

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101922\  
 Data File : VU051452.D  
 Acq On : 19 Oct 2022 12:27  
 Operator : JC/MD  
 Sample : N4955-09 0.25PPB  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Oct 20 07:38:29 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 10/20/2022

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.115  | 96   | 52517    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.632 | 95   | 14803    | 0.804 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 80.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.192 | 152  | 18573    | 0.903 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 90.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.385  | 85   | 9476     | 0.517 | ug/l    | 92       |
| 3) Chloromethane             | 1.533  | 50   | 14280    | 0.494 | ug/l    | 97       |
| 4) Vinyl Chloride            | 1.604  | 62   | 11887    | 0.475 | ug/l    | 96       |
| 5) Bromomethane              | 1.858  | 94   | 8541     | 0.612 | ug/l    | 93       |
| 6) Chloroethane              | 1.935  | 64   | 7073     | 0.496 | ug/l    | 99       |
| 7) Trichlorofluoromethane    | 2.138  | 101  | 13850    | 0.496 | ug/l    | 92       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.585  | 101  | 7801     | 0.506 | ug/l    | 95       |
| 9) 1,1-Dichloroethene        | 2.581  | 96   | 8657     | 0.537 | ug/l    | 92       |
| 10) Iodomethane              | 2.723  | 142  | 10103    | 0.484 | ug/l    | 90       |
| 11) Allyl Chloride           | 2.922  | 41   | 11456    | 0.466 | ug/l    | # 83     |
| 12) Acrylonitrile            | 3.324  | 53   | 5484     | 1.156 | ug/l    | # 94     |
| 13) Acetone                  | 2.646  | 43   | 9969     | 2.919 | ug/l    | 93       |
| 14) Carbon Disulfide         | 2.794  | 76   | 29281    | 0.510 | ug/l    | 99       |
| 15) Methylene Chloride       | 3.044  | 84   | 19173    | 0.812 | ug/l    | 96       |
| 16) trans-1,2-Dichloroethene | 3.347  | 96   | 9656     | 0.522 | ug/l    | 93       |
| 17) 1,1-Dichloroethane       | 3.867  | 63   | 16718    | 0.503 | ug/l    | 100      |
| 18) 2-Butanone               | 4.736  | 43   | 10001    | 2.413 | ug/l    | 89       |
| 19) Cyclohexane              | 5.388  | 56   | 8097m    | 0.393 | ug/l    |          |
| 20) Methylcyclohexane        | 6.764  | 83   | 7095     | 0.347 | ug/l    | 95       |
| 21) 2,2-Dichloropropane      | 4.662  | 77   | 11101    | 0.478 | ug/l    | 98       |
| 22) cis-1,2-Dichloroethene   | 4.668  | 96   | 8802     | 0.503 | ug/l    | 91       |
| 23) Diethyl Ether            | 2.379  | 59   | 7229     | 0.514 | ug/l    | 91       |
| 24) tert-Butyl Alcohol       | 3.231  | 59   | 7099     | 4.810 | ug/l    | # 85     |
| 25) Methyl tert-Butyl Ether  | 3.366  | 73   | 21803    | 0.520 | ug/l    | 95       |
| 26) Bromochloromethane       | 4.973  | 128  | 4102     | 0.481 | ug/l    | 96       |
| 27) Chloroform               | 5.086  | 83   | 16962    | 0.504 | ug/l    | 96       |
| 28) 1,1,1-Trichloroethane    | 5.318  | 97   | 13407    | 0.499 | ug/l    | 94       |
| 29) 1,1-Dichloropropene      | 5.523  | 75   | 8776     | 0.427 | ug/l    | 95       |
| 30) Carbon Tetrachloride     | 5.520  | 117  | 11103    | 0.490 | ug/l    | 94       |
| 31) Isopropyl Ether          | 3.996  | 45   | 18323    | 0.466 | ug/l    | 90       |
| 32) Ethyl-t-butyl ether      | 4.504  | 59   | 15881    | 0.443 | ug/l    | 98       |
| 33) Tert-Amyl methyl ether   | 5.945  | 73   | 13109    | 0.416 | ug/l    | 99       |
| 34) Propionitrile            | 4.813  | 54   | 3238     | 2.324 | ug/l    | # 90     |
| 35) Benzene                  | 5.774  | 78   | 30478    | 0.441 | ug/l    | 100      |
| 36) 1,2-Dichloroethane       | 5.800  | 62   | 10886    | 0.511 | ug/l    | 95       |
| 37) Trichloroethene          | 6.543  | 130  | 7336     | 0.453 | ug/l    | 92       |
| 38) 1,2-Dichloropropane      | 6.793  | 63   | 9022     | 0.476 | ug/l    | 98       |
| 39) Methacrylonitrile        | 4.986  | 41   | 2226     | 0.468 | ug/l    | # 79     |
| 40) Methyl acrylate          | 4.861  | 55   | 3200     | 0.421 | ug/l    | # 71     |
| 41) Tetrahydrofuran          | 5.076  | 42   | 2209     | 0.883 | ug/l    | 92       |
| 42) 1-Chlorobutane           | 5.459  | 56   | 12047    | 0.429 | ug/l    | 90       |
| 43) Dibromomethane           | 6.922  | 93   | 4177     | 0.425 | ug/l    | 89       |
| 44) Bromodichloromethane     | 7.105  | 83   | 10942    | 0.460 | ug/l    | 99       |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
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Quant Time: Oct 20 07:38:29 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

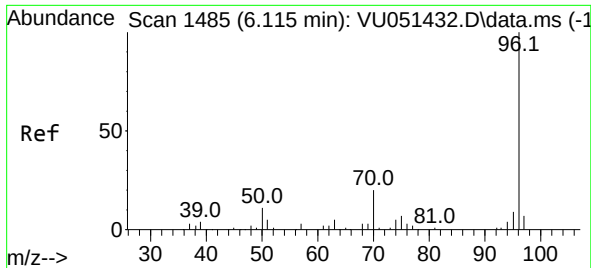
### Manual Integrations APPROVED

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

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.800  | 43   | 18545    | 1.982 | ug/l   | 92       |
| 46) t-1,4-Dichloro-2-butene   | 10.832 | 75   | 4124m    | 0.790 | ug/l   |          |
| 47) Methyl methacrylate       | 6.964  | 69   | 5634     | 0.750 | ug/l   | 95       |
| 48) Ethyl methacrylate        | 8.337  | 69   | 4592     | 0.365 | ug/l   | 87       |
| 49) Toluene                   | 7.970  | 92   | 13280    | 0.351 | ug/l   | 90       |
| 50) t-1,3-Dichloropropene     | 8.215  | 75   | 7949     | 0.416 | ug/l   | 98       |
| 51) cis-1,3-Dichloropropene   | 7.610  | 75   | 9932     | 0.440 | ug/l   | 97       |
| 52) 1,1,2-Trichloroethane     | 8.401  | 97   | 7053     | 0.503 | ug/l   | 88       |
| 53) 1,3-Dichloropropane       | 8.578  | 76   | 9791     | 0.433 | ug/l   | 99       |
| 54) 2-Hexanone                | 8.690  | 43   | 11934    | 1.855 | ug/l   | 97       |
| 55) Dibromochloromethane      | 8.809  | 129  | 6637     | 0.435 | ug/l   | 96       |
| 56) 1,2-Dibromoethane         | 8.928  | 107  | 5619     | 0.455 | ug/l   | 95       |
| 58) Tetrachloroethene         | 8.552  | 164  | 5813     | 0.412 | ug/l   | 93       |
| 59) Chlorobenzene             | 9.449  | 112  | 17046    | 0.410 | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.533  | 131  | 7268     | 0.456 | ug/l   | 98       |
| 61) Pentachloroethane         | 11.423 | 117  | 6027     | 0.425 | ug/l   | 92       |
| 62) Hexachloroethane          | 12.472 | 117  | 5231     | 0.388 | ug/l   | 95       |
| 63) Ethyl Benzene             | 9.568  | 91   | 21022    | 0.334 | ug/l   | 97       |
| 64) m/p-Xylenes               | 9.694  | 106  | 14999    | 0.597 | ug/l   | 99       |
| 65) o-Xylene                  | 10.102 | 106  | 7375     | 0.302 | ug/l   | 95       |
| 66) Styrene                   | 10.115 | 104  | 11861    | 0.293 | ug/l   | 98       |
| 67) Bromoform                 | 10.292 | 173  | 4104     | 0.479 | ug/l # | 84       |
| 69) Isopropylbenzene          | 10.481 | 105  | 18232    | 0.303 | ug/l   | 97       |
| 70) 1,1,2,2-Tetrachloroethane | 10.784 | 83   | 8406     | 0.443 | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane    | 10.832 | 75   | 4960m    | 0.352 | ug/l   |          |
| 72) Bromobenzene              | 10.784 | 156  | 6015     | 0.364 | ug/l   | 94       |
| 73) n-propylbenzene           | 10.906 | 120  | 4693     | 0.277 | ug/l   | 97       |
| 74) 2-Chlorotoluene           | 10.986 | 126  | 4936     | 0.307 | ug/l   | 100      |
| 75) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 14557    | 0.267 | ug/l   | 99       |
| 76) 4-Chlorotoluene           | 11.099 | 126  | 4695     | 0.285 | ug/l   | 93       |
| 77) tert-Butylbenzene         | 11.420 | 119  | 16438    | 0.309 | ug/l   | 92       |
| 78) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 13973    | 0.246 | ug/l   | 95       |
| 79) sec-Butylbenzene          | 11.642 | 105  | 18683    | 0.265 | ug/l   | 98       |
| 80) Nitrobenzene              | 13.211 | 77   | 1940m    | 2.064 | ug/l   |          |
| 81) p-Isopropyltoluene        | 11.793 | 119  | 13617    | 0.241 | ug/l   | 96       |
| 82) 1,3-Dichlorobenzene       | 11.745 | 146  | 12091    | 0.341 | ug/l   | 97       |
| 83) 1,4-Dichlorobenzene       | 11.838 | 146  | 12437    | 0.358 | ug/l   | 94       |
| 84) n-Butylbenzene            | 12.211 | 91   | 14154    | 0.253 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene       | 12.211 | 146  | 12281    | 0.351 | ug/l   | 99       |
| 86) 1,2-Dibromo-3-Chloropr... | 13.002 | 75   | 1153     | 0.388 | ug/l   | 91       |
| 87) 1,2,4-Trichlorobenzene    | 13.845 | 180  | 6116     | 0.323 | ug/l   | 96       |
| 88) Hexachlorobutadiene       | 14.021 | 225  | 4628     | 0.375 | ug/l   | 100      |
| 89) Naphthalene               | 14.092 | 128  | 12226    | 0.308 | ug/l # | 96       |
| 90) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 6413     | 0.309 | ug/l   | 92       |

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





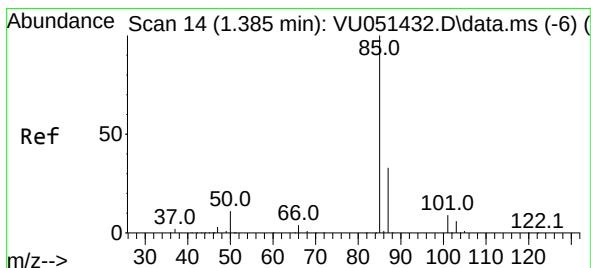
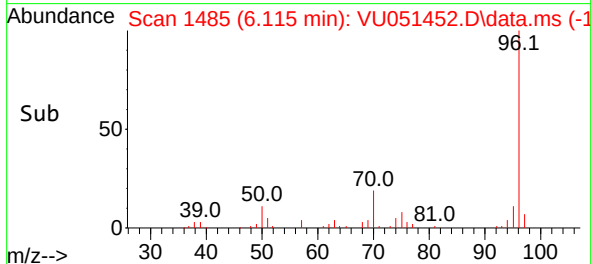
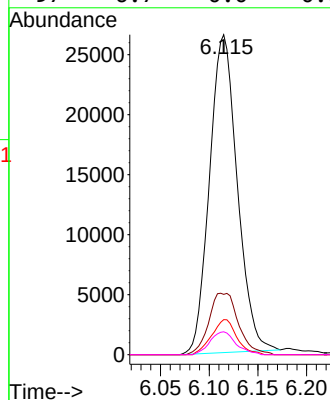
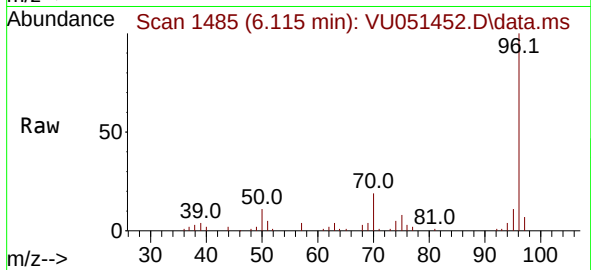
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Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.115 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

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

Tgt Ion: 96 Resp: 5251  
Ion Ratio Lower Upper  
96 100  
70 20.6 16.7 25.1  
95 10.0 7.5 11.3  
97 6.7 0.0 0.0#

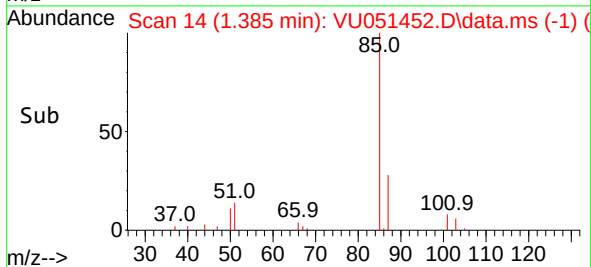
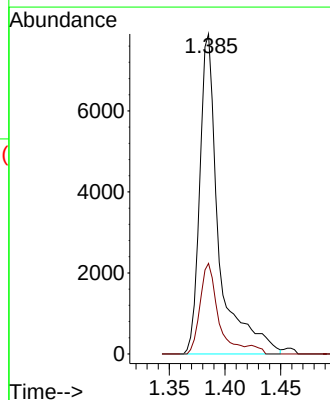
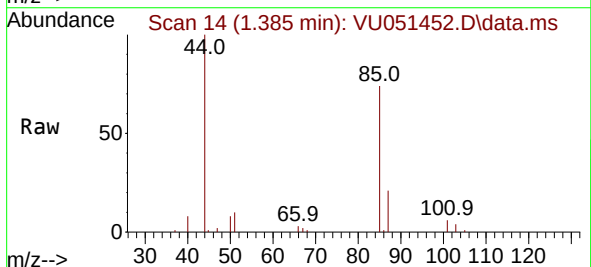
Manual Integrations  
APPROVED

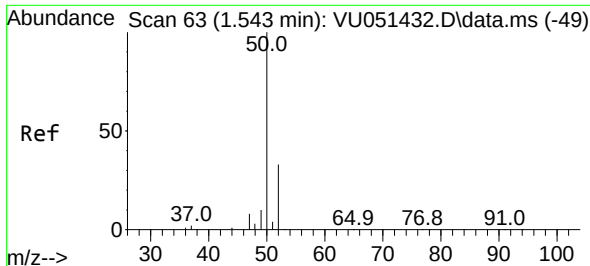
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#2  
Dichlorodifluoromethane  
Concen: 0.517 ug/l  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

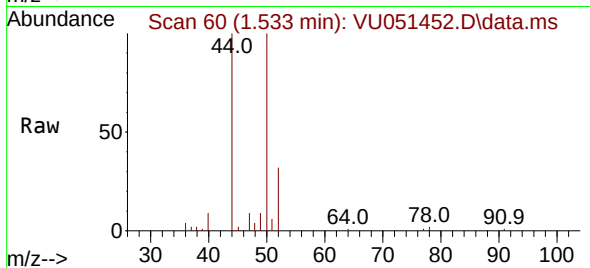
Tgt Ion: 85 Resp: 9476  
Ion Ratio Lower Upper  
85 100  
87 28.3 16.4 49.4





#3  
Chloromethane  
Concen: 0.494 ug/l  
RT: 1.533 min Scan# 60  
Delta R.T. -0.010 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

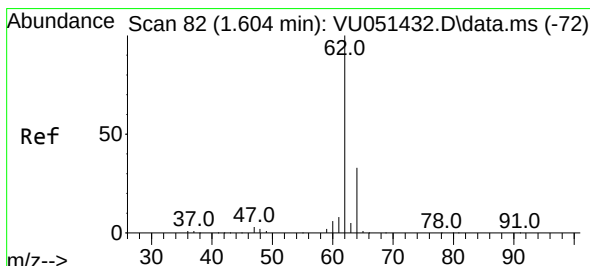
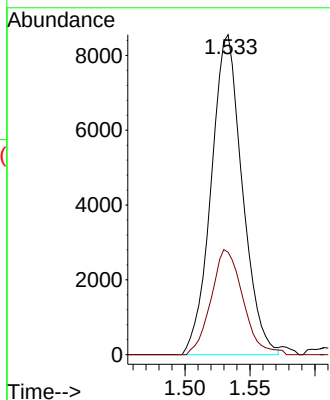
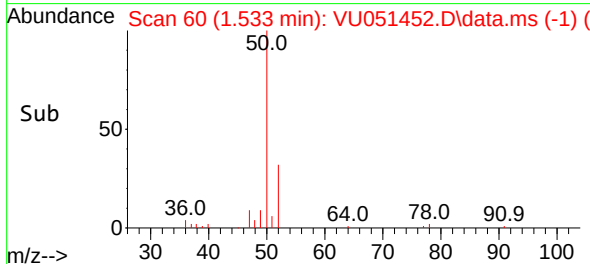
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 50 Resp: 14280  
Ion Ratio Lower Upper  
50 100  
52 32.0 26.7 40.1

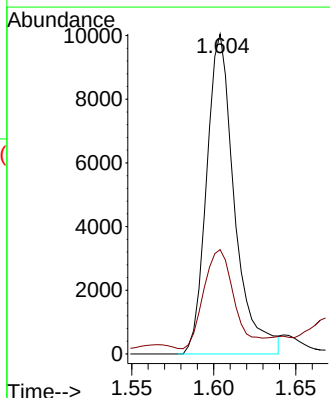
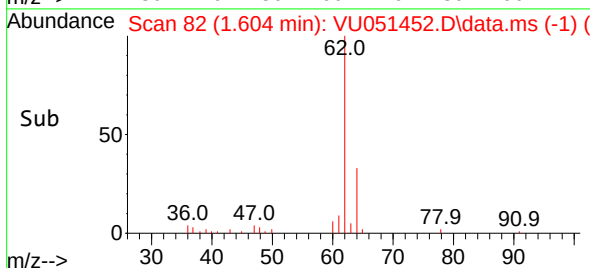
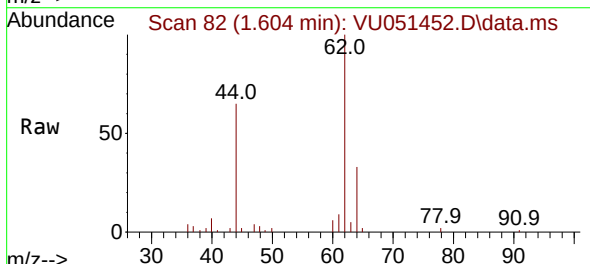
Manual Integrations  
APPROVED

