

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031323\  
 Data File : VX034437.D  
 Acq On : 13 Mar 2023 16:59  
 Operator : JC/MD  
 Sample : 01879-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20230308

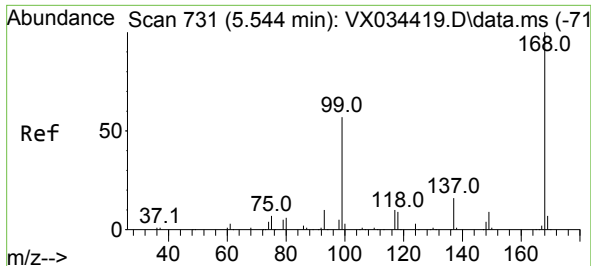
Quant Time: Mar 14 02:27:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 13 10:29:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 264490   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 453640   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 406014   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 181021   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 175731   | 45.671    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 91.340%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 142192   | 47.474    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 94.940%  |
| 50) Toluene-d8                | 8.647  | 98    | 548296   | 49.038    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 98.080%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 209135   | 46.307    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 92.620%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.295  | 50    | 356      | Below Cal | #      | 42       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101   | 1271     | 0.432     | ug/l # | 91       |
| 11) Tert butyl alcohol        | 2.941  | 59    | 382      | 0.477     | ug/l # | 73       |
| 16) Acetone                   | 2.374  | 43    | 1401     | 0.773     | ug/l   | 91       |
| 31) Cyclohexane               | 5.550  | 56    | 5697     | 1.056     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 21694    | 4.716     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 26990    | 5.898     | ug/l # | 16       |
| 39) Methylcyclohexane         | 7.129  | 83    | 1214     | 0.221     | ug/l # | 1        |
| 44) Trichloroethene           | 7.129  | 130   | 94336    | 26.979    | ug/l   | 98       |
| 49) 1,4-Dioxane               | 7.671  | 88    | 1070     | 12.441    | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 2620     | 0.530     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275  | 129   | 5967     | 1.721     | ug/l # | 10       |
| 64) Tetrachloroethene         | 9.275  | 164   | 6571     | 2.409     | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 105854   | 25.467    | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 105854   | 68.897    | ug/l # | 8        |
| -----                         |        |       |          |           |        |          |

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

Quant Time: Mar 14 02:27:18 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 13 10:29:32 2023  
Response via : Initial Calibration

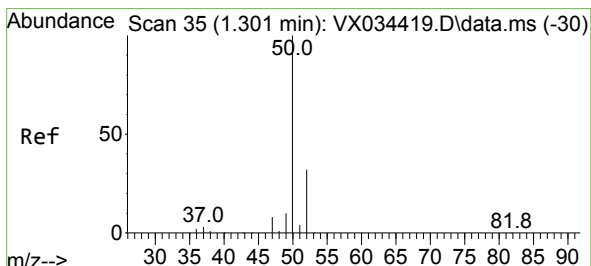
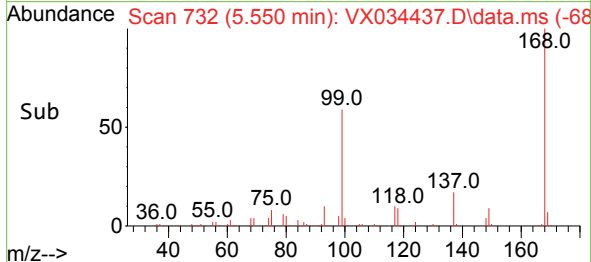
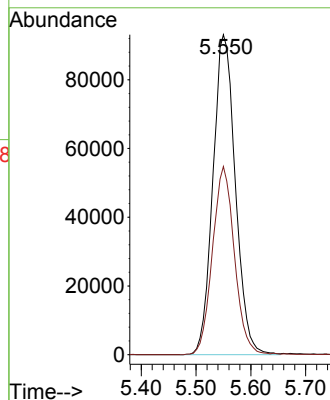
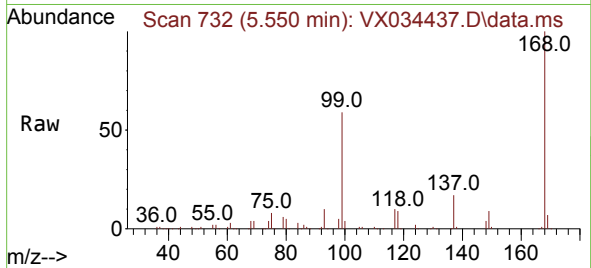




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

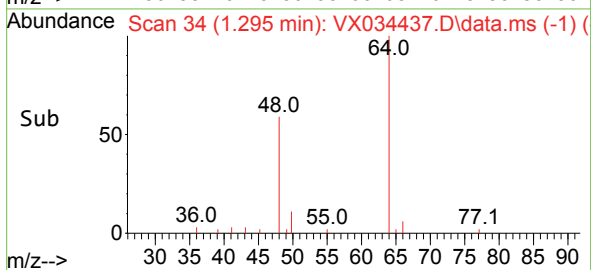
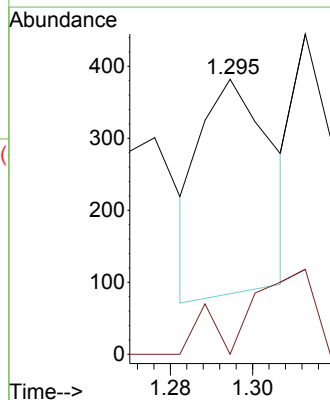
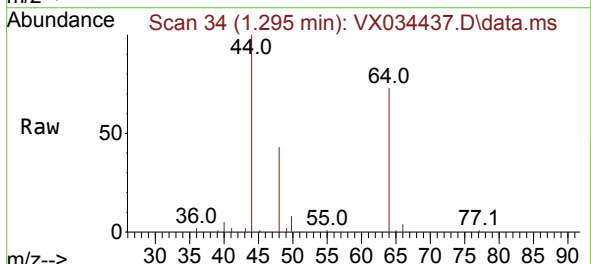
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20230308

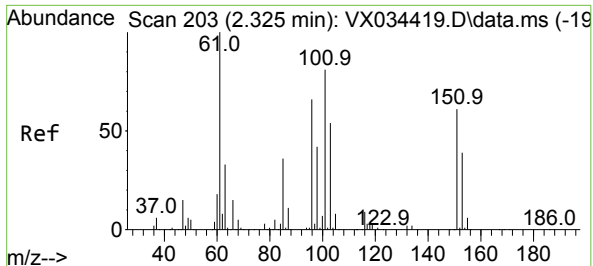
Tgt Ion:168 Resp: 264490  
Ion Ratio Lower Upper  
168 100  
99 58.8 45.7 68.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.295 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Tgt Ion: 50 Resp: 356  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.9 38.9#

