

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101922\  
 Data File : VU051453.D  
 Acq On : 19 Oct 2022 12:53  
 Operator : JC/MD  
 Sample : N4955-09 0.4PPB  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT4-2022

Quant Time: Oct 20 07:39:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U101722DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Oct 20 07:37:57 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/25/2022

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.115  | 96   | 48356    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.632 | 95   | 13436    | 0.792 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 79.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.192 | 152  | 15993    | 0.844 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 84.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.385  | 85   | 6086m    | 0.360 | ug/l    |          |
| 3) Chloromethane             | 1.533  | 50   | 9851     | 0.370 | ug/l    | 92       |
| 4) Vinyl Chloride            | 1.604  | 62   | 8064     | 0.350 | ug/l    | 99       |
| 5) Bromomethane              | 1.855  | 94   | 5803     | 0.452 | ug/l    | 94       |
| 6) Chloroethane              | 1.928  | 64   | 4300     | 0.328 | ug/l    | 91       |
| 7) Trichlorofluoromethane    | 2.141  | 101  | 9301     | 0.361 | ug/l    | 97       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.584  | 101  | 5572     | 0.392 | ug/l    | 99       |
| 9) 1,1-Dichloroethene        | 2.578  | 96   | 5434     | 0.366 | ug/l    | 92       |
| 10) Iodomethane              | 2.723  | 142  | 6844     | 0.356 | ug/l    | 98       |
| 11) Allyl Chloride           | 2.925  | 41   | 9070     | 0.401 | ug/l    | 92       |
| 12) Acrylonitrile            | 3.317  | 53   | 3307     | 0.757 | ug/l    | 88       |
| 13) Acetone                  | 2.629  | 43   | 6714     | 2.135 | ug/l    | 100      |
| 14) Carbon Disulfide         | 2.790  | 76   | 19488    | 0.369 | ug/l    | 97       |
| 15) Methylene Chloride       | 3.047  | 84   | 15048    | 0.692 | ug/l    | 96       |
| 16) trans-1,2-Dichloroethene | 3.346  | 96   | 6494     | 0.382 | ug/l    | 96       |
| 17) 1,1-Dichloroethane       | 3.864  | 63   | 11360    | 0.371 | ug/l    | 95       |
| 18) 2-Butanone               | 4.729  | 43   | 6289     | 1.648 | ug/l    | 97       |
| 19) Cyclohexane              | 5.385  | 56   | 5859m    | 0.309 | ug/l    |          |
| 20) Methylcyclohexane        | 6.761  | 83   | 5402     | 0.287 | ug/l    | 87       |
| 21) 2,2-Dichloropropane      | 4.665  | 77   | 7873     | 0.369 | ug/l    | 93       |
| 22) cis-1,2-Dichloroethene   | 4.668  | 96   | 5577     | 0.346 | ug/l    | 97       |
| 23) Diethyl Ether            | 2.375  | 59   | 4500     | 0.347 | ug/l #  | 89       |
| 24) tert-Butyl Alcohol       | 3.205  | 59   | 5066     | 3.728 | ug/l #  | 84       |
| 25) Methyl tert-Butyl Ether  | 3.369  | 73   | 14307    | 0.371 | ug/l #  | 80       |
| 26) Bromochloromethane       | 4.973  | 128  | 2679     | 0.341 | ug/l    | 94       |
| 27) Chloroform               | 5.092  | 83   | 10998    | 0.355 | ug/l    | 97       |
| 28) 1,1,1-Trichloroethane    | 5.314  | 97   | 8599     | 0.348 | ug/l    | 96       |
| 29) 1,1-Dichloropropene      | 5.523  | 75   | 5893     | 0.311 | ug/l    | 98       |
| 30) Carbon Tetrachloride     | 5.520  | 117  | 7540     | 0.361 | ug/l    | 88       |
| 31) Isopropyl Ether          | 4.002  | 45   | 12361    | 0.342 | ug/l    | 89       |
| 32) Ethyl-t-butyl ether      | 4.510  | 59   | 10229    | 0.310 | ug/l    | 99       |
| 33) Tert-Amyl methyl ether   | 5.948  | 73   | 8343     | 0.287 | ug/l #  | 94       |
| 34) Propionitrile            | 4.797  | 54   | 2048     | 1.597 | ug/l #  | 74       |
| 35) Benzene                  | 5.774  | 78   | 20187    | 0.318 | ug/l    | 96       |
| 36) 1,2-Dichloroethane       | 5.796  | 62   | 6953     | 0.355 | ug/l #  | 91       |
| 37) Trichloroethene          | 6.546  | 130  | 5296     | 0.355 | ug/l    | 88       |
| 38) 1,2-Dichloropropane      | 6.793  | 63   | 5712     | 0.328 | ug/l    | 99       |
| 39) Methacrylonitrile        | 4.993  | 41   | 1164m    | 0.265 | ug/l    |          |
| 40) Methyl acrylate          | 4.883  | 55   | 1750m    | 0.250 | ug/l    |          |
| 41) Tetrahydrofuran          | 5.076  | 42   | 1569     | 0.682 | ug/l #  | 61       |
| 42) 1-Chlorobutane           | 5.456  | 56   | 7761     | 0.300 | ug/l    | 94       |
| 43) Dibromomethane           | 6.922  | 93   | 2882     | 0.318 | ug/l    | 95       |
| 44) Bromodichloromethane     | 7.108  | 83   | 7560     | 0.345 | ug/l #  | 91       |

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 ALS Vial : 8 Sample Multiplier: 1

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Quant Time: Oct 20 07:39:13 2022  
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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Oct 20 07:37:57 2022  
 Response via : Initial Calibration

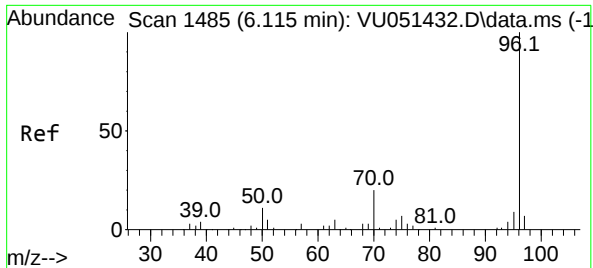
### Manual Integrations APPROVED

Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/25/2022

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.796  | 43   | 10855    | 1.260 | ug/l   | 97       |
| 46) t-1,4-Dichloro-2-butene   | 10.825 | 75   | 3272m    | 0.680 | ug/l   |          |
| 47) Methyl methacrylate       | 6.967  | 69   | 3413     | 0.493 | ug/l   | 93       |
| 48) Ethyl methacrylate        | 8.337  | 69   | 2671     | 0.230 | ug/l   | 89       |
| 49) Toluene                   | 7.970  | 92   | 9291     | 0.267 | ug/l   | 95       |
| 50) t-1,3-Dichloropropene     | 8.214  | 75   | 5384     | 0.306 | ug/l   | 98       |
| 51) cis-1,3-Dichloropropene   | 7.607  | 75   | 6723     | 0.324 | ug/l   | 99       |
| 52) 1,1,2-Trichloroethane     | 8.401  | 97   | 4272     | 0.331 | ug/l   | 95       |
| 53) 1,3-Dichloropropane       | 8.575  | 76   | 6094     | 0.293 | ug/l   | 96       |
| 54) 2-Hexanone                | 8.690  | 43   | 7885     | 1.331 | ug/l   | 86       |
| 55) Dibromochloromethane      | 8.809  | 129  | 4621     | 0.329 | ug/l   | 98       |
| 56) 1,2-Dibromoethane         | 8.922  | 107  | 3783     | 0.333 | ug/l   | 99       |
| 58) Tetrachloroethene         | 8.552  | 164  | 4136     | 0.318 | ug/l   | 96       |
| 59) Chlorobenzene             | 9.446  | 112  | 11520    | 0.301 | ug/l   | 97       |
| 60) 1,1,1,2-Tetrachloroethane | 9.533  | 131  | 5311     | 0.362 | ug/l   | 95       |
| 61) Pentachloroethane         | 11.430 | 117  | 3945     | 0.302 | ug/l   | 90       |
| 62) Hexachloroethane          | 12.475 | 117  | 4255     | 0.343 | ug/l   | 90       |
| 63) Ethyl Benzene             | 9.568  | 91   | 14347    | 0.247 | ug/l   | 98       |
| 64) m/p-Xylenes               | 9.690  | 106  | 9616     | 0.416 | ug/l   | 94       |
| 65) o-Xylene                  | 10.099 | 106  | 5229     | 0.232 | ug/l   | 99       |
| 66) Styrene                   | 10.115 | 104  | 8308     | 0.223 | ug/l   | 96       |
| 67) Bromoform                 | 10.285 | 173  | 2472     | 0.313 | ug/l   | 95       |
| 69) Isopropylbenzene          | 10.484 | 105  | 13079    | 0.236 | ug/l   | 98       |
| 70) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 6109     | 0.350 | ug/l   | 95       |
| 71) 1,2,3-Trichloropropane    | 10.825 | 75   | 4317m    | 0.332 | ug/l   |          |
| 72) Bromobenzene              | 10.783 | 156  | 4391     | 0.289 | ug/l   | 98       |
| 73) n-propylbenzene           | 10.906 | 120  | 3353     | 0.215 | ug/l   | 95       |
| 74) 2-Chlorotoluene           | 10.986 | 126  | 3357     | 0.227 | ug/l   | 84       |
| 75) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 10335    | 0.206 | ug/l   | 99       |
| 76) 4-Chlorotoluene           | 11.095 | 126  | 3206     | 0.212 | ug/l   | 96       |
| 77) tert-Butylbenzene         | 11.417 | 119  | 11210    | 0.229 | ug/l   | 96       |
| 79) sec-Butylbenzene          | 11.642 | 105  | 14318    | 0.221 | ug/l   | 96       |
| 80) Nitrobenzene              | 13.217 | 77   | 1303     | 1.506 | ug/l # | 73       |
| 81) p-Isopropyltoluene        | 11.793 | 119  | 10464    | 0.201 | ug/l   | 94       |
| 82) 1,3-Dichlorobenzene       | 11.748 | 146  | 8736     | 0.267 | ug/l   | 94       |
| 83) 1,4-Dichlorobenzene       | 11.838 | 146  | 8198     | 0.256 | ug/l   | 94       |
| 85) 1,2-Dichlorobenzene       | 12.211 | 146  | 8177     | 0.254 | ug/l   | 95       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 861      | 0.315 | ug/l   | 98       |
| 87) 1,2,4-Trichlorobenzene    | 13.838 | 180  | 4385     | 0.251 | ug/l   | 95       |
| 88) Hexachlorobutadiene       | 14.018 | 225  | 3816     | 0.335 | ug/l   | 96       |
| 89) Naphthalene               | 14.089 | 128  | 7718     | 0.211 | ug/l # | 96       |
| 90) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 4240     | 0.222 | ug/l   | 96       |

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





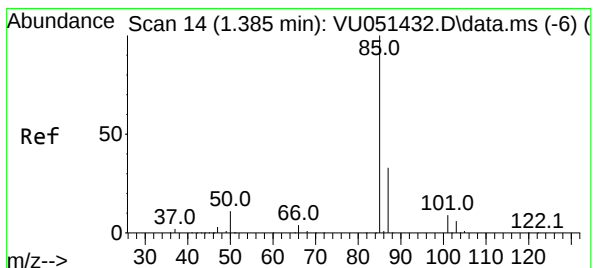
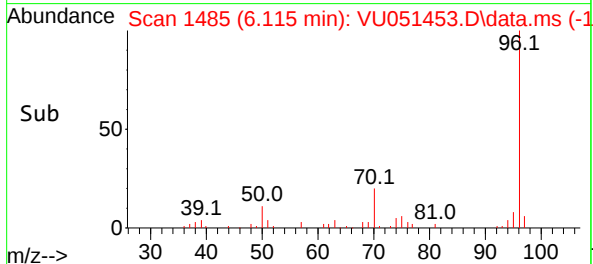
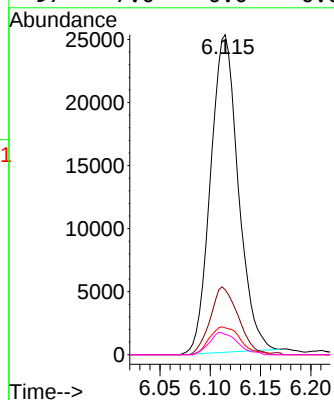
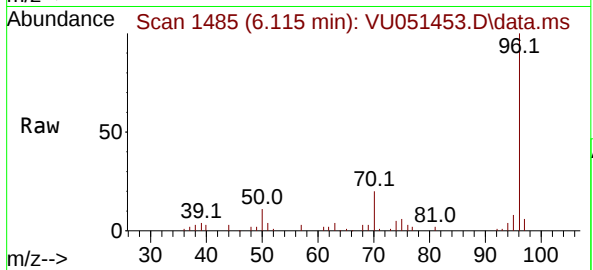
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Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.115 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022

Tgt Ion: 96 Resp: 48350  
Ion Ratio Lower Upper  
96 100  
70 21.0 16.7 25.1  
95 9.7 7.5 11.3  
97 7.0 0.0 0.0#

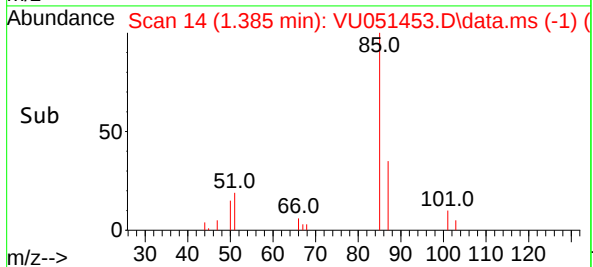
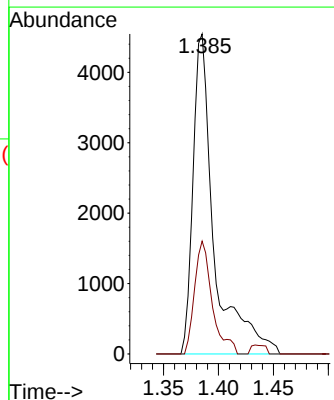
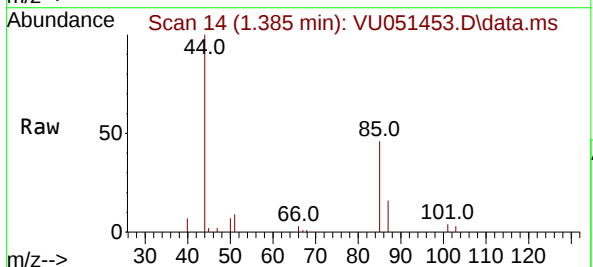
Manual Integrations  
APPROVED

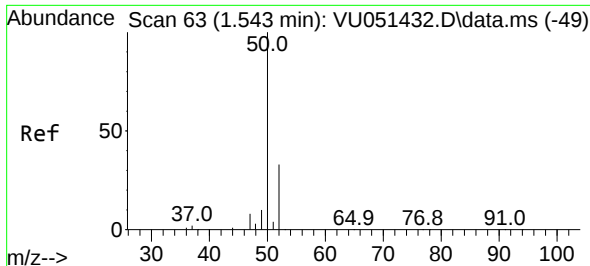
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#2  
Dichlorodifluoromethane  
Concen: 0.360 ug/l m  
RT: 1.385 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

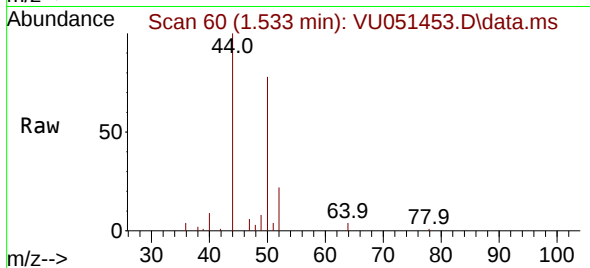
Tgt Ion: 85 Resp: 6086  
Ion Ratio Lower Upper  
85 100  
87 35.2 16.4 49.4





#3  
Chloromethane  
Concen: 0.370 ug/l  
RT: 1.533 min Scan# 60  
Delta R.T. -0.010 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

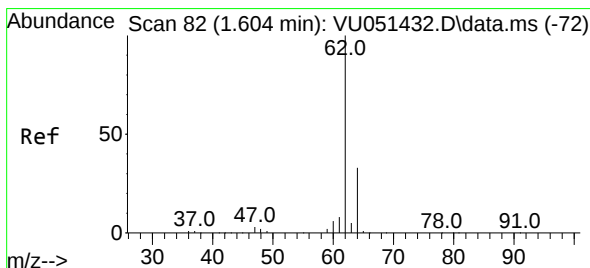
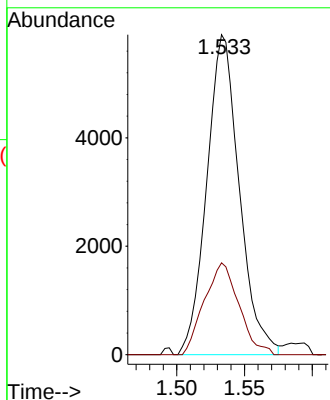
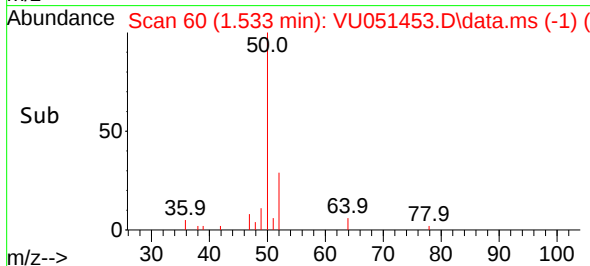
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 50 Resp: 985  
Ion Ratio Lower Upper  
50 100  
52 28.7 26.7 40.1

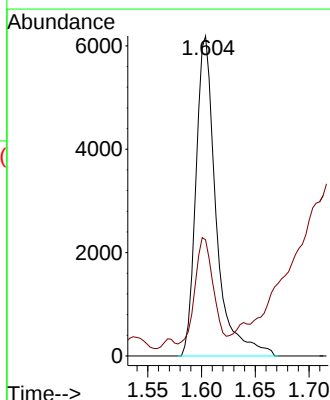
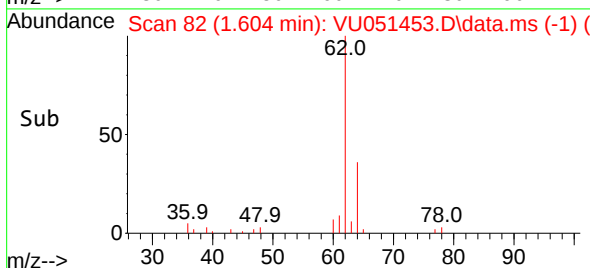
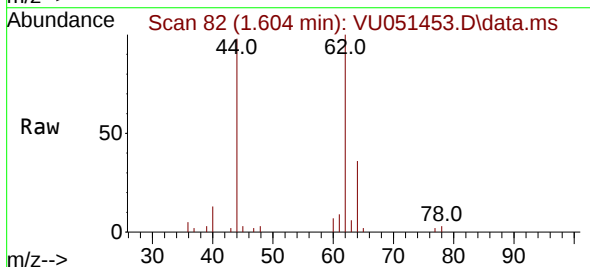
Manual Integrations  
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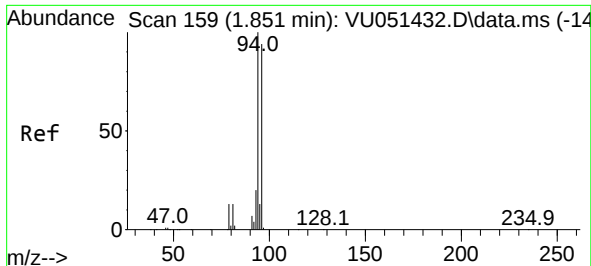
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#4  
Vinyl Chloride  
Concen: 0.350 ug/l  
RT: 1.604 min Scan# 82  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

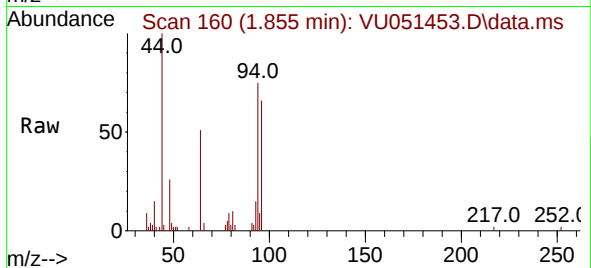
Tgt Ion: 62 Resp: 8064  
Ion Ratio Lower Upper  
62 100  
64 32.6 26.7 40.1





#5  
Bromomethane  
Concen: 0.452 ug/l  
RT: 1.855 min Scan# 10  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

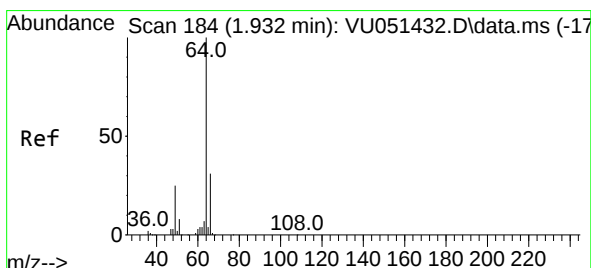
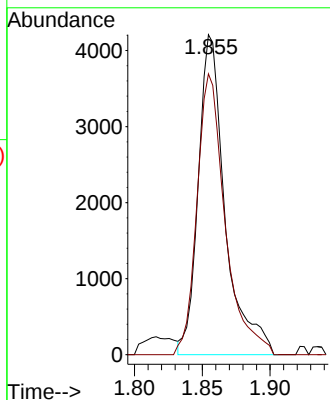
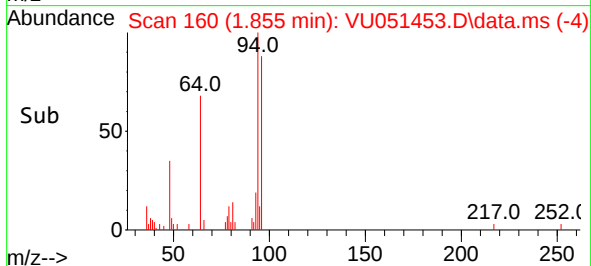
Instrument :  
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MDL-WATER-03-QT4-2022



Tgt Ion: 94 Resp: 580  
Ion Ratio Lower Upper  
94 100  
96 87.8 74.8 112.2

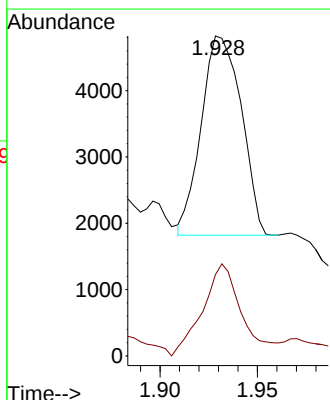
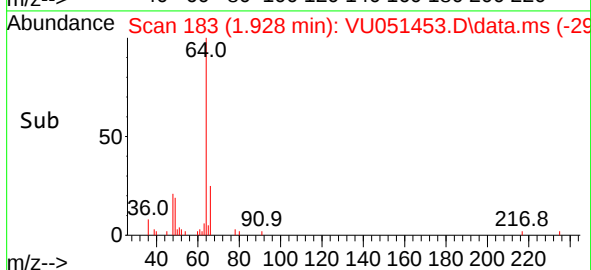
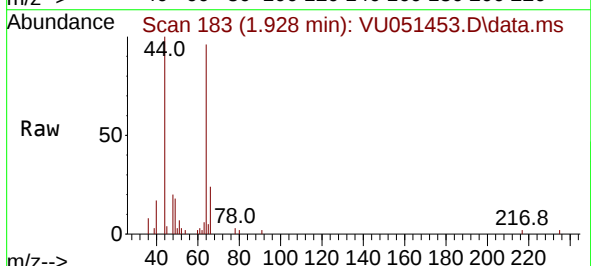
Manual Integrations  
APPROVED

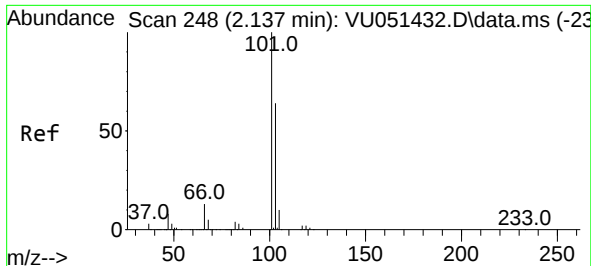
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#6  
Chloroethane  
Concen: 0.328 ug/l  
RT: 1.928 min Scan# 183  
Delta R.T. -0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

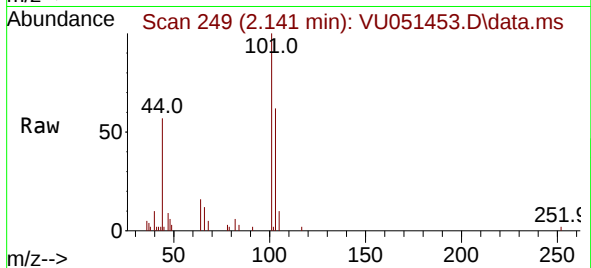
Tgt Ion: 64 Resp: 4300  
Ion Ratio Lower Upper  
64 100  
66 36.4 25.2 37.8





#7  
 Trichlorofluoromethane  
 Concen: 0.361 ug/l  
 RT: 2.141 min Scan# 248  
 Delta R.T. 0.003 min  
 Lab File: VU051453.D  
 Acq: 19 Oct 2022 12:53

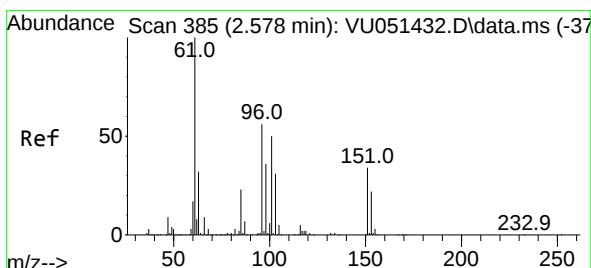
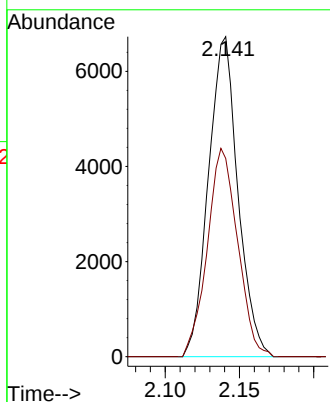
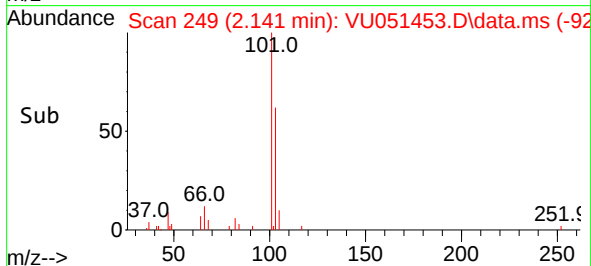
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 MDL-WATER-03-QT4-2022