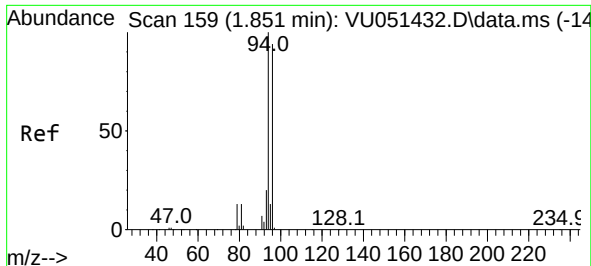
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#4  
Vinyl Chloride  
Concen: 0.475 ug/l  
RT: 1.604 min Scan# 82  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

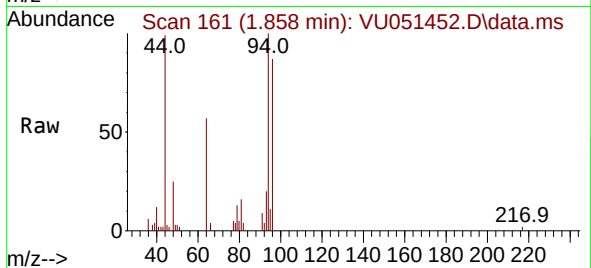
Tgt Ion: 62 Resp: 11887  
Ion Ratio Lower Upper  
62 100  
64 30.9 26.7 40.1





#5  
Bromomethane  
Concen: 0.612 ug/l  
RT: 1.858 min Scan# 10  
Delta R.T. 0.007 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

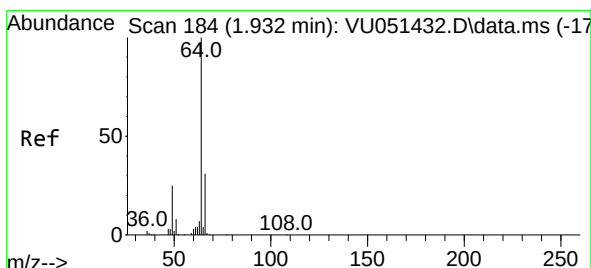
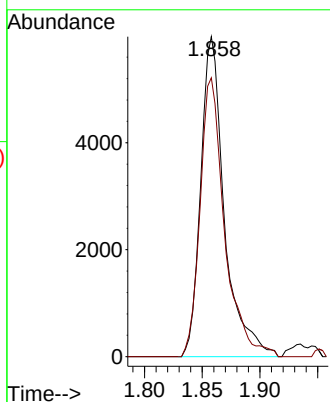
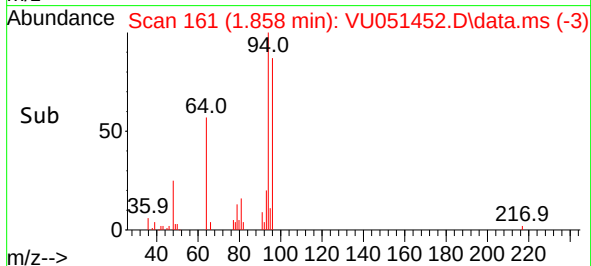
Instrument :  
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ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 94 Resp: 854  
Ion Ratio Lower Upper  
94 100  
96 87.1 74.8 112.2

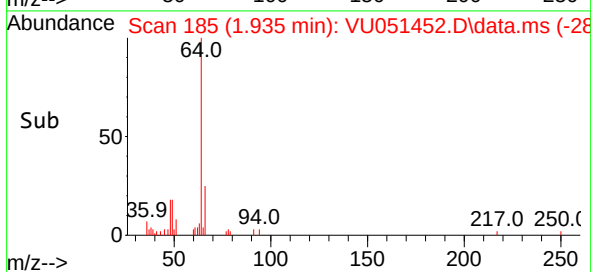
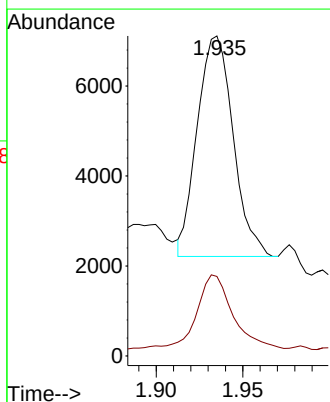
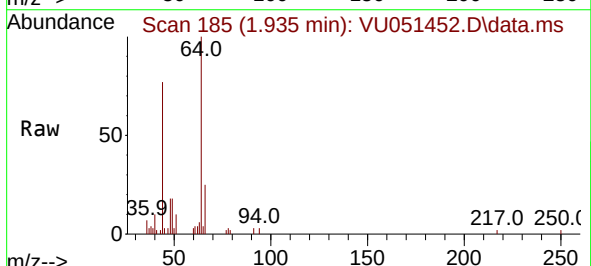
Manual Integrations  
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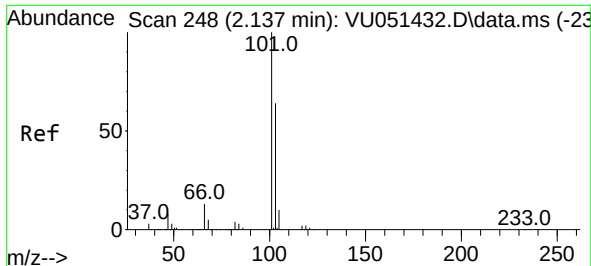
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#6  
Chloroethane  
Concen: 0.496 ug/l  
RT: 1.935 min Scan# 185  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

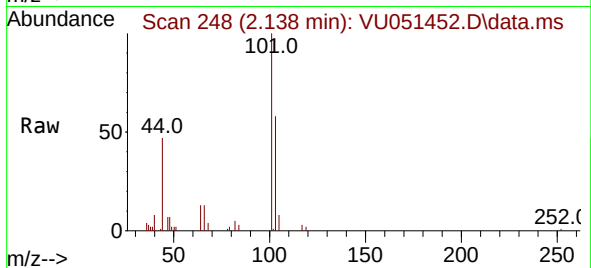
Tgt Ion: 64 Resp: 7073  
Ion Ratio Lower Upper  
64 100  
66 32.0 25.2 37.8





#7  
 Trichlorofluoromethane  
 Concen: 0.496 ug/l  
 RT: 2.138 min Scan# 248  
 Delta R.T. 0.000 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27

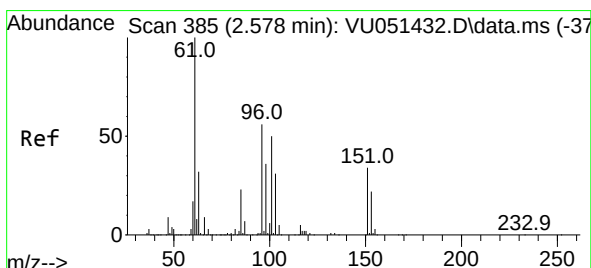
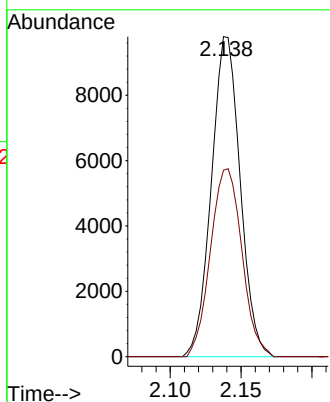
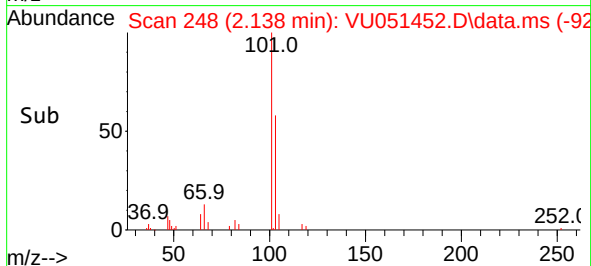
Instrument :  
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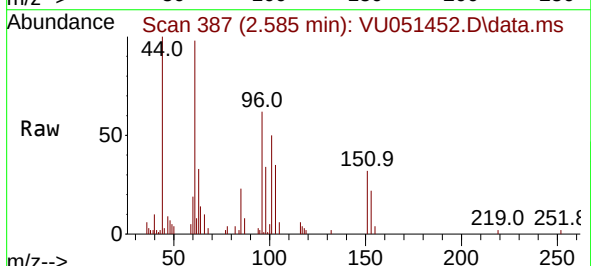
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 Ion Ratio Lower Upper  
 101 100  
 103 58.3 51.4 77.2

Manual Integrations  
 APPROVED

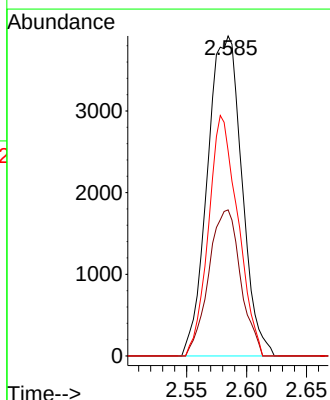
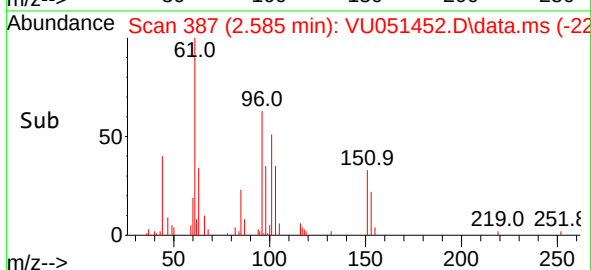
Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/20/2022

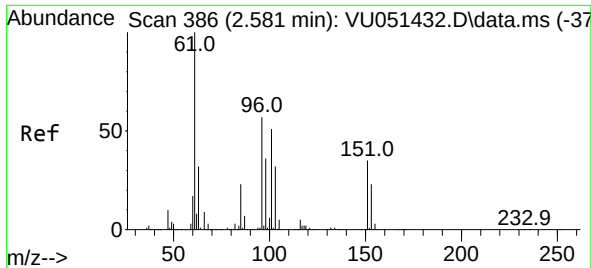


#8  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.506 ug/l  
 RT: 2.585 min Scan# 387  
 Delta R.T. 0.007 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27



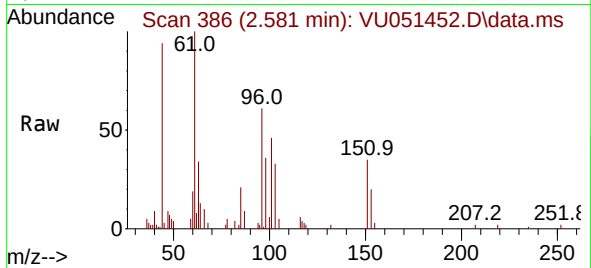
Tgt Ion:101 Resp: 7801  
 Ion Ratio Lower Upper  
 101 100  
 85 42.3 36.6 54.8  
 151 64.3 54.6 81.8





#9  
1,1-Dichloroethene  
Concen: 0.537 ug/l  
RT: 2.581 min Scan# 386  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

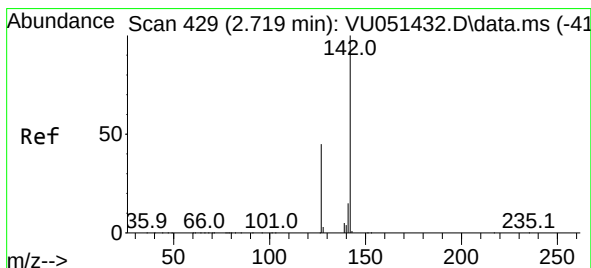
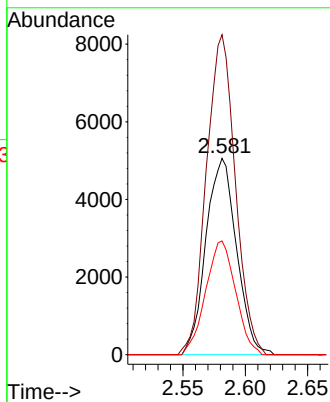
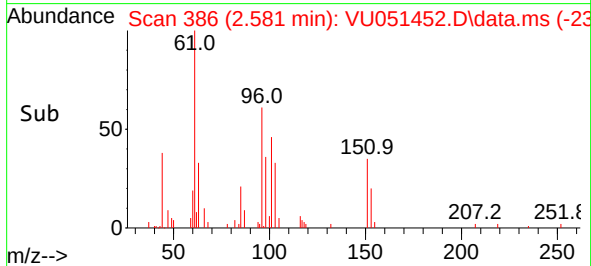
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 96 Resp: 865  
Ion Ratio Lower Upper  
96 100  
61 163.0 0.0 522.3  
98 57.9 0.0 126.6

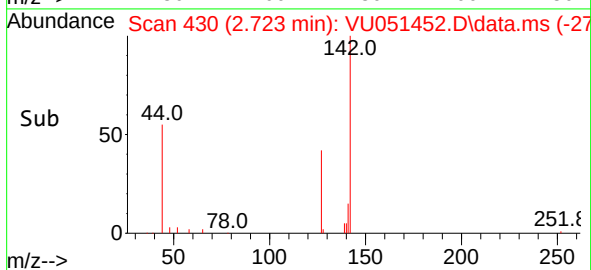
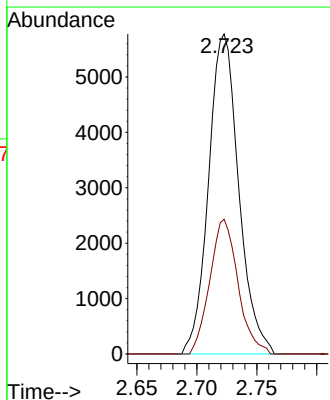
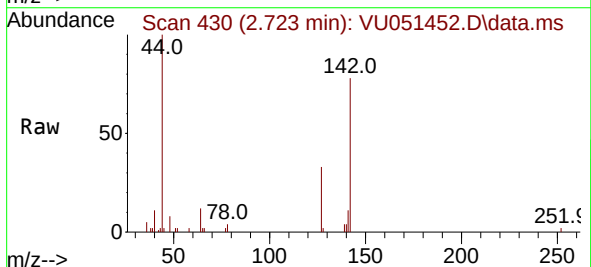
Manual Integrations  
APPROVED

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

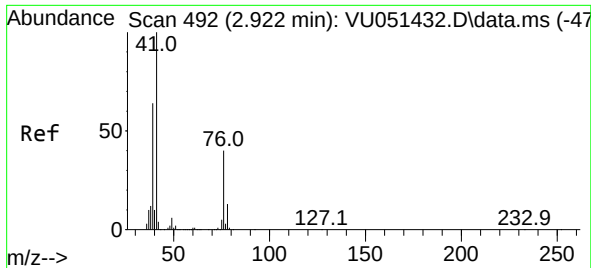


#10  
Iodomethane  
Concen: 0.484 ug/l  
RT: 2.723 min Scan# 430  
Delta R.T. 0.004 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

Tgt Ion:142 Resp: 10103  
Ion Ratio Lower Upper  
142 100  
127 39.3 37.0 55.4

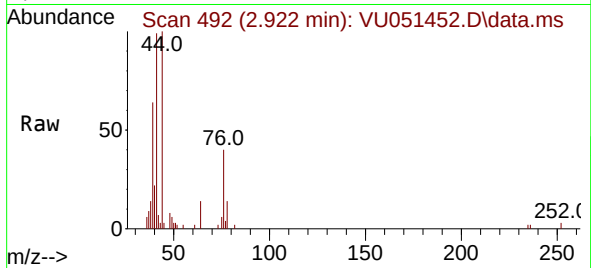






#11  
 Allyl Chloride  
 Concen: 0.466 ug/l  
 RT: 2.922 min Scan# 492  
 Delta R.T. 0.000 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27

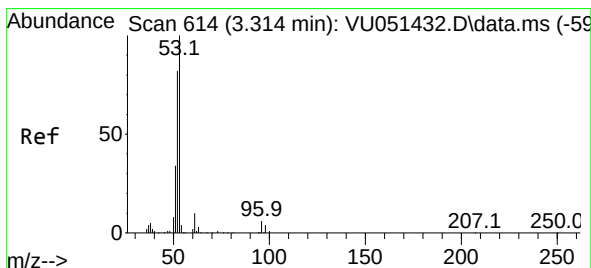
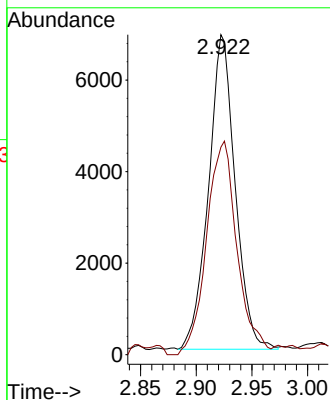
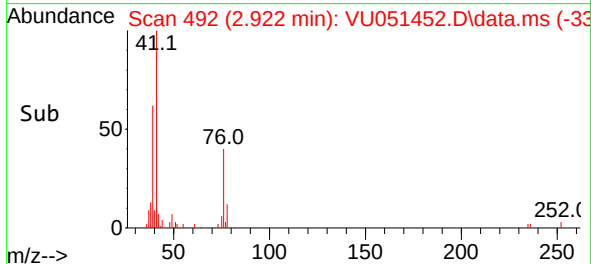
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT4-2022



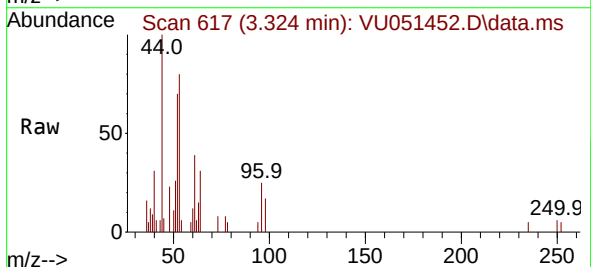
Tgt Ion: 41 Resp: 11450  
 Ion Ratio Lower Upper  
 41 100  
 39 77.5 51.4 77.0

Manual Integrations  
 APPROVED

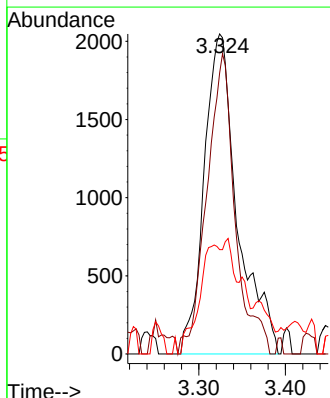
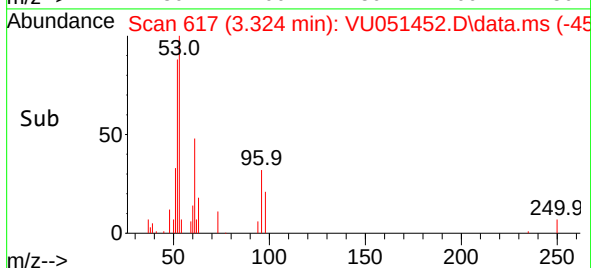
Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/20/2022

