

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV112524\  
 Data File : VV038342.D  
 Acq On : 25 Nov 2024 14:27  
 Operator : SY/MD  
 Sample : P4884-01DL 5X  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 26 00:43:42 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Nov 26 00:39:03 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 214001   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.779  | 117   | 240484   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.178 | 152   | 97296    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 48687    | 2.968    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 59.400%  |
| 7) Chloroethane-d5            | 1.519  | 69    | 55240    | 4.163    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 83.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.050  | 65    | 24344    | 3.449    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 69.000%  |
| 20) 2-Butanone-d5             | 3.780  | 46    | 156477   | 47.687   | ug/L   | -0.03    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 95.380%  |
| 24) Chloroform-d              | 4.239  | 84    | 142163   | 4.466    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.400%  |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65    | 69229    | 4.847    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 97.000%  |
| 32) Benzene-d6                | 4.950  | 84    | 232418   | 3.739    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 74.800%  |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 84875    | 4.438    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 88.800%  |
| 41) Toluene-d8                | 7.239  | 98    | 175662   | 3.054    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 61.000%# |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79    | 25019    | 3.519    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 70.400%  |
| 46) 2-Hexanone-d5             | 8.017  | 63    | 105829   | 38.287   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 76.580%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.146 | 84    | 69131    | 4.258    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 85.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.554 | 152   | 73013    | 4.404    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 88.000%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 9) Trichlorofluoromethane     | 1.706  | 101   | 238027   | 8.466    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.059  | 101   | 4358     | 0.272    | ug/L # | 77       |
| 12) 1,1-Dichloroethene        | 2.059  | 96    | 3567     | 0.233    | ug/L # | 1        |
| 16) Methylene chloride        | 2.439  | 84    | 22165    | 1.272    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 2.696  | 73    | 43596    | 1.262    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.108  | 63    | 33929    | 1.161    | ug/L   | 96       |
| 22) cis-1,2-Dichloroethene    | 3.809  | 96    | 3407     | 0.205    | ug/L   | 76       |
| 27) 1,2-Dichloroethane        | 5.066  | 62    | 2924     | 0.172    | ug/L # | 91       |
| 29) 1,1,1-Trichloroethane     | 4.510  | 97    | 14769    | 0.512    | ug/L   | 95       |
| 34) Trichloroethene           | 5.834  | 95    | 13302    | 0.722    | ug/L   | 92       |
| 35) Methylcyclohexane         | 5.982  | 83    | 19884    | 0.763    | ug/L # | 19       |
| 37) 1,2-Dichloropropane       | 5.985  | 63    | 9153     | 0.541    | ug/L # | 86       |
| 42) Toluene                   | 7.329  | 91    | 9635     | 0.135    | ug/L   | 100      |
| 47) Tetrachloroethene         | 7.902  | 164   | 21268    | 1.437    | ug/L   | 99       |
| 49) Dibromochloromethane      | 7.899  | 129   | 20513    | 1.371    | ug/L # | 11       |
| 51) Chlorobenzene             | 8.815  | 112   | 7606     | 0.154    | ug/L   | 92       |
| 53) m,p-Xylene                | 9.085  | 106   | 1463     | 0.051    | ug/L   | 91       |
| 61) 1,2,3-Trichloropropane    | 11.178 | 75    | 10904    | 1.309    | ug/L # | 52       |
| -----                         |        |       |          |          |        |          |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Nov 26 00:43:42 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Nov 26 00:39:03 2024  
Response via : Initial Calibration

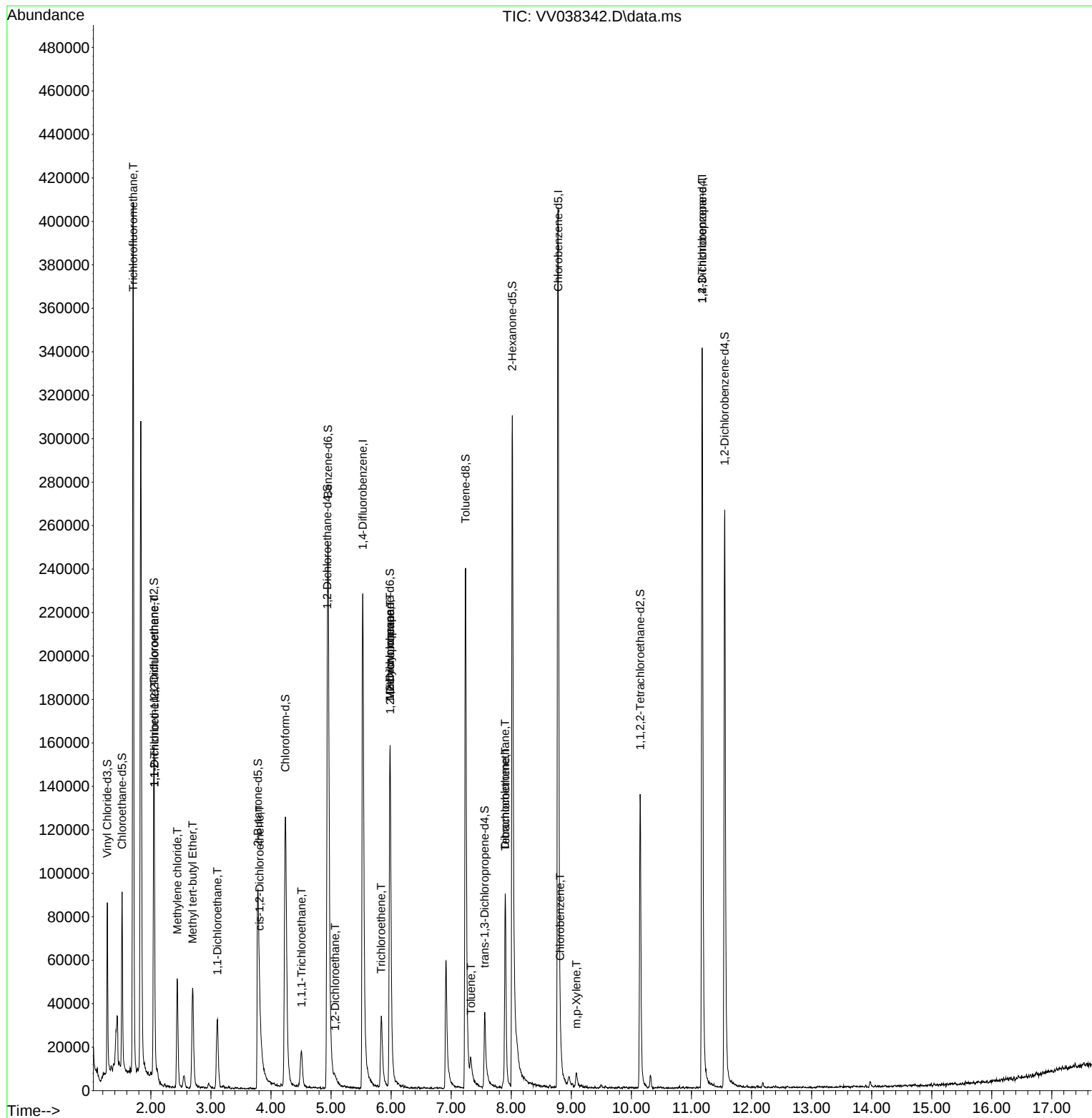
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