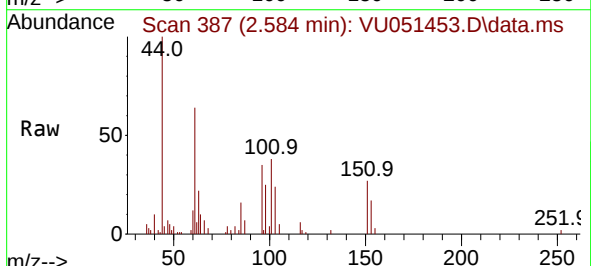
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 Ion Ratio Lower Upper  
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 103 62.0 51.4 77.2

Manual Integrations  
 APPROVED

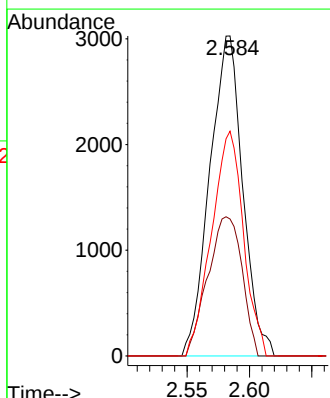
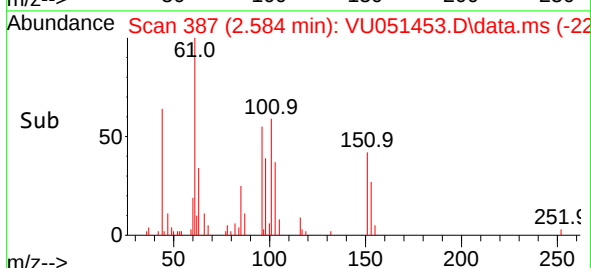
Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/25/2022

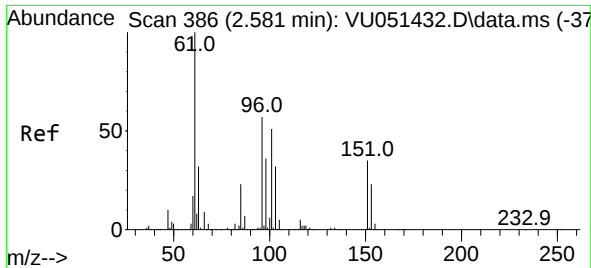


#8  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.392 ug/l  
 RT: 2.584 min Scan# 387  
 Delta R.T. 0.006 min  
 Lab File: VU051453.D  
 Acq: 19 Oct 2022 12:53



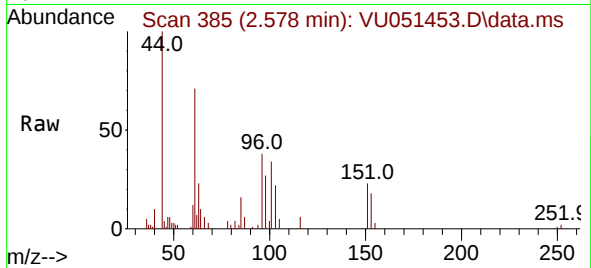
Tgt Ion:101 Resp: 5572  
 Ion Ratio Lower Upper  
 101 100  
 85 45.1 36.6 54.8  
 151 68.0 54.6 81.8





#9  
 1,1-Dichloroethene  
 Concen: 0.366 ug/l  
 RT: 2.578 min Scan# 386  
 Delta R.T. -0.003 min  
 Lab File: VU051453.D  
 Acq: 19 Oct 2022 12:53

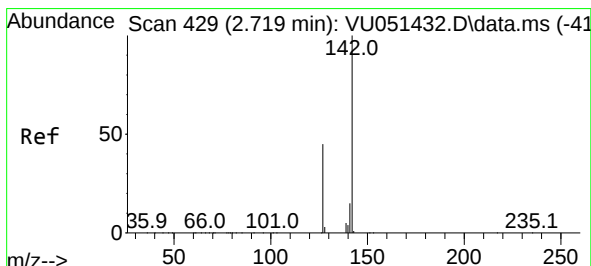
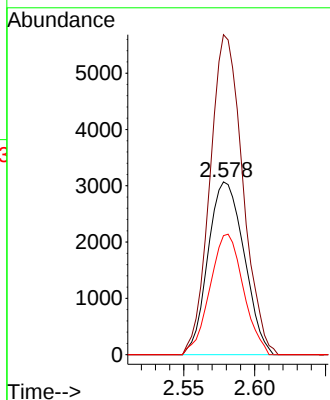
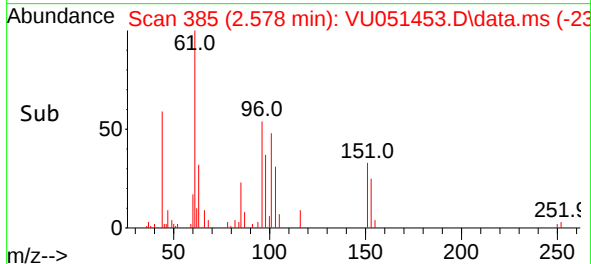
Instrument : MSVOA\_U  
 ClientSampleId : MDL-WATER-03-QT4-2022



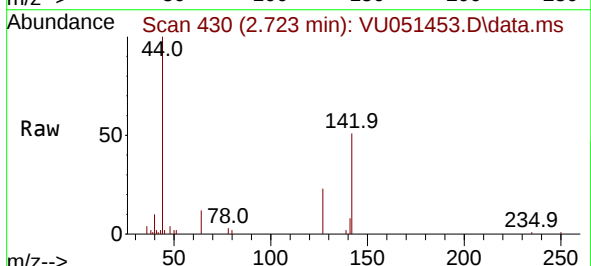
Tgt Ion: 96 Resp: 5434  
 Ion Ratio Lower Upper  
 96 100  
 61 185.2 0.0 522.3  
 98 68.9 0.0 126.6

Manual Integrations  
 APPROVED

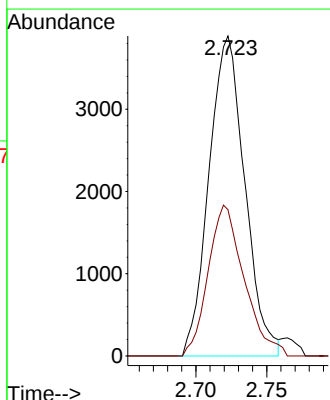
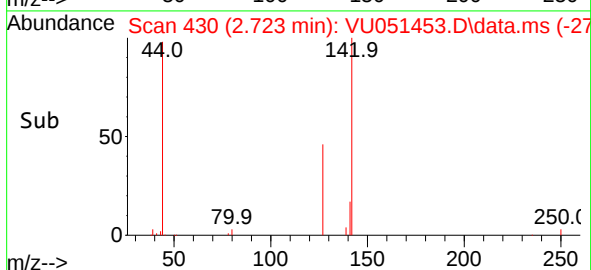
Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/25/2022

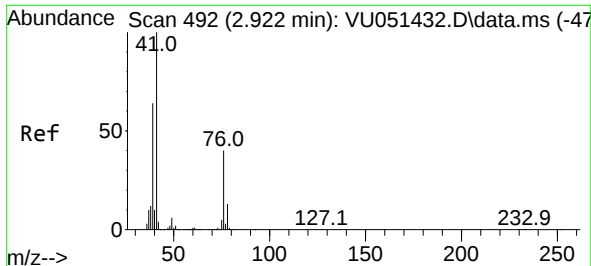


#10  
 Iodomethane  
 Concen: 0.356 ug/l  
 RT: 2.723 min Scan# 430  
 Delta R.T. 0.004 min  
 Lab File: VU051453.D  
 Acq: 19 Oct 2022 12:53



Tgt Ion:142 Resp: 6844  
 Ion Ratio Lower Upper  
 142 100  
 127 47.3 37.0 55.4





#11

Allyl Chloride

Concen: 0.401 ug/l

RT: 2.925 min Scan# 492

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 41 Resp: 9070

Ion Ratio Lower Upper

41 100

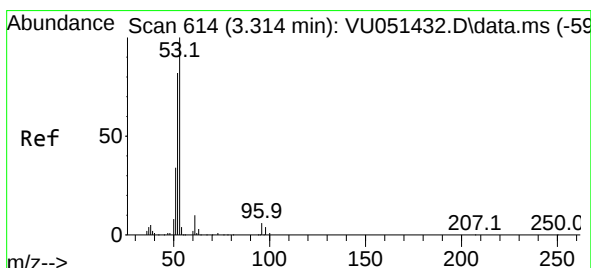
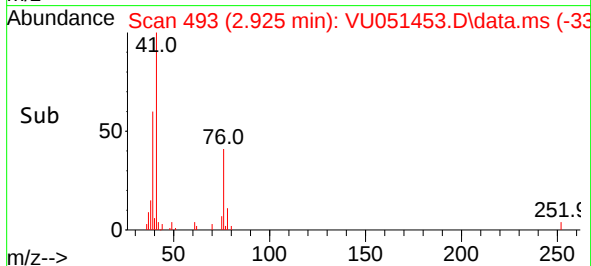
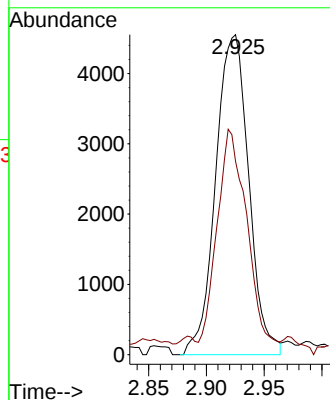
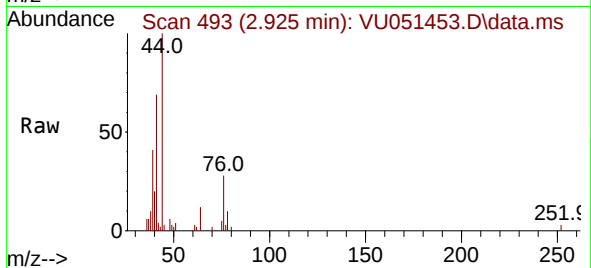
39 57.7 51.4 77.0

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#12

Acrylonitrile

Concen: 0.757 ug/l

RT: 3.317 min Scan# 615

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

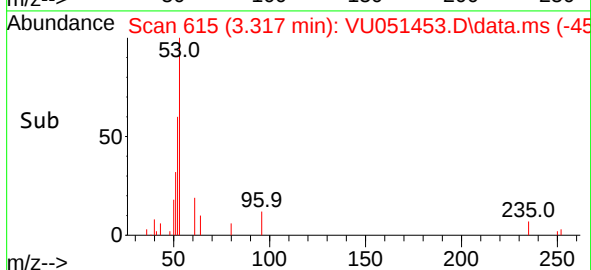
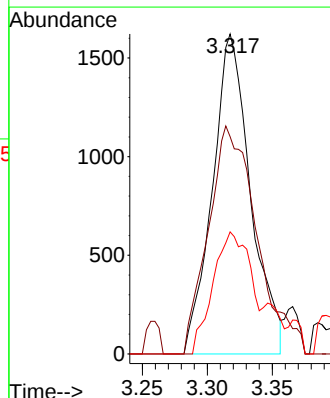
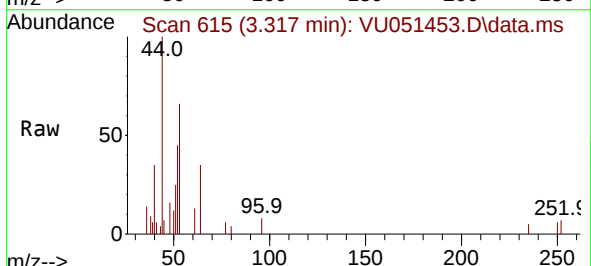
Tgt Ion: 53 Resp: 3307

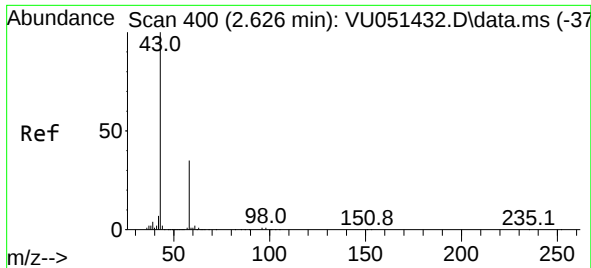
Ion Ratio Lower Upper

53 100

52 90.7 63.9 95.9

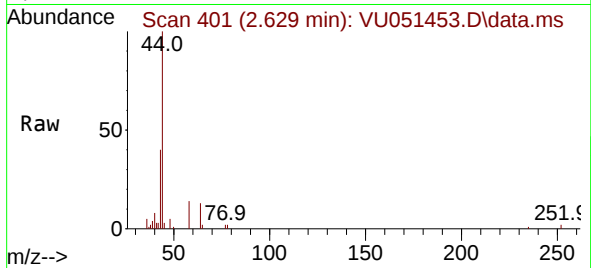
51 38.8 25.9 38.9





#13  
Acetone  
Concen: 2.135 ug/l  
RT: 2.629 min Scan# 400  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

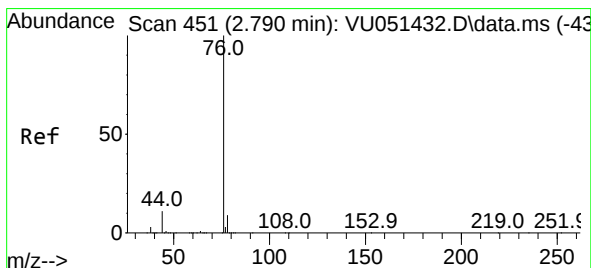
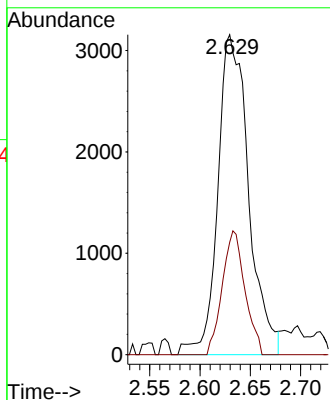
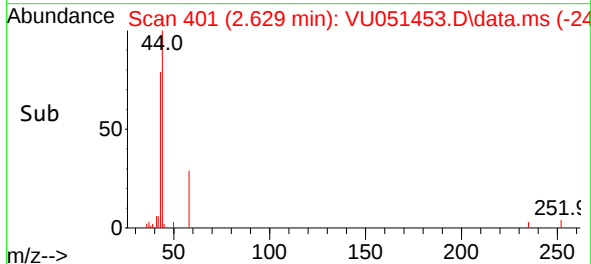
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 43 Resp: 6714  
Ion Ratio Lower Upper  
43 100  
58 35.2 27.9 41.9

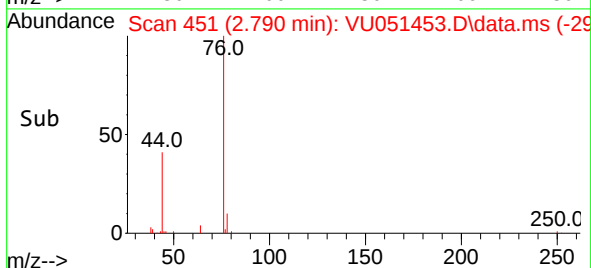
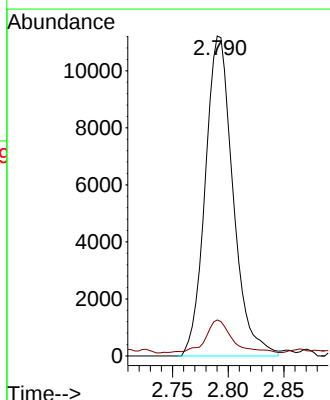
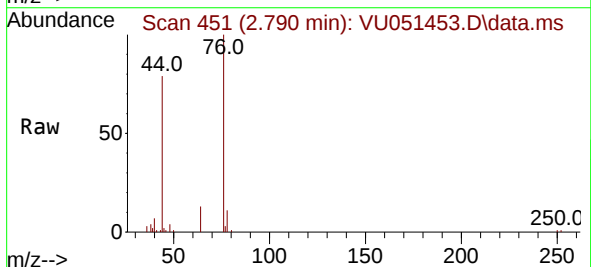
Manual Integrations  
APPROVED

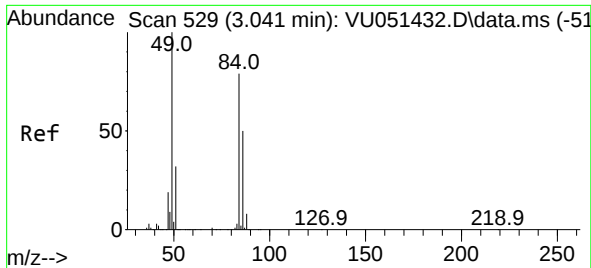
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#14  
Carbon Disulfide  
Concen: 0.369 ug/l  
RT: 2.790 min Scan# 451  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

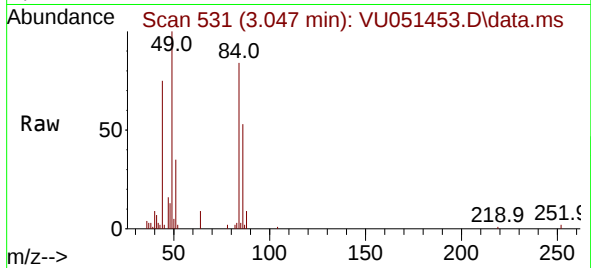
Tgt Ion: 76 Resp: 19488  
Ion Ratio Lower Upper  
76 100  
78 10.1 7.2 10.8





#15  
Methylene Chloride  
Concen: 0.692 ug/l  
RT: 3.047 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

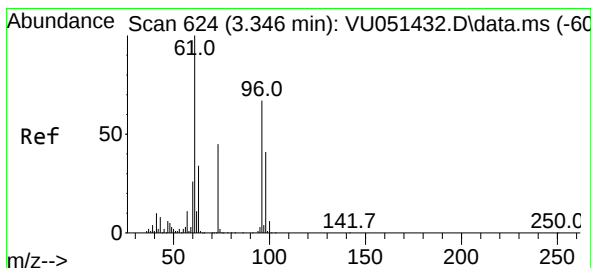
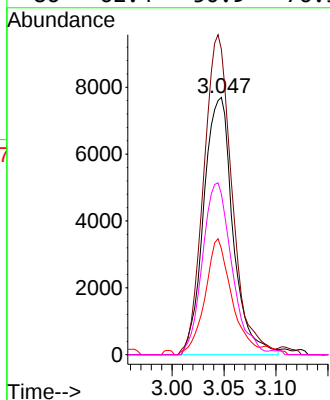
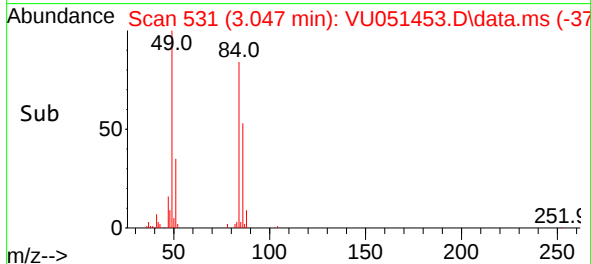
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 84 Resp: 1504  
Ion Ratio Lower Upper  
84 100  
49 118.7 101.1 151.7  
51 41.2 0.0 80.2  
86 62.4 50.9 76.3

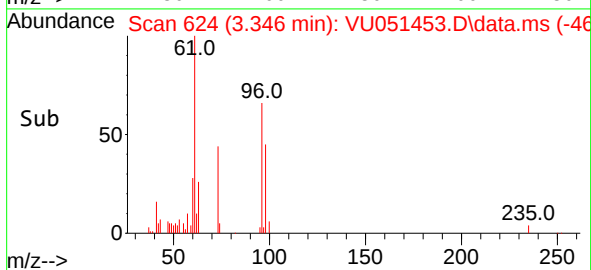
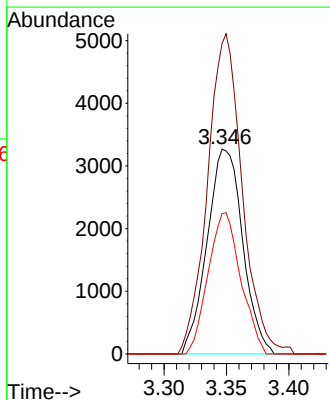
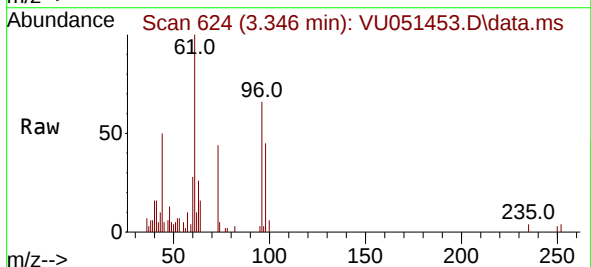
Manual Integrations  
APPROVED

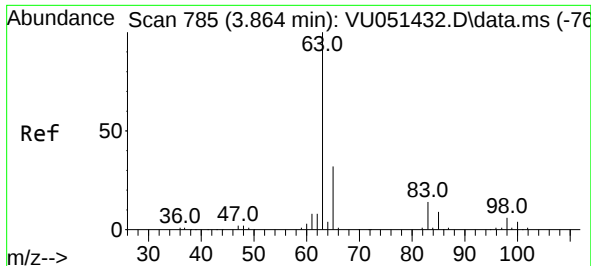
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#16  
trans-1,2-Dichloroethene  
Concen: 0.382 ug/l  
RT: 3.346 min Scan# 624  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Tgt Ion: 96 Resp: 6494  
Ion Ratio Lower Upper  
96 100  
61 151.6 119.9 179.9  
98 68.6 49.5 74.3





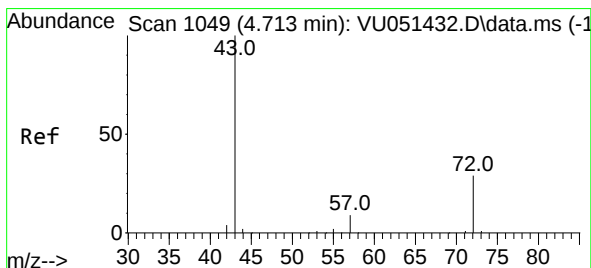
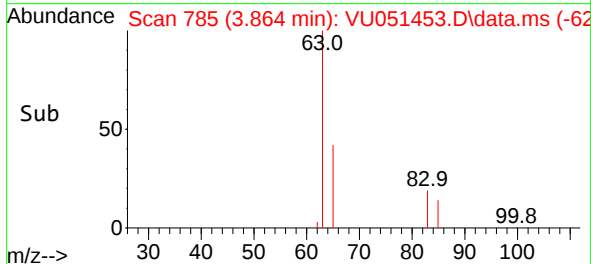
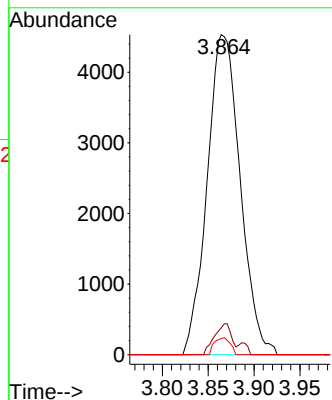
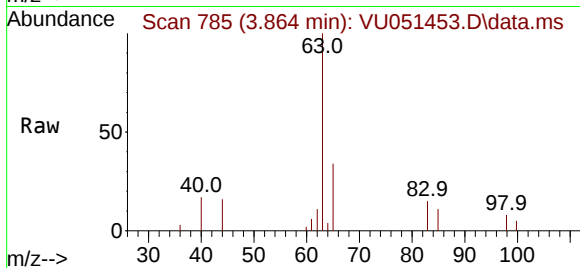
#17  
1,1-Dichloroethane  
Concen: 0.371 ug/l  
RT: 3.864 min Scan# 785  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022

Tgt Ion: 63 Resp: 11360  
Ion Ratio Lower Upper  
63 100  
98 8.3 3.1 9.3  
100 5.1 2.1 6.3

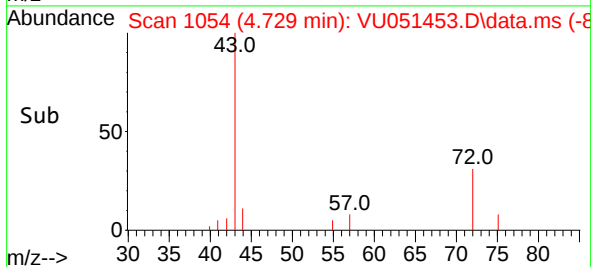
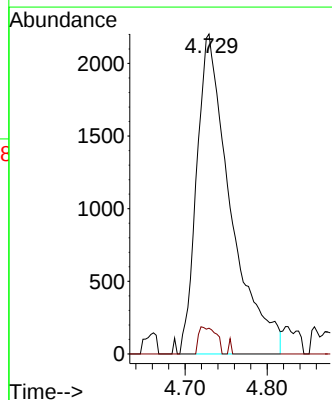
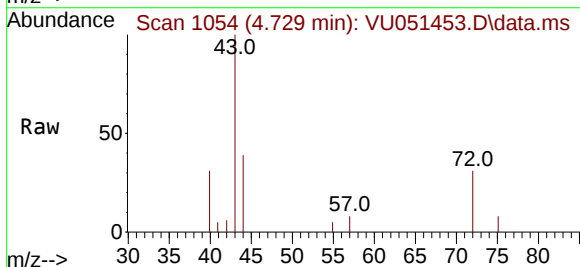
Manual Integrations  
APPROVED

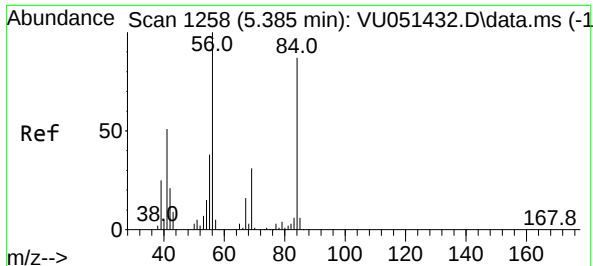
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#18  
2-Butanone  
Concen: 1.648 ug/l  
RT: 4.729 min Scan# 1054  
Delta R.T. 0.016 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Tgt Ion: 43 Resp: 6289  
Ion Ratio Lower Upper  
43 100  
57 8.0 0.0 18.2





#19

Cyclohexane

Concen: 0.309 ug/l m

RT: 5.385 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VU051453.D

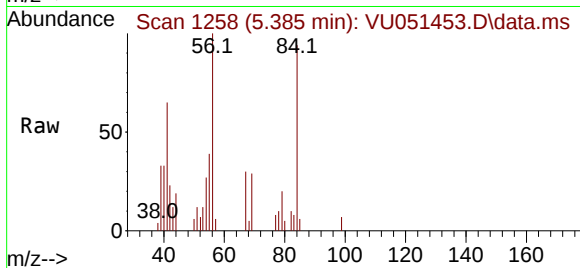
Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022



