

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW071723\  
 Data File : VW031709.D  
 Acq On : 17 Jul 2023 10:53  
 Operator : SY/MD  
 Sample : 03573-02  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT3-2023-06

Quant Time: Jul 18 06:30:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Jul 18 06:24:32 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/18/2023  
 Supervised By : Mahesh Dadoda 07/18/2023

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.539  | 114   | 168188   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.792  | 117   | 177902   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191 | 152   | 72353    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 67542    | 4.535    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 90.600%  |
| 7) Chloroethane-d5            | 1.532  | 69    | 67204    | 4.978    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 99.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.060  | 65    | 35530    | 4.648    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 93.000%  |
| 20) 2-Butanone-d5             | 3.828  | 46    | 177593m  | 46.671   | ug/L   | 0.01     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 93.340%  |
| 24) Chloroform-d              | 4.256  | 84    | 138554   | 4.367    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.400%  |
| 26) 1,2-Dichloroethane-d4     | 4.950  | 65    | 72200    | 4.455    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 89.000%  |
| 32) Benzene-d6                | 4.966  | 84    | 226223   | 4.454    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.000%  |
| 36) 1,2-Dichloropropane-d6    | 5.995  | 67    | 83109    | 4.415    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 88.400%  |
| 41) Toluene-d8                | 7.249  | 98    | 174736   | 3.746    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 75.000%  |
| 43) trans-1,3-Dichloroprop... | 7.561  | 79    | 26139    | 4.397    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 88.000%  |
| 46) 2-Hexanone-d5             | 8.034  | 63    | 106802   | 38.681   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 77.360%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159 | 84    | 64483    | 4.669    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 93.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567 | 152   | 64000    | 5.079    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 101.600% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.108  | 85    | 5189     | 0.284    | ug/L   | 98       |
| 3) Chloromethane              | 1.217  | 50    | 6857     | 0.362    | ug/L   | 91       |
| 5) Vinyl chloride             | 1.281  | 62    | 4806m    | 0.266    | ug/L   |          |
| 6) Bromomethane               | 1.487  | 94    | 3407     | 0.308    | ug/L   | 99       |
| 8) Chloroethane               | 1.548  | 64    | 3080     | 0.294    | ug/L   | 91       |
| 9) Trichlorofluoromethane     | 1.712  | 101   | 8132     | 0.312    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066  | 101   | 5448     | 0.380    | ug/L   | 90       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 4946     | 0.377    | ug/L # | 1        |
| 13) Acetone                   | 2.166  | 43    | 7977m    | 3.295    | ug/L   |          |
| 14) Carbon disulfide          | 2.246  | 76    | 7238m    | 0.178    | ug/L   |          |
| 15) Methyl Acetate            | 2.397  | 43    | 1133     | 0.219    | ug/L # | 87       |
| 16) Methylene chloride        | 2.452  | 84    | 5041     | 0.289    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 2.712  | 73    | 5503     | 0.228    | ug/L # | 69       |
| 18) trans-1,2-Dichloroethene  | 2.699  | 96    | 3279     | 0.289    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.117  | 63    | 7215     | 0.291    | ug/L # | 76       |
| 21) 2-Butanone                | 3.931  | 43    | 9258m    | 2.938    | ug/L   |          |
| 22) cis-1,2-Dichloroethene    | 3.815  | 96    | 3378     | 0.301    | ug/L # | 86       |
| 23) Bromochloromethane        | 4.156  | 128   | 1408     | 0.249    | ug/L   | 73       |
| 27) 1,2-Dichloroethane        | 5.069  | 62    | 4805     | 0.313    | ug/L # | 76       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV071723\  
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 Sample : 03573-02  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT3-2023-06

Quant Time: Jul 18 06:30:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Jul 18 06:24:32 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/18/2023  
 Supervised By : Mahesh Dadoda 07/18/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 29) 1,1,1-Trichloroethane     | 4.519  | 97   | 6645     | 0.309 | ug/L # | 67       |
| 30) Cyclohexane               | 4.593  | 56   | 3450m    | 0.221 | ug/L   |          |
| 31) Carbon tetrachloride      | 4.741  | 117  | 5316     | 0.280 | ug/L   | 94       |
| 33) Benzene                   | 5.021  | 78   | 12292    | 0.272 | ug/L   | 100      |
| 34) Trichloroethene           | 5.841  | 95   | 2996     | 0.234 | ug/L   | 87       |
| 35) Methylcyclohexane         | 6.050  | 83   | 2014     | 0.127 | ug/L # | 12       |
| 37) 1,2-Dichloropropane       | 6.108  | 63   | 4644     | 0.358 | ug/L # | 96       |
| 38) Bromodichloromethane      | 6.445  | 83   | 4966     | 0.288 | ug/L # | 95       |
| 39) cis-1,3-Dichloropropene   | 6.976  | 75   | 3649     | 0.226 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone      | 7.175  | 43   | 13874    | 2.001 | ug/L # | 88       |
| 42) Toluene                   | 7.326  | 91   | 8793     | 0.201 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene | 7.599  | 75   | 3413m    | 0.242 | ug/L   |          |
| 45) 1,1,2-Trichloroethane     | 7.783  | 97   | 2813     | 0.292 | ug/L # | 67       |
| 47) Tetrachloroethene         | 7.915  | 164  | 2894     | 0.327 | ug/L # | 77       |
| 48) 2-Hexanone                | 8.091  | 43   | 23875m   | 4.699 | ug/L   |          |
| 49) Dibromochloromethane      | 8.185  | 129  | 2212     | 0.214 | ug/L   | 95       |
| 50) 1,2-Dibromoethane         | 8.297  | 107  | 2483     | 0.276 | ug/L # | 77       |
| 51) Chlorobenzene             | 8.825  | 112  | 8460     | 0.294 | ug/L # | 83       |
| 52) Ethylbenzene              | 8.956  | 91   | 10034    | 0.232 | ug/L   | 99       |
| 53) m,p-Xylene                | 9.082  | 106  | 3304     | 0.207 | ug/L   | 72       |
| 54) o-Xylene                  | 9.487  | 106  | 3416     | 0.230 | ug/L   | 93       |
| 55) Styrene                   | 9.509  | 104  | 5066     | 0.181 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 3443     | 0.338 | ug/L # | 70       |
| 59) Bromoform                 | 9.677  | 173  | 1149     | 0.238 | ug/L # | 59       |
| 60) Isopropylbenzene          | 9.876  | 105  | 8579m    | 0.268 | ug/L   |          |
| 61) 1,2,3-Trichloropropane    | 10.223 | 75   | 2313     | 0.360 | ug/L # | 67       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 6207     | 0.240 | ug/L   | 91       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 6567     | 0.254 | ug/L # | 79       |
| 64) 1,3-Dichlorobenzene       | 11.127 | 146  | 4821     | 0.279 | ug/L   | 94       |
| 65) 1,4-Dichlorobenzene       | 11.217 | 146  | 5626     | 0.308 | ug/L   | 92       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 5492     | 0.332 | ug/L # | 90       |
| 68) 1,2-Dibromo-3-chloropr... | 12.381 | 75   | 396      | 0.300 | ug/L # | 22       |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 4077     | 0.323 | ug/L # | 95       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 3096     | 0.309 | ug/L   | 90       |
| 71) Naphthalene               | 13.451 | 128  | 4621     | 0.286 | ug/L # | 87       |
| 72) 1,2,3-Trichlorobenzene    | 13.689 | 180  | 2844     | 0.308 | ug/L # | 96       |

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

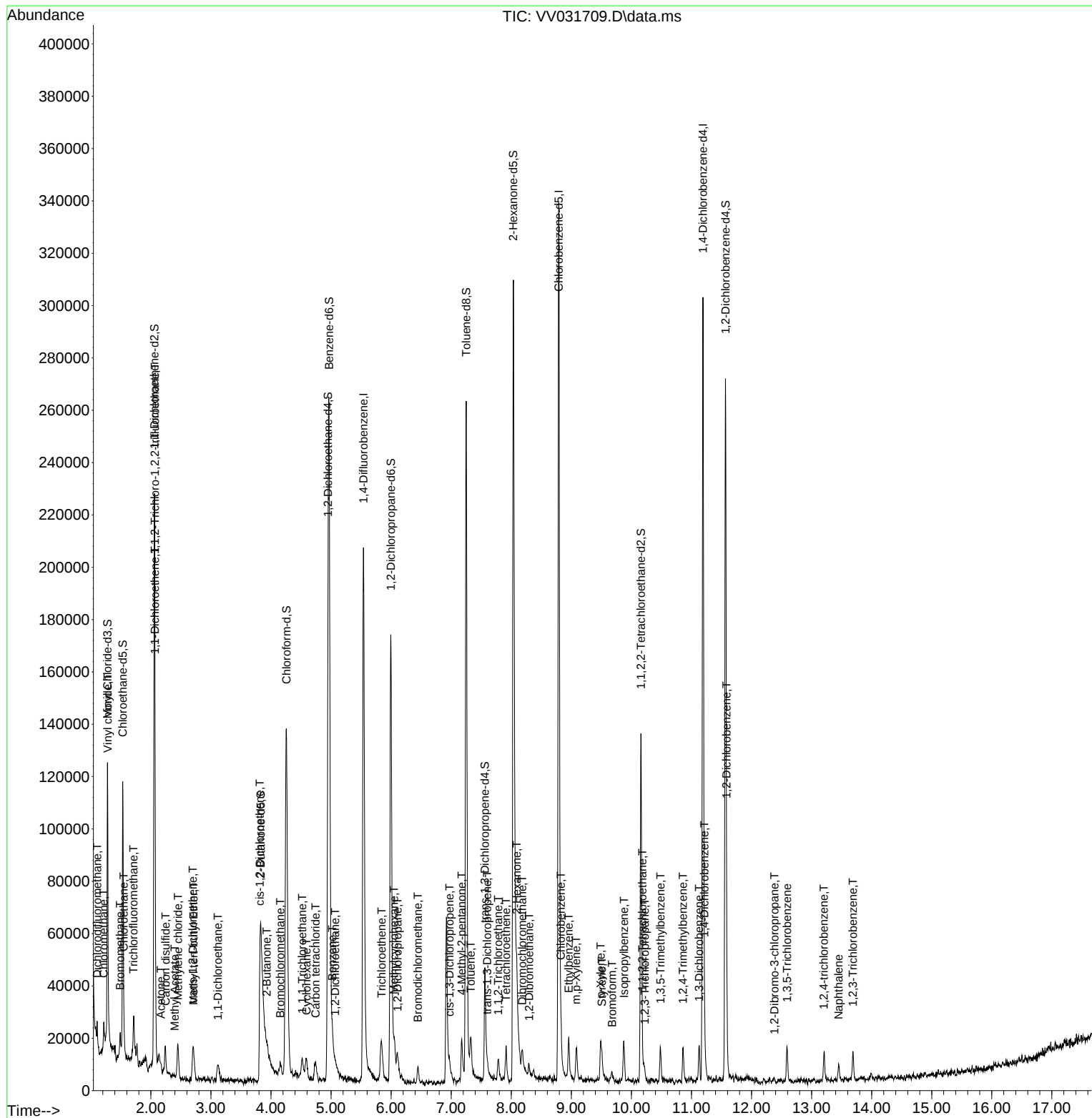
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Data File : VV031709.D  
Acq On : 17 Jul 2023 10:53  
Operator : SY/MD  
Sample : 03573-02  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 5 Sample Multiplier: 1

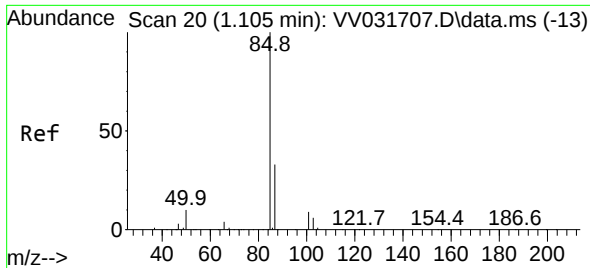
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06

Quant Time: Jul 18 06:30:29 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071323WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Jul 18 06:24:32 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

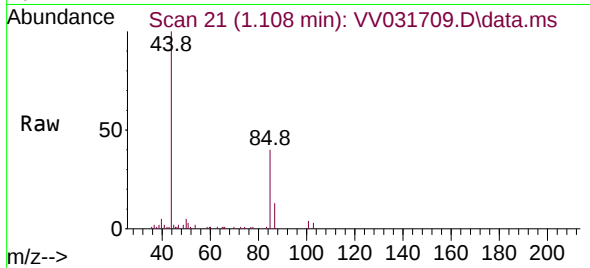
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023





#2  
 Dichlorodifluoromethane  
 Concen: 0.284 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: VV031709.D  
 Acq: 17 Jul 2023 10:53

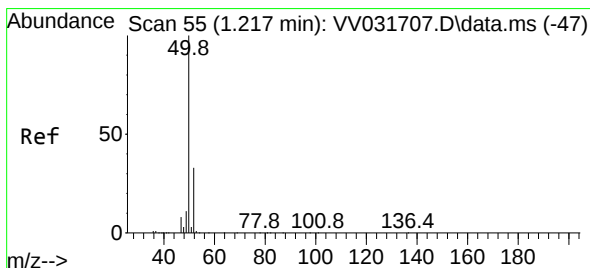
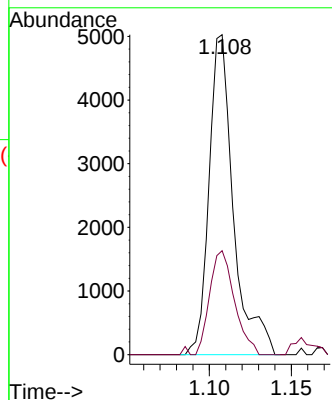
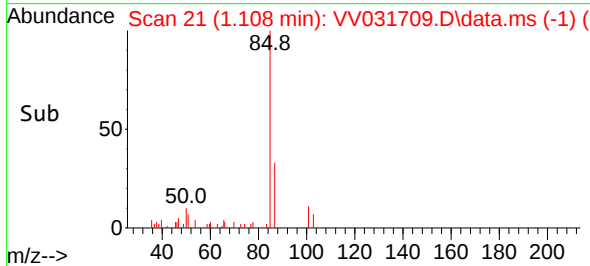
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT3-2023-06



Tgt Ion: 85 Resp: 5189  
 Ion Ratio Lower Upper  
 85 100  
 87 33.1 25.5 38.3

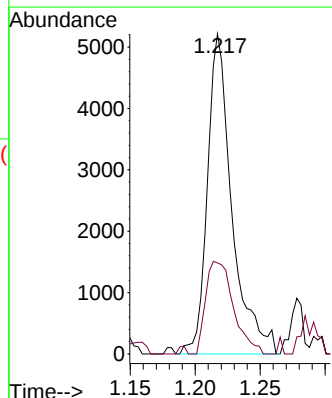
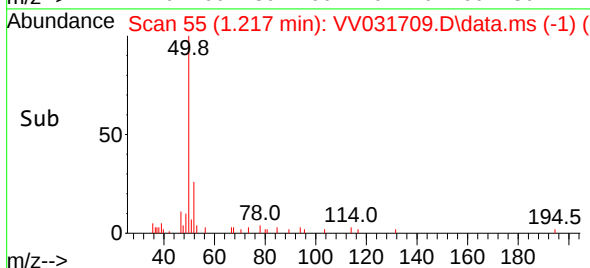
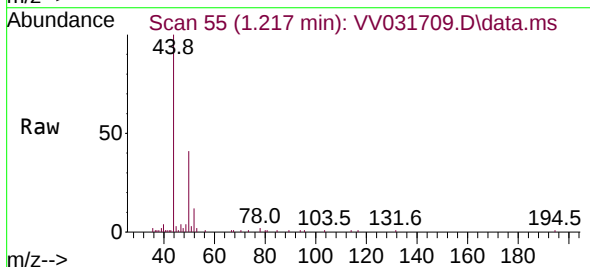
Manual Integrations  
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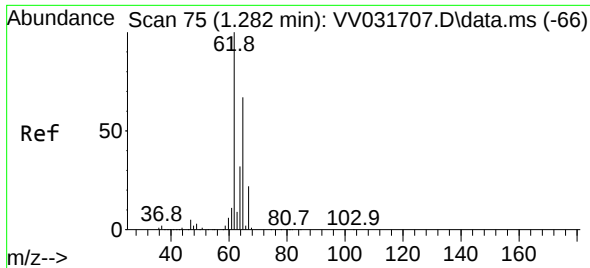
Reviewed By :John Carlone 07/18/2023  
 Supervised By :Mahesh Dadoda 07/18/2023



#3  
 Chloromethane  
 Concen: 0.362 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. -0.000 min  
 Lab File: VV031709.D  
 Acq: 17 Jul 2023 10:53

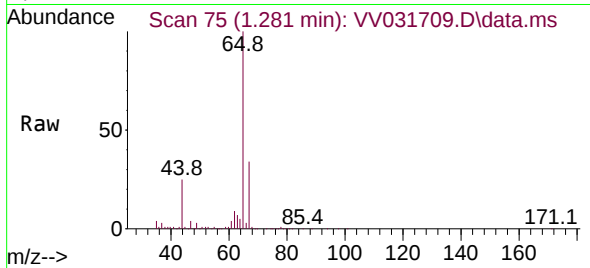
Tgt Ion: 50 Resp: 6857  
 Ion Ratio Lower Upper  
 50 100  
 52 28.4 23.5 43.7





#5  
 Vinyl chloride  
 Concen: 0.266 ug/L m  
 RT: 1.281 min Scan# 71  
 Delta R.T. -0.000 min  
 Lab File: VV031709.D  
 Acq: 17 Jul 2023 10:53