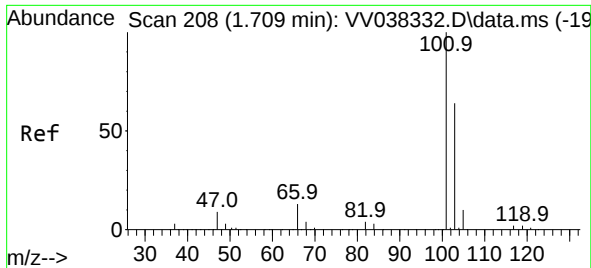
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
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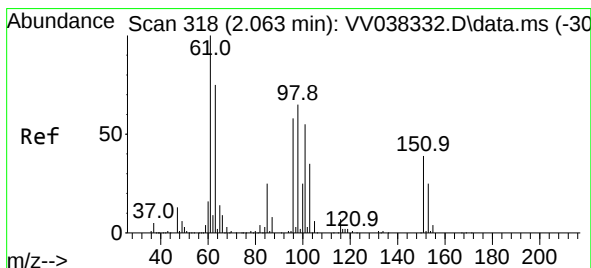
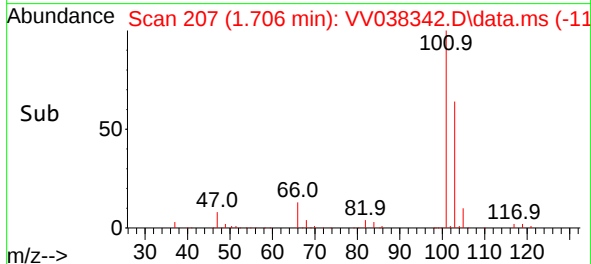
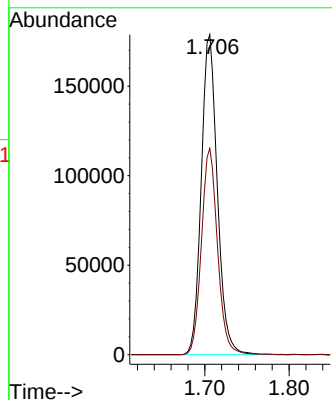
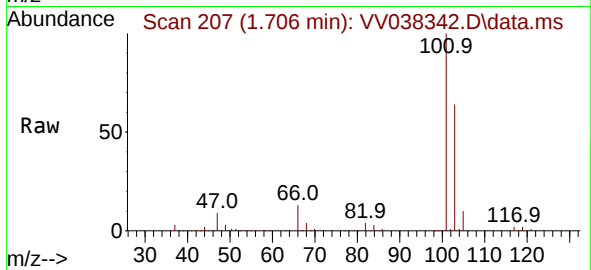




#9  
 Trichlorofluoromethane  
 Concen: 8.466 ug/L  
 RT: 1.706 min Scan# 208  
 Delta R.T. -0.003 min  
 Lab File: VV038342.D  
 Acq: 25 Nov 2024 14:27

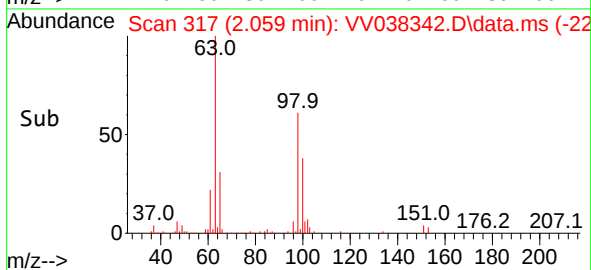
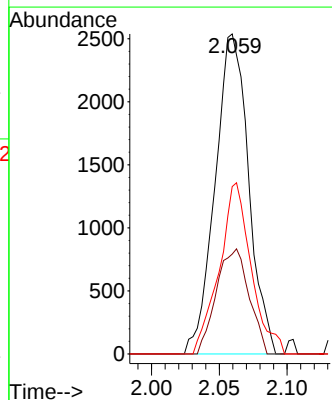
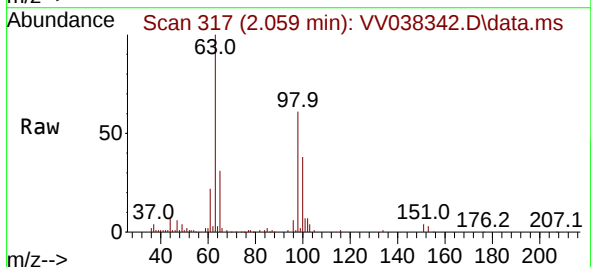
Instrument :  
 MSVOA\_V  
 ClientSampleId :

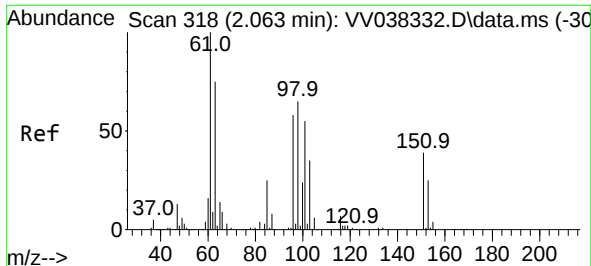
Tgt Ion:101 Resp: 238027  
 Ion Ratio Lower Upper  
 101 100  
 103 64.6 51.5 77.3



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.272 ug/L  
 RT: 2.059 min Scan# 317  
 Delta R.T. -0.003 min  
 Lab File: VV038342.D  
 Acq: 25 Nov 2024 14:27

