

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041023\  
 Data File : VX034994.D  
 Acq On : 10 Apr 2023 14:47  
 Operator : JC/MD  
 Sample : 02215-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-WATER-QT2-2023-03

Quant Time: Apr 11 05:50:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML041023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 11 05:31:31 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/11/2023  
 Supervised By : Semsettin Yesilyurt 04/11/2023

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 6.757          | 114  | 541085     | 50.000  | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.049         | 117  | 471090     | 50.000  | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 228072     | 50.000  | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 1.368          | 65   | 159014     | 44.122  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 88.240% |        |          |
| 7) Chloroethane-d5            | 1.672          | 69   | 121546     | 46.046  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 92.100% |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.307          | 63   | 249958     | 34.215  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 68.440% |        |          |
| 21) 2-Butanone-d5             | 4.459          | 46   | 226955     | 94.750  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 94.750% |        |          |
| 24) Chloroform-d              | 5.050          | 84   | 298859     | 43.515  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 87.040% |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.952          | 65   | 209085     | 44.349  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 88.700% |        |          |
| 32) Benzene-d6                | 5.971          | 84   | 605641     | 46.054  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 92.100% |        |          |
| 36) 1,2-Dichloropropane-d6    | 7.306          | 67   | 185113     | 45.758  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 91.520% |        |          |
| 41) Toluene-d8                | 8.647          | 98   | 546893     | 45.403  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 90.800% |        |          |
| 43) trans-1,3-Dichloroprop... | 8.946          | 79   | 78624      | 42.321  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 84.640% |        |          |
| 47) 2-Hexanone-d5             | 9.385          | 63   | 154042     | 95.268  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 95.270% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 11.189         | 84   | 227051     | 45.162  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 90.320% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.317         | 152  | 193934     | 46.340  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 92.680% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.166          | 85   | 12875      | 2.740   | ug/L   | 94       |
| 3) Chloromethane              | 1.295          | 50   | 12433      | 2.815   | ug/L   | 96       |
| 5) Vinyl chloride             | 1.374          | 62   | 12461      | 2.784   | ug/L   | 83       |
| 6) Bromomethane               | 1.618          | 94   | 7146       | 2.825   | ug/L   | 91       |
| 8) Chloroethane               | 1.691          | 64   | 7146       | 2.837   | ug/L   | 92       |
| 9) Trichlorofluoromethane     | 1.886          | 101  | 17196      | 2.761   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.331          | 101  | 12781      | 3.307   | ug/L   | 90       |
| 12) 1,1-Dichloroethene        | 2.319          | 96   | 11512      | 3.347   | ug/L # | 1        |
| 13) Acetone                   | 2.392          | 43   | 14509      | 6.126   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.508          | 76   | 23002      | 2.487   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.709          | 43   | 10998      | 2.706   | ug/L   | 96       |
| 16) Methylene chloride        | 2.788          | 84   | 11390      | 3.018   | ug/L   | 90       |
| 17) trans-1,2-Dichloroethene  | 3.093          | 96   | 9308       | 2.631   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.111          | 73   | 33705      | 2.726   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.611          | 63   | 18621      | 2.643   | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.489          | 96   | 10824      | 2.675   | ug/L   | 92       |
| 22) 2-Butanone                | 4.574          | 43   | 15534      | 5.135   | ug/L   | 94       |
| 23) Bromochloromethane        | 4.891          | 128  | 5584       | 2.789   | ug/L   | 91       |
| 25) Chloroform                | 5.087          | 83   | 24349      | 3.370   | ug/L   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041023\  
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 Acq On : 10 Apr 2023 14:47  
 Operator : JC/MD  
 Sample : 02215-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-WATER-QT2-2023-03

Quant Time: Apr 11 05:50:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML041023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 11 05:31:31 2023  
 Response via : Initial Calibration

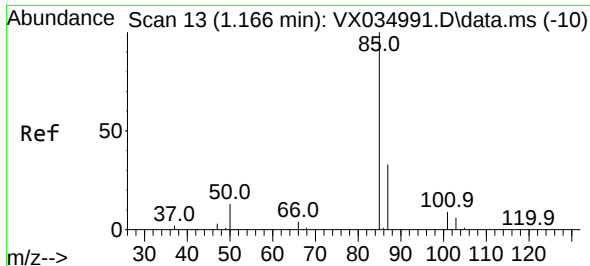
Manual Integrations  
 APPROVED

Reviewed By :John Carlone 04/11/2023  
 Supervised By :Semsettin Yesilyurt 04/11/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 6.086  | 62   | 17482m   | 2.857 | ug/L   |          |
| 29) Cyclohexane               | 5.464  | 56   | 17272    | 2.666 | ug/L # | 94       |
| 30) 1,1,1-Trichloroethane     | 5.379  | 97   | 16033    | 2.574 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 5.666  | 117  | 13326    | 2.482 | ug/L   | 100      |
| 33) Benzene                   | 6.038  | 78   | 40240    | 2.678 | ug/L   | 100      |
| 34) Trichloroethene           | 7.123  | 95   | 11470    | 2.832 | ug/L   | 87       |
| 35) Methylcyclohexane         | 7.379  | 83   | 16551    | 2.834 | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 7.428  | 63   | 10416    | 2.616 | ug/L # | 97       |
| 38) Bromodichloromethane      | 7.818  | 83   | 12143    | 2.411 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 8.366  | 75   | 15009    | 2.467 | ug/L   | 94       |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 27691    | 5.235 | ug/L   | 99       |
| 42) Toluene                   | 8.714  | 91   | 43047    | 2.767 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene | 8.976  | 75   | 14496    | 2.588 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 10274    | 2.768 | ug/L   | 95       |
| 46) Tetrachloroethene         | 9.269  | 164  | 8254     | 2.735 | ug/L   | 93       |
| 48) 2-Hexanone                | 9.433  | 43   | 23618m   | 5.696 | ug/L   |          |
| 49) Dibromochloromethane      | 9.519  | 129  | 8859     | 2.426 | ug/L   | 91       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 9924     | 2.547 | ug/L   | 84       |
| 51) Chlorobenzene             | 10.080 | 112  | 27338    | 2.726 | ug/L   | 96       |
| 52) Ethylbenzene              | 10.195 | 91   | 48180    | 2.729 | ug/L   | 100      |
| 53) m,p-Xylene                | 10.299 | 106  | 17634    | 2.650 | ug/L   | 98       |
| 54) o-Xylene                  | 10.640 | 106  | 17045    | 2.600 | ug/L   | 87       |
| 55) Styrene                   | 10.653 | 104  | 28132    | 2.560 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 15866    | 2.878 | ug/L # | 97       |
| 59) Bromoform                 | 10.799 | 173  | 5054     | 2.078 | ug/L   | 95       |
| 60) Isopropylbenzene          | 10.964 | 105  | 45504    | 2.732 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 12187    | 2.787 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 36632    | 2.653 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 35458    | 2.600 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 20159    | 2.717 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 12.043 | 146  | 20857    | 2.780 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 20956    | 2.867 | ug/L   | 95       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 2459     | 2.197 | ug/L # | 80       |
| 69) 1,3,5-Trichlorobenzene    | 13.109 | 180  | 12541    | 2.702 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 11007    | 2.550 | ug/L   | 94       |
| 71) Naphthalene               | 13.774 | 128  | 36067    | 2.445 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 11035    | 2.546 | ug/L   | 98       |

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





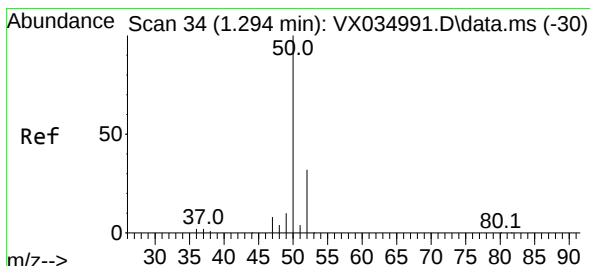
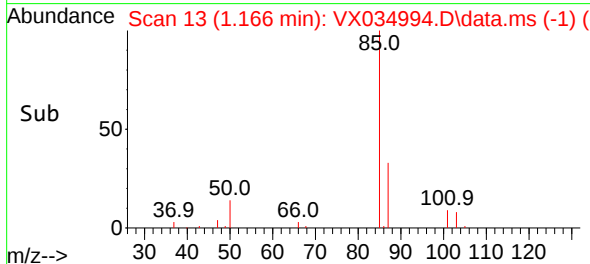
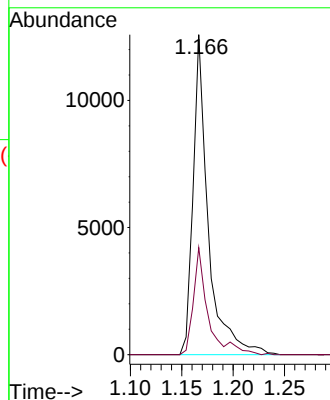
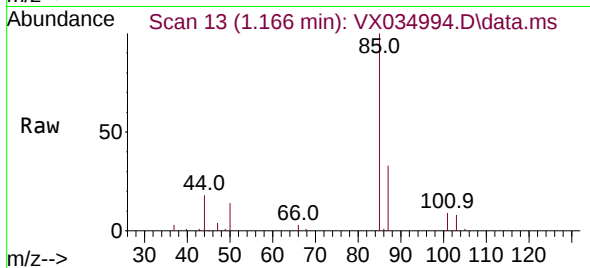
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Dichlorodifluoromethane  
Concen: 2.740 ug/L  
RT: 1.166 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Instrument : MSVOA\_X  
ClientSampleId :  
MDL-WATER-QT2-2023-03

Tgt Ion: 85 Resp: 1287  
Ion Ratio Lower Upper  
85 100  
87 28.9 25.7 38.5

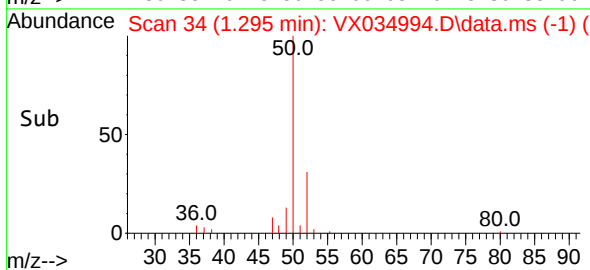
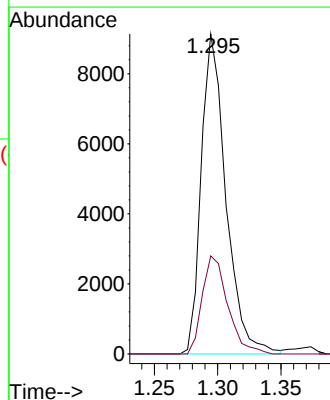
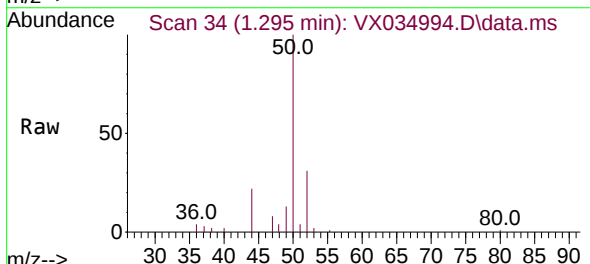
Manual Integrations  
APPROVED

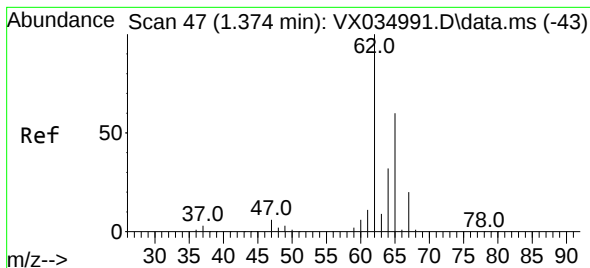
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#3  
Chloromethane  
Concen: 2.815 ug/L  
RT: 1.295 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Tgt Ion: 50 Resp: 12433  
Ion Ratio Lower Upper  
50 100  
52 30.7 22.9 42.5





#5

Vinyl chloride

Concen: 2.784 ug/L

RT: 1.374 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 62 Resp: 1246

Ion Ratio Lower Upper

62 100

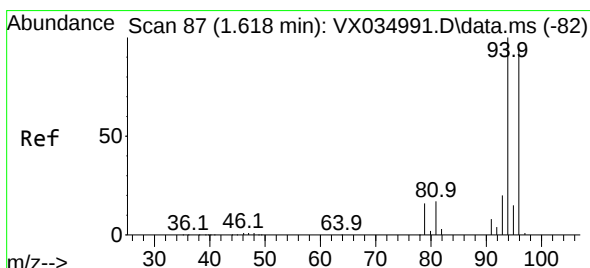
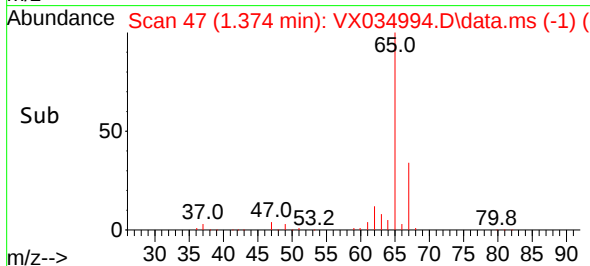
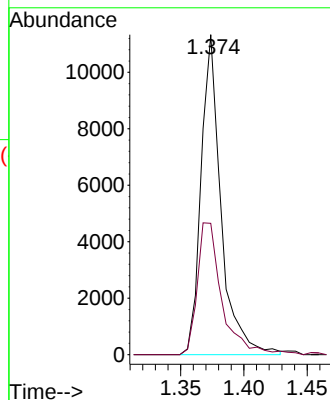
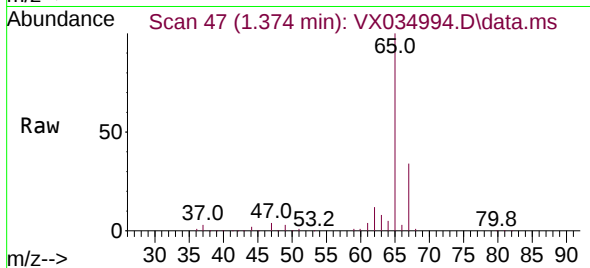
64 41.0 22.3 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#6

Bromomethane

Concen: 2.825 ug/L

RT: 1.618 min Scan# 87

Delta R.T. -0.000 min

Lab File: VX034994.D

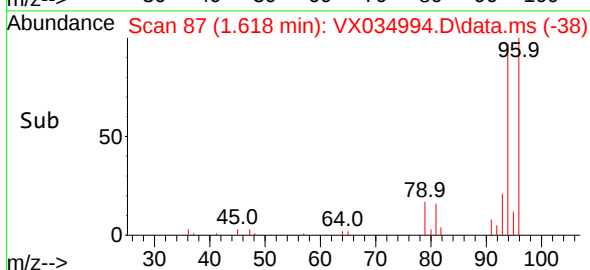
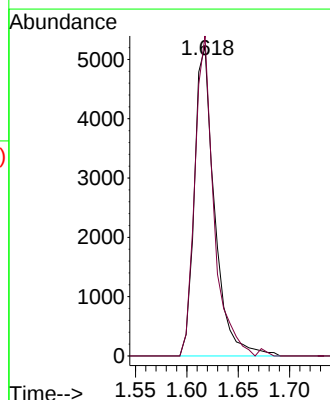
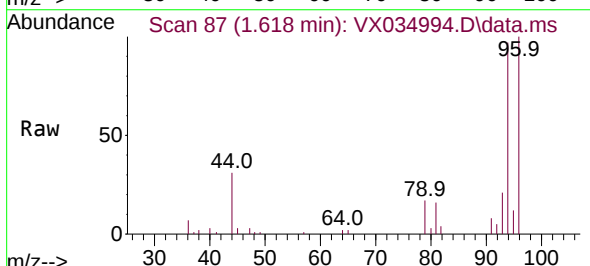
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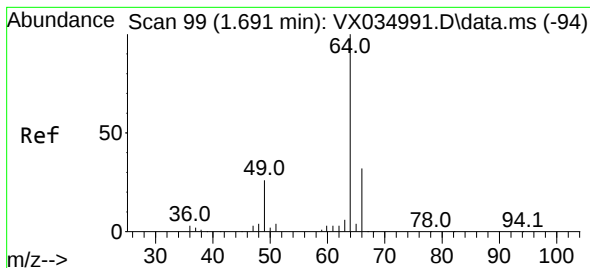
Tgt Ion: 94 Resp: 7146