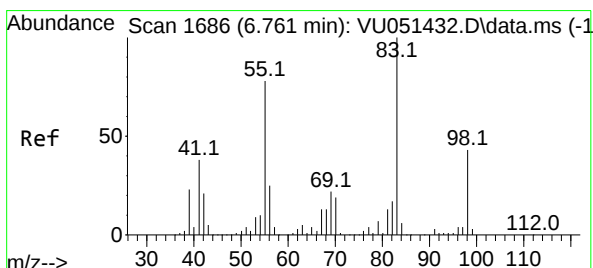
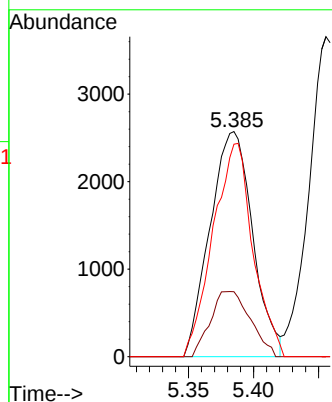
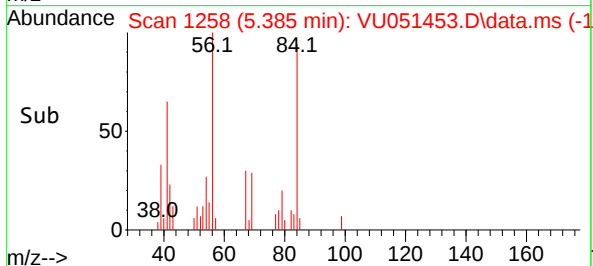
| Tgt Ion:  | 56   | Resp: | 585   |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 56        | 100  |       |       |
| 69        | 27.0 | 25.0  | 37.4  |
| 84        | 88.6 | 68.5  | 102.7 |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#20

Methylcyclohexane

Concen: 0.287 ug/l

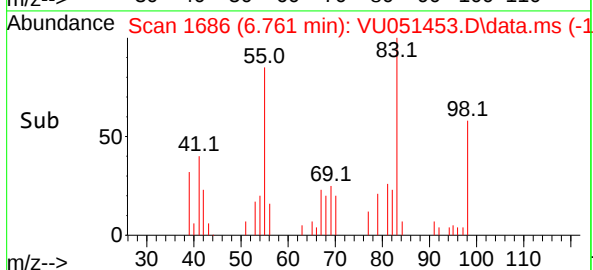
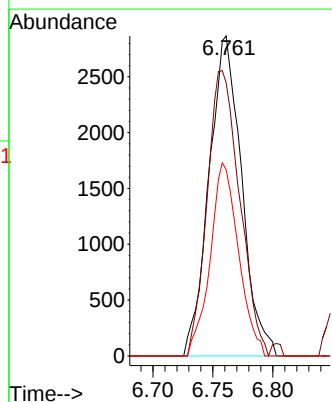
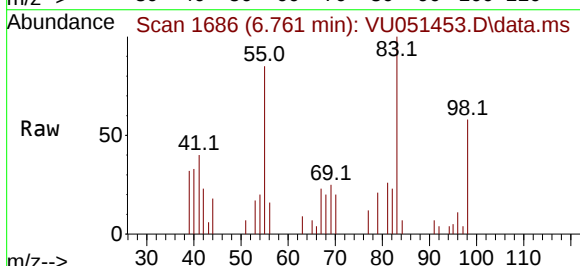
RT: 6.761 min Scan# 1686

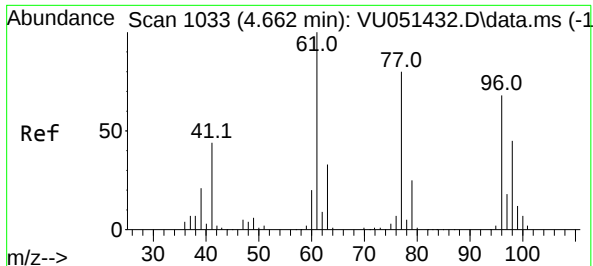
Delta R.T. 0.000 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

| Tgt Ion:  | 83   | Resp: | 5402  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 83        | 100  |       |       |
| 55        | 89.1 | 62.4  | 93.6  |
| 98        | 52.6 | 35.5  | 53.3  |





#21

2,2-Dichloropropane

Concen: 0.369 ug/l

RT: 4.665 min Scan# 1034

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 77 Resp: 787

Ion Ratio Lower Upper

77 100

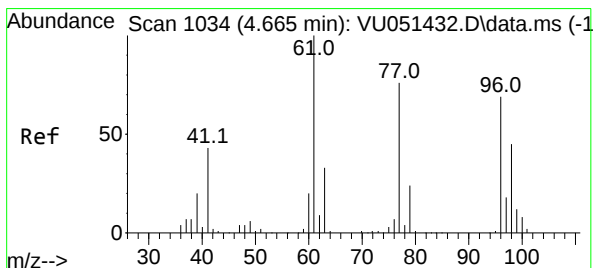
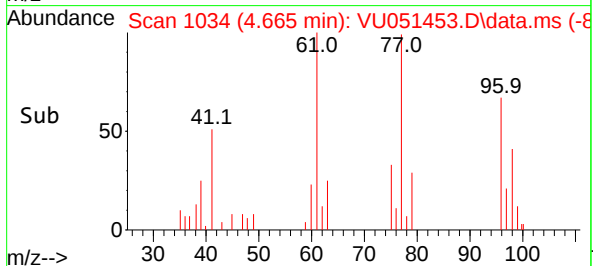
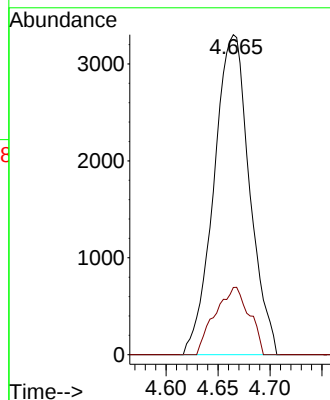
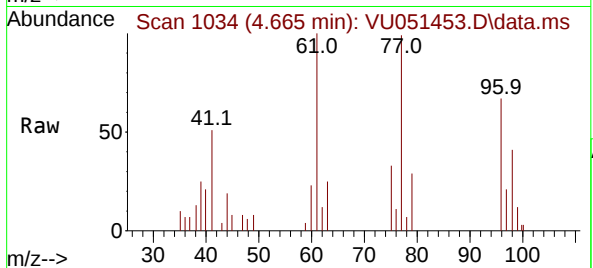
97 20.2 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#22

cis-1,2-Dichloroethene

Concen: 0.346 ug/l

RT: 4.668 min Scan# 1035

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

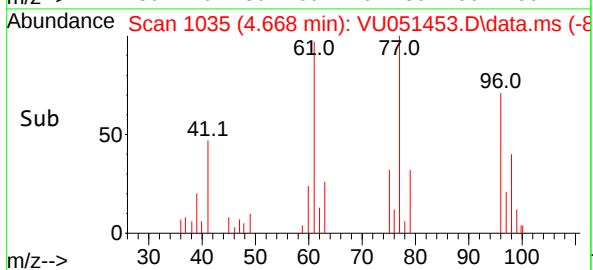
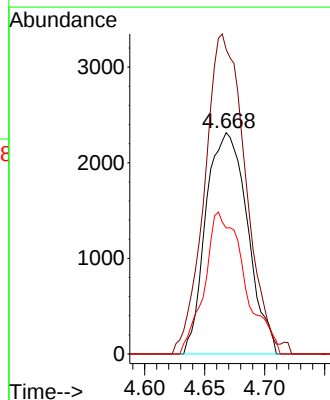
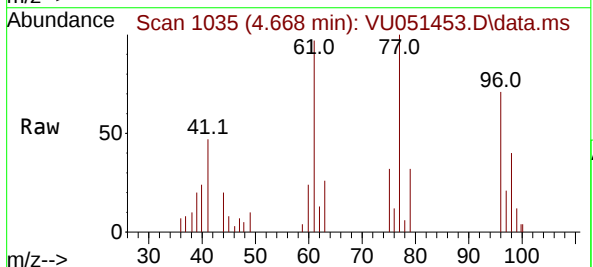
Tgt Ion: 96 Resp: 5577

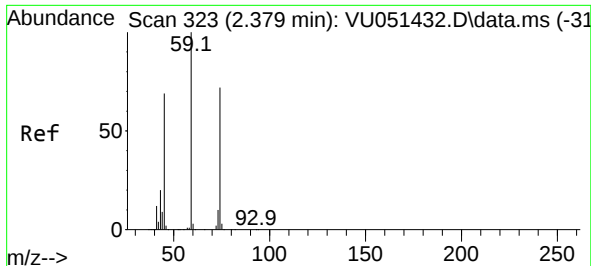
Ion Ratio Lower Upper

96 100

61 142.4 0.0 362.8

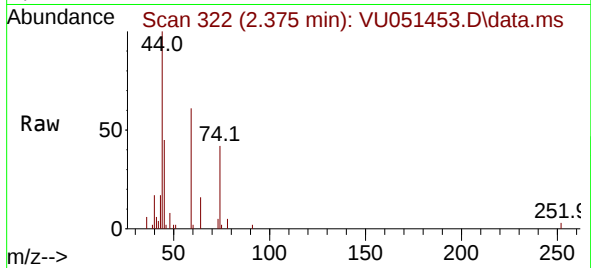
98 62.0 32.5 97.5





#23  
Diethyl Ether  
Concen: 0.347 ug/l  
RT: 2.375 min Scan# 31  
Delta R.T. -0.004 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

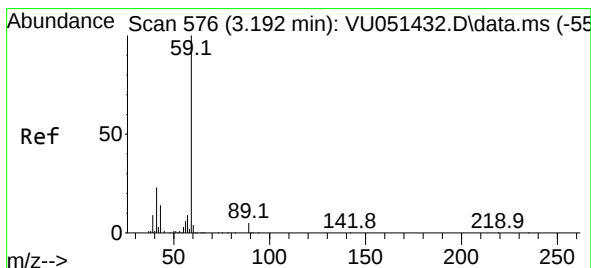
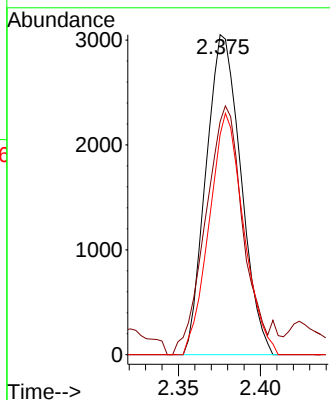
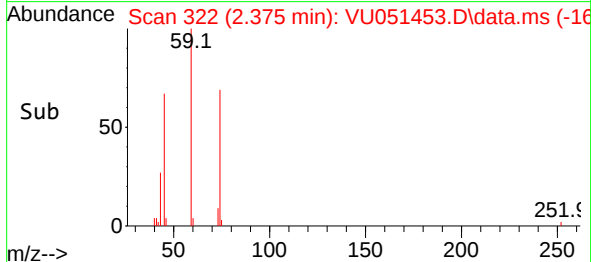
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



Tgt Ion: 59 Resp: 4500  
Ion Ratio Lower Upper  
59 100  
45 85.9 55.7 83.5  
74 74.6 58.2 87.4

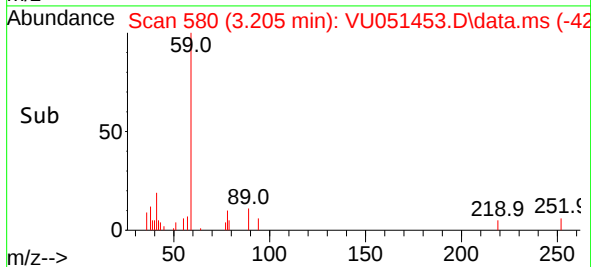
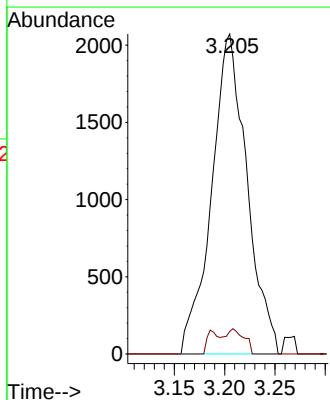
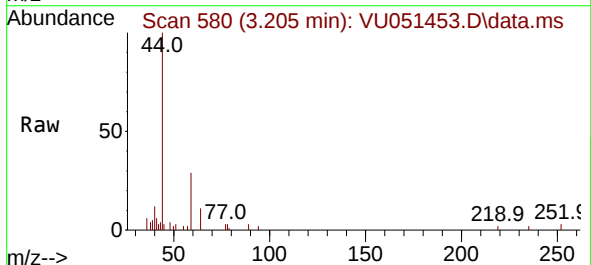
Manual Integrations  
APPROVED

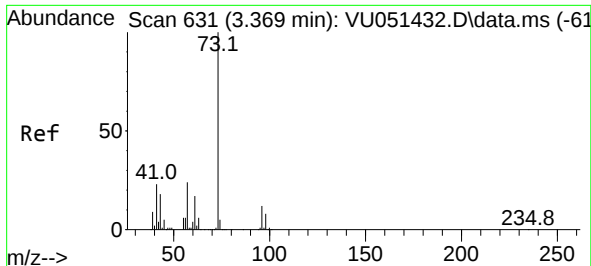
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#24  
tert-Butyl Alcohol  
Concen: 3.728 ug/l  
RT: 3.205 min Scan# 580  
Delta R.T. 0.013 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

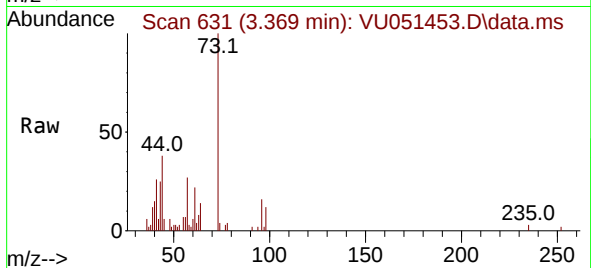
Tgt Ion: 59 Resp: 5066  
Ion Ratio Lower Upper  
59 100  
57 3.8 7.8 11.8#





#25  
Methyl tert-Butyl Ether  
Concen: 0.371 ug/l  
RT: 3.369 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

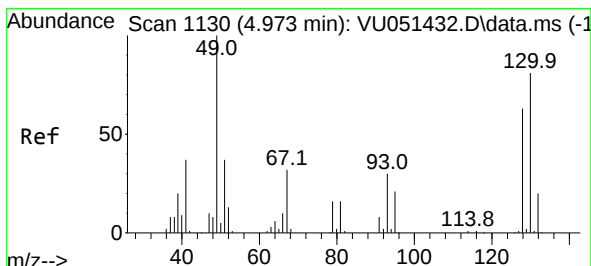
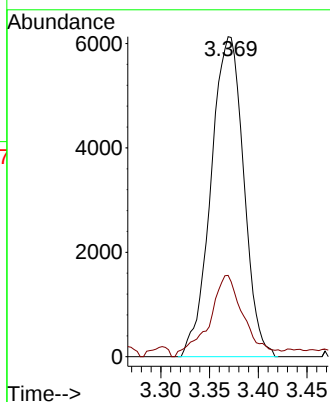
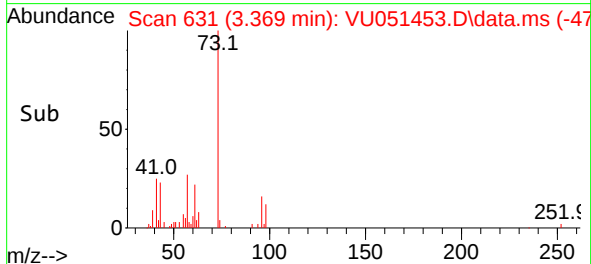
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 73 Resp: 1430  
Ion Ratio Lower Upper  
73 100  
43 26.7 14.2 21.4

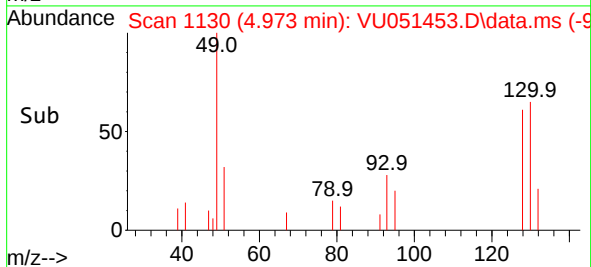
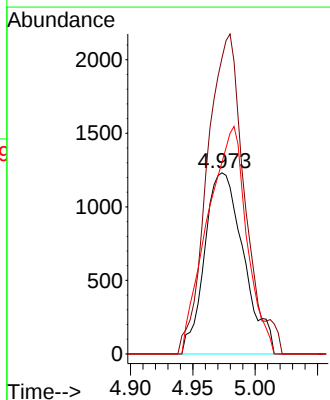
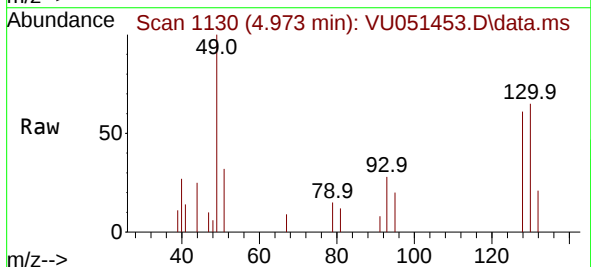
Manual Integrations  
APPROVED

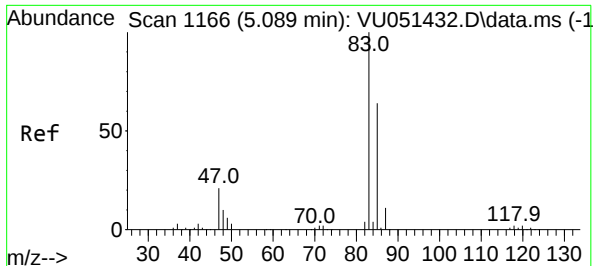
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#26  
Bromochloromethane  
Concen: 0.341 ug/l  
RT: 4.973 min Scan# 1130  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Tgt Ion:128 Resp: 2679  
Ion Ratio Lower Upper  
128 100  
49 169.4 0.0 320.4  
130 126.3 105.0 157.6





#27

Chloroform

Concen: 0.355 ug/l

RT: 5.092 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 83 Resp: 10998

Ion Ratio Lower Upper

83 100

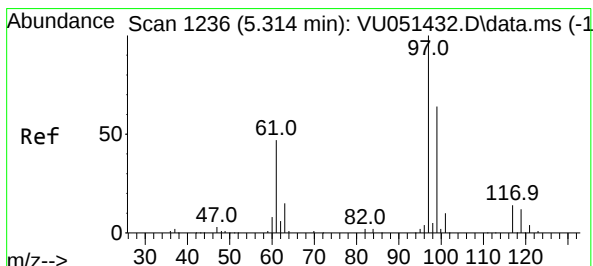
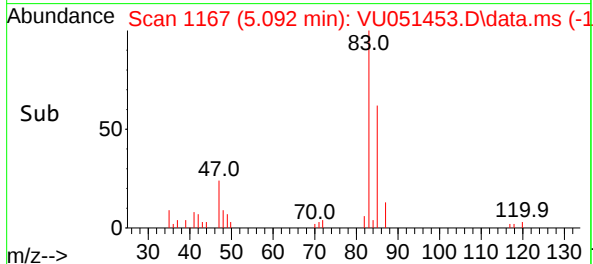
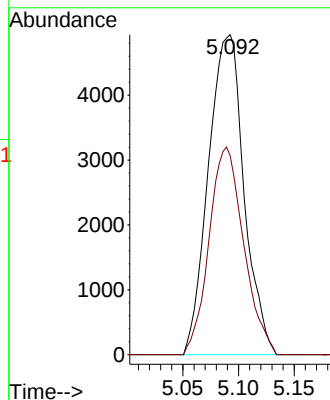
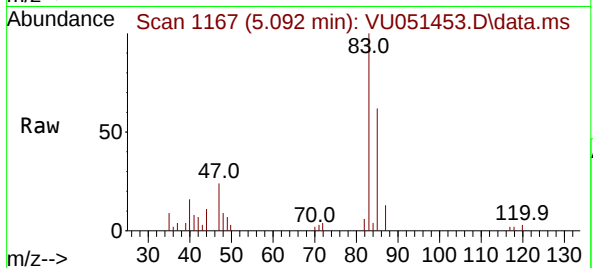
85 62.2 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#28

1,1,1-Trichloroethane

Concen: 0.348 ug/l

RT: 5.314 min Scan# 1236

Delta R.T. -0.000 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

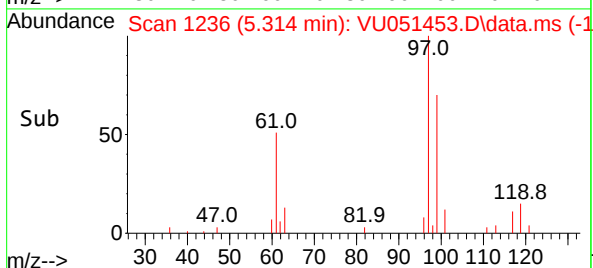
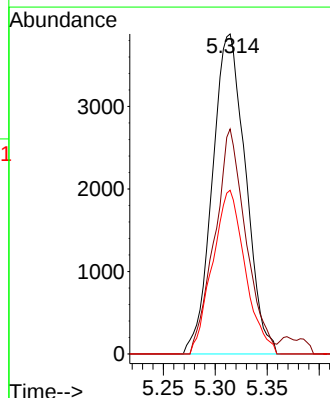
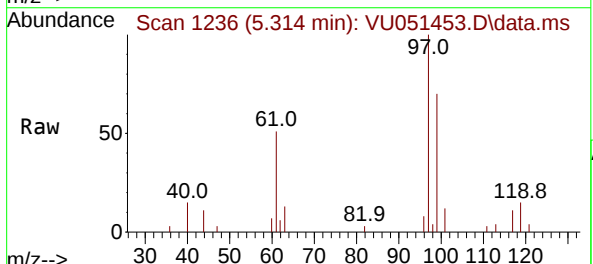
Tgt Ion: 97 Resp: 8599

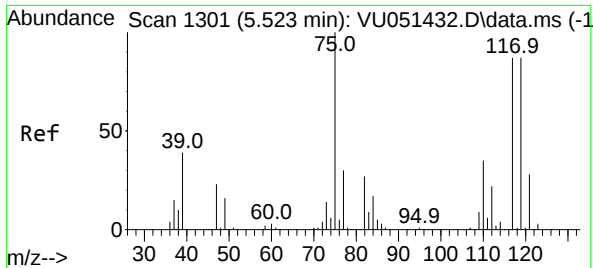
Ion Ratio Lower Upper

97 100

99 66.4 31.8 95.4

61 50.5 23.6 71.0





#29

1,1-Dichloropropene

Concen: 0.311 ug/l

RT: 5.523 min Scan# 1109

Delta R.T. -0.000 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 75 Resp: 589

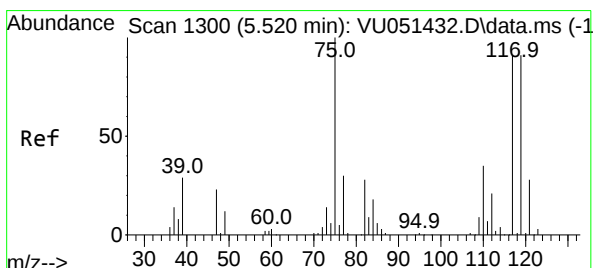
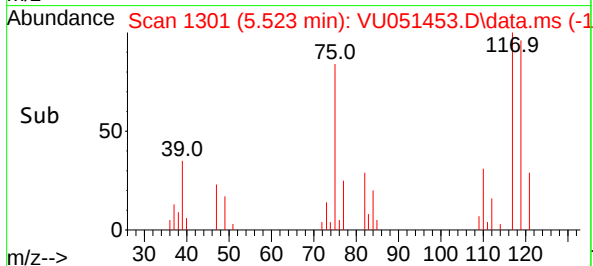
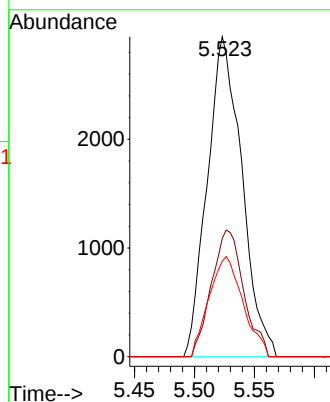
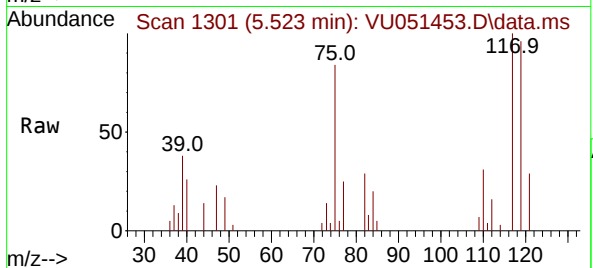
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 36.9  | 17.8  | 53.3  |
| 77  | 30.7  | 24.2  | 36.4  |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#30

Carbon Tetrachloride

Concen: 0.361 ug/l

RT: 5.520 min Scan# 1300

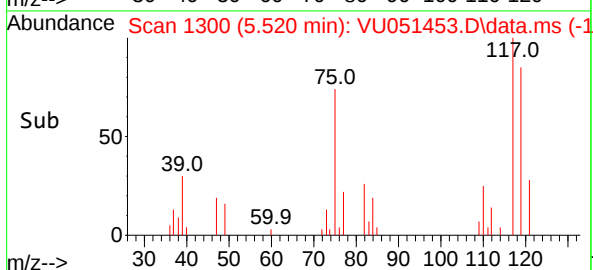
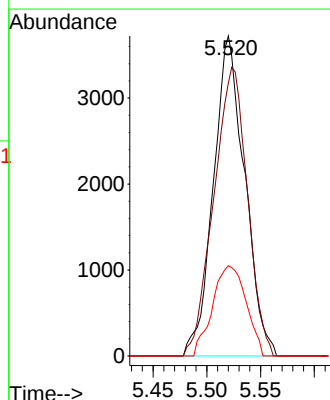
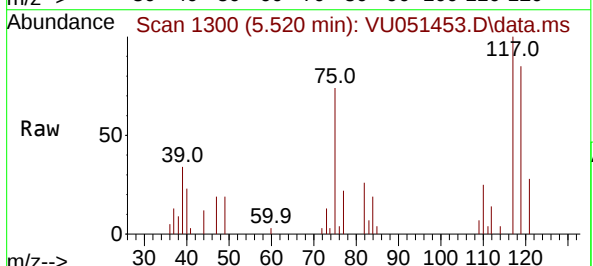
Delta R.T. -0.000 min

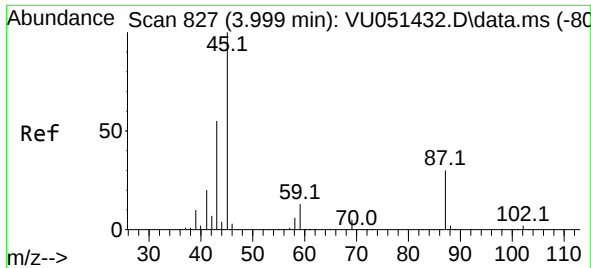
Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Tgt Ion:117 Resp: 7540

