

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV091924\  
 Data File : VV037408.D  
 Acq On : 20 Sep 2024 02:18  
 Operator : SY/MD  
 Sample : P3994-07  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 20 04:17:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR091024WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 20 03:11:07 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.532  | 114   | 292317   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.780  | 117   | 311296   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181 | 152   | 139145   | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 61945    | 3.612    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 72.200%  |
| 7) Chloroethane-d5            | 1.529  | 69    | 77982    | 4.361    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 87.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.053  | 65    | 35041    | 3.957    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 79.200%  |
| 20) 2-Butanone-d5             | 3.796  | 46    | 281215   | 54.869   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 109.740% |
| 24) Chloroform-d              | 4.243  | 84    | 204903   | 4.921    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 98.400%  |
| 26) 1,2-Dichloroethane-d4     | 4.940  | 65    | 101409   | 5.202    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 104.000% |
| 32) Benzene-d6                | 4.953  | 84    | 373056   | 4.470    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.400%  |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 128115   | 4.936    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 98.800%  |
| 41) Toluene-d8                | 7.239  | 98    | 304603   | 4.050    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 81.000%  |
| 43) trans-1,3-Dichloroprop... | 7.561  | 79    | 27425    | 3.212    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 64.200%  |
| 46) 2-Hexanone-d5             | 8.024  | 63    | 229070   | 54.914   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 109.820% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 109013   | 5.153    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 103.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 128279   | 5.185    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 103.800% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
| 8) Chloroethane               | 1.346  | 64    | 184246   | 10.760   | ug/L # | 52       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.063  | 101   | 80337    | 3.745    | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.063  | 96    | 1687383  | 82.372   | ug/L # | 76       |
| 17) Methyl tert-butyl Ether   | 2.703  | 73    | 4949     | 0.102    | ug/L # | 85       |
| 18) trans-1,2-Dichloroethene  | 2.696  | 96    | 7122     | 0.330    | ug/L # | 81       |
| 19) 1,1-Dichloroethane        | 3.105  | 63    | 737639   | 17.923   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.802  | 96    | 1174788  | 50.421   | ug/L   | 99       |
| 25) Chloroform                | 4.272  | 83    | 18251    | 0.440    | ug/L   | 94       |
| 27) 1,2-Dichloroethane        | 5.059  | 62    | 11965    | 0.510    | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane     | 4.503  | 97    | 187289   | 5.074    | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.506  | 117   | 24083    | 0.767    | ug/L   | 97       |
| 34) Trichloroethene           | 5.821  | 95    | 1352327  | 53.504   | ug/L   | 98       |
| 35) Methylcyclohexane         | 5.985  | 83    | 31404    | 0.817    | ug/L # | 19       |
| 37) 1,2-Dichloropropane       | 5.985  | 63    | 13683    | 0.573    | ug/L # | 87       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97    | 11983    | 0.702    | ug/L   | 98       |
| 47) Tetrachloroethene         | 7.899  | 164   | 1583971  | 87.560   | ug/L   | 100      |
| 49) Dibromochloromethane      | 7.899  | 129   | 1470709  | 82.191   | ug/L # | 10       |
| 61) 1,2,3-Trichloropropane    | 11.181 | 75    | 18138    | 1.432    | ug/L # | 68       |
| -----                         |        |       |          |          |        |          |

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Sample : P3994-07  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Sep 20 04:17:48 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR091024WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Sep 20 03:11:07 2024  
Response via : Initial Calibration

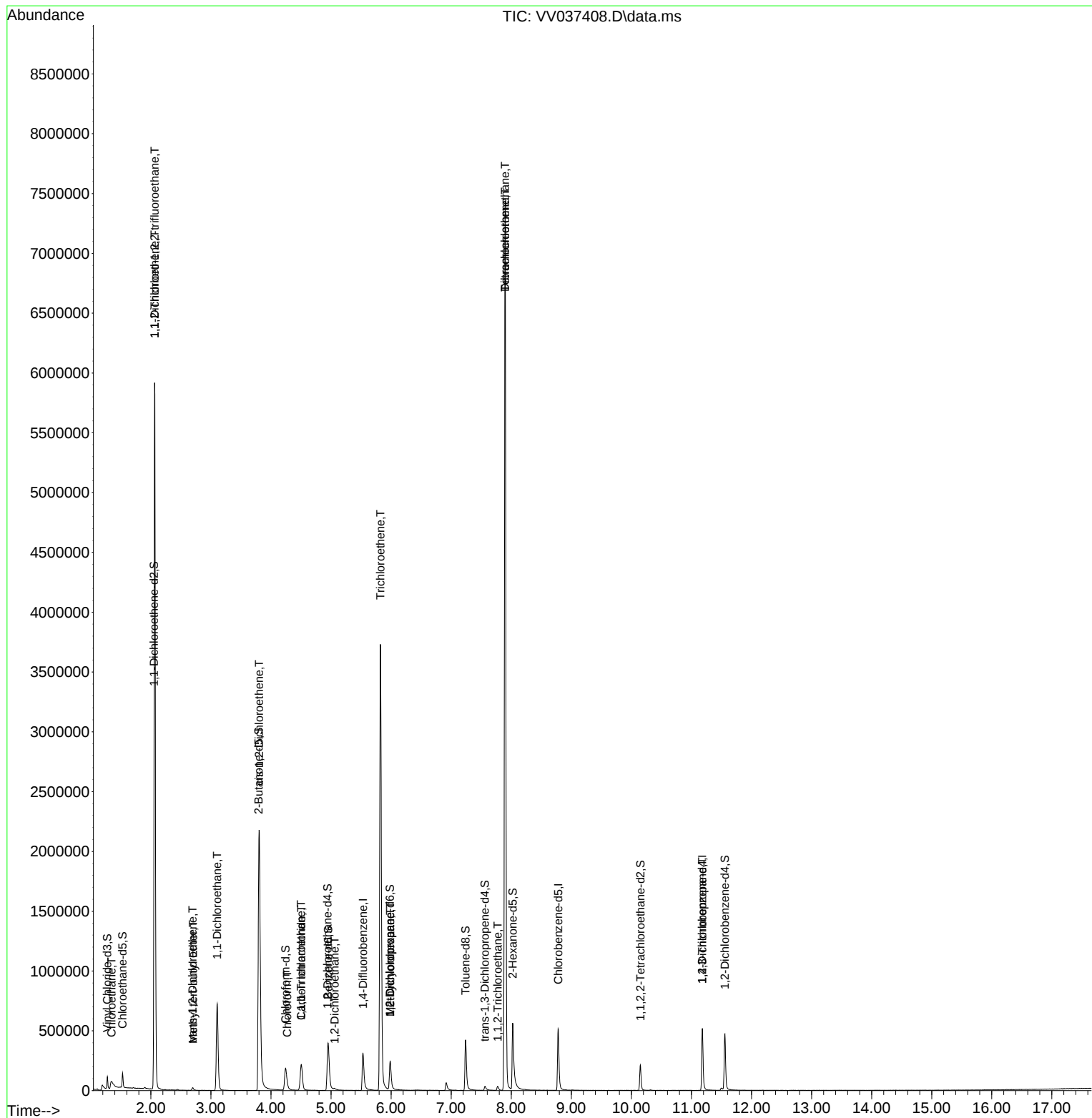
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