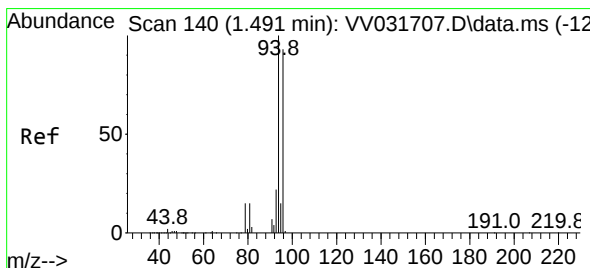
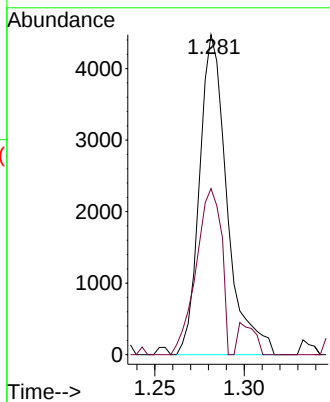
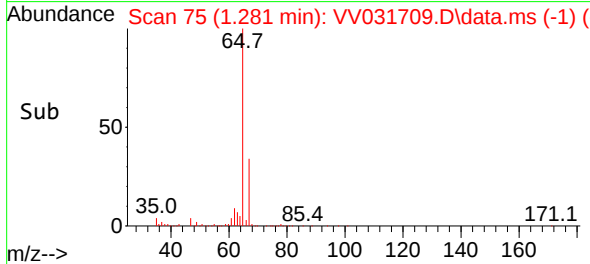
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT3-2023-06



Tgt Ion: 62 Resp: 4800  
 Ion Ratio Lower Upper  
 62 100  
 64 1150.1 71.7 133.1

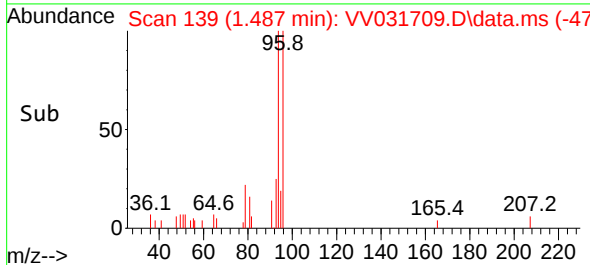
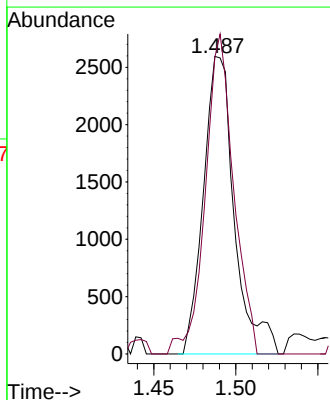
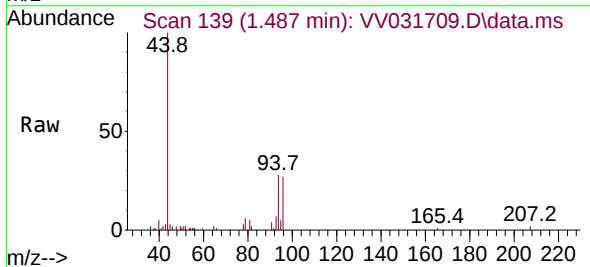
Manual Integrations  
 APPROVED

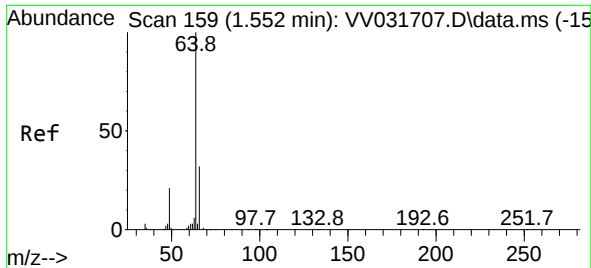
Reviewed By :John Carlone 07/18/2023  
 Supervised By :Mahesh Dadoda 07/18/2023



#6  
 Bromomethane  
 Concen: 0.308 ug/L  
 RT: 1.487 min Scan# 139  
 Delta R.T. -0.003 min  
 Lab File: VV031709.D  
 Acq: 17 Jul 2023 10:53

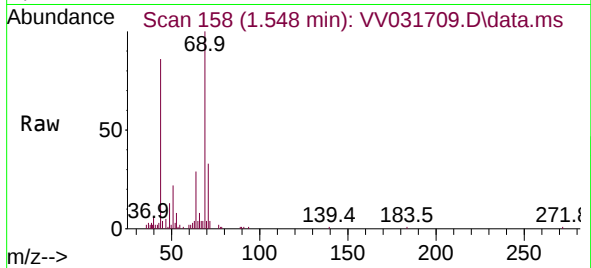
Tgt Ion: 94 Resp: 3407  
 Ion Ratio Lower Upper  
 94 100  
 96 99.7 69.4 128.8





#8  
Chloroethane  
Concen: 0.294 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

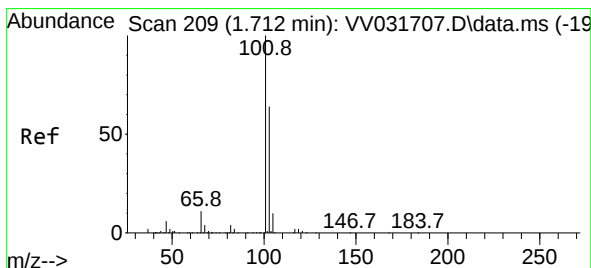
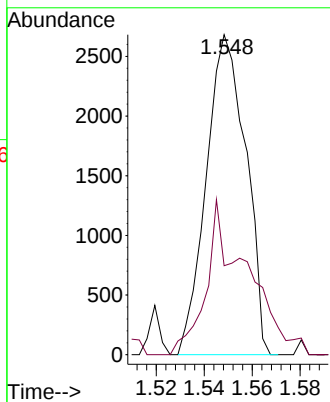
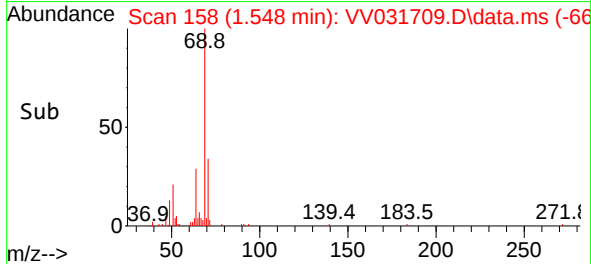
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



Tgt Ion: 64 Resp: 3080  
Ion Ratio Lower Upper  
64 100  
66 27.8 23.0 42.6

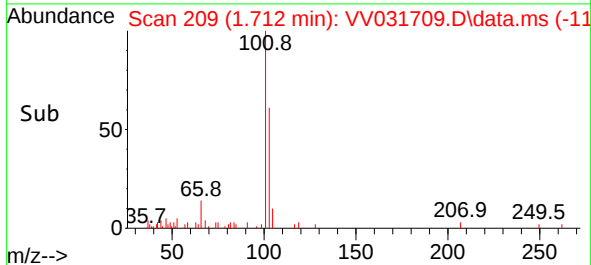
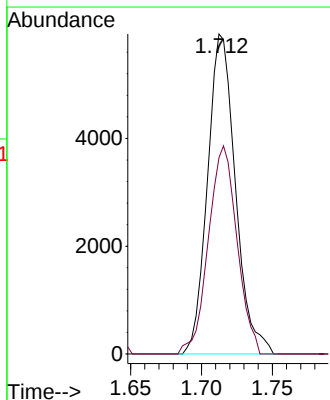
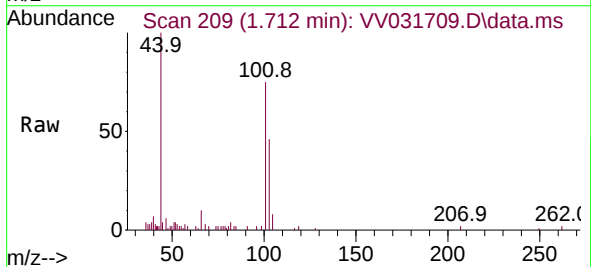
Manual Integrations  
APPROVED

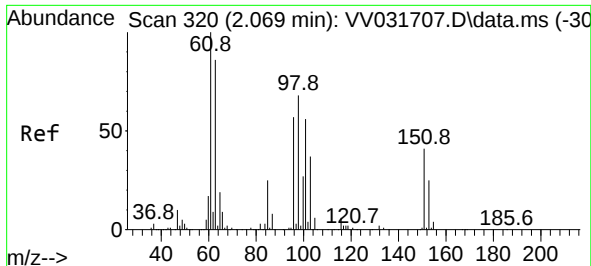
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#9  
Trichlorofluoromethane  
Concen: 0.312 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. -0.000 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Tgt Ion:101 Resp: 8132  
Ion Ratio Lower Upper  
101 100  
103 66.7 51.0 76.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.380 ug/L

RT: 2.066 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT3-2023-06

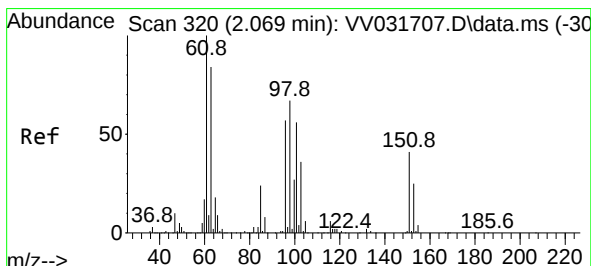
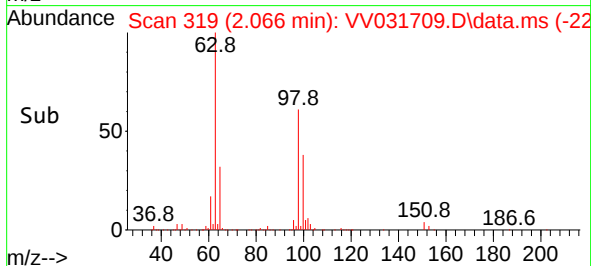
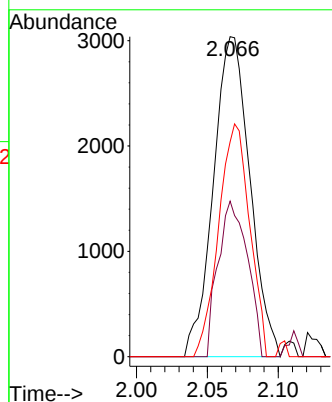
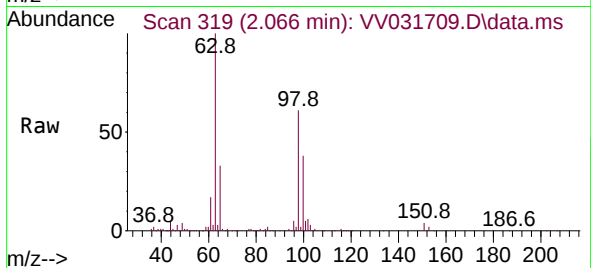
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|-----------|-------|-------|------|
| Tgt Ion:  | 101   | Resp: | 544  |
| Ion Ratio | Lower | Upper |      |
| 101       | 100   |       |      |
| 85        | 39.0  | 36.2  | 54.2 |
| 151       | 61.7  | 56.6  | 84.8 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#12

1,1-Dichloroethene

Concen: 0.377 ug/L

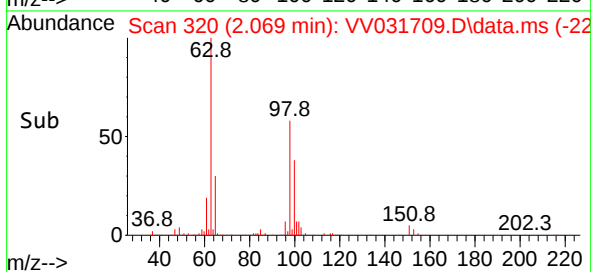
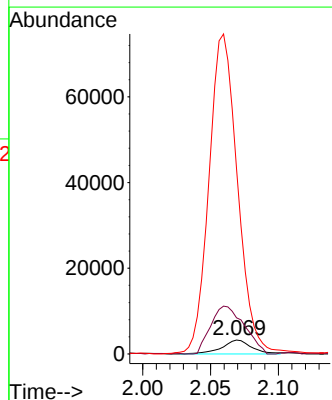
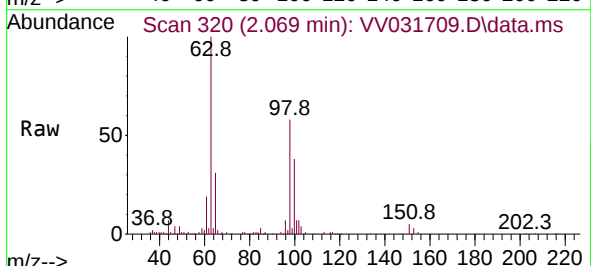
RT: 2.069 min Scan# 320

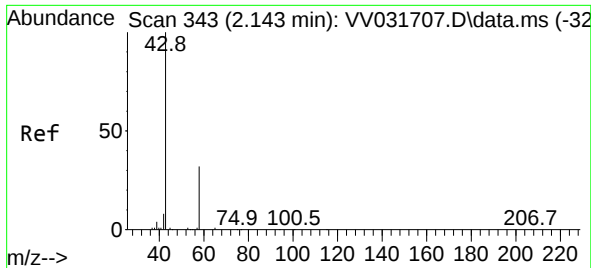
Delta R.T. -0.000 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

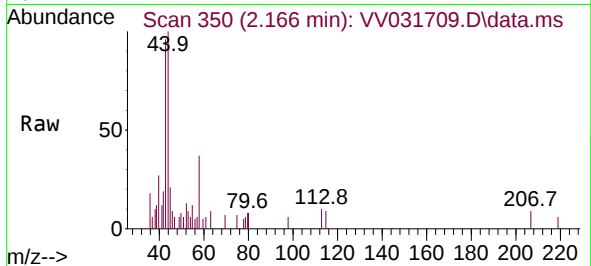
|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 4946   |
| Ion Ratio | Lower  | Upper |        |
| 96        | 100    |       |        |
| 61        | 260.4  | 131.3 | 243.9# |
| 63        | 1335.6 | 112.6 | 209.2# |





#13  
Acetone  
Concen: 3.295 ug/L m  
RT: 2.166 min Scan# 31  
Delta R.T. 0.022 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

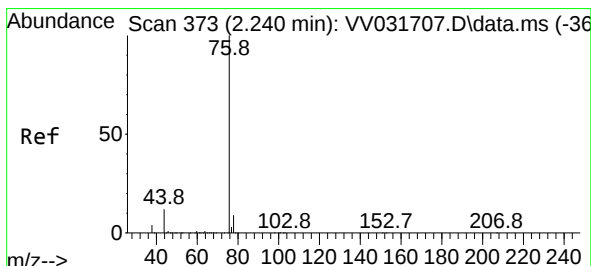
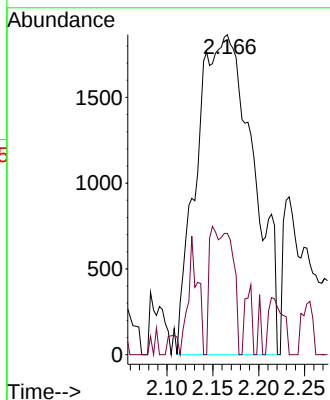
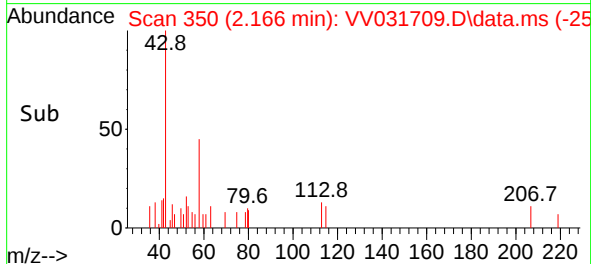
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



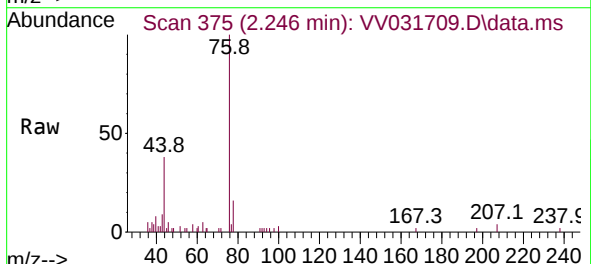
Tgt Ion: 43 Resp: 797  
Ion Ratio Lower Upper  
43 100  
58 6.8 0.0 64.6

Manual Integrations  
APPROVED

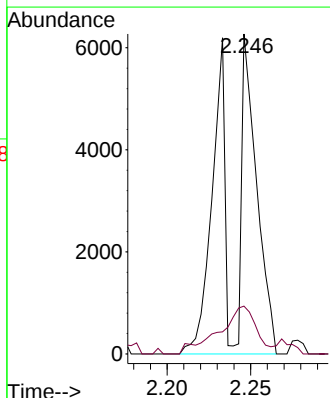
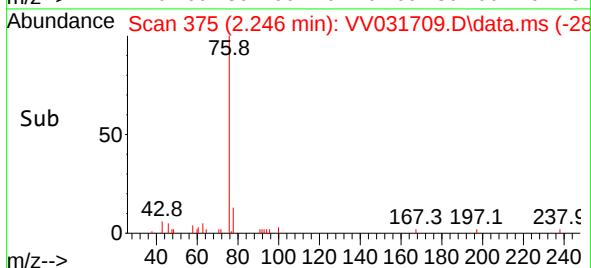
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023

