

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111722\  
 Data File : VX032906.D  
 Acq On : 17 Nov 2022 17:35  
 Operator : JC/MD  
 Sample : N5671-12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20221115

Quant Time: Nov 18 01:42:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 08:28:06 2022  
 Response via : Initial Calibration

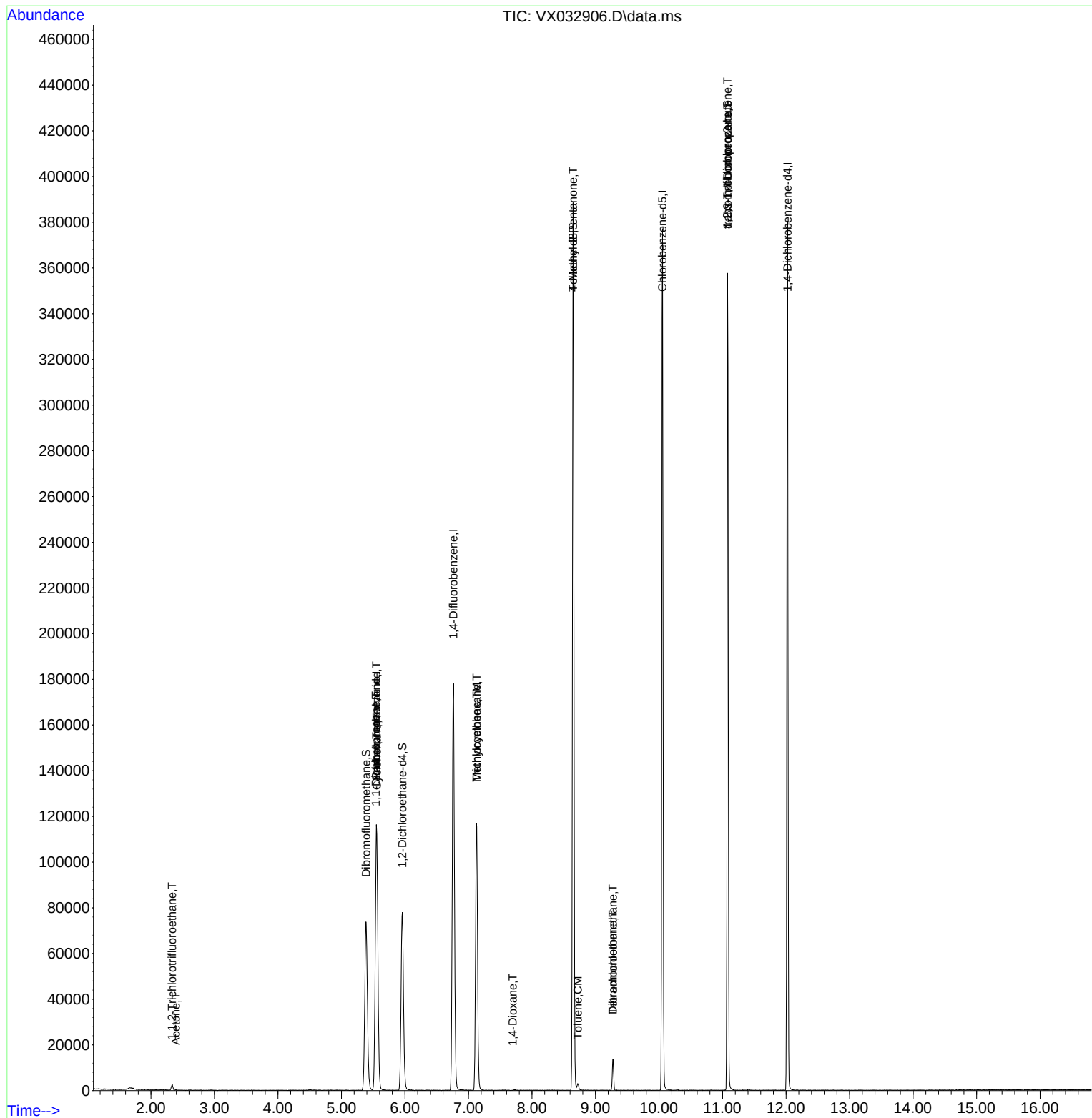
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 110175   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 182097   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 167147   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 78176    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 79177    | 51.721   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 103.440% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 63350    | 48.771   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 97.540%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 228922   | 50.684   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 101.360% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 88636    | 50.239   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 100.480% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 1060     | 0.896    | ug/l       | 98       |
| 16) Acetone                   | 2.392  | 43    | 234      | 0.421    | ug/l #     | 45       |
| 31) Cyclohexane               | 5.556  | 56    | 2368     | 1.276    | ug/l #     | 22       |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 8824     | 4.878    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 10983    | 5.475    | ug/l #     | 16       |
| 39) Methylcyclohexane         | 7.129  | 83    | 531      | 0.248    | ug/l #     | 1        |
| 44) Trichloroethene           | 7.129  | 130   | 45836    | 31.810   | ug/l       | 97       |
| 49) 1,4-Dioxane               | 7.696  | 88    | 43       | 1.511    | ug/l #     | 65       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 973      | 0.534    | ug/l #     | 1        |
| 52) Toluene                   | 8.720  | 92    | 1142     | 0.342    | ug/l       | 88       |
| 60) Dibromochloromethane      | 9.275  | 129   | 2413     | 1.571    | ug/l #     | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 2639     | 2.157    | ug/l       | 92       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 47947    | 27.568   | ug/l #     | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 47947    | 87.722   | ug/l #     | 6        |
| -----                         |        |       |          |          |            |          |

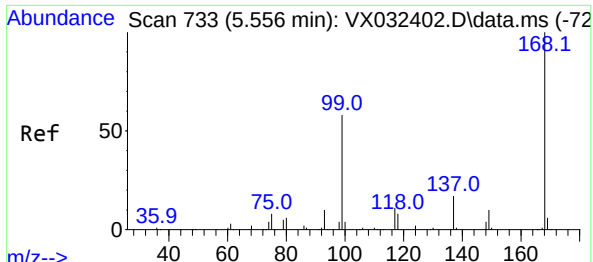
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111722\  
Data File : VX032906.D  
Acq On : 17 Nov 2022 17:35  
Operator : JC/MD  
Sample : N5671-12  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115

Quant Time: Nov 18 01:42:05 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 27 08:28:06 2022  
Response via : Initial Calibration