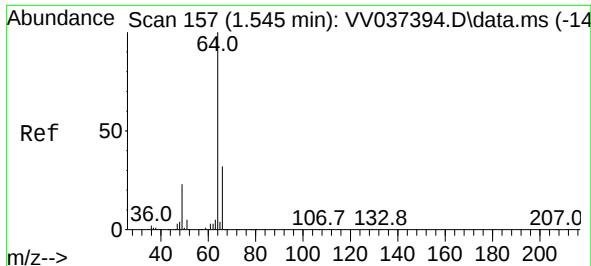
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR091024WMA.M  
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QLast Update : Fri Sep 20 03:11:07 2024  
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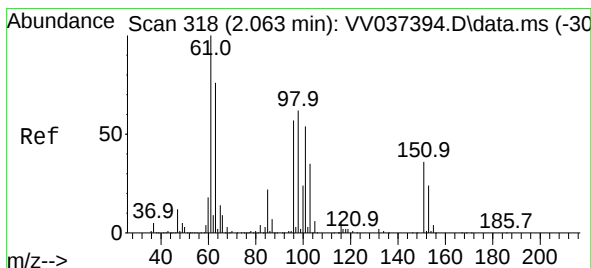
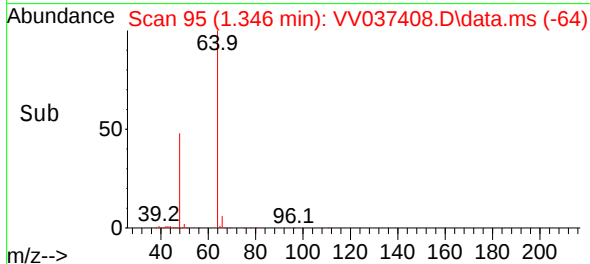
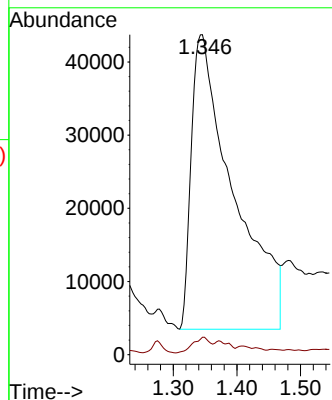
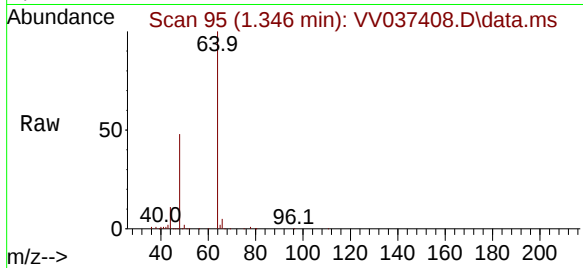




#8  
Chloroethane  
Concen: 10.760 ug/L  
RT: 1.346 min Scan# 95  
Delta R.T. -0.199 min  
Lab File: VV037408.D  
Acq: 20 Sep 2024 02:18

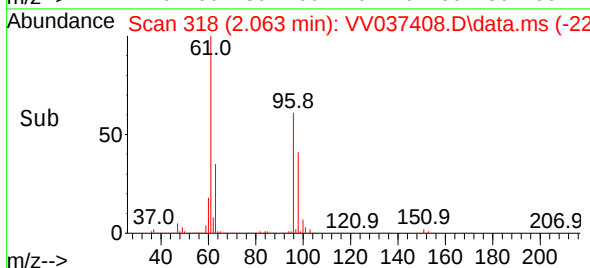
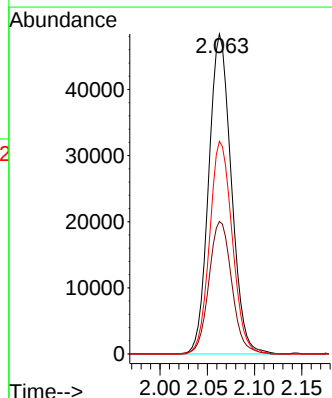
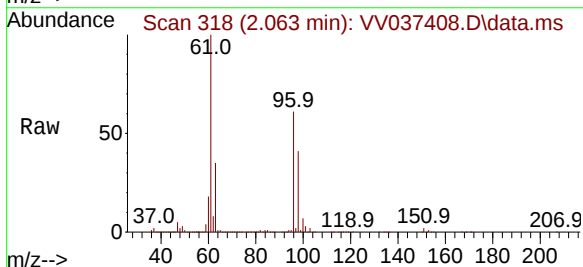
Instrument :  
MSVOA\_V  
ClientSampleId :

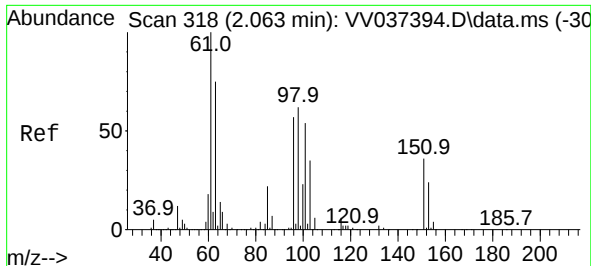
Tgt Ion: 64 Resp: 184246  
Ion Ratio Lower Upper  
64 100  
66 5.5 22.7 42.1#



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 3.745 ug/L  
RT: 2.063 min Scan# 318  
Delta R.T. 0.000 min  
Lab File: VV037408.D  
Acq: 20 Sep 2024 02:18