Ion Ratio Lower Upper

94 100

96 103.4 66.6 123.6





#8

Chloroethane

Concen: 2.837 ug/L

RT: 1.691 min Scan# 99

Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 64 Resp: 7140

Ion Ratio Lower Upper

64 100

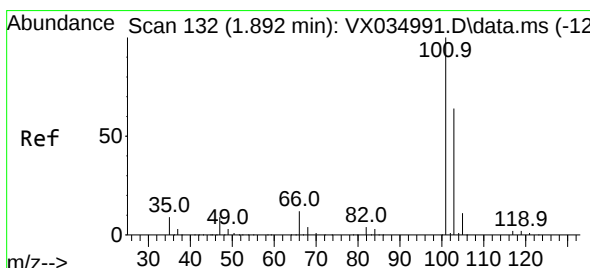
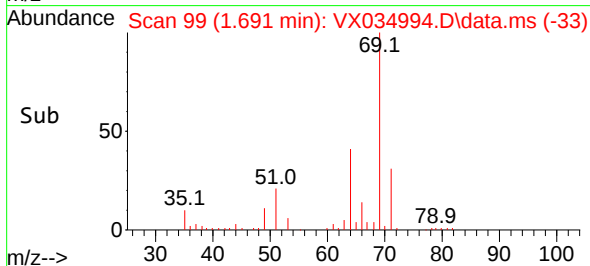
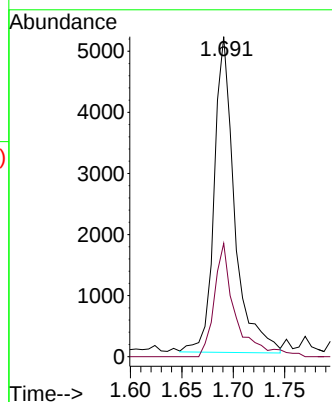
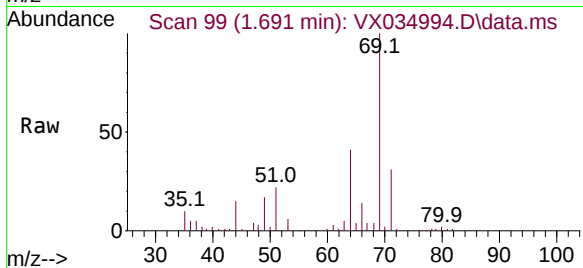
66 35.4 21.8 40.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#9

Trichlorofluoromethane

Concen: 2.761 ug/L

RT: 1.886 min Scan# 131

Delta R.T. -0.006 min

Lab File: VX034994.D

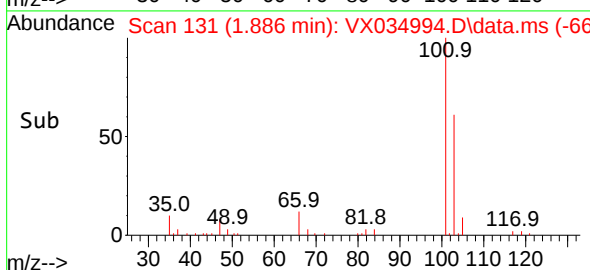
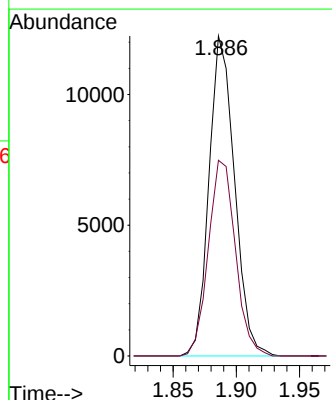
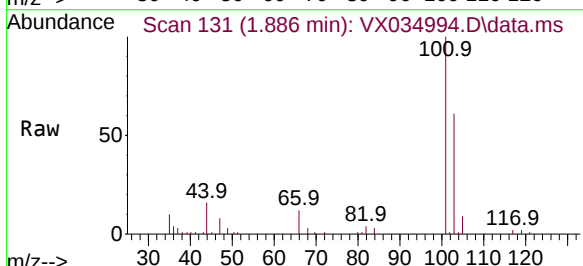
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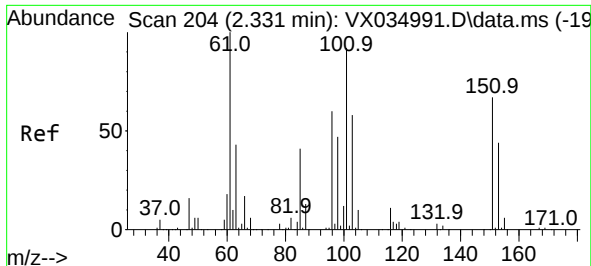
Tgt Ion:101 Resp: 17196

Ion Ratio Lower Upper

101 100

103 64.8 51.9 77.9





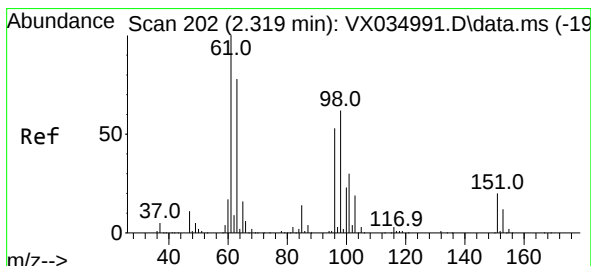
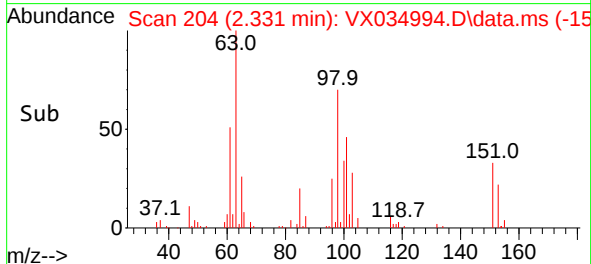
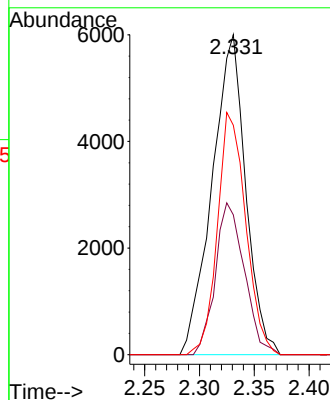
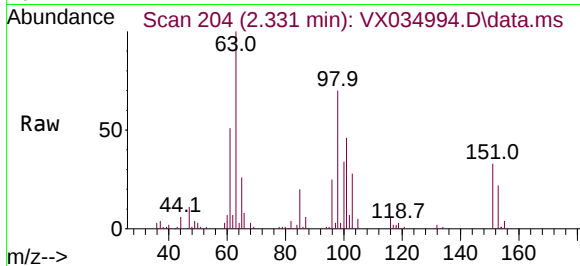
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1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 3.307 ug/L  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-WATER-QT2-2023-03

Tgt Ion:101 Resp: 1278  
Ion Ratio Lower Upper  
101 100  
85 41.0 36.4 54.6  
151 63.9 59.7 89.5

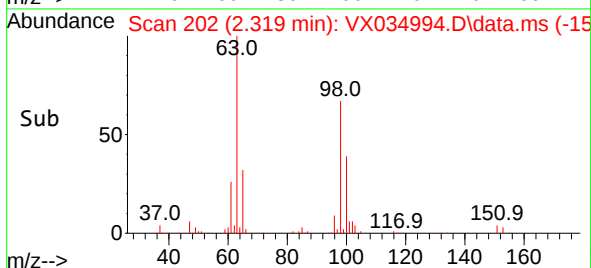
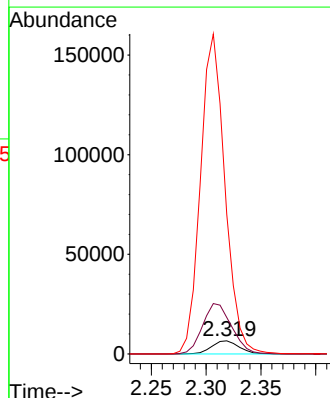
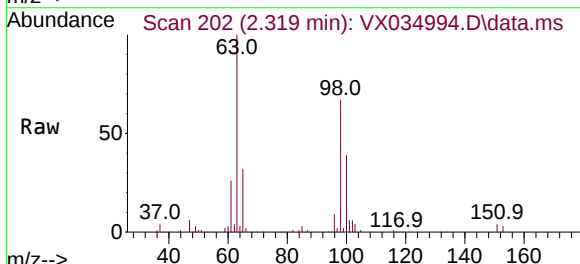
Manual Integrations  
APPROVED

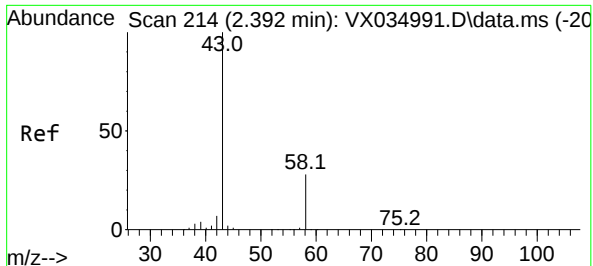
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#12  
1,1-Dichloroethene  
Concen: 3.347 ug/L  
RT: 2.319 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Tgt Ion: 96 Resp: 11512  
Ion Ratio Lower Upper  
96 100  
61 276.4 132.4 245.8#  
63 1059.3 105.5 195.9#





#13

Acetone

Concen: 6.126 ug/L

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 43 Resp: 14509

Ion Ratio Lower Upper

43 100

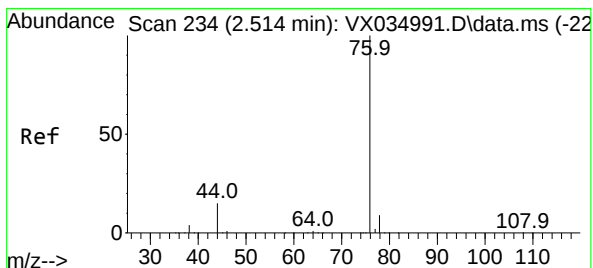
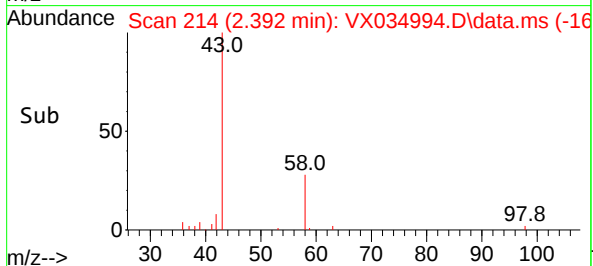
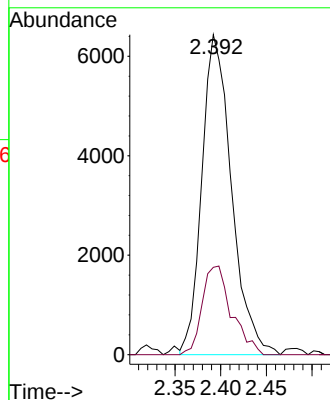
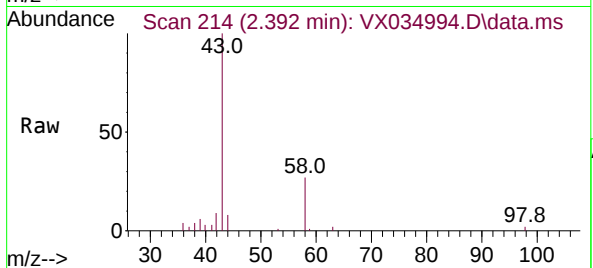
58 27.5 0.0 57.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#14

Carbon disulfide

Concen: 2.487 ug/L

RT: 2.508 min Scan# 233

Delta R.T. -0.006 min

Lab File: VX034994.D

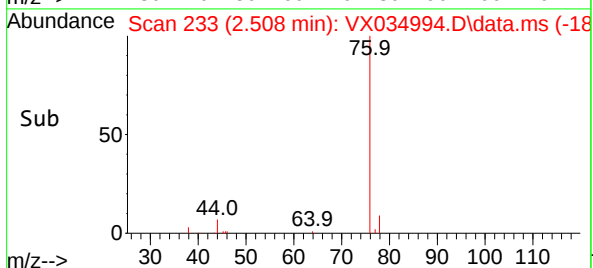
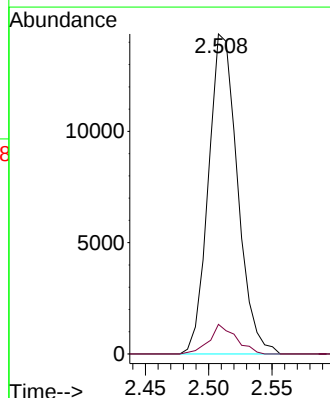
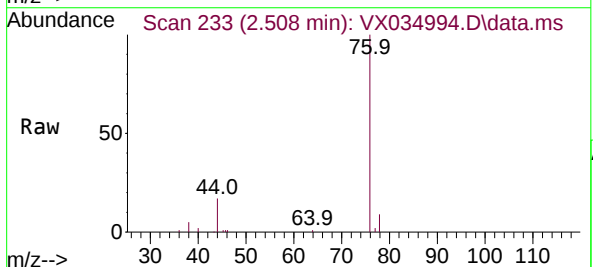
Acq: 10 Apr 2023 14:47

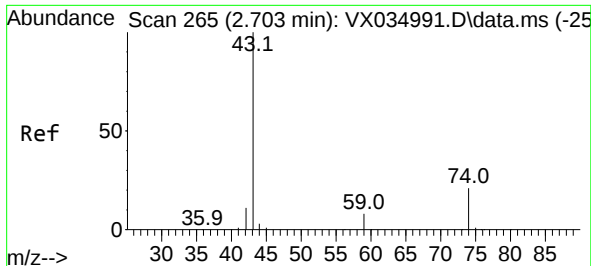
Tgt Ion: 76 Resp: 23002

Ion Ratio Lower Upper

76 100

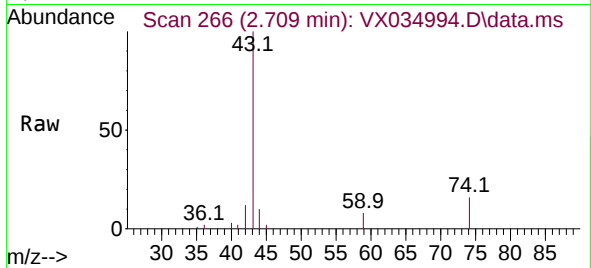
78 9.3 7.4 11.2





#15  
Methyl Acetate  
Concen: 2.706 ug/L  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

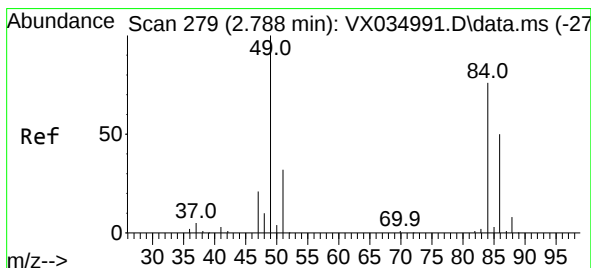
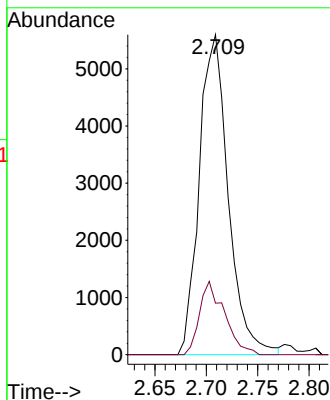
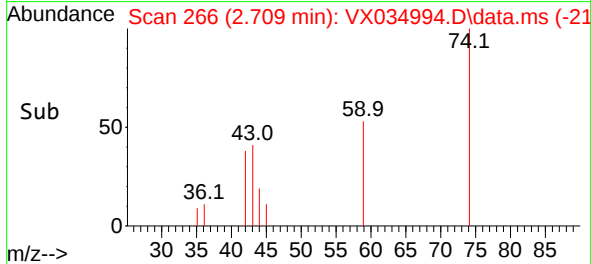
Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-WATER-QT2-2023-03



Tgt Ion: 43 Resp: 10998  
Ion Ratio Lower Upper  
43 100  
74 19.8 17.5 26.3

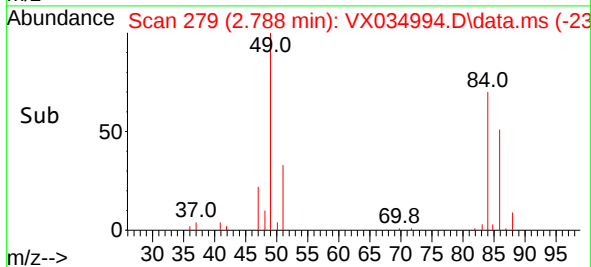
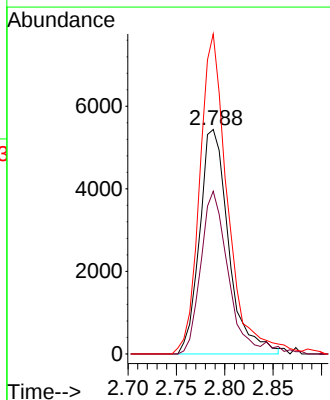
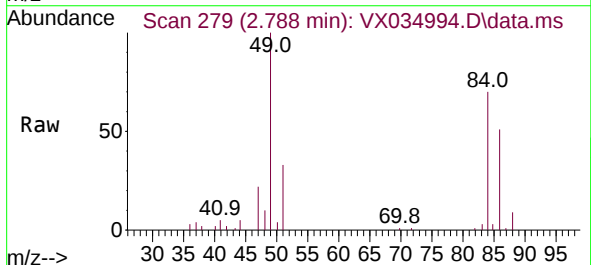
Manual Integrations  
APPROVED