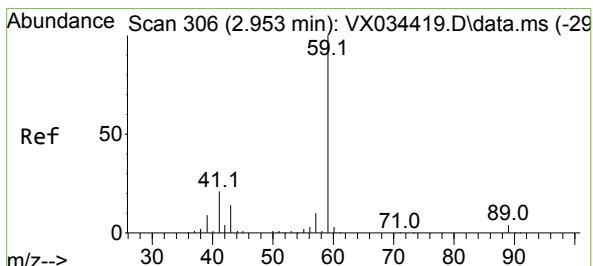
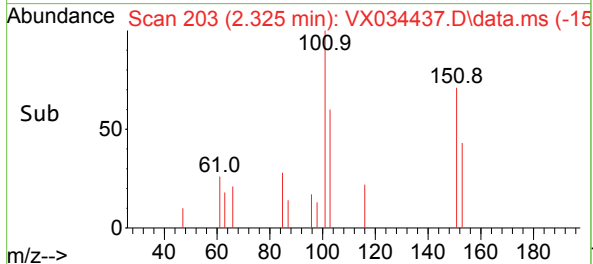
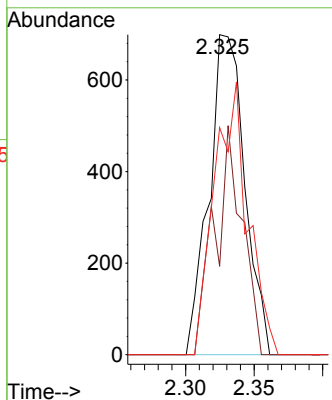
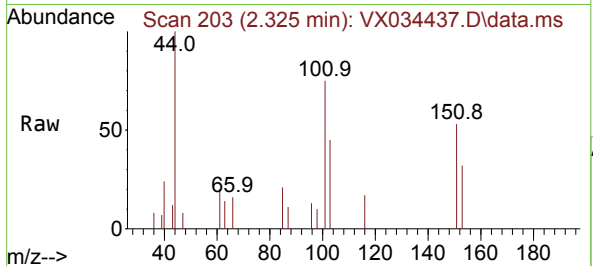




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.432 ug/l  
RT: 2.325 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

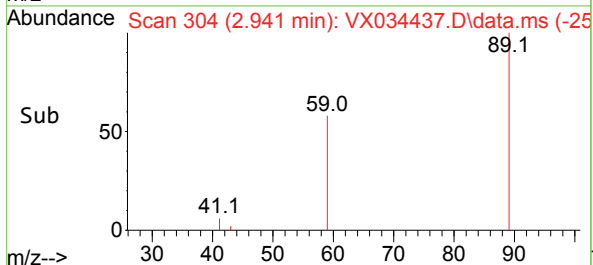
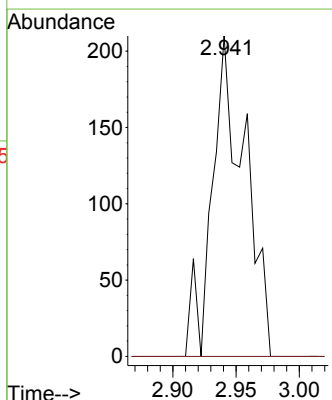
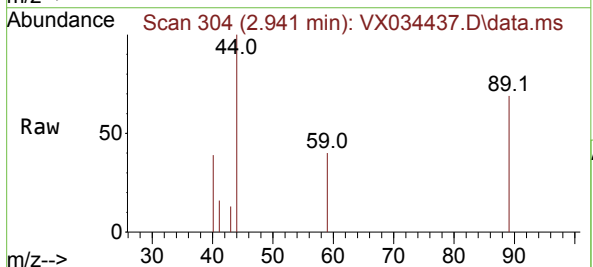
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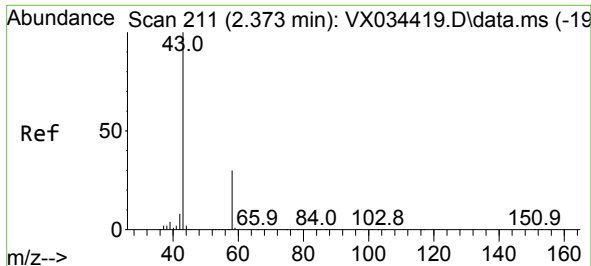
Tgt Ion:101 Resp: 1271  
Ion Ratio Lower Upper  
101 100  
85 55.3 35.4 53.2#  
151 79.4 60.2 90.4



#11  
Tert butyl alcohol  
Concen: 0.477 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.012 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Tgt Ion: 59 Resp: 382  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#

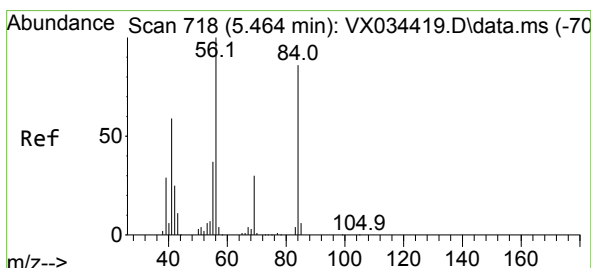
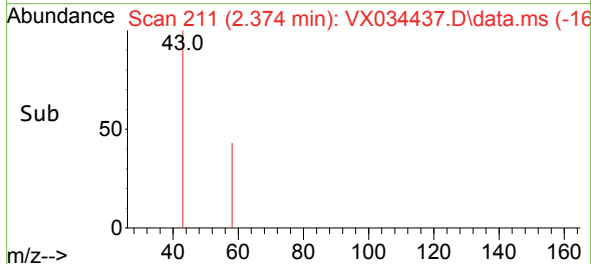
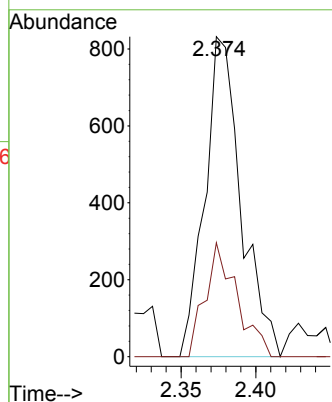
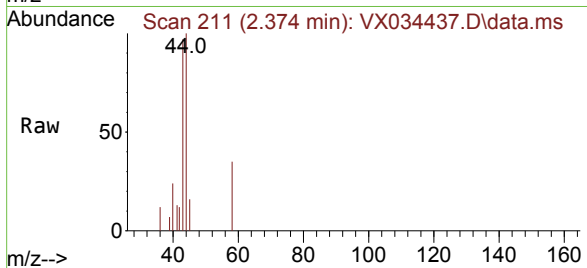




#16  
Acetone  
Concen: 0.773 ug/l  
RT: 2.374 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