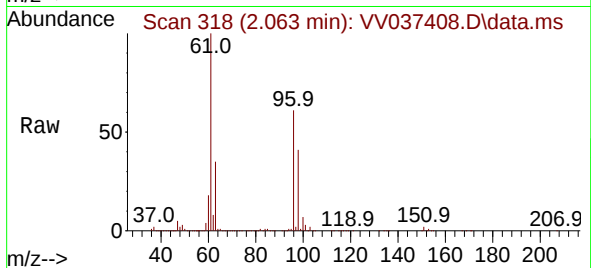
Tgt Ion:101 Resp: 80337  
Ion Ratio Lower Upper  
101 100  
85 42.0 35.1 52.7  
151 66.9 55.3 82.9





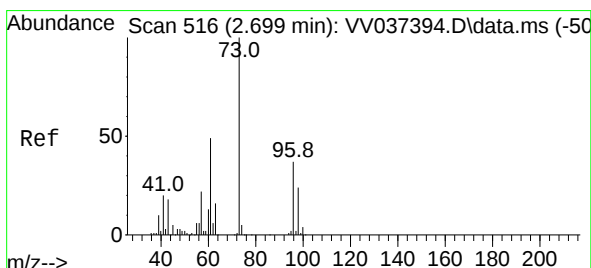
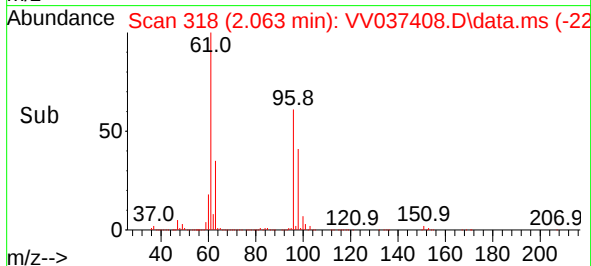
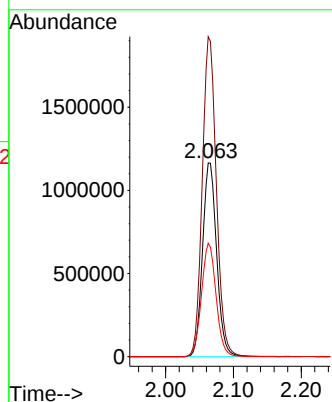
#12  
1,1-Dichloroethene  
Concen: 82.372 ug/L  
RT: 2.063 min Scan# 318  
Delta R.T. 0.000 min  
Lab File: VV037408.D  
Acq: 20 Sep 2024 02:18

Instrument :  
MSVOA\_V  
ClientSampleId :



Tgt Ion: 96 Resp: 1687383

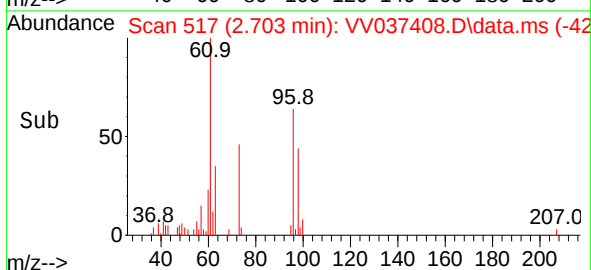
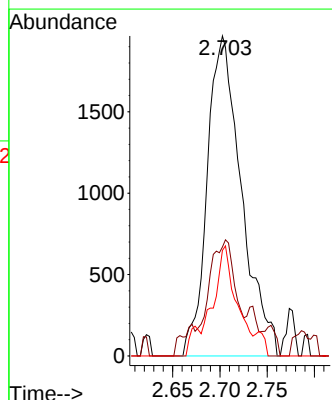
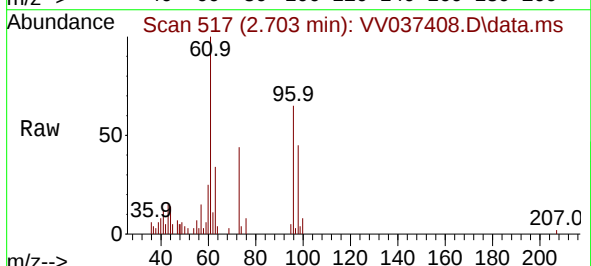
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 165.1 | 119.9 | 222.7 |
| 63  | 58.5  | 81.4  | 151.2 |

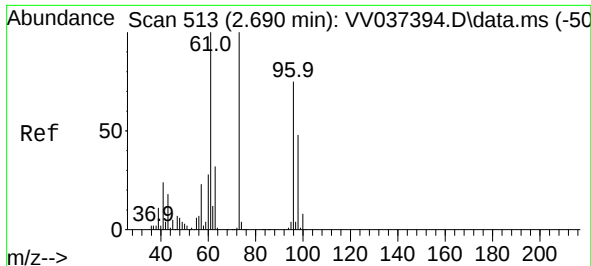


#17  
Methyl tert-butyl Ether  
Concen: 0.102 ug/L  
RT: 2.703 min Scan# 517  
Delta R.T. 0.003 min  
Lab File: VV037408.D  
Acq: 20 Sep 2024 02:18

Tgt Ion: 73 Resp: 4949

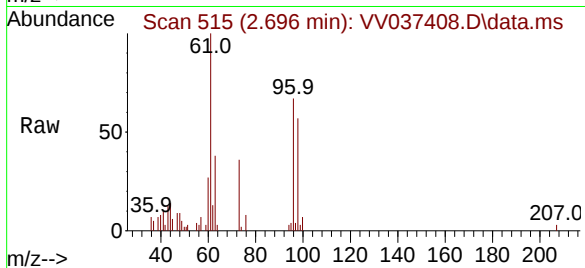
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 28.5  | 14.5  | 21.7  |
| 57  | 17.8  | 17.7  | 26.5  |