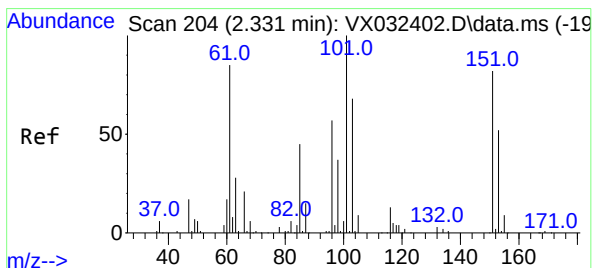
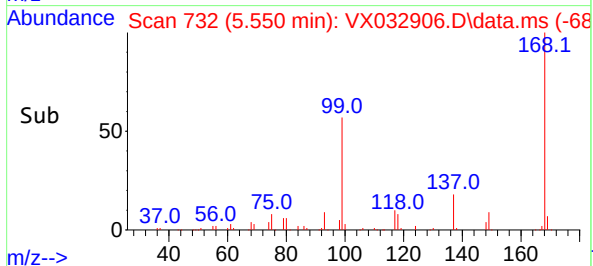
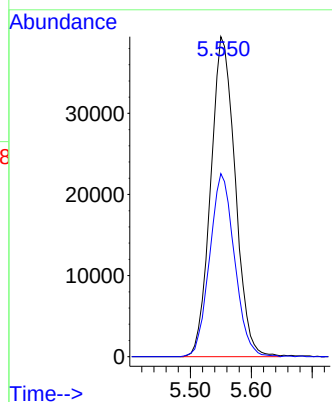
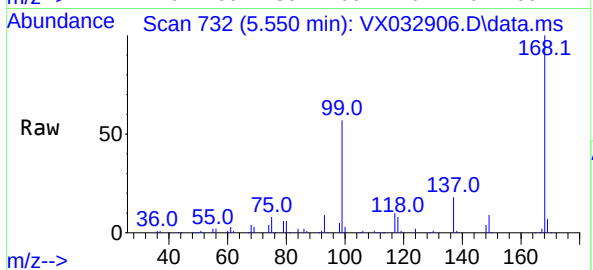




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

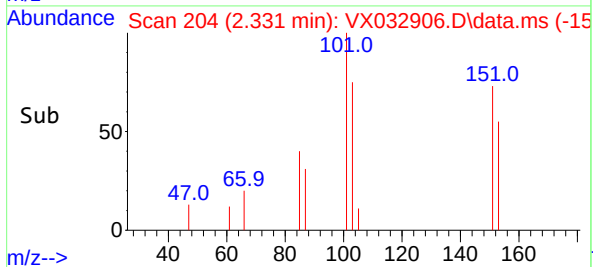
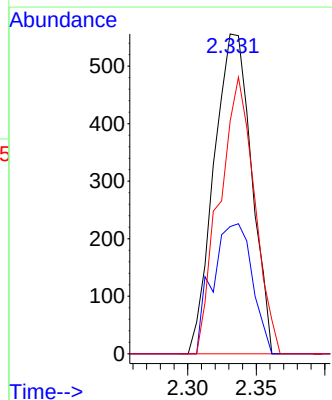
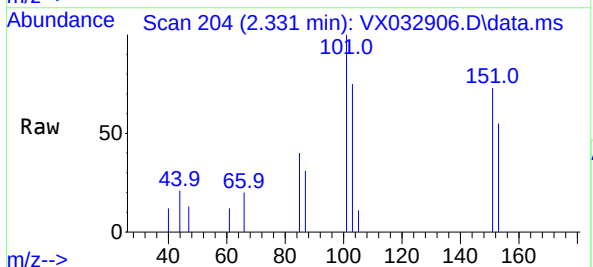
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115

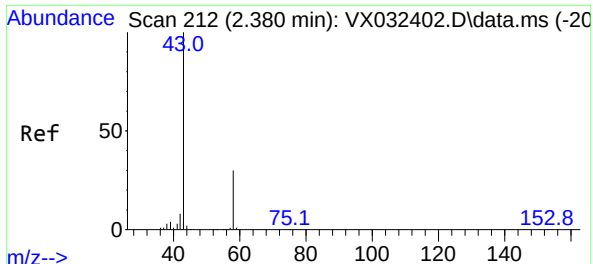
Tgt Ion:168 Resp: 110175  
Ion Ratio Lower Upper  
168 100  
99 57.2 46.1 69.1



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.896 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.000 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Tgt Ion:101 Resp: 1060  
Ion Ratio Lower Upper  
101 100  
85 42.8 37.0 55.4  
151 80.7 64.4 96.6

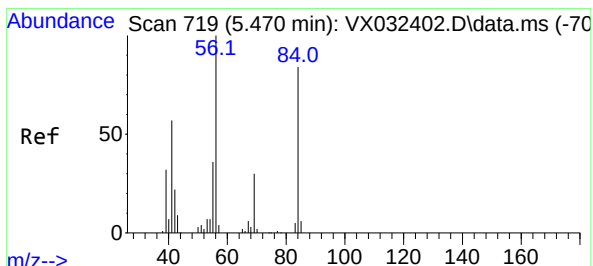
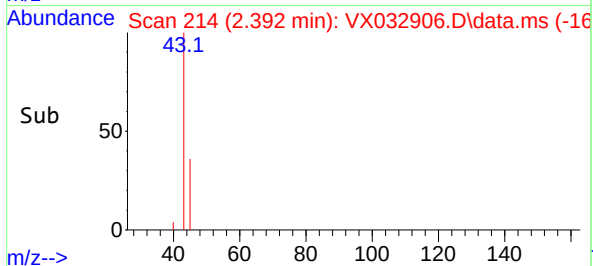
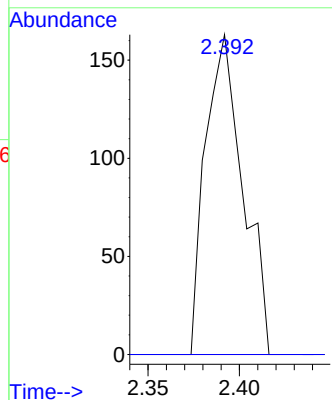
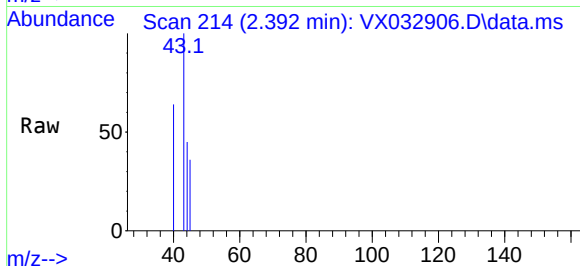




#16  
Acetone  
Concen: 0.421 ug/l  
RT: 2.392 min Scan# 212  
Delta R.T. 0.012 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