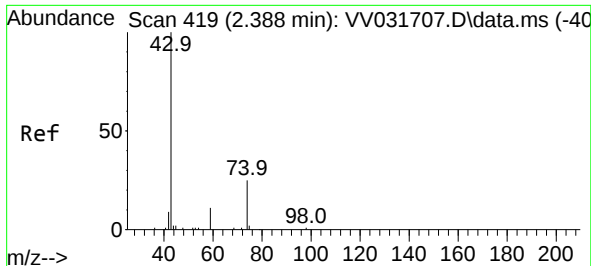


#14  
Carbon disulfide  
Concen: 0.178 ug/L m  
RT: 2.246 min Scan# 375  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53



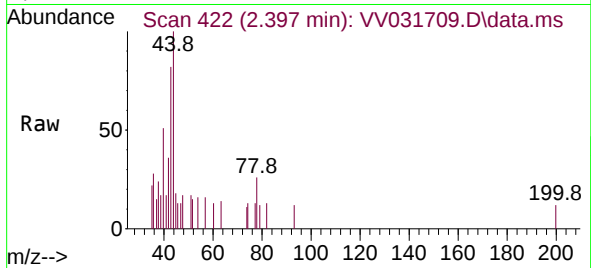
Tgt Ion: 76 Resp: 7238  
Ion Ratio Lower Upper  
76 100  
78 15.6 7.4 11.2#





#15  
Methyl Acetate  
Concen: 0.219 ug/L  
RT: 2.397 min Scan# 419  
Delta R.T. 0.010 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

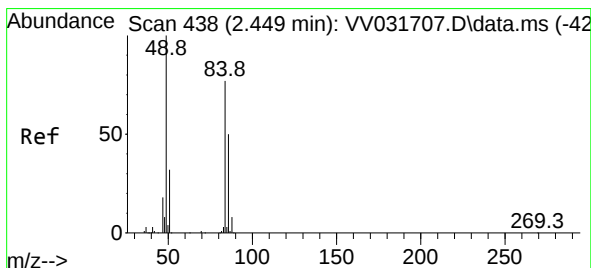
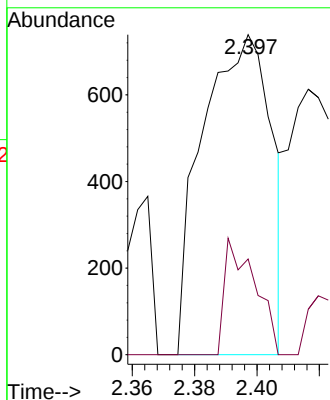
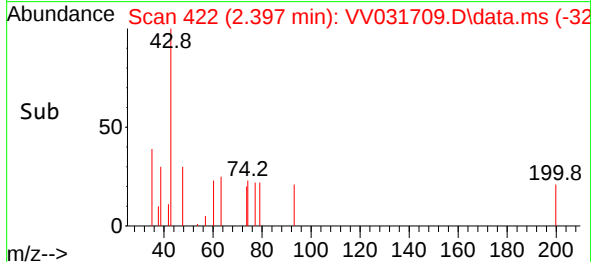
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



Tgt Ion: 43 Resp: 113  
Ion Ratio Lower Upper  
43 100  
74 16.2 18.0 27.0

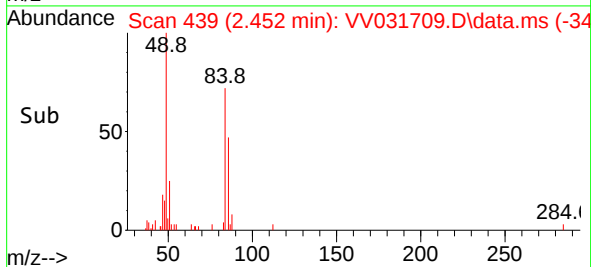
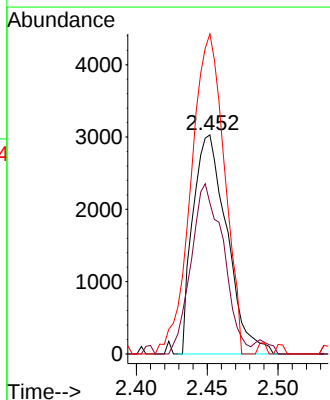
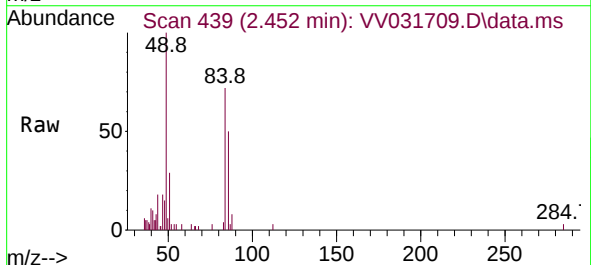
Manual Integrations  
APPROVED

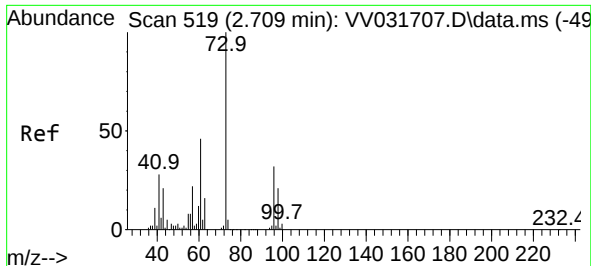
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#16  
Methylene chloride  
Concen: 0.289 ug/L  
RT: 2.452 min Scan# 439  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Tgt Ion: 84 Resp: 5041  
Ion Ratio Lower Upper  
84 100  
86 68.9 46.3 86.1  
49 146.1 101.8 189.0





#17

Methyl tert-butyl Ether

Concen: 0.228 ug/L

RT: 2.712 min Scan# 519

Delta R.T. 0.003 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT3-2023-06

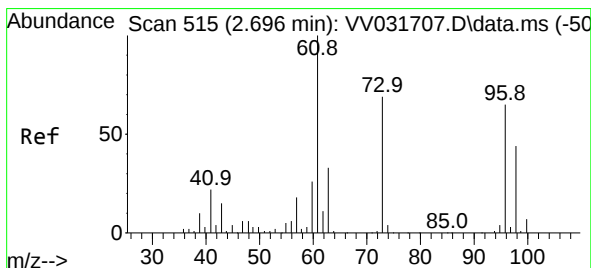
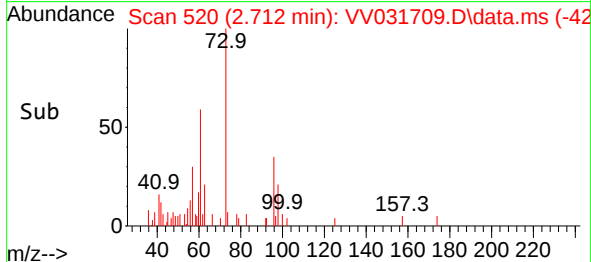
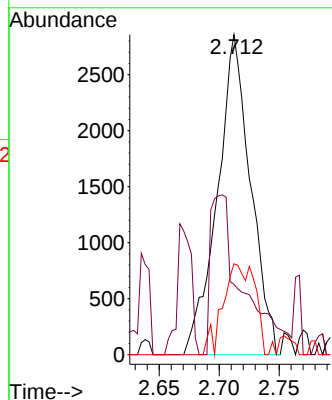
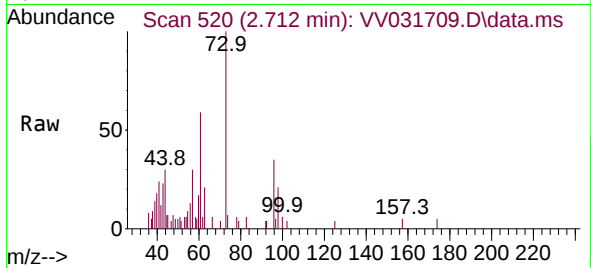
|             |             |
|-------------|-------------|
| Tgt Ion: 73 | Resp: 550   |
| Ion Ratio   | Lower Upper |
| 73 100      |             |
| 43 47.6     | 18.1 27.1   |
| 57 19.1     | 19.6 29.4   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#18

trans-1,2-Dichloroethene

Concen: 0.289 ug/L

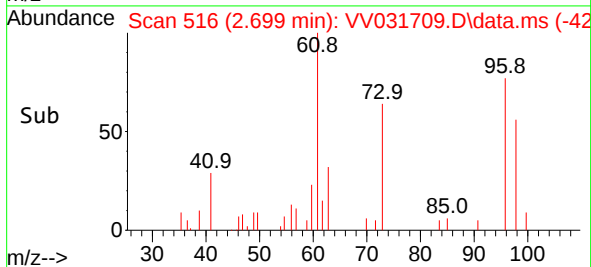
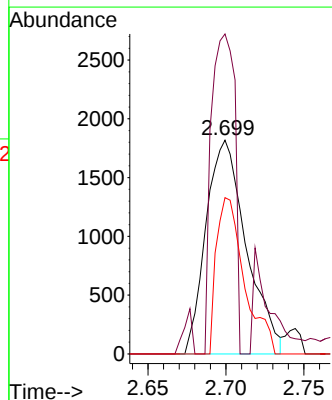
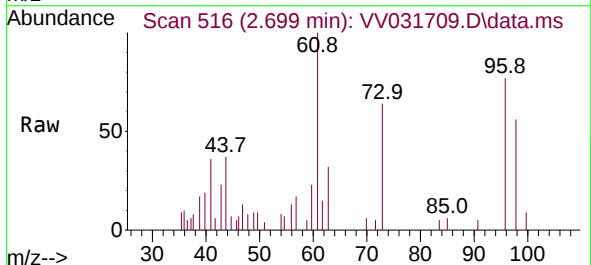
RT: 2.699 min Scan# 516

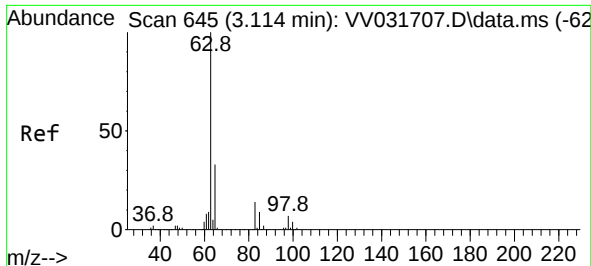
Delta R.T. 0.003 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

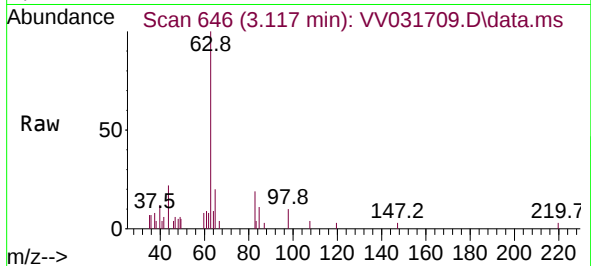
|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 3279  |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 149.7    | 105.5 195.9 |
| 98 73.1     | 45.4 84.2   |





#19  
1,1-Dichloroethane  
Concen: 0.291 ug/L  
RT: 3.117 min Scan# 645  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

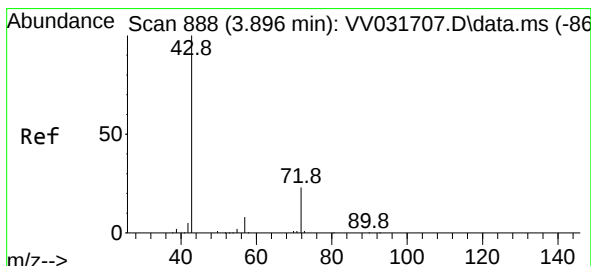
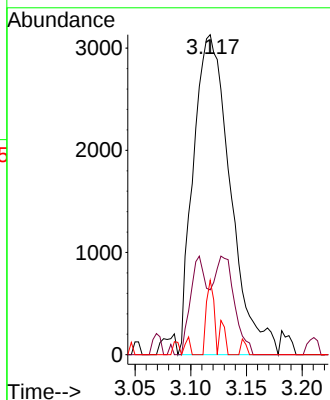
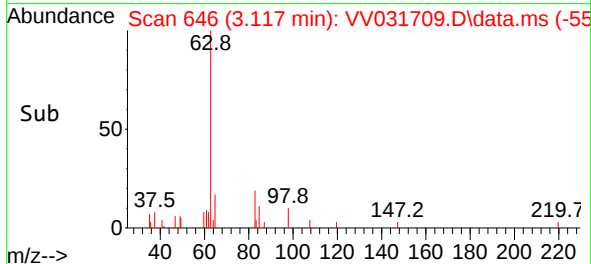
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



Tgt Ion: 63 Resp: 7215  
Ion Ratio Lower Upper  
63 100  
65 20.3 23.4 43.6  
83 23.2 9.4 17.4

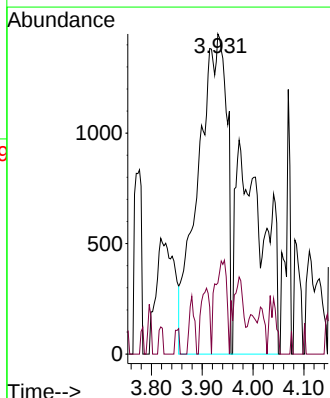
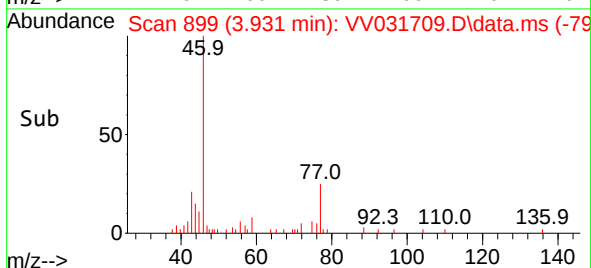
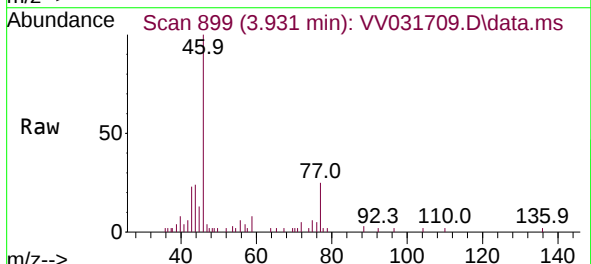
Manual Integrations  
APPROVED

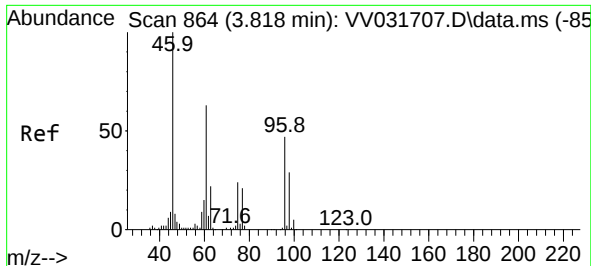
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#21  
2-Butanone  
Concen: 2.938 ug/L m  
RT: 3.931 min Scan# 899  
Delta R.T. 0.035 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

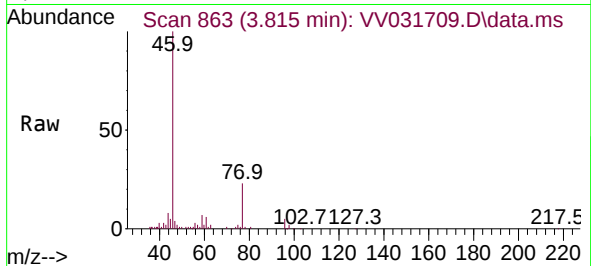
Tgt Ion: 43 Resp: 9258  
Ion Ratio Lower Upper  
43 100  
72 3.6 9.2 27.4





#22  
cis-1,2-Dichloroethene  
Concen: 0.301 ug/L  
RT: 3.815 min Scan# 863  
Delta R.T. -0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

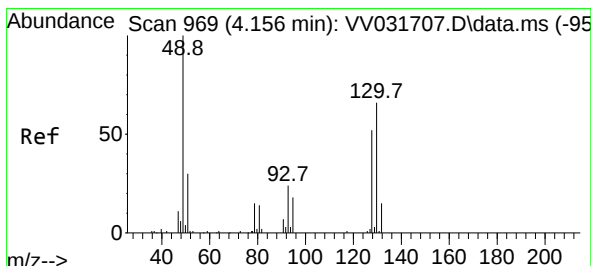
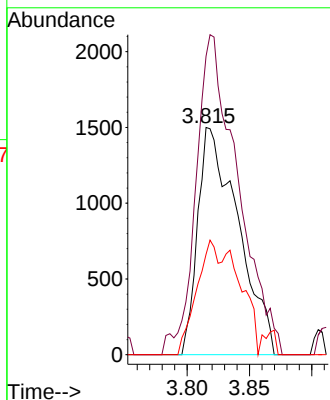
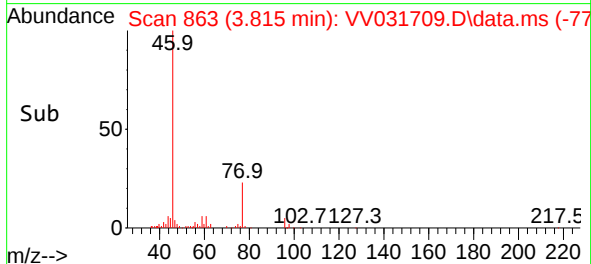
Instrument : MSVOA\_V  
ClientSampleId : MDL-WATER-QT3-2023-06



Tgt Ion: 96 Resp: 3378  
Ion Ratio Lower Upper  
96 100  
61 131.3 99.4 184.6  
98 44.1 45.1 83.7