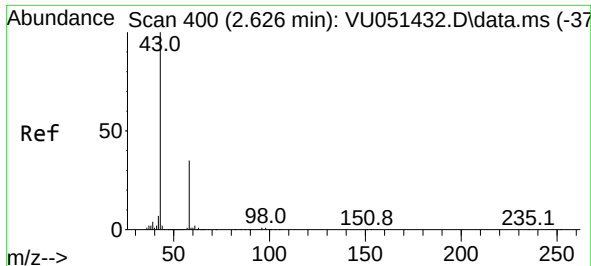


#12  
 Acrylonitrile  
 Concen: 1.156 ug/l  
 RT: 3.324 min Scan# 617  
 Delta R.T. 0.010 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27



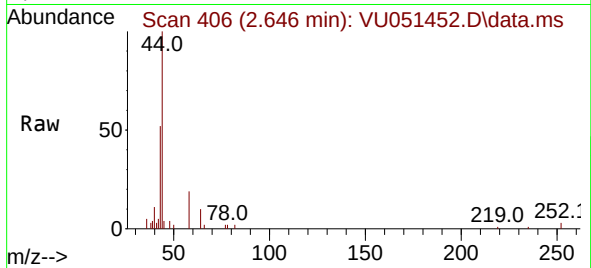
Tgt Ion: 53 Resp: 5484  
 Ion Ratio Lower Upper  
 53 100  
 52 79.5 63.9 95.9  
 51 21.2 25.9 38.9





#13  
Acetone  
Concen: 2.919 ug/l  
RT: 2.646 min Scan# 400  
Delta R.T. 0.019 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

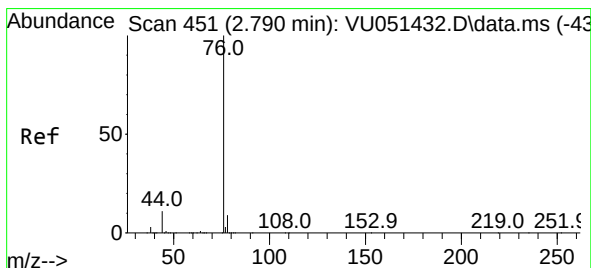
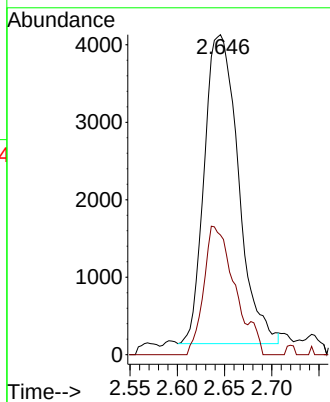
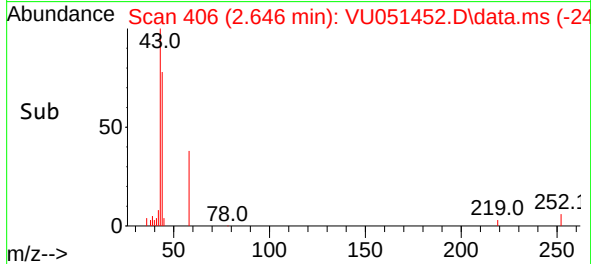
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 43 Resp: 996  
Ion Ratio Lower Upper  
43 100  
58 38.7 27.9 41.9

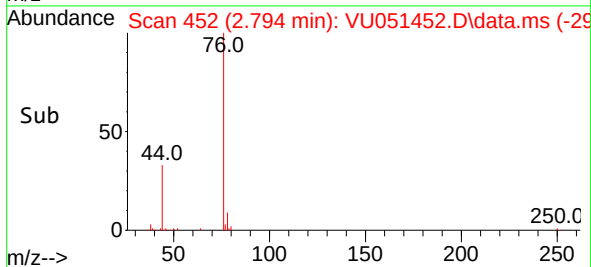
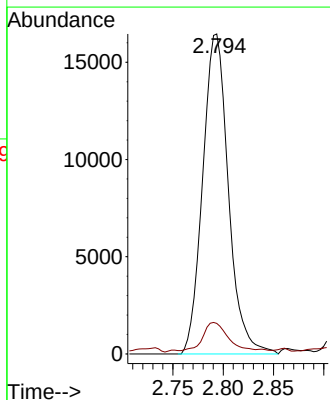
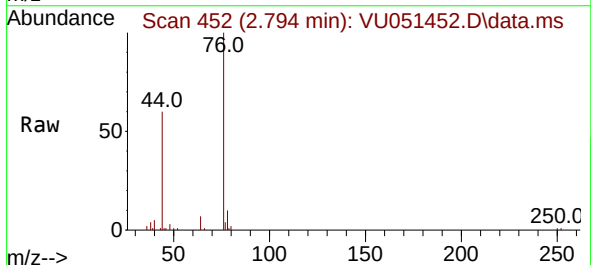
Manual Integrations  
APPROVED

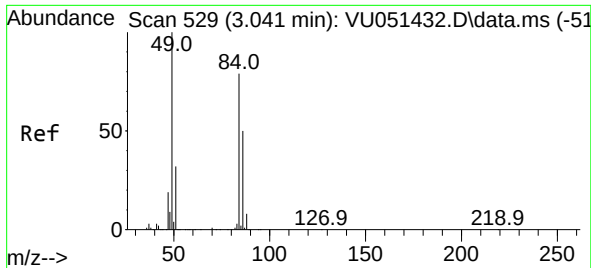
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#14  
Carbon Disulfide  
Concen: 0.510 ug/l  
RT: 2.794 min Scan# 452  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

Tgt Ion: 76 Resp: 29281  
Ion Ratio Lower Upper  
76 100  
78 8.5 7.2 10.8





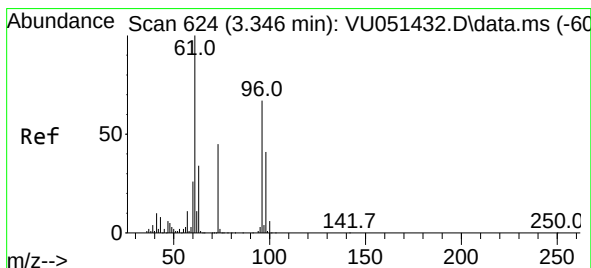
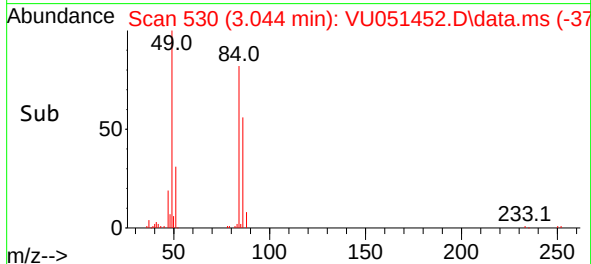
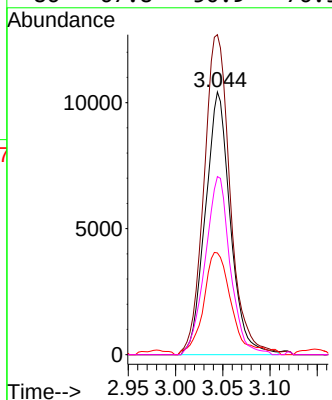
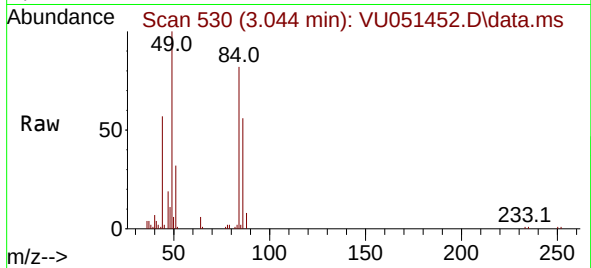
#15  
Methylene Chloride  
Concen: 0.812 ug/l  
RT: 3.044 min Scan# 517  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

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

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 84    | Resp: | 1917  |
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 49        | 121.8 | 101.1 | 151.7 |
| 51        | 38.8  | 0.0   | 80.2  |
| 86        | 67.8  | 50.9  | 76.3  |

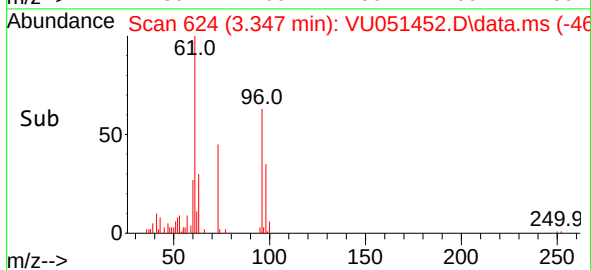
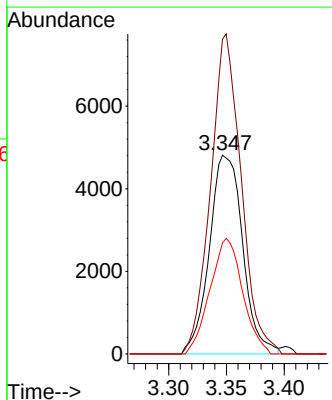
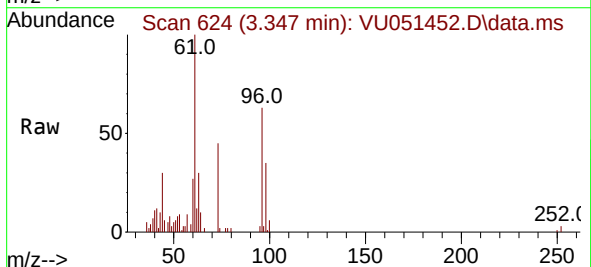
Manual Integrations  
APPROVED

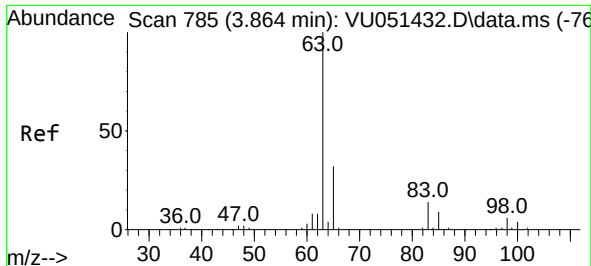
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#16  
trans-1,2-Dichloroethene  
Concen: 0.522 ug/l  
RT: 3.347 min Scan# 624  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 9656  |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 158.4 | 119.9 | 179.9 |
| 98        | 56.0  | 49.5  | 74.3  |





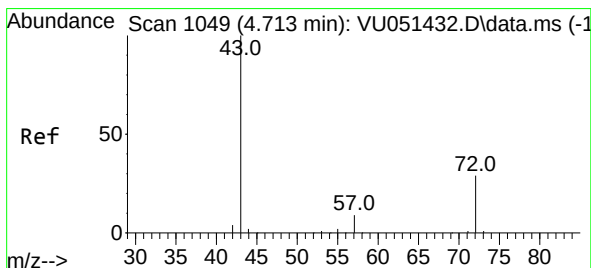
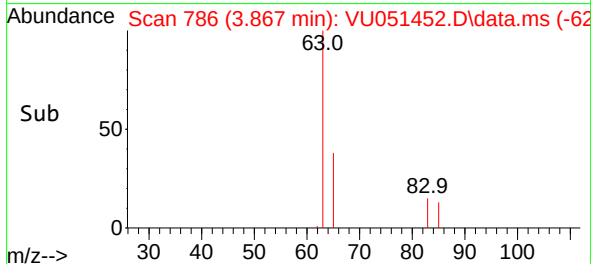
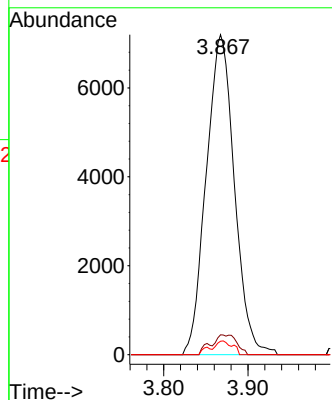
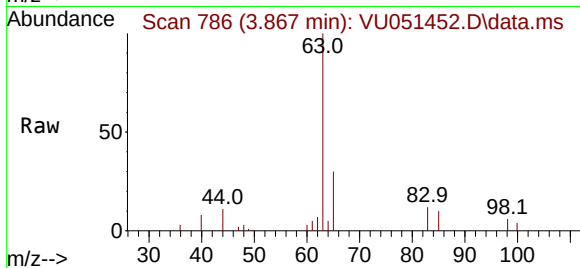
#17  
 1,1-Dichloroethane  
 Concen: 0.503 ug/l  
 RT: 3.867 min Scan# 785  
 Delta R.T. 0.003 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27

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

Tgt Ion: 63 Resp: 16718  
 Ion Ratio Lower Upper  
 63 100  
 98 6.2 3.1 9.3  
 100 4.2 2.1 6.3

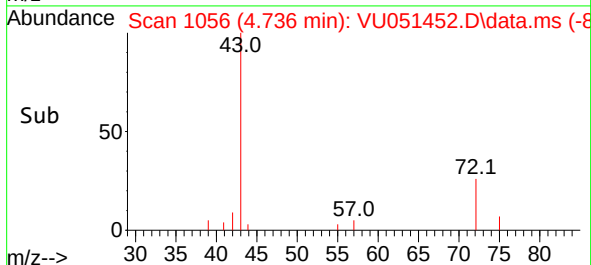
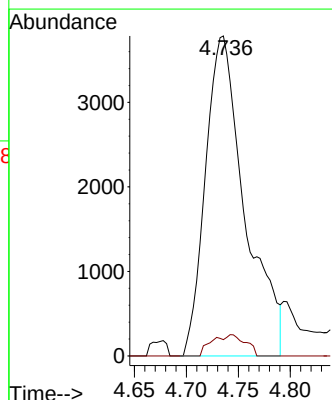
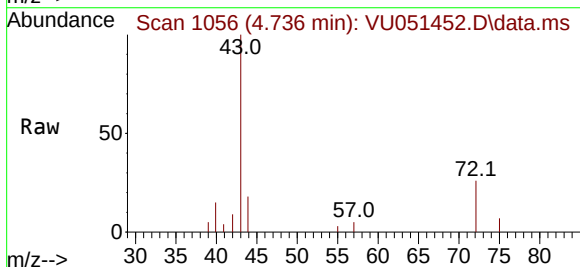
Manual Integrations  
 APPROVED

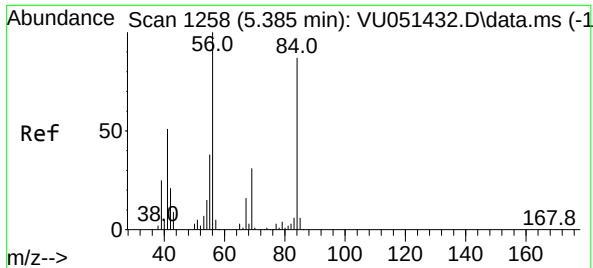
Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/20/2022



#18  
 2-Butanone  
 Concen: 2.413 ug/l  
 RT: 4.736 min Scan# 1056  
 Delta R.T. 0.023 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27

Tgt Ion: 43 Resp: 10001  
 Ion Ratio Lower Upper  
 43 100  
 57 5.1 0.0 18.2





#19

Cyclohexane

Concen: 0.393 ug/l m

RT: 5.388 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU051452.D

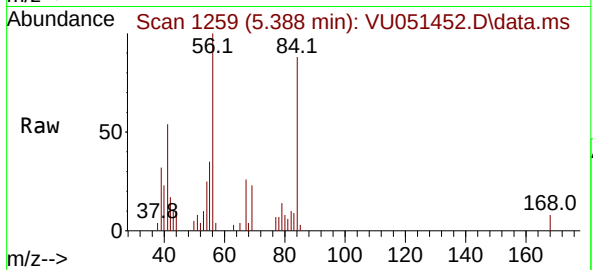
Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022



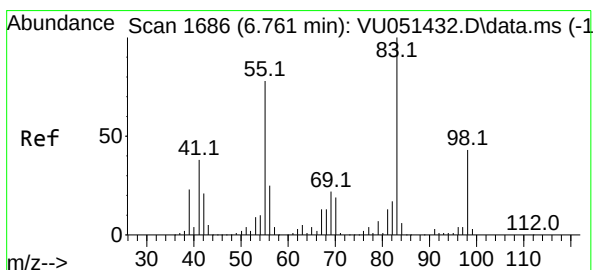
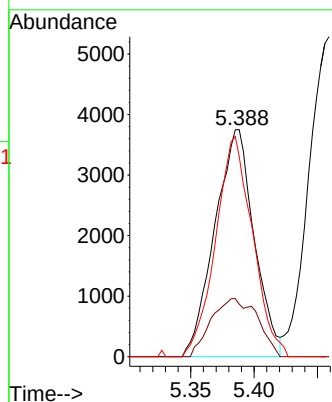
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 56    | Resp: | 809   |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 30.1  | 25.0  | 37.4  |
| 84        | 91.0  | 68.5  | 102.7 |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#20

Methylcyclohexane

Concen: 0.347 ug/l

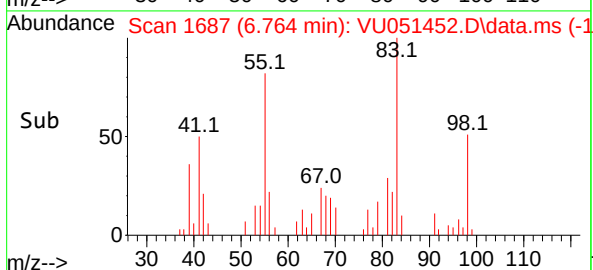
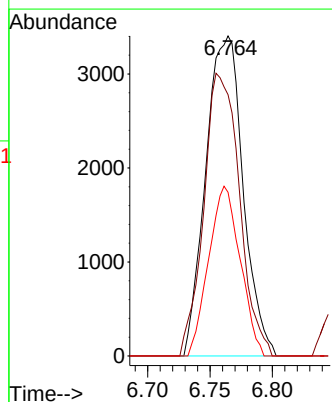
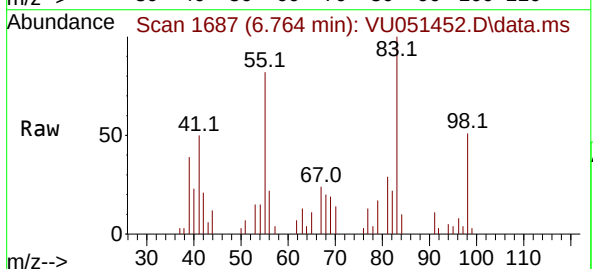
RT: 6.764 min Scan# 1687

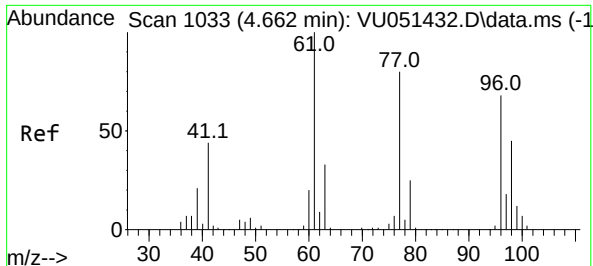
Delta R.T. 0.003 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 83    | Resp: | 7095 |
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 55        | 84.5  | 62.4  | 93.6 |
| 98        | 44.8  | 35.5  | 53.3 |