Tgt Ion:101 Resp: 4358  
 Ion Ratio Lower Upper  
 101 100  
 85 32.1 33.4 50.0#  
 151 51.0 58.8 88.2#





#12

1,1-Dichloroethene

Concen: 0.233 ug/L

RT: 2.059 min Scan# 318

Delta R.T. -0.003 min

Lab File: VV038342.D

Acq: 25 Nov 2024 14:27

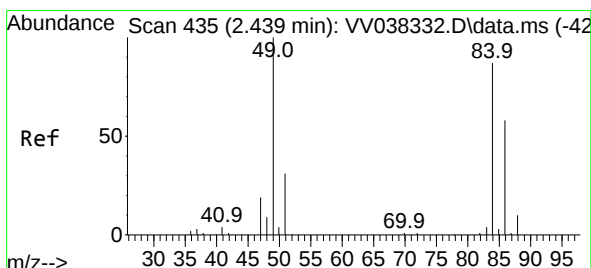
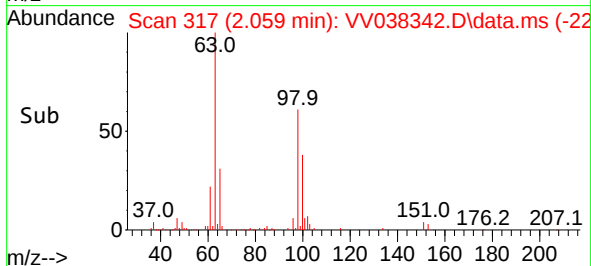
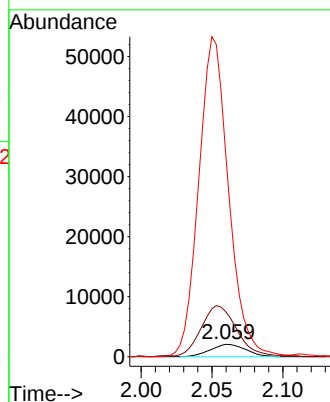
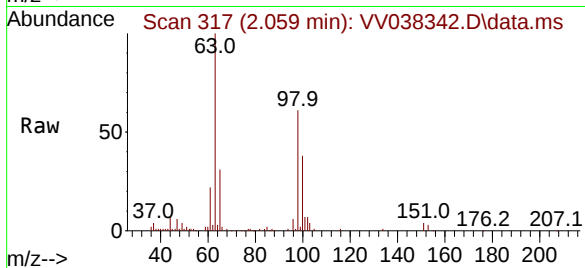
Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 96 Resp: 3567

| Ion | Ratio  | Lower | Upper  |
|-----|--------|-------|--------|
| 96  | 100    |       |        |
| 61  | 366.7  | 115.7 | 214.9# |
| 63  | 1667.2 | 101.1 | 187.7# |



#16

Methylene chloride

Concen: 1.272 ug/L

RT: 2.439 min Scan# 435

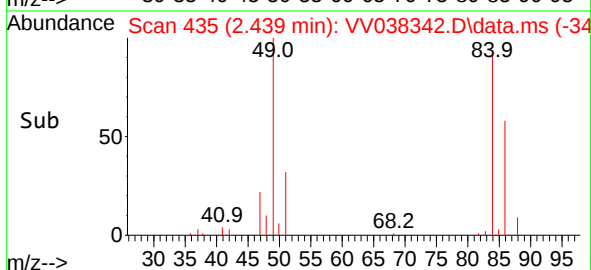
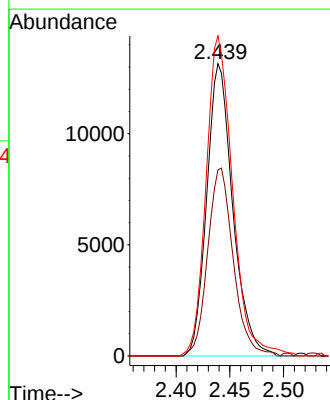
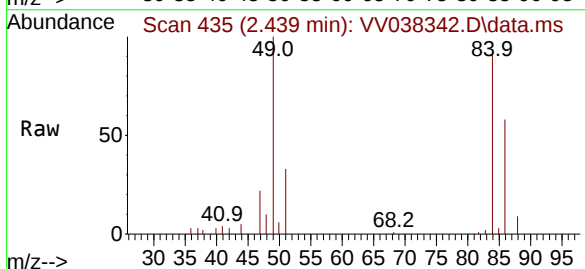
Delta R.T. -0.000 min

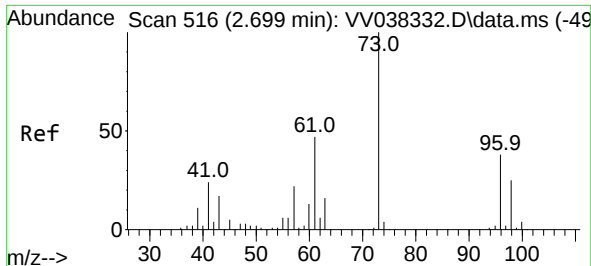
Lab File: VV038342.D

Acq: 25 Nov 2024 14:27

Tgt Ion: 84 Resp: 22165

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 86  | 63.7  | 44.2  | 82.2  |
| 49  | 109.5 | 74.9  | 139.1 |

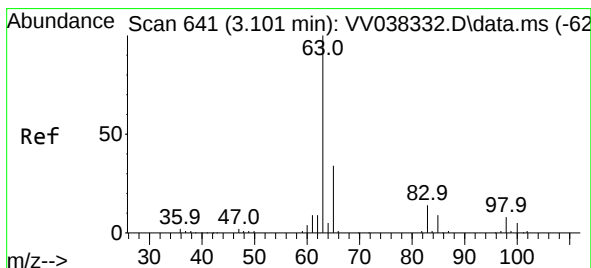
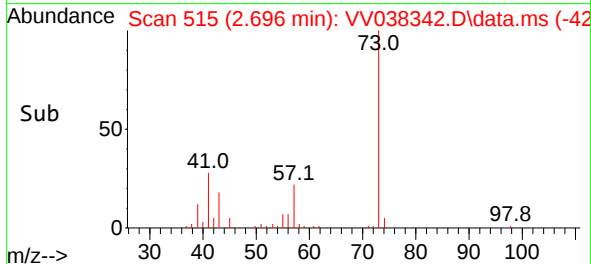
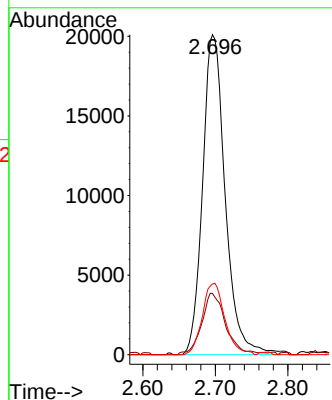
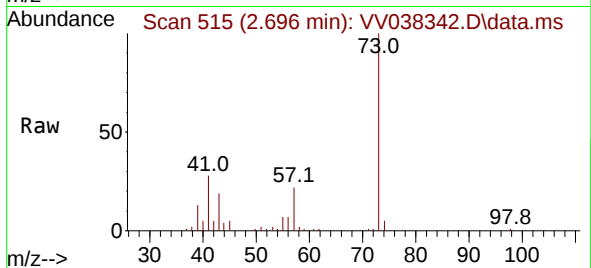