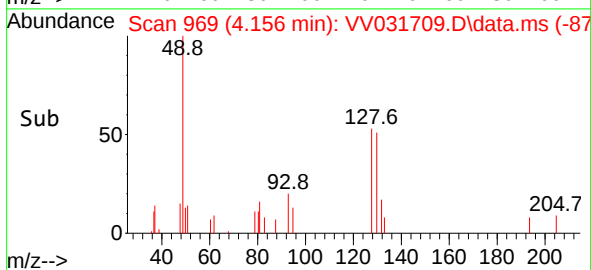
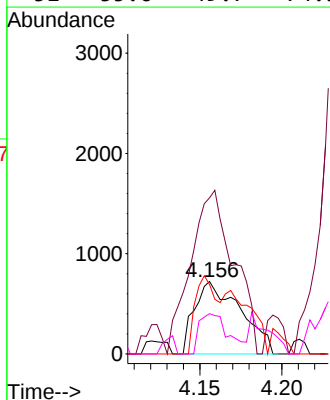
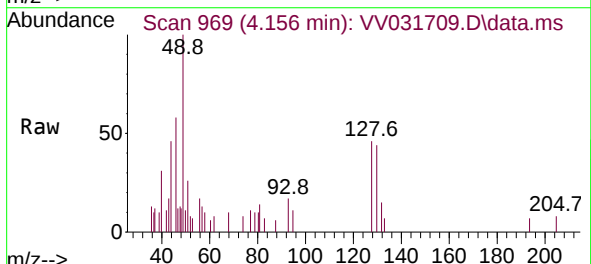
Manual Integrations  
APPROVED

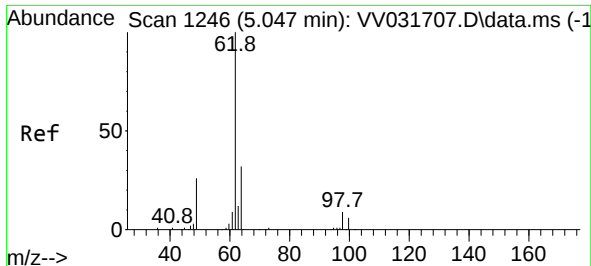
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#23  
Bromochloromethane  
Concen: 0.249 ug/L  
RT: 4.156 min Scan# 969  
Delta R.T. -0.000 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Tgt Ion:128 Resp: 1408  
Ion Ratio Lower Upper  
128 100  
49 240.0 136.1 252.7  
130 95.7 91.3 169.5  
51 55.6 49.7 74.5





#27

1,2-Dichloroethane

Concen: 0.313 ug/L

RT: 5.069 min Scan# 11

Delta R.T. 0.022 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT3-2023-06

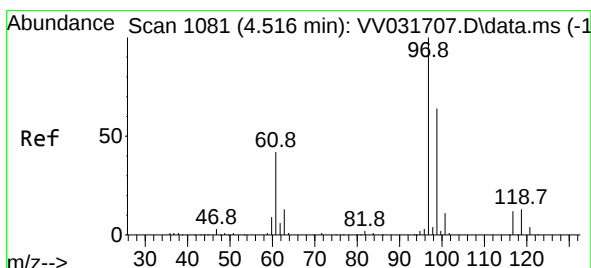
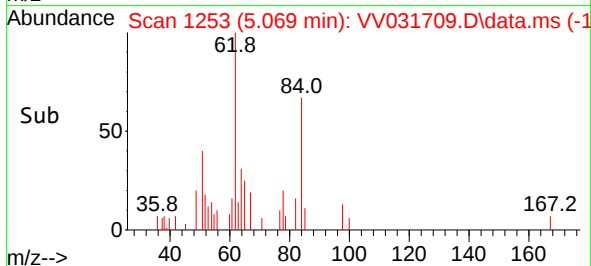
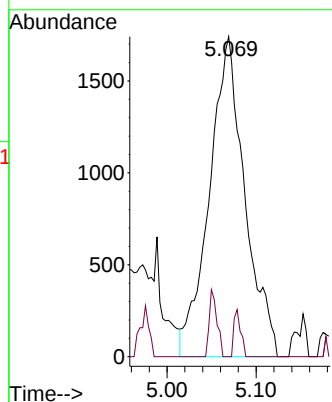
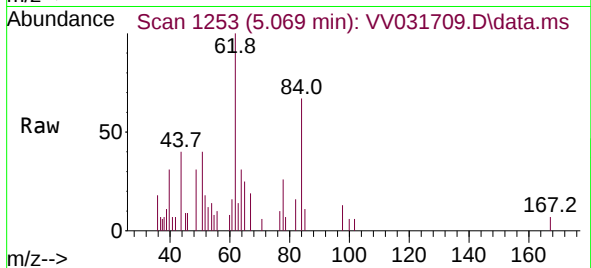
Tgt Ion: 62 Resp: 480  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#29

1,1,1-Trichloroethane

Concen: 0.309 ug/L

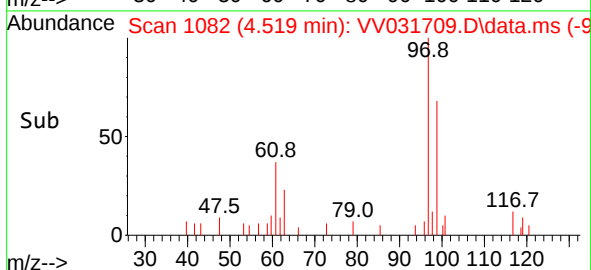
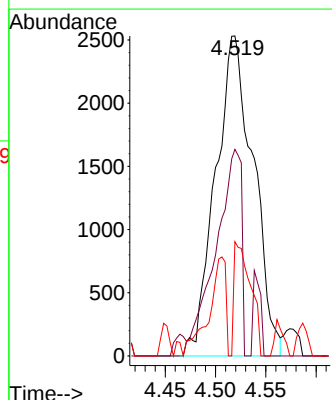
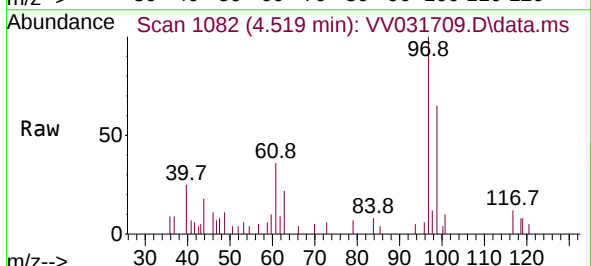
RT: 4.519 min Scan# 1082

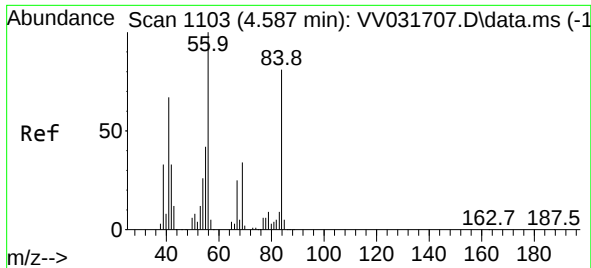
Delta R.T. 0.003 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

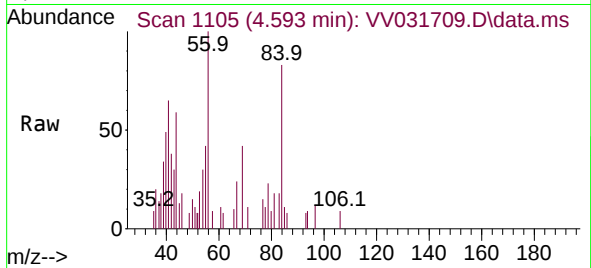
Tgt Ion: 97 Resp: 6645  
 Ion Ratio Lower Upper  
 97 100  
 99 43.5 50.4 75.6#  
 61 15.6 35.6 53.4#





#30  
Cyclohexane  
Concen: 0.221 ug/L m  
RT: 4.593 min Scan# 1105  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

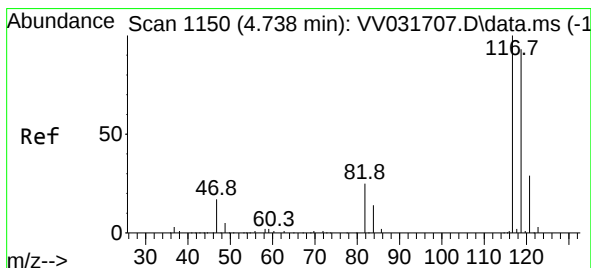
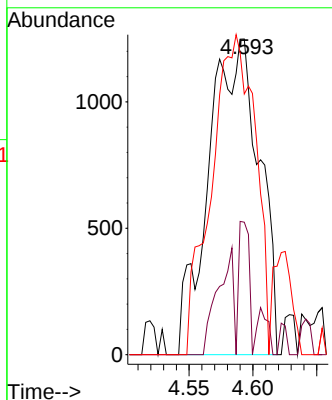
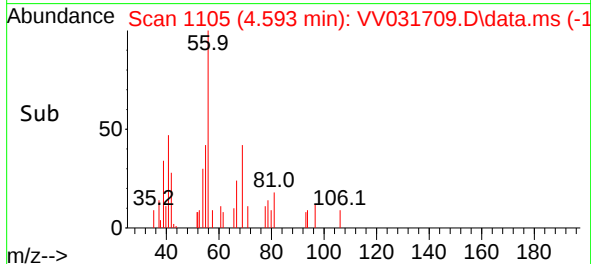
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



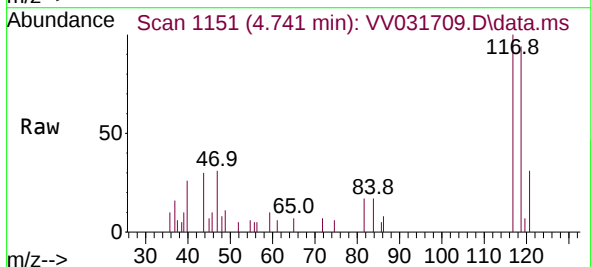
Tgt Ion: 56 Resp: 3450  
Ion Ratio Lower Upper  
56 100  
69 9.1 22.9 34.3  
84 87.7 62.7 94.1

Manual Integrations  
APPROVED

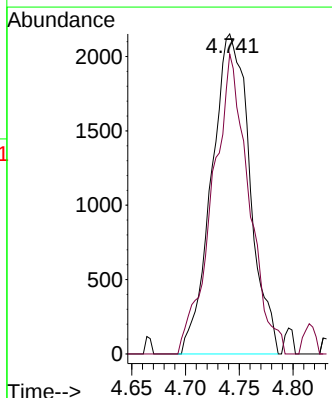
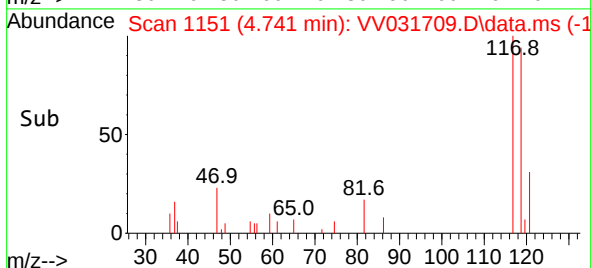
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023

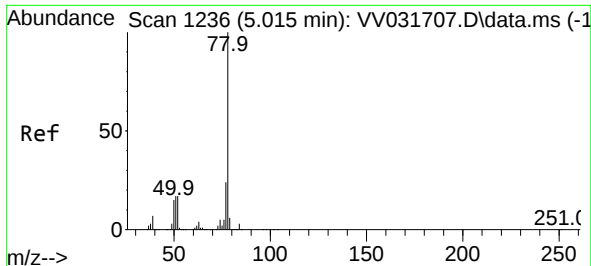


#31  
Carbon tetrachloride  
Concen: 0.280 ug/L  
RT: 4.741 min Scan# 1151  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53



Tgt Ion: 117 Resp: 5316  
Ion Ratio Lower Upper  
117 100  
119 89.7 76.1 114.1





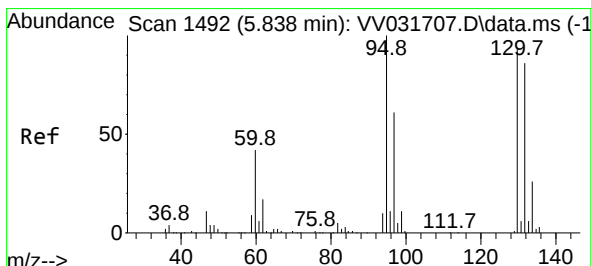
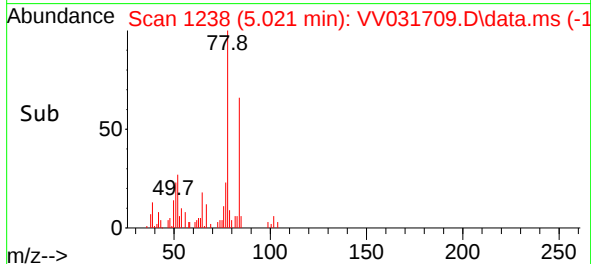
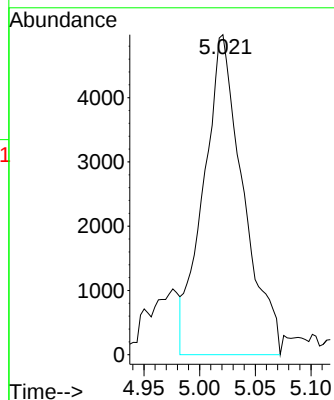
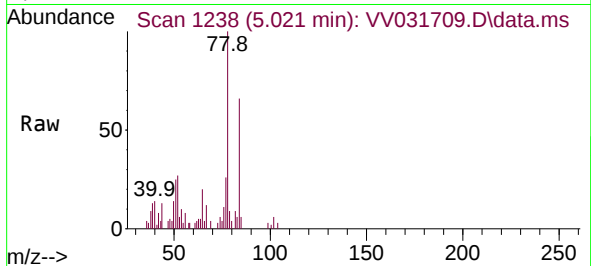
#33  
Benzene  
Concen: 0.272 ug/L  
RT: 5.021 min Scan# 1236  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Instrument : MSVOA\_V  
ClientSampleId : MDL-WATER-QT3-2023-06

Tgt Ion: 78 Resp: 1229

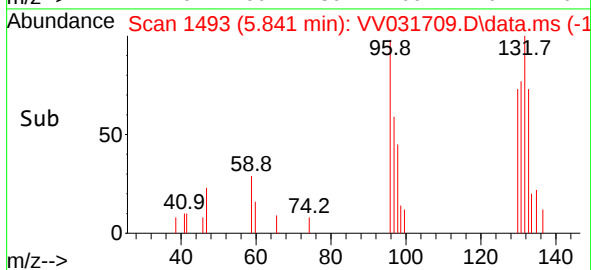
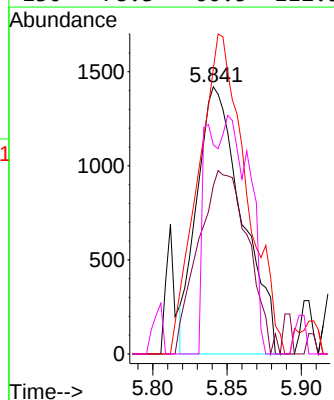
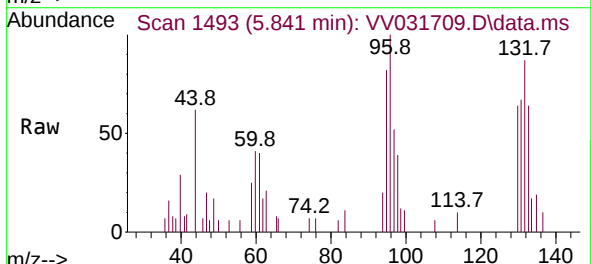
Manual Integrations  
APPROVED

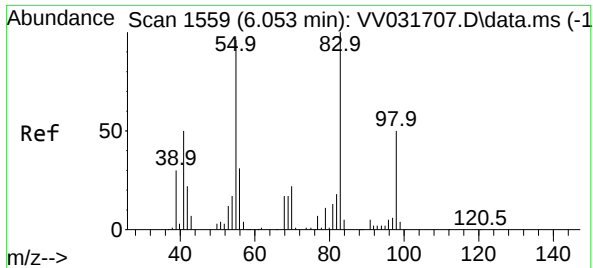
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#34  
Trichloroethene  
Concen: 0.234 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

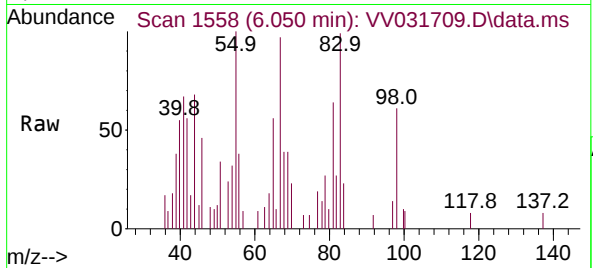
Tgt Ion: 95 Resp: 2996  
Ion Ratio Lower Upper  
95 100  
97 63.0 43.3 80.5  
132 106.8 58.3 108.3  
130 78.3 60.5 112.5





#35  
Methylcyclohexane  
Concen: 0.127 ug/L  
RT: 6.050 min Scan# 1558  
Delta R.T. -0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

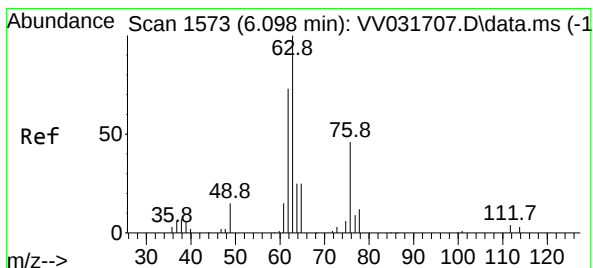
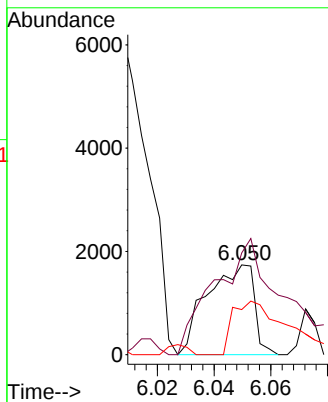
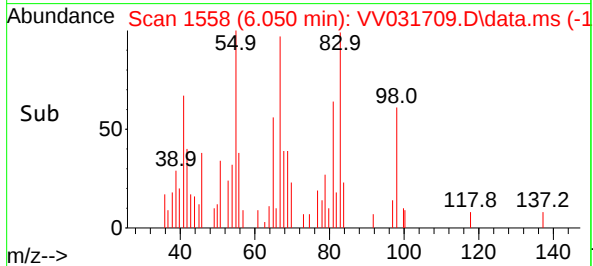
Instrument : MSVOA\_V  
ClientSampleId : MDL-WATER-QT3-2023-06