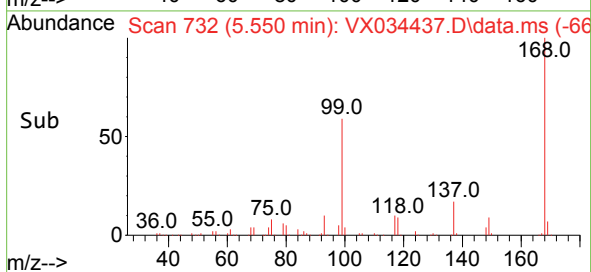
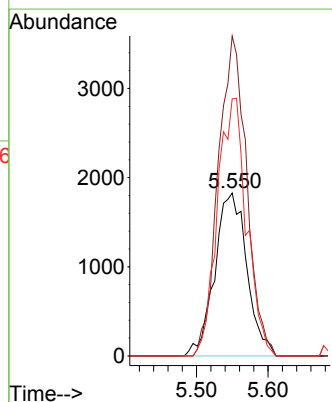
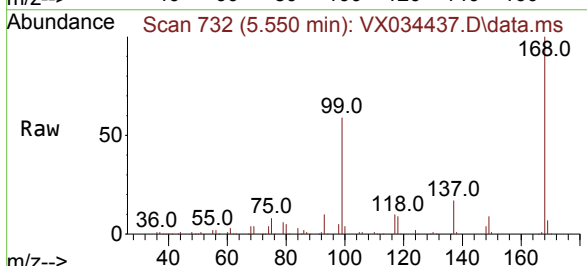
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20230308

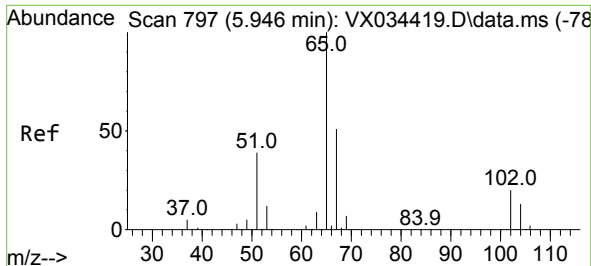
Tgt Ion: 43 Resp: 1401  
Ion Ratio Lower Upper  
43 100  
58 35.6 24.7 37.1



#31  
Cyclohexane  
Concen: 1.056 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.085 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Tgt Ion: 56 Resp: 5697  
Ion Ratio Lower Upper  
56 100  
69 196.4 23.7 35.5#  
84 157.9 68.5 102.7#

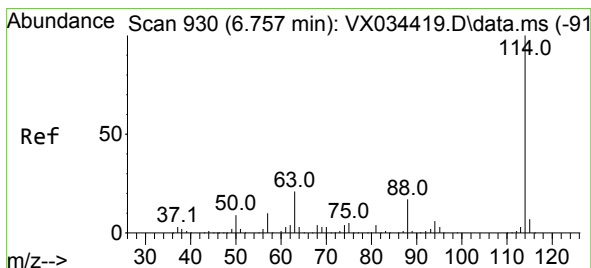
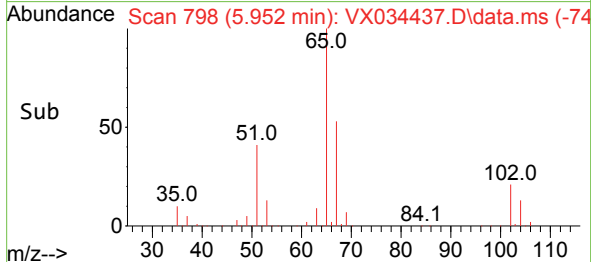
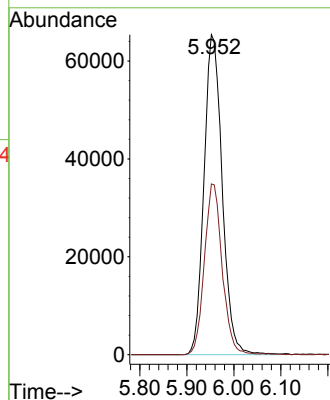
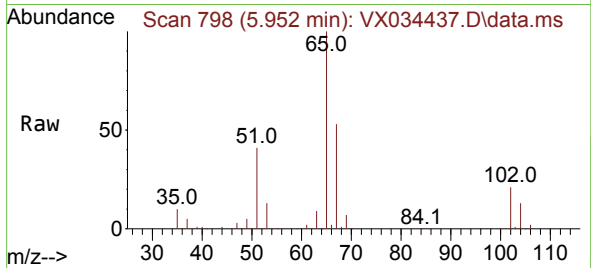




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.671 ug/l  
 RT: 5.952 min Scan# 797  
 Delta R.T. 0.006 min  
 Lab File: VX034437.D  
 Acq: 13 Mar 2023 16:59

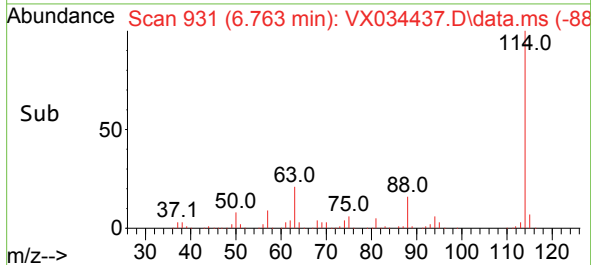
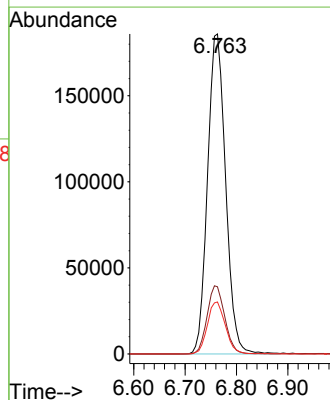
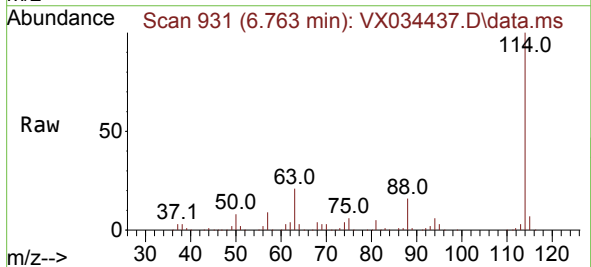
Instrument :  
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 ClientSampleId :  
 RE108D1-20230308