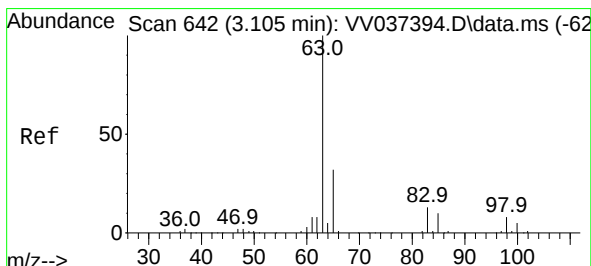
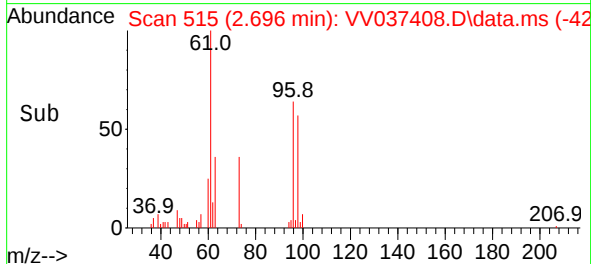
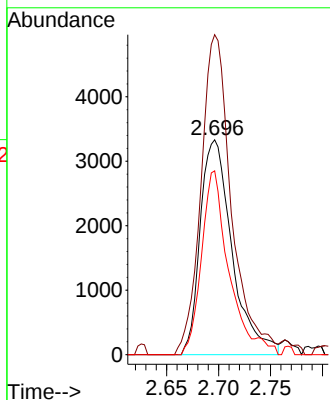


#18  
trans-1,2-Dichloroethene  
Concen: 0.330 ug/L  
RT: 2.696 min Scan# 513  
Delta R.T. 0.006 min  
Lab File: VV037408.D  
Acq: 20 Sep 2024 02:18

Instrument :  
MSVOA\_V  
ClientSampleId :

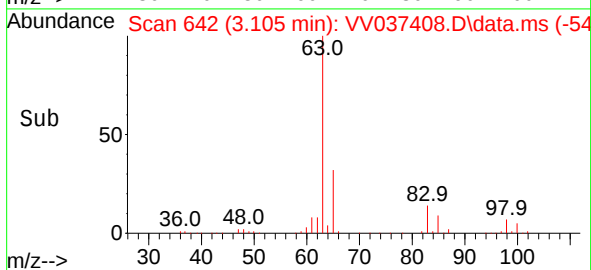
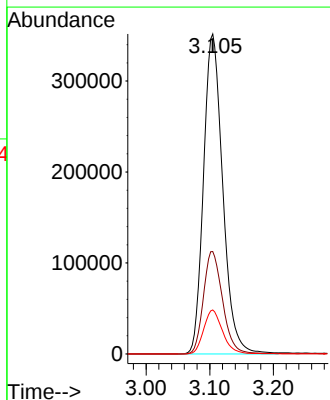
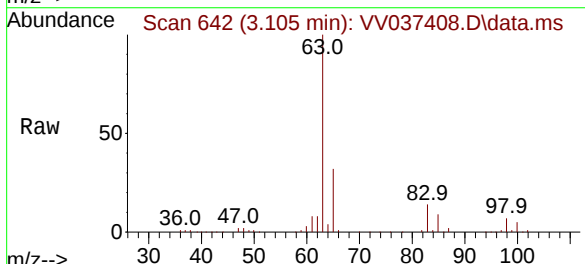


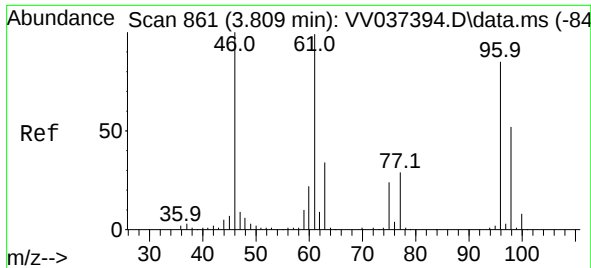
Tgt Ion: 96 Resp: 7122  
Ion Ratio Lower Upper  
96 100  
61 148.9 92.8 172.4  
98 85.5 43.0 79.8#



#19  
1,1-Dichloroethane  
Concen: 17.923 ug/L  
RT: 3.105 min Scan# 642  
Delta R.T. 0.000 min  
Lab File: VV037408.D  
Acq: 20 Sep 2024 02:18

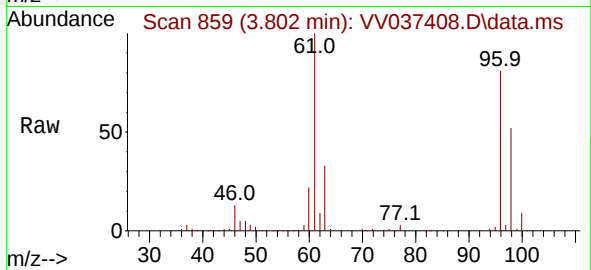
Tgt Ion: 63 Resp: 737639  
Ion Ratio Lower Upper  
63 100  
65 32.0 22.5 41.7  
83 13.8 8.9 16.5





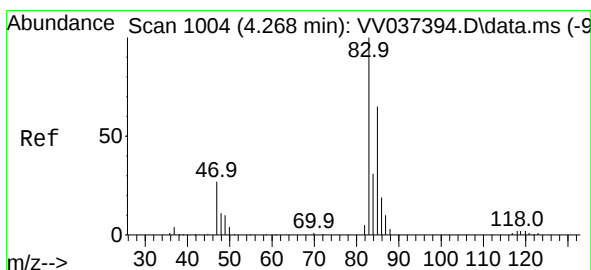
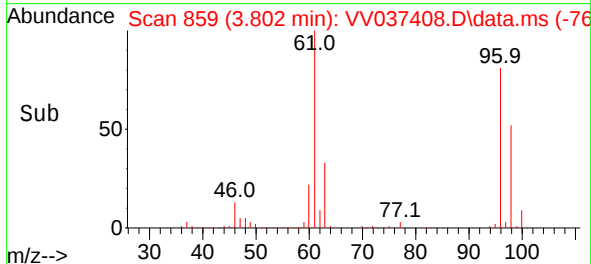
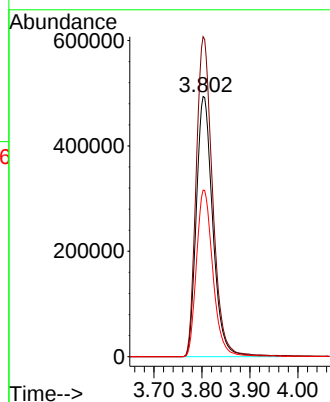
#22  
 cis-1,2-Dichloroethene  
 Concen: 50.421 ug/L  
 RT: 3.802 min Scan# 861  
 Delta R.T. -0.006 min  
 Lab File: VV037408.D  
 Acq: 20 Sep 2024 02:18

Instrument :  
 MSVOA\_V  
 ClientSampleId :