Tgt Ion: 83 Resp: 2014  
Ion Ratio Lower Upper  
83 100  
55 194.6 73.8 110.6  
98 74.0 35.1 52.7

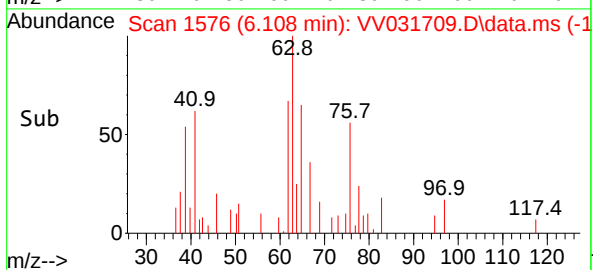
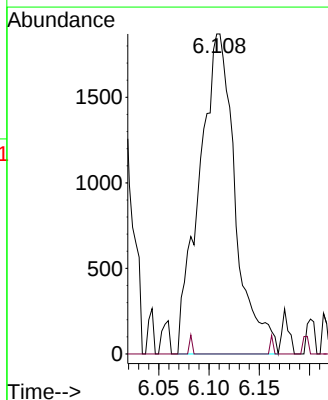
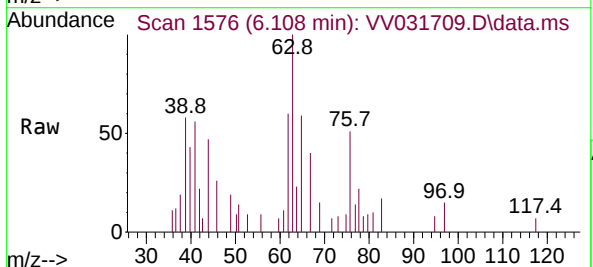
Manual Integrations  
APPROVED

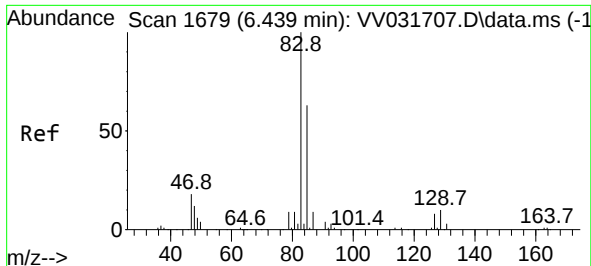
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#37  
1,2-Dichloropropane  
Concen: 0.358 ug/L  
RT: 6.108 min Scan# 1576  
Delta R.T. 0.009 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Tgt Ion: 63 Resp: 4644  
Ion Ratio Lower Upper  
63 100  
112 0.5 1.4 2.2





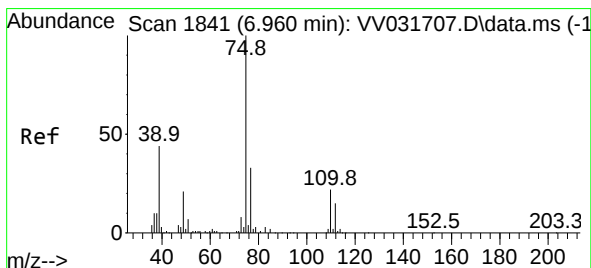
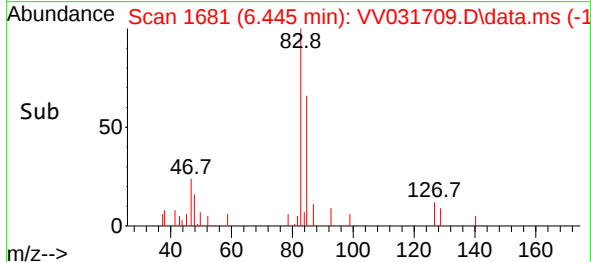
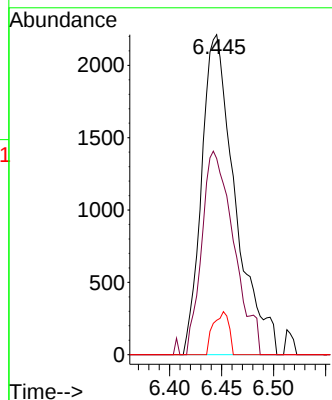
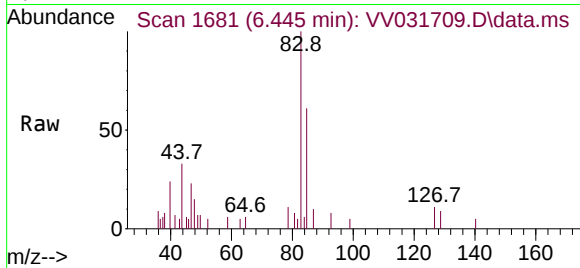
#38  
Bromodichloromethane  
Concen: 0.288 ug/L  
RT: 6.445 min Scan# 1679  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06

Tgt Ion: 83 Resp: 4960  
Ion Ratio Lower Upper  
83 100  
85 61.3 45.5 84.5  
127 10.8 6.9 10.3

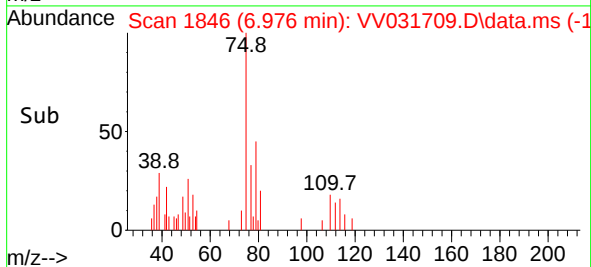
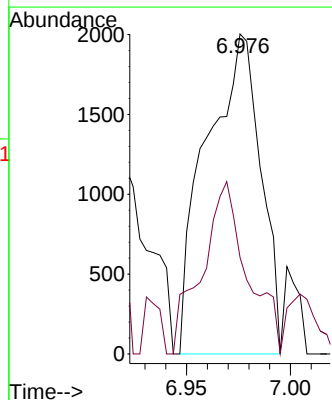
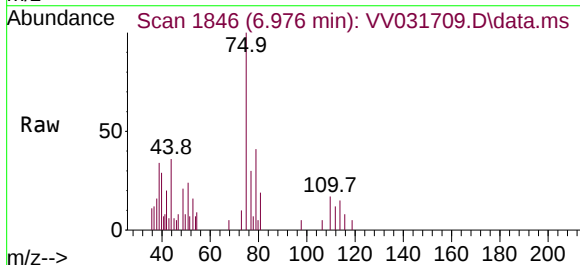
Manual Integrations  
APPROVED

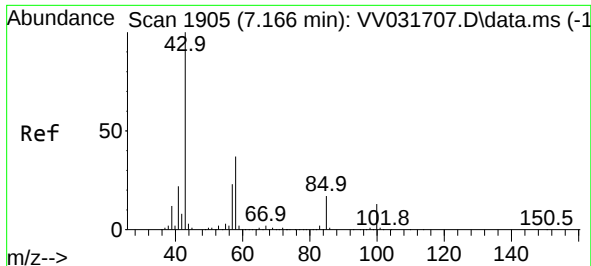
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#39  
cis-1,3-Dichloropropene  
Concen: 0.226 ug/L  
RT: 6.976 min Scan# 1846  
Delta R.T. 0.016 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Tgt Ion: 75 Resp: 3649  
Ion Ratio Lower Upper  
75 100  
77 30.1 23.0 42.6





#40

4-Methyl-2-pentanone

Concen: 2.001 ug/L

RT: 7.175 min Scan# 1905

Delta R.T. 0.009 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT3-2023-06

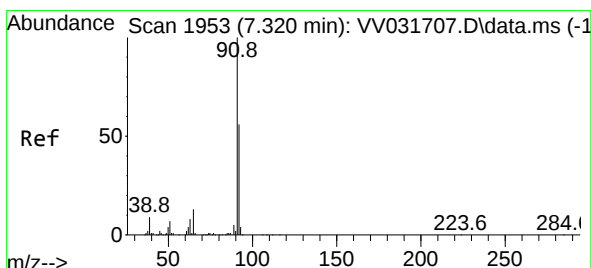
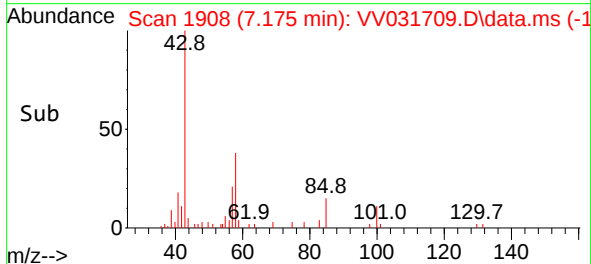
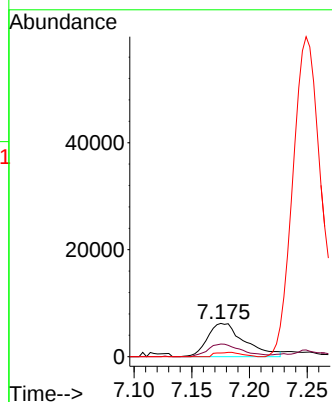
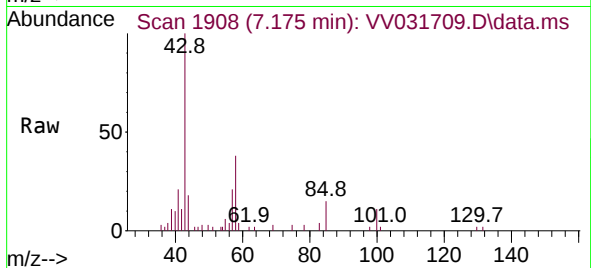
Tgt Ion: 43 Resp: 13874  
 Ion Ratio Lower Upper  
 43 100  
 58 34.7 30.3 45.5  
 100 0.0 9.7 14.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#42

Toluene

Concen: 0.201 ug/L

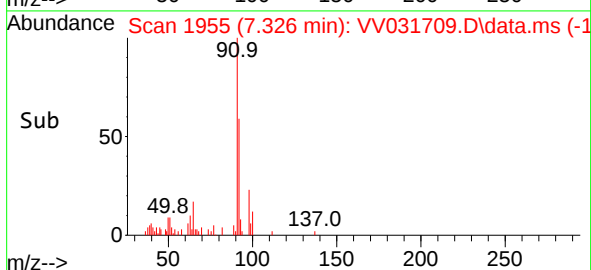
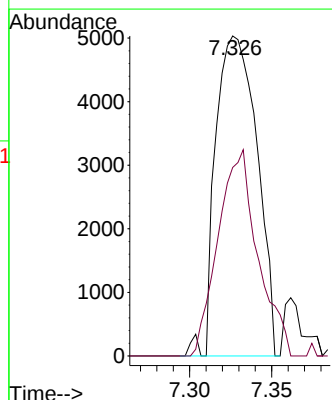
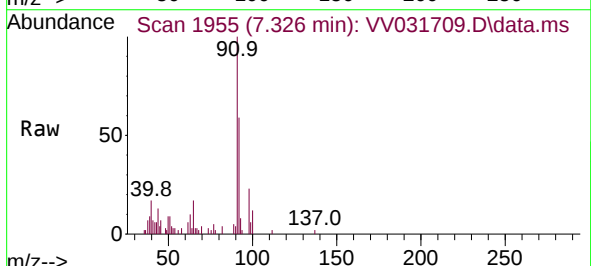
RT: 7.326 min Scan# 1955

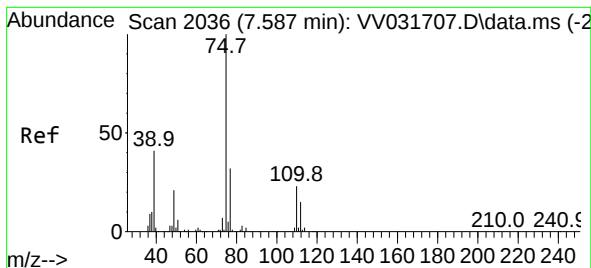
Delta R.T. 0.006 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Tgt Ion: 91 Resp: 8793  
 Ion Ratio Lower Upper  
 91 100  
 92 58.9 38.1 70.7





#44

trans-1,3-Dichloropropene

Concen: 0.242 ug/L m

RT: 7.599 min Scan# 2040

Delta R.T. 0.013 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT3-2023-06

Tgt Ion: 75 Resp: 341

Ion Ratio Lower Upper

75 100

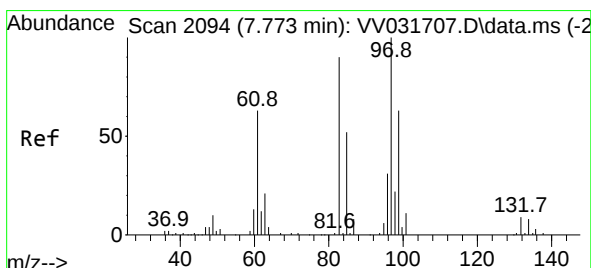
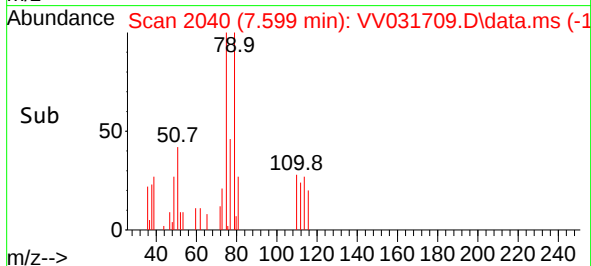
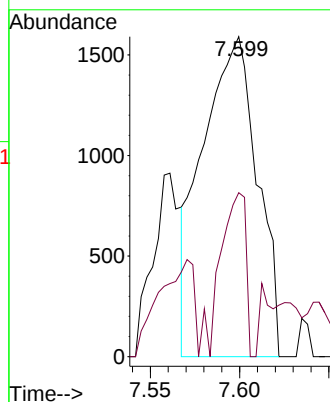
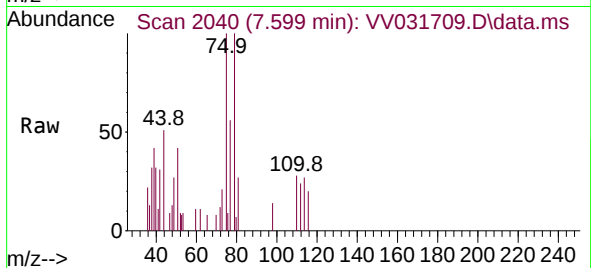
77 56.1 21.7 40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#45

1,1,2-Trichloroethane

Concen: 0.292 ug/L

RT: 7.783 min Scan# 2097

Delta R.T. 0.010 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Tgt Ion: 97 Resp: 2813

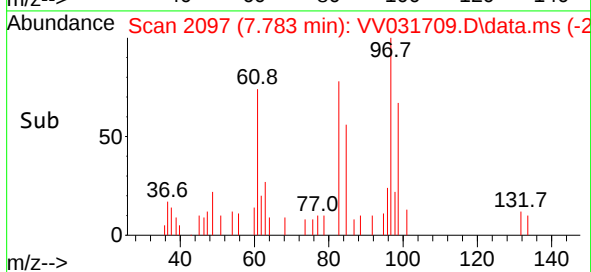
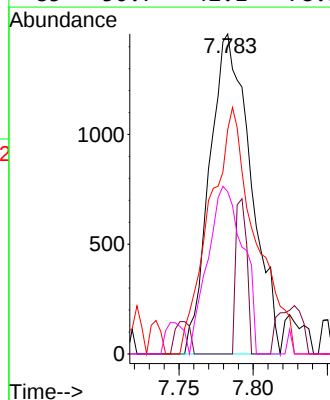
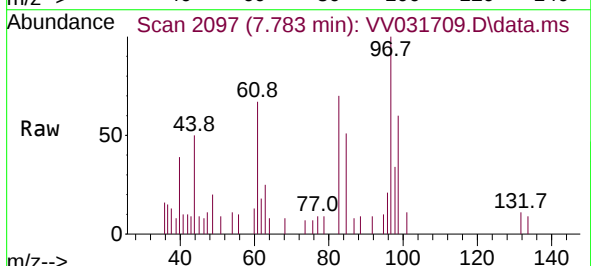
Ion Ratio Lower Upper

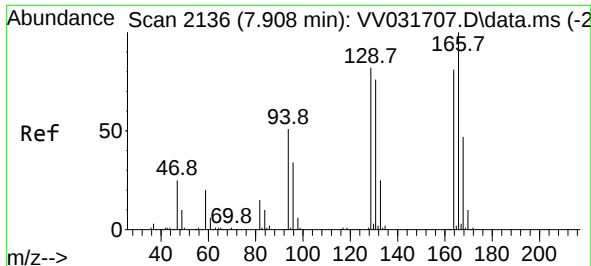
97 100

99 0.0 40.9 76.0

83 70.1 59.7 110.9

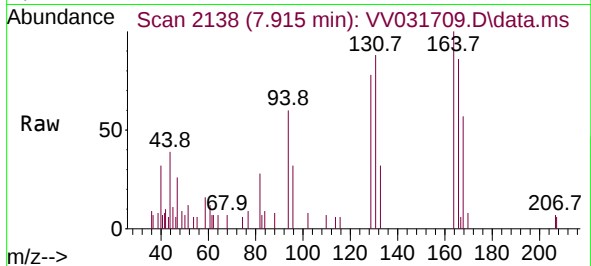
85 50.7 42.1 78.1





#47  
Tetrachloroethene  
Concen: 0.327 ug/L  
RT: 7.915 min Scan# 2136  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