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 85.3  | 80.0  | 120.0 |
| 121 | 28.2  | 24.9  | 37.3  |





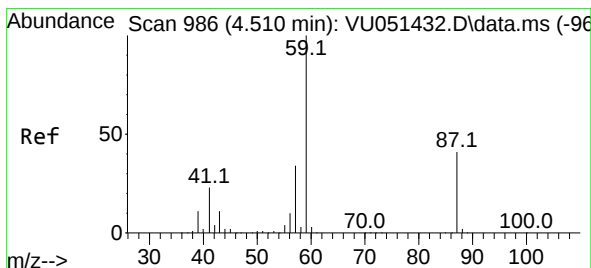
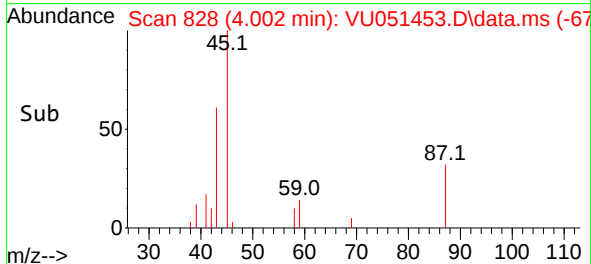
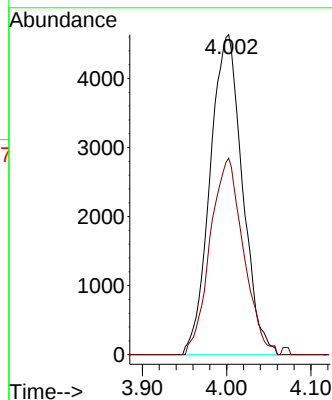
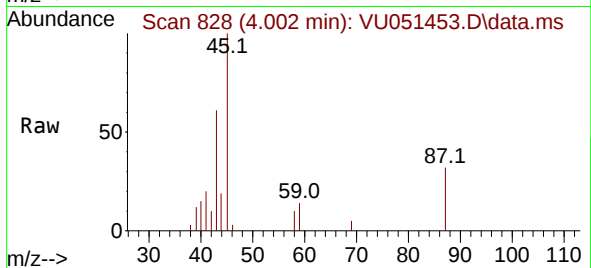
#31  
Isopropyl Ether  
Concen: 0.342 ug/l  
RT: 4.002 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022

Tgt Ion: 45 Resp: 1236  
Ion Ratio Lower Upper  
45 100  
43 63.2 27.6 82.7

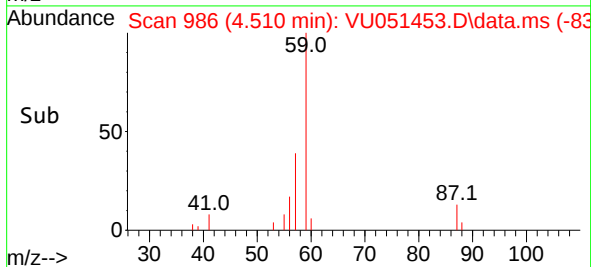
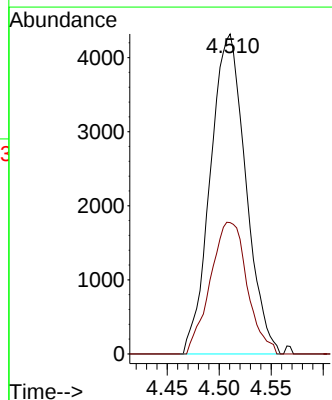
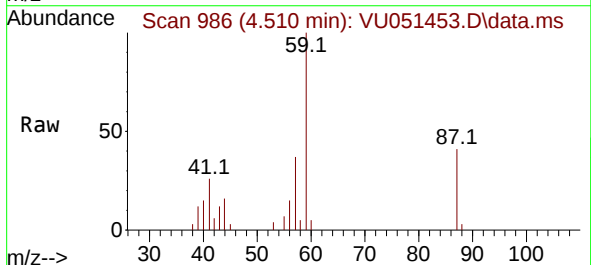
Manual Integrations  
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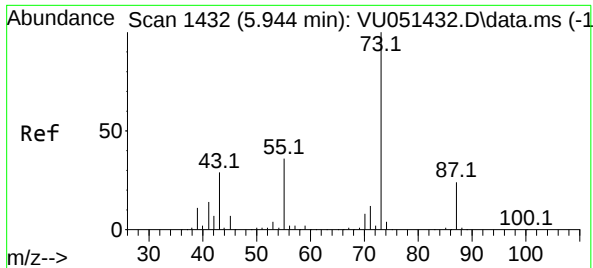
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#32  
Ethyl-t-butyl ether  
Concen: 0.310 ug/l  
RT: 4.510 min Scan# 986  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Tgt Ion: 59 Resp: 10229  
Ion Ratio Lower Upper  
59 100  
87 42.8 33.8 50.8





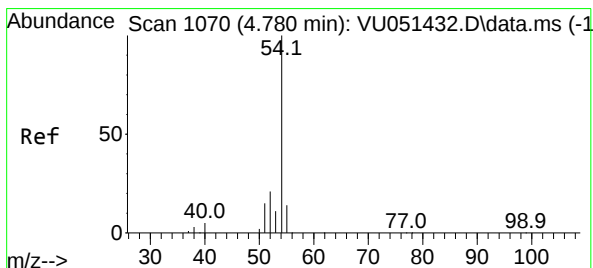
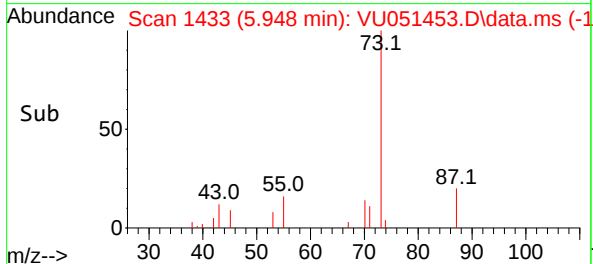
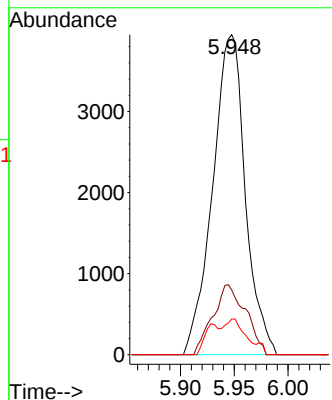
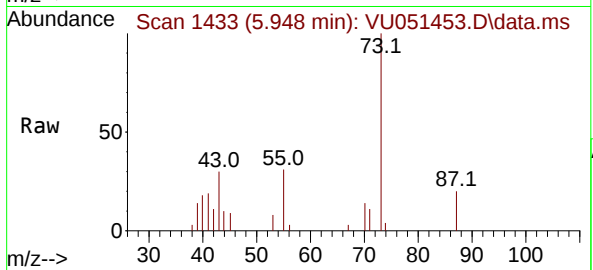
#33  
Tert-Amyl methyl ether  
Concen: 0.287 ug/l  
RT: 5.948 min Scan# 1432  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022

Tgt Ion: 73 Resp: 834  
Ion Ratio Lower Upper  
73 100  
87 22.0 18.9 28.3  
71 7.5 9.4 14.2

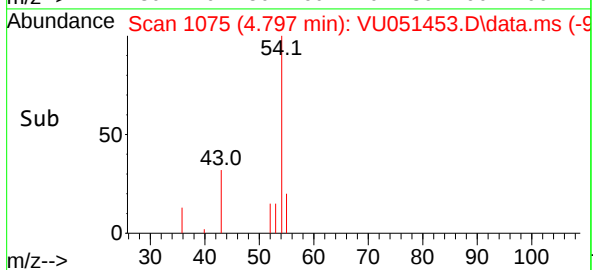
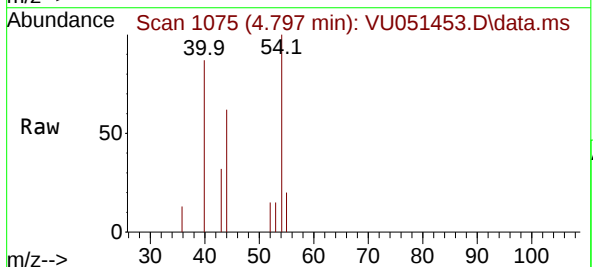
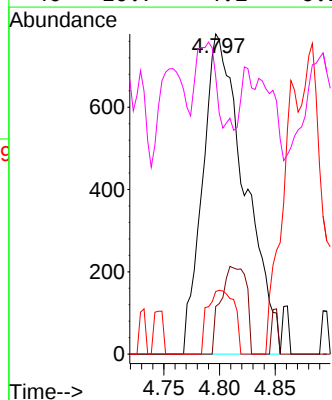
Manual Integrations  
APPROVED

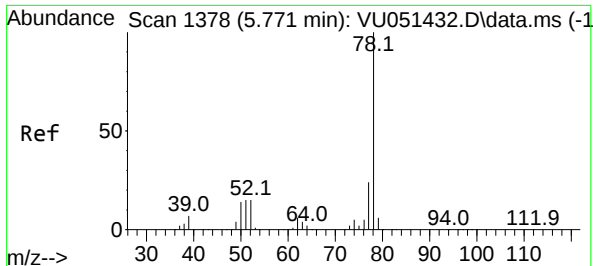
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#34  
Propionitrile  
Concen: 1.597 ug/l  
RT: 4.797 min Scan# 1075  
Delta R.T. 0.016 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

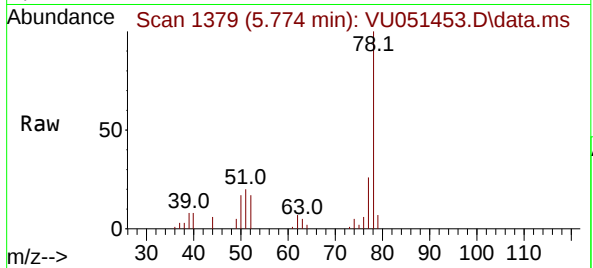
Tgt Ion: 54 Resp: 2048  
Ion Ratio Lower Upper  
54 100  
52 0.0 16.4 24.6#  
55 12.5 11.5 17.3  
40 10.7 4.2 6.2#





#35  
Benzene  
Concen: 0.318 ug/l  
RT: 5.774 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

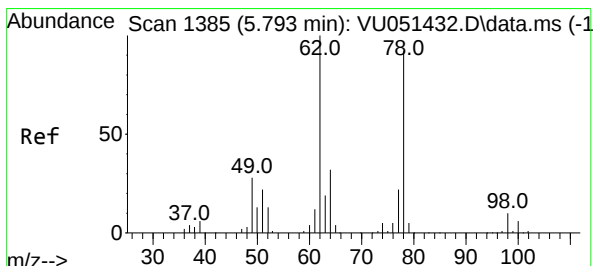
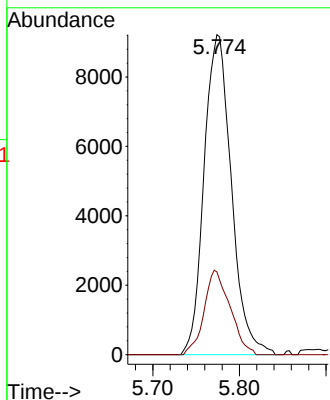
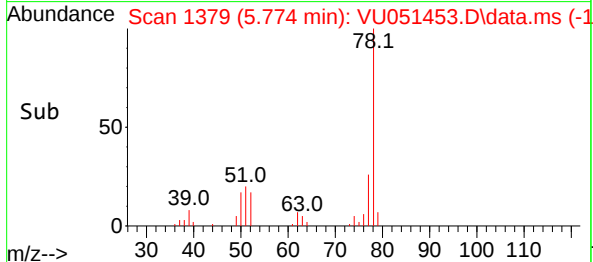
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 78 Resp: 2018  
Ion Ratio Lower Upper  
78 100  
77 25.8 19.0 28.6

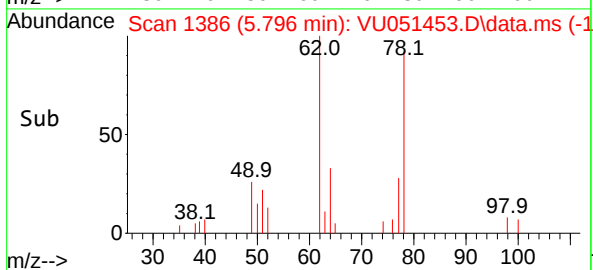
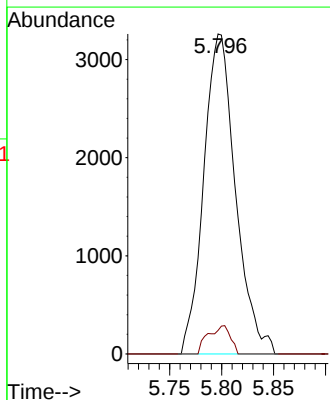
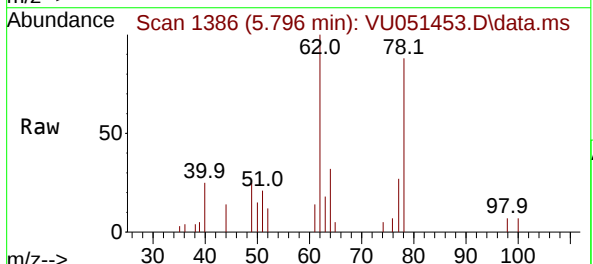
Manual Integrations  
APPROVED

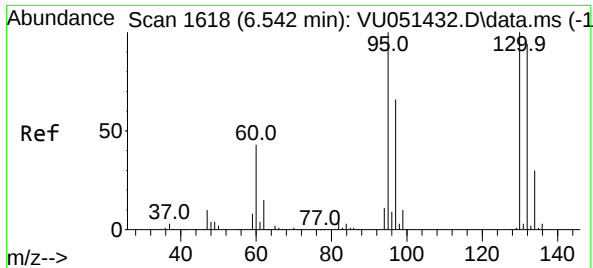
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#36  
1,2-Dichloroethane  
Concen: 0.355 ug/l  
RT: 5.796 min Scan# 1386  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

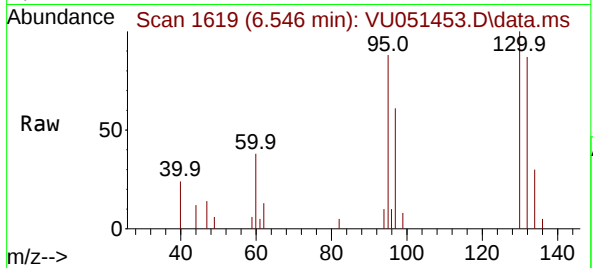
Tgt Ion: 62 Resp: 6953  
Ion Ratio Lower Upper  
62 100  
98 6.2 7.4 11.2#





#37  
 Trichloroethene  
 Concen: 0.355 ug/l  
 RT: 6.546 min Scan# 1619  
 Delta R.T. 0.003 min  
 Lab File: VU051453.D  
 Acq: 19 Oct 2022 12:53

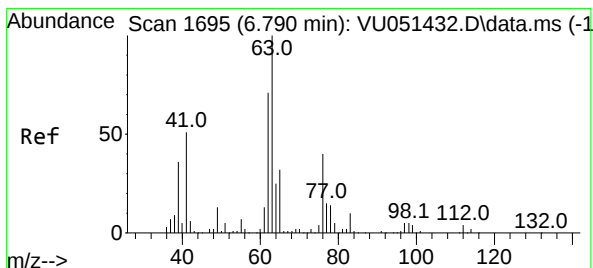
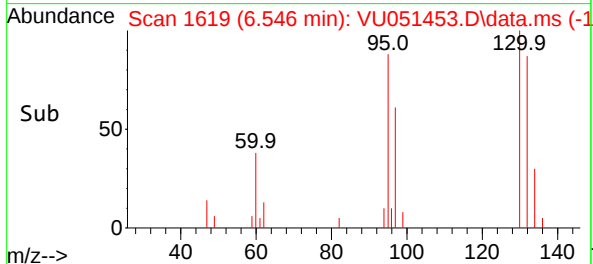
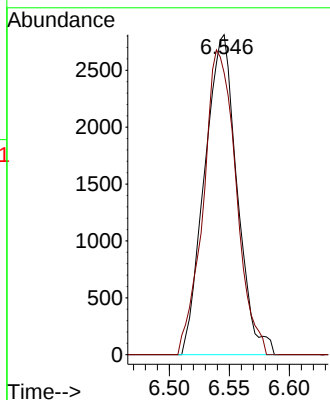
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT4-2022



Tgt Ion:130 Resp: 5290  
 Ion Ratio Lower Upper  
 130 100  
 95 88.1 80.2 120.4

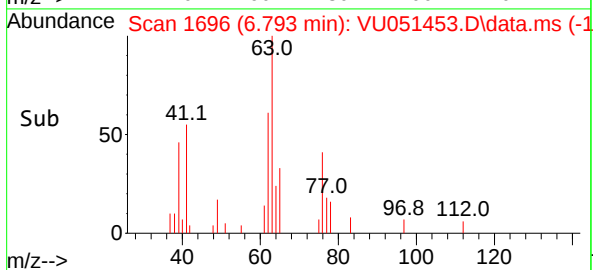
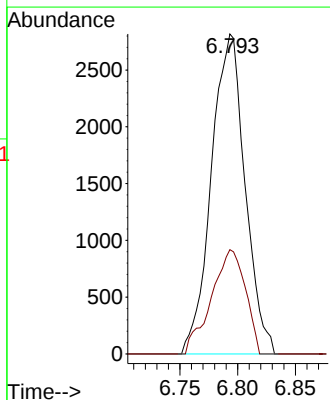
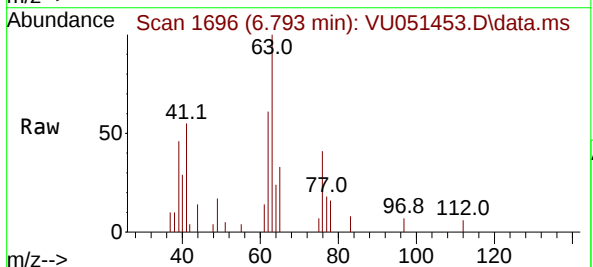
Manual Integrations  
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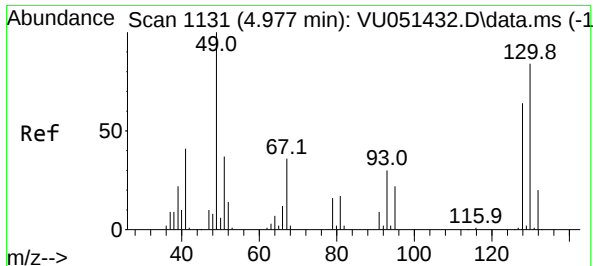
Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/25/2022



#38  
 1,2-Dichloropropane  
 Concen: 0.328 ug/l  
 RT: 6.793 min Scan# 1696  
 Delta R.T. 0.003 min  
 Lab File: VU051453.D  
 Acq: 19 Oct 2022 12:53

Tgt Ion: 63 Resp: 5712  
 Ion Ratio Lower Upper  
 63 100  
 65 32.6 25.4 38.2





#39

Methacrylonitrile

Concen: 0.265 ug/l m

RT: 4.993 min Scan# 1136

Delta R.T. 0.016 min

Lab File: VU051453.D

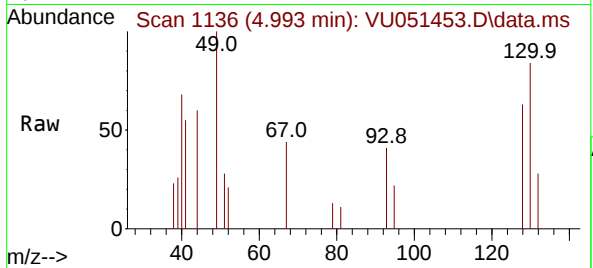
Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022



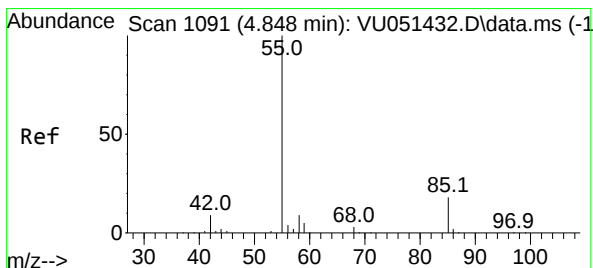
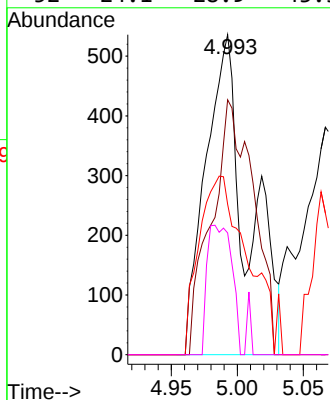
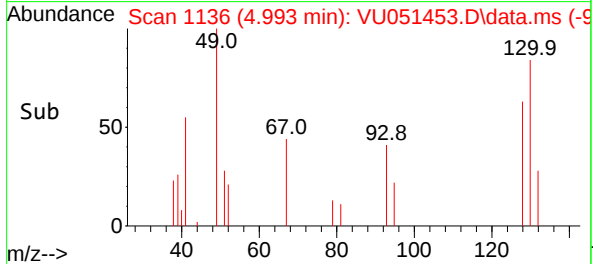
| Tgt Ion: | 41    | Resp: | 1164  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 67       | 81.5  | 69.6  | 104.4 |
| 39       | 66.3  | 42.2  | 63.4  |
| 52       | 24.1  | 28.9  | 43.3  |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#40

Methyl acrylate

Concen: 0.250 ug/l m

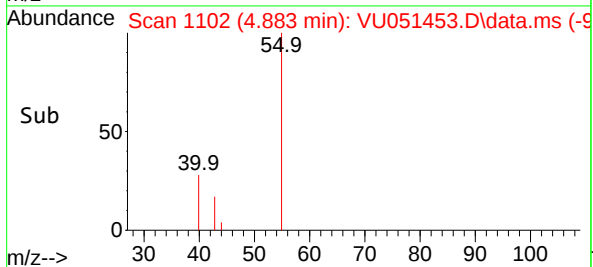
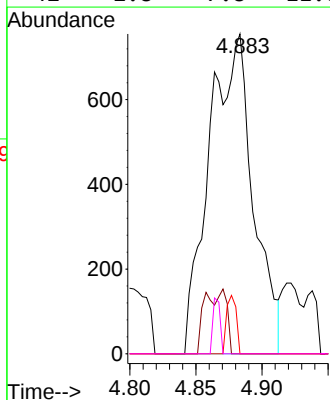
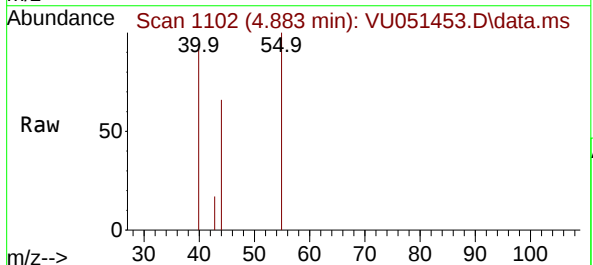
RT: 4.883 min Scan# 1102

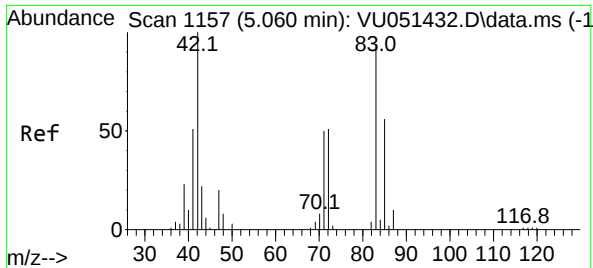
Delta R.T. 0.035 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

| Tgt Ion: | 55    | Resp: | 1750  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 55       | 100   |       |       |
| 85       | 0.0   | 15.0  | 22.6  |
| 58       | 4.0   | 7.5   | 11.3  |
| 42       | 2.8   | 7.8   | 11.6  |





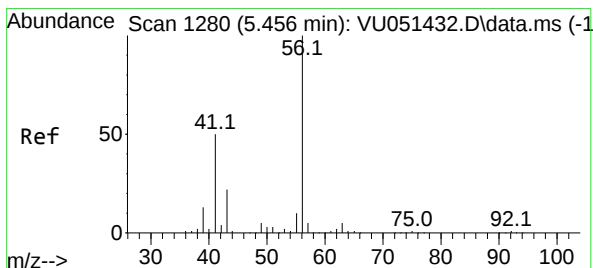
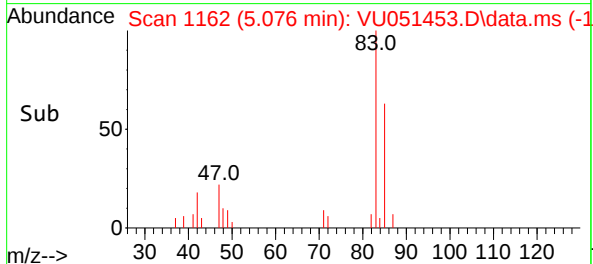
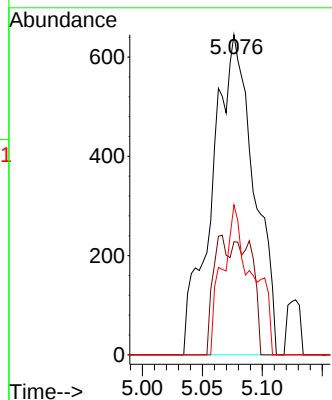
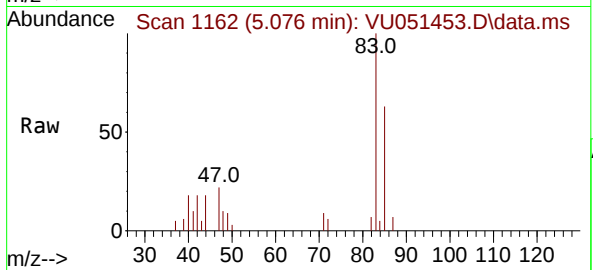
#41  
Tetrahydrofuran  
Concen: 0.682 ug/l  
RT: 5.076 min Scan# 1157  
Delta R.T. 0.016 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022

Tgt Ion: 42 Resp: 1569  
Ion Ratio Lower Upper  
42 100  
72 14.7 42.6 64.0  
71 33.6 38.3 57.5