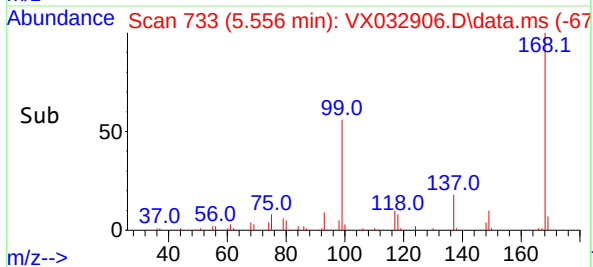
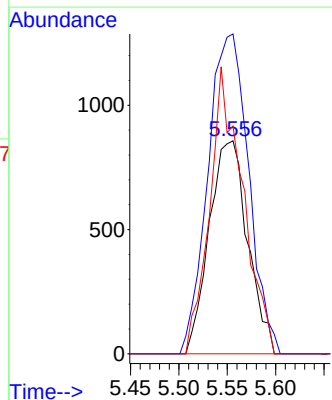
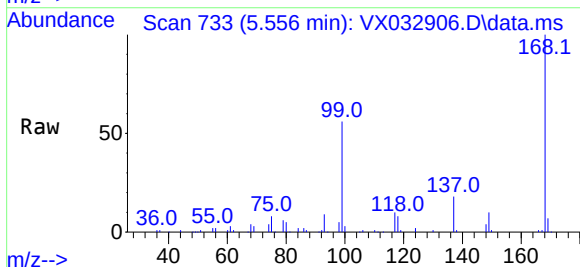
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115

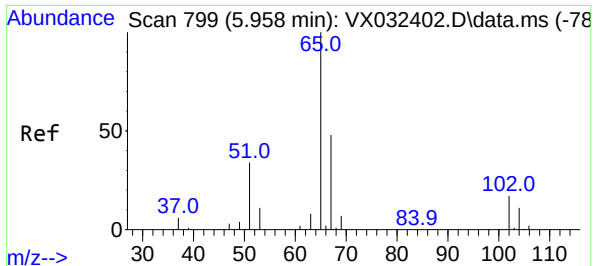
Tgt Ion: 43 Resp: 234  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.8 35.8#



#31  
Cyclohexane  
Concen: 1.276 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.085 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Tgt Ion: 56 Resp: 2368  
Ion Ratio Lower Upper  
56 100  
69 150.2 24.1 36.1#  
84 107.0 66.9 100.3#





#33

1,2-Dichloroethane-d4

Concen: 51.721 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX032906.D

Acq: 17 Nov 2022 17:35

Instrument :

MSVOA\_X

ClientSampleId :

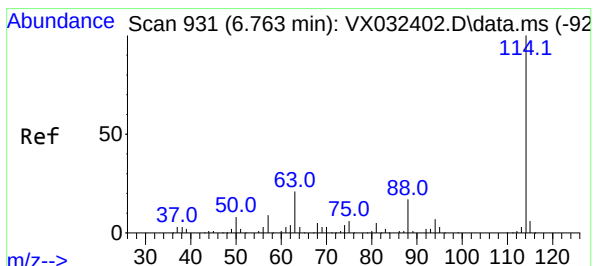
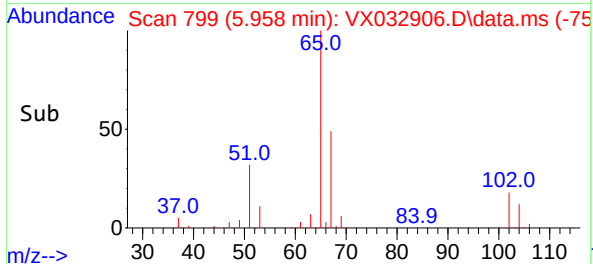
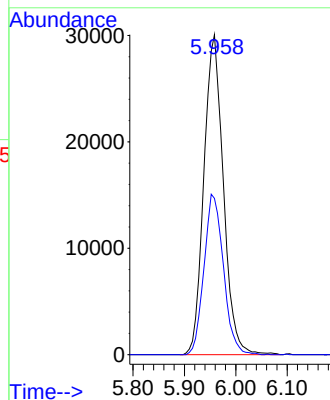
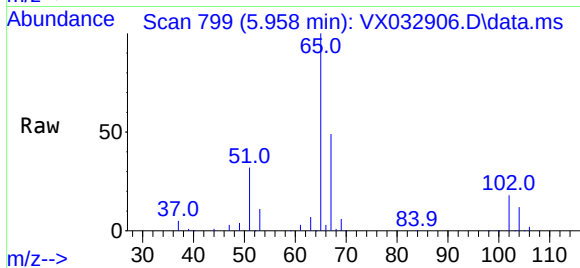
RE108D1-20221115

Tgt Ion: 65 Resp: 79177

Ion Ratio Lower Upper

65 100

67 50.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX032906.D

Acq: 17 Nov 2022 17:35

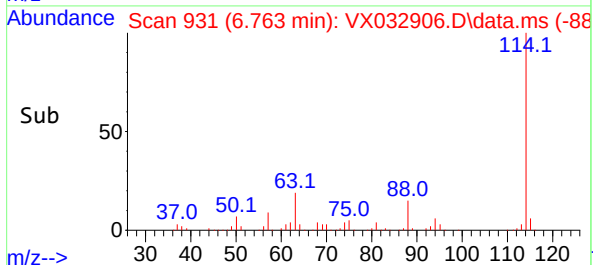
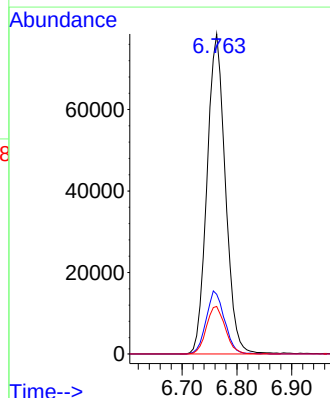
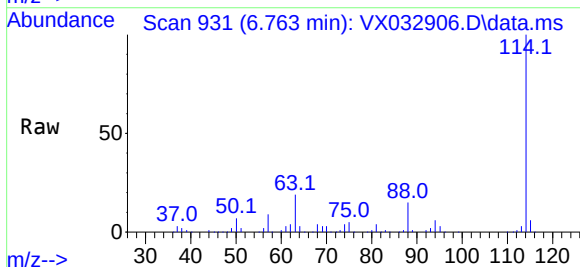
Tgt Ion: 114 Resp: 182097