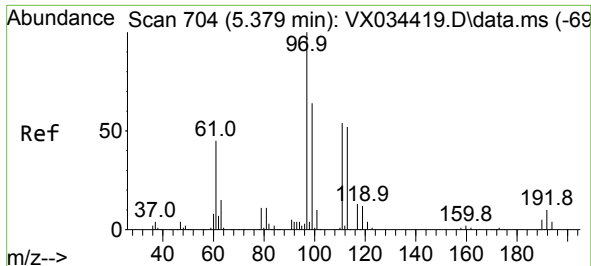
Tgt Ion: 65 Resp: 175731  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 104.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.006 min  
 Lab File: VX034437.D  
 Acq: 13 Mar 2023 16:59

Tgt Ion: 114 Resp: 453640  
 Ion Ratio Lower Upper  
 114 100  
 63 21.0 0.0 42.2  
 88 16.3 0.0 33.2

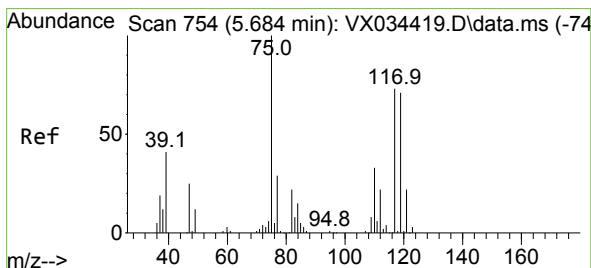
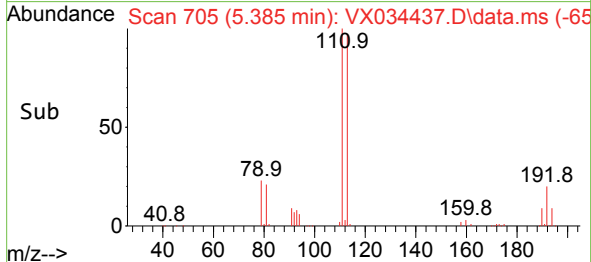
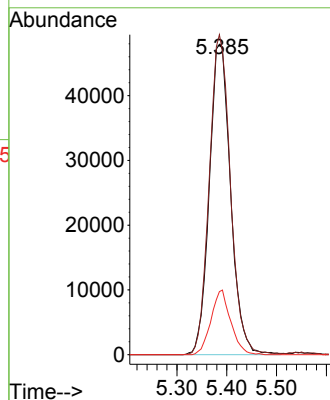
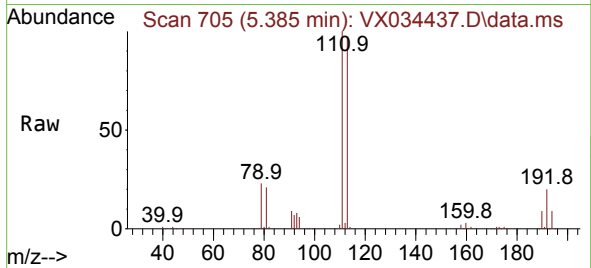




#35  
Dibromofluoromethane  
Concen: 47.474 ug/l  
RT: 5.385 min Scan# 704  
Delta R.T. 0.006 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

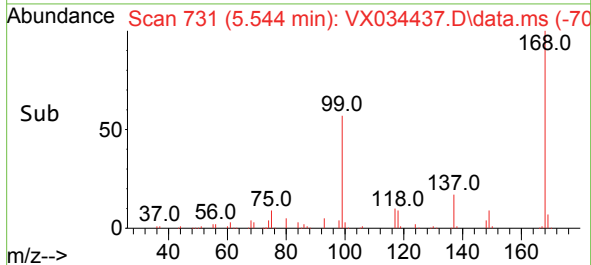
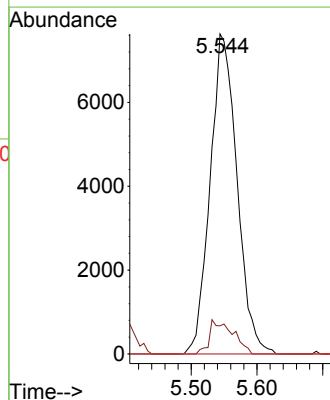
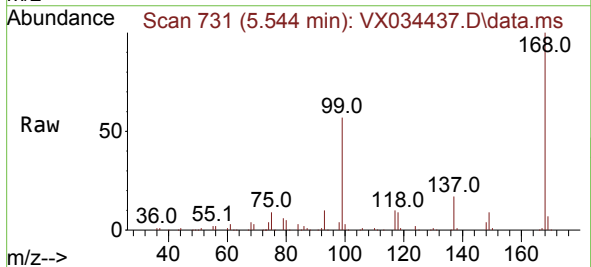
Instrument :  
MSVOA\_X  
ClientSampleId :  
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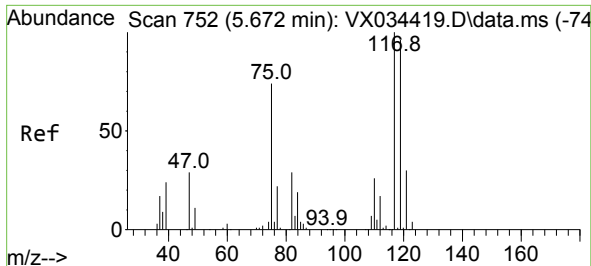
Tgt Ion:113 Resp: 142192  
Ion Ratio Lower Upper  
113 100  
111 102.5 83.7 125.5  
192 19.3 15.4 23.2



#36  
1,1-Dichloropropene  
Concen: 4.716 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.140 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

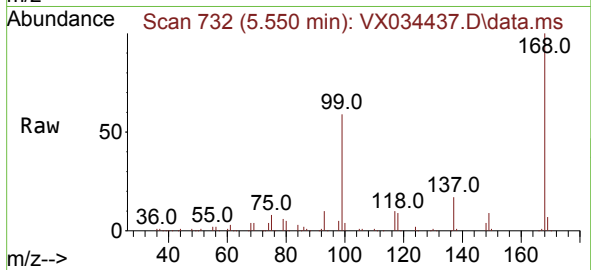
Tgt Ion: 75 Resp: 21694  
Ion Ratio Lower Upper  
75 100  
110 9.3 17.5 52.5#  
77 0.0 24.3 36.5#



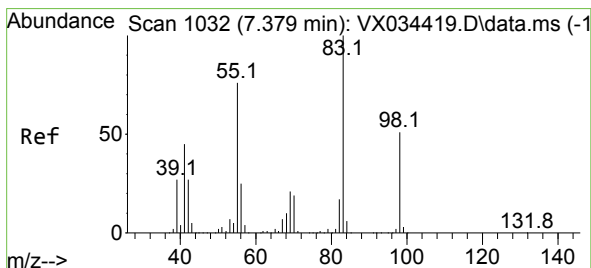
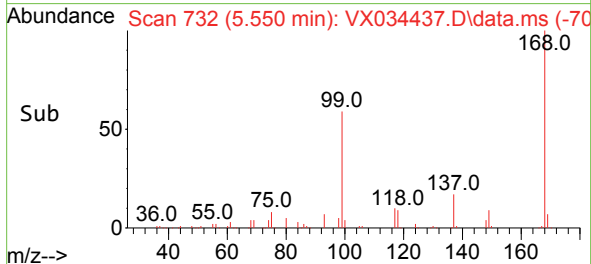
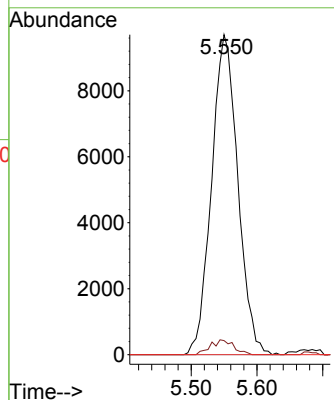