#17  
Methyl tert-butyl Ether  
Concen: 1.262 ug/L  
RT: 2.696 min Scan# 516  
Delta R.T. -0.003 min  
Lab File: VV038342.D  
Acq: 25 Nov 2024 14:27

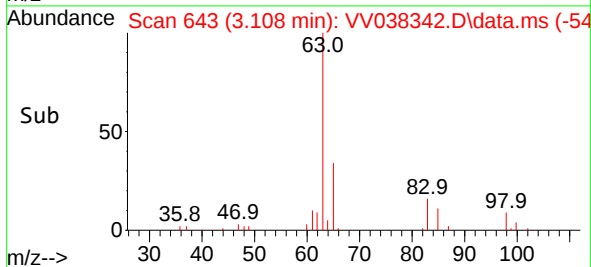
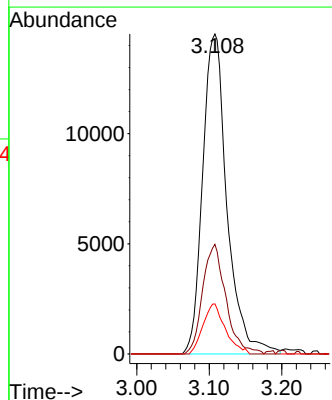
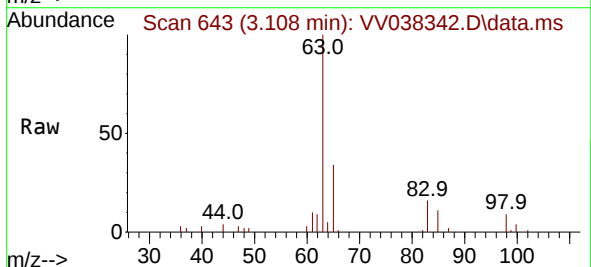
Instrument :  
MSVOA\_V  
ClientSampleId :

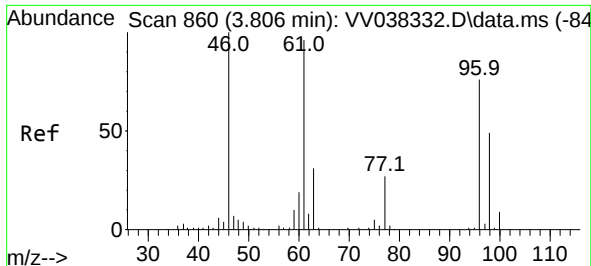
Tgt Ion: 73 Resp: 43596  
Ion Ratio Lower Upper  
73 100  
43 20.6 14.2 21.2  
57 22.1 17.6 26.4



#19  
1,1-Dichloroethane  
Concen: 1.161 ug/L  
RT: 3.108 min Scan# 643  
Delta R.T. 0.006 min  
Lab File: VV038342.D  
Acq: 25 Nov 2024 14:27

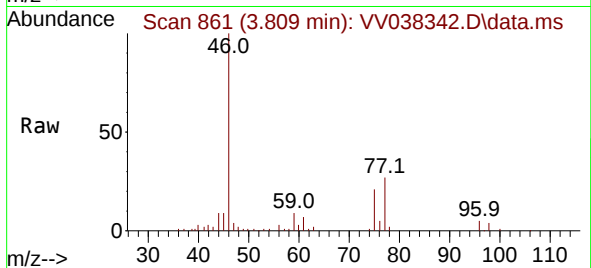
Tgt Ion: 63 Resp: 33929  
Ion Ratio Lower Upper  
63 100  
65 34.2 22.5 41.7  
83 15.6 10.1 18.9



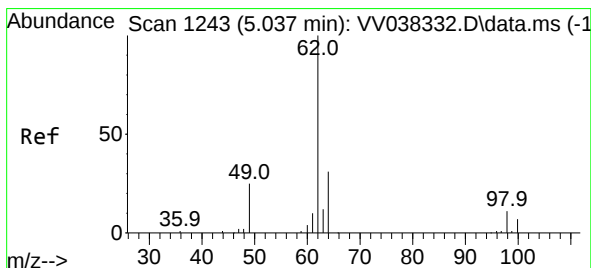
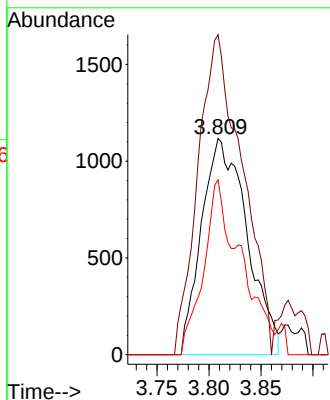
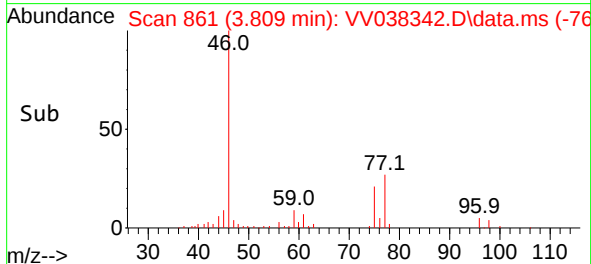


#22  
 cis-1,2-Dichloroethene  
 Concen: 0.205 ug/L  
 RT: 3.809 min Scan# 861  
 Delta R.T. 0.003 min  
 Lab File: VV038342.D  
 Acq: 25 Nov 2024 14:27