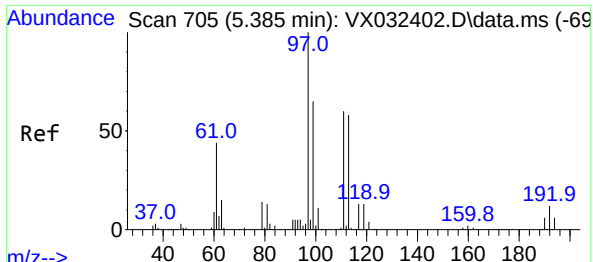
Ion Ratio Lower Upper

114 100

63 18.7 0.0 41.6

88 14.8 0.0 33.4

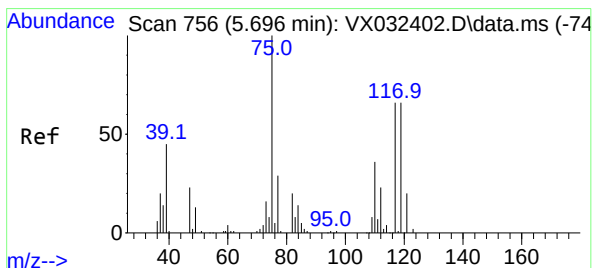
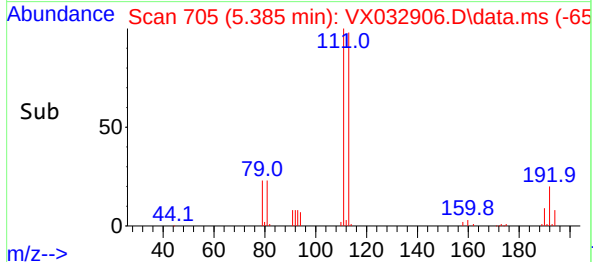
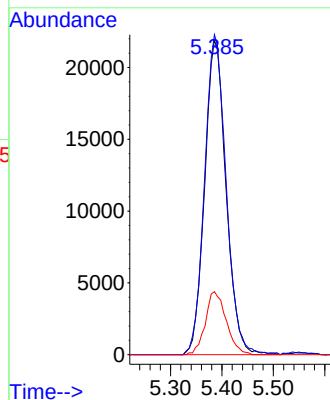
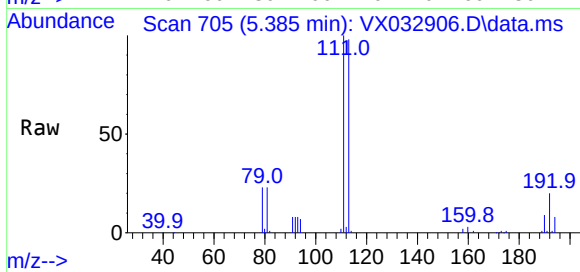




#35  
Dibromofluoromethane  
Concen: 48.771 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

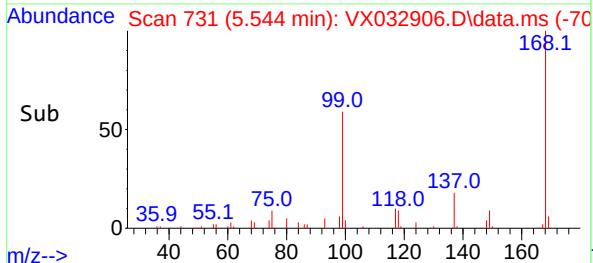
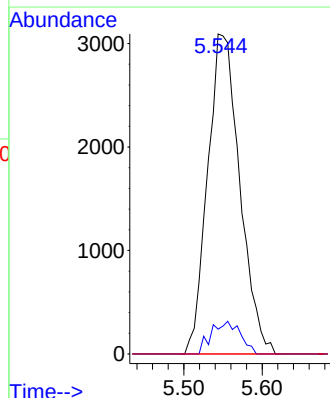
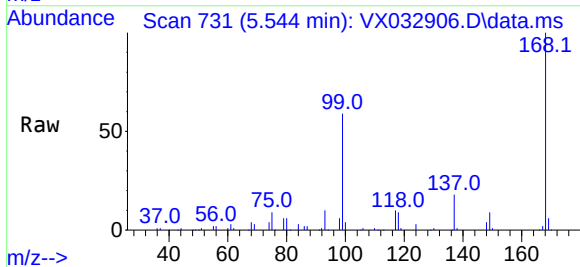
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115

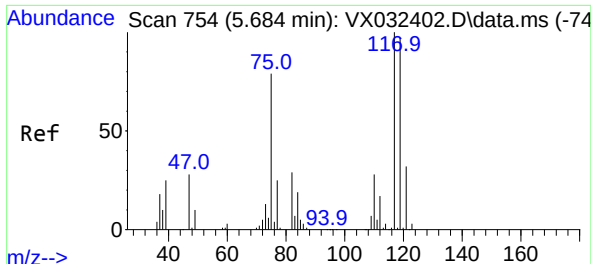
Tgt Ion:113 Resp: 63350  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.4 123.6  
192 19.5 15.4 23.2



#36  
1,1-Dichloropropene  
Concen: 4.878 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.152 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

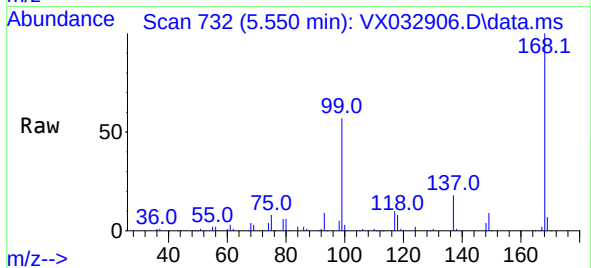
Tgt Ion: 75 Resp: 8824  
Ion Ratio Lower Upper  
75 100  
110 9.2 18.4 55.2#  
77 0.0 24.5 36.7#



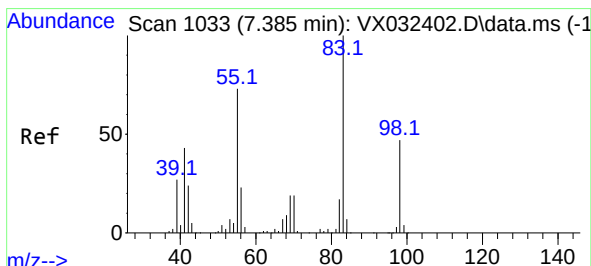
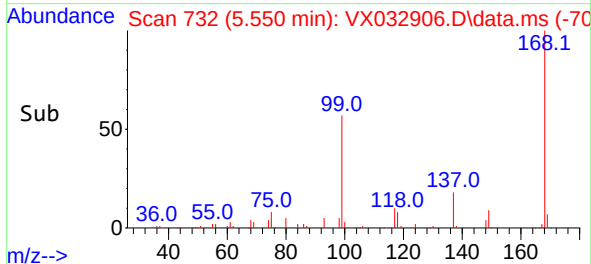
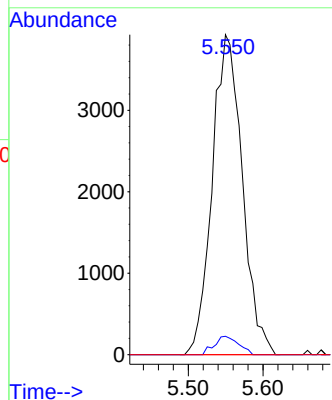


#38  
Carbon Tetrachloride  
Concen: 5.475 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115