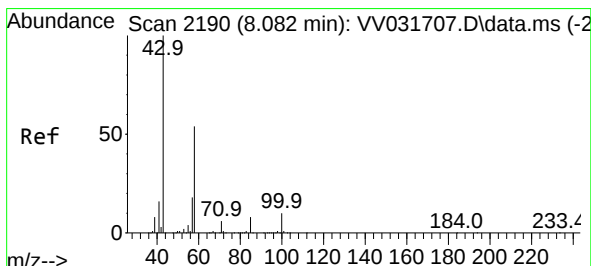
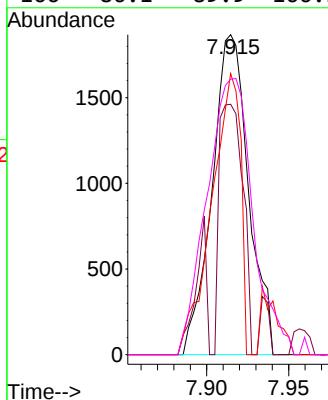
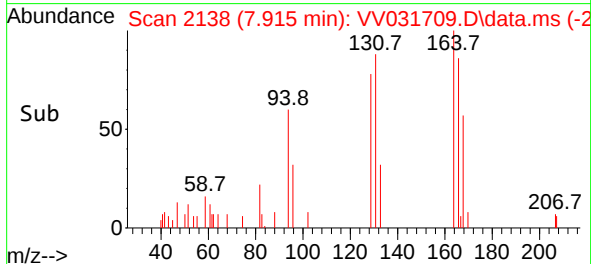
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



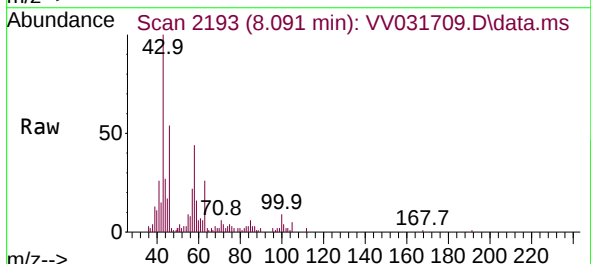
Tgt Ion:164 Resp: 2894  
Ion Ratio Lower Upper  
164 100  
129 78.3 70.5 130.9  
131 87.8 64.0 118.8  
166 86.1 89.9 166.9#

Manual Integrations  
APPROVED

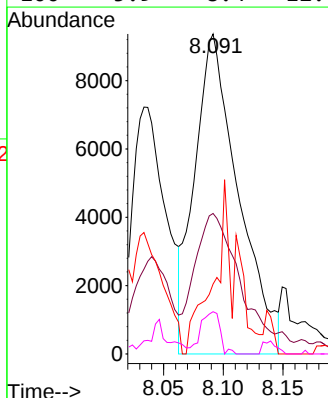
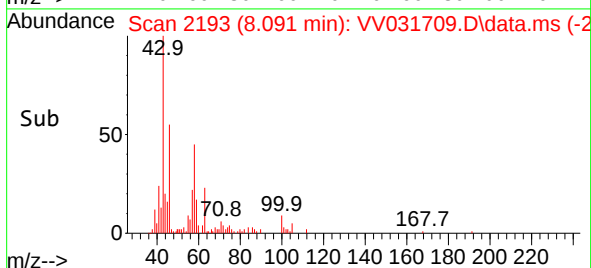
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023

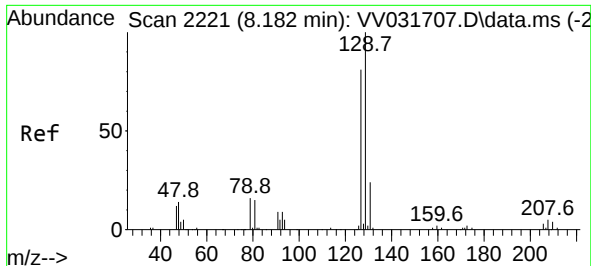


#48  
2-Hexanone  
Concen: 4.699 ug/L m  
RT: 8.091 min Scan# 2193  
Delta R.T. 0.009 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53



Tgt Ion: 43 Resp: 23875  
Ion Ratio Lower Upper  
43 100  
58 42.2 42.6 64.0#  
57 19.4 14.6 21.8  
100 5.9 8.4 12.6#





#49

Dibromochloromethane

Concen: 0.214 ug/L

RT: 8.185 min Scan# 2221

Delta R.T. 0.003 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT3-2023-06

Tgt Ion:129 Resp: 221

Ion Ratio Lower Upper

129 100

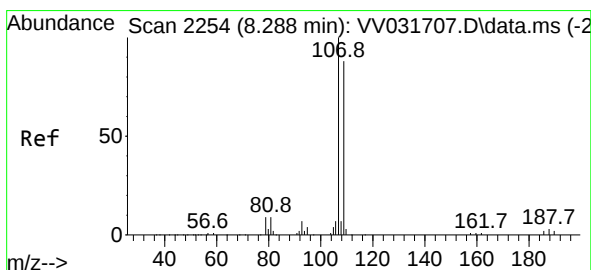
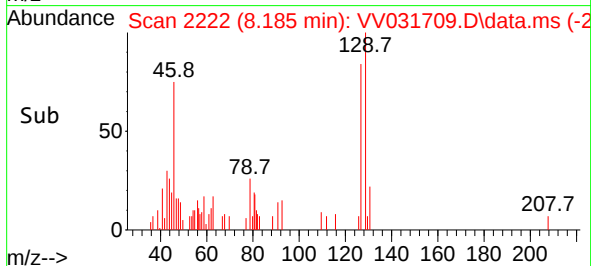
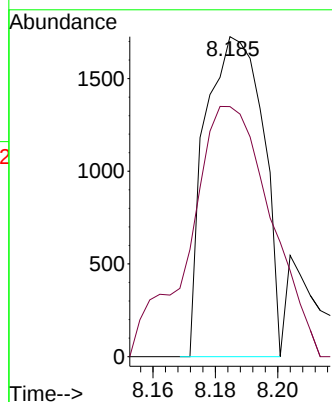
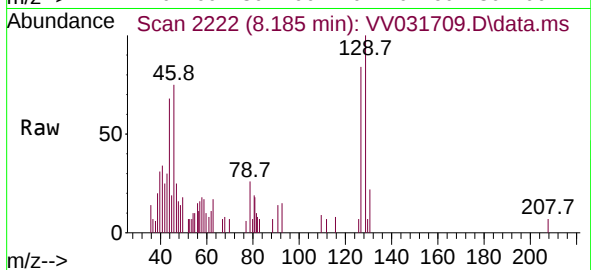
127 78.2 51.7 96.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#50

1,2-Dibromoethane

Concen: 0.276 ug/L

RT: 8.297 min Scan# 2257

Delta R.T. 0.009 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

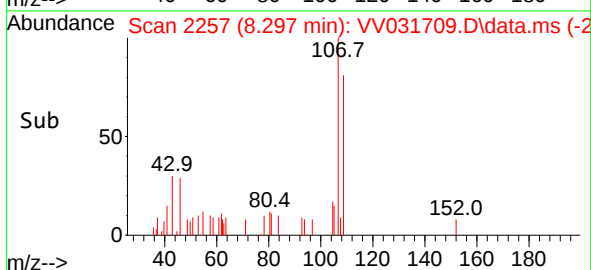
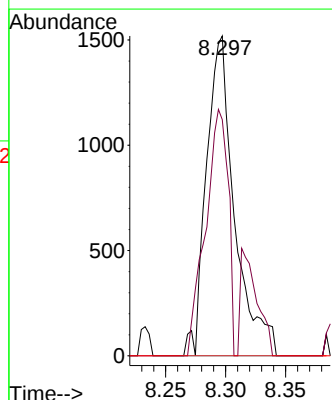
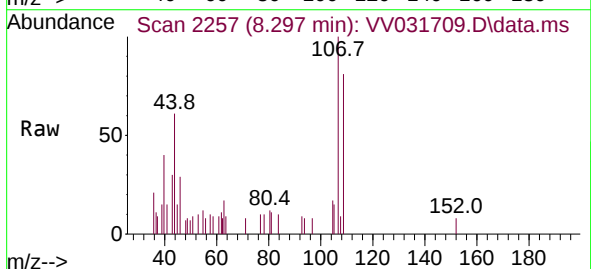
Tgt Ion:107 Resp: 2483

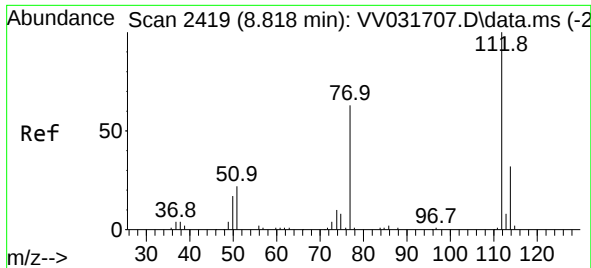
Ion Ratio Lower Upper

107 100

109 73.9 67.6 125.6

188 0.0 3.0 4.6#





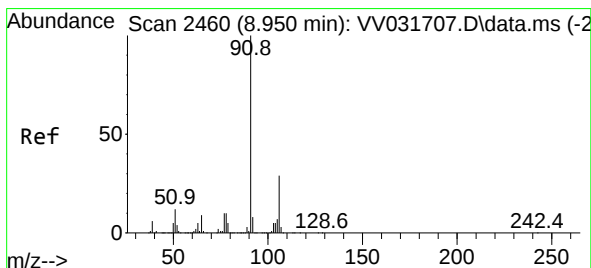
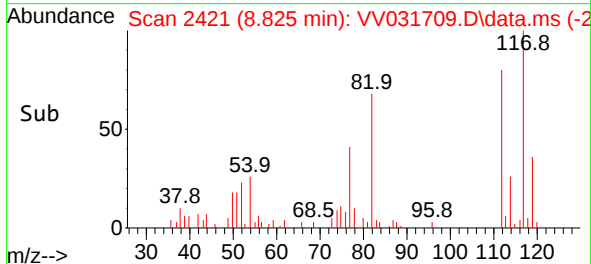
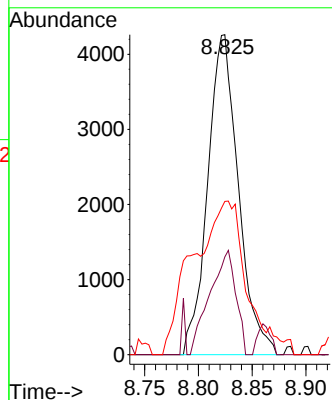
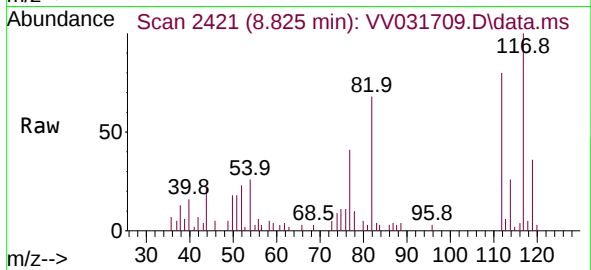
#51  
Chlorobenzene  
Concen: 0.294 ug/L  
RT: 8.825 min Scan# 2419  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06

Tgt Ion:112 Resp: 8460  
Ion Ratio Lower Upper  
112 100  
114 30.5 21.6 40.2  
77 47.9 54.2 81.4

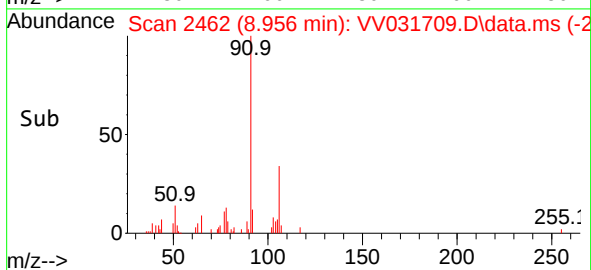
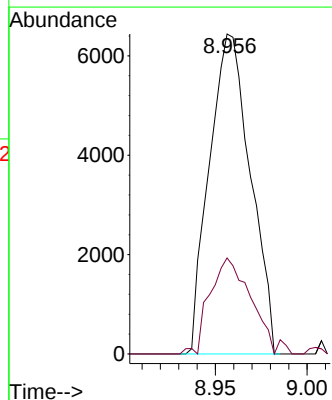
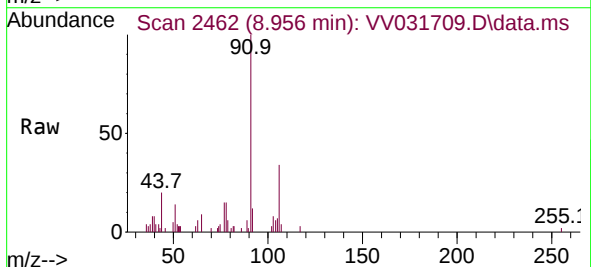
Manual Integrations  
APPROVED

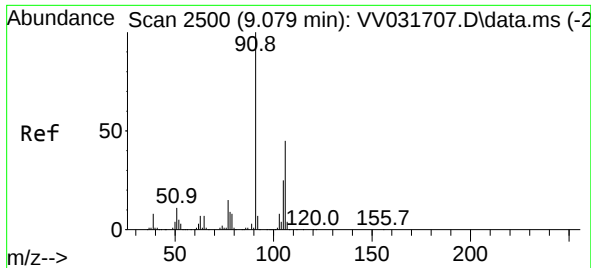
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#52  
Ethylbenzene  
Concen: 0.232 ug/L  
RT: 8.956 min Scan# 2462  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Tgt Ion: 91 Resp: 10034  
Ion Ratio Lower Upper  
91 100  
106 30.0 21.2 39.4





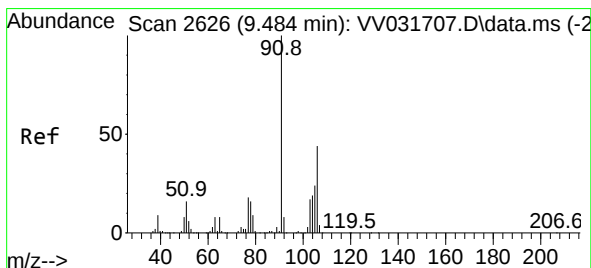
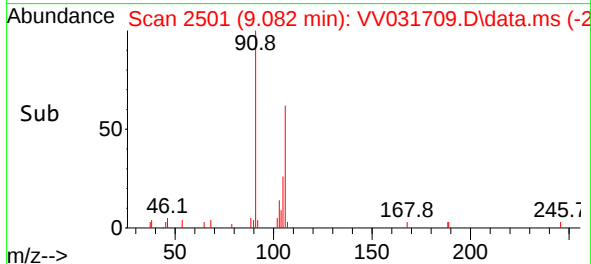
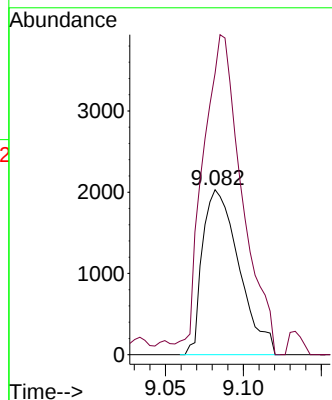
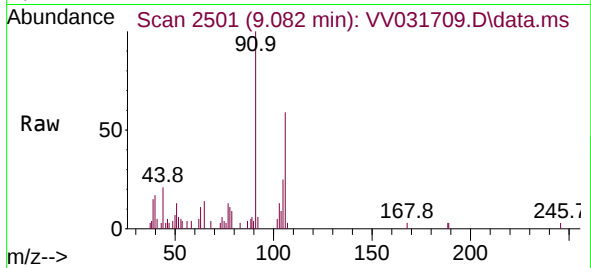
#53  
m,p-Xylene  
Concen: 0.207 ug/L  
RT: 9.082 min Scan# 2501  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Instrument : MSVOA\_V  
ClientSampleId : MDL-WATER-QT3-2023-06

Tgt Ion:106 Resp: 3304  
Ion Ratio Lower Upper  
106 100  
91 170.6 149.9 278.3

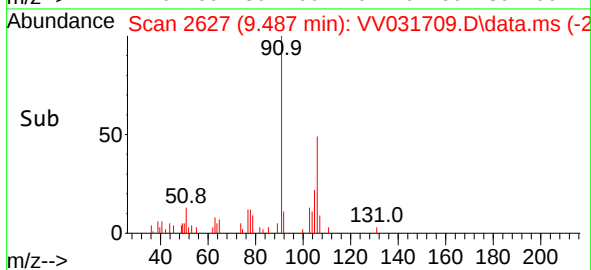
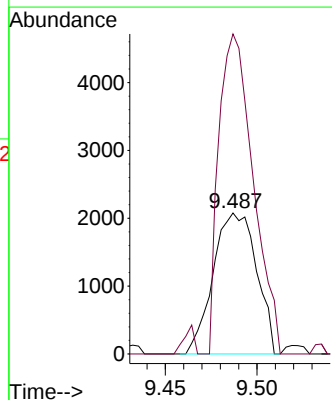
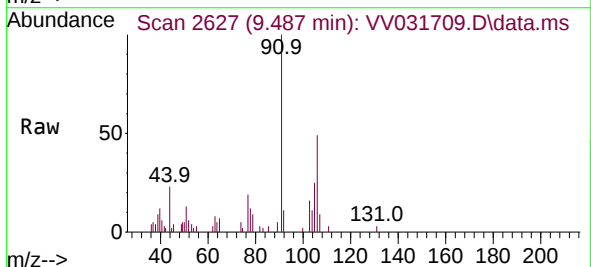
Manual Integrations  
APPROVED