Instrument :  
 MSVOA\_V  
 ClientSampleId :

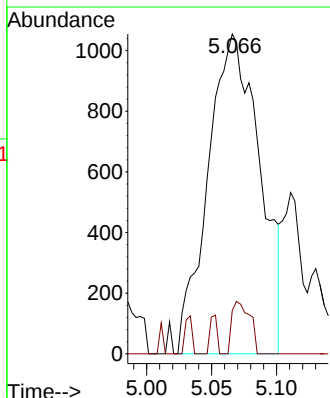
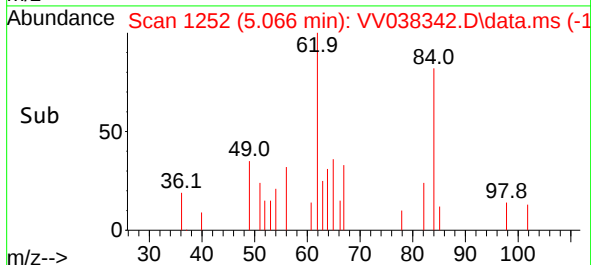
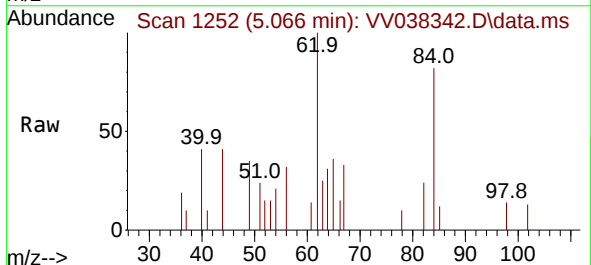


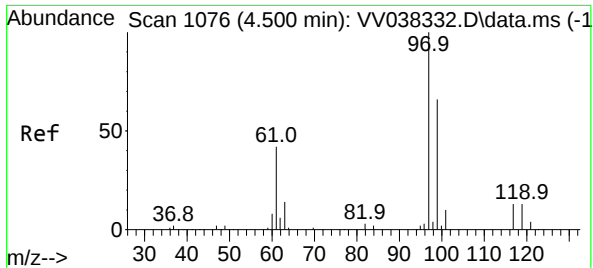
Tgt Ion: 96 Resp: 3407  
 Ion Ratio Lower Upper  
 96 100  
 61 148.1 82.7 153.5  
 98 80.9 46.3 85.9



#27  
 1,2-Dichloroethane  
 Concen: 0.172 ug/L  
 RT: 5.066 min Scan# 1252  
 Delta R.T. 0.029 min  
 Lab File: VV038342.D  
 Acq: 25 Nov 2024 14:27

Tgt Ion: 62 Resp: 2924  
 Ion Ratio Lower Upper  
 62 100  
 98 13.6 8.2 12.4#

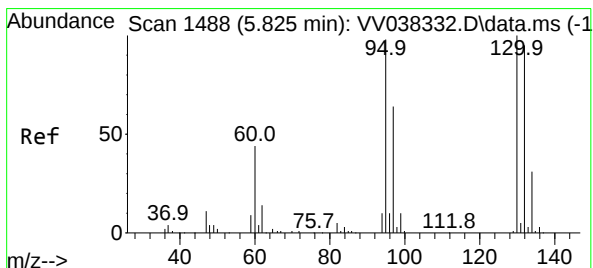
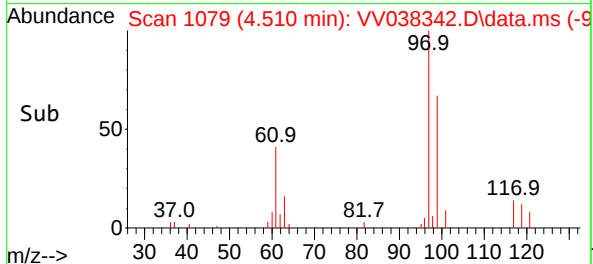
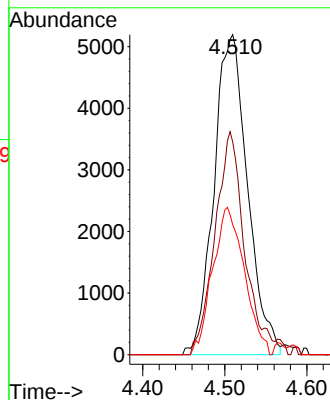
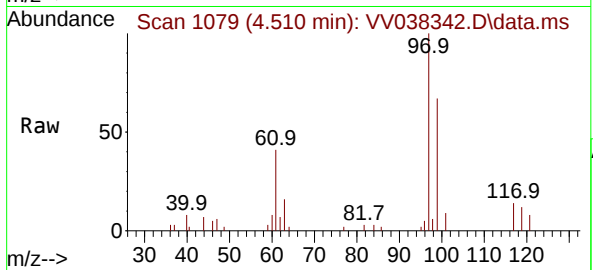




#29  
1,1,1-Trichloroethane  
Concen: 0.512 ug/L  
RT: 4.510 min Scan# 1076  
Delta R.T. 0.010 min  
Lab File: VV038342.D  
Acq: 25 Nov 2024 14:27

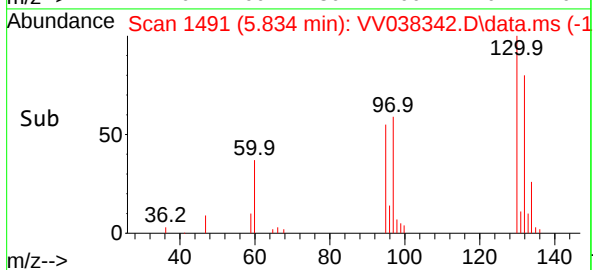
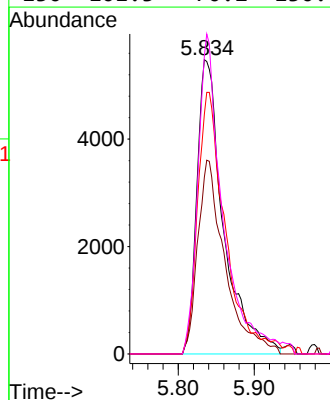
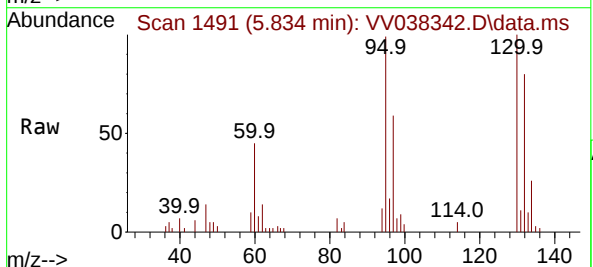
Instrument :  
MSVOA\_V  
ClientSampleId :