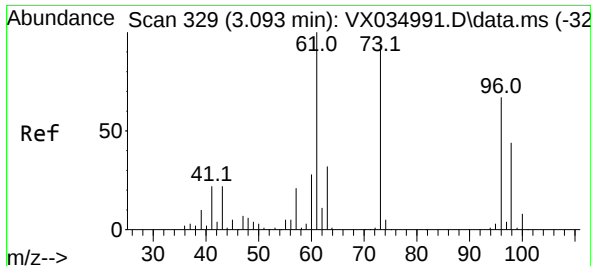
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#16  
Methylene chloride  
Concen: 3.018 ug/L  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

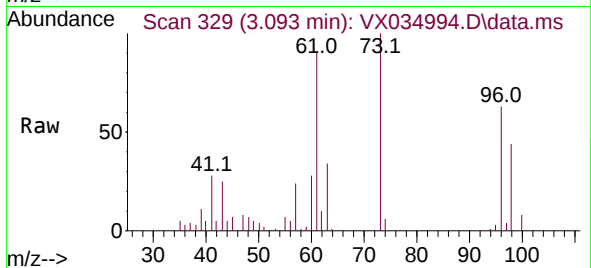
Tgt Ion: 84 Resp: 11390  
Ion Ratio Lower Upper  
84 100  
86 72.5 44.7 82.9  
49 142.5 92.3 171.5





#17  
trans-1,2-Dichloroethene  
Concen: 2.631 ug/L  
RT: 3.093 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

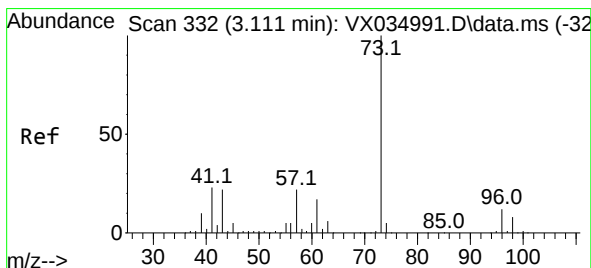
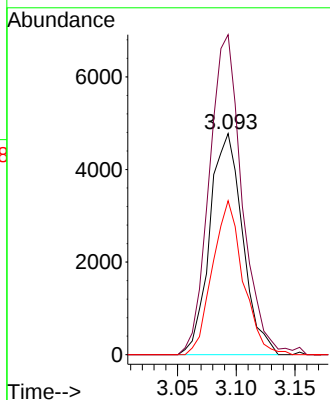
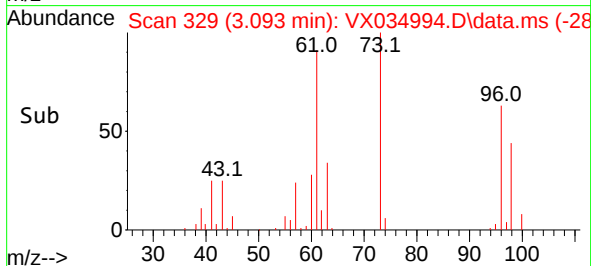
Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-WATER-QT2-2023-03



Tgt Ion: 96 Resp: 9308  
Ion Ratio Lower Upper  
96 100  
61 144.8 102.0 189.4  
98 69.7 44.2 82.0

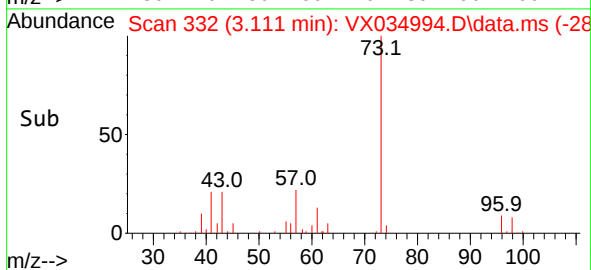
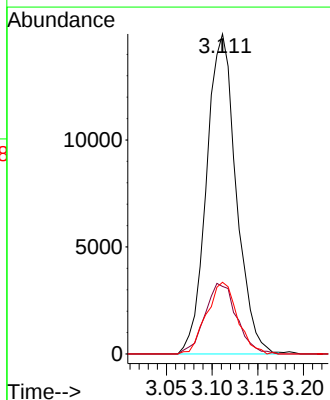
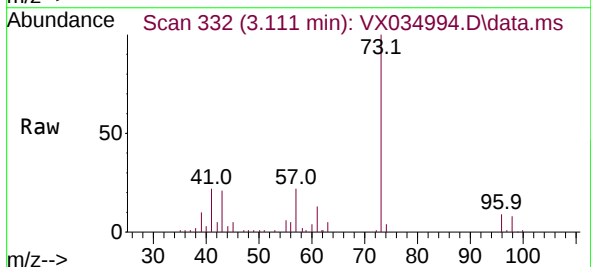
Manual Integrations  
APPROVED

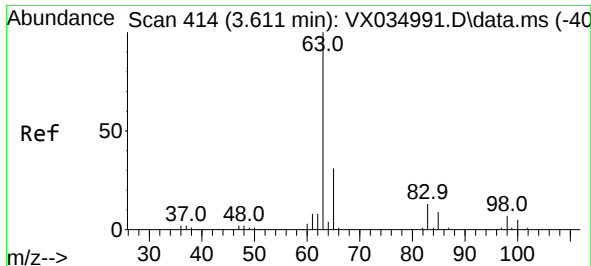
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#18  
Methyl tert-butyl Ether  
Concen: 2.726 ug/L  
RT: 3.111 min Scan# 332  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Tgt Ion: 73 Resp: 33705  
Ion Ratio Lower Upper  
73 100  
43 23.6 18.2 27.2  
57 23.2 17.7 26.5





#19

1,1-Dichloroethane

Concen: 2.643 ug/L

RT: 3.611 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX034994.D

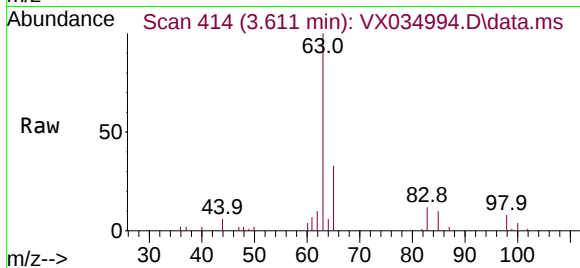
Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03



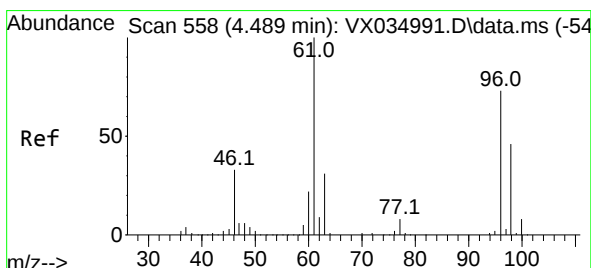
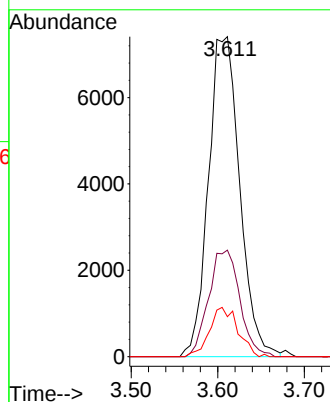
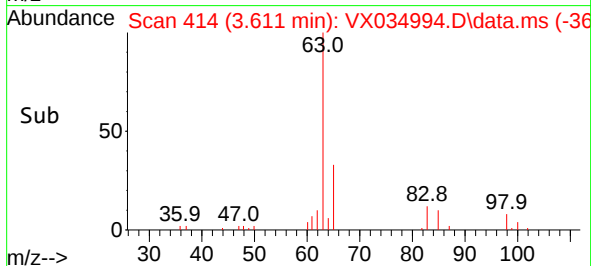
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 63    | Resp: | 1862 |
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 65        | 33.3  | 22.1  | 41.1 |
| 83        | 12.5  | 9.7   | 17.9 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#20

cis-1,2-Dichloroethene

Concen: 2.675 ug/L

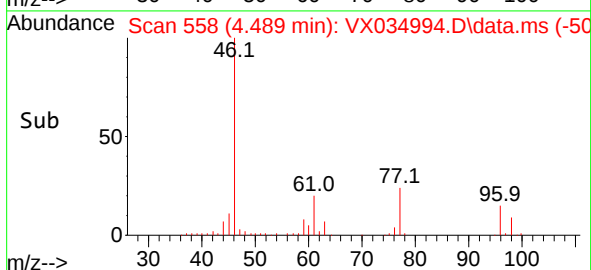
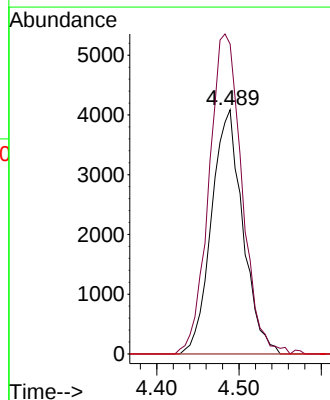
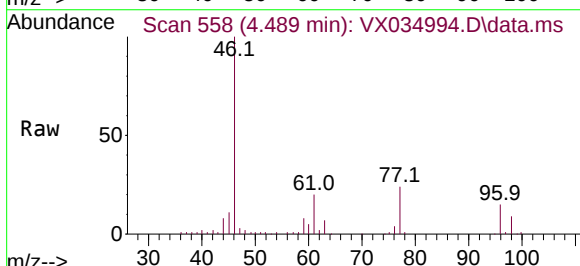
RT: 4.489 min Scan# 558

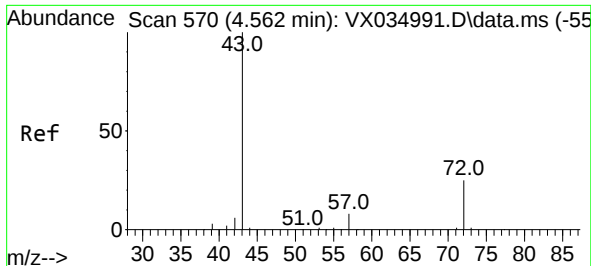
Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 10824 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 126.9 | 95.7  | 177.7 |
| 68        | 0.0   | 0.0   | 0.0   |





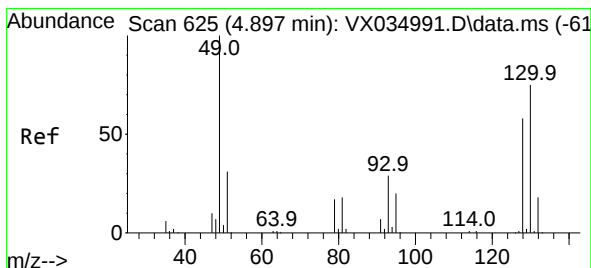
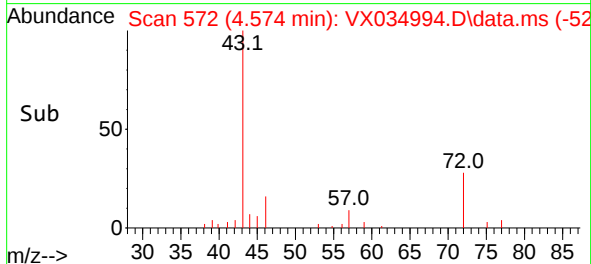
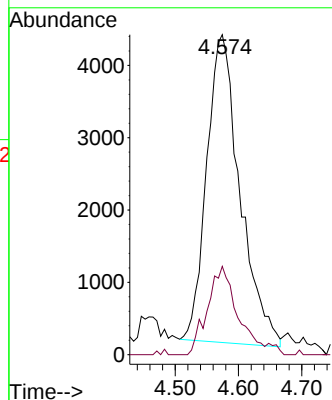
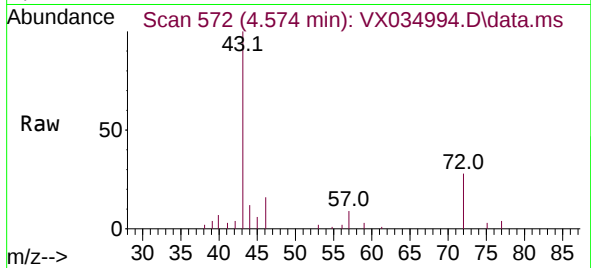
#22  
2-Butanone  
Concen: 5.135 ug/L  
RT: 4.574 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-WATER-QT2-2023-03

Tgt Ion: 43 Resp: 15534  
Ion Ratio Lower Upper  
43 100  
72 25.8 11.5 34.5

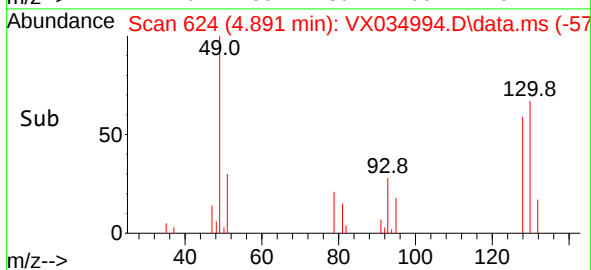
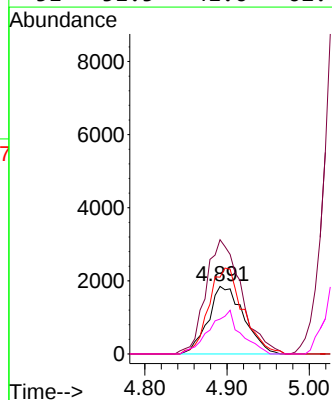
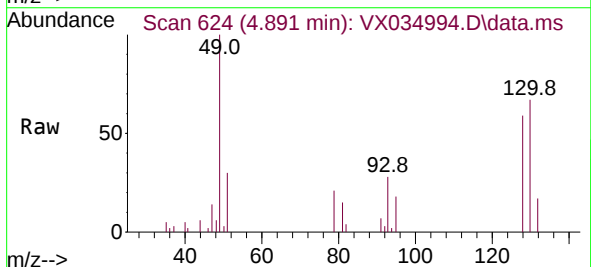
Manual Integrations  
APPROVED

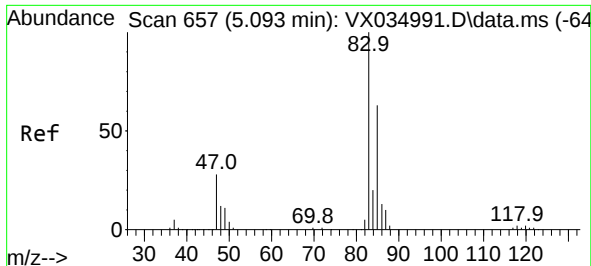
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#23  
Bromochloromethane  
Concen: 2.789 ug/L  
RT: 4.891 min Scan# 624  
Delta R.T. -0.006 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Tgt Ion:128 Resp: 5584  
Ion Ratio Lower Upper  
128 100  
49 169.0 123.9 230.1  
130 113.6 92.1 171.1  
51 51.5 41.6 62.4





#25

Chloroform

Concen: 3.370 ug/L

RT: 5.087 min Scan# 6

Delta R.T. -0.006 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 83 Resp: 24349

Ion Ratio Lower Upper

83 100

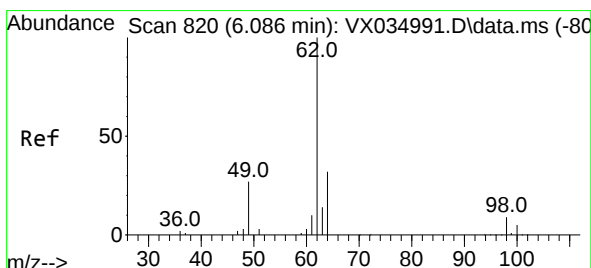
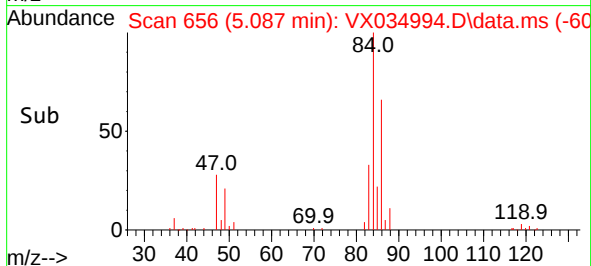
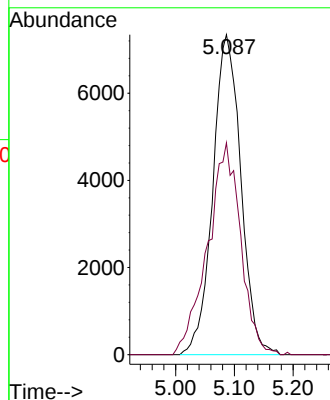
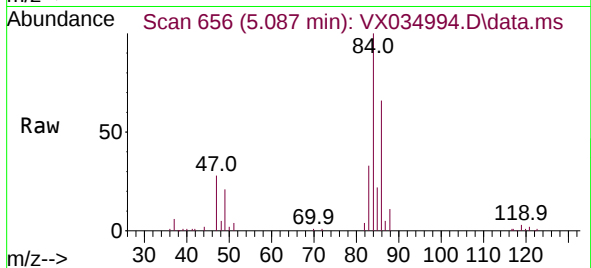
85 66.2 45.1 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#27