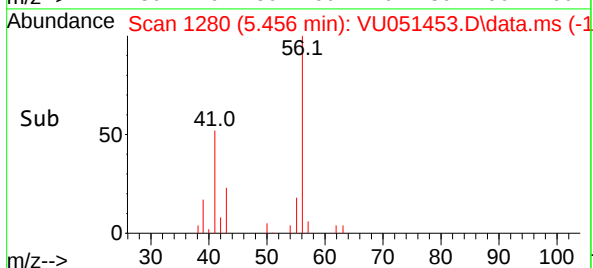
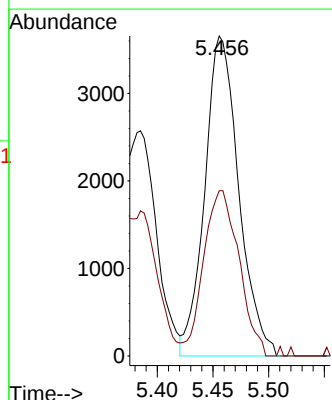
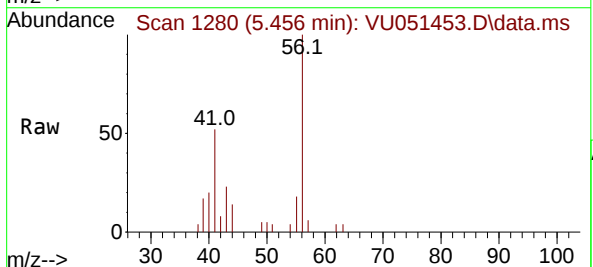
Manual Integrations  
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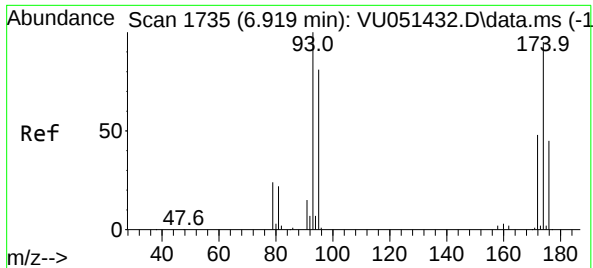
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#42  
1-Chlorobutane  
Concen: 0.300 ug/l  
RT: 5.456 min Scan# 1280  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Tgt Ion: 56 Resp: 7761  
Ion Ratio Lower Upper  
56 100  
41 53.9 24.8 74.4





#43

Dibromomethane

Concen: 0.318 ug/l

RT: 6.922 min Scan# 1736

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 93 Resp: 288

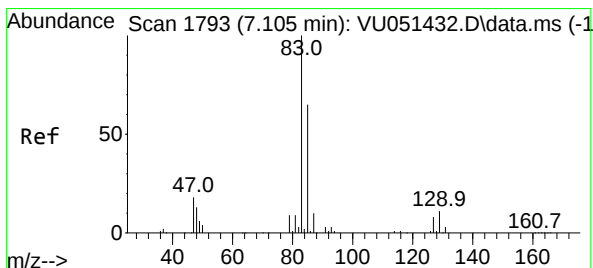
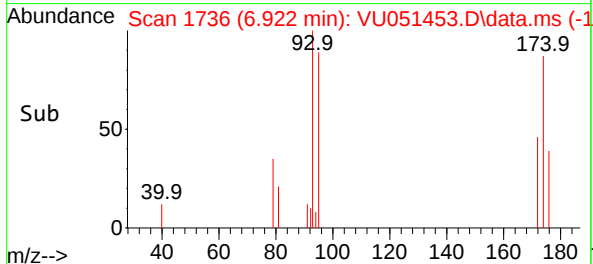
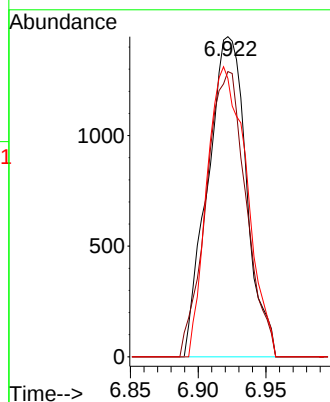
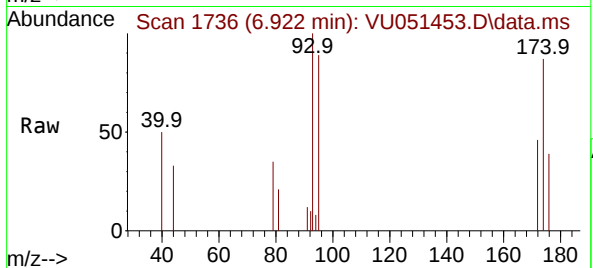
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 93  | 100   |       |       |
| 95  | 91.3  | 66.7  | 100.1 |
| 174 | 92.7  | 75.5  | 113.3 |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#44

Bromodichloromethane

Concen: 0.345 ug/l

RT: 7.108 min Scan# 1794

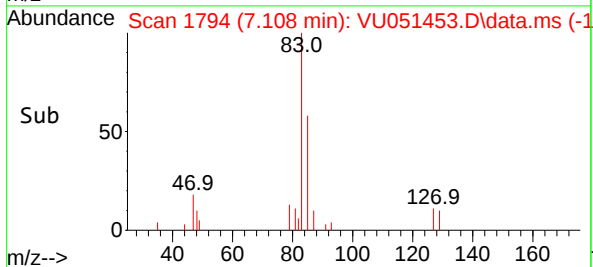
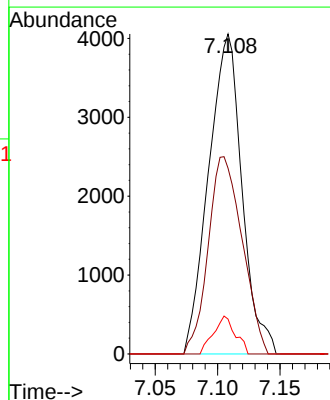
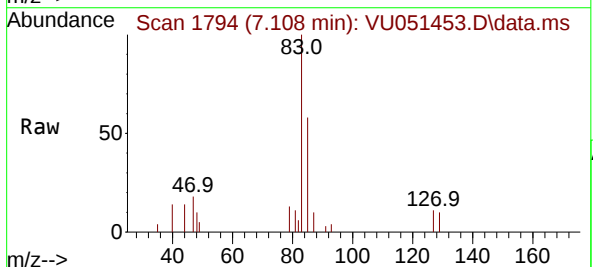
Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Tgt Ion: 83 Resp: 7560

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 58.1  | 52.1  | 78.1  |
| 127 | 10.9  | 6.8   | 10.2  |





#45

4-Methyl-2-Pentanone

Concen: 1.260 ug/l

RT: 7.796 min Scan# 2007

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

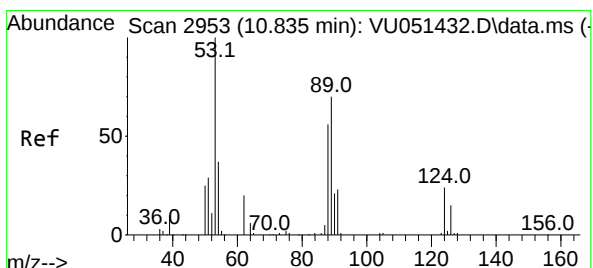
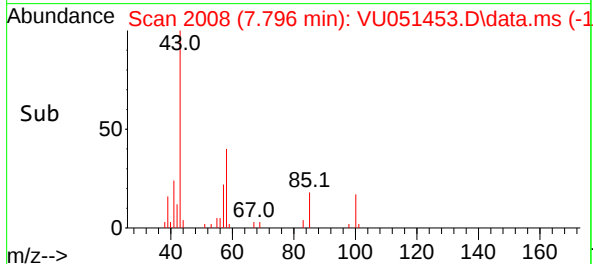
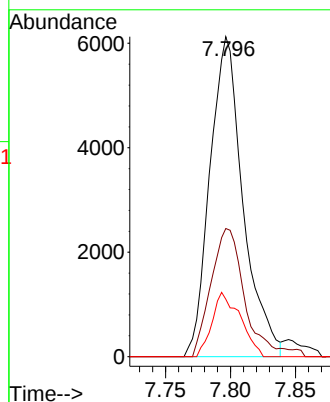
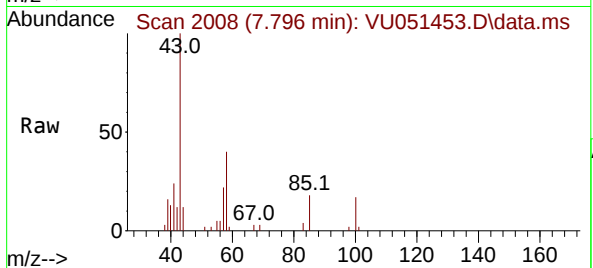
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 1085  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 41.1     | 21.4 64.3   |
| 85 17.2     | 15.4 23.0   |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#46

t-1,4-Dichloro-2-butene

Concen: 0.680 ug/l m

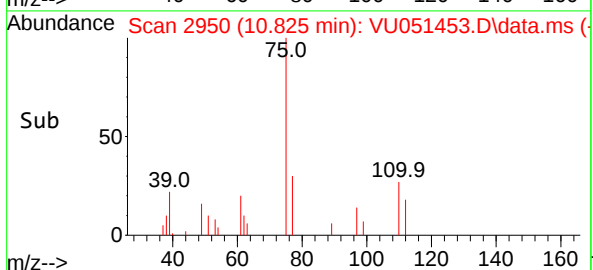
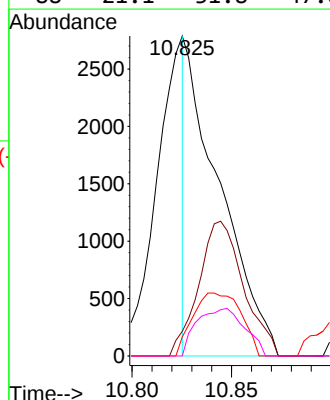
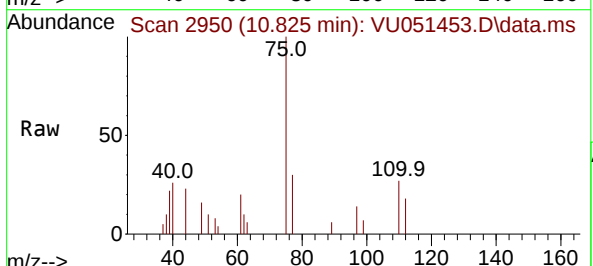
RT: 10.825 min Scan# 2950

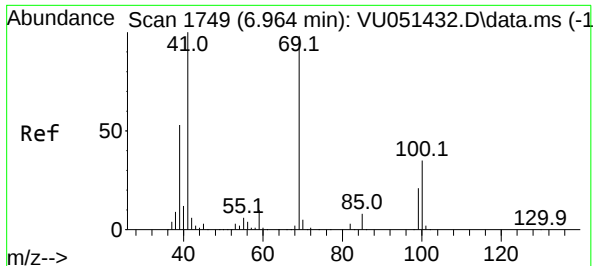
Delta R.T. -0.010 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 3272  |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 53 56.1     | 61.1 91.7#  |
| 89 28.1     | 41.0 61.6#  |
| 88 21.1     | 31.8 47.8#  |





#47

Methyl methacrylate

Concen: 0.493 ug/l

RT: 6.967 min Scan# 1749

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

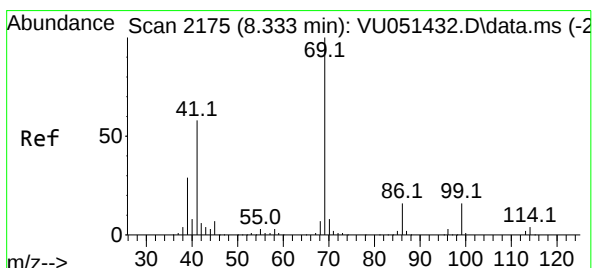
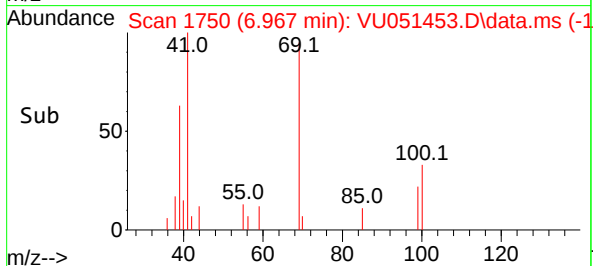
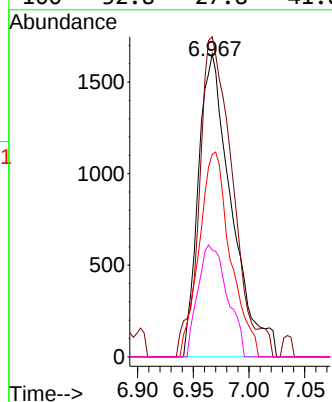
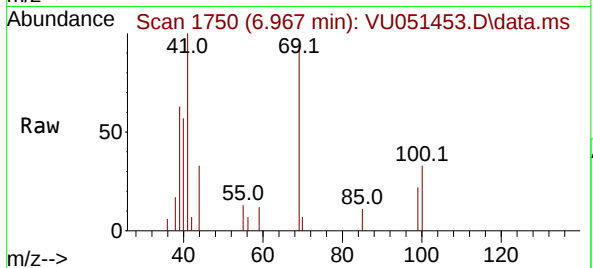
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 341   |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 106.3 | 0.0   | 200.8 |
| 39       | 63.8  | 44.1  | 66.1  |
| 100      | 32.8  | 27.8  | 41.8  |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#48

Ethyl methacrylate

Concen: 0.230 ug/l

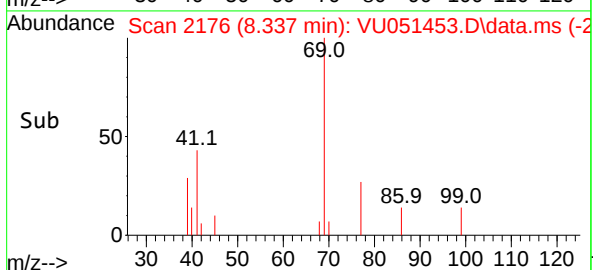
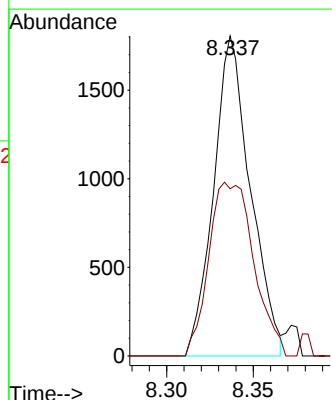
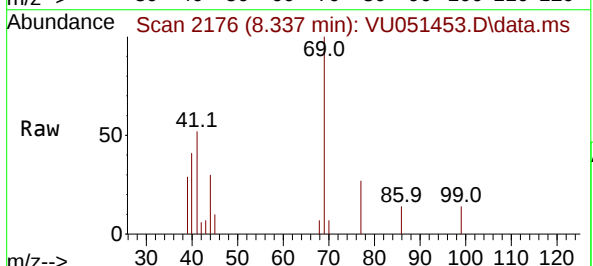
RT: 8.337 min Scan# 2176

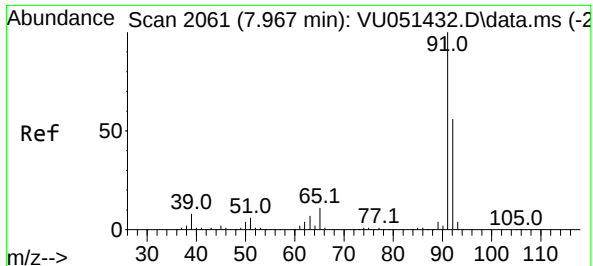
Delta R.T. 0.004 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 2671  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 66.1  | 28.8  | 86.5  |





#49

Toluene

Concen: 0.267 ug/l

RT: 7.970 min Scan# 2061

Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

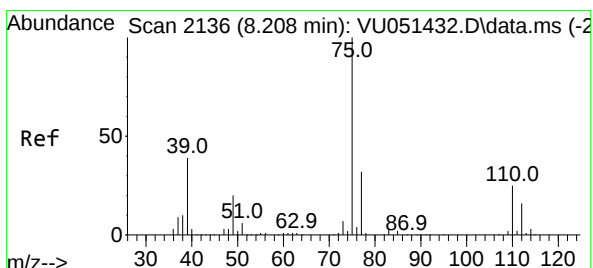
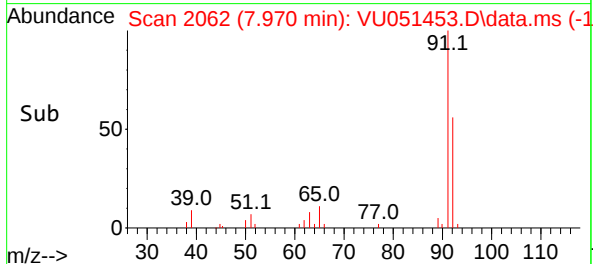
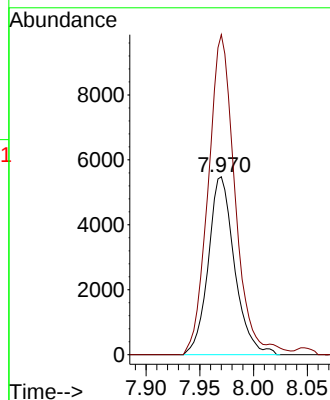
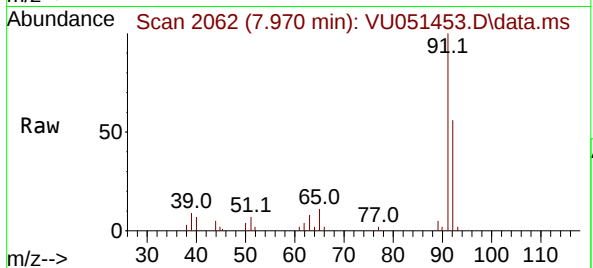
Tgt Ion: 92 Resp: 929  
 Ion Ratio Lower Upper  
 92 100  
 91 183.8 141.8 212.6

Manual Integrations

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Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#50

t-1,3-Dichloropropene

Concen: 0.306 ug/l

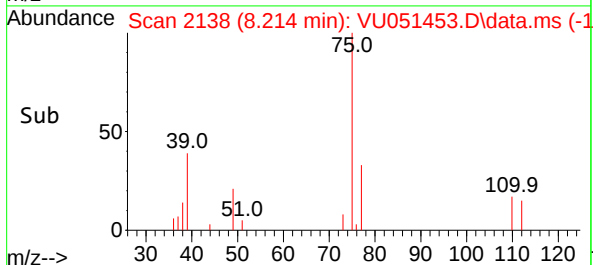
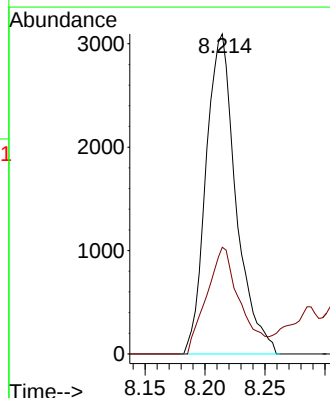
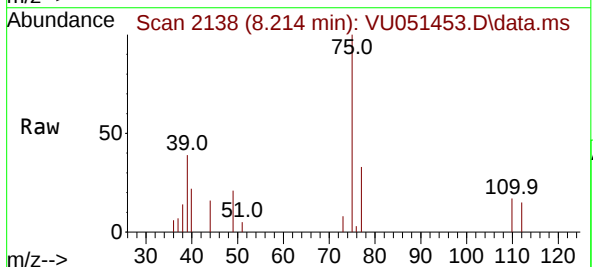
RT: 8.214 min Scan# 2138

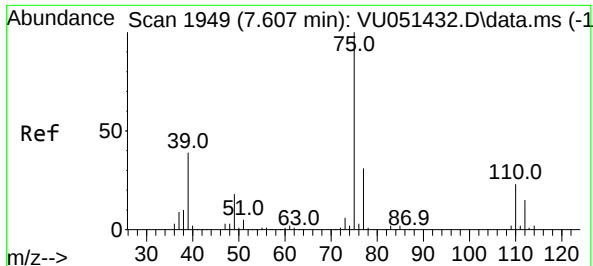
Delta R.T. 0.006 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Tgt Ion: 75 Resp: 5384  
 Ion Ratio Lower Upper  
 75 100  
 77 33.3 25.8 38.6





#51

cis-1,3-Dichloropropene

Concen: 0.324 ug/l

RT: 7.607 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

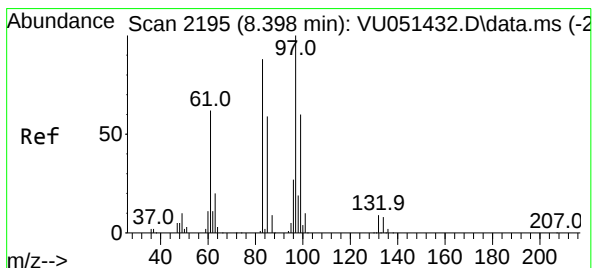
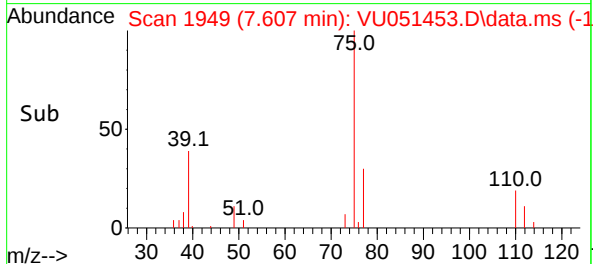
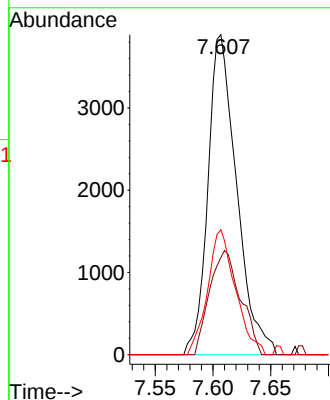
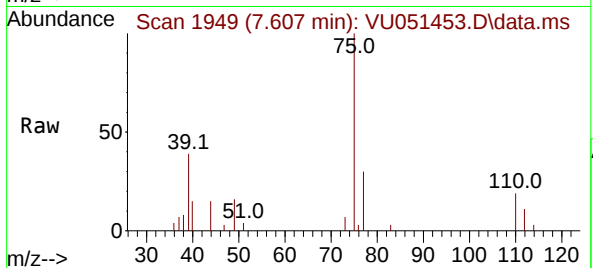
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 672  |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 77        | 30.3  | 25.1  | 37.7 |
| 39        | 39.0  | 31.4  | 47.0 |

Manual Integrations

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Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#52

1,1,2-Trichloroethane

Concen: 0.331 ug/l

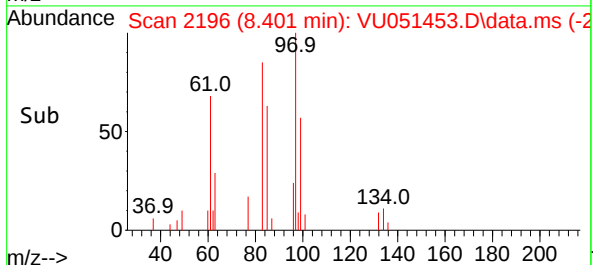
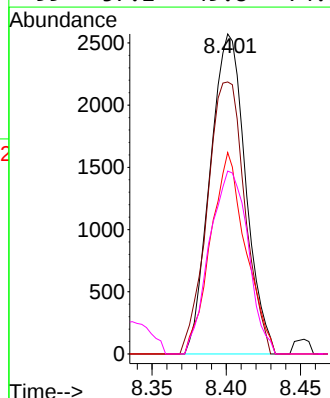
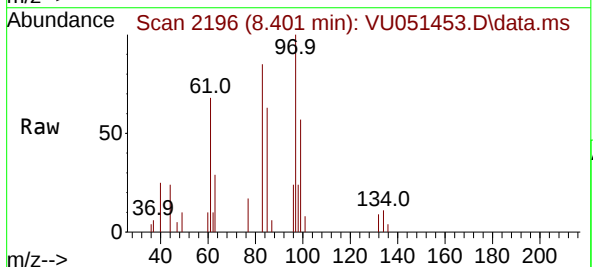
RT: 8.401 min Scan# 2196

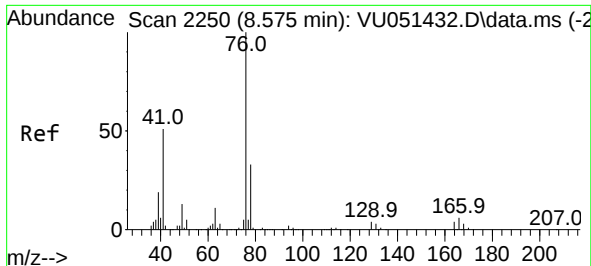
Delta R.T. 0.003 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 97    | Resp: | 4272  |
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 83        | 85.0  | 70.6  | 105.8 |
| 85        | 62.9  | 47.0  | 70.4  |
| 99        | 57.2  | 49.8  | 74.8  |





#53

1,3-Dichloropropane

Concen: 0.293 ug/l

RT: 8.575 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

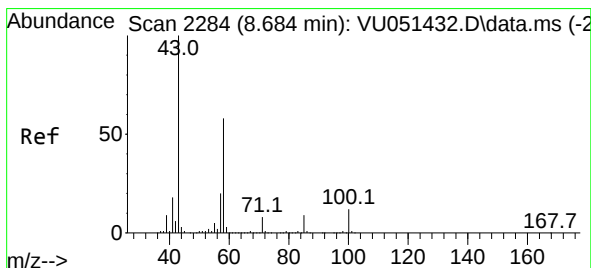
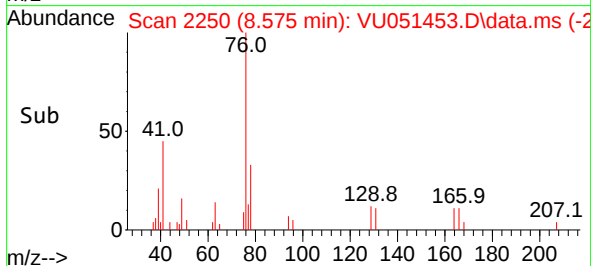
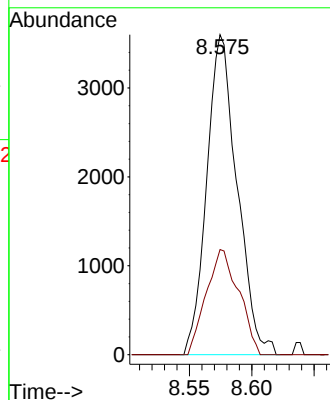
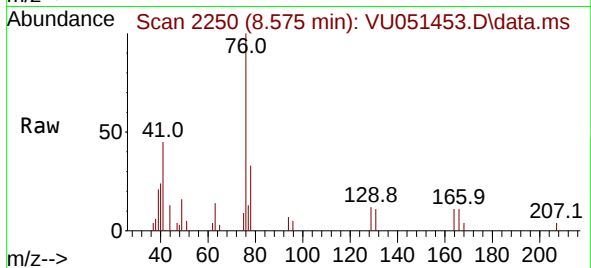
Tgt Ion: 76 Resp: 6094  
 Ion Ratio Lower Upper  
 76 100  
 78 35.2 26.4 39.6

Manual Integrations

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Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/25/2022