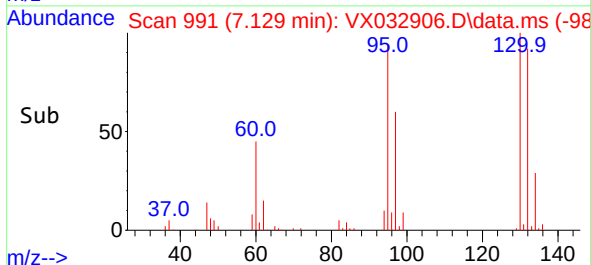
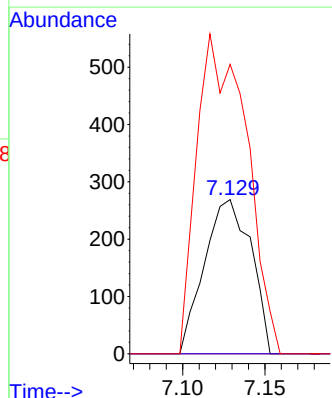
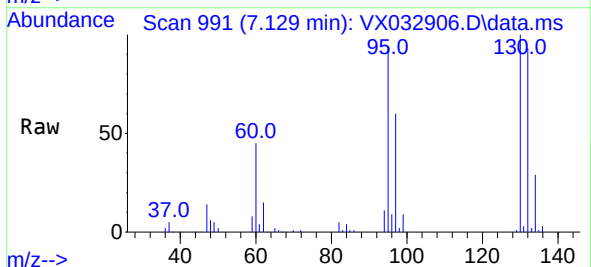


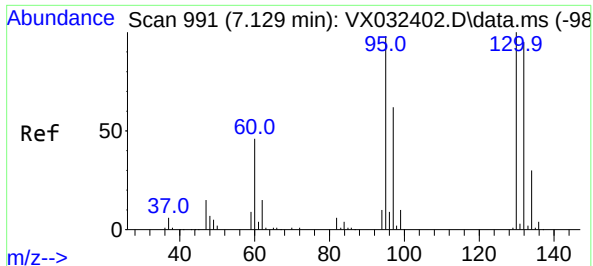
Tgt Ion:117 Resp: 10983  
Ion Ratio Lower Upper  
117 100  
119 5.7 77.2 115.8#  
121 0.0 25.8 38.6#



#39  
Methylcyclohexane  
Concen: 0.248 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.256 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

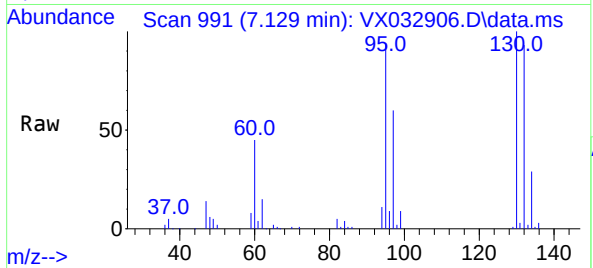
Tgt Ion: 83 Resp: 531  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.4 87.6#  
98 187.7 37.2 55.8#



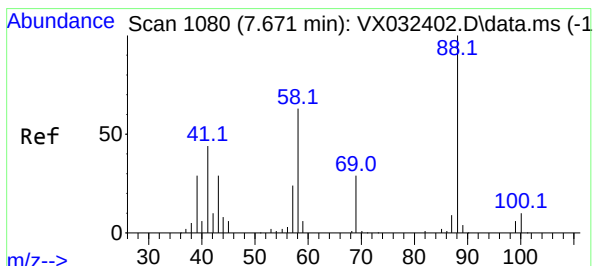
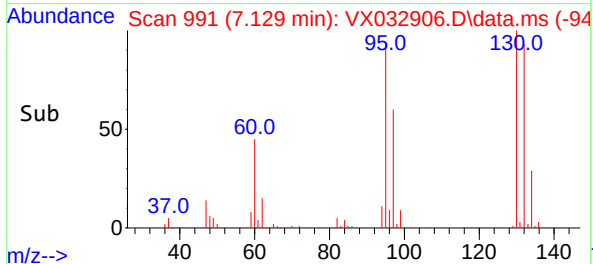
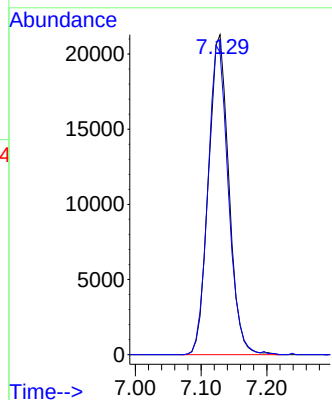


#44  
Trichloroethene  
Concen: 31.810 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.000 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115

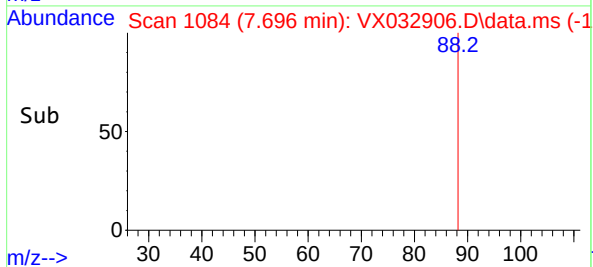
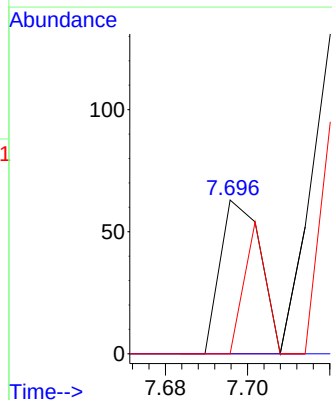
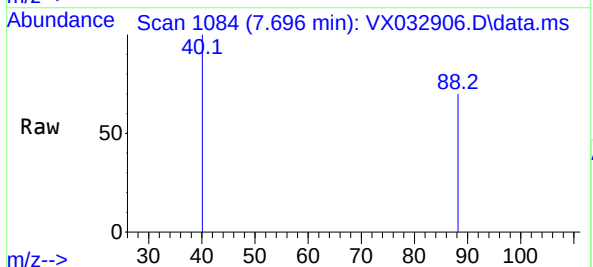


Tgt Ion:130 Resp: 45836  
Ion Ratio Lower Upper  
130 100  
95 94.4 0.0 195.2

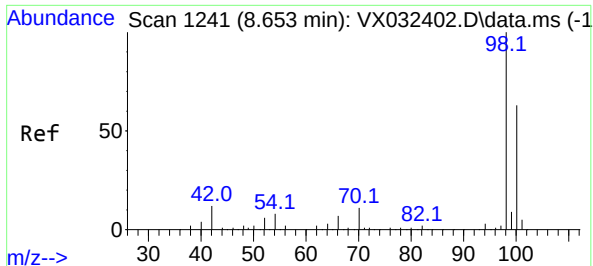


#49  
1,4-Dioxane  
Concen: 1.511 ug/l  
RT: 7.696 min Scan# 1084  
Delta R.T. 0.024 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Tgt Ion: 88 Resp: 43  
Ion Ratio Lower Upper  
88 100  
43 0.0 26.6 39.8#  
58 46.5 51.7 77.5#







#50

Toluene-d8

Concen: 50.684 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX032906.D

Acq: 17 Nov 2022 17:35

Instrument :

MSVOA\_X

ClientSampleId :