1,2-Dichloroethane

Concen: 2.857 ug/L m

RT: 6.086 min Scan# 820

Delta R.T. -0.000 min

Lab File: VX034994.D

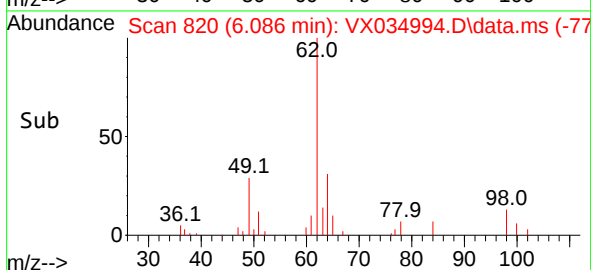
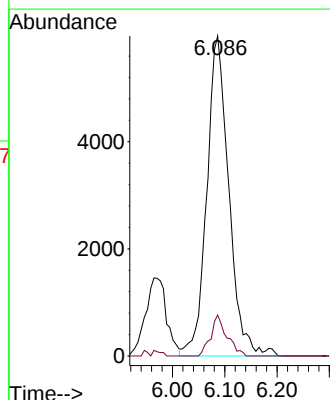
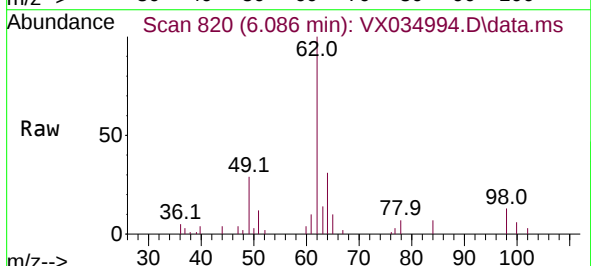
Acq: 10 Apr 2023 14:47

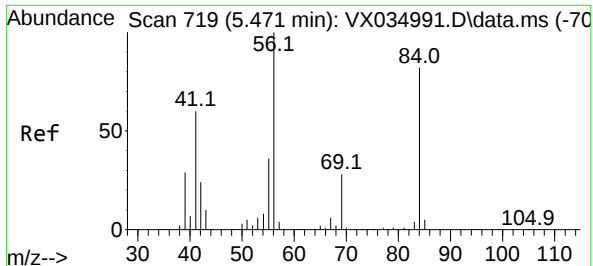
Tgt Ion: 62 Resp: 17482

Ion Ratio Lower Upper

62 100

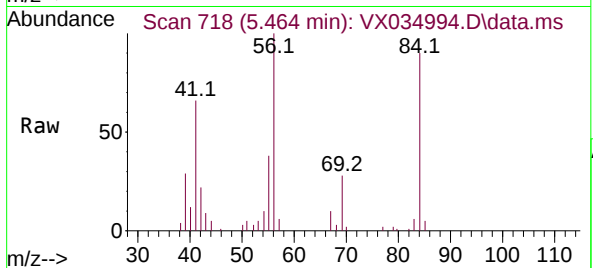
98 12.8 7.0 10.6#





#29  
Cyclohexane  
Concen: 2.666 ug/L  
RT: 5.464 min Scan# 718  
Delta R.T. -0.006 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

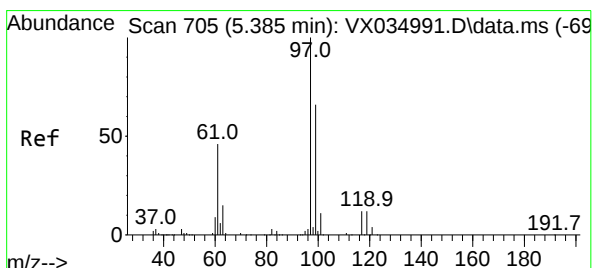
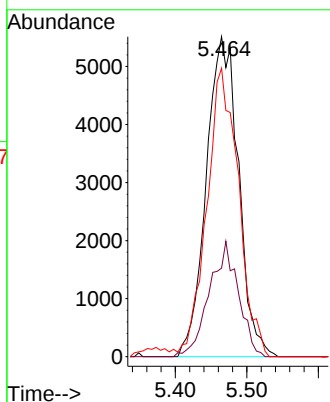
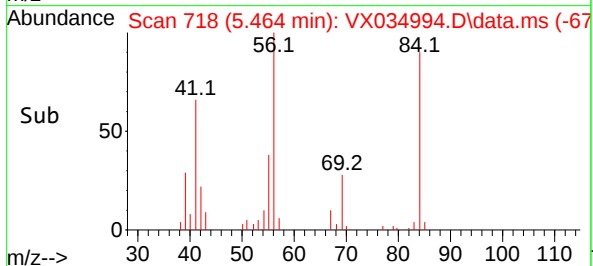
Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03



Tgt Ion: 56 Resp: 1727  
Ion Ratio Lower Upper  
56 100  
69 19.6 24.5 36.7  
84 88.2 69.4 104.2

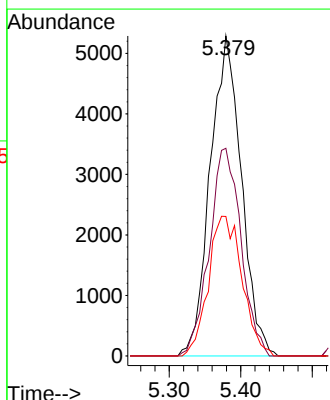
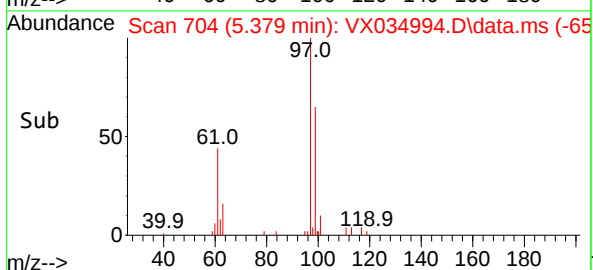
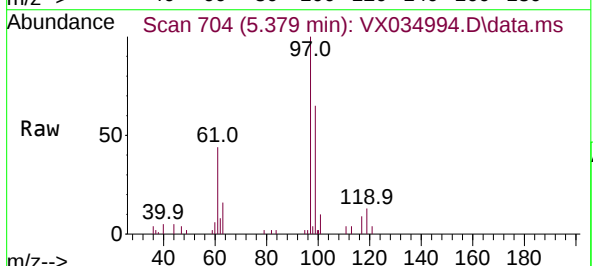
Manual Integrations  
APPROVED

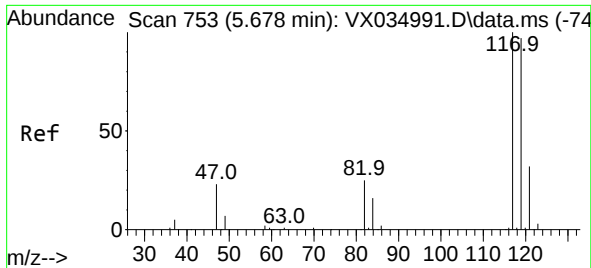
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#30  
1,1,1-Trichloroethane  
Concen: 2.574 ug/L  
RT: 5.379 min Scan# 704  
Delta R.T. -0.006 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

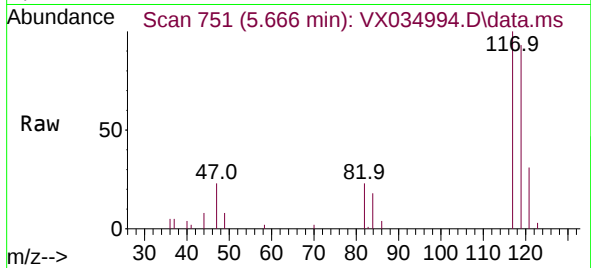
Tgt Ion: 97 Resp: 16033  
Ion Ratio Lower Upper  
97 100  
99 65.8 51.0 76.4  
61 47.1 36.8 55.2





#31  
Carbon tetrachloride  
Concen: 2.482 ug/L  
RT: 5.666 min Scan# 751  
Delta R.T. -0.012 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

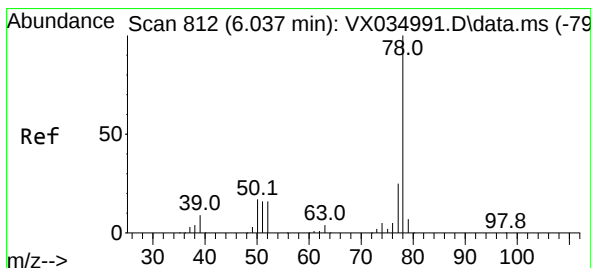
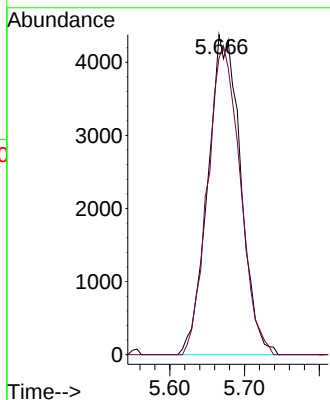
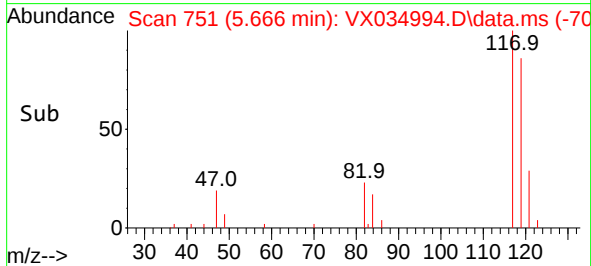
Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-WATER-QT2-2023-03



Tgt Ion: 117 Resp: 13320  
Ion Ratio Lower Upper  
117 100  
119 95.9 76.7 115.1

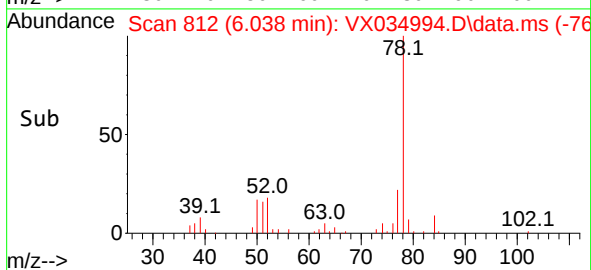
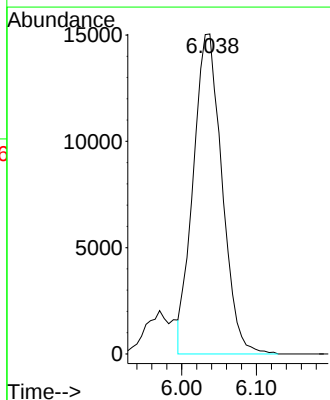
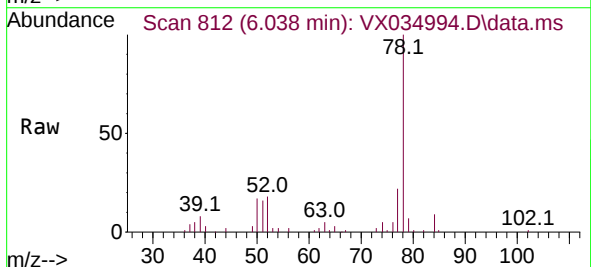
Manual Integrations  
APPROVED

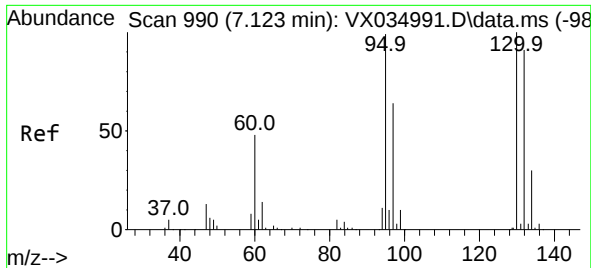
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#33  
Benzene  
Concen: 2.678 ug/L  
RT: 6.038 min Scan# 812  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

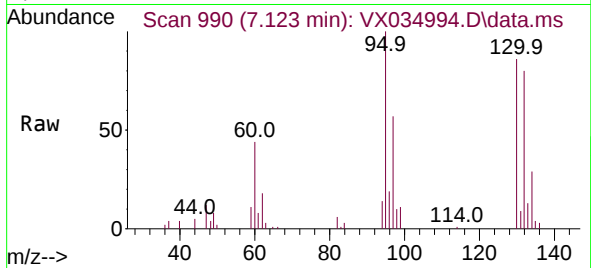
Tgt Ion: 78 Resp: 40240





#34  
Trichloroethene  
Concen: 2.832 ug/L  
RT: 7.123 min Scan# 990  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

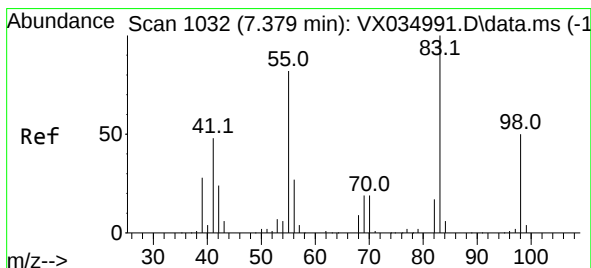
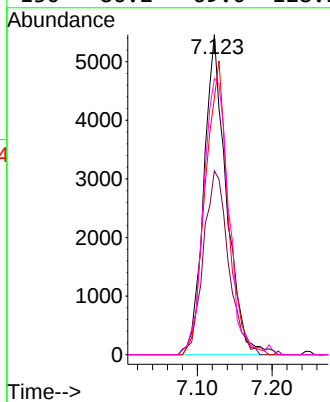
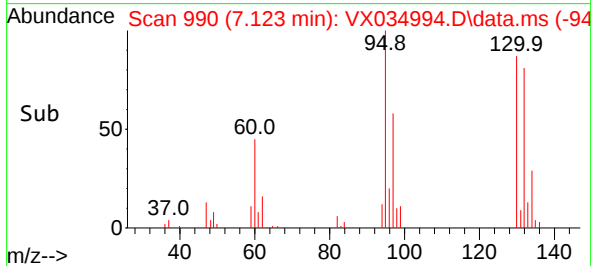
Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03



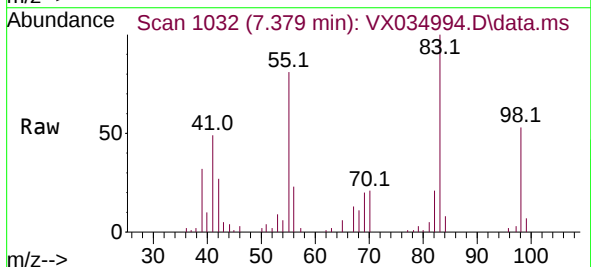
Tgt Ion: 95 Resp: 11470  
Ion Ratio Lower Upper  
95 100  
97 57.4 45.4 84.2  
132 80.1 66.8 124.0  
130 86.2 69.0 128.1

Manual Integrations  
APPROVED

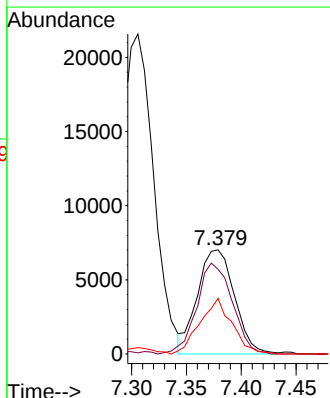
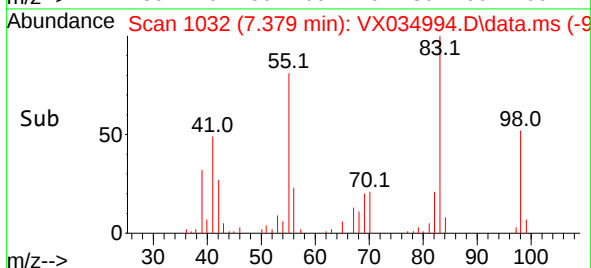
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023

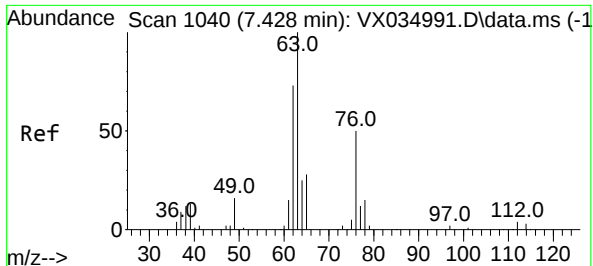


#35  
Methylcyclohexane  
Concen: 2.834 ug/L  
RT: 7.379 min Scan# 1032  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47



Tgt Ion: 83 Resp: 16551  
Ion Ratio Lower Upper  
83 100  
55 83.1 65.0 97.6  
98 46.2 38.7 58.1