Tgt Ion: 96 Resp: 1174788

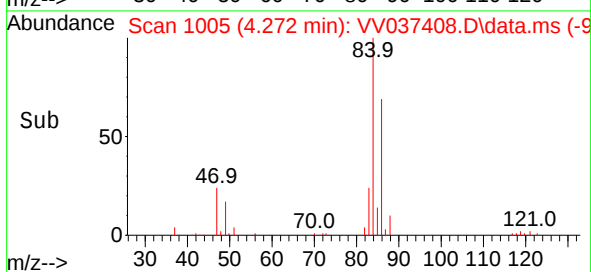
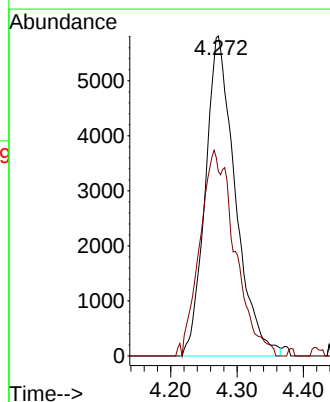
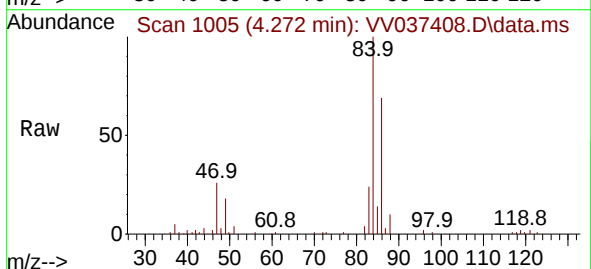
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 123.0 | 87.6  | 162.6 |
| 98  | 64.0  | 44.9  | 83.5  |

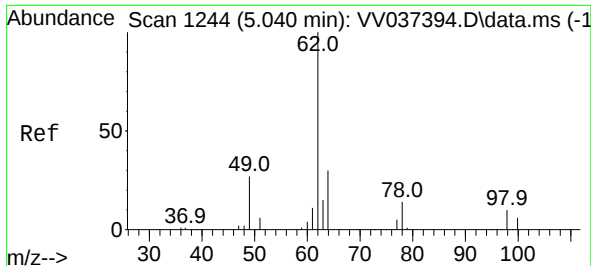


#25  
 Chloroform  
 Concen: 0.440 ug/L  
 RT: 4.272 min Scan# 1005  
 Delta R.T. 0.003 min  
 Lab File: VV037408.D  
 Acq: 20 Sep 2024 02:18

Tgt Ion: 83 Resp: 18251

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 57.8  | 43.8  | 81.4  |

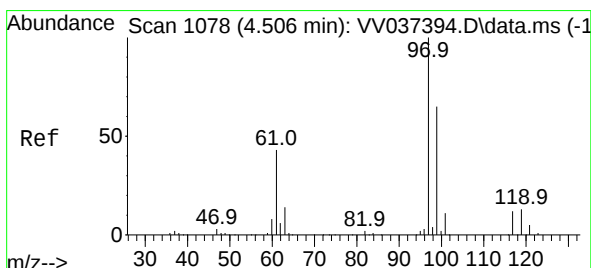
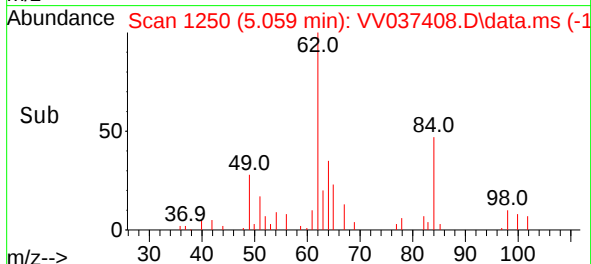
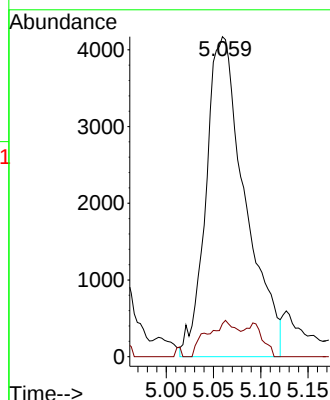
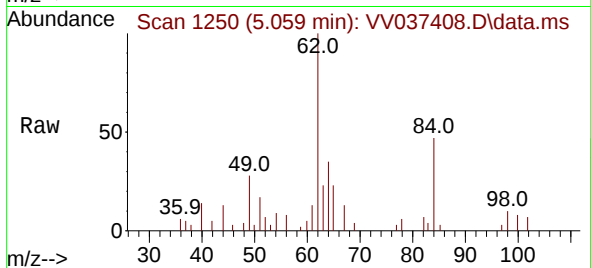




#27  
1,2-Dichloroethane  
Concen: 0.510 ug/L  
RT: 5.059 min Scan# 11965  
Delta R.T. 0.019 min  
Lab File: VV037408.D  
Acq: 20 Sep 2024 02:18

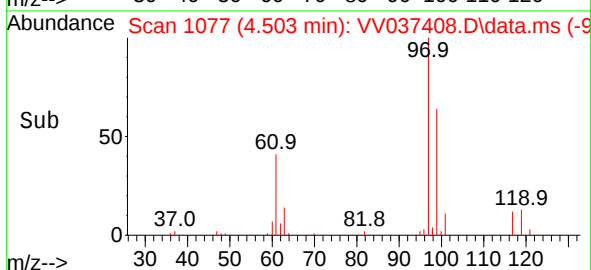
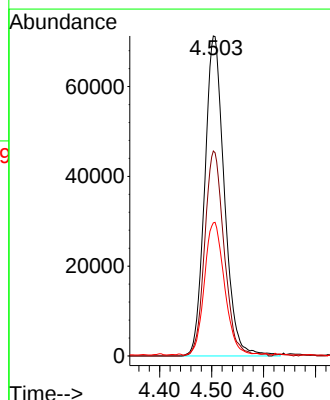
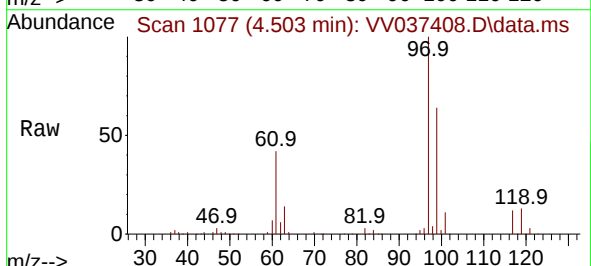
Instrument :  
MSVOA\_V  
ClientSampleId :