#38  
Carbon Tetrachloride  
Concen: 5.898 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Instrument :  
MSVOA\_X  
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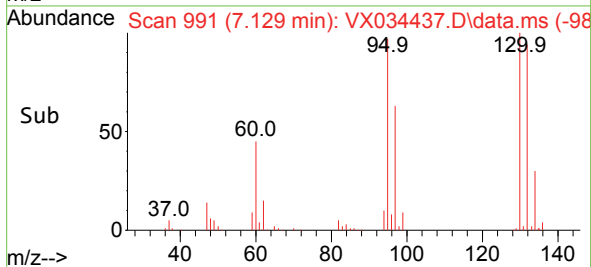
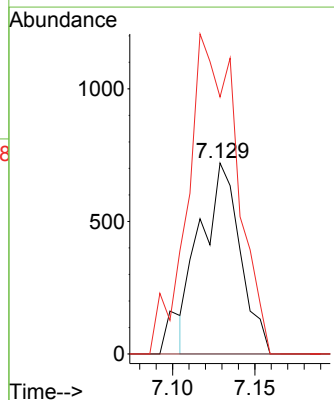
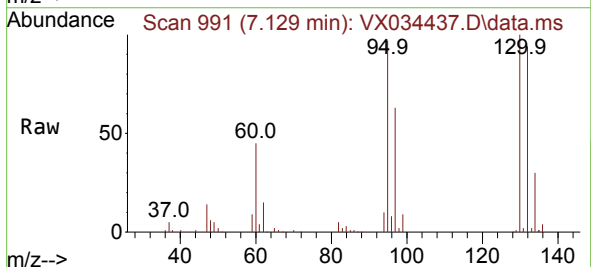


Tgt Ion:117 Resp: 26990  
Ion Ratio Lower Upper  
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119 4.4 76.6 114.8#  
121 0.0 23.8 35.6#

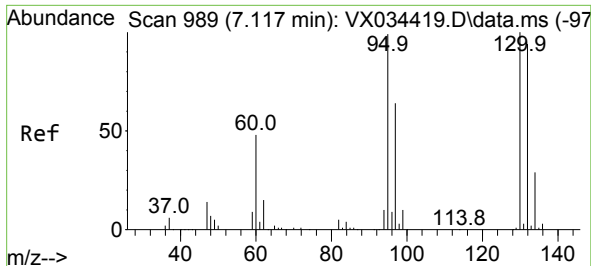


#39  
Methylcyclohexane  
Concen: 0.221 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.250 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Tgt Ion: 83 Resp: 1214  
Ion Ratio Lower Upper  
83 100  
55 0.0 60.5 90.7#  
98 134.6 40.4 60.6#



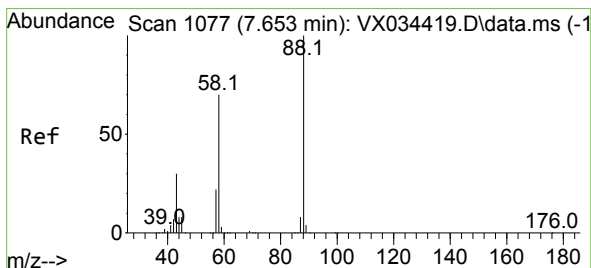
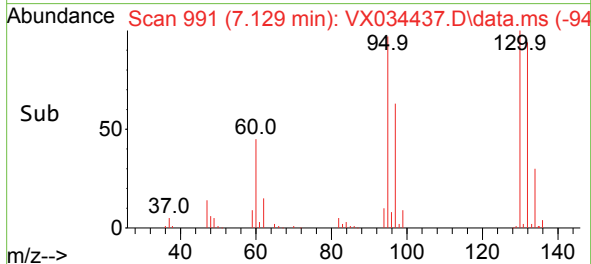
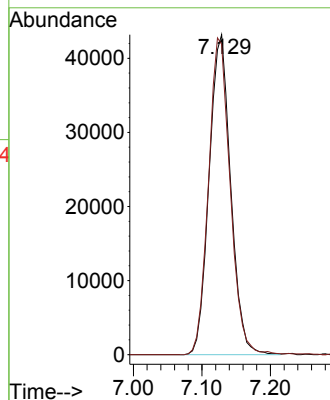
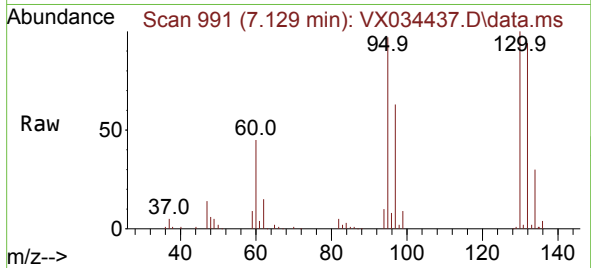




#44  
Trichloroethene  
Concen: 26.979 ug/l  
RT: 7.129 min Scan# 94  
Delta R.T. 0.012 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

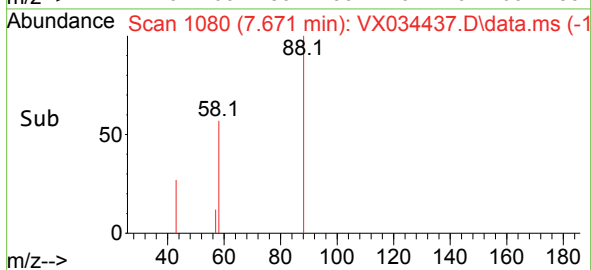
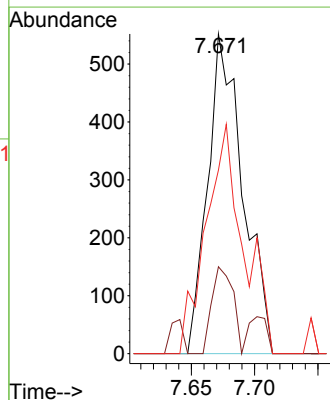
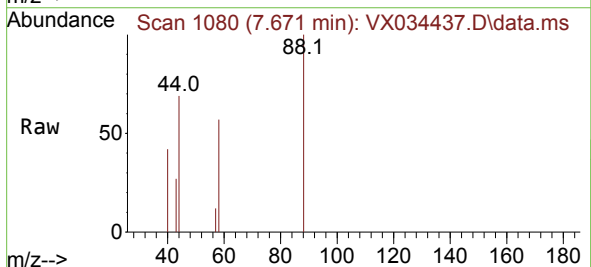
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20230308