#21

2,2-Dichloropropane

Concen: 0.478 ug/l

RT: 4.662 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 77 Resp: 1110

Ion Ratio Lower Upper

77 100

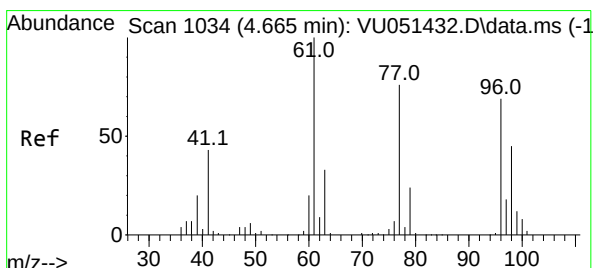
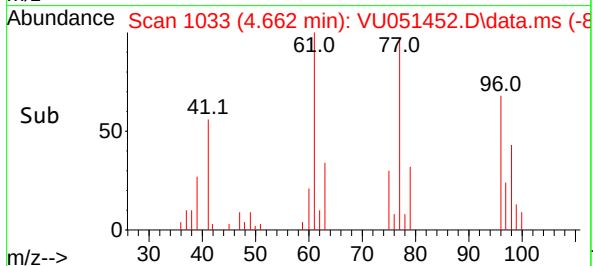
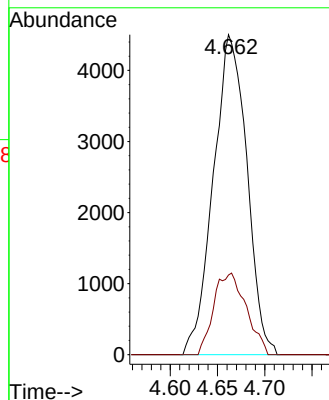
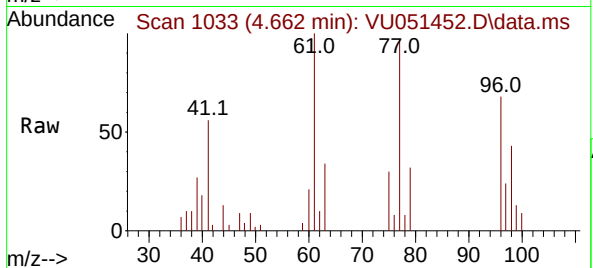
97 24.6 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#22

cis-1,2-Dichloroethene

Concen: 0.503 ug/l

RT: 4.668 min Scan# 1035

Delta R.T. 0.003 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

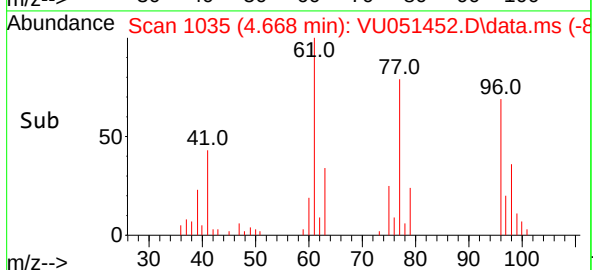
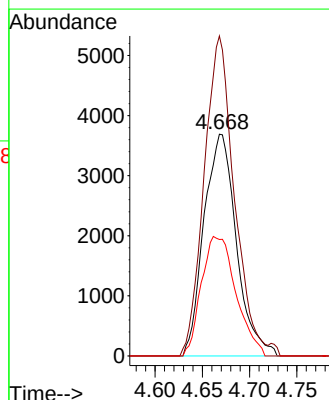
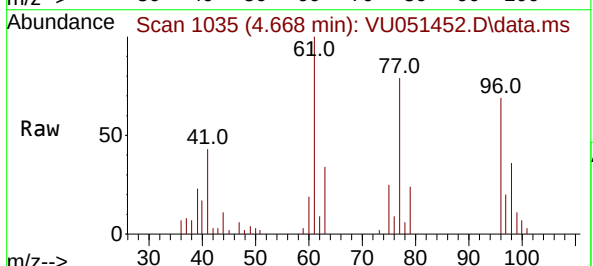
Tgt Ion: 96 Resp: 8802

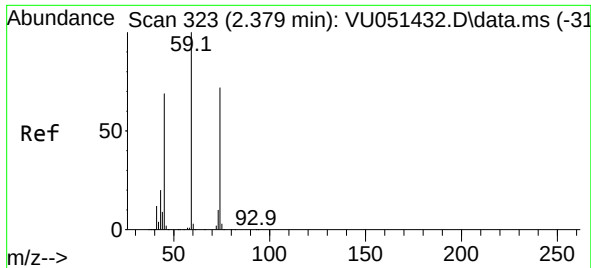
Ion Ratio Lower Upper

96 100

61 133.9 0.0 362.8

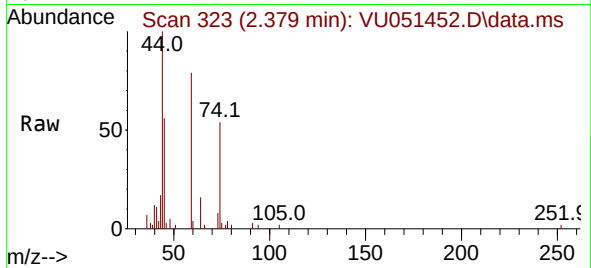
98 57.4 32.5 97.5





#23  
Diethyl Ether  
Concen: 0.514 ug/l  
RT: 2.379 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

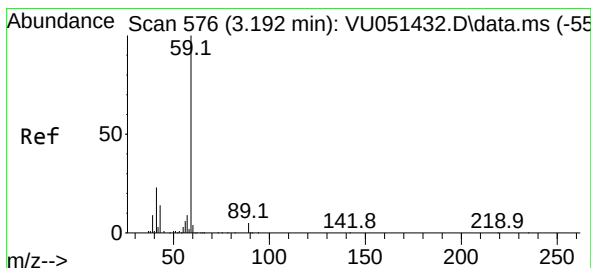
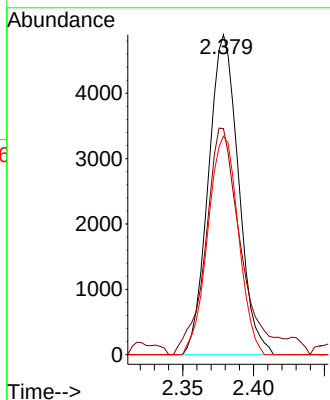
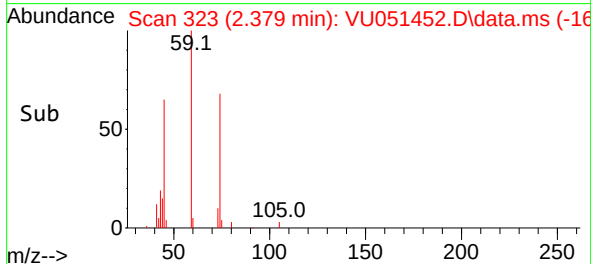
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



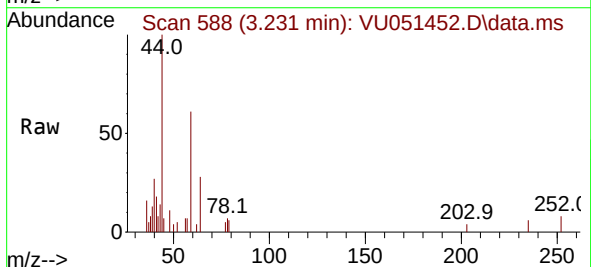
Tgt Ion: 59 Resp: 7229  
Ion Ratio Lower Upper  
59 100  
45 82.2 55.7 83.5  
74 69.6 58.2 87.4

Manual Integrations  
APPROVED

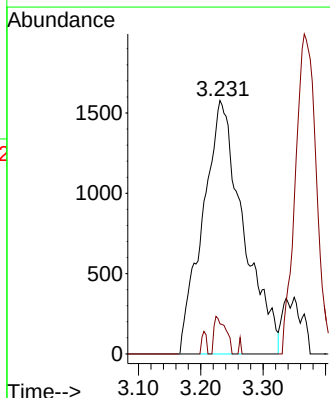
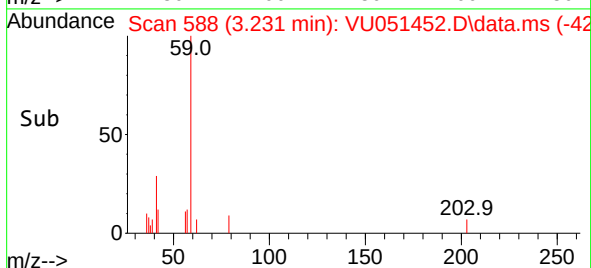
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

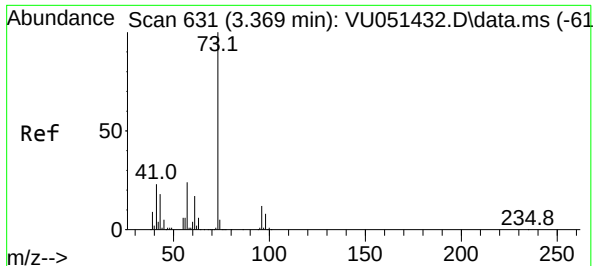


#24  
tert-Butyl Alcohol  
Concen: 4.810 ug/l  
RT: 3.231 min Scan# 588  
Delta R.T. 0.039 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



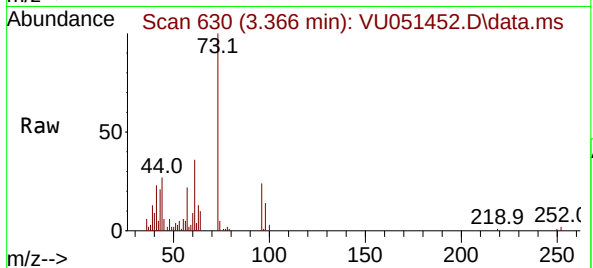
Tgt Ion: 59 Resp: 7099  
Ion Ratio Lower Upper  
59 100  
57 4.2 7.8 11.8#





#25  
Methyl tert-Butyl Ether  
Concen: 0.520 ug/l  
RT: 3.366 min Scan# 611  
Delta R.T. -0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

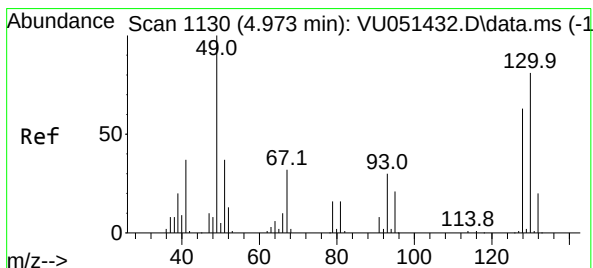
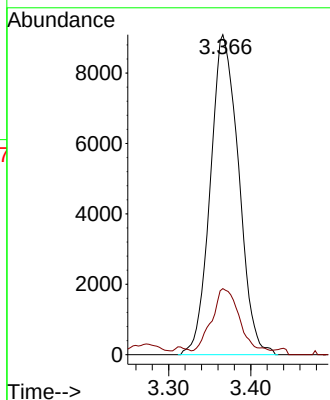
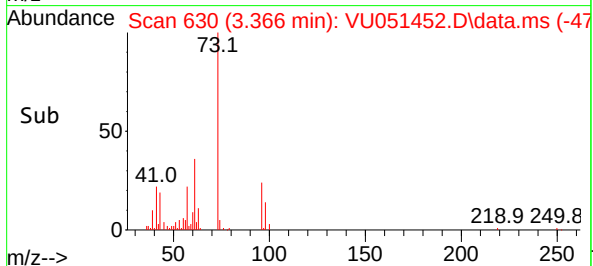
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



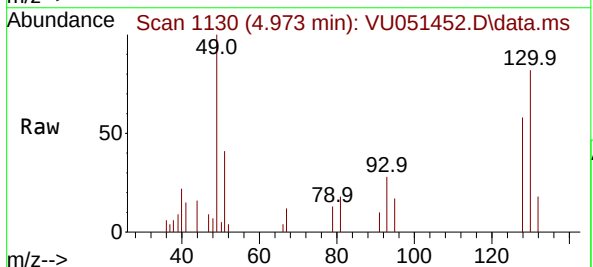
Tgt Ion: 73 Resp: 2180  
Ion Ratio Lower Upper  
73 100  
43 20.2 14.2 21.4

Manual Integrations  
APPROVED

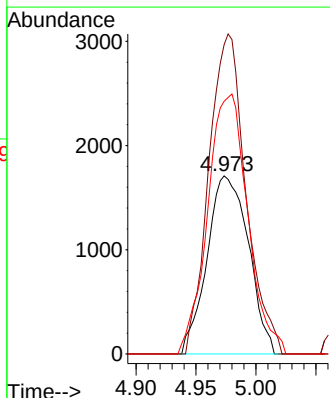
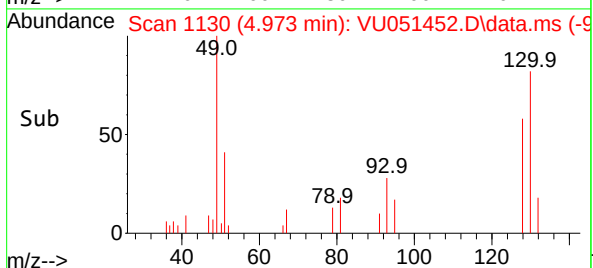
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



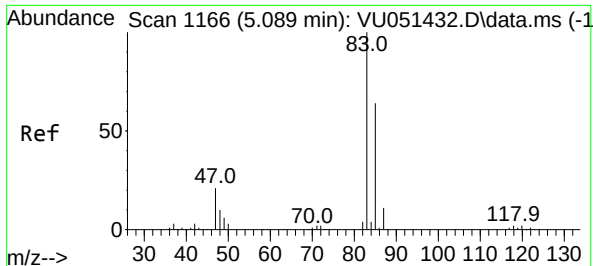
#26  
Bromochloromethane  
Concen: 0.481 ug/l  
RT: 4.973 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



Tgt Ion:128 Resp: 4102  
Ion Ratio Lower Upper  
128 100  
49 160.8 0.0 320.4  
130 141.5 105.0 157.6







#27

Chloroform

Concen: 0.504 ug/l

RT: 5.086 min Scan# 1166

Delta R.T. -0.003 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 83 Resp: 1696

Ion Ratio Lower Upper

83 100

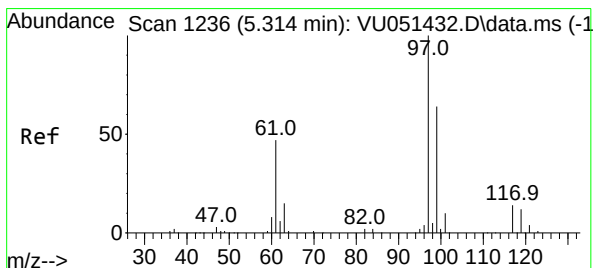
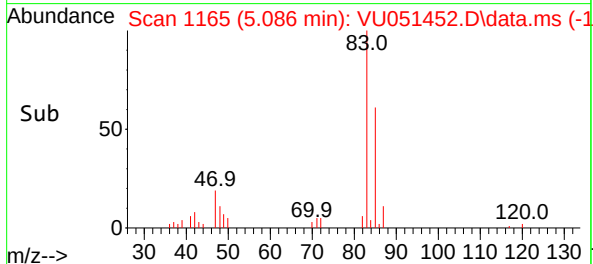
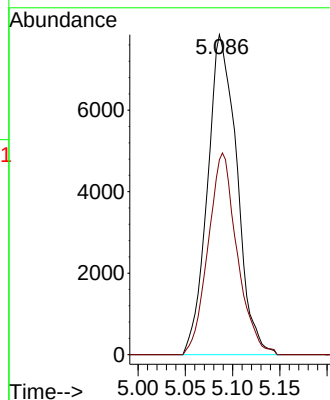
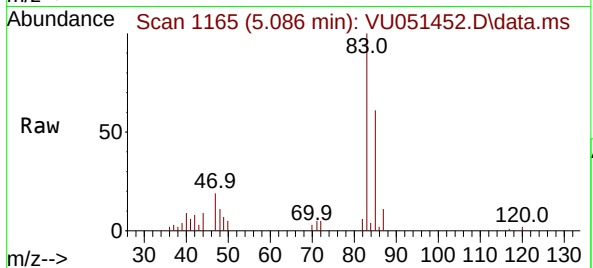
85 60.9 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#28

1,1,1-Trichloroethane

Concen: 0.499 ug/l

RT: 5.318 min Scan# 1237

Delta R.T. 0.003 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

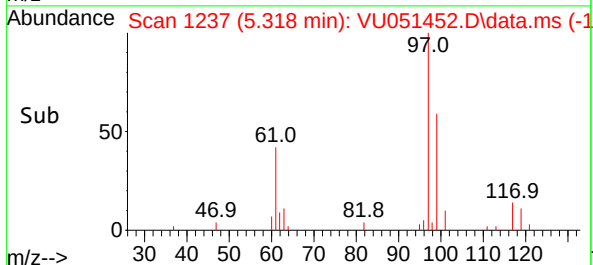
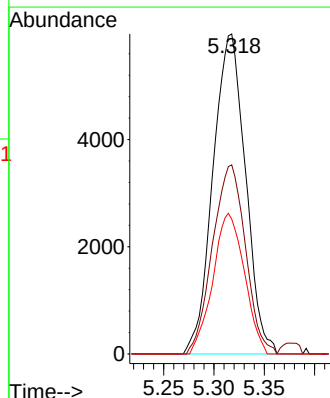
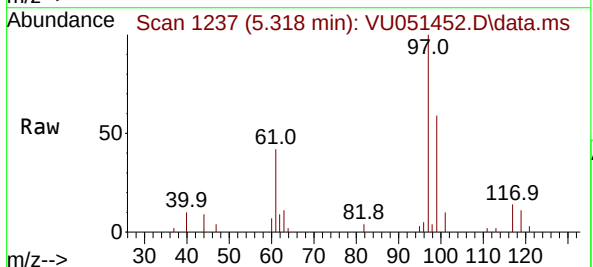
Tgt Ion: 97 Resp: 13407