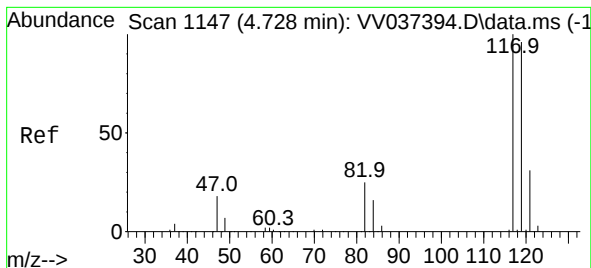
Tgt Ion: 62 Resp: 11965  
Ion Ratio Lower Upper  
62 100  
98 10.3 8.2 12.4



#29  
1,1,1-Trichloroethane  
Concen: 5.074 ug/L  
RT: 4.503 min Scan# 1077  
Delta R.T. -0.003 min  
Lab File: VV037408.D  
Acq: 20 Sep 2024 02:18

Tgt Ion: 97 Resp: 187289  
Ion Ratio Lower Upper  
97 100  
99 63.2 50.0 75.0  
61 42.3 34.3 51.5





#31

Carbon tetrachloride

Concen: 0.767 ug/L

RT: 4.506 min Scan# 1

Delta R.T. -0.222 min

Lab File: VV037408.D

Acq: 20 Sep 2024 02:18

Instrument :

MSVOA\_V

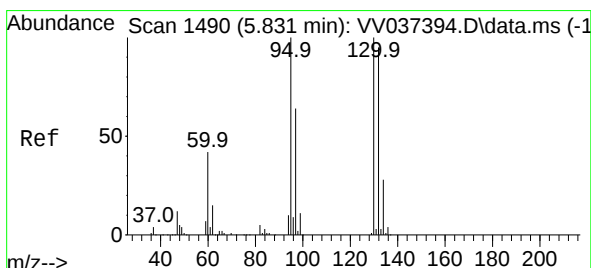
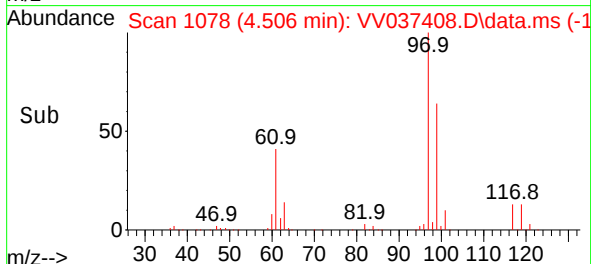
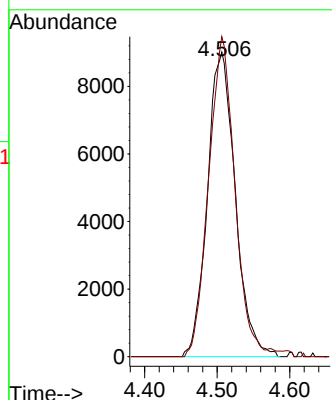
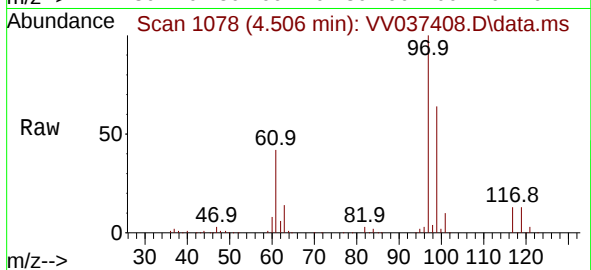
ClientSampleId :

Tgt Ion:117 Resp: 24083

Ion Ratio Lower Upper

117 100

119 98.6 76.2 114.4



#34

Trichloroethene

Concen: 53.504 ug/L

RT: 5.821 min Scan# 1487

Delta R.T. -0.010 min

Lab File: VV037408.D

Acq: 20 Sep 2024 02:18

Tgt Ion: 95 Resp: 1352327

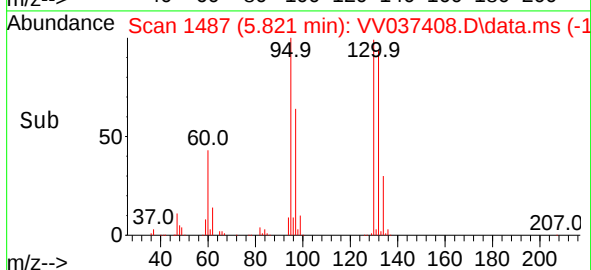
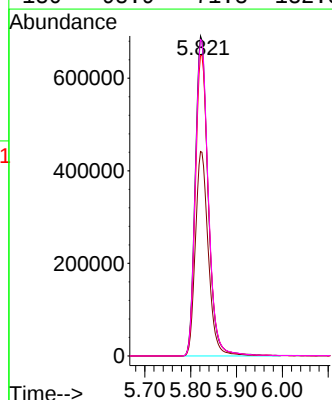
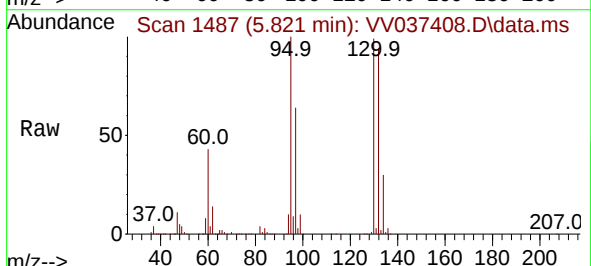
Ion Ratio Lower Upper