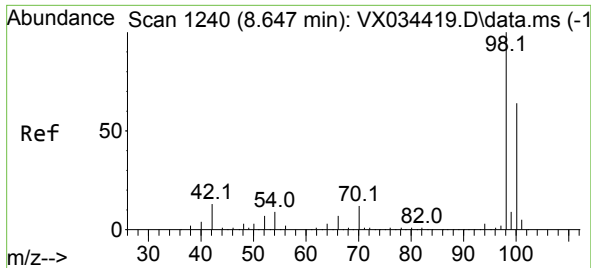
Tgt Ion:130 Resp: 94336  
Ion Ratio Lower Upper  
130 100  
95 97.0 0.0 198.4



#49  
1,4-Dioxane  
Concen: 12.441 ug/l  
RT: 7.671 min Scan# 1080  
Delta R.T. 0.018 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Tgt Ion: 88 Resp: 1070  
Ion Ratio Lower Upper  
88 100  
43 16.2 27.7 41.5#  
58 76.4 56.8 85.2

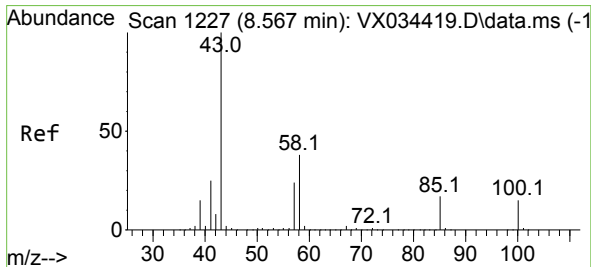
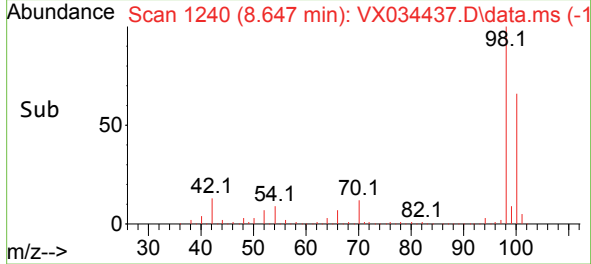
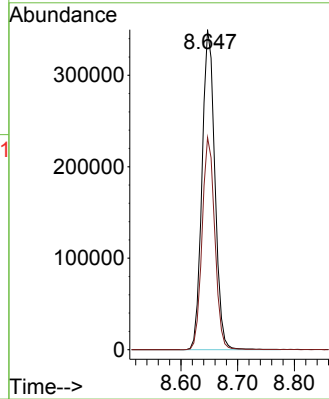
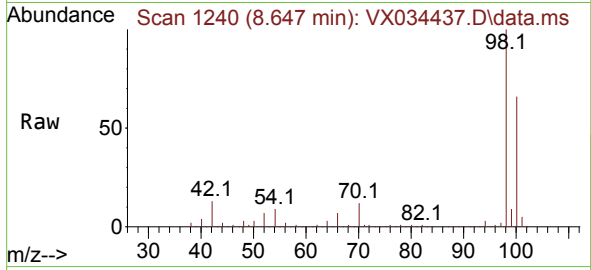




#50  
Toluene-d8  
Concen: 49.038 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

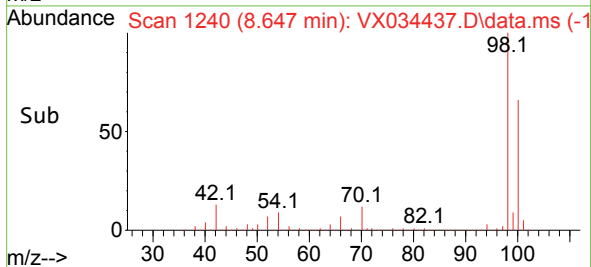
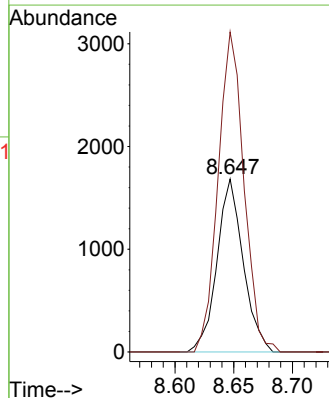
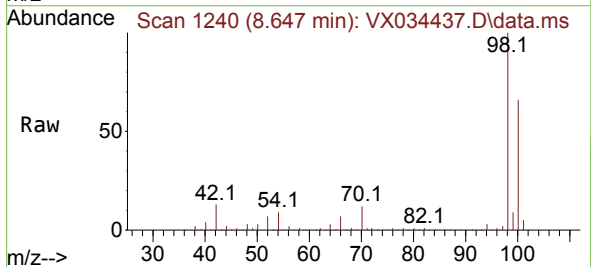
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20230308

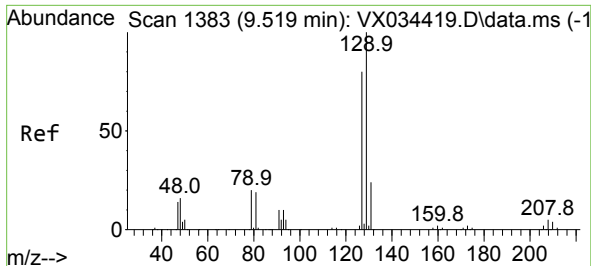
Tgt Ion: 98 Resp: 548296  
Ion Ratio Lower Upper  
98 100  
100 65.6 52.5 78.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.530 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.079 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Tgt Ion: 43 Resp: 2620  
Ion Ratio Lower Upper  
43 100  
58 182.0 30.6 46.0#