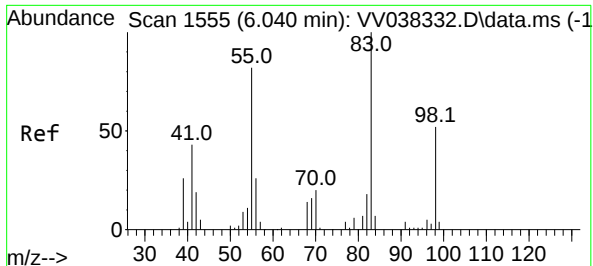
Tgt Ion: 97 Resp: 14769  
Ion Ratio Lower Upper  
97 100  
99 61.4 51.8 77.8  
61 43.6 32.2 48.2



#34  
Trichloroethene  
Concen: 0.722 ug/L  
RT: 5.834 min Scan# 1491  
Delta R.T. 0.010 min  
Lab File: VV038342.D  
Acq: 25 Nov 2024 14:27

Tgt Ion: 95 Resp: 13302  
Ion Ratio Lower Upper  
95 100  
97 60.1 44.8 83.2  
132 81.5 68.3 126.8  
130 101.3 70.2 130.4





#35

Methylcyclohexane

Concen: 0.763 ug/L

RT: 5.982 min Scan# 1537

Delta R.T. -0.058 min

Lab File: VV038342.D

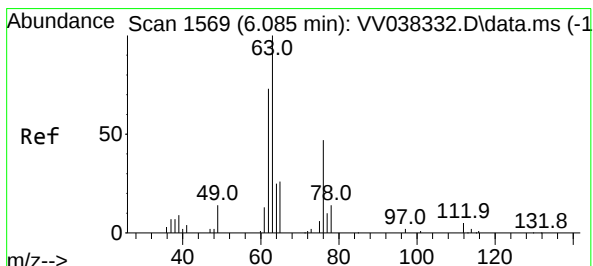
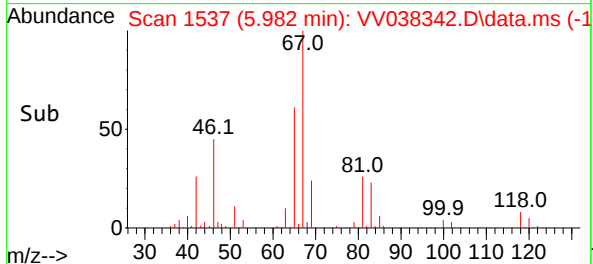
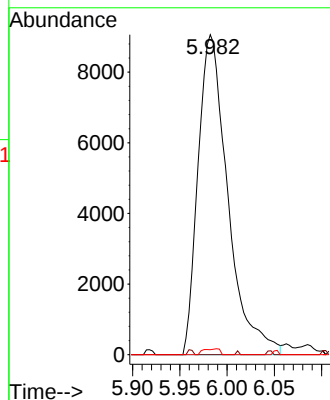
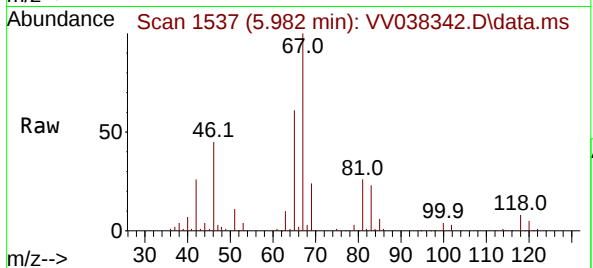
Acq: 25 Nov 2024 14:27

Instrument :

MSVOA\_V

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 19884 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 0.3   | 59.7  | 89.5# |
| 98        | 1.0   | 39.0  | 58.4# |



#37

1,2-Dichloropropane

Concen: 0.541 ug/L

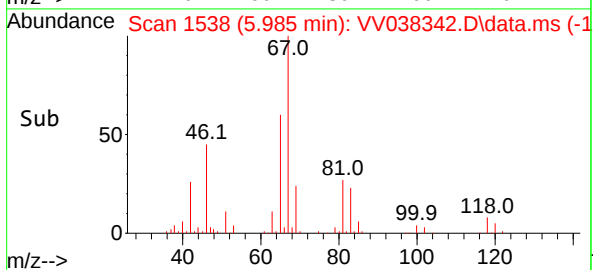
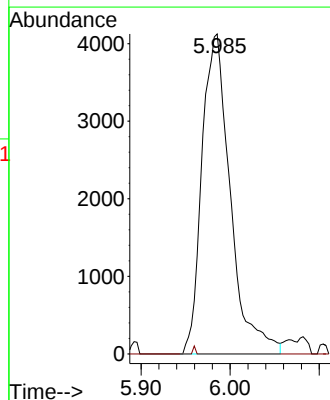
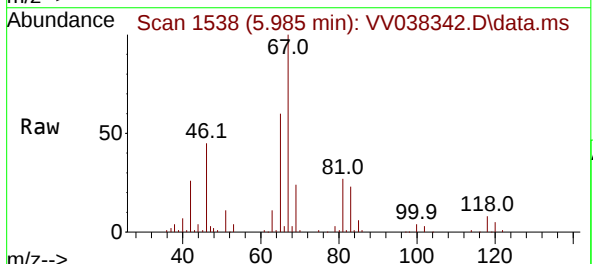
RT: 5.985 min Scan# 1538

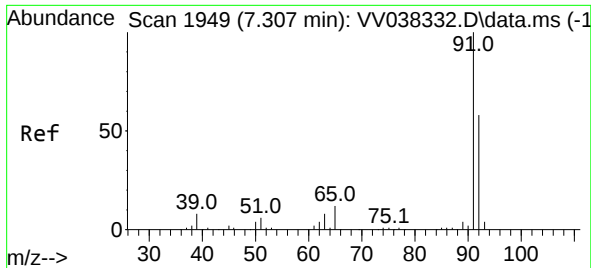
Delta R.T. -0.100 min

Lab File: VV038342.D

Acq: 25 Nov 2024 14:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 63    | Resp: | 9153 |
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 112       | 0.2   | 3.9   | 5.9# |