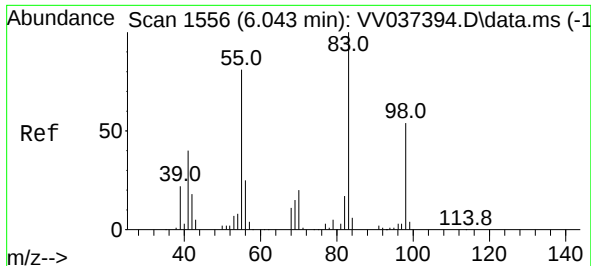
95 100

97 63.9 46.5 86.5

132 93.9 65.5 121.7

130 98.9 71.3 132.3





#35

Methylcyclohexane

Concen: 0.817 ug/L

RT: 5.985 min Scan# 1538

Delta R.T. -0.058 min

Lab File: VV037408.D

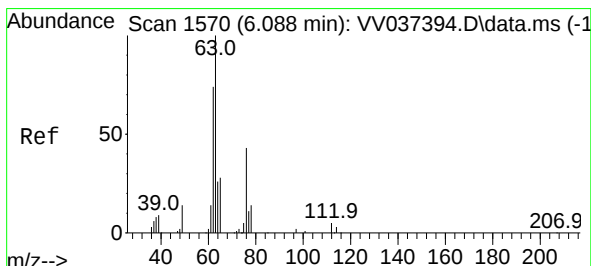
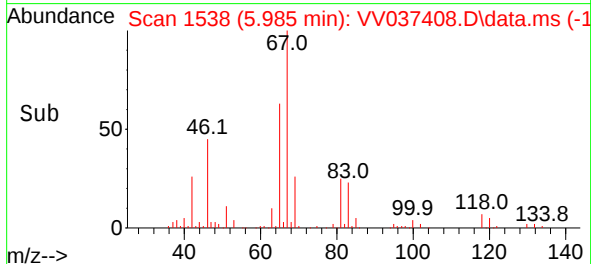
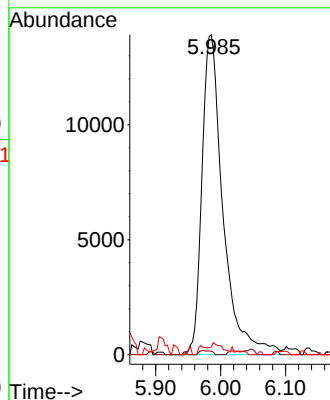
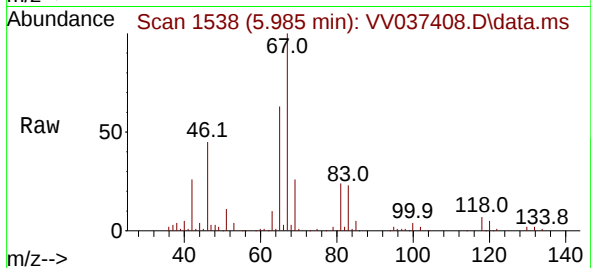
Acq: 20 Sep 2024 02:18

Instrument :

MSVOA\_V

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 31404 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 0.7   | 60.3  | 90.5# |
| 98       | 0.0   | 38.2  | 57.4# |



#37

1,2-Dichloropropane

Concen: 0.573 ug/L

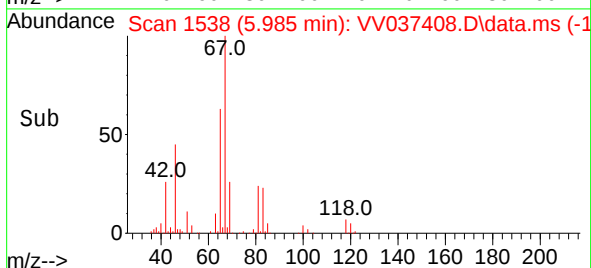
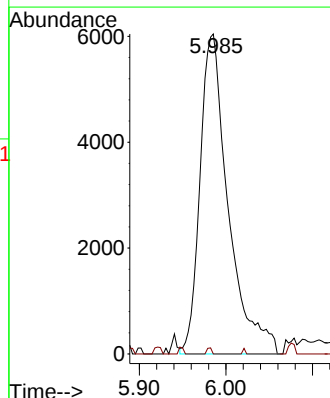
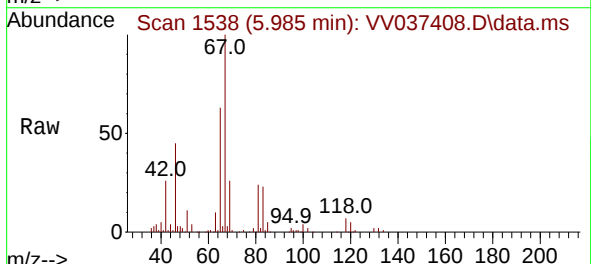
RT: 5.985 min Scan# 1538

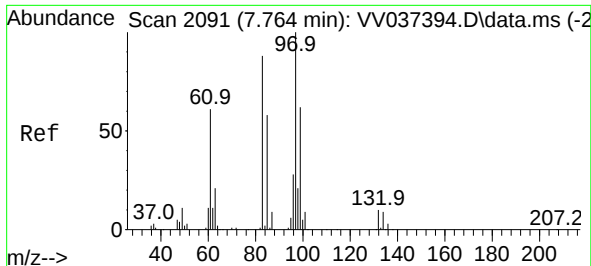
Delta R.T. -0.103 min

Lab File: VV037408.D

Acq: 20 Sep 2024 02:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 13683 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 112      | 0.3   | 3.7   | 5.5#  |





#45

1,1,2-Trichloroethane

Concen: 0.702 ug/L

RT: 7.773 min Scan# 2091

Delta R.T. 0.010 min

Lab File: VV037408.D

Acq: 20 Sep 2024 02:18

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 97 Resp: 11983

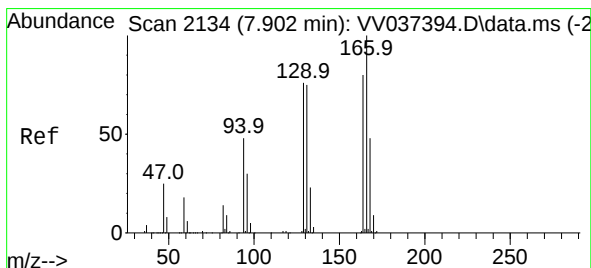
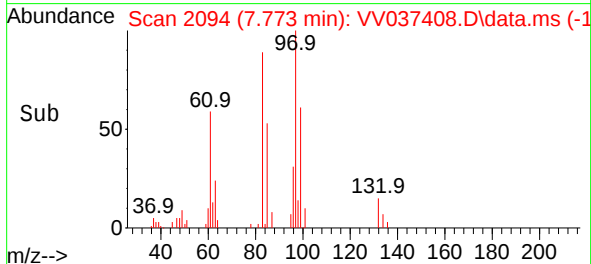
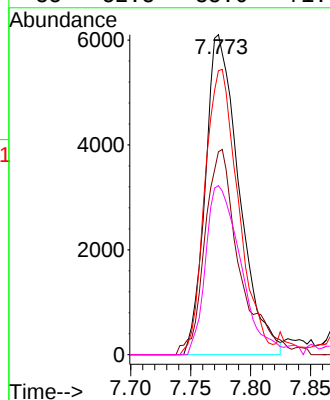
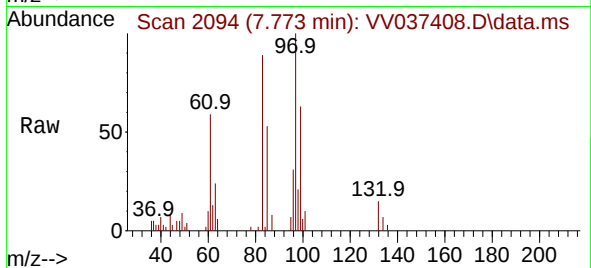
Ion Ratio Lower Upper