#37

1,2-Dichloropropane

Concen: 2.616 ug/L

RT: 7.428 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

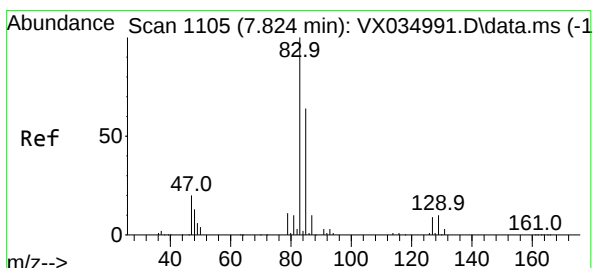
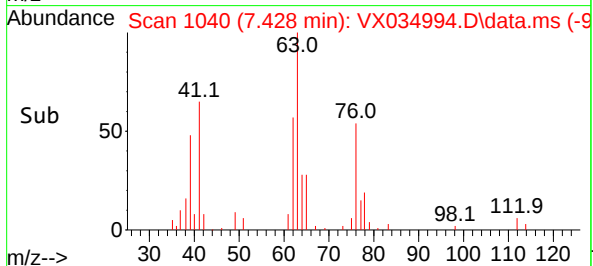
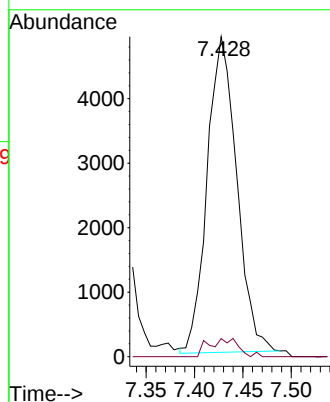
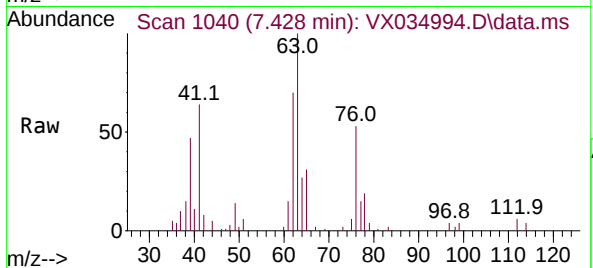
Tgt Ion: 63 Resp: 10410  
 Ion Ratio Lower Upper  
 63 100  
 112 3.5 3.6 5.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#38

Bromodichloromethane

Concen: 2.411 ug/L

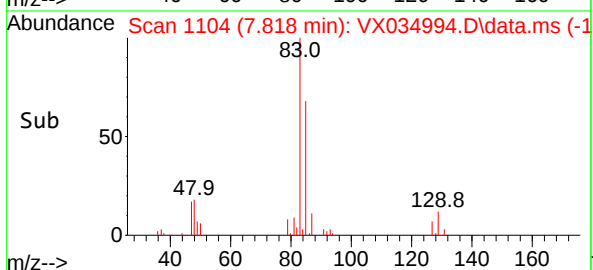
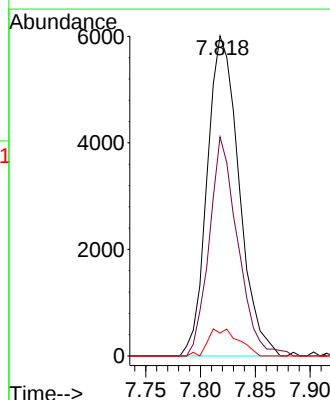
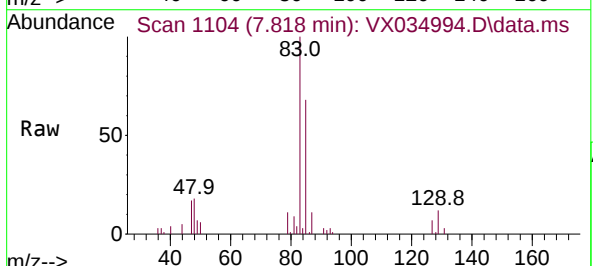
RT: 7.818 min Scan# 1104

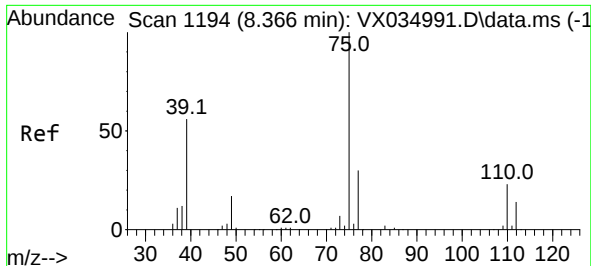
Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Tgt Ion: 83 Resp: 12143  
 Ion Ratio Lower Upper  
 83 100  
 85 68.5 45.6 84.6  
 127 7.2 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 2.467 ug/L

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 75 Resp: 15009

Ion Ratio Lower Upper

75 100

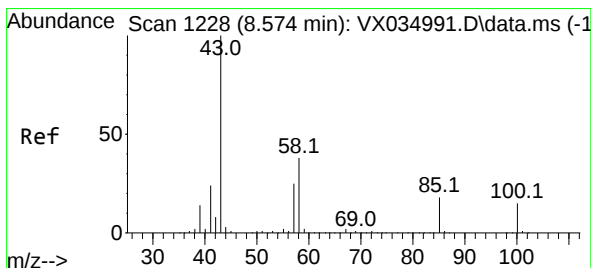
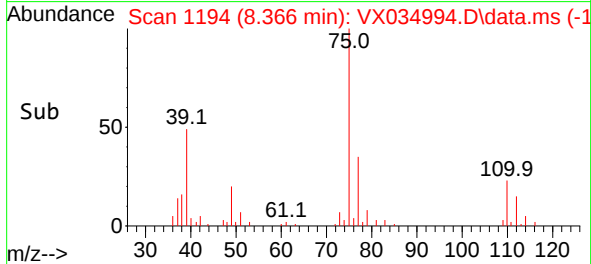
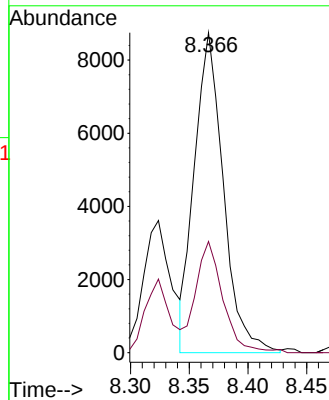
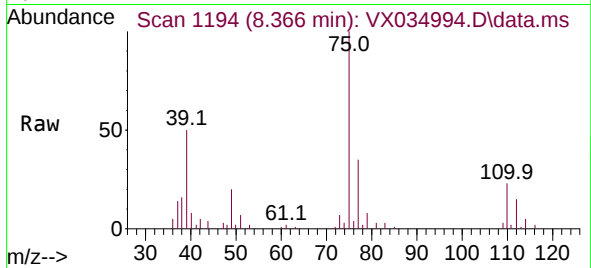
77 34.8 21.9 40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#40

4-Methyl-2-pentanone

Concen: 5.235 ug/L

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

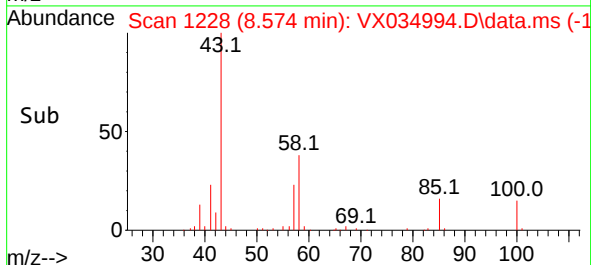
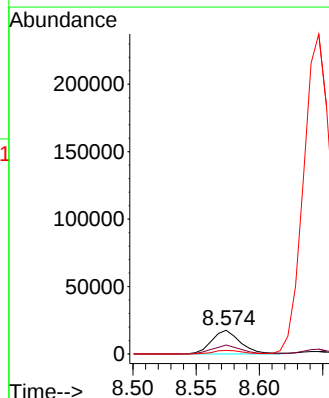
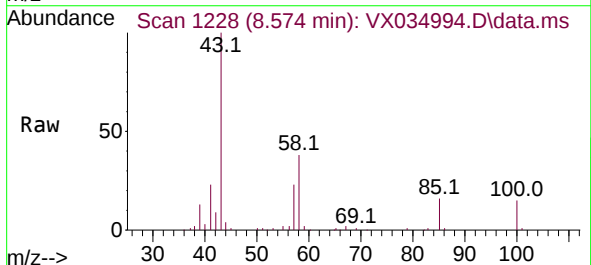
Tgt Ion: 43 Resp: 27691

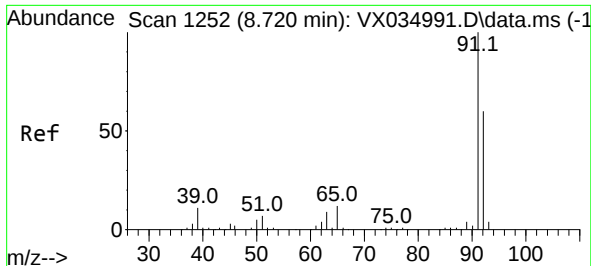
Ion Ratio Lower Upper

43 100

58 37.6 30.1 45.1

100 15.6 11.9 17.9





#42

Toluene

Concen: 2.767 ug/L

RT: 8.714 min Scan# 1251

Delta R.T. -0.006 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 91 Resp: 4304

Ion Ratio Lower Upper

91 100

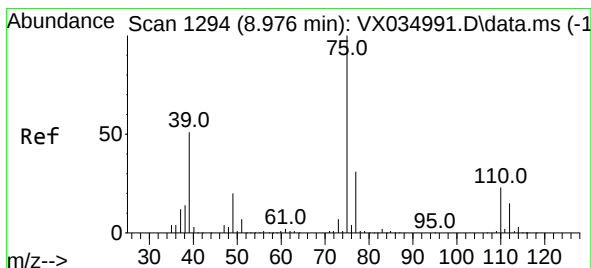
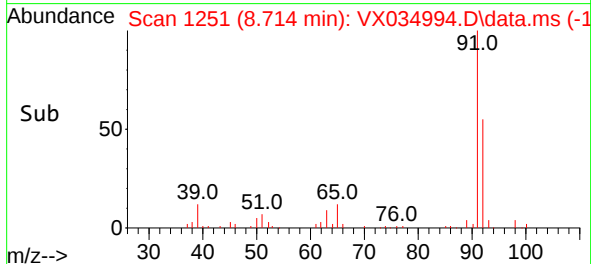
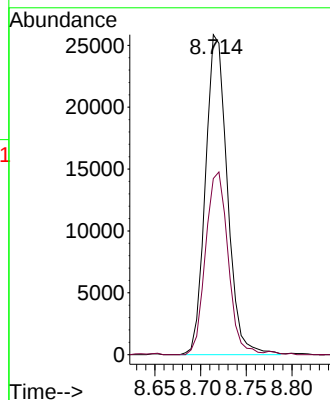
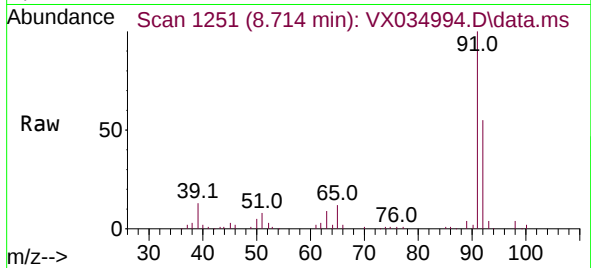
92 55.0 41.4 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#44

trans-1,3-Dichloropropene

Concen: 2.588 ug/L

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX034994.D

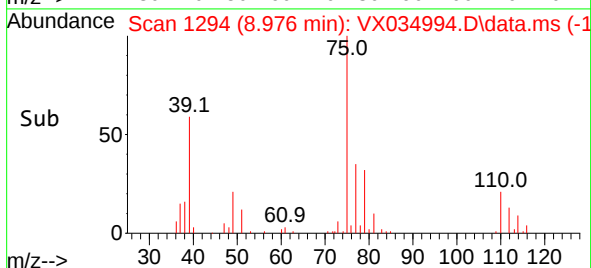
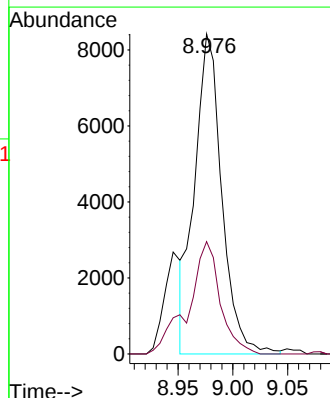
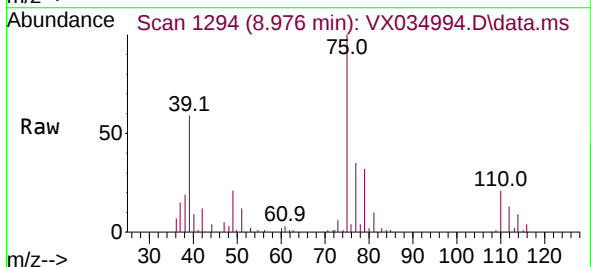
Acq: 10 Apr 2023 14:47

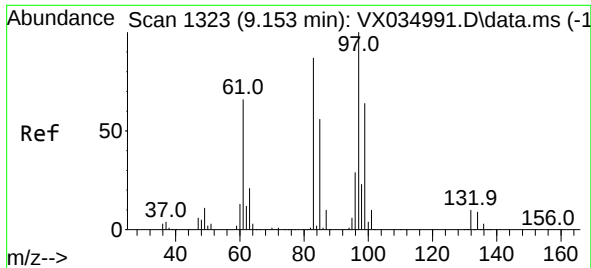
Tgt Ion: 75 Resp: 14496

Ion Ratio Lower Upper

75 100

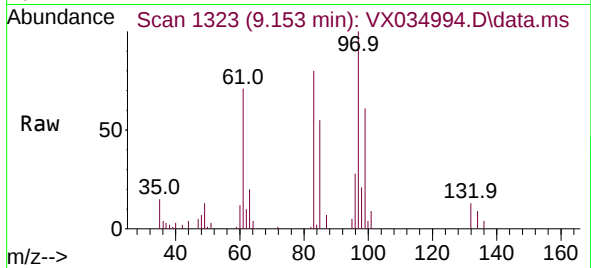
77 35.1 22.9 42.5





#45  
1,1,2-Trichloroethane  
Concen: 2.768 ug/L  
RT: 9.153 min Scan# 1323  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

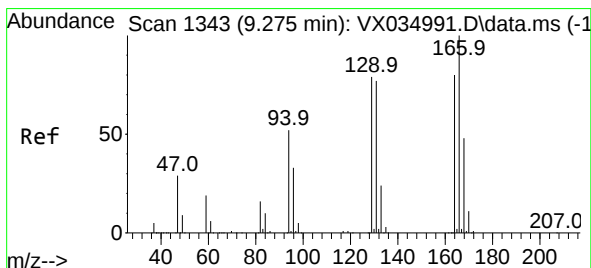
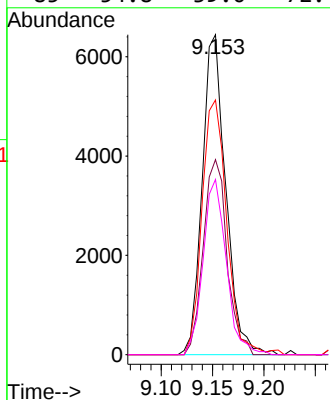
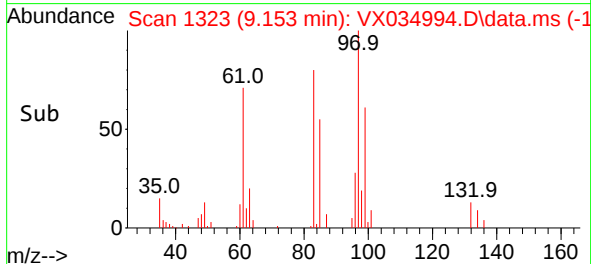
Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03



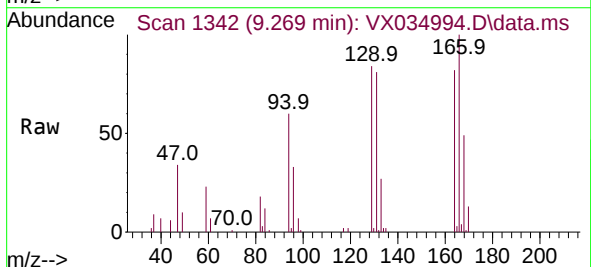
| Tgt Ion: | 97    | Resp: | 10274 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 60.9  | 44.8  | 83.2  |
| 83       | 79.6  | 60.5  | 112.3 |
| 85       | 54.8  | 39.0  | 72.4  |

Manual Integrations  
APPROVED

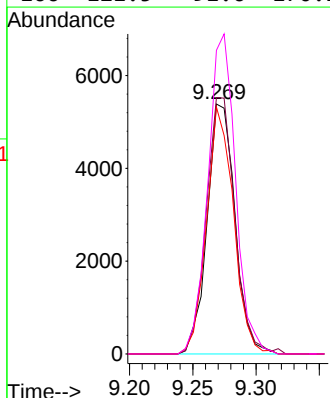
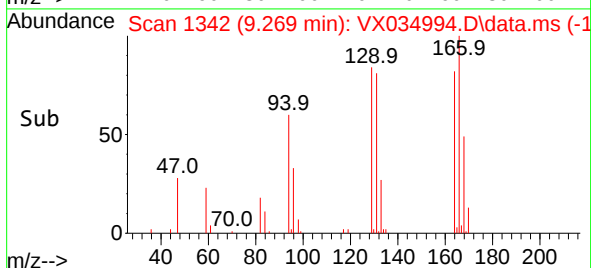
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023