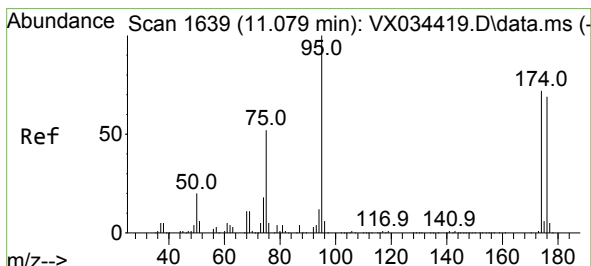
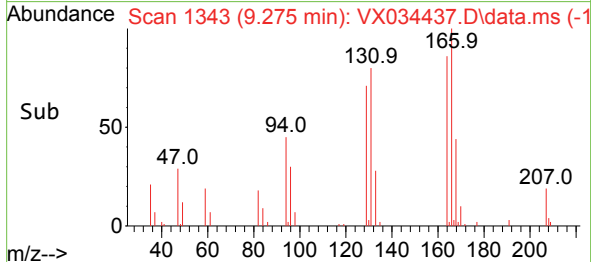
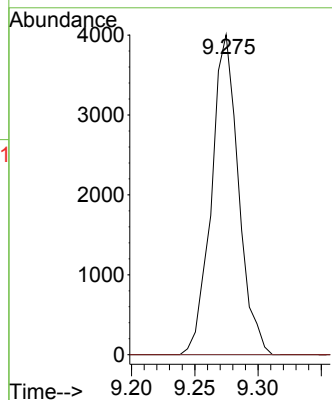
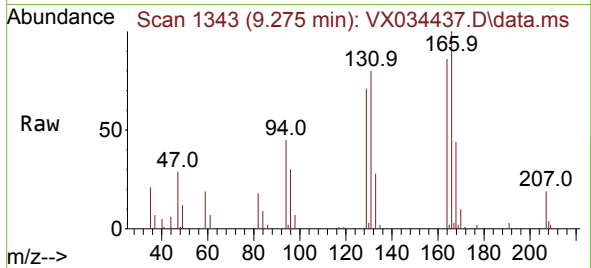




#60  
Dibromochloromethane  
Concen: 1.721 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

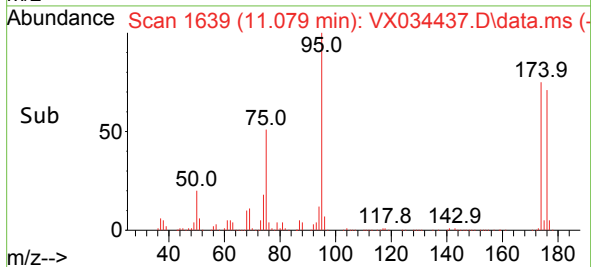
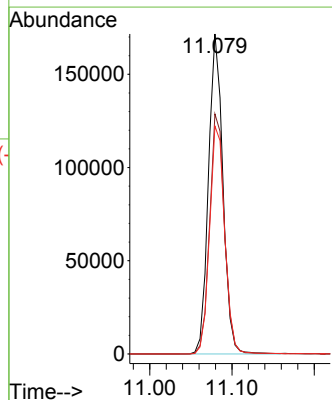
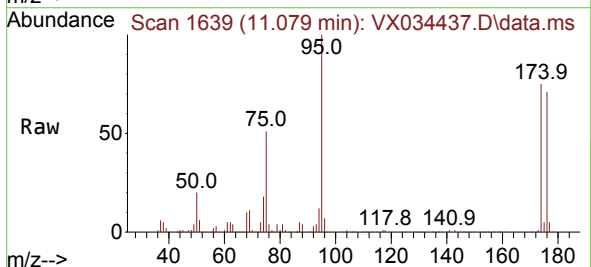
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20230308

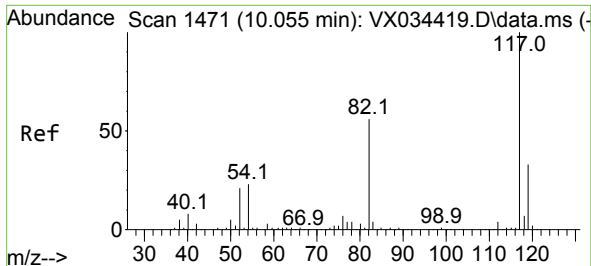
Tgt Ion:129 Resp: 5967  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 117.0#



#62  
4-Bromofluorobenzene  
Concen: 46.307 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Tgt Ion: 95 Resp: 209135  
Ion Ratio Lower Upper  
95 100  
174 77.4 0.0 147.4  
176 74.7 0.0 140.6

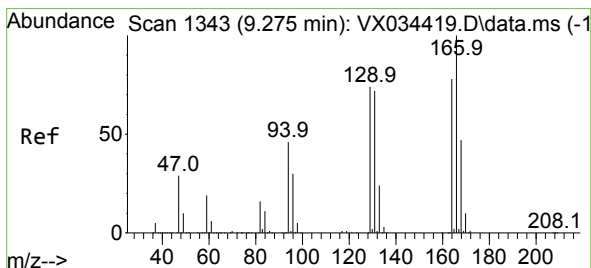
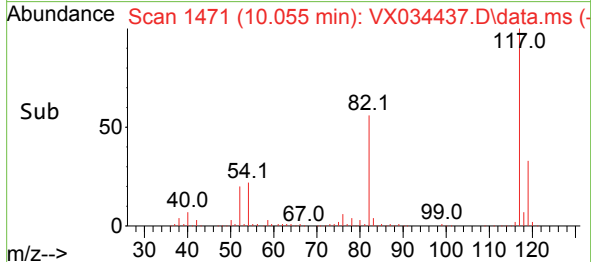
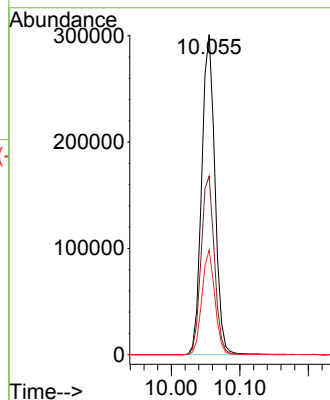
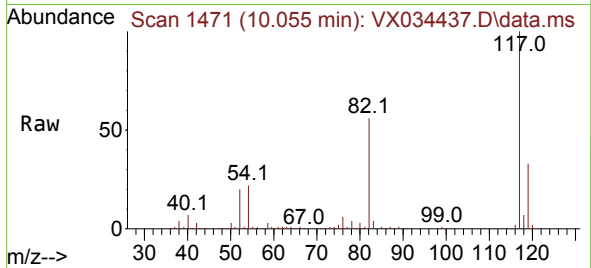