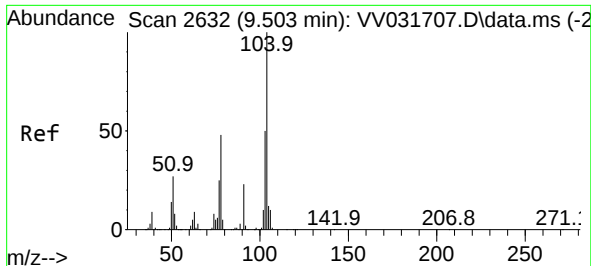
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#54  
o-Xylene  
Concen: 0.230 ug/L  
RT: 9.487 min Scan# 2627  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Tgt Ion:106 Resp: 3416  
Ion Ratio Lower Upper  
106 100  
91 226.9 166.7 309.5





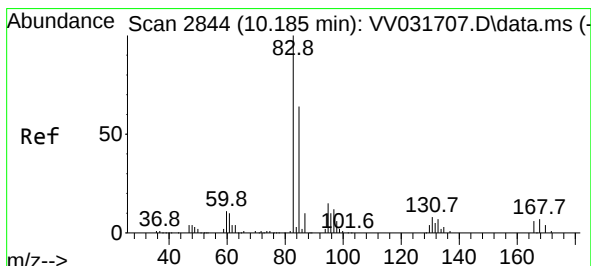
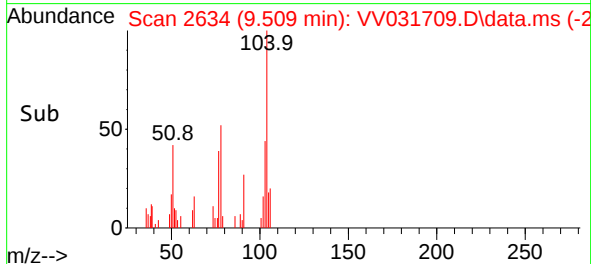
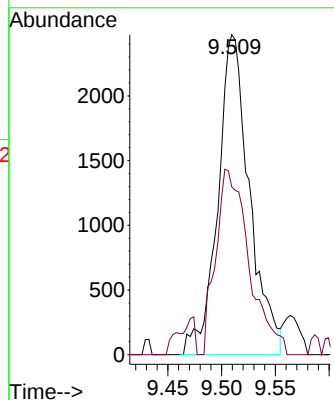
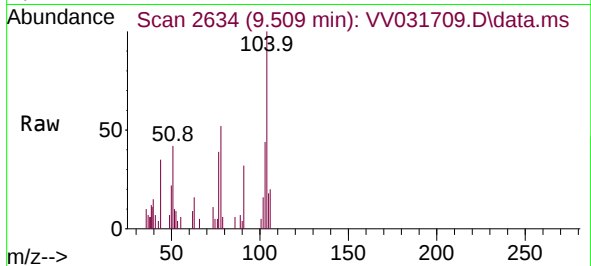
#55  
Styrene  
Concen: 0.181 ug/L  
RT: 9.509 min Scan# 2104  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06

Tgt Ion:104 Resp: 5060  
Ion Ratio Lower Upper  
104 100  
78 52.4 35.3 65.5

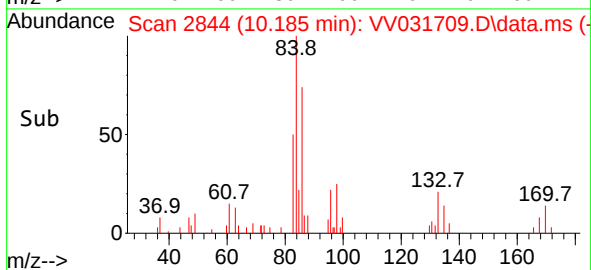
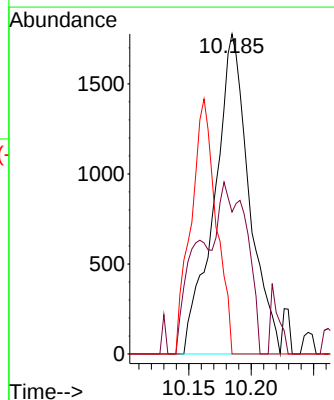
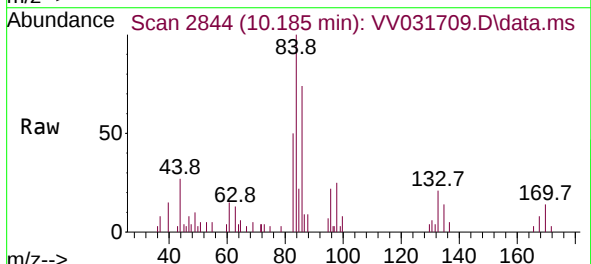
Manual Integrations  
APPROVED

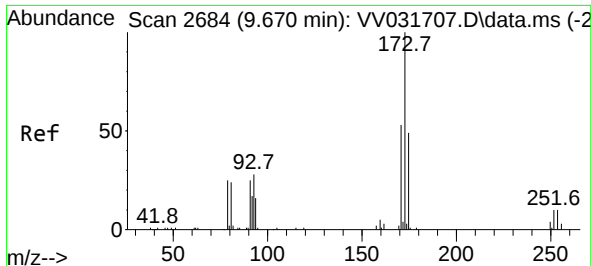
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#57  
1,1,2,2-Tetrachloroethane  
Concen: 0.338 ug/L  
RT: 10.185 min Scan# 2844  
Delta R.T. -0.000 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

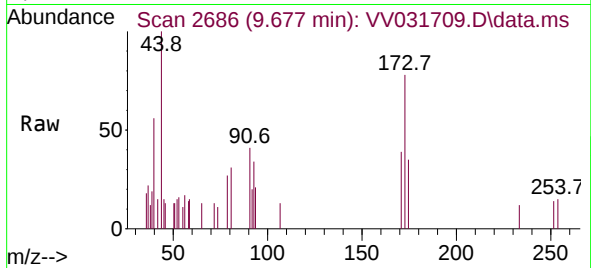
Tgt Ion: 83 Resp: 3443  
Ion Ratio Lower Upper  
83 100  
85 44.3 48.6 90.2#  
131 0.0 7.0 10.6#





#59  
Bromoform  
Concen: 0.238 ug/L  
RT: 9.677 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

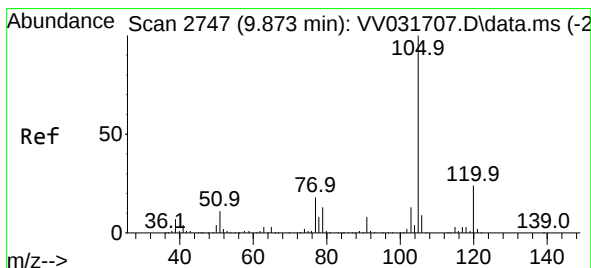
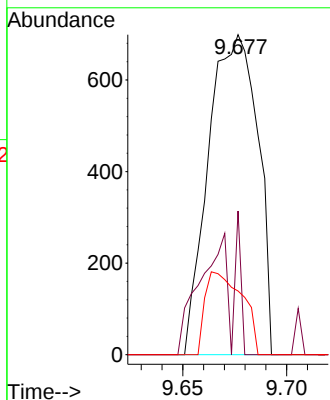
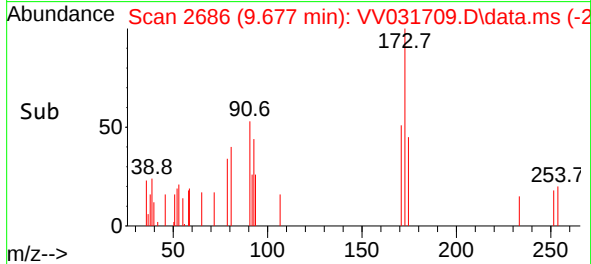
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



Tgt Ion:173 Resp: 1149  
Ion Ratio Lower Upper  
173 100  
175 20.9 40.2 60.4  
254 19.5 6.4 9.6

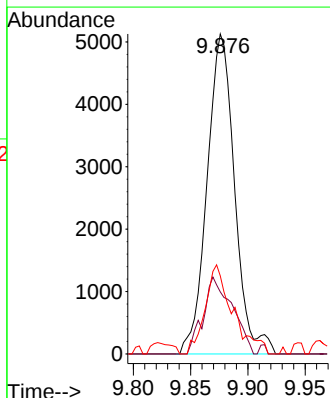
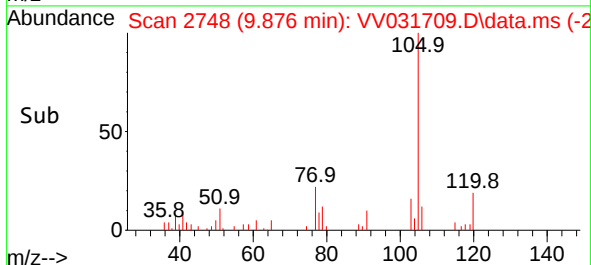
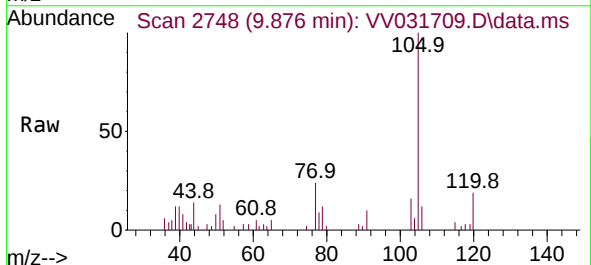
Manual Integrations  
APPROVED

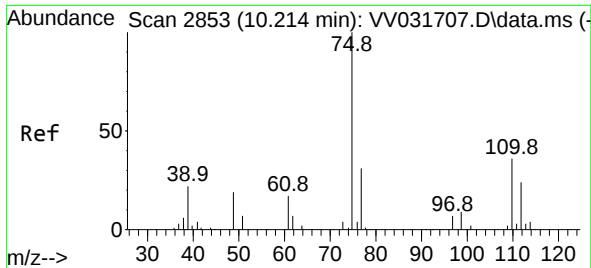
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023



#60  
Isopropylbenzene  
Concen: 0.268 ug/L m  
RT: 9.876 min Scan# 2748  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

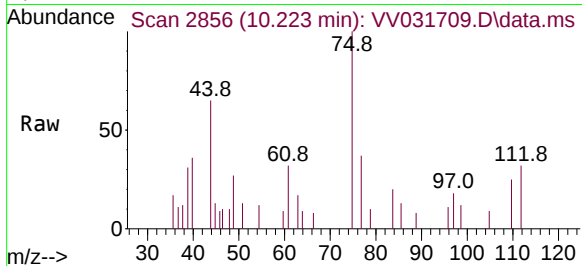
Tgt Ion:105 Resp: 8579  
Ion Ratio Lower Upper  
105 100  
120 21.8 20.0 30.0  
77 14.3 14.2 21.4





#61  
1,2,3-Trichloropropane  
Concen: 0.360 ug/L  
RT: 10.223 min Scan# 2856  
Delta R.T. 0.010 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

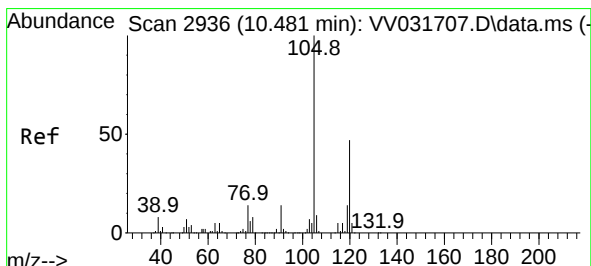
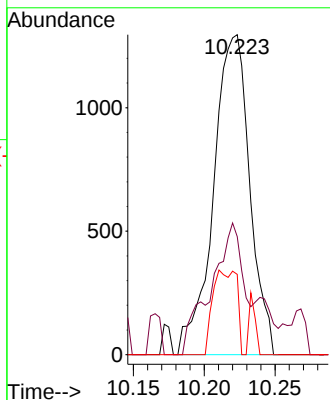
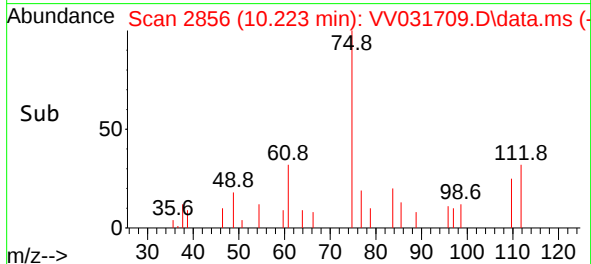
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



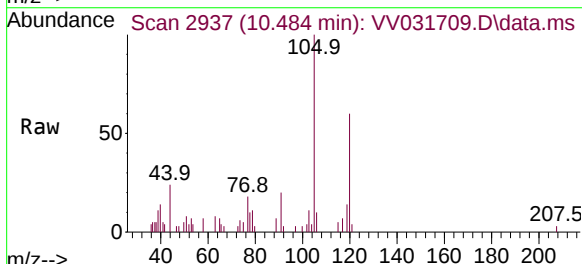
Tgt Ion: 75 Resp: 231  
Ion Ratio Lower Upper  
75 100  
77 37.0 25.9 38.9  
110 3.3 28.6 42.8

Manual Integrations  
APPROVED

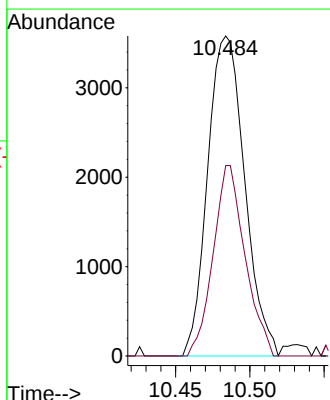
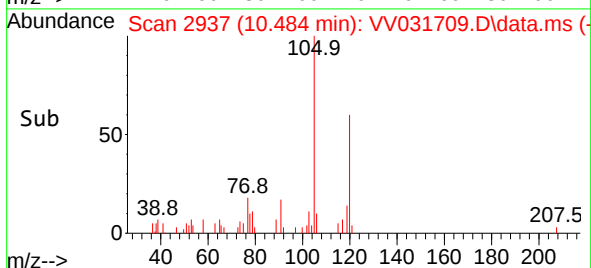
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023

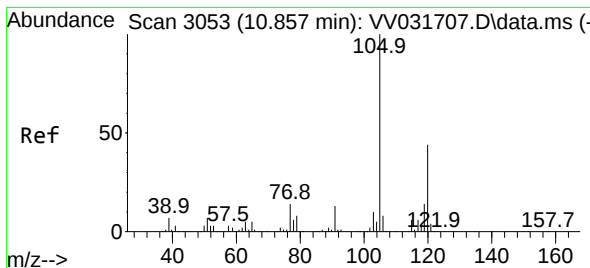


#62  
1,3,5-Trimethylbenzene  
Concen: 0.240 ug/L  
RT: 10.484 min Scan# 2937  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53



Tgt Ion:105 Resp: 6207  
Ion Ratio Lower Upper  
105 100  
120 51.3 36.2 54.4





#63

1,2,4-Trimethylbenzene

Concen: 0.254 ug/L

RT: 10.857 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT3-2023-06

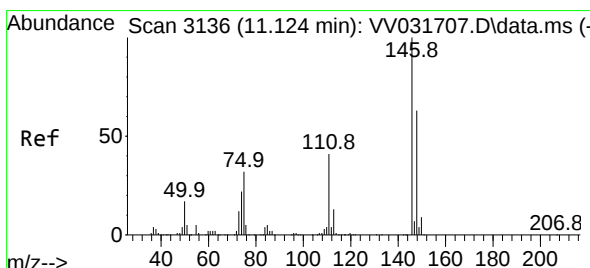
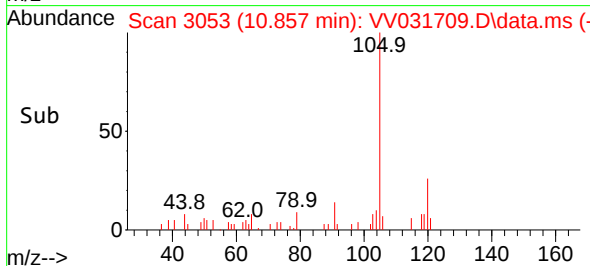
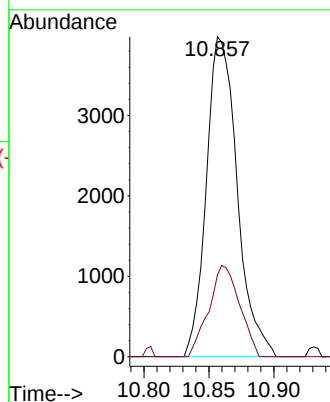
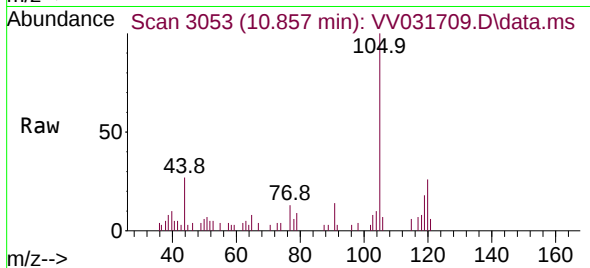
Tgt Ion:105 Resp: 656  
 Ion Ratio Lower Upper  
 105 100  
 120 28.5 33.4 50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#64