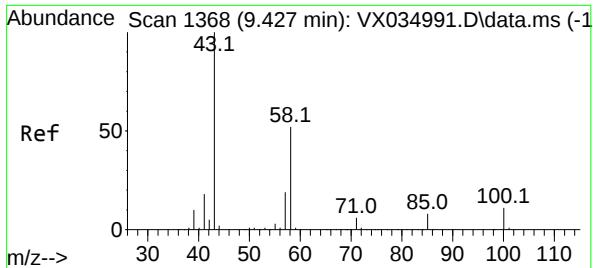


#46  
Tetrachloroethene  
Concen: 2.735 ug/L  
RT: 9.269 min Scan# 1342  
Delta R.T. -0.006 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47



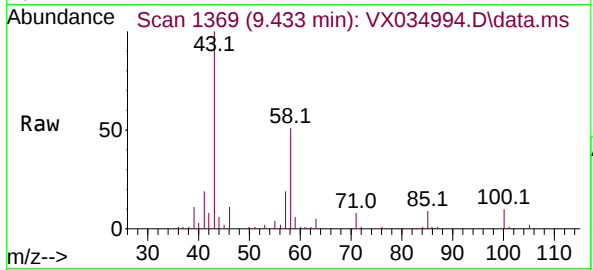
| Tgt Ion: | 164   | Resp: | 8254  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 102.6 | 67.7  | 125.7 |
| 131      | 98.8  | 65.8  | 122.2 |
| 166      | 121.5 | 91.6  | 170.2 |





#48  
2-Hexanone  
Concen: 5.696 ug/L m  
RT: 9.433 min Scan# 1369  
Delta R.T. 0.006 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

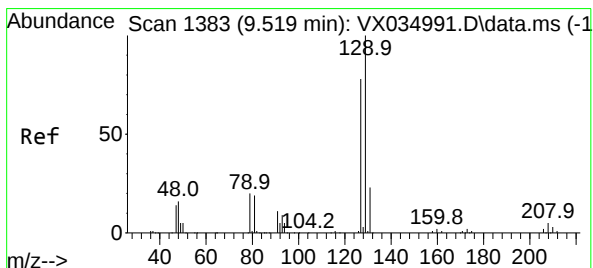
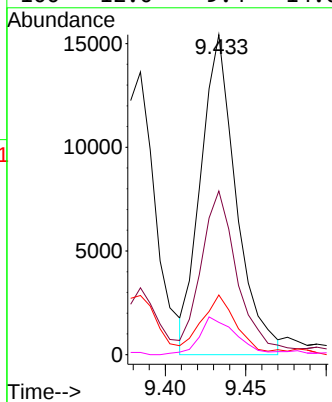
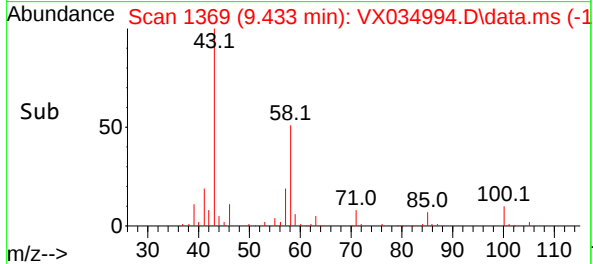
Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03



Tgt Ion: 43 Resp: 23618  
Ion Ratio Lower Upper  
43 100  
58 53.0 42.1 63.1  
57 18.3 15.0 22.6  
100 12.0 9.4 14.0

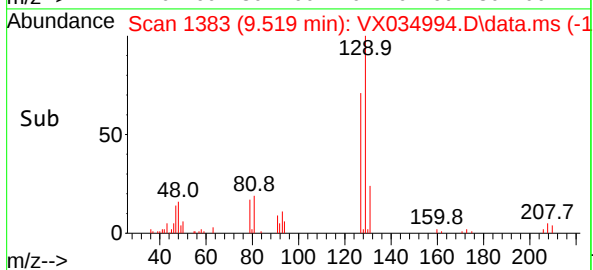
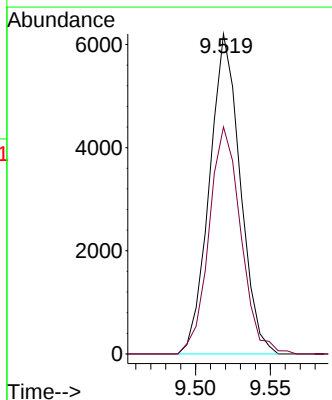
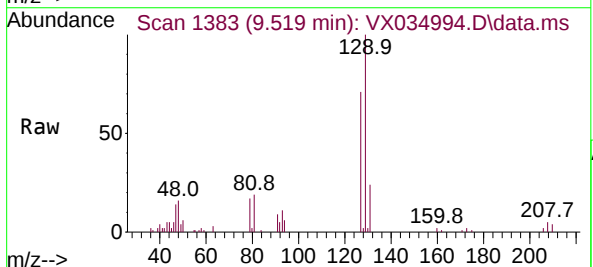
Manual Integrations  
APPROVED

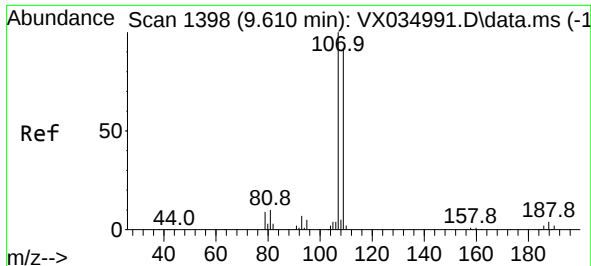
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#49  
Dibromochloromethane  
Concen: 2.426 ug/L  
RT: 9.519 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

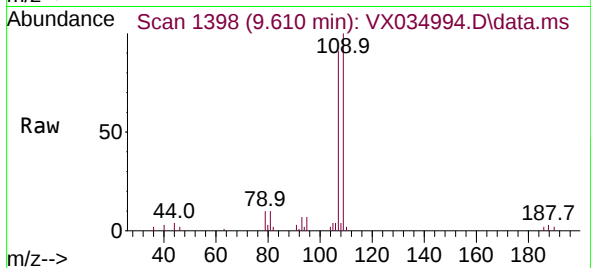
Tgt Ion:129 Resp: 8859  
Ion Ratio Lower Upper  
129 100  
127 70.9 55.0 102.2





#50  
1,2-Dibromoethane  
Concen: 2.547 ug/L  
RT: 9.610 min Scan# 1398  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

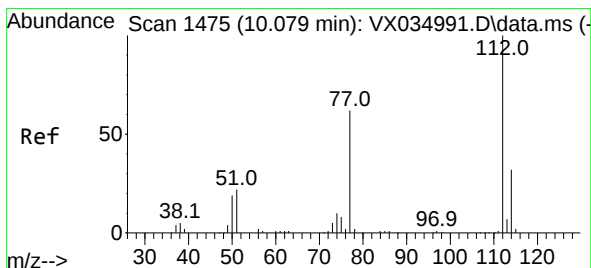
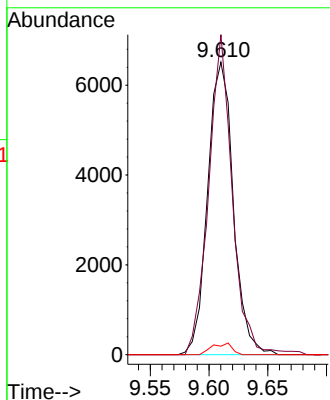
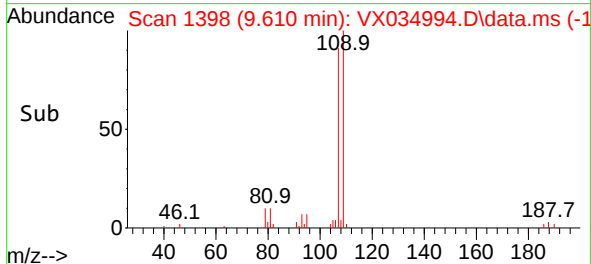
Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03



Tgt Ion:107 Resp: 9924  
Ion Ratio Lower Upper  
107 100  
109 109.4 65.4 121.4  
188 2.9 2.7 4.1

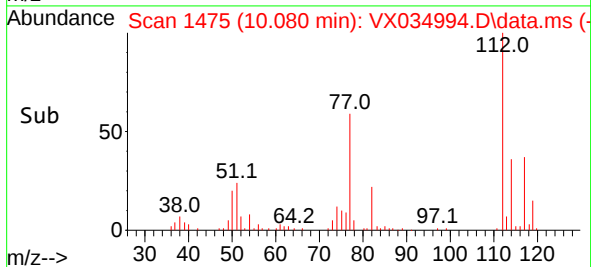
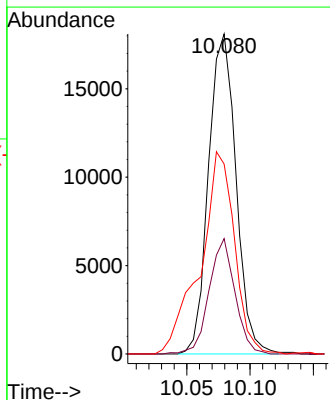
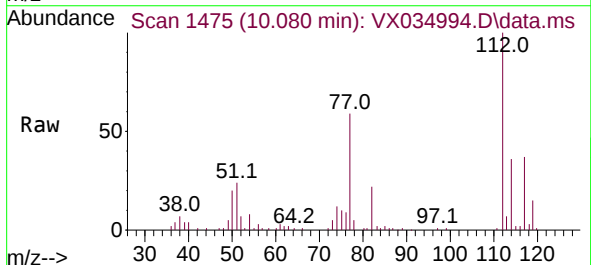
Manual Integrations  
APPROVED

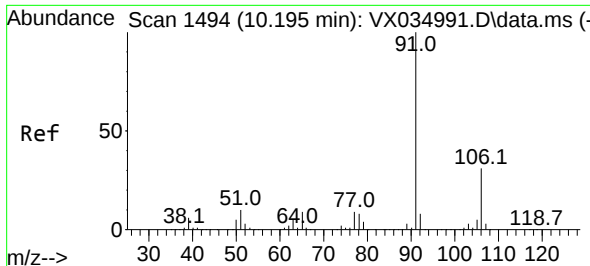
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#51  
Chlorobenzene  
Concen: 2.726 ug/L  
RT: 10.080 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

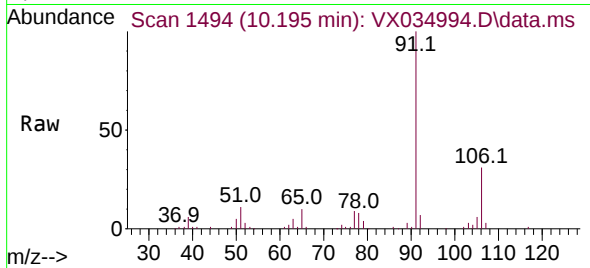
Tgt Ion:112 Resp: 27338  
Ion Ratio Lower Upper  
112 100  
114 36.0 22.6 42.0  
77 59.4 48.8 73.2





#52  
Ethylbenzene  
Concen: 2.729 ug/L  
RT: 10.195 min Scan# 1494  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

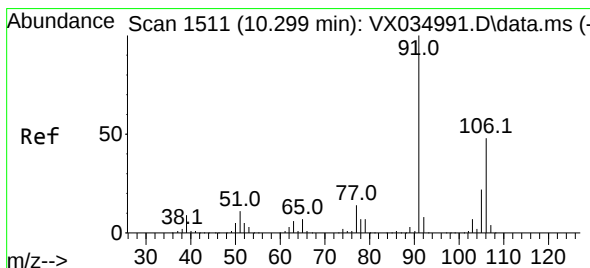
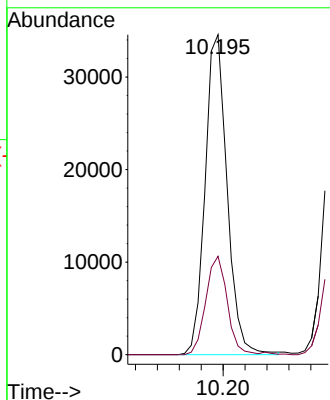
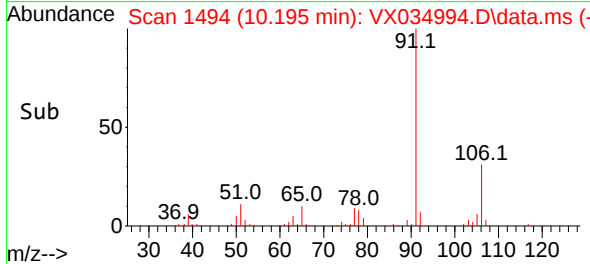
Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03



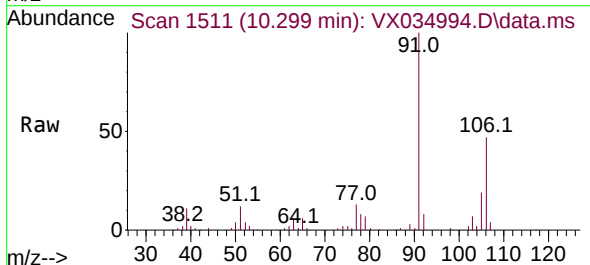
Tgt Ion: 91 Resp: 48180  
Ion Ratio Lower Upper  
91 100  
106 30.8 21.3 39.6

Manual Integrations  
APPROVED

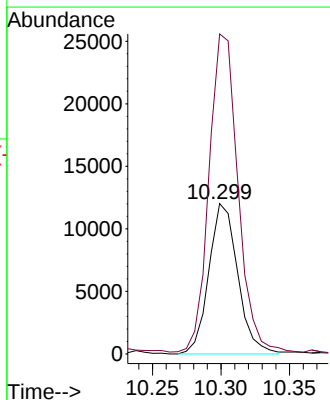
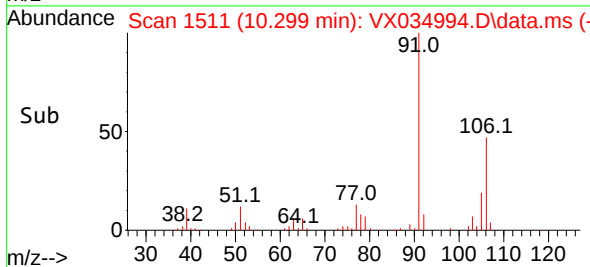
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023

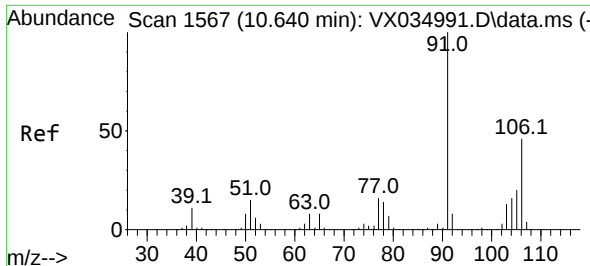


#53  
m,p-Xylene  
Concen: 2.650 ug/L  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47



Tgt Ion:106 Resp: 17634  
Ion Ratio Lower Upper  
106 100  
91 212.8 146.4 272.0





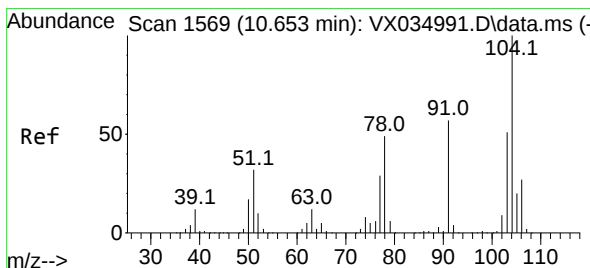
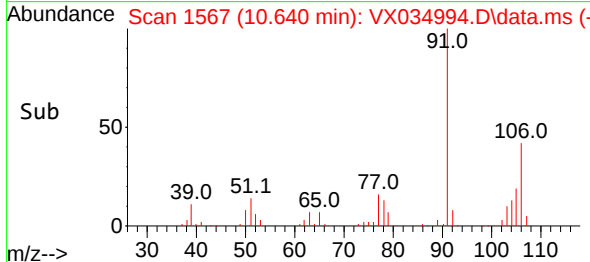
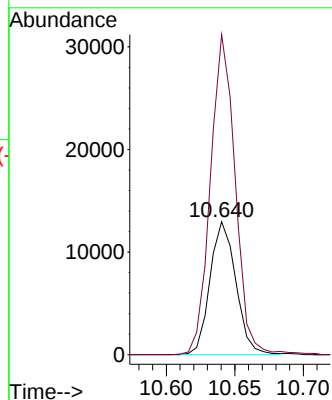
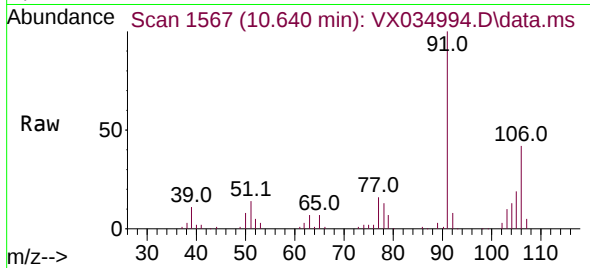
#54  
o-Xylene  
Concen: 2.600 ug/L  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03