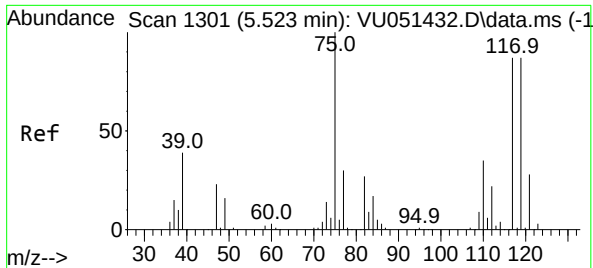
Ion Ratio Lower Upper

97 100

99 59.9 31.8 95.4

61 42.5 23.6 71.0





#29

1,1-Dichloropropene

Concen: 0.427 ug/l

RT: 5.523 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 75 Resp: 8770

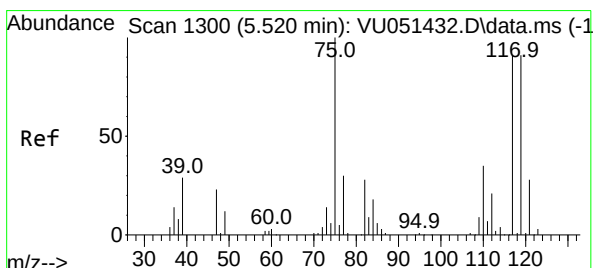
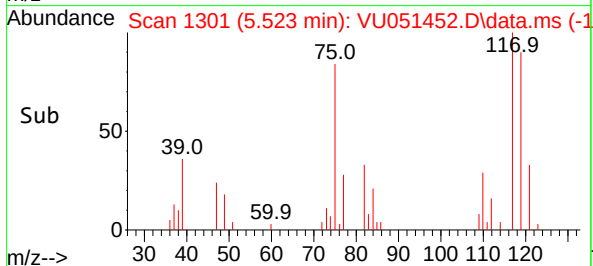
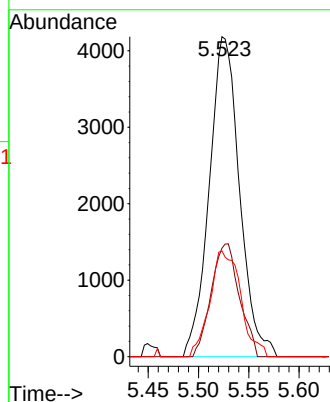
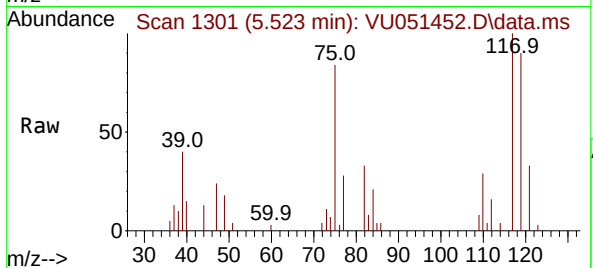
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 32.7  | 17.8  | 53.3  |
| 77  | 33.7  | 24.2  | 36.4  |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#30

Carbon Tetrachloride

Concen: 0.490 ug/l

RT: 5.520 min Scan# 1300

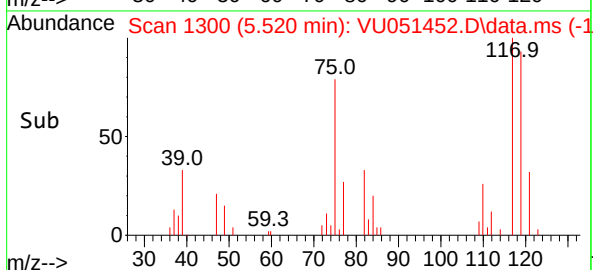
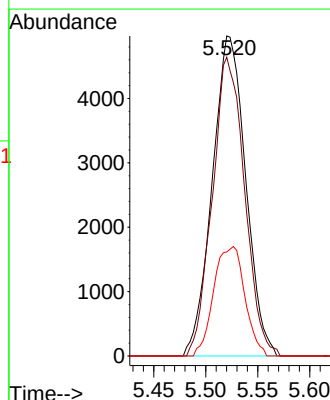
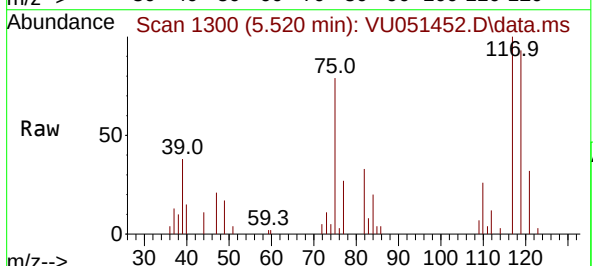
Delta R.T. 0.000 min

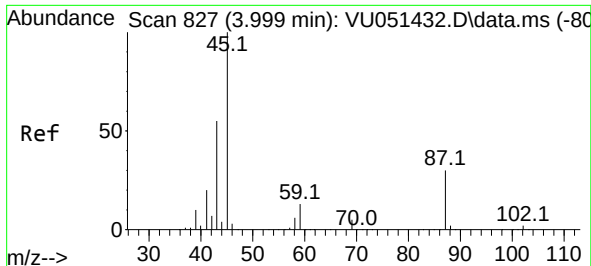
Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Tgt Ion:117 Resp: 11103

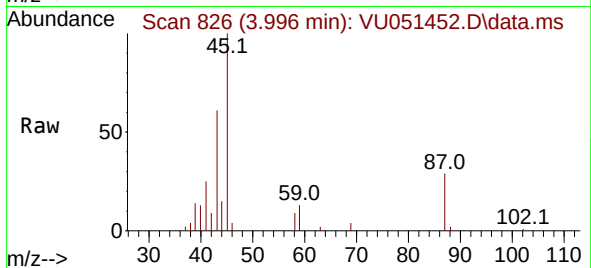
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 93.3  | 80.0  | 120.0 |
| 121 | 32.5  | 24.9  | 37.3  |





#31  
Isopropyl Ether  
Concen: 0.466 ug/l  
RT: 3.996 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

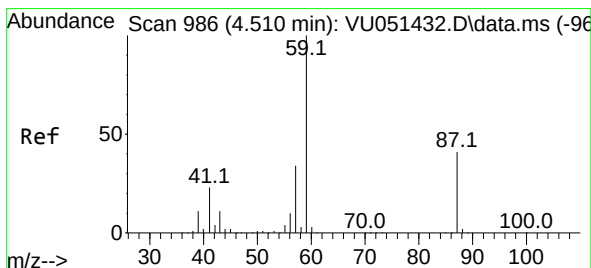
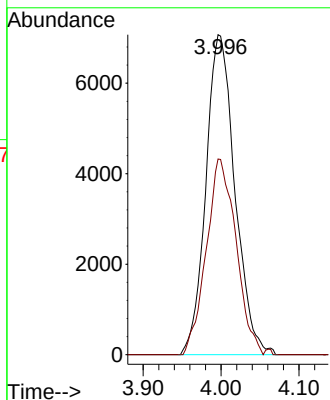
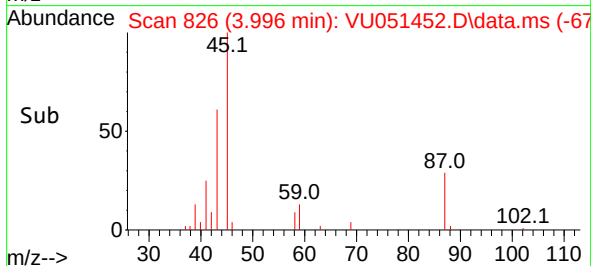
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



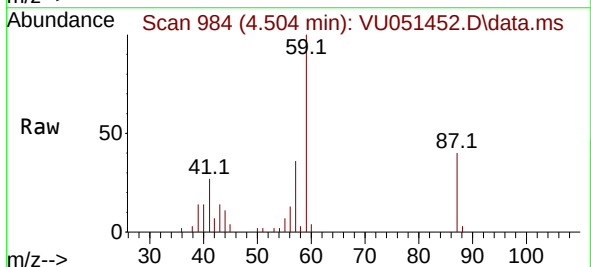
Tgt Ion: 45 Resp: 1832  
Ion Ratio Lower Upper  
45 100  
43 62.7 27.6 82.7

Manual Integrations  
APPROVED

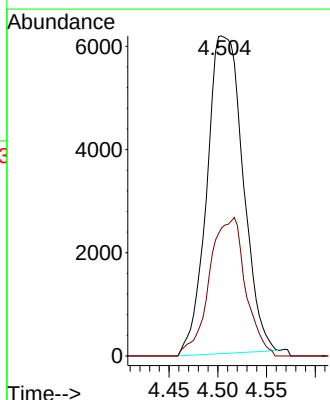
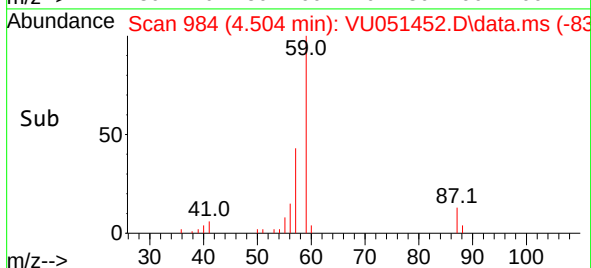
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

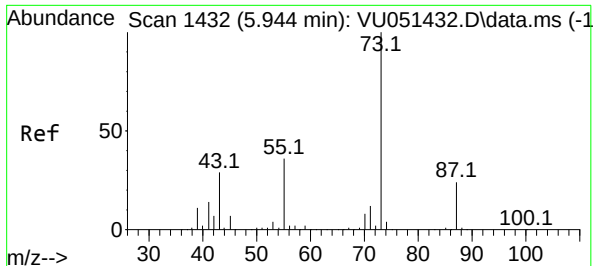


#32  
Ethyl-t-butyl ether  
Concen: 0.443 ug/l  
RT: 4.504 min Scan# 984  
Delta R.T. -0.006 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



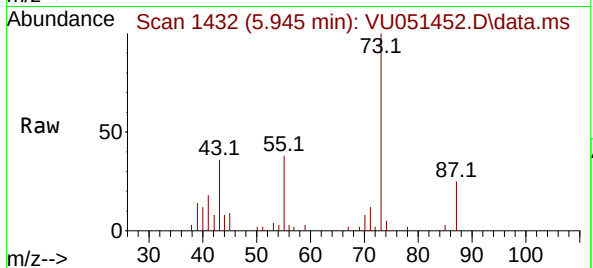
Tgt Ion: 59 Resp: 15881  
Ion Ratio Lower Upper  
59 100  
87 43.3 33.8 50.8





#33  
Tert-Amyl methyl ether  
Concen: 0.416 ug/l  
RT: 5.945 min Scan# 1432  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

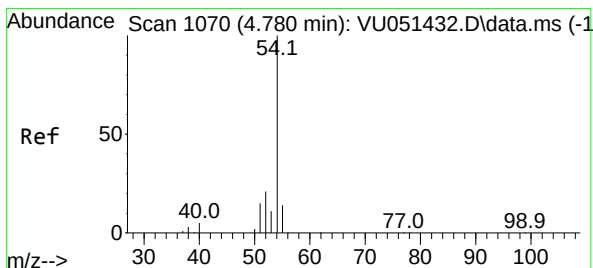
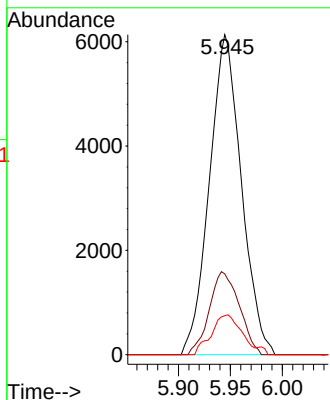
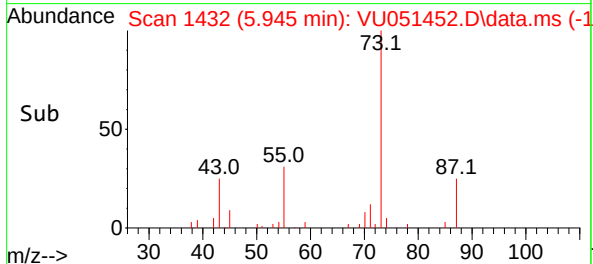
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



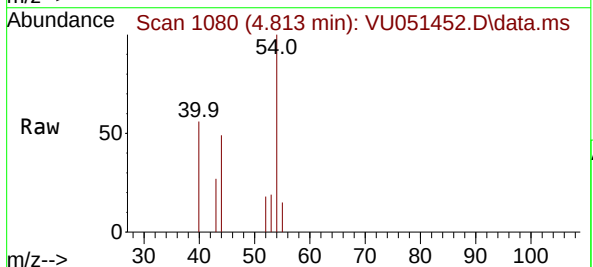
Tgt Ion: 73 Resp: 13109  
Ion Ratio Lower Upper  
73 100  
87 24.3 18.9 28.3  
71 12.2 9.4 14.2

Manual Integrations  
APPROVED

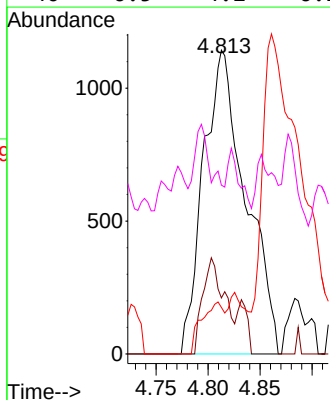
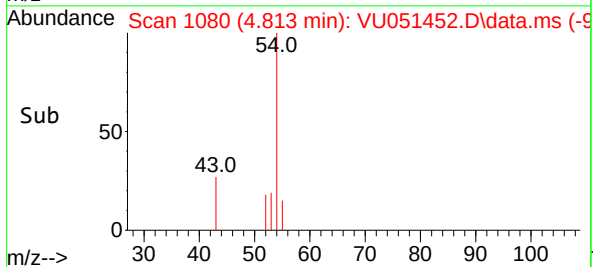
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

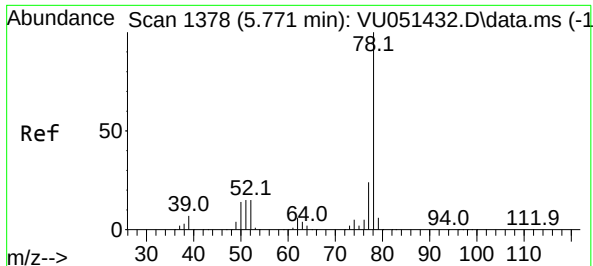


#34  
Propionitrile  
Concen: 2.324 ug/l  
RT: 4.813 min Scan# 1080  
Delta R.T. 0.032 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



Tgt Ion: 54 Resp: 3238  
Ion Ratio Lower Upper  
54 100  
52 16.3 16.4 24.6#  
55 9.1 11.5 17.3#  
40 6.5 4.2 6.2#





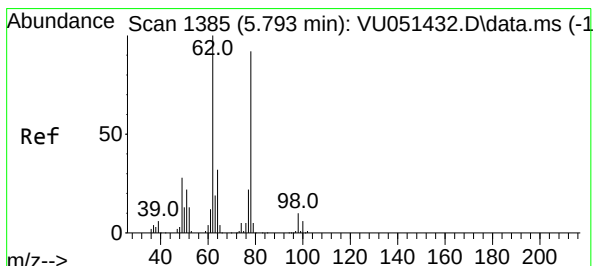
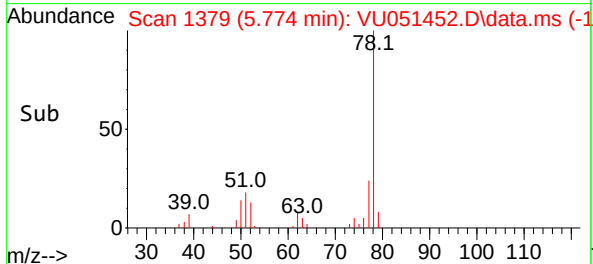
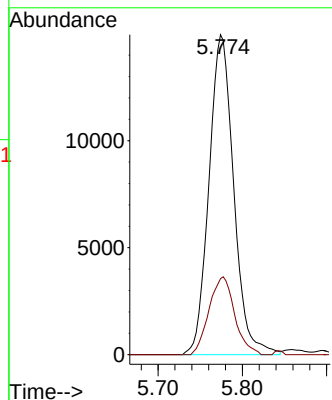
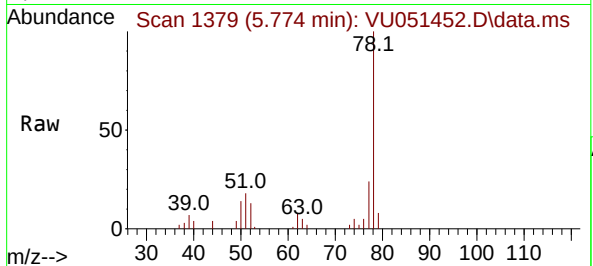
#35  
Benzene  
Concen: 0.441 ug/l  
RT: 5.774 min Scan# 1378  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

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

Tgt Ion: 78 Resp: 30478  
Ion Ratio Lower Upper  
78 100  
77 23.7 19.0 28.6

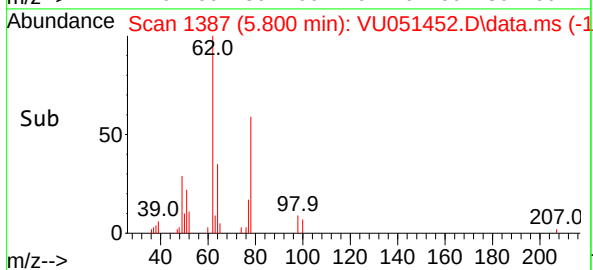
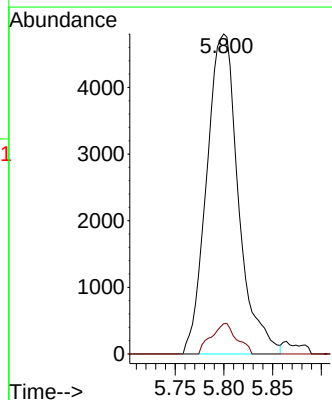
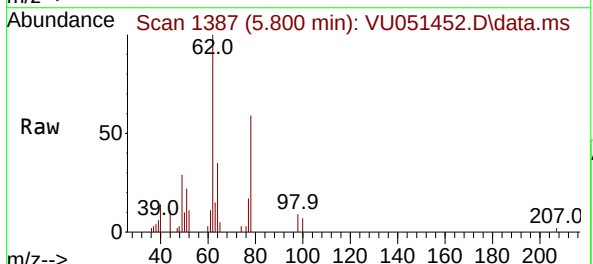
Manual Integrations  
APPROVED

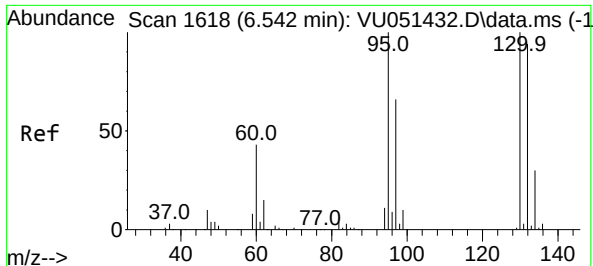
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#36  
1,2-Dichloroethane  
Concen: 0.511 ug/l  
RT: 5.800 min Scan# 1387  
Delta R.T. 0.007 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

Tgt Ion: 62 Resp: 10886  
Ion Ratio Lower Upper  
62 100  
98 7.6 7.4 11.2





#37

Trichloroethene

Concen: 0.453 ug/l

RT: 6.543 min Scan# 1618

Delta R.T. 0.000 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion:130 Resp: 7330