97 100

99 63.4 43.1 80.1

83 88.7 61.0 113.4

85 52.8 38.6 71.6



#47

Tetrachloroethene

Concen: 87.560 ug/L

RT: 7.899 min Scan# 2133

Delta R.T. -0.003 min

Lab File: VV037408.D

Acq: 20 Sep 2024 02:18

Tgt Ion:164 Resp: 1583971

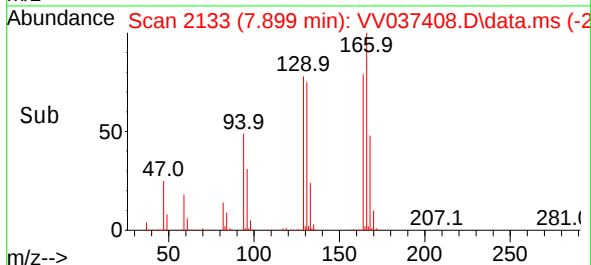
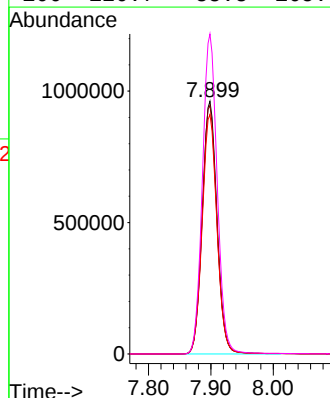
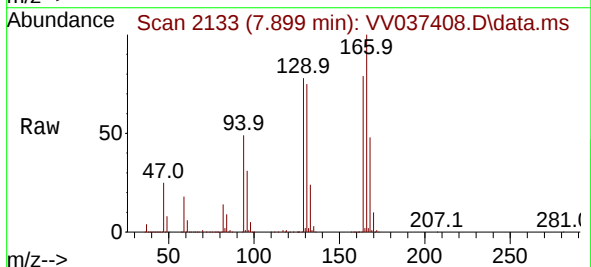
Ion Ratio Lower Upper

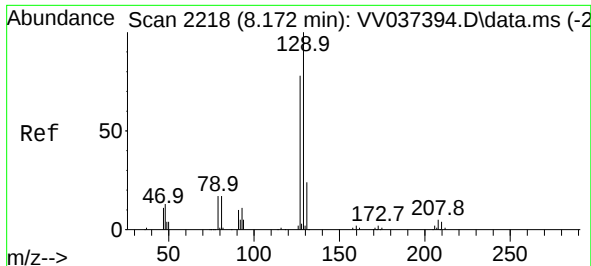
164 100

129 98.4 69.2 128.4

131 94.8 66.6 123.8

166 126.7 88.8 165.0





#49

Dibromochloromethane

Concen: 82.191 ug/L

RT: 7.899 min Scan# 2133

Delta R.T. -0.273 min

Lab File: VV037408.D

Acq: 20 Sep 2024 02:18

Instrument :

MSVOA\_V

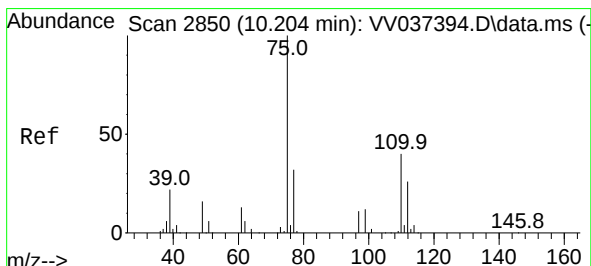
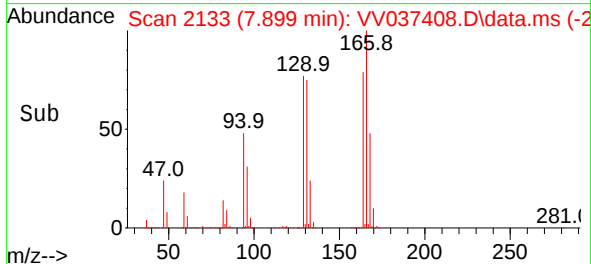
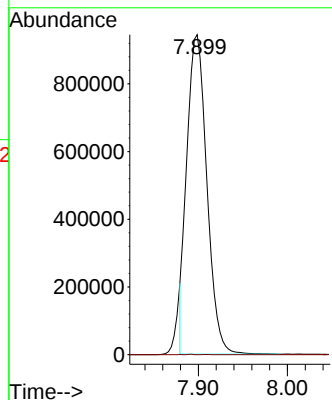
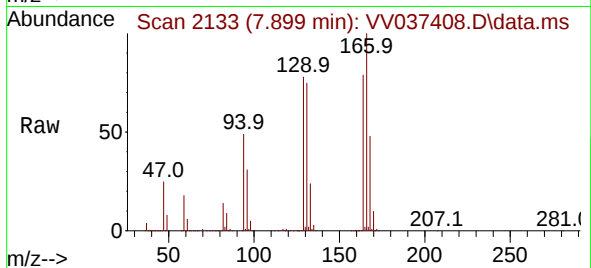
ClientSampleId :

Tgt Ion:129 Resp: 1470709

Ion Ratio Lower Upper

129 100

127 0.0 54.5 101.1#



#61

1,2,3-Trichloropropane

Concen: 1.432 ug/L

RT: 11.181 min Scan# 3154

Delta R.T. 0.977 min

Lab File: VV037408.D

Acq: 20 Sep 2024 02:18

Tgt Ion: 75 Resp: 18138

Ion Ratio Lower Upper

75 100

77 32.4 25.6 38.4

110 3.6 31.0 46.4#