1,3-Dichlorobenzene

Concen: 0.279 ug/L

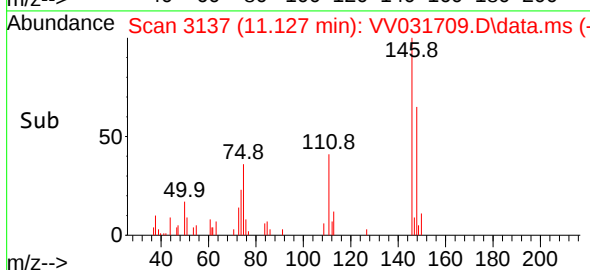
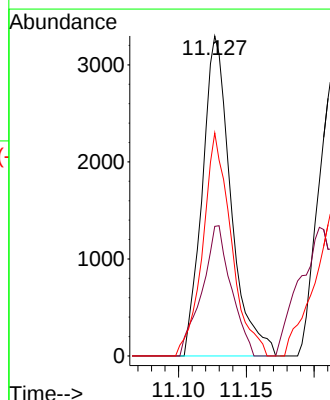
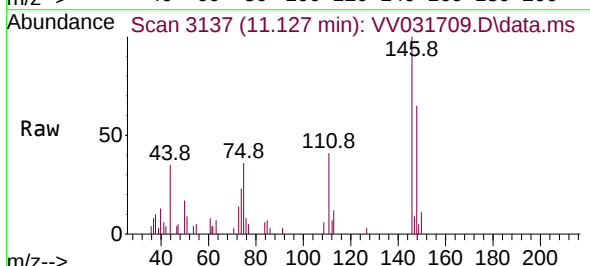
RT: 11.127 min Scan# 3137

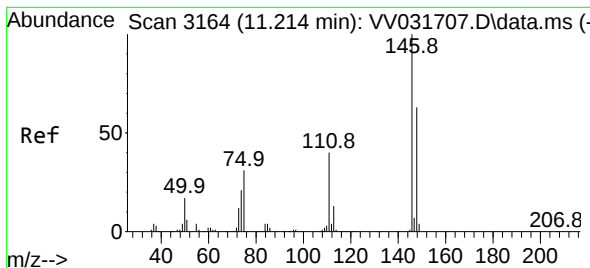
Delta R.T. 0.003 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Tgt Ion:146 Resp: 4821  
 Ion Ratio Lower Upper  
 146 100  
 111 40.5 28.8 53.4  
 148 69.7 43.8 81.4





#65

1,4-Dichlorobenzene

Concen: 0.308 ug/L

RT: 11.217 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT3-2023-06

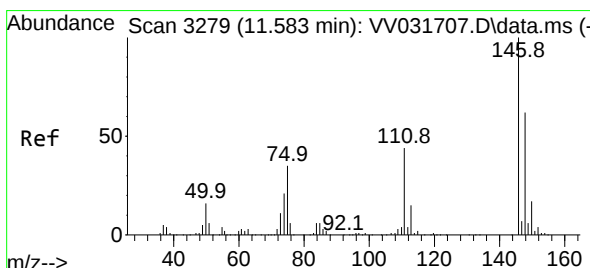
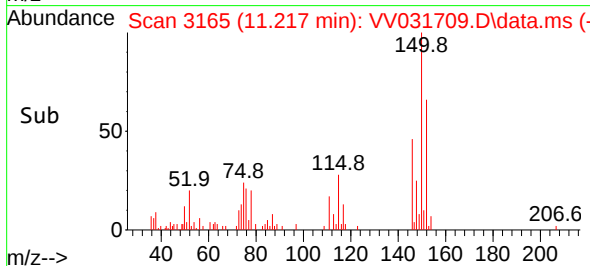
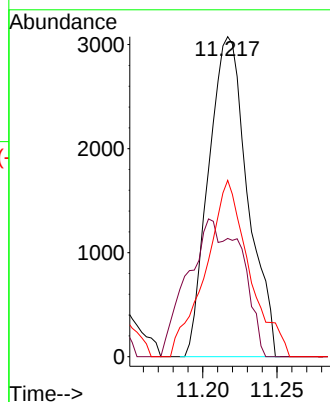
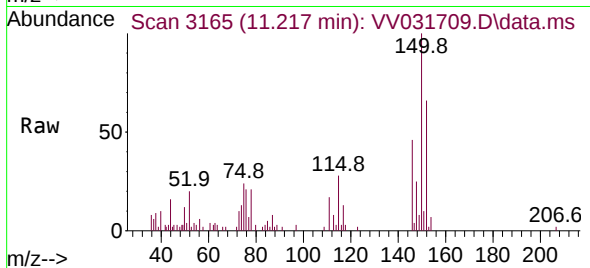
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 5620 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 37.0  | 28.2  | 52.4 |
| 148       | 55.1  | 43.6  | 81.0 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#67

1,2-Dichlorobenzene

Concen: 0.332 ug/L

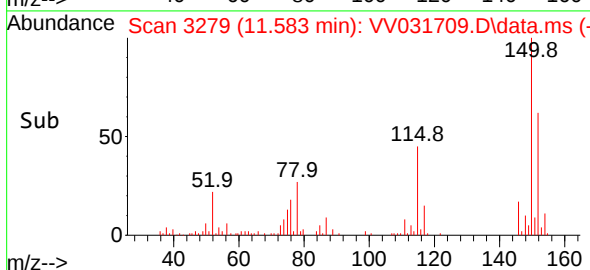
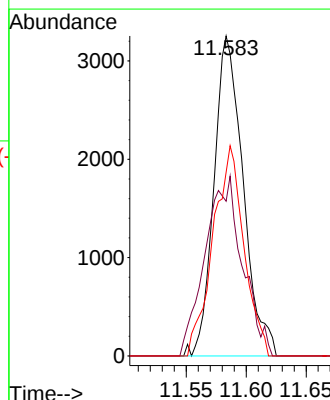
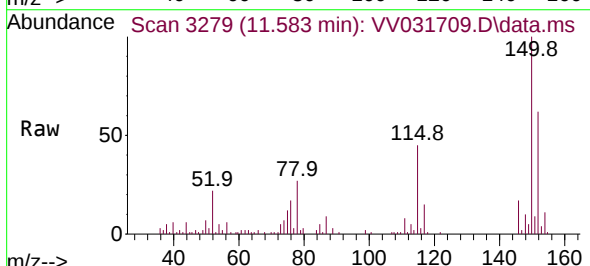
RT: 11.583 min Scan# 3279

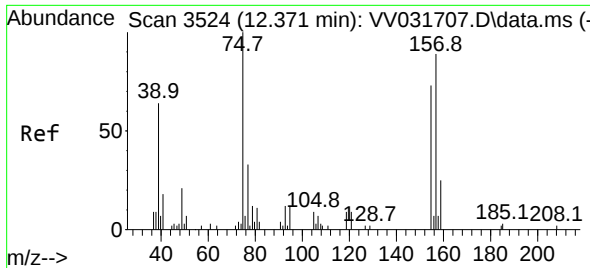
Delta R.T. -0.000 min

Lab File: VV031709.D

Acq: 17 Jul 2023 10:53

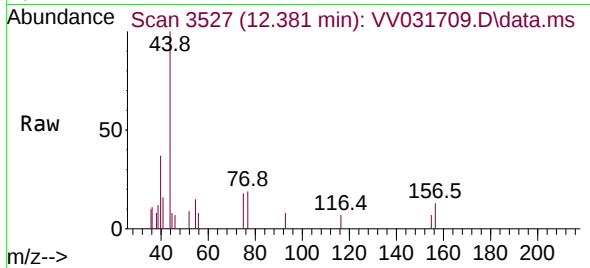
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 5492  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 55.5  | 34.2  | 51.4# |
| 148       | 57.4  | 48.1  | 72.1  |





#68  
1,2-Dibromo-3-chloropropane  
Concen: 0.300 ug/L  
RT: 12.381 min Scan# 3527  
Delta R.T. 0.009 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

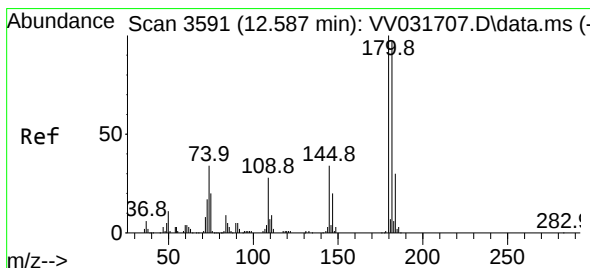
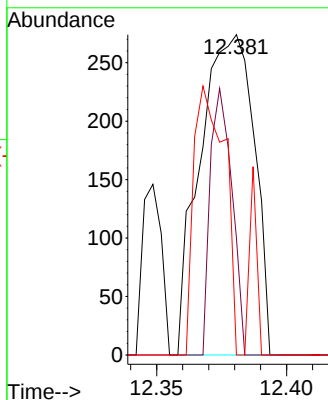
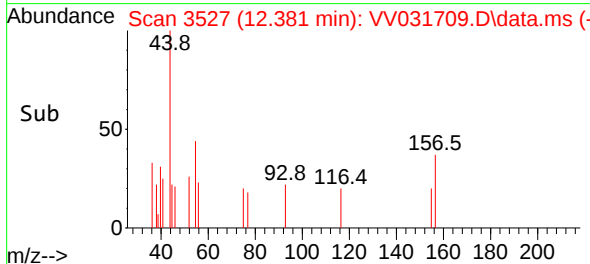
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



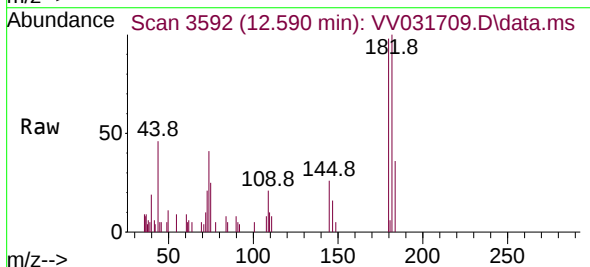
Tgt Ion: 75 Resp: 390  
Ion Ratio Lower Upper  
75 100  
155 36.5 61.4 92.0  
157 0.0 82.8 124.2

Manual Integrations  
APPROVED

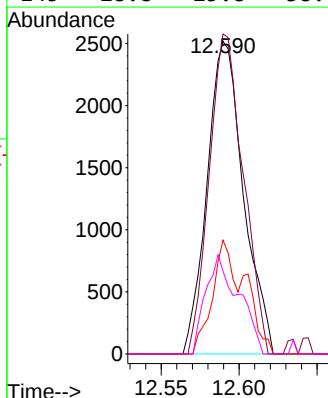
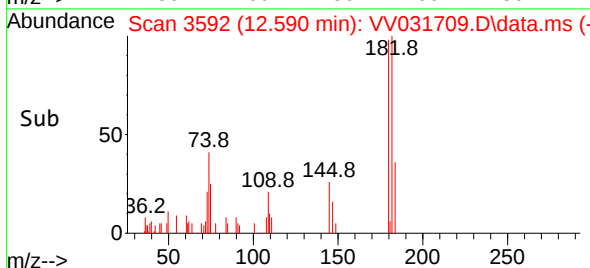
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023

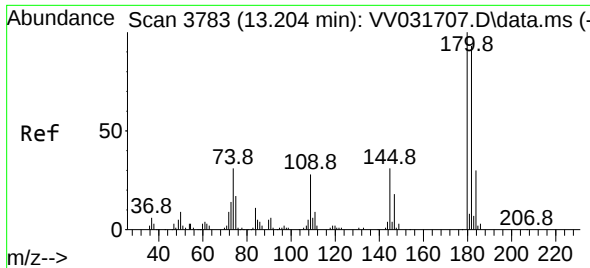


#69  
1,3,5-Trichlorobenzene  
Concen: 0.323 ug/L  
RT: 12.590 min Scan# 3592  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53



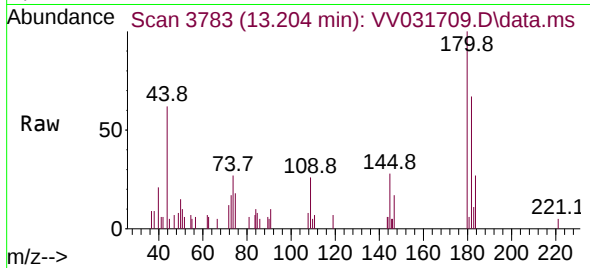
Tgt Ion:180 Resp: 4077  
Ion Ratio Lower Upper  
180 100  
182 95.9 78.3 117.5  
184 22.2 24.5 36.7  
145 28.8 25.8 38.6





#70  
1,2,4-trichlorobenzene  
Concen: 0.309 ug/L  
RT: 13.204 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

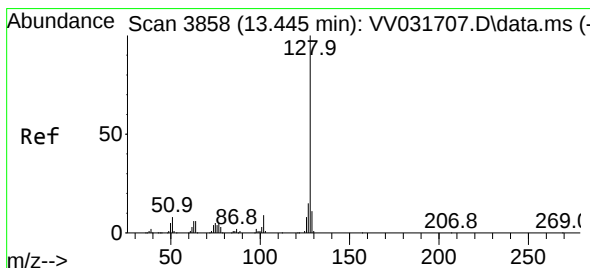
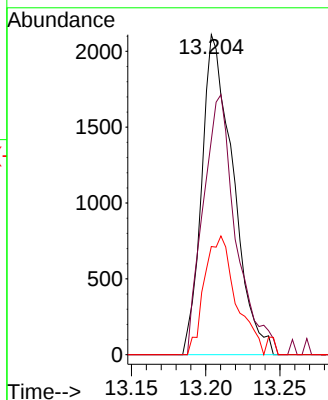
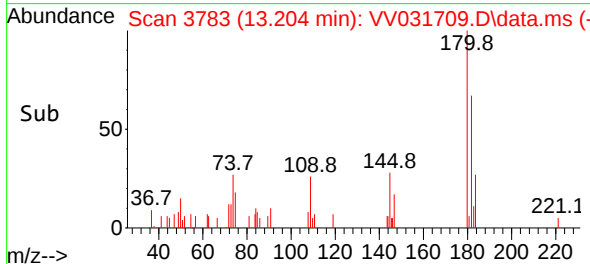
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT3-2023-06



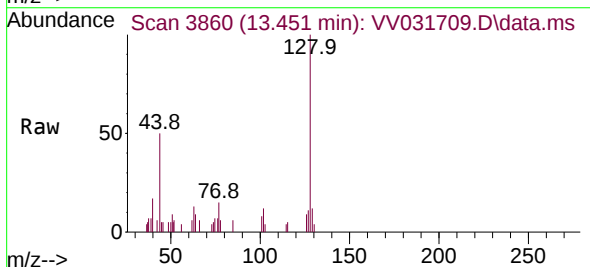
Tgt Ion:180 Resp: 3090  
Ion Ratio Lower Upper  
180 100  
182 84.4 76.0 114.0  
145 37.2 26.2 39.4

Manual Integrations  
APPROVED

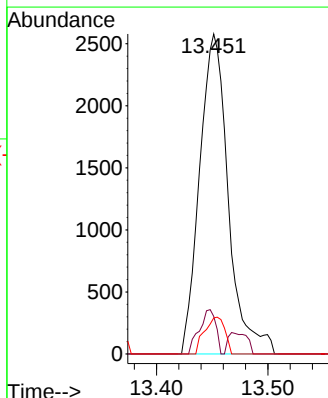
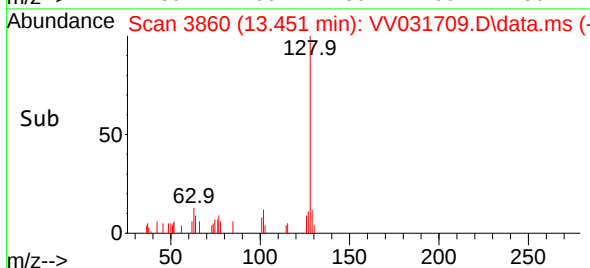
Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023

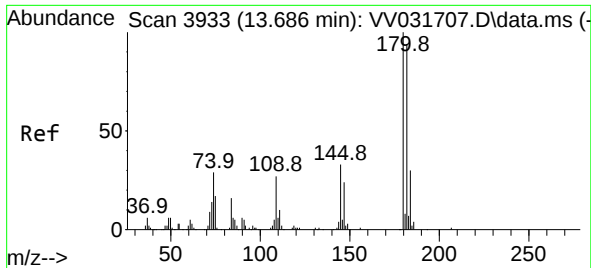


#71  
Naphthalene  
Concen: 0.286 ug/L  
RT: 13.451 min Scan# 3860  
Delta R.T. 0.006 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53



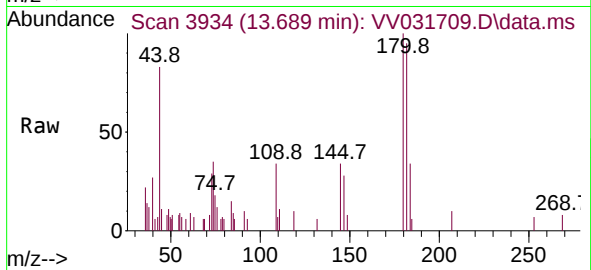
Tgt Ion:128 Resp: 4621  
Ion Ratio Lower Upper  
128 100  
129 8.0 9.1 13.7#  
127 8.1 11.6 17.4#





#72  
1,2,3-Trichlorobenzene  
Concen: 0.308 ug/L  
RT: 13.689 min Scan# 3934  
Delta R.T. 0.003 min  
Lab File: VV031709.D  
Acq: 17 Jul 2023 10:53

Instrument : MSVOA\_V  
ClientSampleId : MDL-WATER-QT3-2023-06



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 284   |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 93.4  | 74.6  | 111.8 |
| 145       | 42.2  | 27.4  | 41.0  |

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/18/2023  
Supervised By :Mahesh Dadoda 07/18/2023