Ion Ratio Lower Upper

130 100

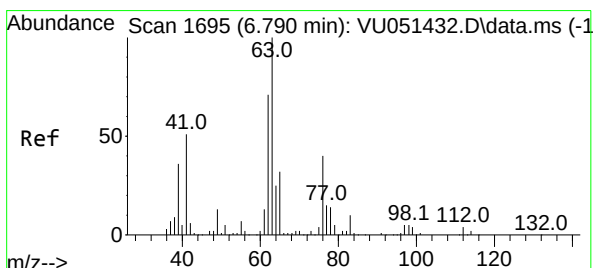
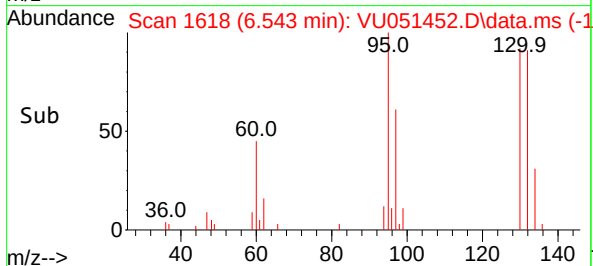
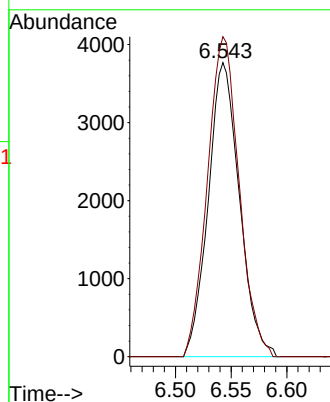
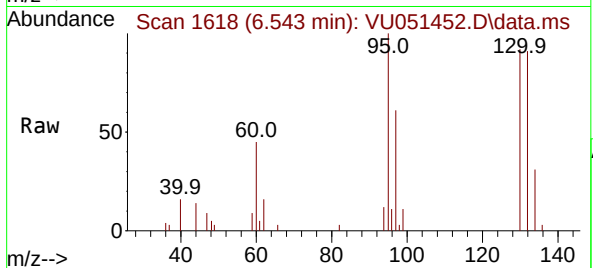
95 108.8 80.2 120.4

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#38

1,2-Dichloropropane

Concen: 0.476 ug/l

RT: 6.793 min Scan# 1696

Delta R.T. 0.003 min

Lab File: VU051452.D

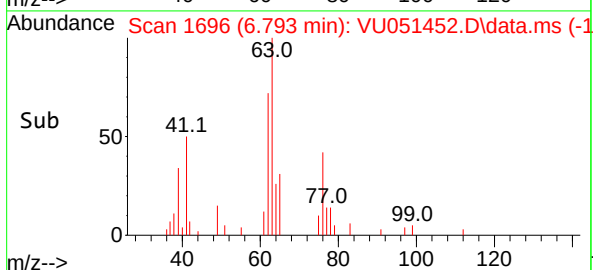
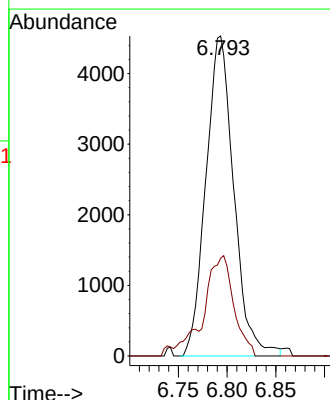
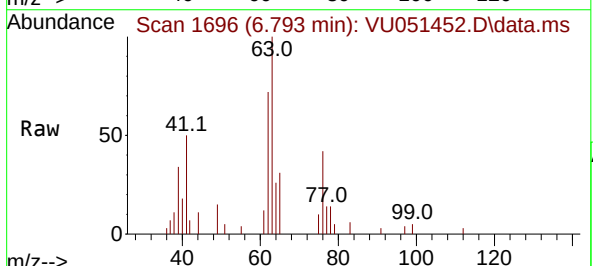
Acq: 19 Oct 2022 12:27

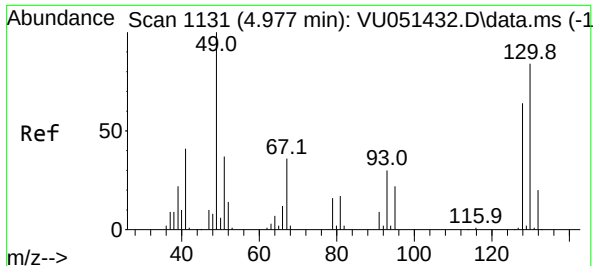
Tgt Ion: 63 Resp: 9022

Ion Ratio Lower Upper

63 100

65 30.6 25.4 38.2





#39

Methacrylonitrile

Concen: 0.468 ug/l

RT: 4.986 min Scan# 1131

Delta R.T. 0.010 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 41 Resp: 2220

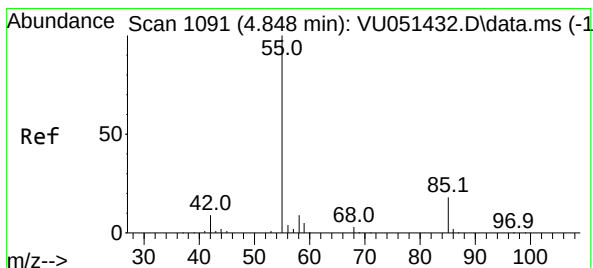
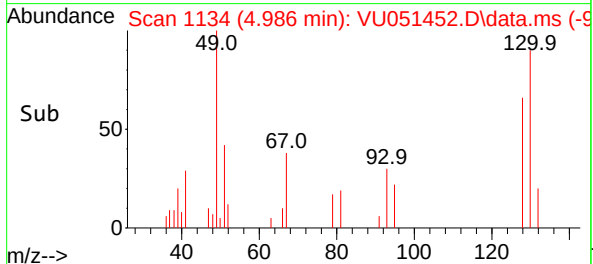
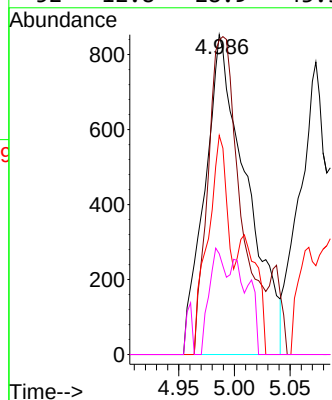
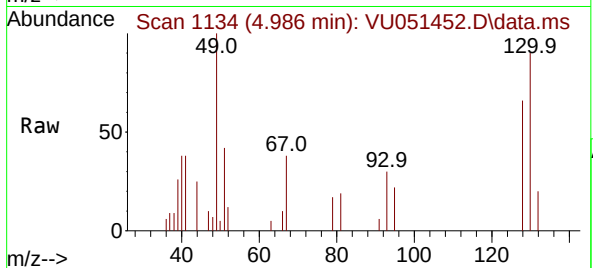
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 67  | 77.7  | 69.6  | 104.4 |
| 39  | 34.2  | 42.2  | 63.4  |
| 52  | 12.8  | 28.9  | 43.3  |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#40

Methyl acrylate

Concen: 0.421 ug/l

RT: 4.861 min Scan# 1095

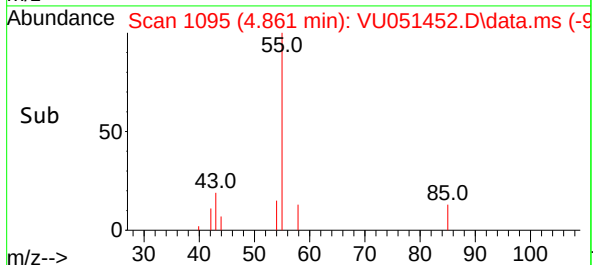
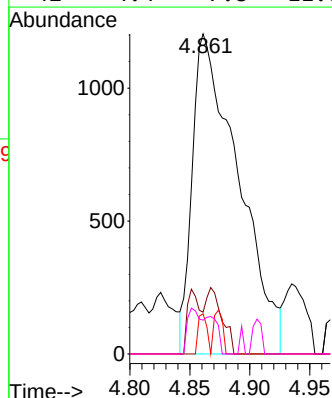
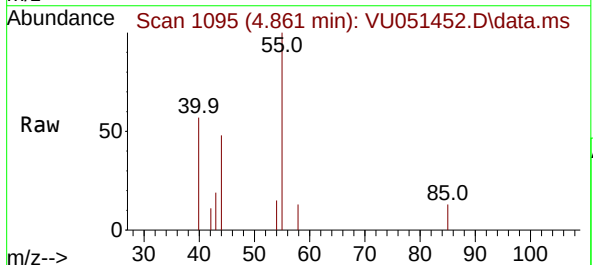
Delta R.T. 0.013 min

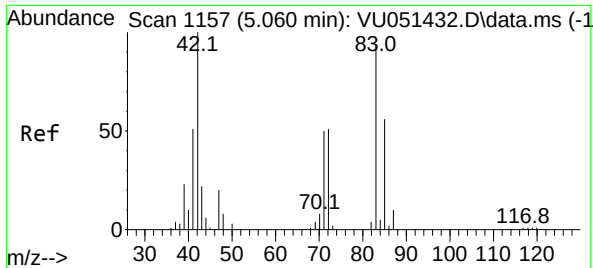
Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Tgt Ion: 55 Resp: 3200

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 55  | 100   |       |       |
| 85  | 0.0   | 15.0  | 22.6  |
| 58  | 2.4   | 7.5   | 11.3  |
| 42  | 4.4   | 7.8   | 11.6  |





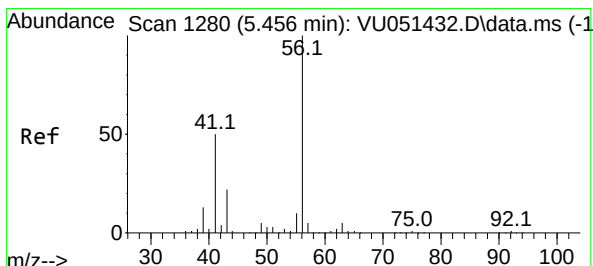
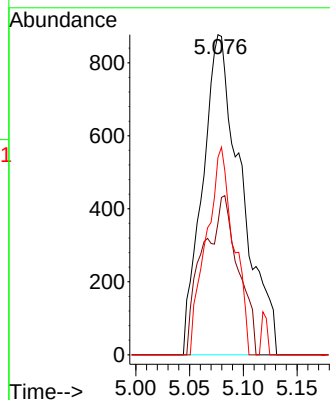
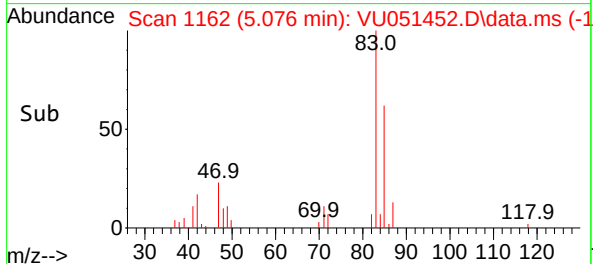
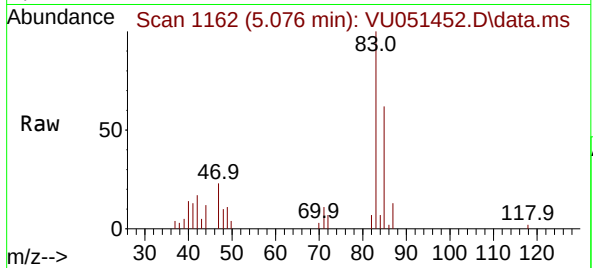
#41  
Tetrahydrofuran  
Concen: 0.883 ug/l  
RT: 5.076 min Scan# 1157  
Delta R.T. 0.016 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

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

Tgt Ion: 42 Resp: 2209  
Ion Ratio Lower Upper  
42 100  
72 45.0 42.6 64.0  
71 45.6 38.3 57.5

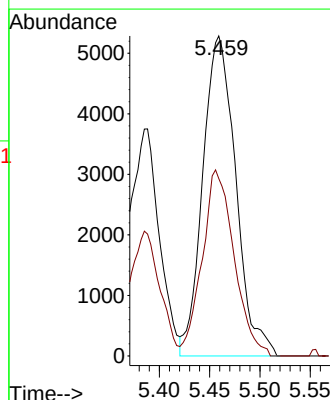
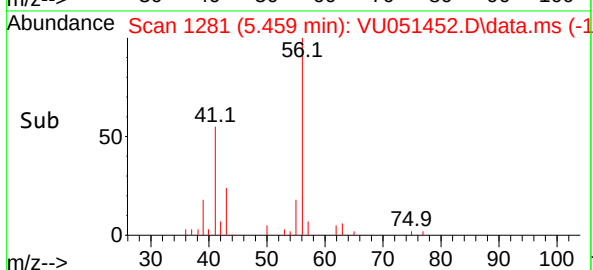
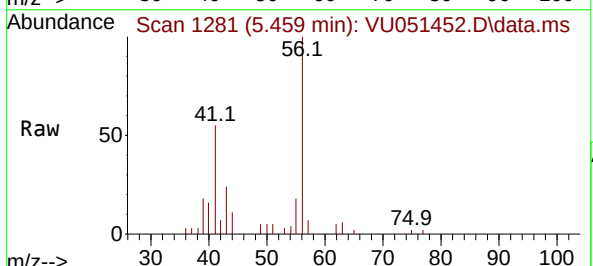
Manual Integrations  
APPROVED

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

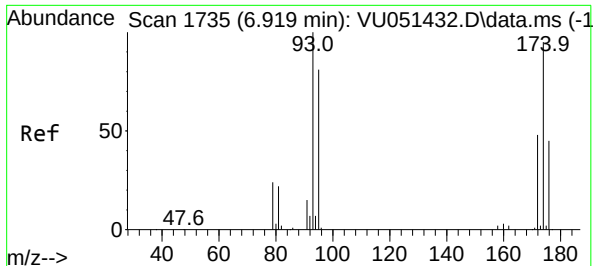


#42  
1-Chlorobutane  
Concen: 0.429 ug/l  
RT: 5.459 min Scan# 1281  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

Tgt Ion: 56 Resp: 12047  
Ion Ratio Lower Upper  
56 100  
41 56.4 24.8 74.4

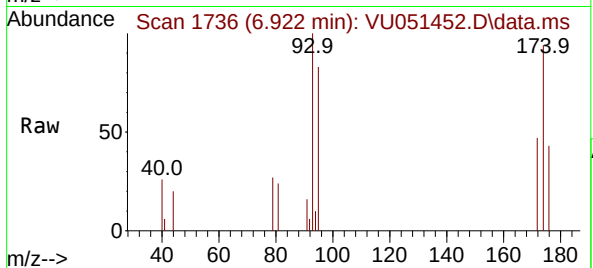






#43  
Dibromomethane  
Concen: 0.425 ug/l  
RT: 6.922 min Scan# 1736  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

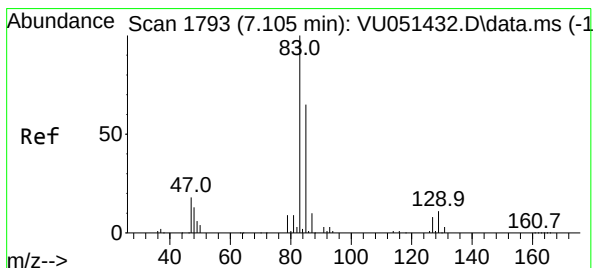
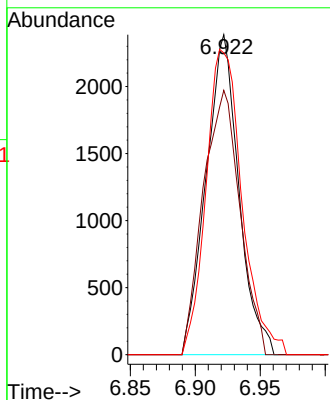
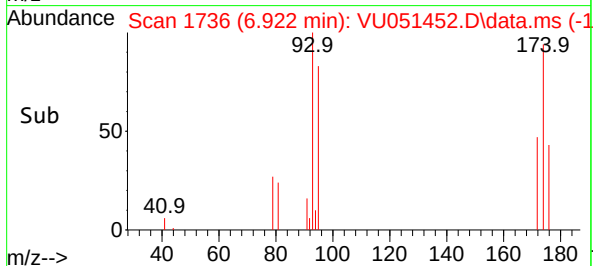
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion: 93 Resp: 417  
Ion Ratio Lower Upper  
93 100  
95 92.6 66.7 100.1  
174 105.1 75.5 113.3

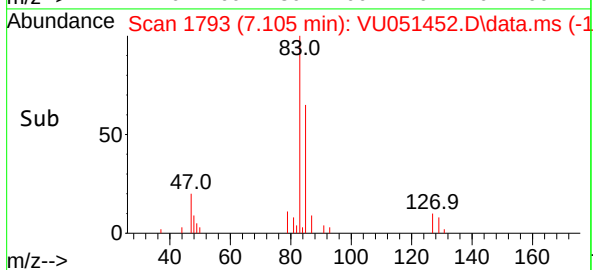
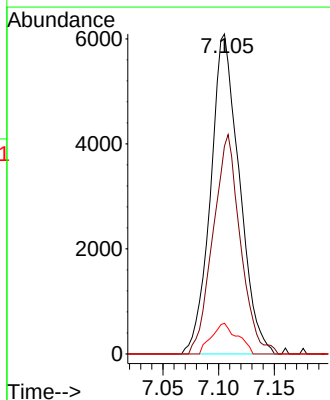
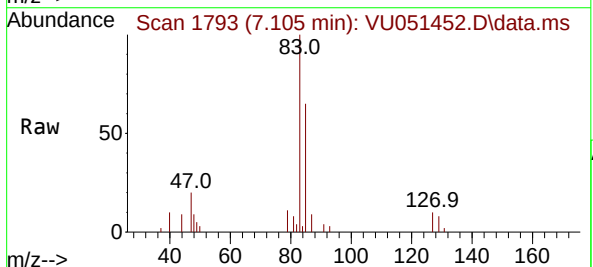
Manual Integrations  
APPROVED

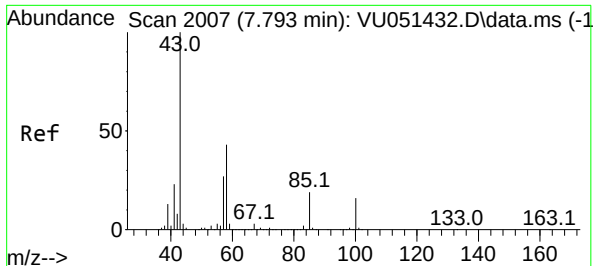
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#44  
Bromodichloromethane  
Concen: 0.460 ug/l  
RT: 7.105 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

Tgt Ion: 83 Resp: 10942  
Ion Ratio Lower Upper  
83 100  
85 64.9 52.1 78.1  
127 9.6 6.8 10.2