#42

Toluene

Concen: 0.135 ug/L

RT: 7.329 min Scan# 1949

Delta R.T. 0.022 min

Lab File: VV038342.D

Acq: 25 Nov 2024 14:27

Instrument :

MSVOA\_V

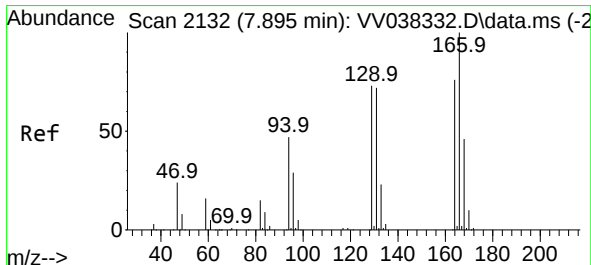
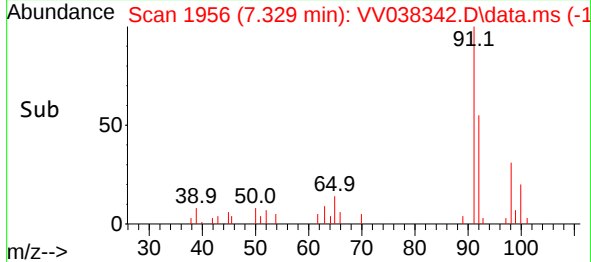
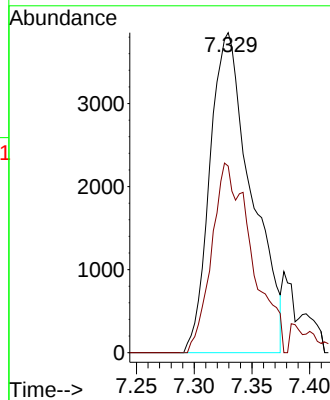
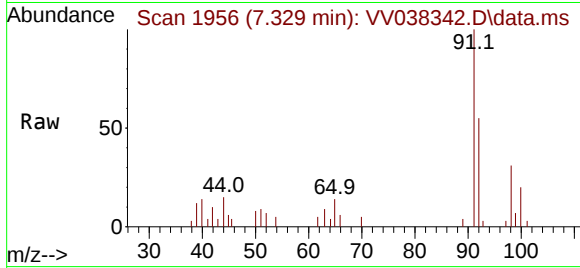
ClientSampleId :

Tgt Ion: 91 Resp: 9635

Ion Ratio Lower Upper

91 100

92 58.3 40.8 75.8



#47

Tetrachloroethene

Concen: 1.437 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.006 min

Lab File: VV038342.D

Acq: 25 Nov 2024 14:27

Tgt Ion: 164 Resp: 21268

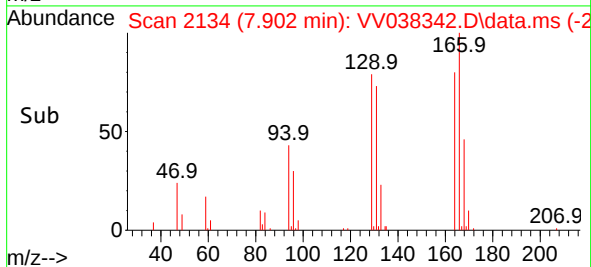
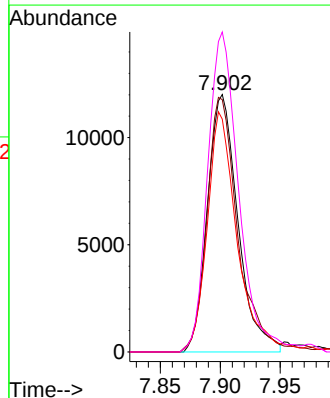
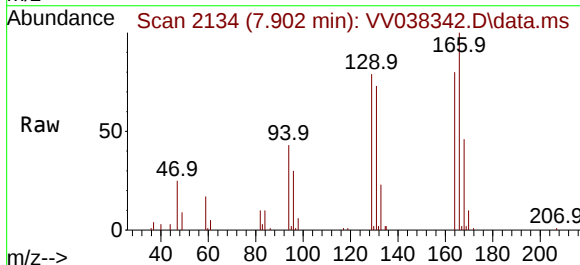
Ion Ratio Lower Upper

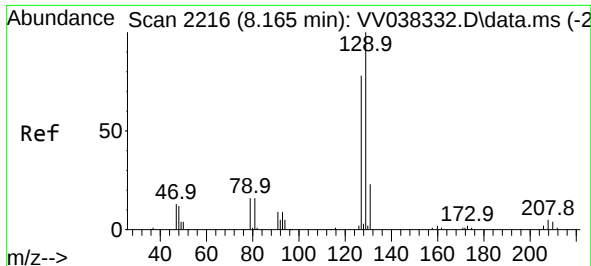
164 100

129 98.0 68.5 127.1

131 90.5 64.8 120.4

166 124.3 88.3 163.9





#49

Dibromochloromethane

Concen: 1.371 ug/L

RT: 7.899 min Scan# 2133

Delta R.T. -0.267 min

Lab File: VV038342.D

Acq: 25 Nov 2024 14:27

Instrument :

MSVOA\_V

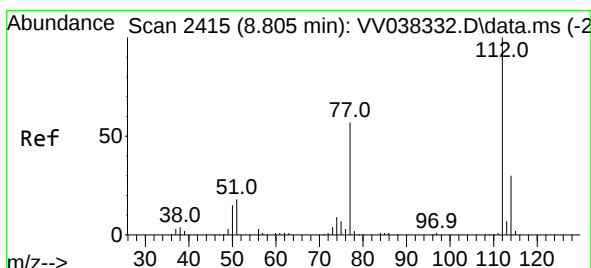
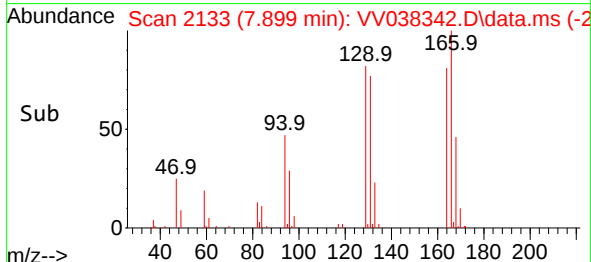
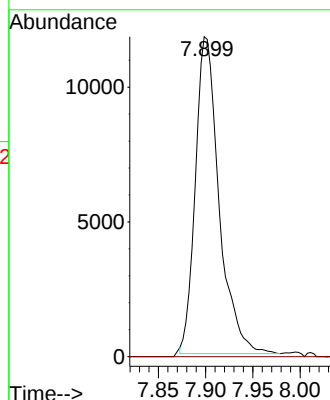
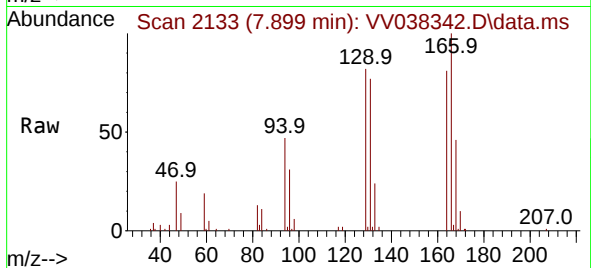
ClientSampleId :