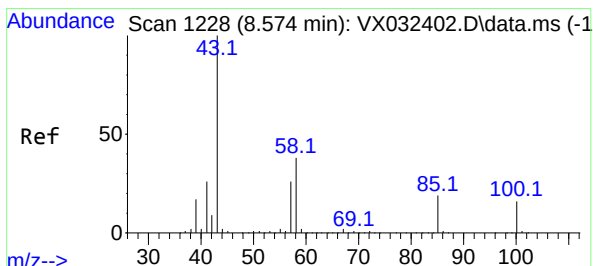
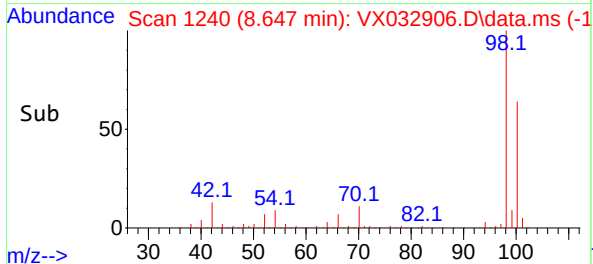
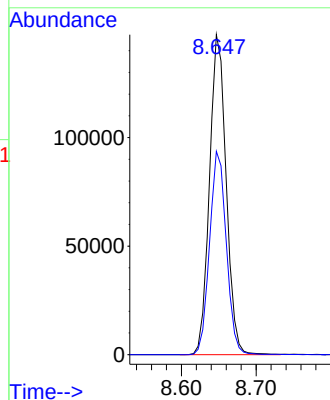
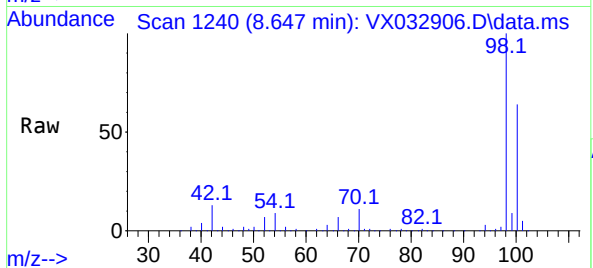
RE108D1-20221115

Tgt Ion: 98 Resp: 228922

Ion Ratio Lower Upper

98 100

100 63.9 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.534 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX032906.D

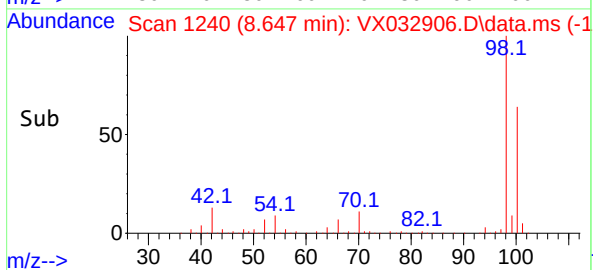
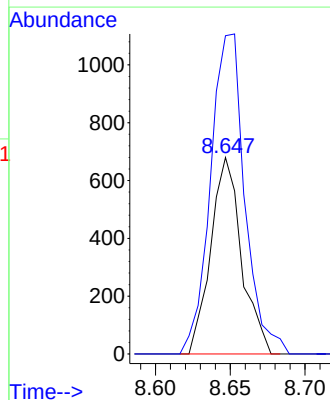
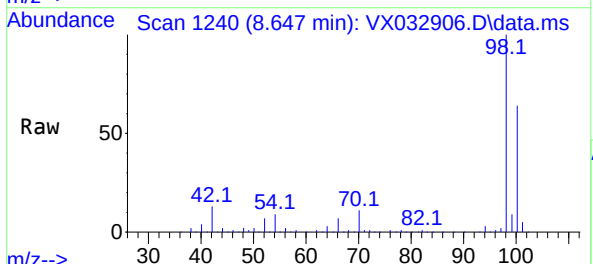
Acq: 17 Nov 2022 17:35

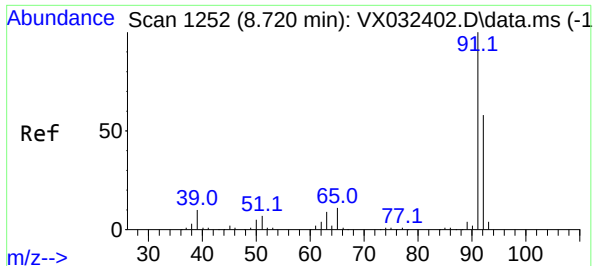
Tgt Ion: 43 Resp: 973

Ion Ratio Lower Upper

43 100

58 182.0 30.9 46.3#

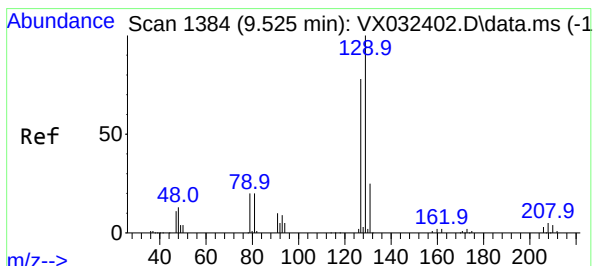
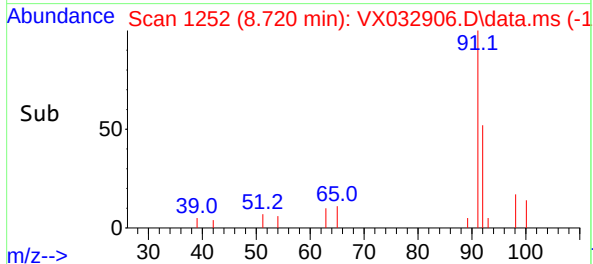
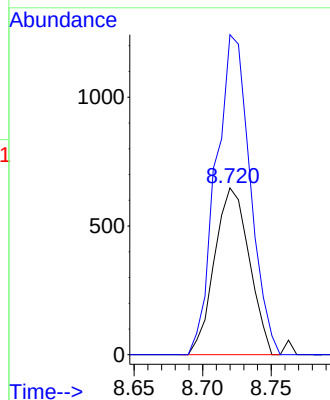
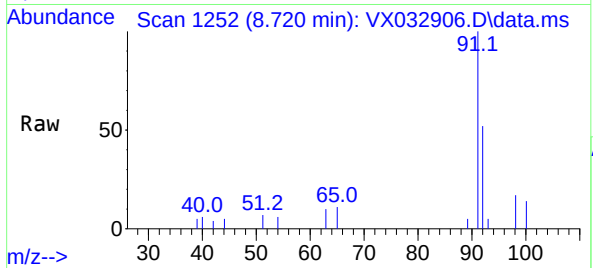




#52  
Toluene  
Concen: 0.342 ug/l  
RT: 8.720 min Scan# 1142  
Delta R.T. 0.000 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