#54

2-Hexanone

Concen: 1.331 ug/l

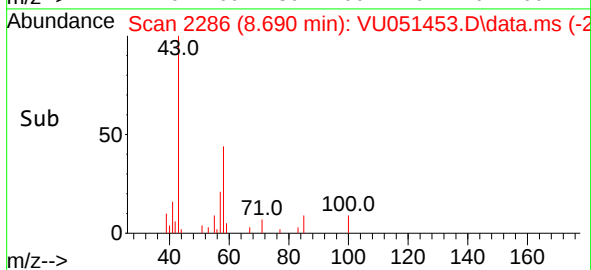
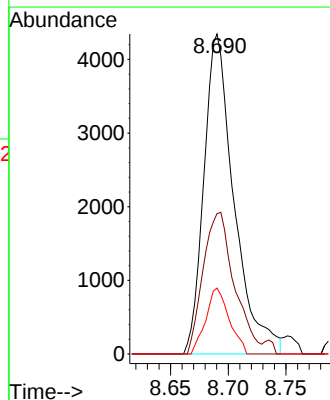
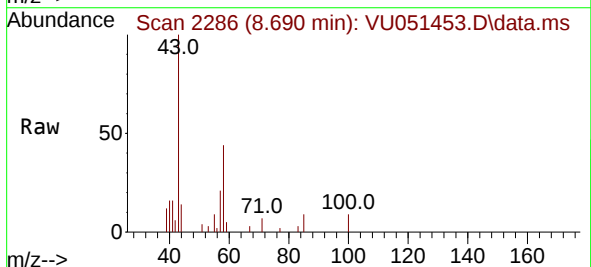
RT: 8.690 min Scan# 2286

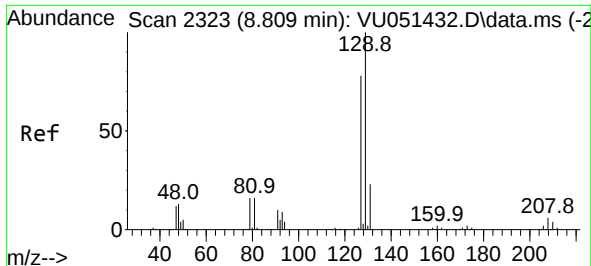
Delta R.T. 0.006 min

Lab File: VU051453.D

Acq: 19 Oct 2022 12:53

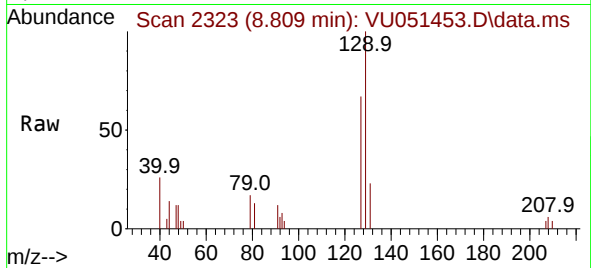
Tgt Ion: 43 Resp: 7885  
 Ion Ratio Lower Upper  
 43 100  
 58 45.7 38.0 78.0  
 57 16.0 0.0 39.9





#55  
Dibromochloromethane  
Concen: 0.329 ug/l  
RT: 8.809 min Scan# 2323  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

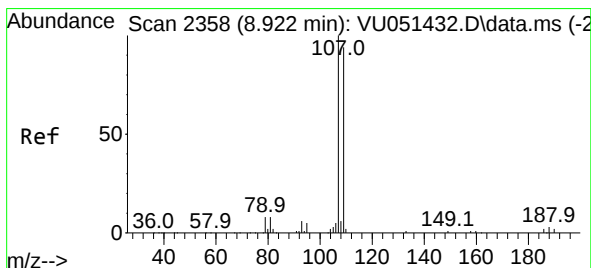
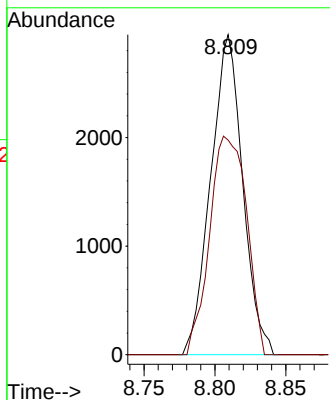
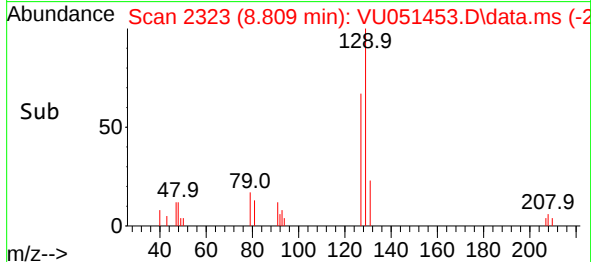
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



Tgt Ion:129 Resp: 462  
Ion Ratio Lower Upper  
129 100  
127 79.0 62.1 93.1

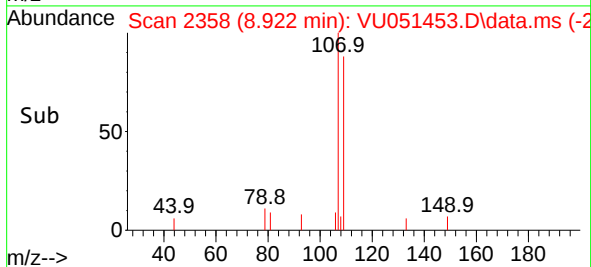
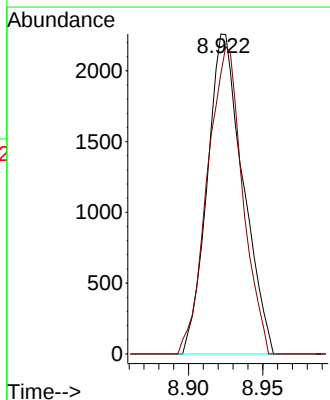
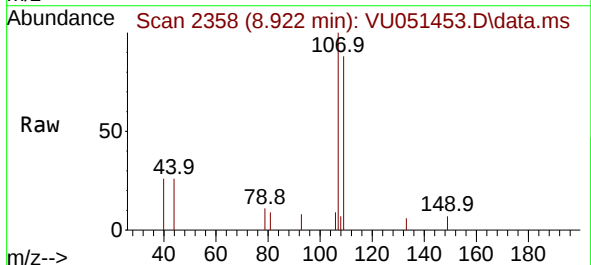
Manual Integrations  
APPROVED

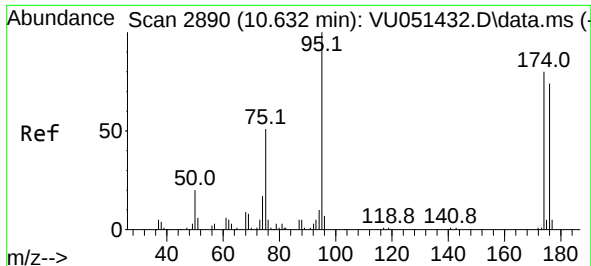
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#56  
1,2-Dibromoethane  
Concen: 0.333 ug/l  
RT: 8.922 min Scan# 2358  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

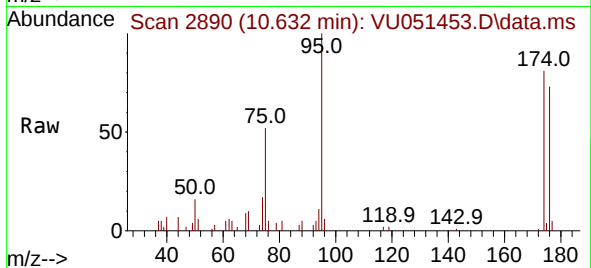
Tgt Ion:107 Resp: 3783  
Ion Ratio Lower Upper  
107 100  
109 94.2 0.0 190.6





#57  
4-Bromofluorobenzene  
Concen: 0.792 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

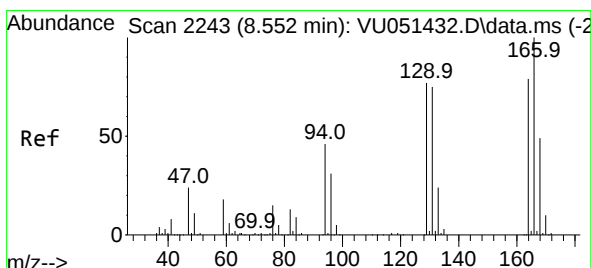
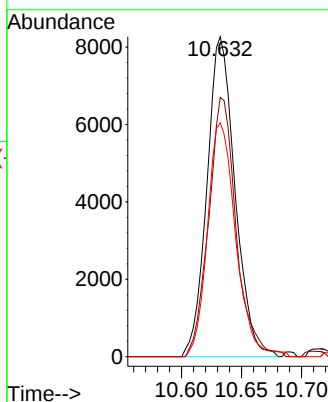
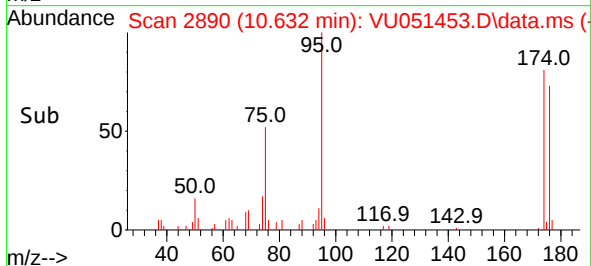
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



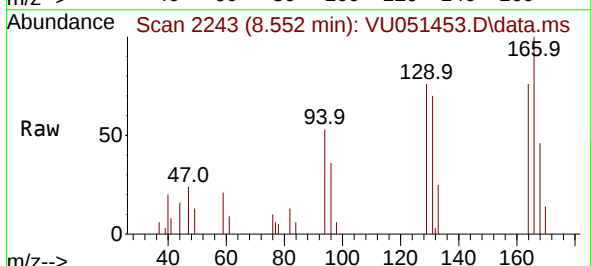
Tgt Ion: 95 Resp: 13436  
Ion Ratio Lower Upper  
95 100  
174 79.4 63.0 94.6  
176 73.7 59.8 89.6

Manual Integrations  
APPROVED

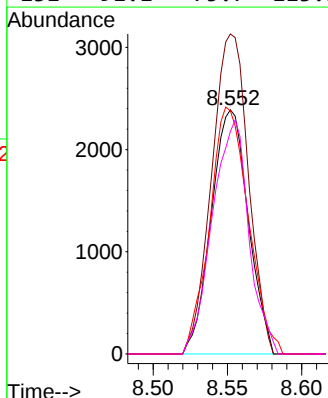
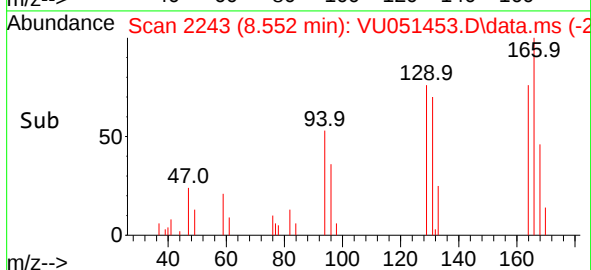
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

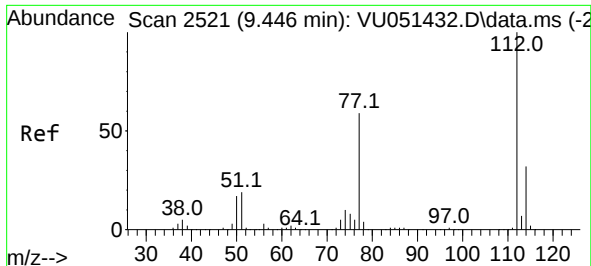


#58  
Tetrachloroethene  
Concen: 0.318 ug/l  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



Tgt Ion:164 Resp: 4136  
Ion Ratio Lower Upper  
164 100  
166 131.0 100.9 151.3  
129 99.6 77.5 116.3  
131 91.1 75.7 113.5





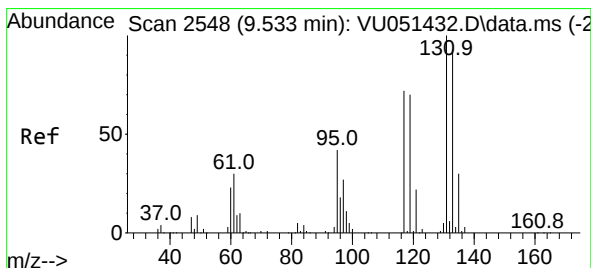
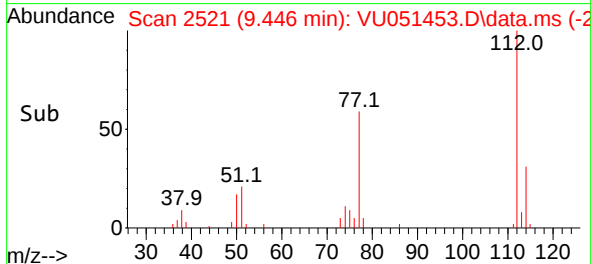
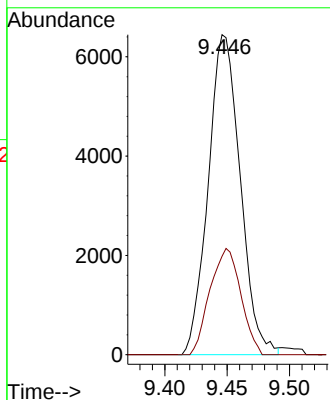
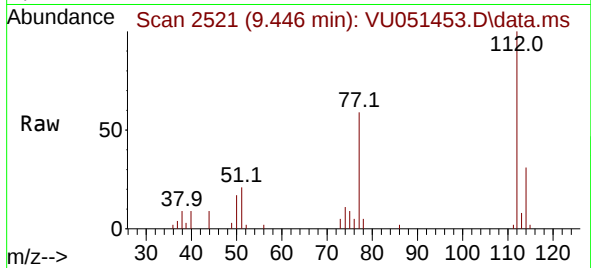
#59  
Chlorobenzene  
Concen: 0.301 ug/l  
RT: 9.446 min Scan# 2521  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022

Tgt Ion:112 Resp: 11520  
Ion Ratio Lower Upper  
112 100  
114 30.7 25.8 38.6

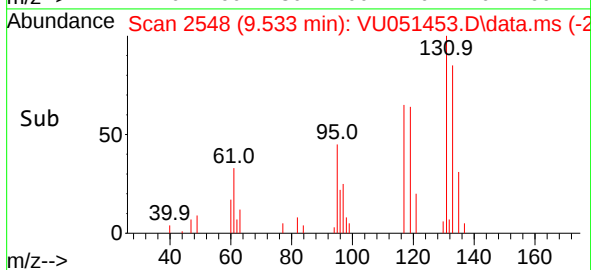
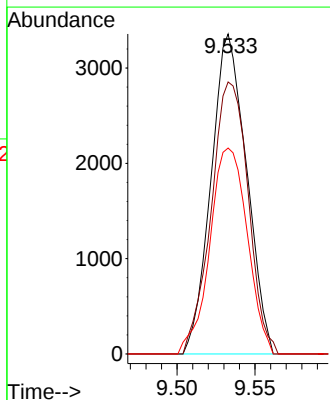
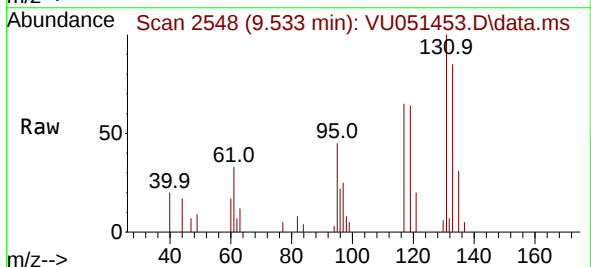
Manual Integrations  
APPROVED

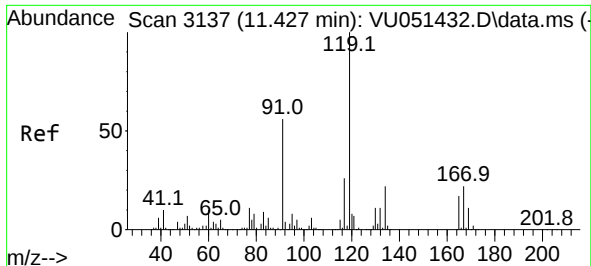
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#60  
1,1,1,2-Tetrachloroethane  
Concen: 0.362 ug/l  
RT: 9.533 min Scan# 2548  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Tgt Ion:131 Resp: 5311  
Ion Ratio Lower Upper  
131 100  
133 88.7 76.5 114.7  
119 68.0 56.5 84.7





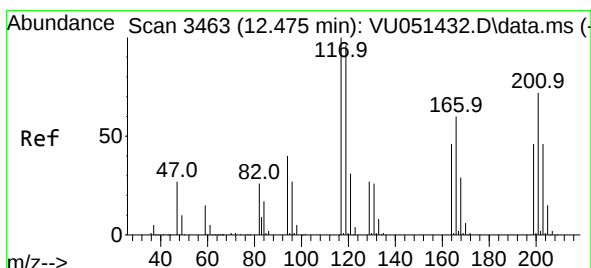
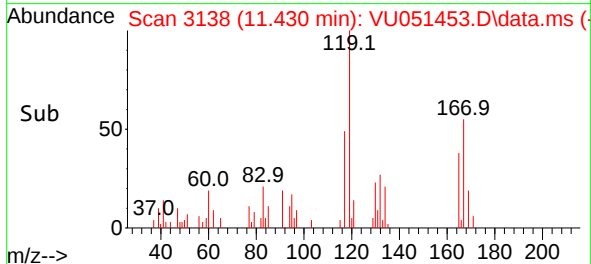
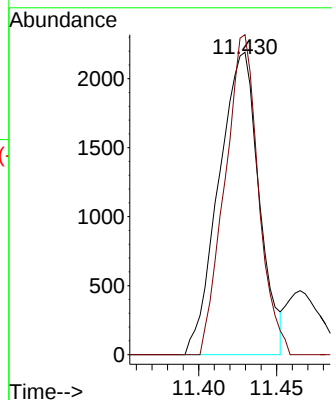
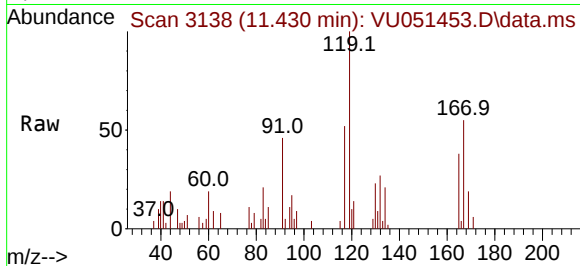
#61  
Pentachloroethane  
Concen: 0.302 ug/l  
RT: 11.430 min Scan# 3137  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022

Tgt Ion:117 Resp: 3945  
Ion Ratio Lower Upper  
117 100  
167 87.9 63.3 94.9

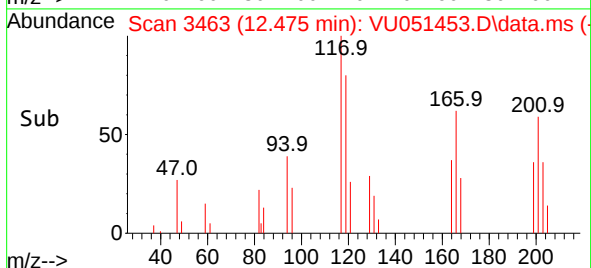
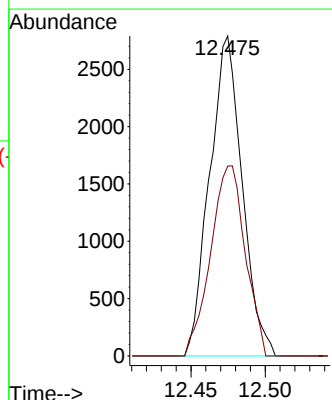
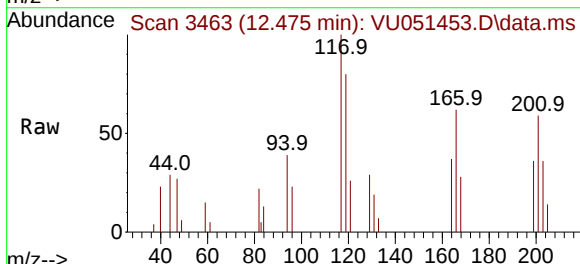
Manual Integrations  
APPROVED

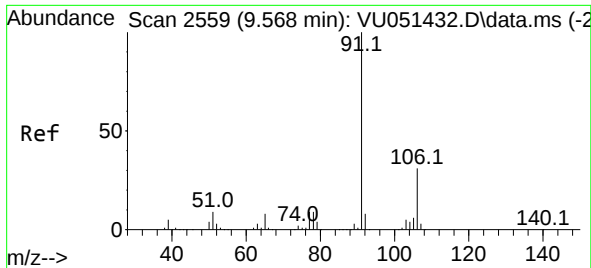
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#62  
Hexachloroethane  
Concen: 0.343 ug/l  
RT: 12.475 min Scan# 3463  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Tgt Ion:117 Resp: 4255  
Ion Ratio Lower Upper  
117 100  
201 63.1 57.4 86.2





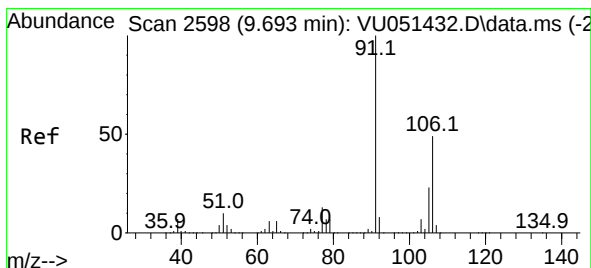
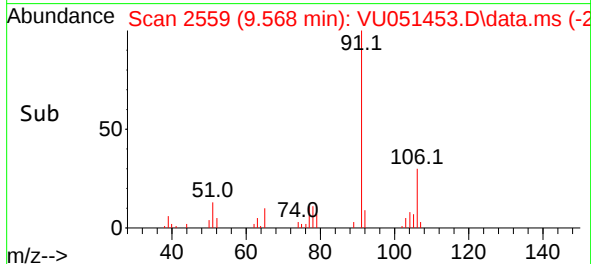
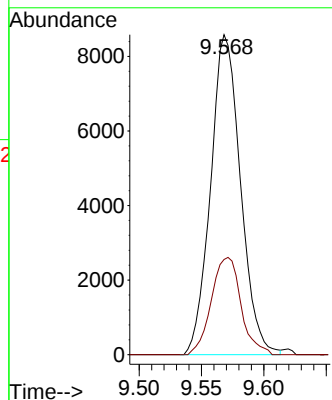
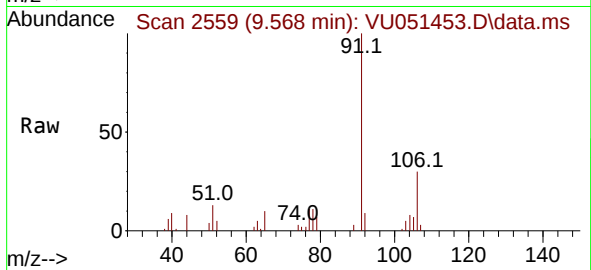
#63  
Ethyl Benzene  
Concen: 0.247 ug/l  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022

Tgt Ion: 91 Resp: 1434  
Ion Ratio Lower Upper  
91 100  
106 29.7 24.9 37.3

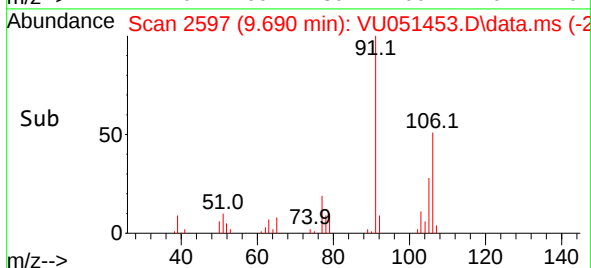
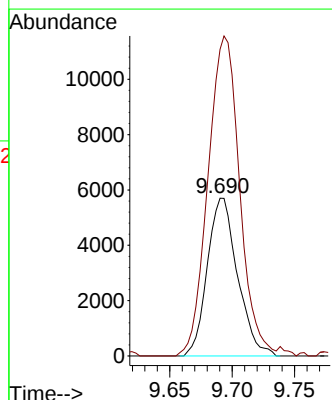
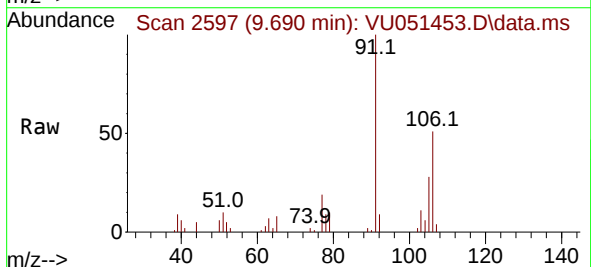
Manual Integrations  
APPROVED

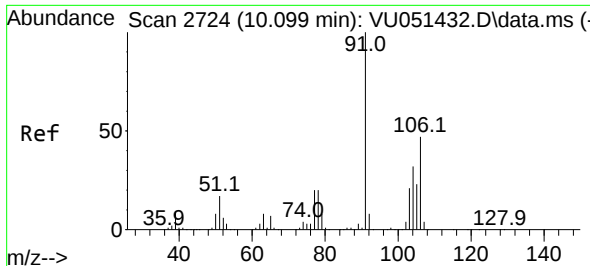
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#64  
m/p-Xylenes  
Concen: 0.416 ug/l  
RT: 9.690 min Scan# 2597  
Delta R.T. -0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Tgt Ion:106 Resp: 9616  
Ion Ratio Lower Upper  
106 100  
91 212.5 163.2 244.8





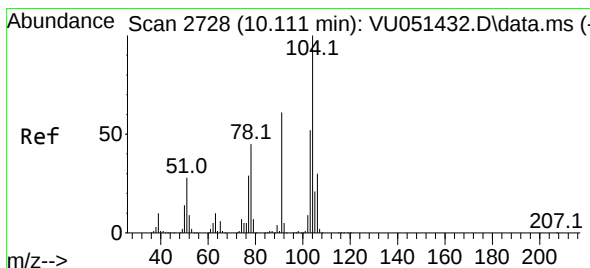
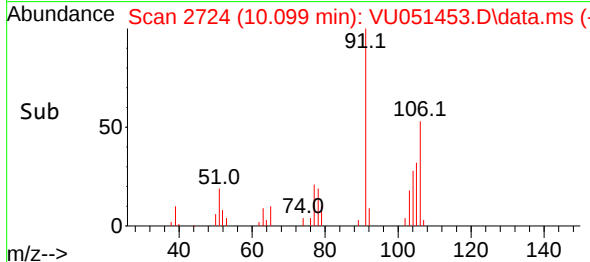
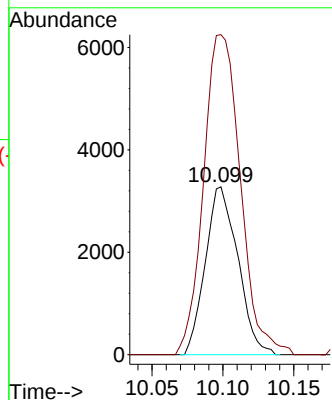
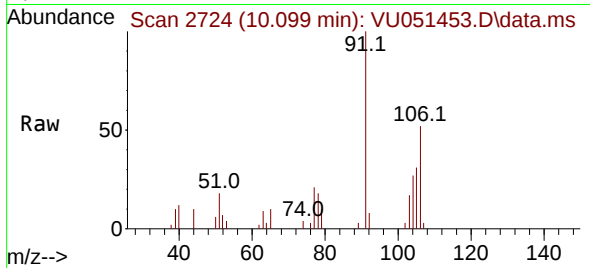
#65  
o-Xylene  
Concen: 0.232 ug/l  
RT: 10.099 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022