#45

4-Methyl-2-Pentanone

Concen: 1.982 ug/l

RT: 7.800 min Scan# 2007

Delta R.T. 0.007 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

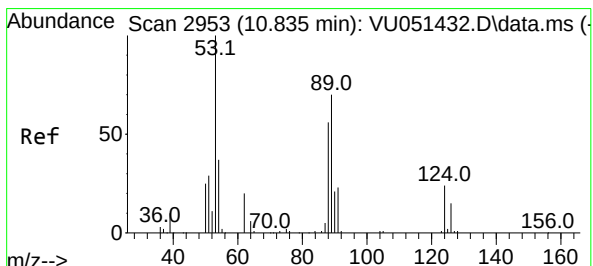
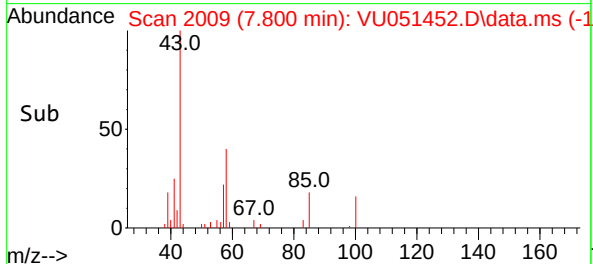
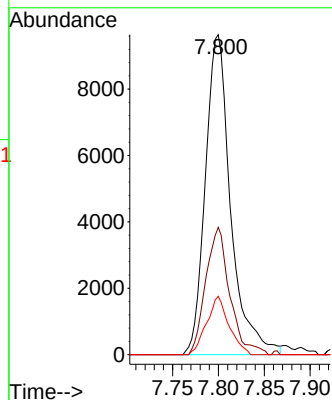
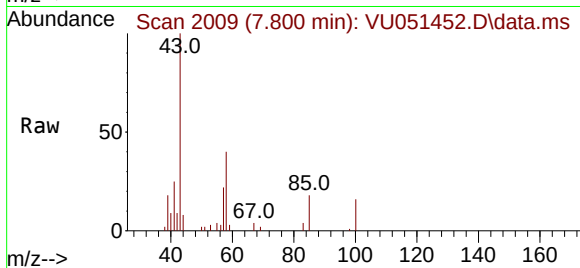
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 43    | Resp: | 1854 |
| Ion Ratio | Lower | Upper |      |
| 43        | 100   |       |      |
| 58        | 37.7  | 21.4  | 64.3 |
| 85        | 16.1  | 15.4  | 23.0 |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#46

t-1,4-Dichloro-2-butene

Concen: 0.790 ug/l m

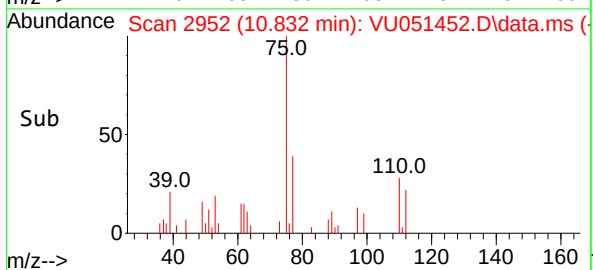
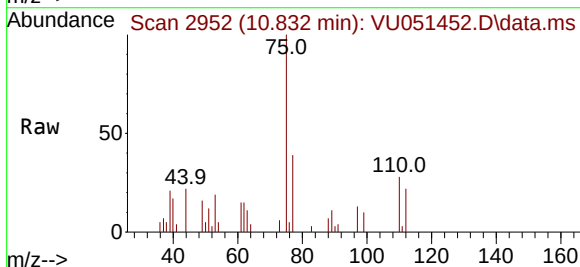
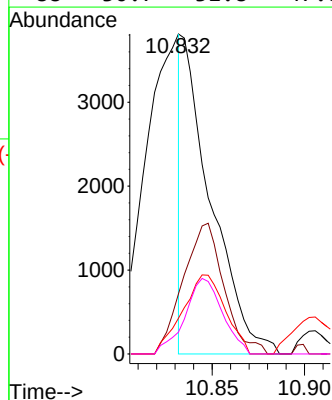
RT: 10.832 min Scan# 2952

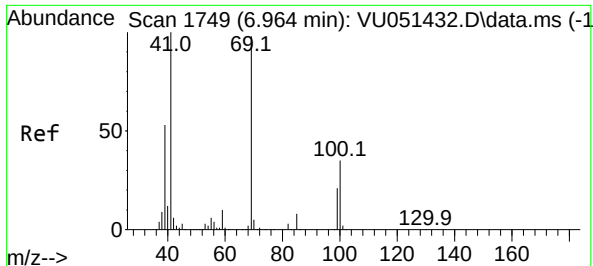
Delta R.T. -0.003 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 4124  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 57.8  | 61.1  | 91.7# |
| 89        | 36.5  | 41.0  | 61.6# |
| 88        | 30.7  | 31.8  | 47.8# |





#47

Methyl methacrylate

Concen: 0.750 ug/l

RT: 6.964 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

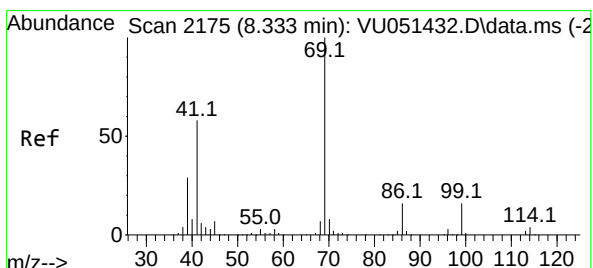
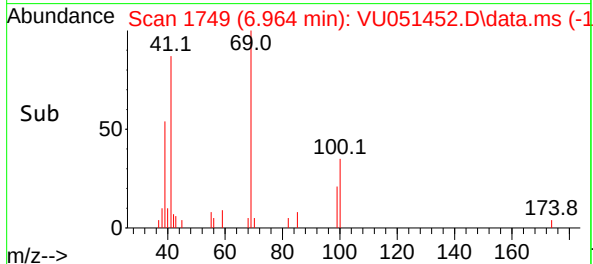
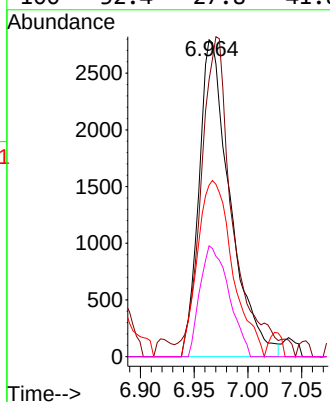
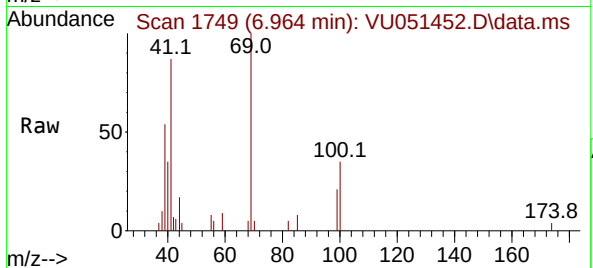
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 5634  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 103.5 | 0.0   | 200.8 |
| 39       | 62.2  | 44.1  | 66.1  |
| 100      | 32.4  | 27.8  | 41.8  |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#48

Ethyl methacrylate

Concen: 0.365 ug/l

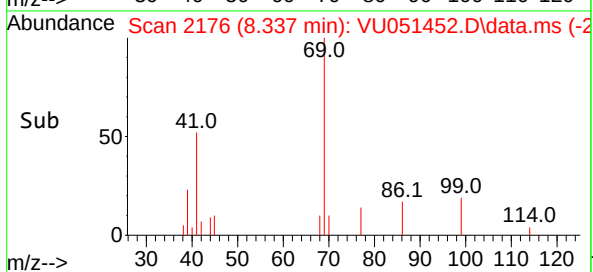
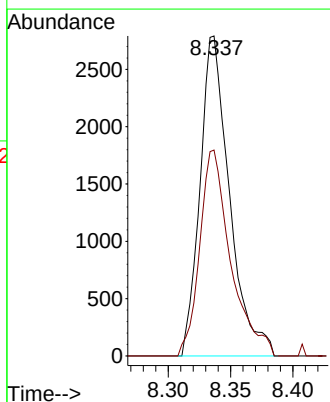
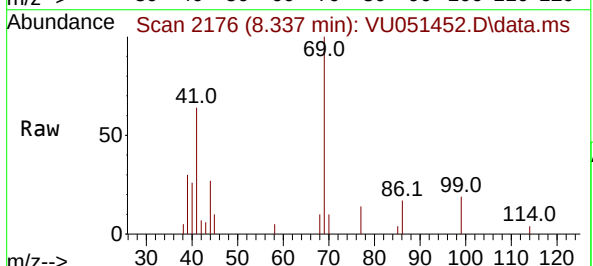
RT: 8.337 min Scan# 2176

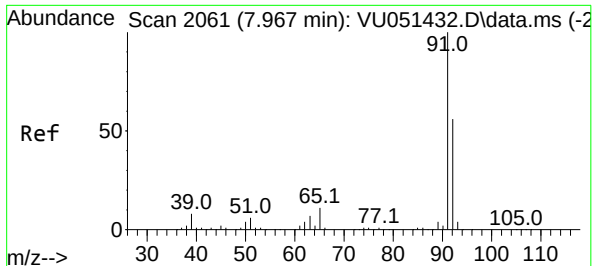
Delta R.T. 0.004 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 4592  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 67.5  | 28.8  | 86.5  |





#49

Toluene

Concen: 0.351 ug/l

RT: 7.970 min Scan# 2061

Delta R.T. 0.003 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion: 92 Resp: 13280

Ion Ratio Lower Upper

92 100

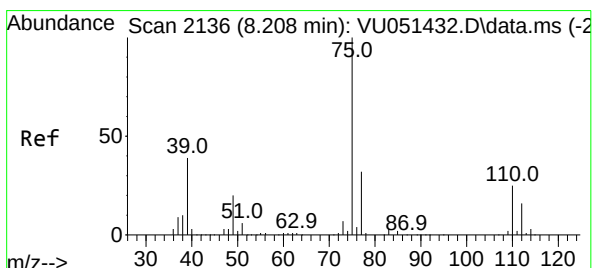
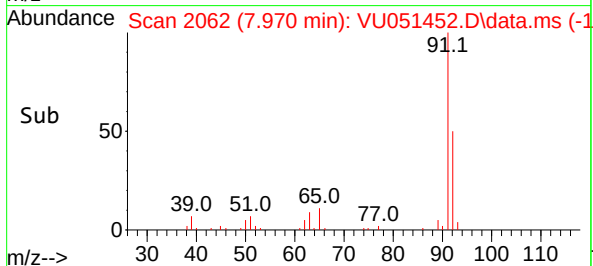
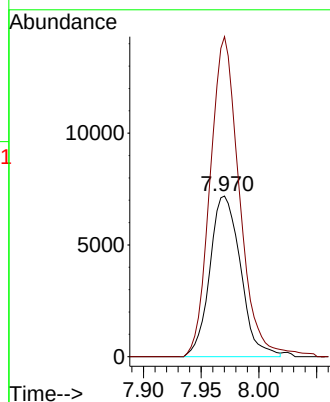
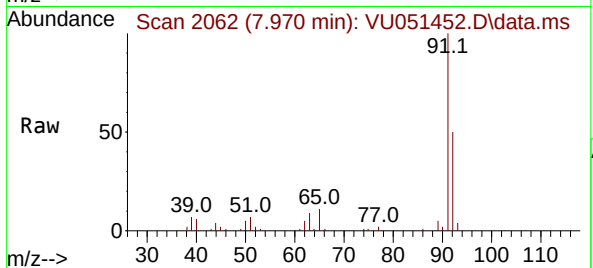
91 190.9 141.8 212.6

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#50

t-1,3-Dichloropropene

Concen: 0.416 ug/l

RT: 8.215 min Scan# 2138

Delta R.T. 0.007 min

Lab File: VU051452.D

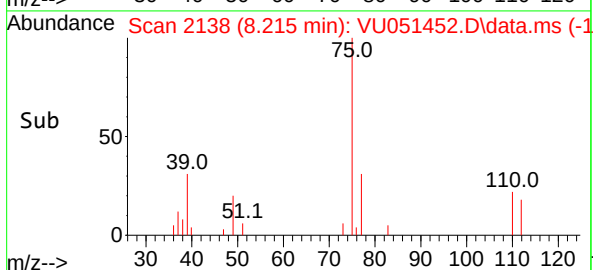
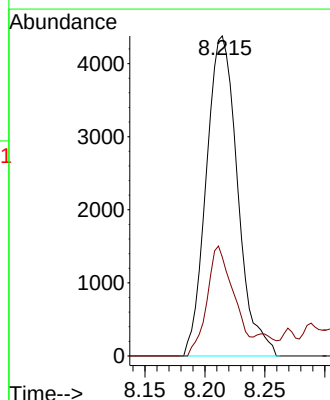
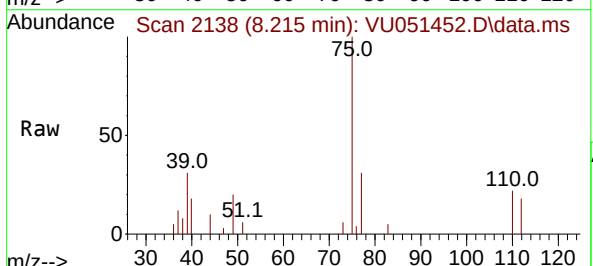
Acq: 19 Oct 2022 12:27

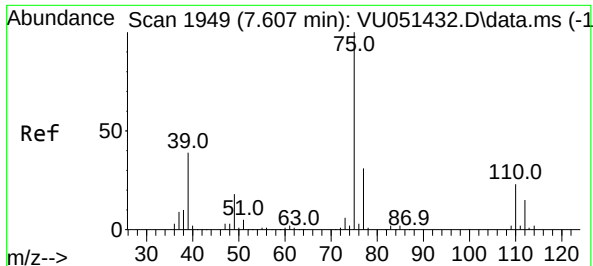
Tgt Ion: 75 Resp: 7949

Ion Ratio Lower Upper

75 100

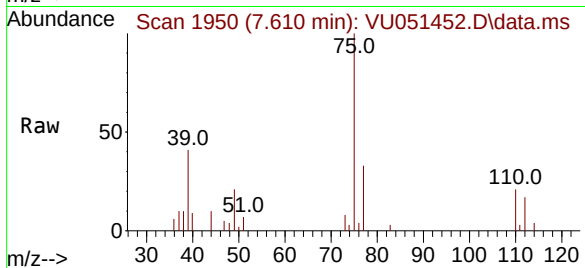
77 30.9 25.8 38.6





#51  
 cis-1,3-Dichloropropene  
 Concen: 0.440 ug/l  
 RT: 7.610 min Scan# 1949  
 Delta R.T. 0.003 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27

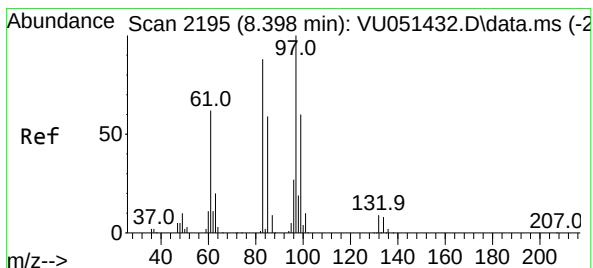
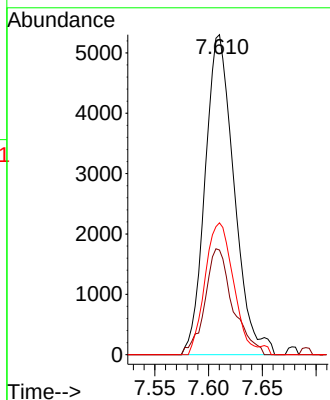
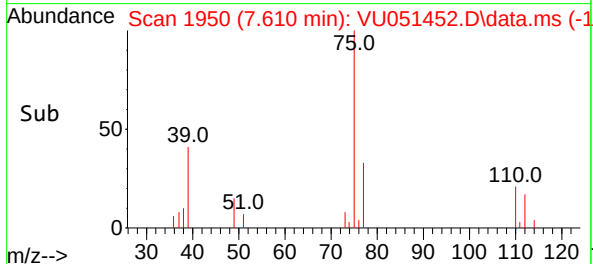
Instrument : MSVOA\_U  
 ClientSampleId : MDL-WATER-03-QT4-2022



Tgt Ion: 75 Resp: 993  
 Ion Ratio Lower Upper  
 75 100  
 77 32.7 25.1 37.7  
 39 41.2 31.4 47.0

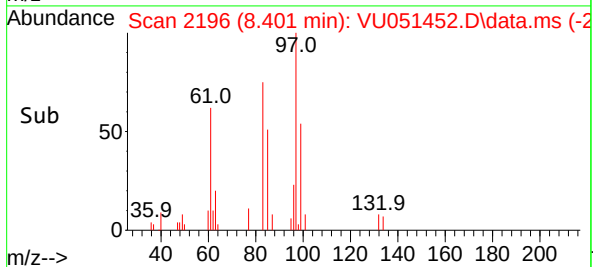
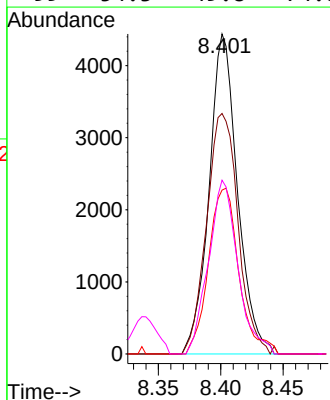
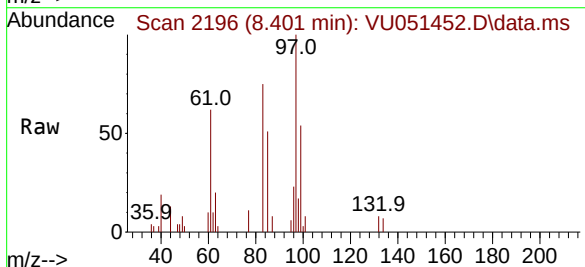
Manual Integrations  
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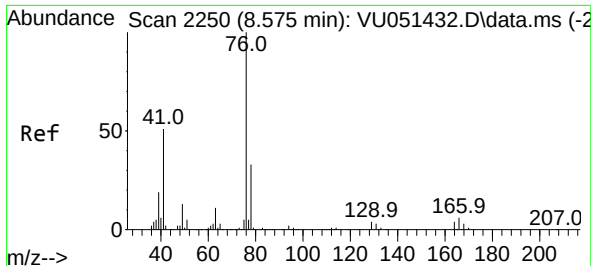
Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/20/2022



#52  
 1,1,2-Trichloroethane  
 Concen: 0.503 ug/l  
 RT: 8.401 min Scan# 2196  
 Delta R.T. 0.003 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27

Tgt Ion: 97 Resp: 7053  
 Ion Ratio Lower Upper  
 97 100  
 83 75.2 70.6 105.8  
 85 51.2 47.0 70.4  
 99 54.3 49.8 74.8