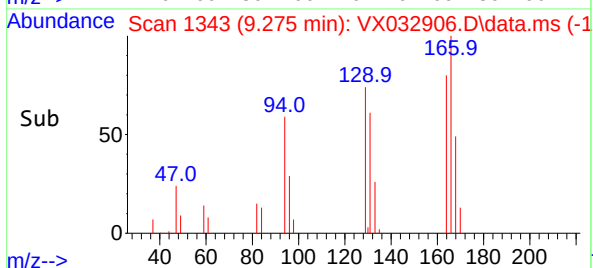
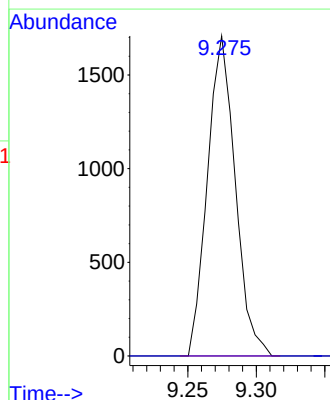
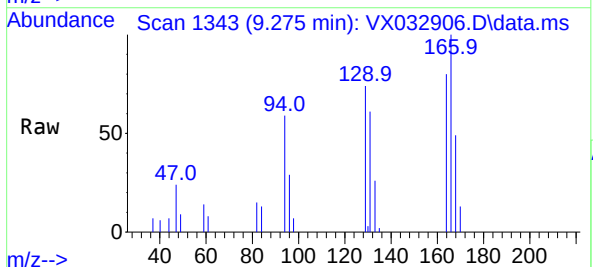
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115

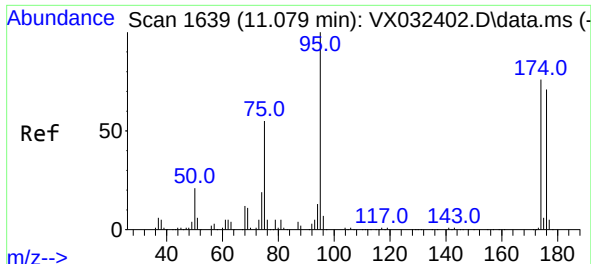
Tgt Ion: 92 Resp: 1142  
Ion Ratio Lower Upper  
92 100  
91 189.4 138.3 207.5



#60  
Dibromochloromethane  
Concen: 1.571 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Tgt Ion: 129 Resp: 2413  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 50.239 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX032906.D

Acq: 17 Nov 2022 17:35

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20221115

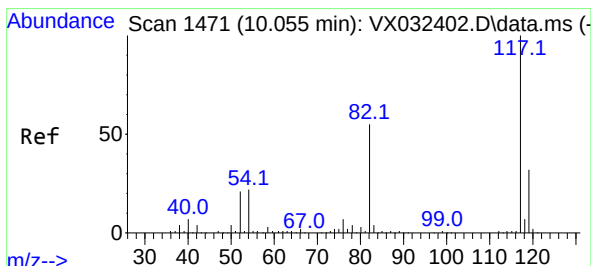
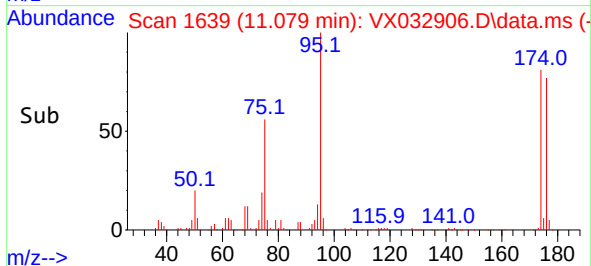
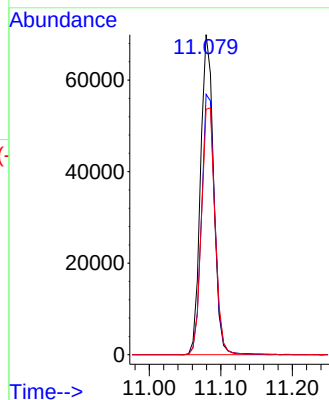
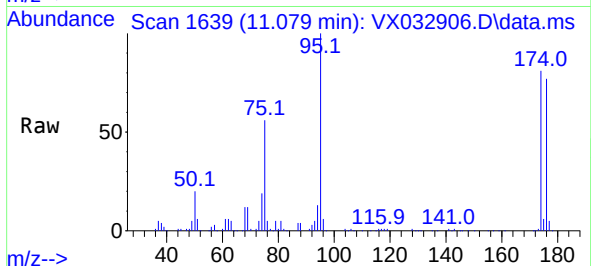
Tgt Ion: 95 Resp: 88636

Ion Ratio Lower Upper

95 100

174 82.6 0.0 164.0

176 80.4 0.0 154.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX032906.D

Acq: 17 Nov 2022 17:35

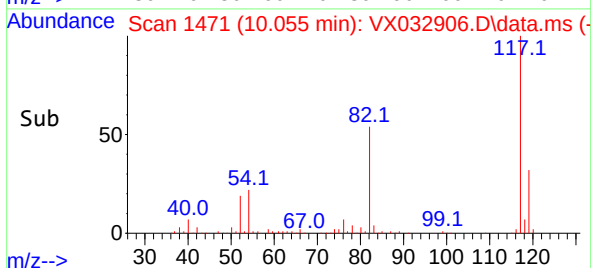
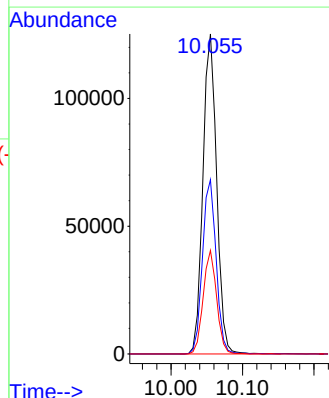
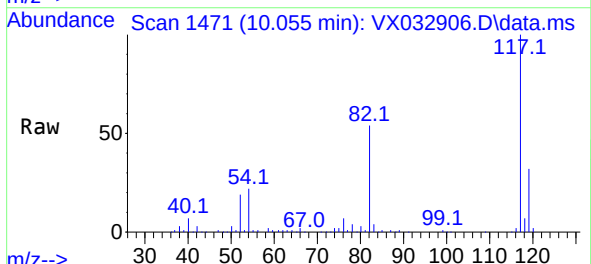
Tgt Ion: 117 Resp: 167147