Tgt Ion:106 Resp: 17045  
Ion Ratio Lower Upper  
106 100  
91 240.5 154.0 286.0

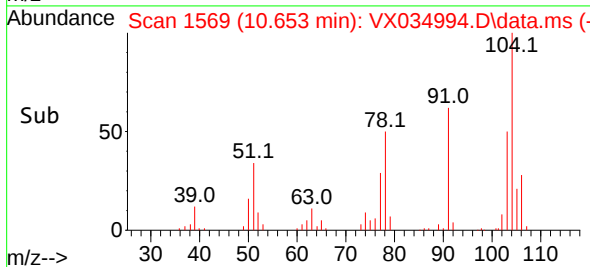
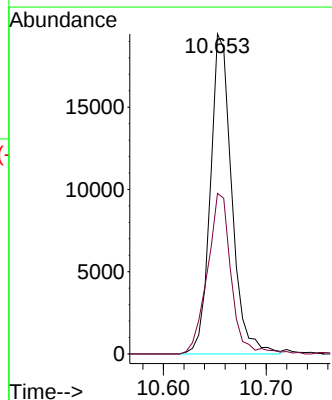
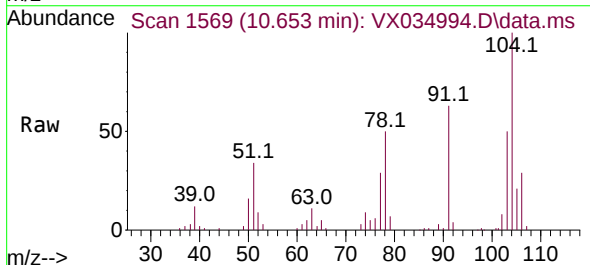
Manual Integrations  
APPROVED

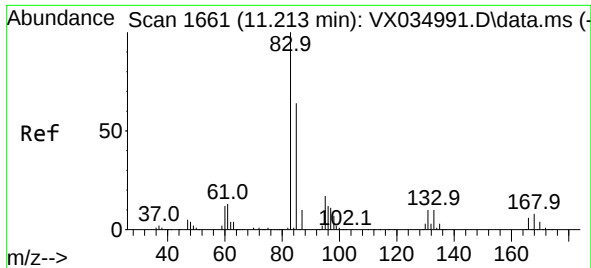
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#55  
Styrene  
Concen: 2.560 ug/L  
RT: 10.653 min Scan# 1569  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Tgt Ion:104 Resp: 28132  
Ion Ratio Lower Upper  
104 100  
78 50.2 35.4 65.8





#57

1,1,2,2-Tetrachloroethane

Concen: 2.878 ug/L

RT: 11.213 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

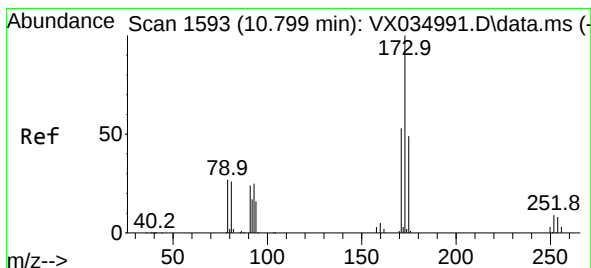
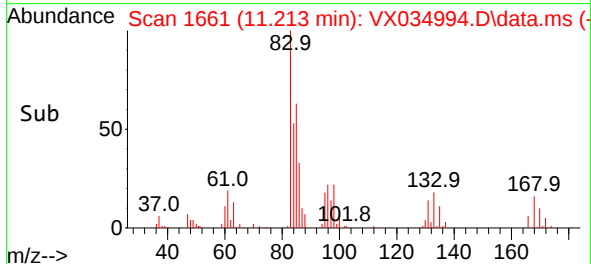
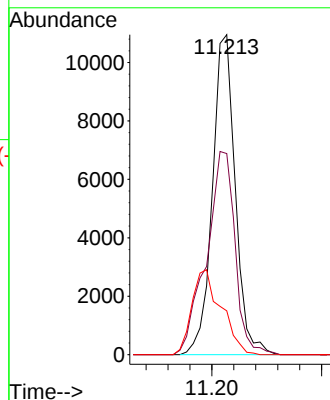
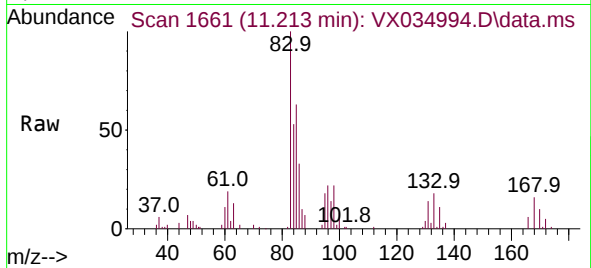
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 83    | Resp: | 1586 |
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 85        | 62.8  | 45.5  | 84.5 |
| 131       | 13.7  | 8.6   | 12.8 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#59

Bromoform

Concen: 2.078 ug/L

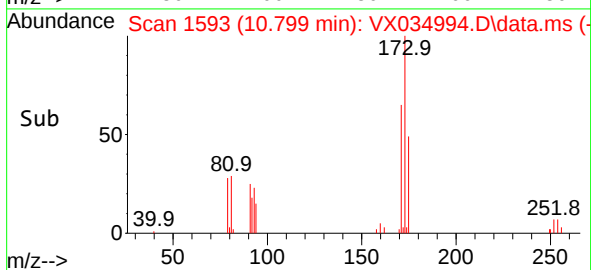
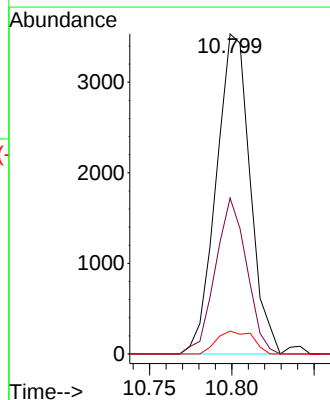
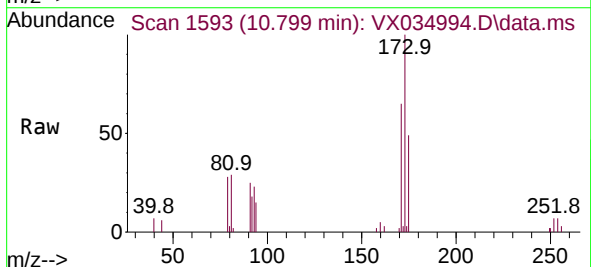
RT: 10.799 min Scan# 1593

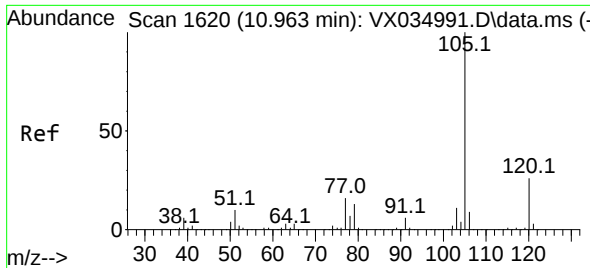
Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 173   | Resp: | 5054 |
| Ion Ratio | Lower | Upper |      |
| 173       | 100   |       |      |
| 175       | 45.2  | 39.0  | 58.4 |
| 254       | 7.6   | 7.3   | 10.9 |





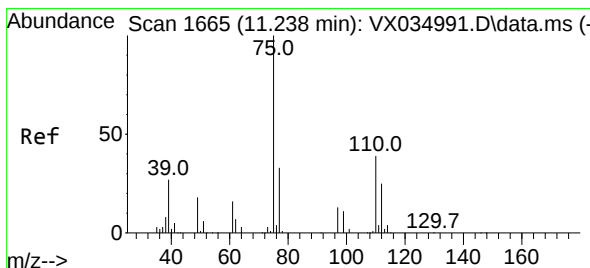
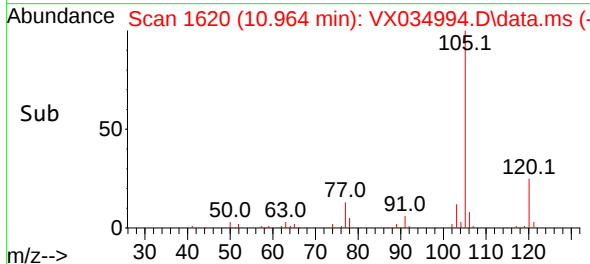
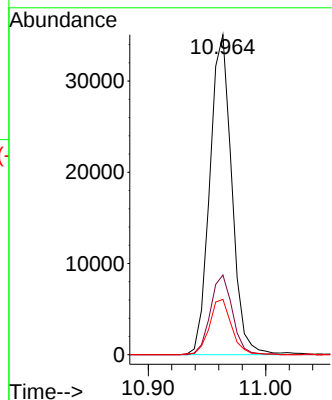
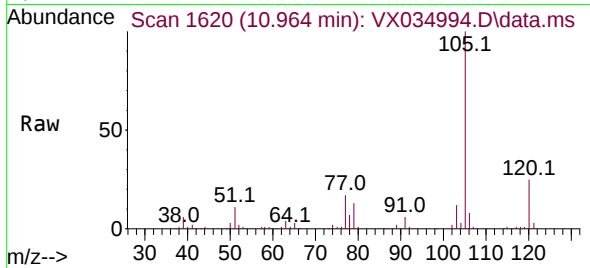
#60  
Isopropylbenzene  
Concen: 2.732 ug/L  
RT: 10.964 min Scan# 1620  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03

Tgt Ion:105 Resp: 45504  
Ion Ratio Lower Upper  
105 100  
120 25.0 21.1 31.7  
77 17.5 13.3 19.9

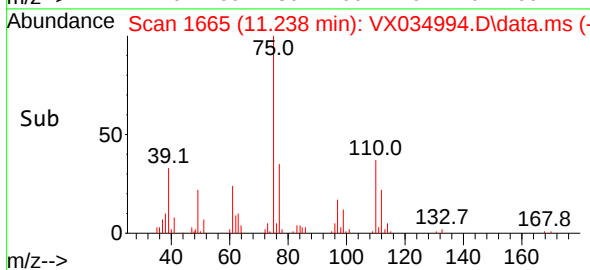
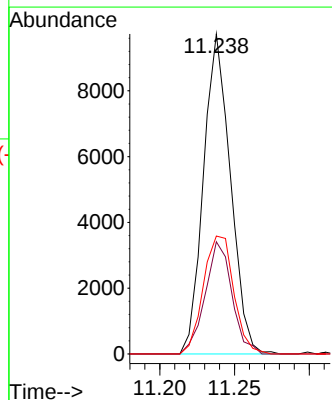
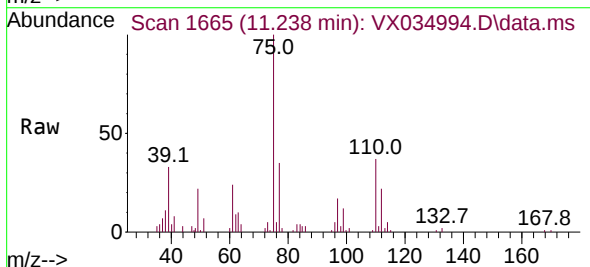
Manual Integrations  
APPROVED

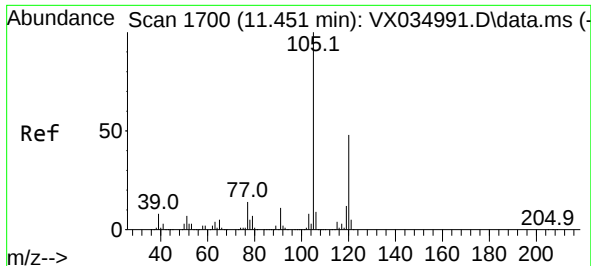
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#61  
1,2,3-Trichloropropane  
Concen: 2.787 ug/L  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Tgt Ion: 75 Resp: 12187  
Ion Ratio Lower Upper  
75 100  
77 34.8 25.3 37.9  
110 41.6 31.8 47.8





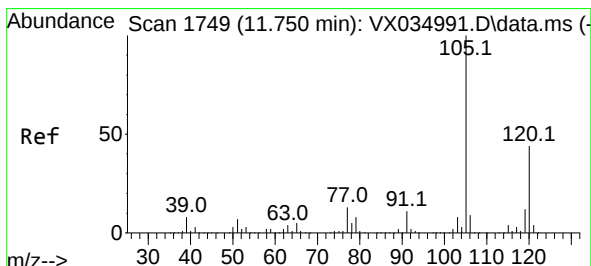
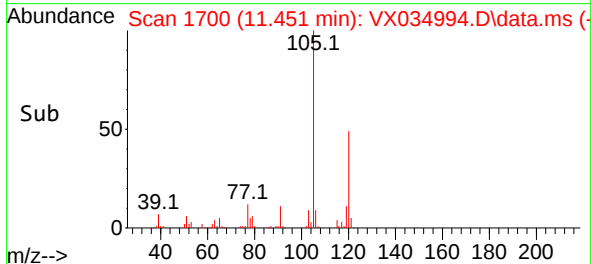
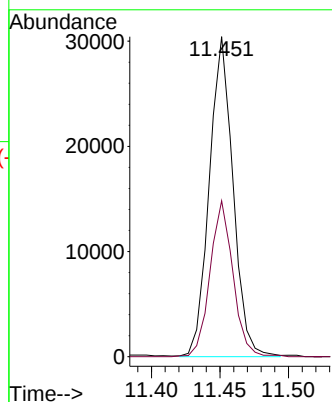
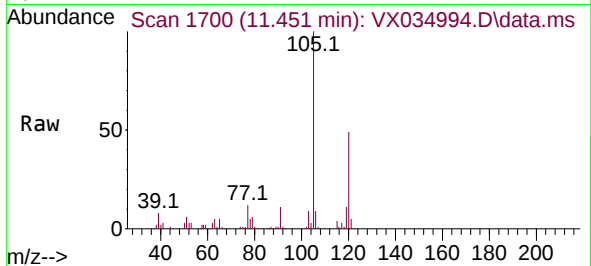
#62  
1,3,5-Trimethylbenzene  
Concen: 2.653 ug/L  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03

Tgt Ion:105 Resp: 3663  
Ion Ratio Lower Upper  
105 100  
120 46.0 38.0 57.0

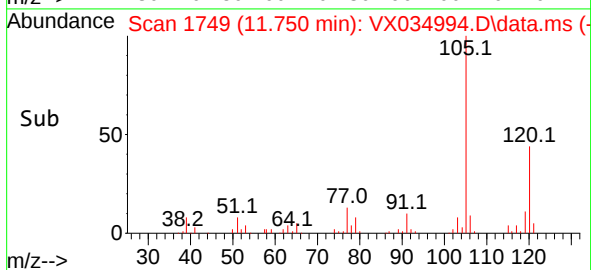
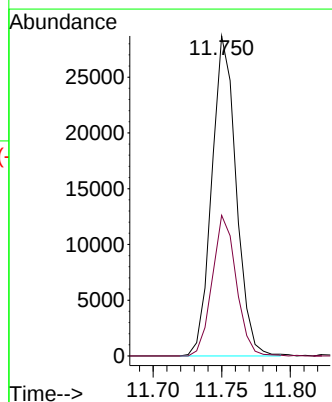
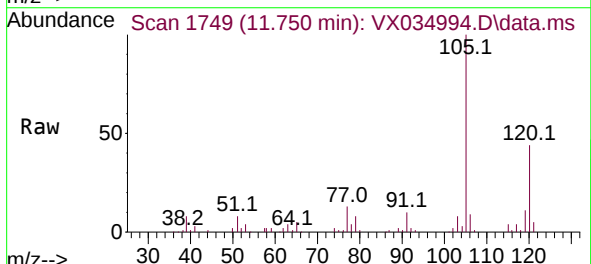
Manual Integrations  
APPROVED

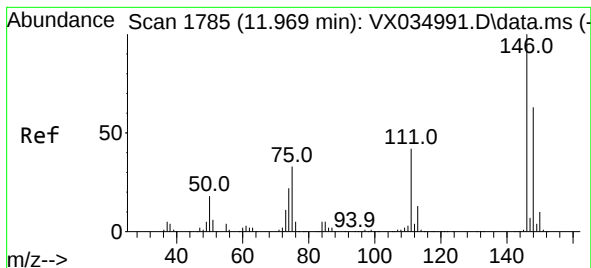
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#63  
1,2,4-Trimethylbenzene  
Concen: 2.600 ug/L  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Tgt Ion:105 Resp: 35458  
Ion Ratio Lower Upper  
105 100  
120 43.2 35.6 53.4