Tgt Ion:129 Resp: 20513

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.3#



#51

Chlorobenzene

Concen: 0.154 ug/L

RT: 8.815 min Scan# 2418

Delta R.T. 0.010 min

Lab File: VV038342.D

Acq: 25 Nov 2024 14:27

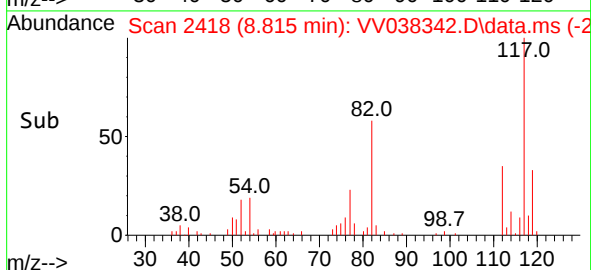
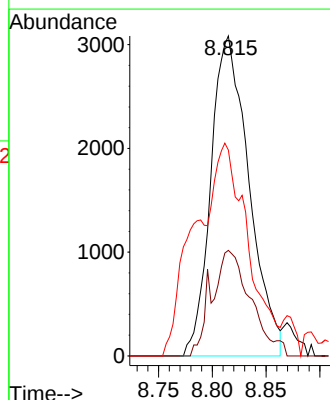
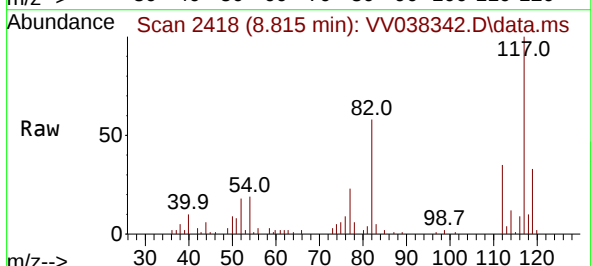
Tgt Ion:112 Resp: 7606

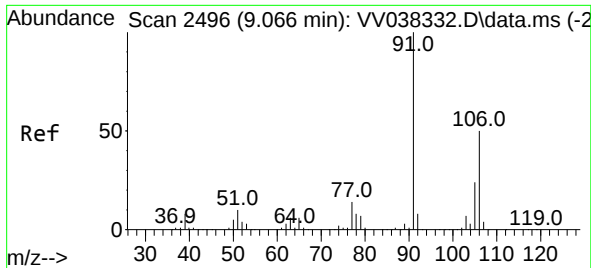
Ion Ratio Lower Upper

112 100

114 33.0 22.0 40.8

77 64.3 45.0 67.4

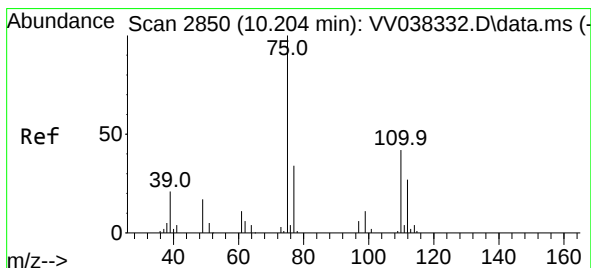
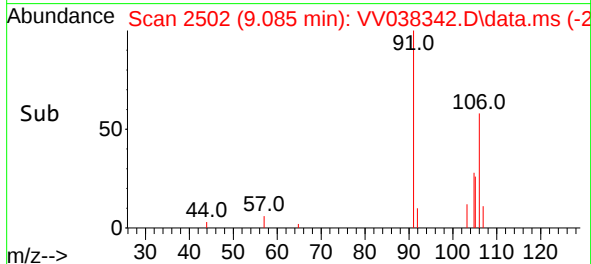
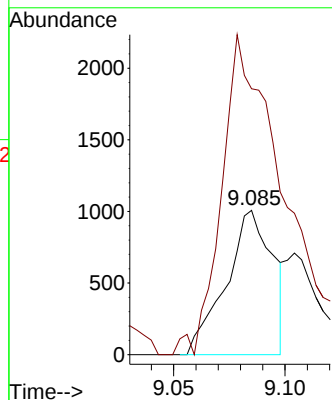
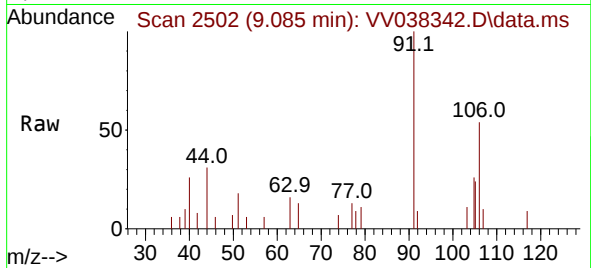




#53  
m,p-Xylene  
Concen: 0.051 ug/L  
RT: 9.085 min Scan# 21  
Delta R.T. 0.019 min  
Lab File: VV038342.D  
Acq: 25 Nov 2024 14:27

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:106 Resp: 1463  
Ion Ratio Lower Upper  
106 100  
91 184.2 138.7 257.5



#61  
1,2,3-Trichloropropane  
Concen: 1.309 ug/L  
RT: 11.178 min Scan# 3153  
Delta R.T. 0.974 min  
Lab File: VV038342.D  
Acq: 25 Nov 2024 14:27

Tgt Ion: 75 Resp: 10904  
Ion Ratio Lower Upper  
75 100  
77 14.1 26.4 39.6#  
110 3.0 32.3 48.5#