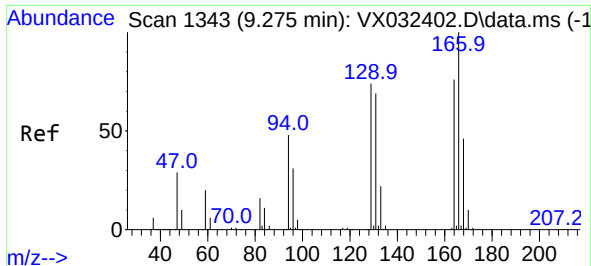
Ion Ratio Lower Upper

117 100

82 54.5 44.3 66.5

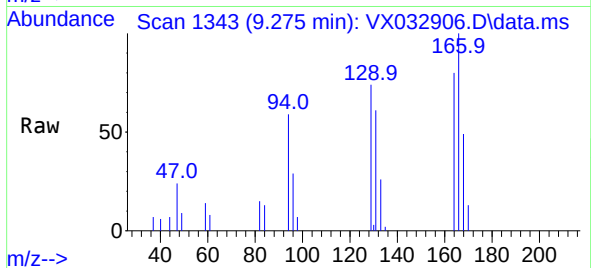
119 32.4 25.7 38.5





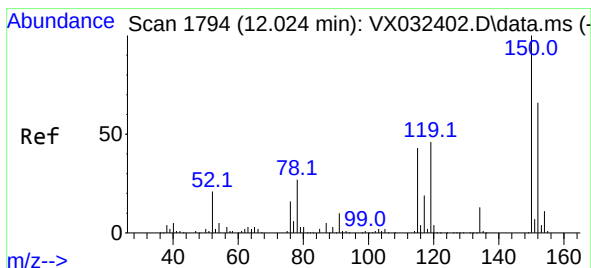
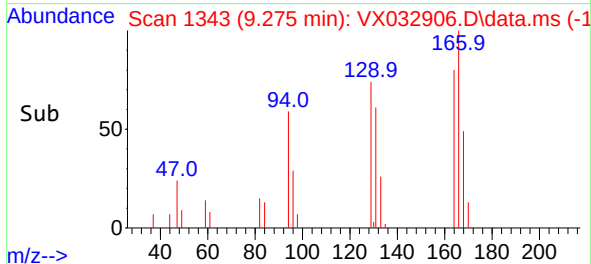
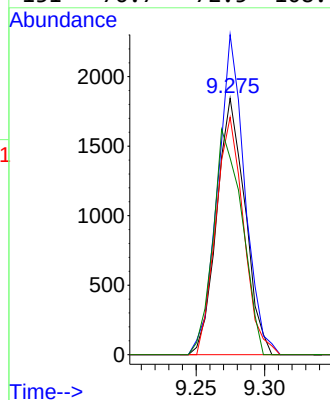
#64  
Tetrachloroethene  
Concen: 2.157 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115



Tgt Ion:164 Resp: 2639

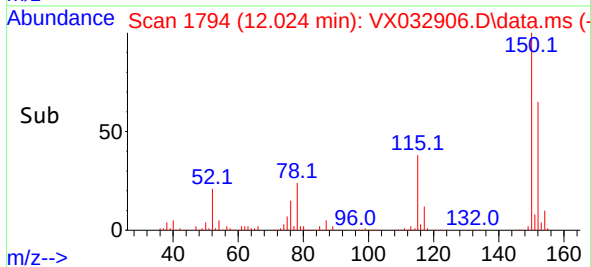
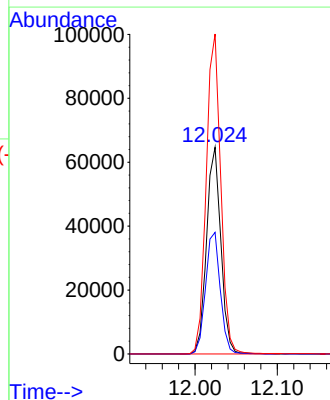
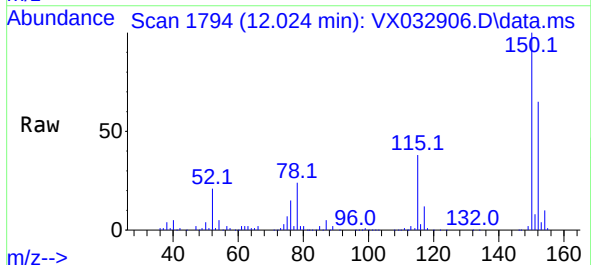
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 124.8 | 105.4 | 158.2 |
| 129 | 92.6  | 78.2  | 117.2 |
| 131 | 76.7  | 72.5  | 108.7 |

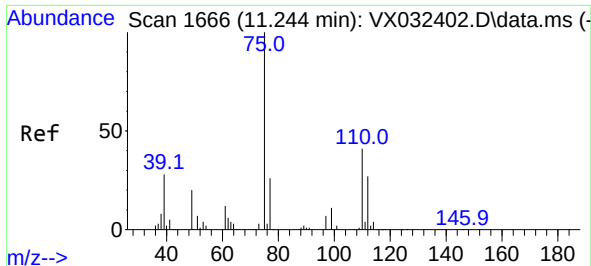


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Tgt Ion:152 Resp: 78176

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 60.7  | 44.0  | 132.0 |
| 150 | 157.2 | 0.0   | 351.8 |

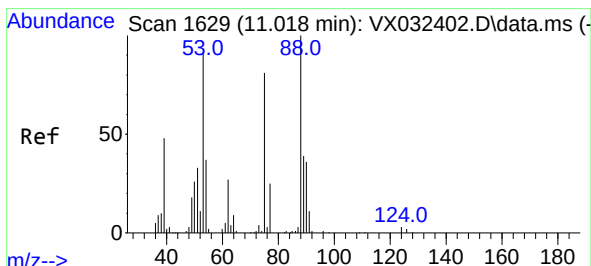
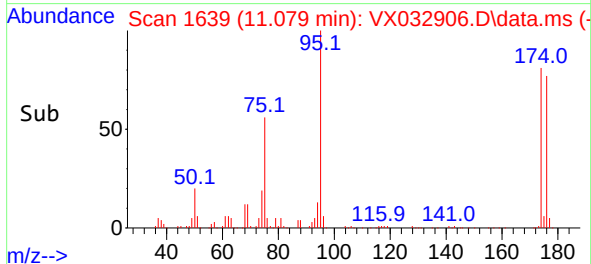
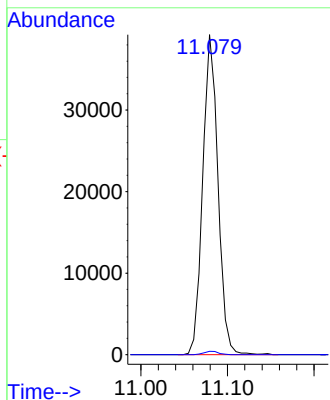
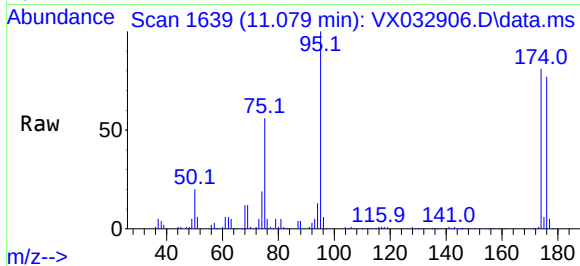




#76  
1,2,3-Trichloropropane  
Concen: 27.568 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20221115

Tgt Ion: 75 Resp: 47947  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.0 60.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 87.722 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX032906.D  
Acq: 17 Nov 2022 17:35

Tgt Ion: 75 Resp: 47947  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.9 130.3#  
89 0.0 38.3 57.5#