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

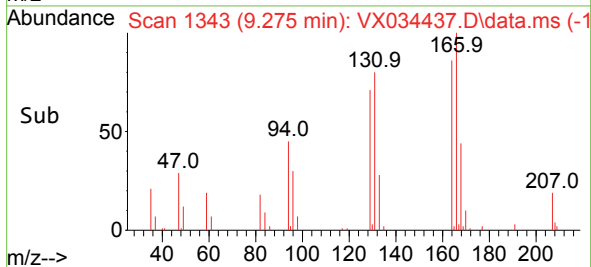
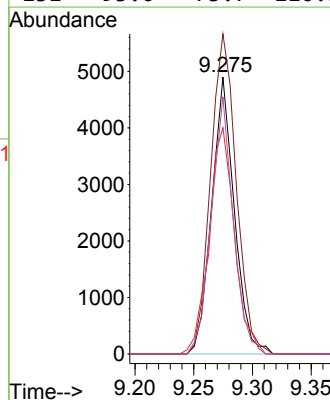
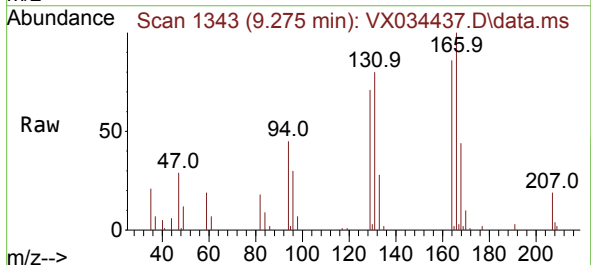
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20230308

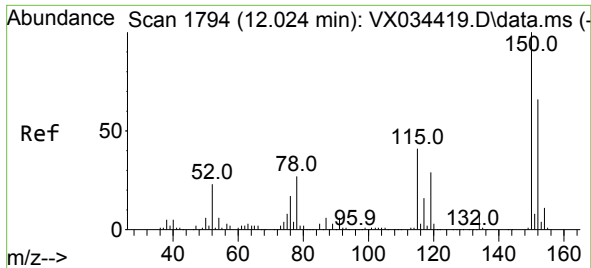
Tgt Ion:117 Resp: 406014  
Ion Ratio Lower Upper  
117 100  
82 55.8 45.0 67.4  
119 32.7 26.0 39.0



#64  
Tetrachloroethene  
Concen: 2.409 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.000 min  
Lab File: VX034437.D  
Acq: 13 Mar 2023 16:59

Tgt Ion:164 Resp: 6571  
Ion Ratio Lower Upper  
164 100  
166 115.6 102.7 154.1  
129 81.8 75.6 113.4  
131 93.0 73.7 110.5

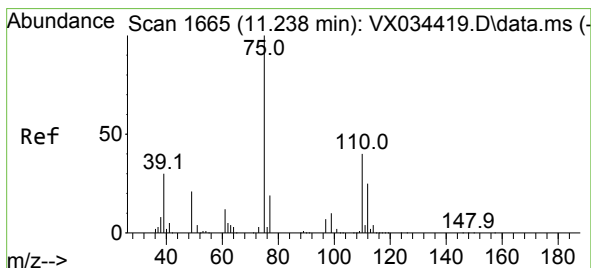
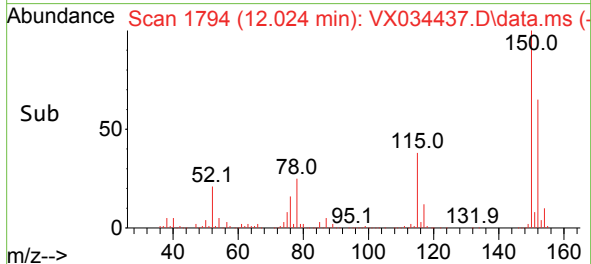
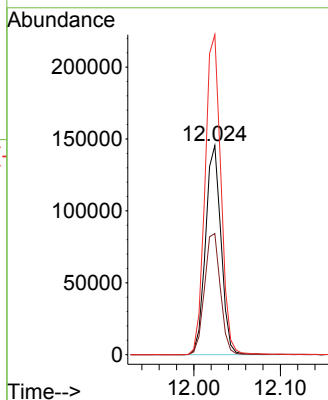
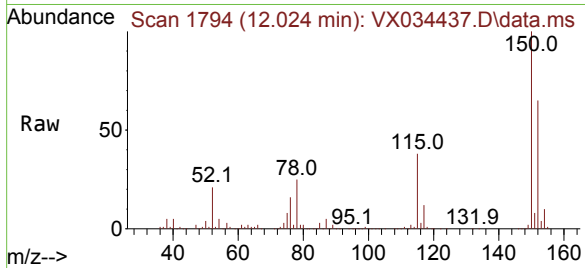




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX034437.D  
 Acq: 13 Mar 2023 16:59

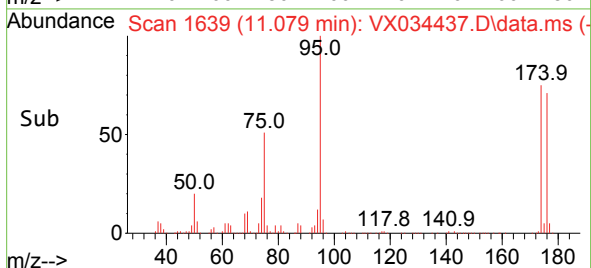
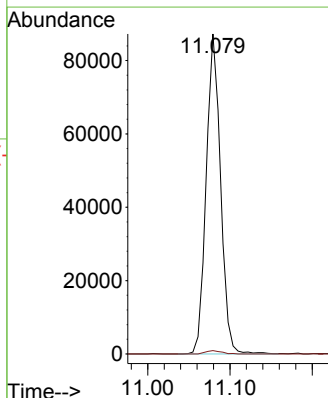
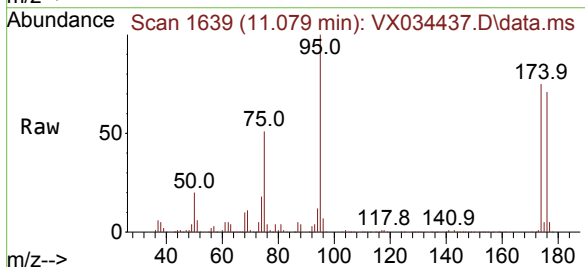
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20230308

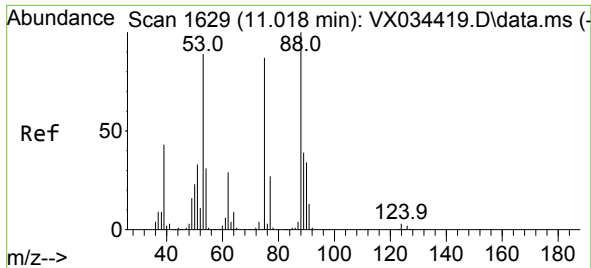
Tgt Ion:152 Resp: 181021  
 Ion Ratio Lower Upper  
 152 100  
 115 59.5 45.0 135.0  
 150 156.4 0.0 352.4



#76  
 1,2,3-Trichloropropane  
 Concen: 25.467 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX034437.D  
 Acq: 13 Mar 2023 16:59

Tgt Ion: 75 Resp: 105854  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 21.6 64.8#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.897 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX034437.D  
 Acq: 13 Mar 2023 16:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20230308

Tgt Ion: 75 Resp: 105854  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 82.6 124.0#  
 89 0.0 36.9 55.3#