Tgt Ion:106 Resp: 5229  
Ion Ratio Lower Upper  
106 100  
91 216.1 107.1 321.3

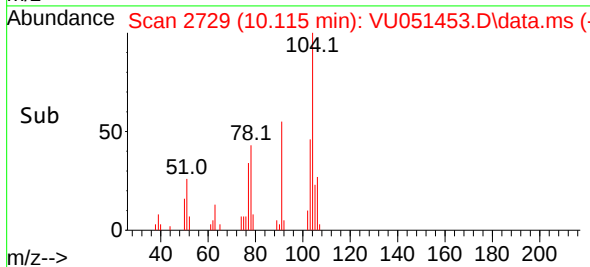
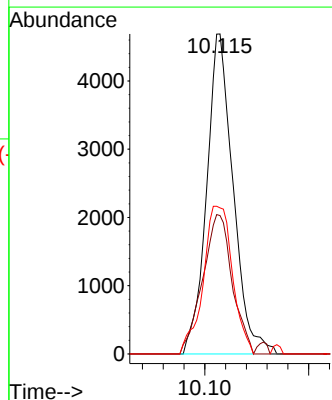
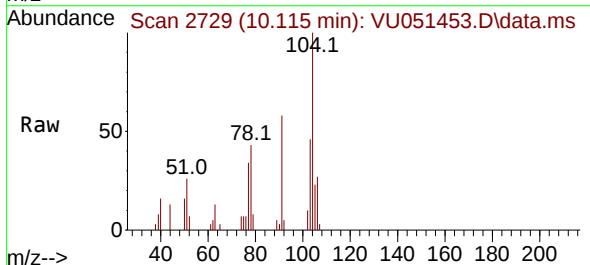
Manual Integrations  
APPROVED

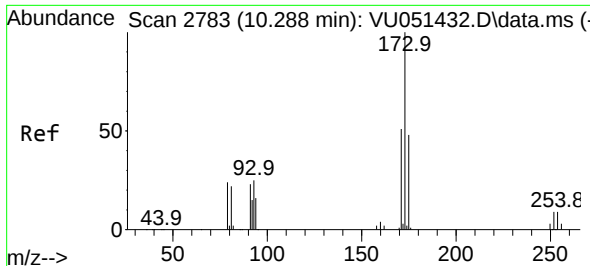
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#66  
Styrene  
Concen: 0.223 ug/l  
RT: 10.115 min Scan# 2729  
Delta R.T. 0.004 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

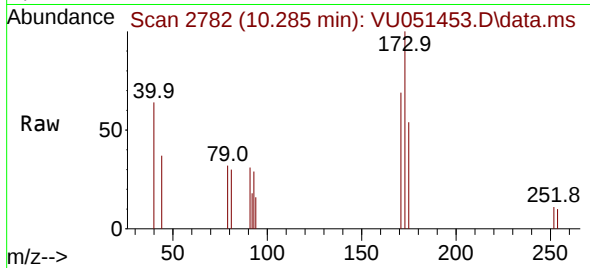
Tgt Ion:104 Resp: 8308  
Ion Ratio Lower Upper  
104 100  
78 48.5 39.7 59.5  
103 50.8 44.4 66.6





#67  
Bromoform  
Concen: 0.313 ug/l  
RT: 10.285 min Scan# 2783  
Delta R.T. -0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

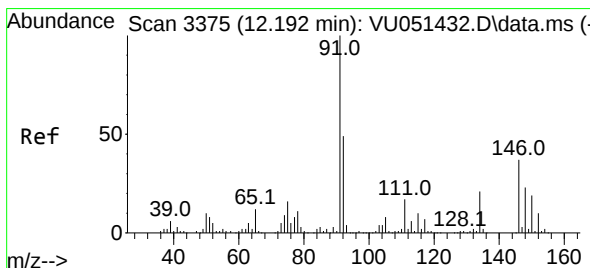
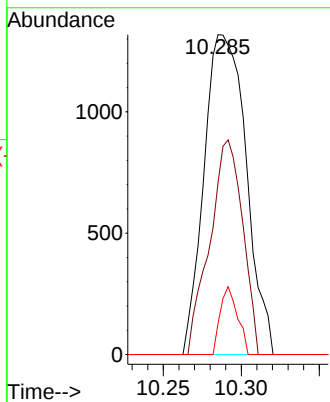
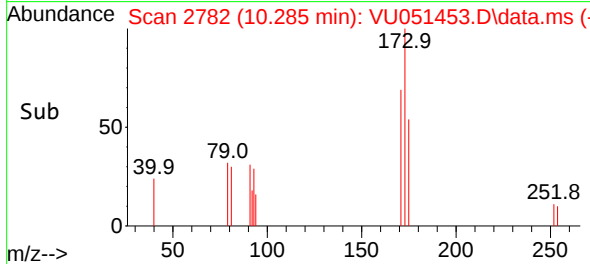
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



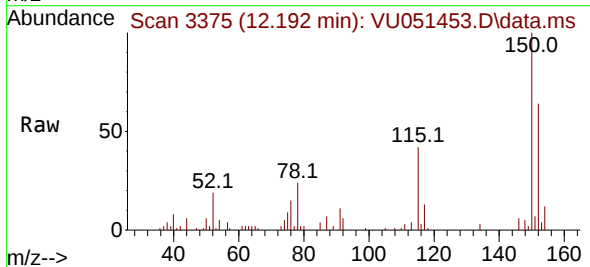
Tgt Ion:173 Resp: 2472  
Ion Ratio Lower Upper  
173 100  
175 52.5 38.6 58.0  
254 8.7 7.3 10.9

Manual Integrations  
APPROVED

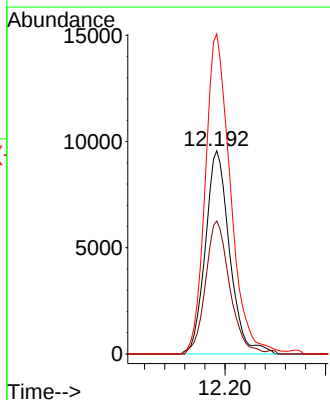
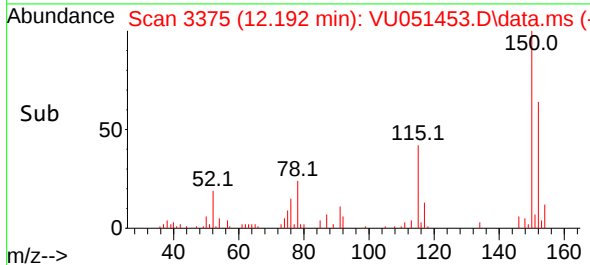
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

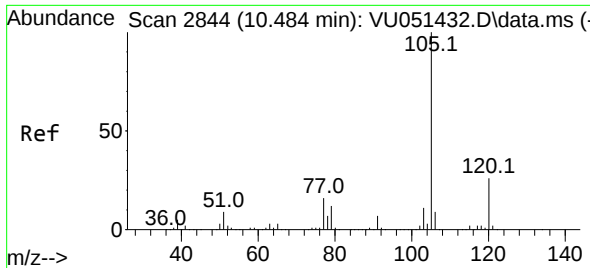


#68  
1,2-Dichlorobenzene-d4  
Concen: 0.844 ug/l  
RT: 12.192 min Scan# 3375  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



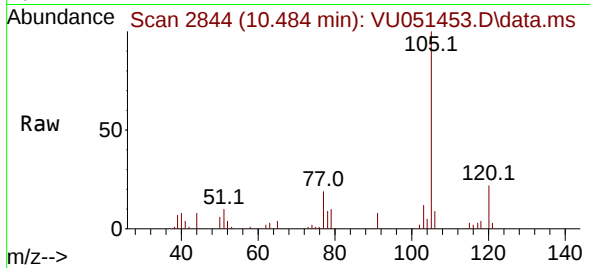
Tgt Ion:152 Resp: 15993  
Ion Ratio Lower Upper  
152 100  
115 65.4 0.0 333.0  
150 163.5 0.0 662.0





#69  
Isopropylbenzene  
Concen: 0.236 ug/l  
RT: 10.484 min Scan# 2844  
Delta R.T. 0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

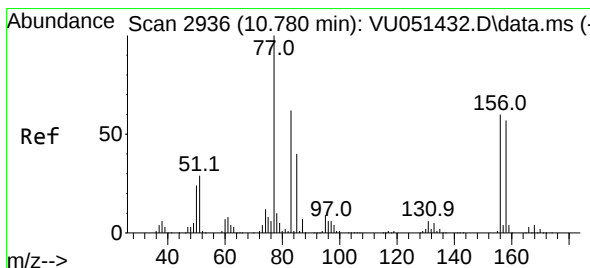
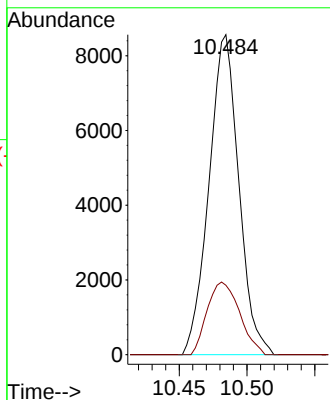
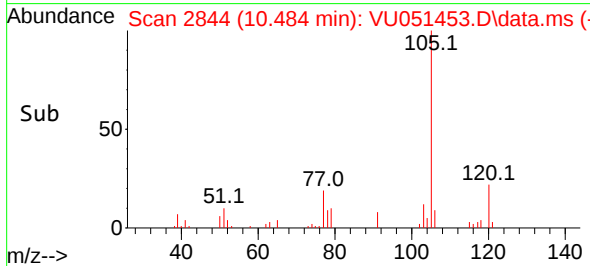
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



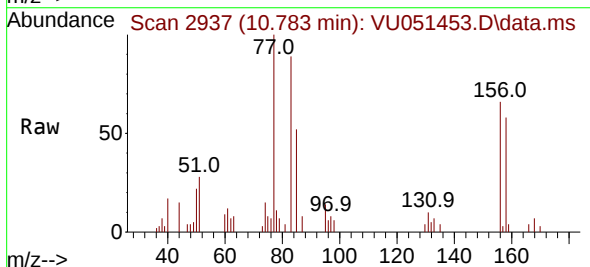
Tgt Ion:105 Resp: 13079  
Ion Ratio Lower Upper  
105 100  
120 24.7 13.0 39.0

Manual Integrations  
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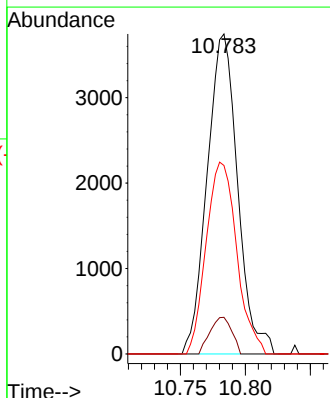
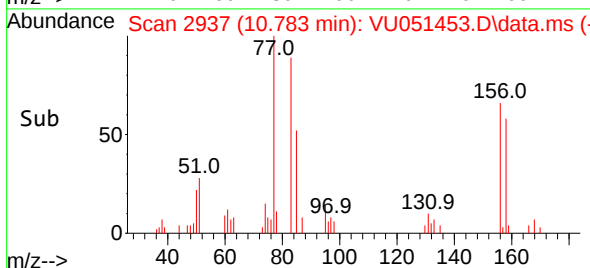
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

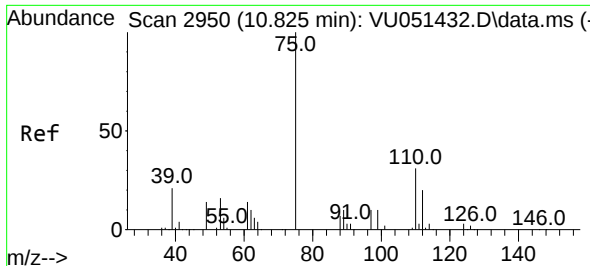


#70  
1,1,2,2-Tetrachloroethane  
Concen: 0.350 ug/l  
RT: 10.783 min Scan# 2937  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



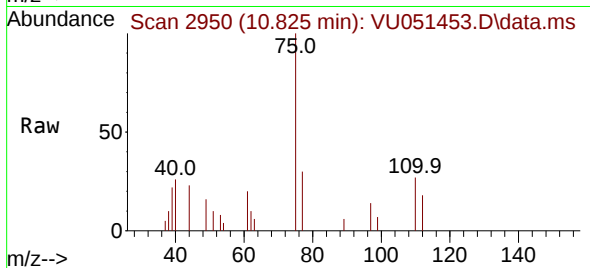
Tgt Ion: 83 Resp: 6109  
Ion Ratio Lower Upper  
83 100  
131 8.2 7.2 10.8  
85 60.1 51.4 77.2





#71  
1,2,3-Trichloropropane  
Concen: 0.332 ug/l m  
RT: 10.825 min Scan# 2950  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

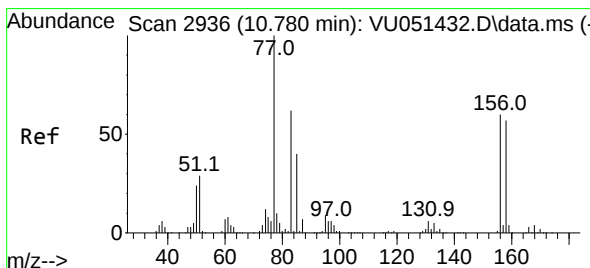
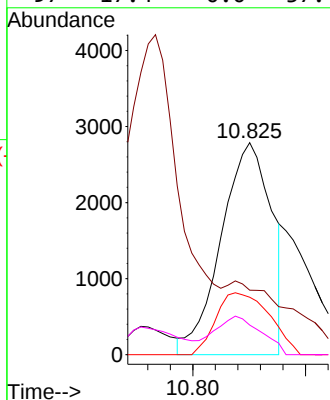
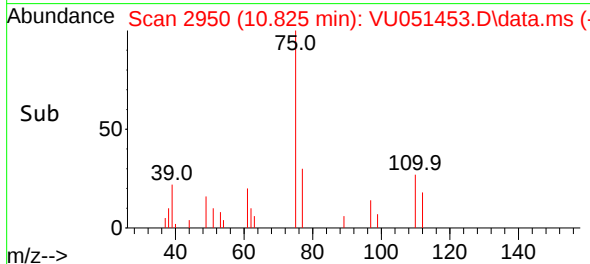
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



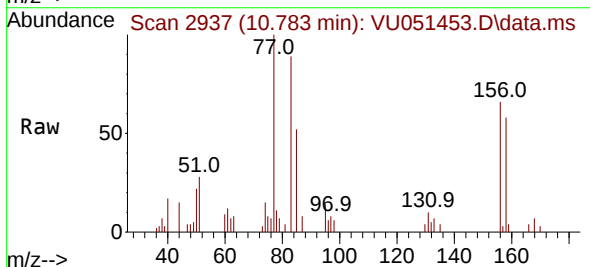
| Tgt Ion:  | 75   | Resp: | 431   |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 75        | 22.8 | 0.0   | 111.0 |
| 110       | 31.2 | 0.0   | 70.2  |
| 97        | 17.4 | 0.0   | 37.4  |

Manual Integrations  
APPROVED

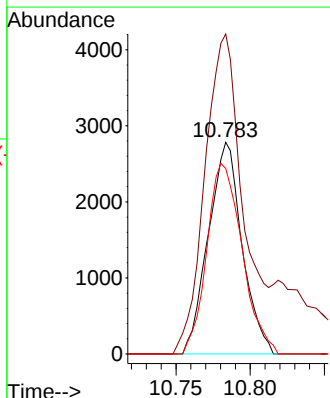
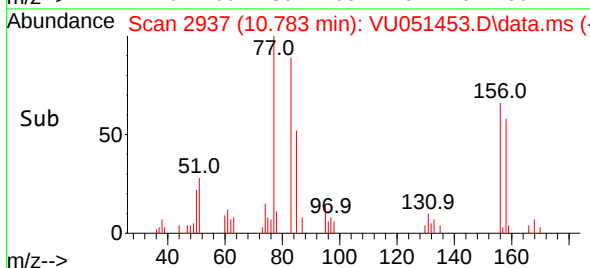
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

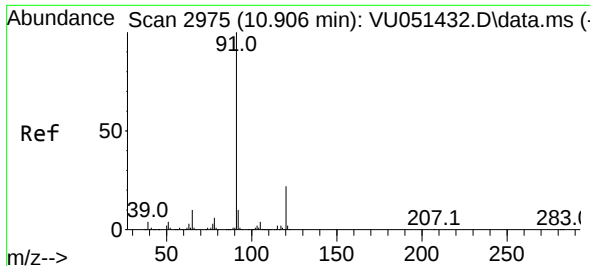


#72  
Bromobenzene  
Concen: 0.289 ug/l  
RT: 10.783 min Scan# 2937  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



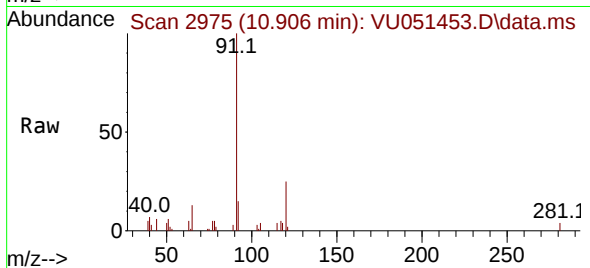
| Tgt Ion:  | 156   | Resp: | 4391  |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 77        | 170.7 | 0.0   | 343.4 |
| 158       | 94.2  | 0.0   | 195.6 |





#73  
n-propylbenzene  
Concen: 0.215 ug/l  
RT: 10.906 min Scan# 2975  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

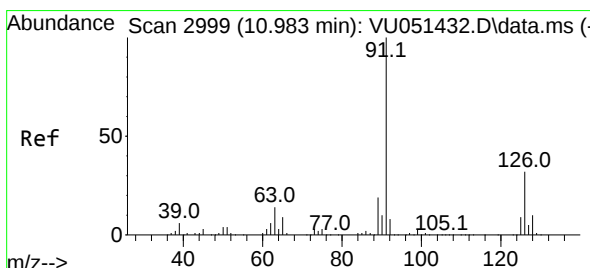
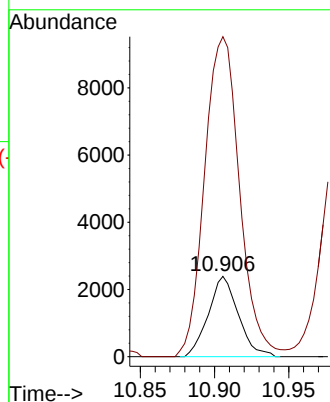
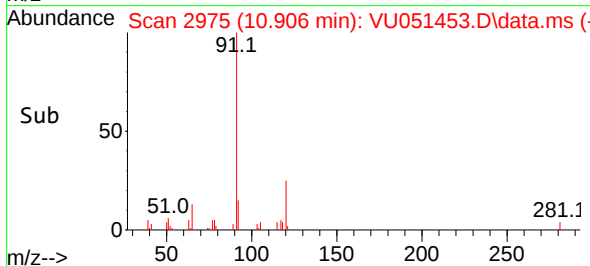
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



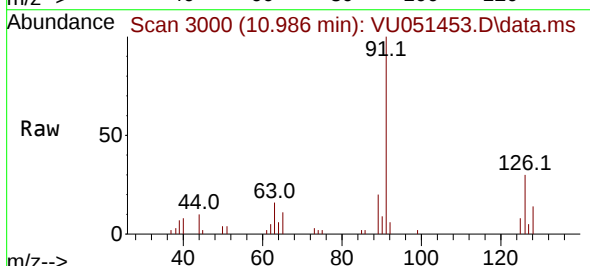
Tgt Ion:120 Resp: 335  
Ion Ratio Lower Upper  
120 100  
91 465.7 362.3 543.5

Manual Integrations  
APPROVED

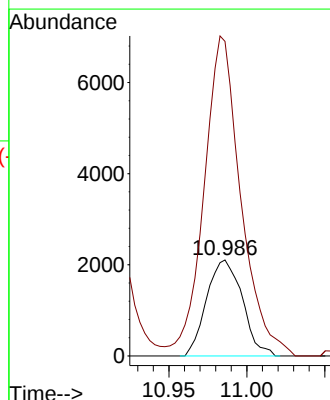
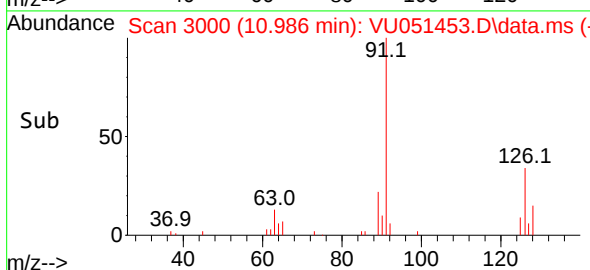
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

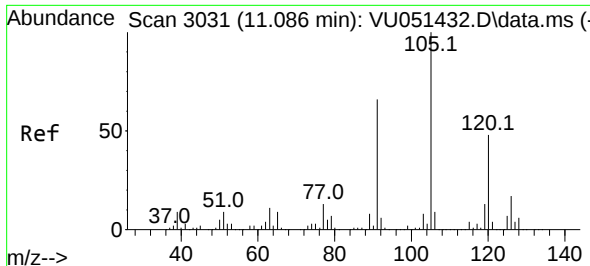


#74  
2-Chlorotoluene  
Concen: 0.227 ug/l  
RT: 10.986 min Scan# 3000  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



Tgt Ion:126 Resp: 3357  
Ion Ratio Lower Upper  
126 100  
91 343.9 0.0 623.2





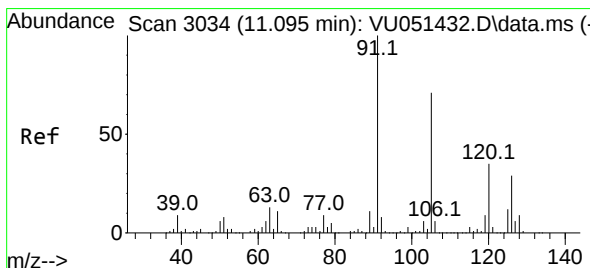
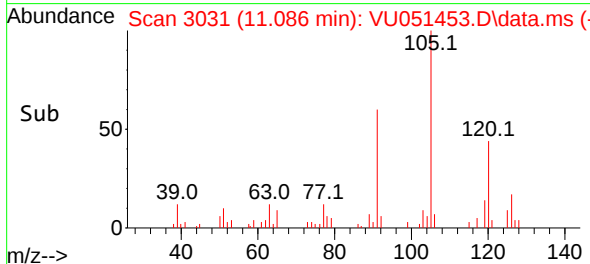
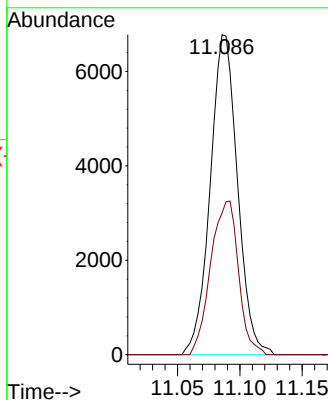
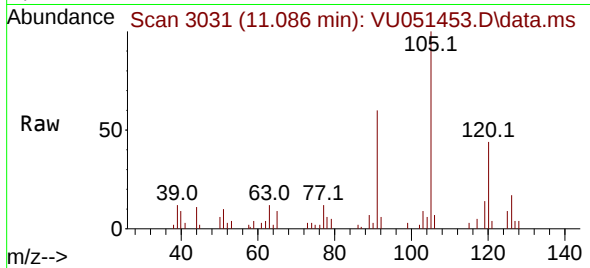
#75  
1,3,5-Trimethylbenzene  
Concen: 0.206 ug/l  
RT: 11.086 min Scan# 3031  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022

Tgt Ion:105 Resp: 1033  
Ion Ratio Lower Upper  
105 100  
120 48.7 38.2 57.4

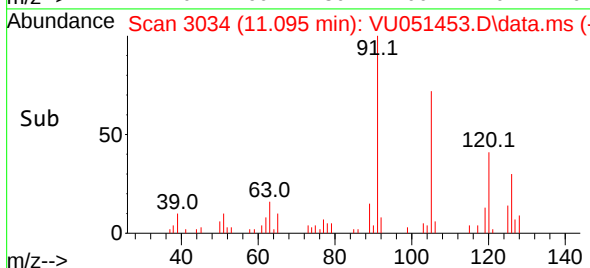
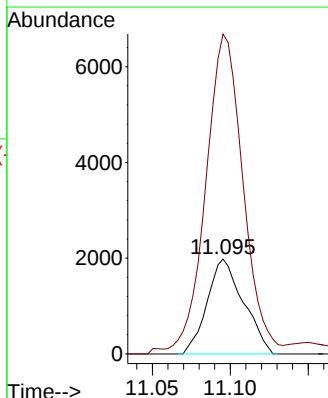
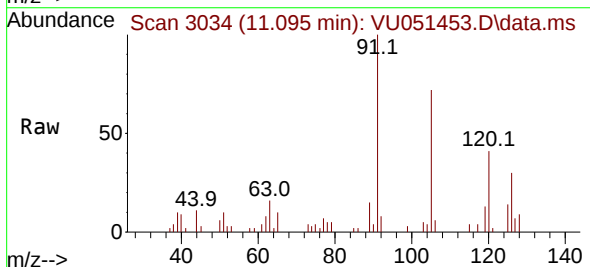
Manual Integrations  
APPROVED

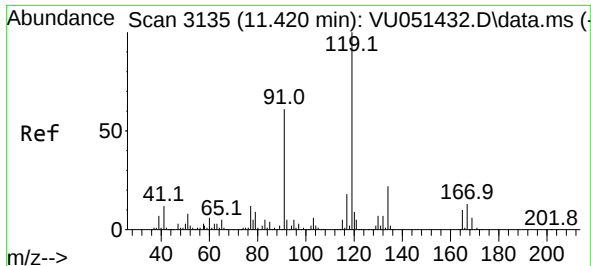
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#76  
4-Chlorotoluene  
Concen: 0.212 ug/l  
RT: 11.095 min Scan# 3034  
Delta R.T. 0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