#64

1,3-Dichlorobenzene

Concen: 2.717 ug/L

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion:146 Resp: 2015

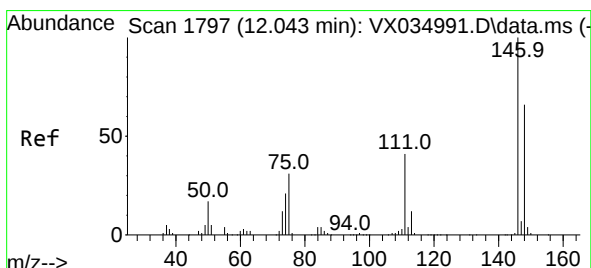
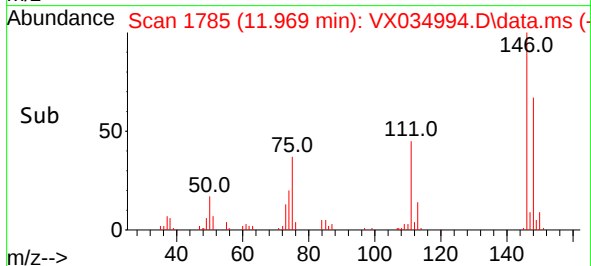
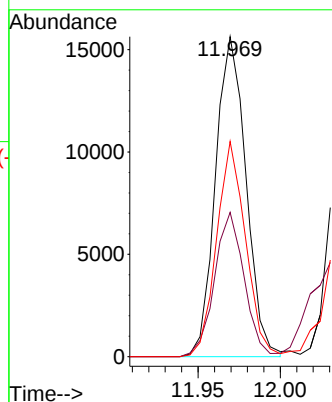
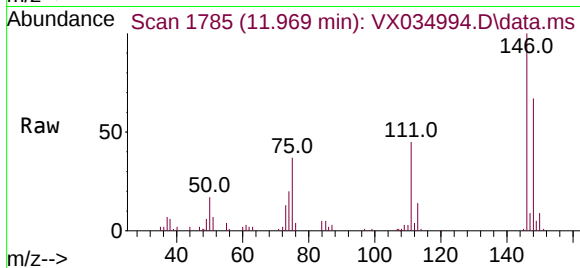
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 45.1  | 30.3  | 56.3  |
| 148 | 67.2  | 44.2  | 82.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/11/2023

Supervised By :Semsettin Yesilyurt 04/11/2023



#65

1,4-Dichlorobenzene

Concen: 2.780 ug/L

RT: 12.043 min Scan# 1797

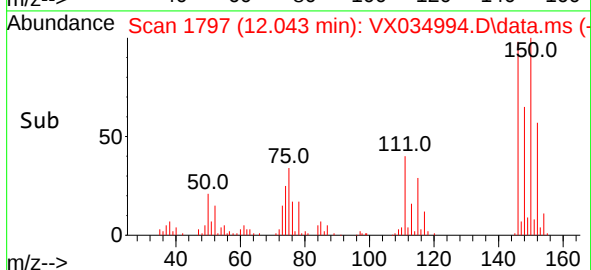
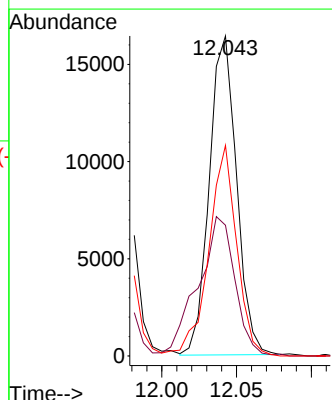
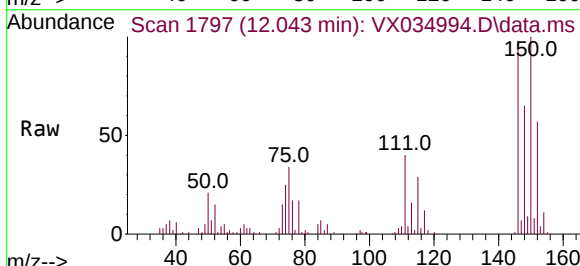
Delta R.T. -0.000 min

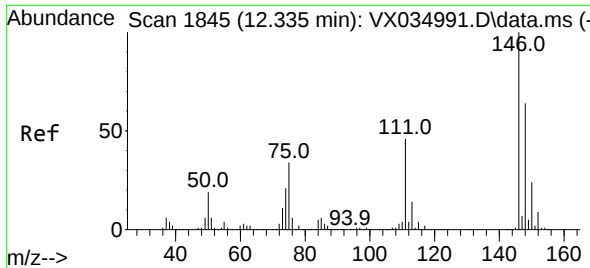
Lab File: VX034994.D

Acq: 10 Apr 2023 14:47

Tgt Ion:146 Resp: 20857

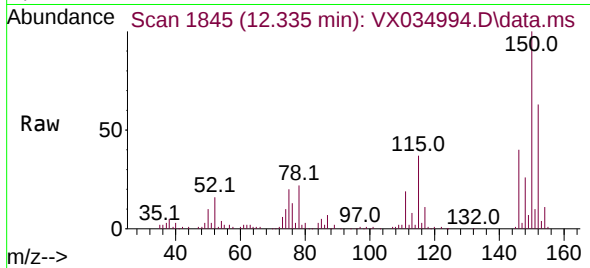
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 40.9  | 27.5  | 51.1  |
| 148 | 65.8  | 44.4  | 82.4  |





#67  
1,2-Dichlorobenzene  
Concen: 2.867 ug/L  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

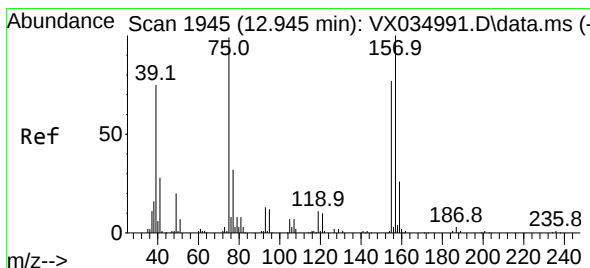
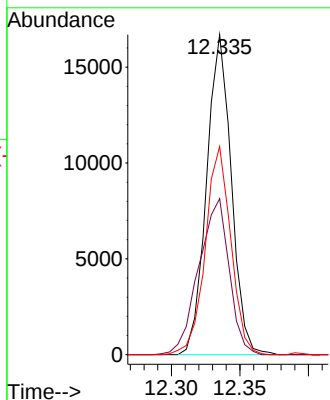
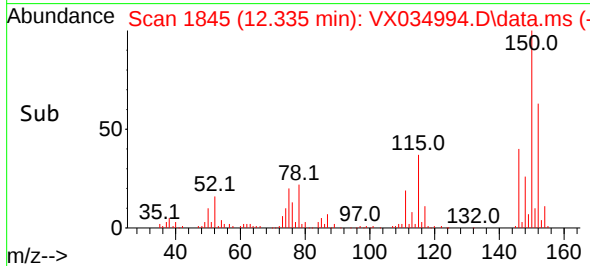
Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03



Tgt Ion:146 Resp: 20950  
Ion Ratio Lower Upper  
146 100  
111 48.7 34.4 51.6  
148 65.0 51.0 76.4

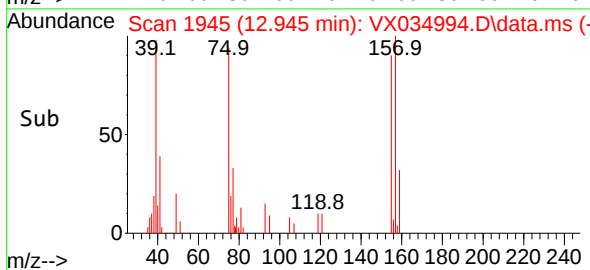
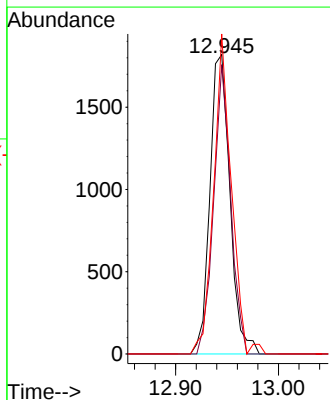
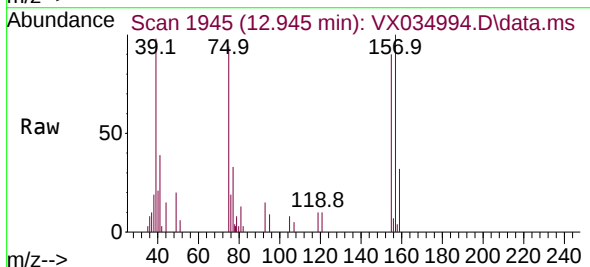
Manual Integrations  
APPROVED

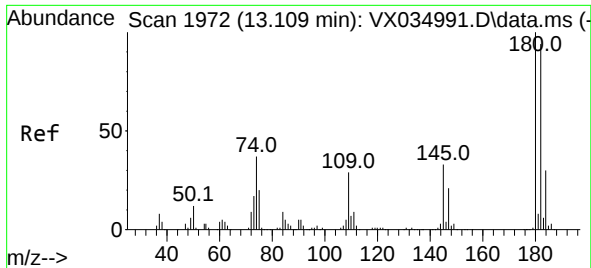
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#68  
1,2-Dibromo-3-chloropropane  
Concen: 2.197 ug/L  
RT: 12.945 min Scan# 1945  
Delta R.T. 0.006 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Tgt Ion: 75 Resp: 2459  
Ion Ratio Lower Upper  
75 100  
155 96.6 58.0 87.0#  
157 106.9 75.3 112.9





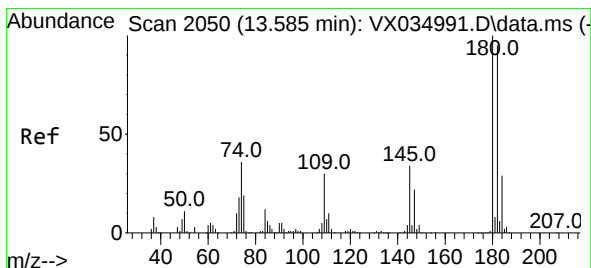
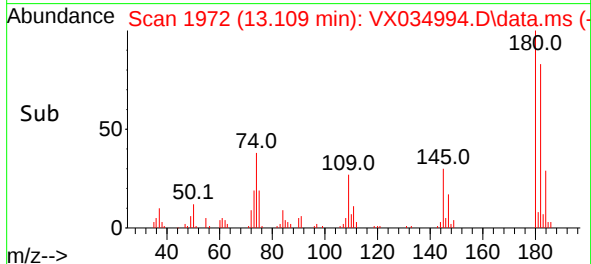
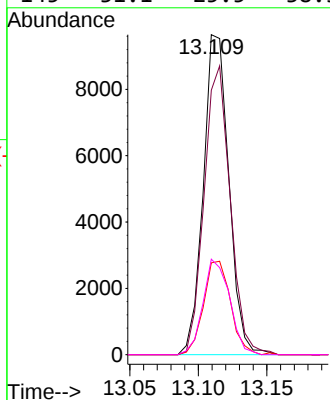
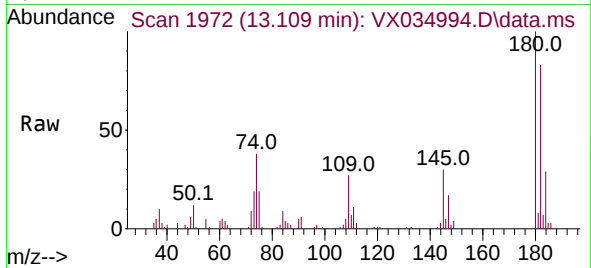
#69  
1,3,5-Trichlorobenzene  
Concen: 2.702 ug/L  
RT: 13.109 min Scan# 1972  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 91.9  | 76.8  | 115.2 |
| 184     | 30.8  | 23.8  | 35.8  |
| 145     | 31.1  | 25.5  | 38.3  |

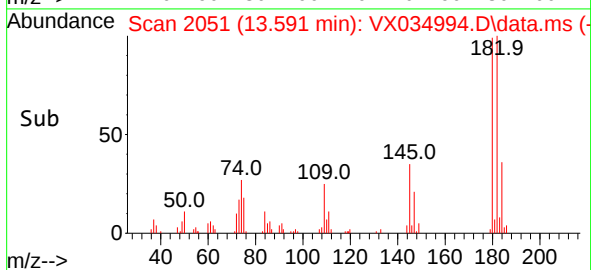
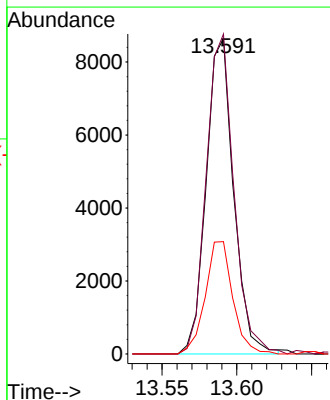
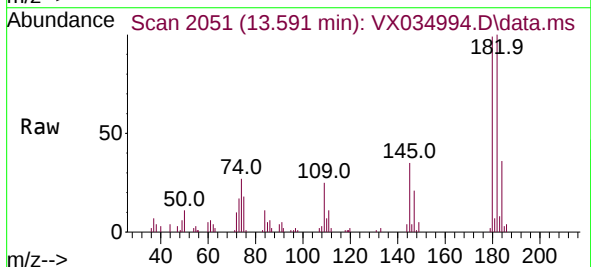
Manual Integrations  
APPROVED

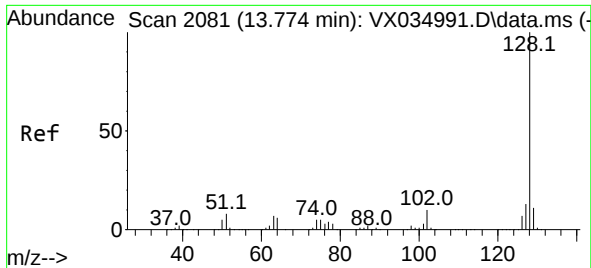
Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#70  
1,2,4-trichlorobenzene  
Concen: 2.550 ug/L  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.006 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

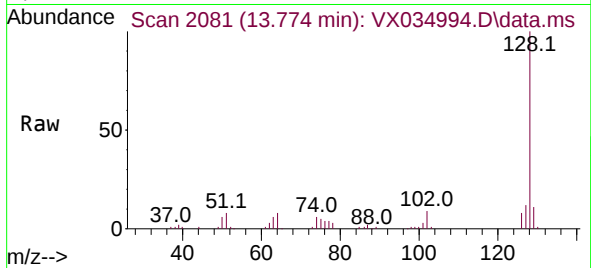
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 102.2 | 77.0  | 115.4 |
| 145     | 35.9  | 26.7  | 40.1  |





#71  
Naphthalene  
Concen: 2.445 ug/L  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47

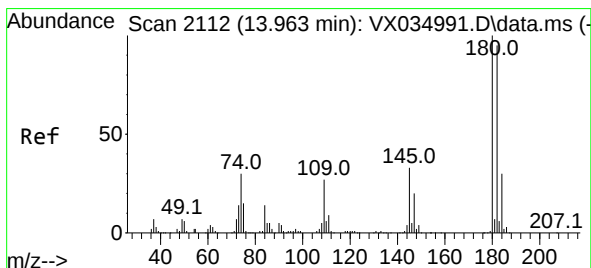
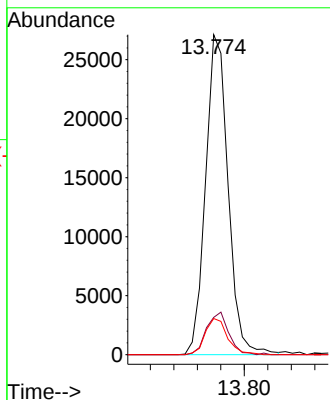
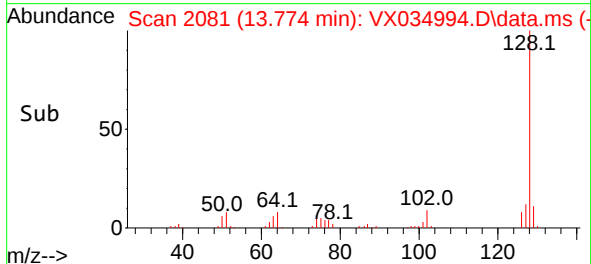
Instrument : MSVOA\_X  
ClientSampleId : MDL-WATER-QT2-2023-03



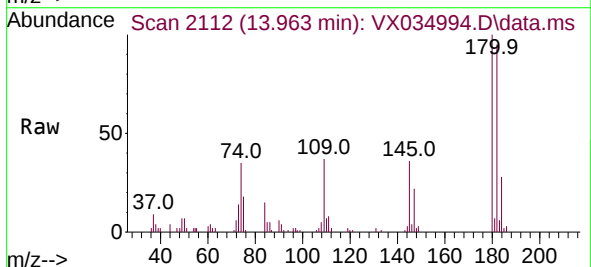
Tgt Ion:128 Resp: 3606  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.4  
129 11.3 8.9 13.3

Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/11/2023  
Supervised By :Semsettin Yesilyurt 04/11/2023



#72  
1,2,3-Trichlorobenzene  
Concen: 2.546 ug/L  
RT: 13.963 min Scan# 2112  
Delta R.T. -0.000 min  
Lab File: VX034994.D  
Acq: 10 Apr 2023 14:47



Tgt Ion:180 Resp: 11035  
Ion Ratio Lower Upper  
180 100  
182 97.6 76.6 114.8  
145 37.0 28.0 42.0