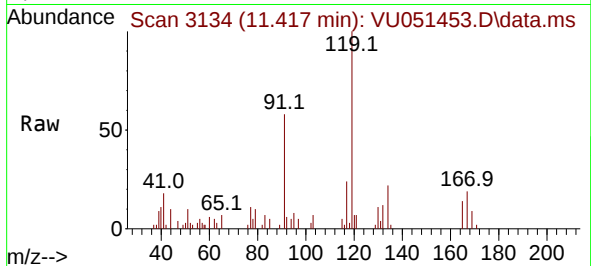
Tgt Ion:126 Resp: 3206  
Ion Ratio Lower Upper  
126 100  
91 349.2 0.0 717.6





#77  
tert-Butylbenzene  
Concen: 0.229 ug/l  
RT: 11.417 min Scan# 3135  
Delta R.T. -0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

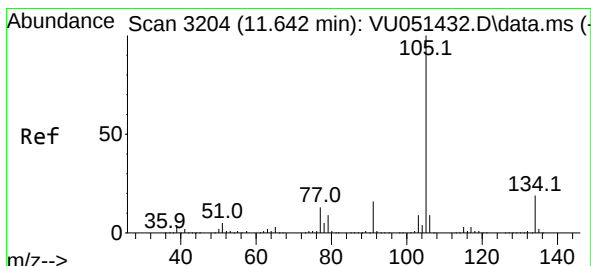
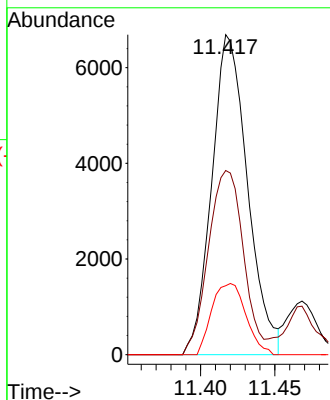
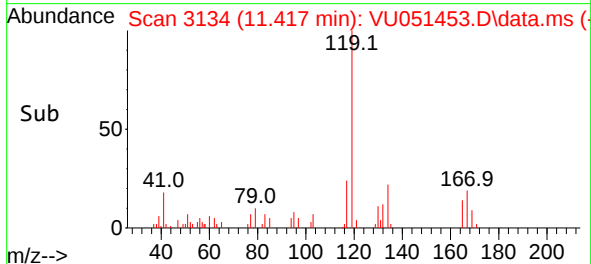
Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



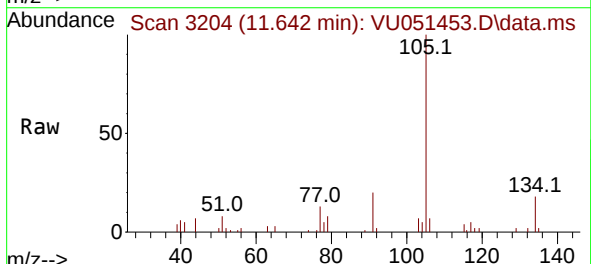
Tgt Ion:119 Resp: 11210  
Ion Ratio Lower Upper  
119 100  
91 56.8 29.8 89.5  
134 21.2 17.9 26.9

Manual Integrations  
APPROVED

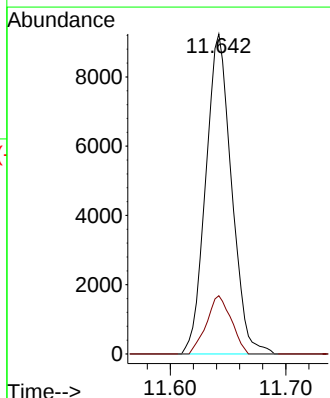
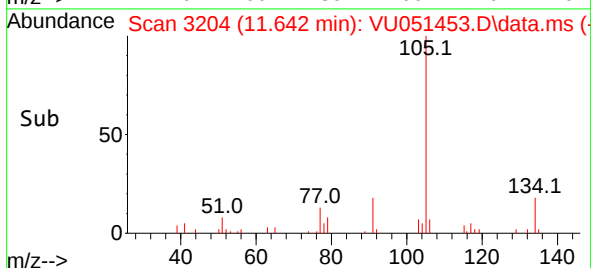
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

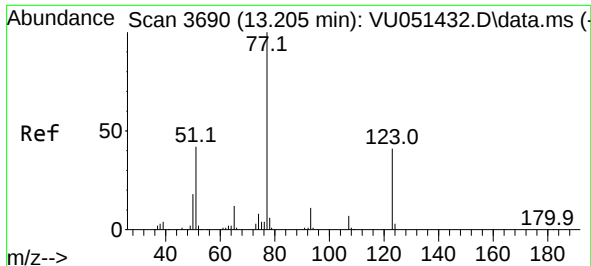


#79  
sec-Butylbenzene  
Concen: 0.221 ug/l  
RT: 11.642 min Scan# 3204  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



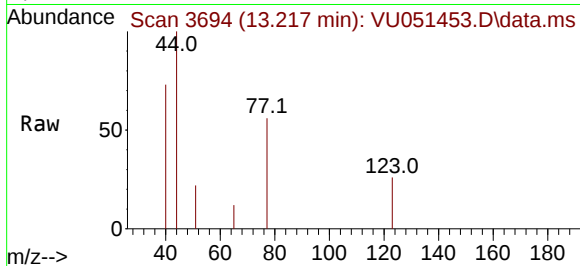
Tgt Ion:105 Resp: 14318  
Ion Ratio Lower Upper  
105 100  
134 17.4 15.2 22.8





#80  
Nitrobenzene  
Concen: 1.506 ug/l  
RT: 13.217 min Scan# 3694  
Delta R.T. 0.013 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

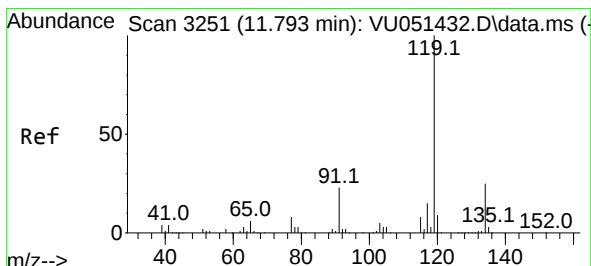
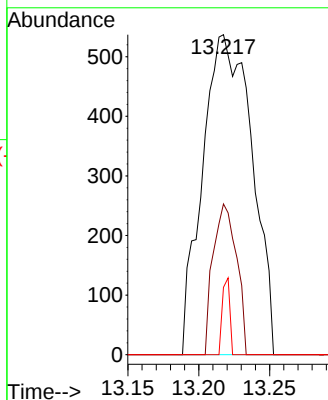
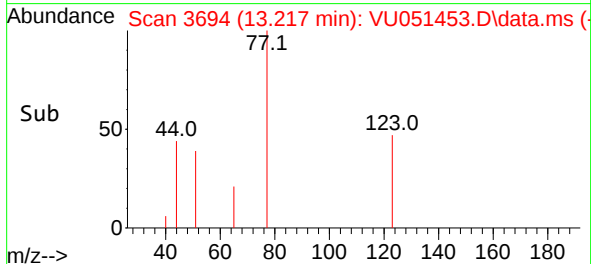
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 130   |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 22.3  | 17.5  | 62.1  |
| 65       | 3.6   | 11.1  | 14.1  |

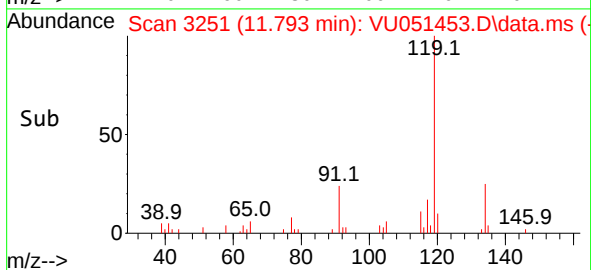
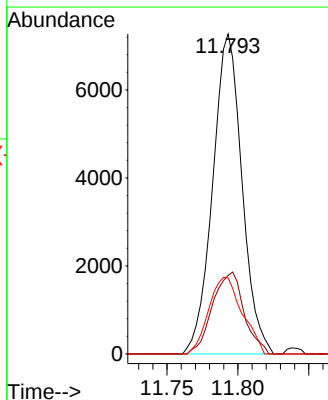
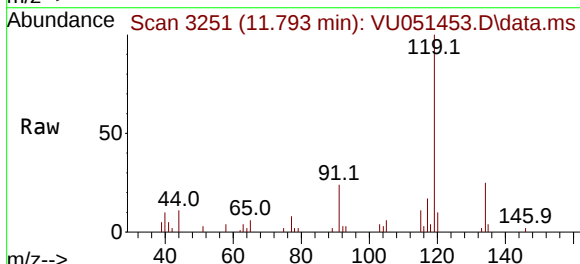
Manual Integrations  
APPROVED

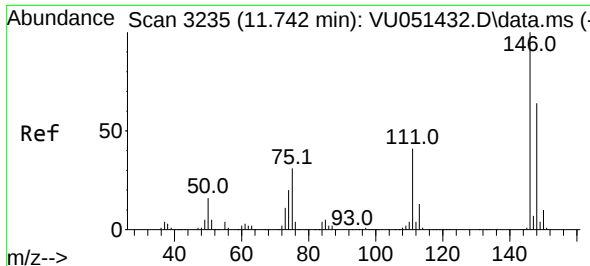
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#81  
p-Isopropyltoluene  
Concen: 0.201 ug/l  
RT: 11.793 min Scan# 3251  
Delta R.T. 0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

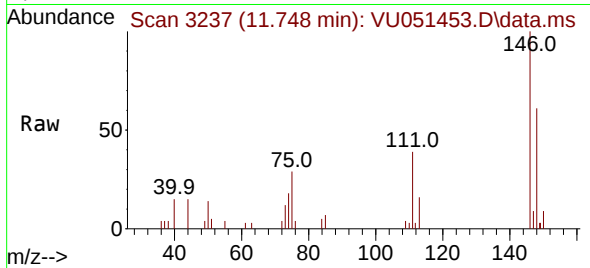
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 10464 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 27.5  | 20.3  | 30.5  |
| 91       | 27.3  | 18.6  | 27.8  |





#82  
1,3-Dichlorobenzene  
Concen: 0.267 ug/l  
RT: 11.748 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

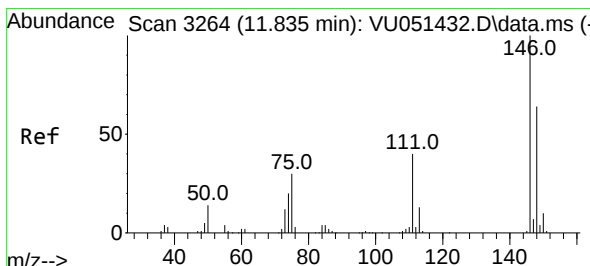
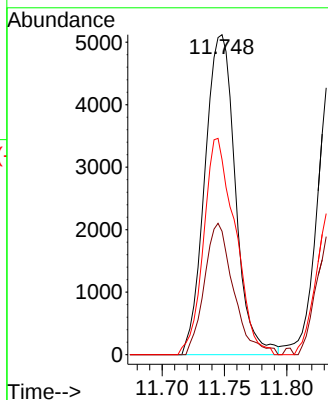
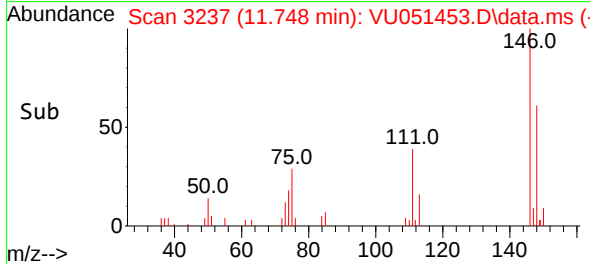
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



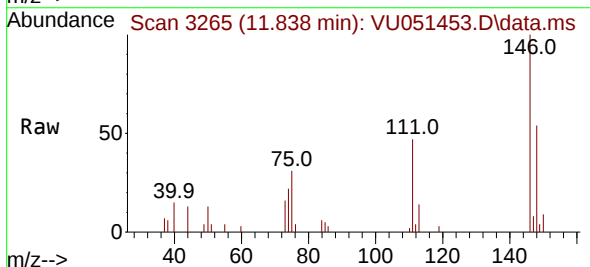
Tgt Ion:146 Resp: 8730  
Ion Ratio Lower Upper  
146 100  
111 39.2 33.4 50.0  
148 70.0 51.0 76.6

Manual Integrations  
APPROVED

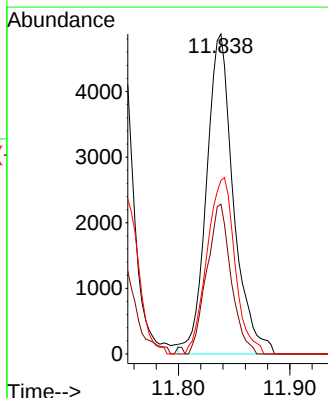
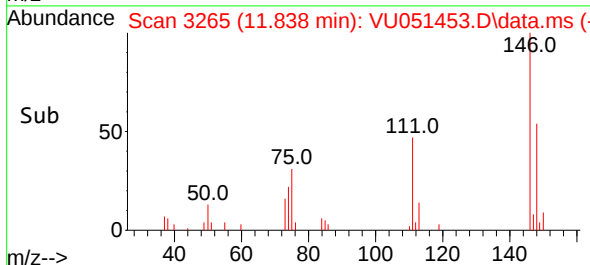
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

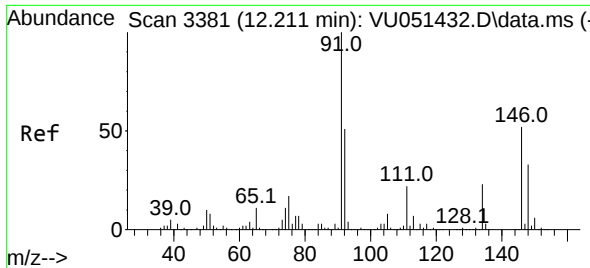


#83  
1,4-Dichlorobenzene  
Concen: 0.256 ug/l  
RT: 11.838 min Scan# 3265  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



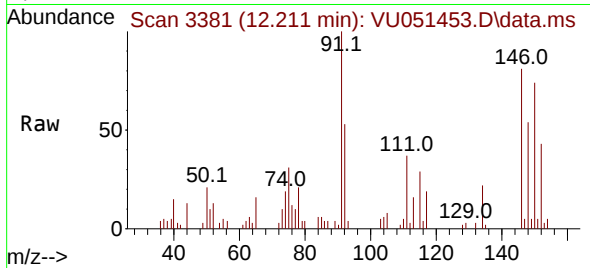
Tgt Ion:146 Resp: 8198  
Ion Ratio Lower Upper  
146 100  
111 42.0 31.6 47.4  
148 57.0 50.5 75.7





#85  
1,2-Dichlorobenzene  
Concen: 0.254 ug/l  
RT: 12.211 min Scan# 3381  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

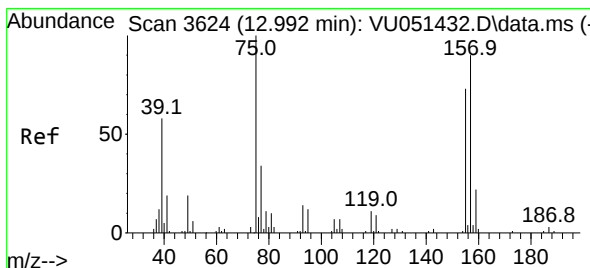
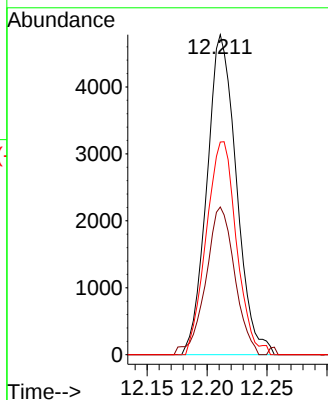
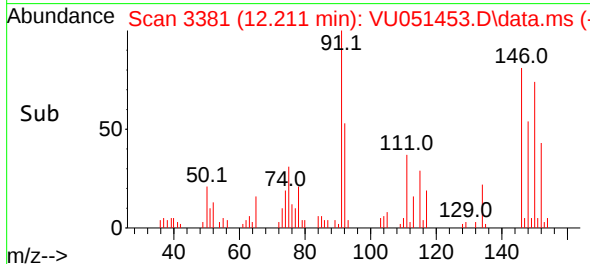
Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



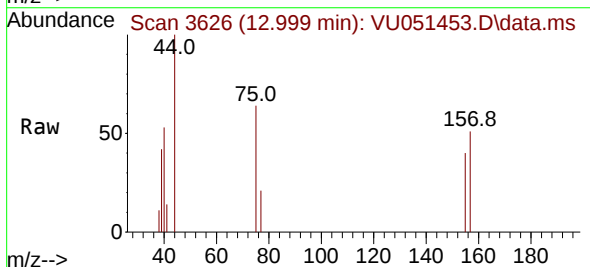
Tgt Ion:146 Resp: 817  
Ion Ratio Lower Upper  
146 100  
111 45.1 21.3 63.9  
148 68.2 31.8 95.4

Manual Integrations  
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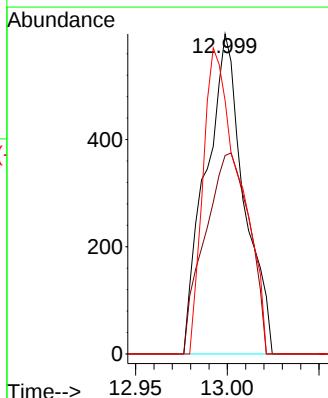
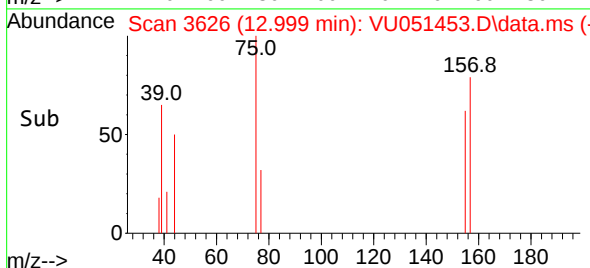
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

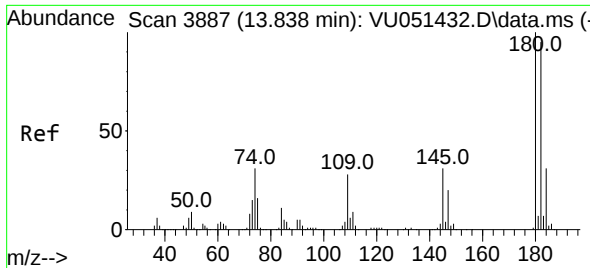


#86  
1,2-Dibromo-3-Chloropropane  
Concen: 0.315 ug/l  
RT: 12.999 min Scan# 3626  
Delta R.T. 0.006 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



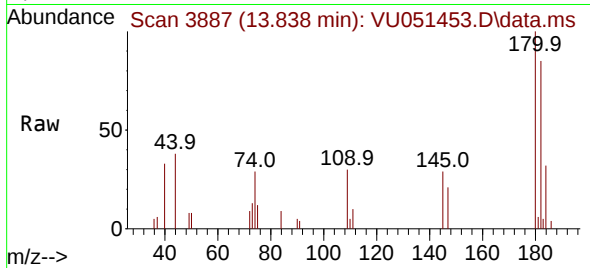
Tgt Ion: 75 Resp: 861  
Ion Ratio Lower Upper  
75 100  
155 73.4 58.5 87.7  
157 91.8 75.3 112.9





#87  
1,2,4-Trichlorobenzene  
Concen: 0.251 ug/l  
RT: 13.838 min Scan# 3887  
Delta R.T. -0.000 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

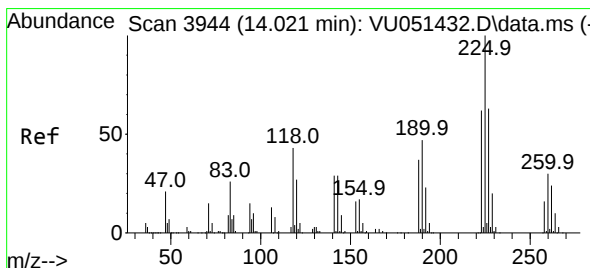
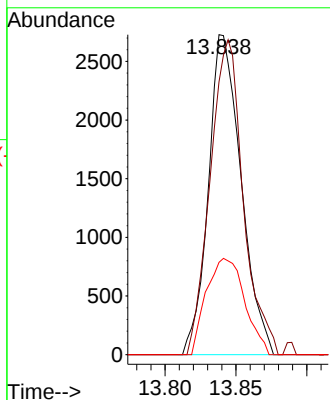
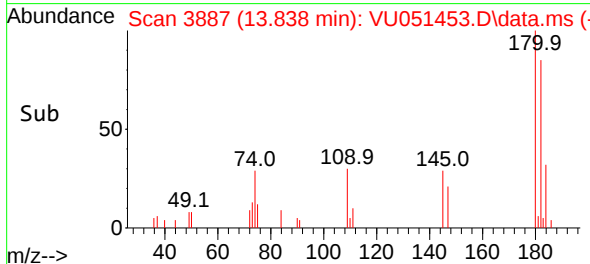
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



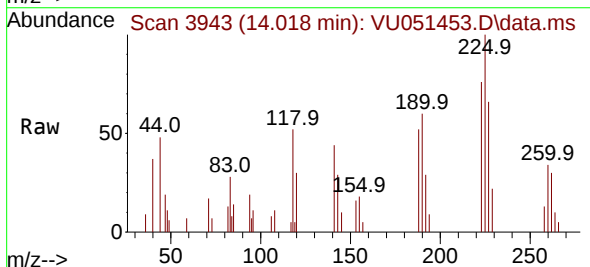
Tgt Ion:180 Resp: 4385  
Ion Ratio Lower Upper  
180 100  
182 99.5 75.9 113.9  
145 35.2 24.9 37.3

Manual Integrations  
APPROVED

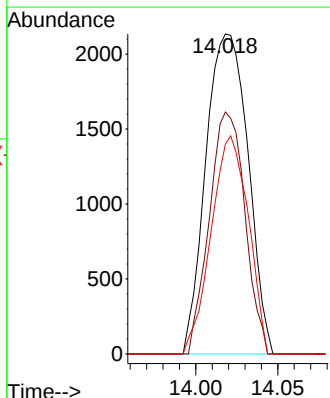
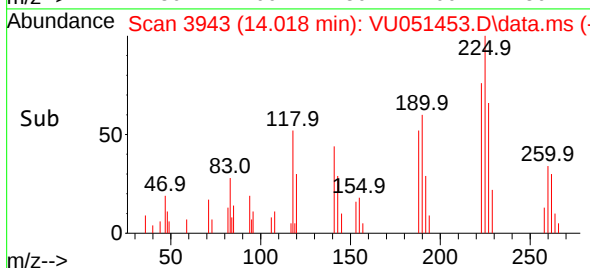
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022

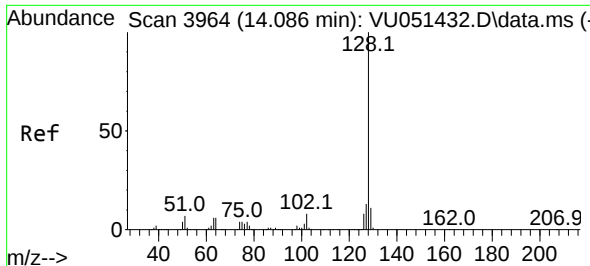


#88  
Hexachlorobutadiene  
Concen: 0.335 ug/l  
RT: 14.018 min Scan# 3943  
Delta R.T. -0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



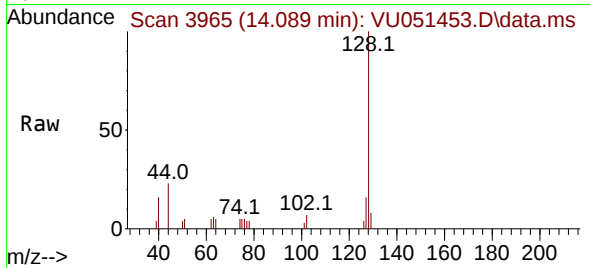
Tgt Ion:225 Resp: 3816  
Ion Ratio Lower Upper  
225 100  
223 63.9 50.1 75.1  
227 60.0 51.4 77.2





#89  
Naphthalene  
Concen: 0.211 ug/l  
RT: 14.089 min Scan# 3964  
Delta R.T. 0.003 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53

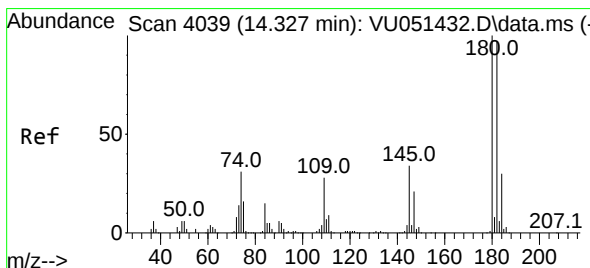
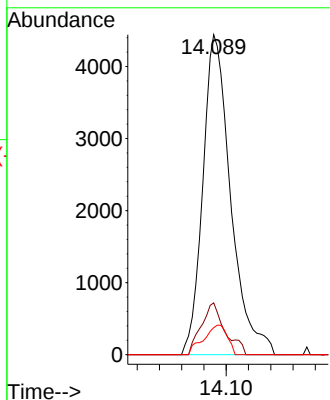
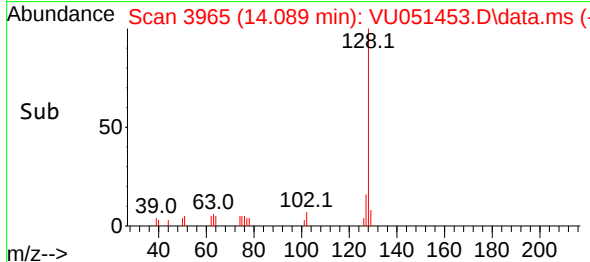
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



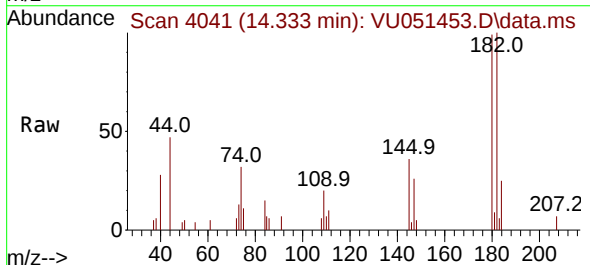
Tgt Ion:128 Resp: 7718  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.7 16.1  
129 7.8 8.4 12.6

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/25/2022



#90  
1,2,3-Trichlorobenzene  
Concen: 0.222 ug/l  
RT: 14.333 min Scan# 4041  
Delta R.T. 0.006 min  
Lab File: VU051453.D  
Acq: 19 Oct 2022 12:53



Tgt Ion:180 Resp: 4240  
Ion Ratio Lower Upper  
180 100  
182 99.3 75.8 113.6  
145 32.2 26.6 39.8