#53

1,3-Dichloropropane

Concen: 0.433 ug/l

RT: 8.578 min Scan# 2250

Delta R.T. 0.003 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

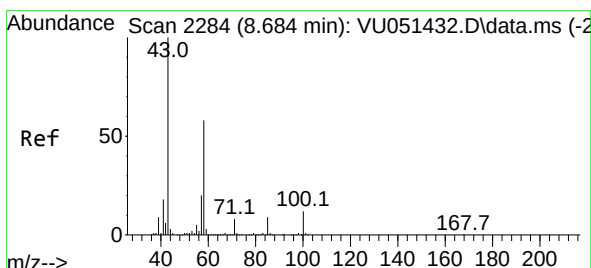
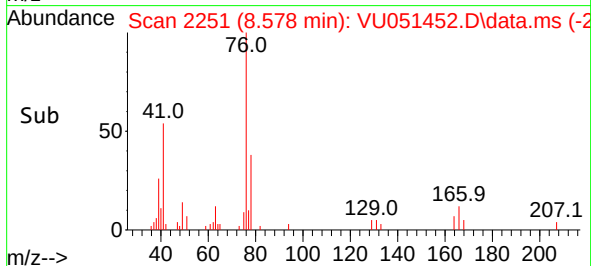
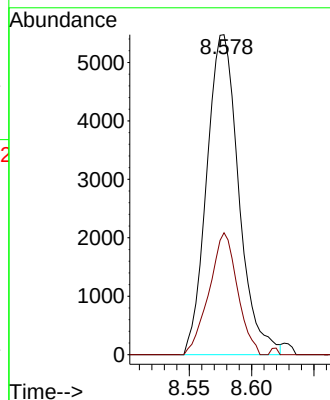
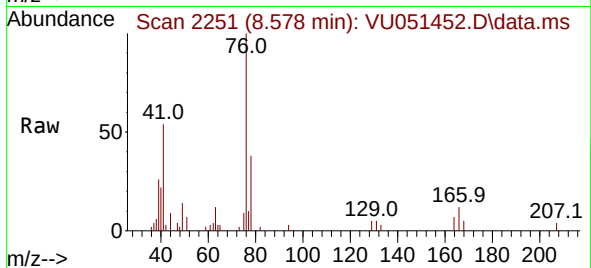
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 76    | Resp: | 979  |
| Ion Ratio | Lower | Upper |      |
| 76        | 100   |       |      |
| 78        | 33.6  | 26.4  | 39.6 |

Manual Integrations

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Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#54

2-Hexanone

Concen: 1.855 ug/l

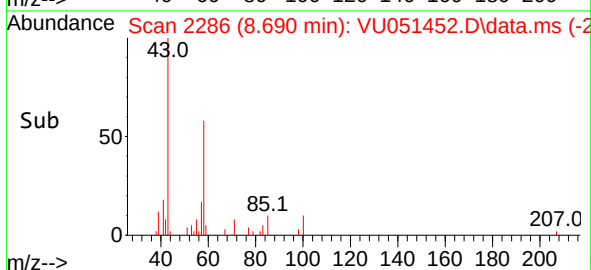
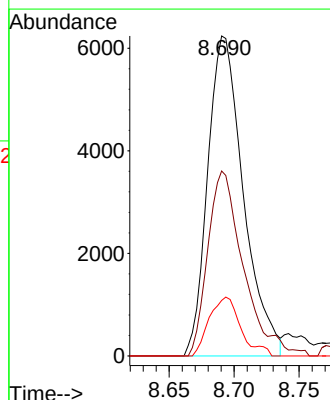
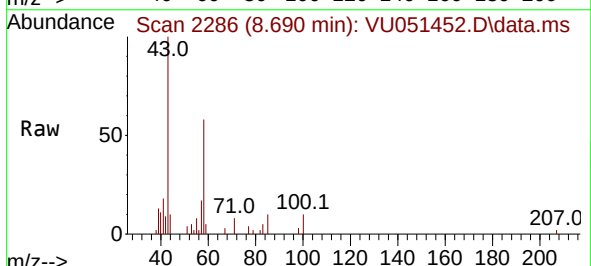
RT: 8.690 min Scan# 2286

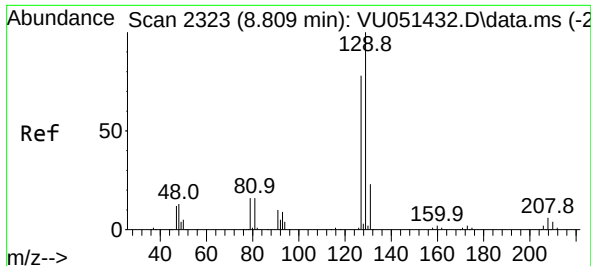
Delta R.T. 0.006 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 11934 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 57.5  | 38.0  | 78.0  |
| 57        | 16.2  | 0.0   | 39.9  |





#55

Dibromochloromethane

Concen: 0.435 ug/l

RT: 8.809 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion:129 Resp: 663

Ion Ratio Lower Upper

129 100

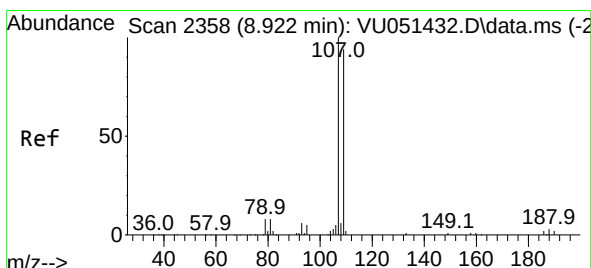
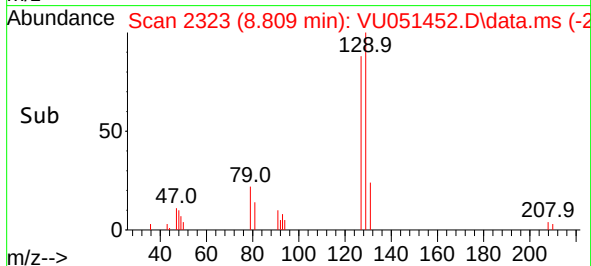
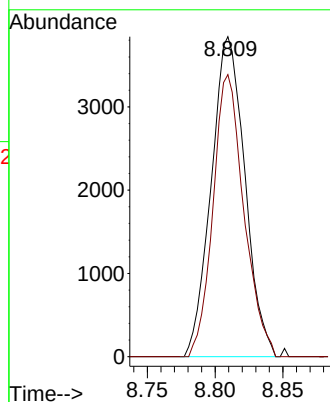
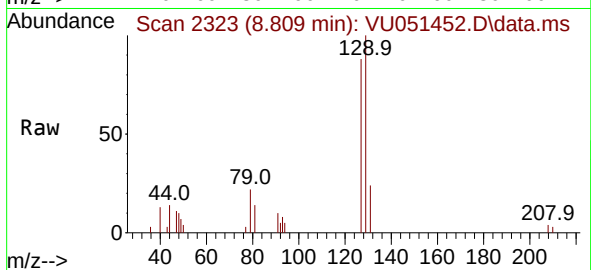
127 80.8 62.1 93.1

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#56

1,2-Dibromoethane

Concen: 0.455 ug/l

RT: 8.928 min Scan# 2360

Delta R.T. 0.007 min

Lab File: VU051452.D

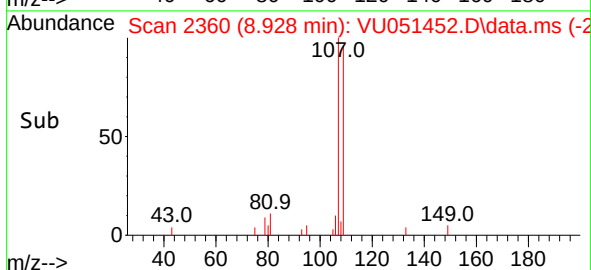
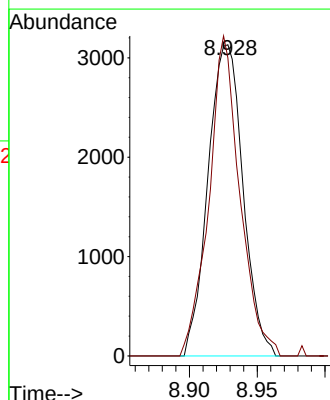
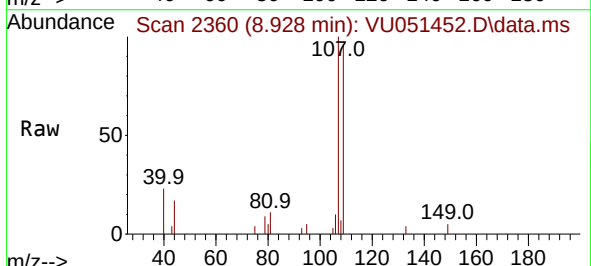
Acq: 19 Oct 2022 12:27

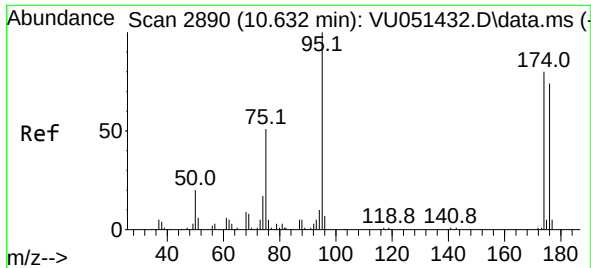
Tgt Ion:107 Resp: 5619

Ion Ratio Lower Upper

107 100

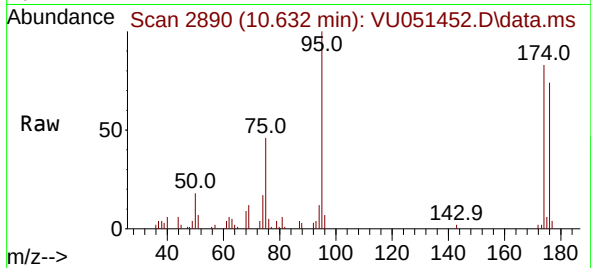
109 90.9 0.0 190.6





#57  
4-Bromofluorobenzene  
Concen: 0.804 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

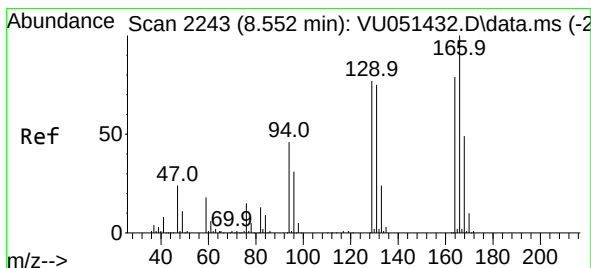
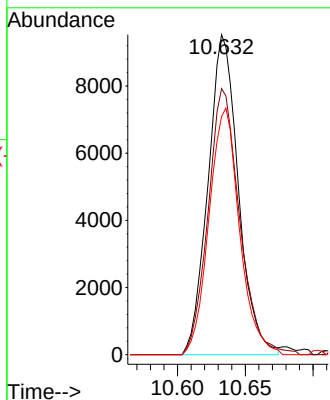
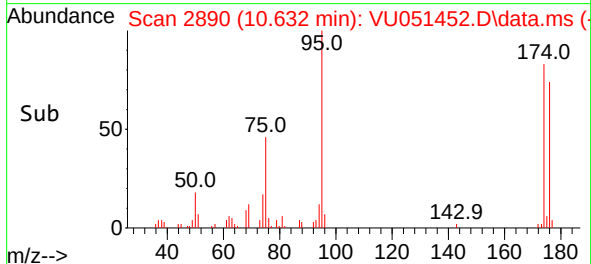
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



Tgt Ion: 95 Resp: 1480  
Ion Ratio Lower Upper  
95 100  
174 86.6 63.0 94.6  
176 77.4 59.8 89.6

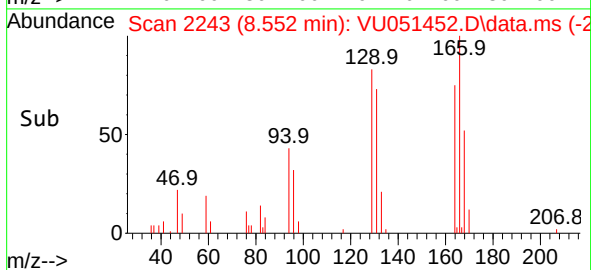
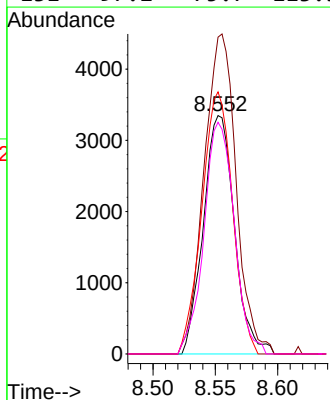
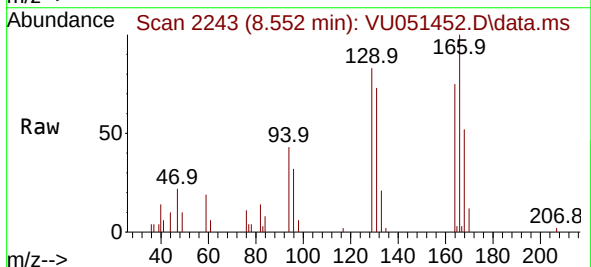
Manual Integrations  
APPROVED

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

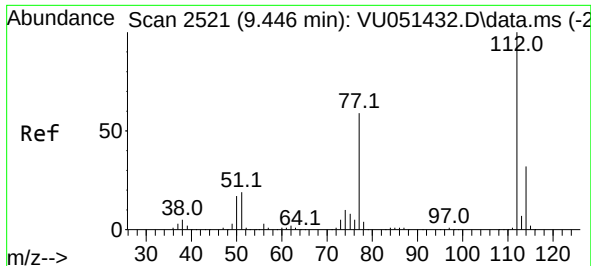


#58  
Tetrachloroethene  
Concen: 0.412 ug/l  
RT: 8.552 min Scan# 2243  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

Tgt Ion:164 Resp: 5813  
Ion Ratio Lower Upper  
164 100  
166 132.9 100.9 151.3  
129 109.9 77.5 116.3  
131 97.2 75.7 113.5







#59

Chlorobenzene

Concen: 0.410 ug/l

RT: 9.449 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT4-2022

Tgt Ion:112 Resp: 1704

Ion Ratio Lower Upper

112 100

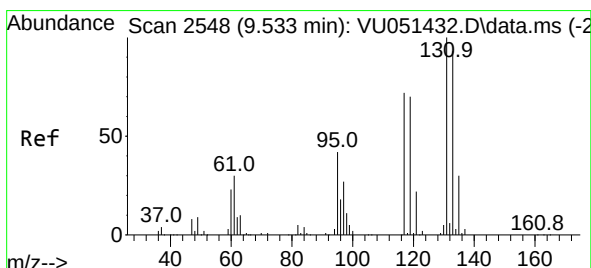
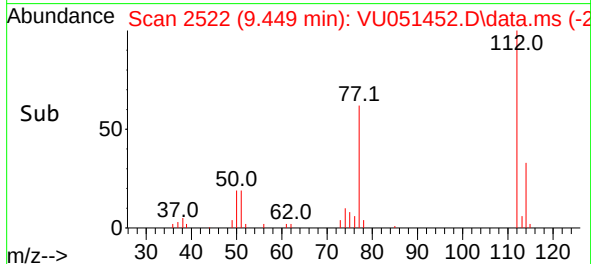
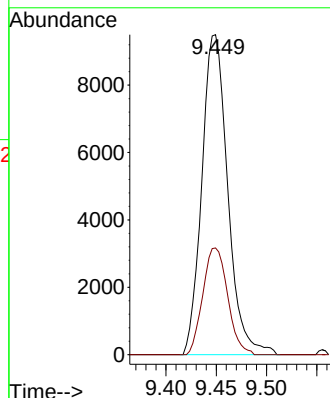
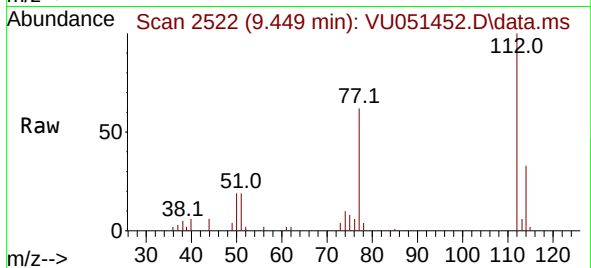
114 33.4 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 10/20/2022

Supervised By :Mahesh Dadoda 10/20/2022



#60

1,1,1,2-Tetrachloroethane

Concen: 0.456 ug/l

RT: 9.533 min Scan# 2548

Delta R.T. 0.000 min

Lab File: VU051452.D

Acq: 19 Oct 2022 12:27

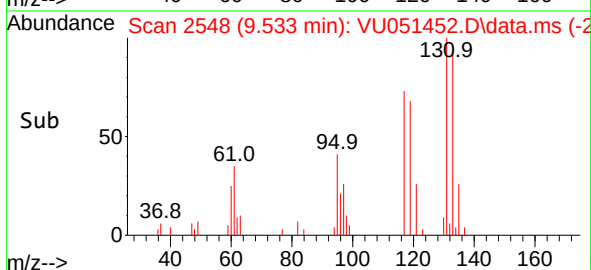
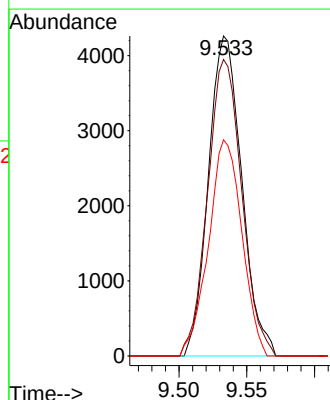
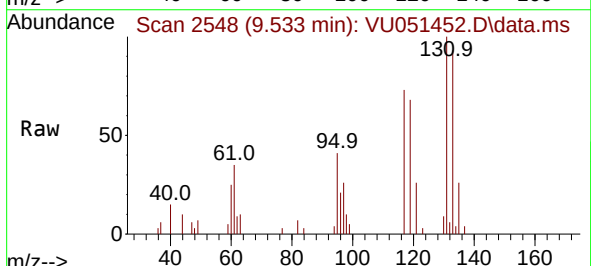
Tgt Ion:131 Resp: 7268

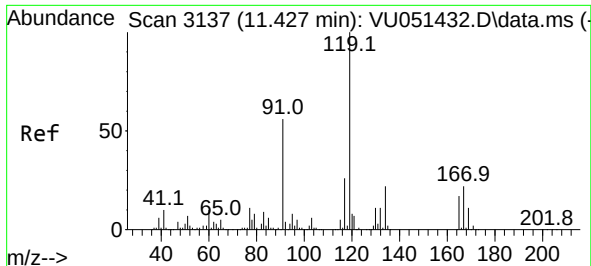
Ion Ratio Lower Upper

131 100

133 95.1 76.5 114.7

119 67.7 56.5 84.7





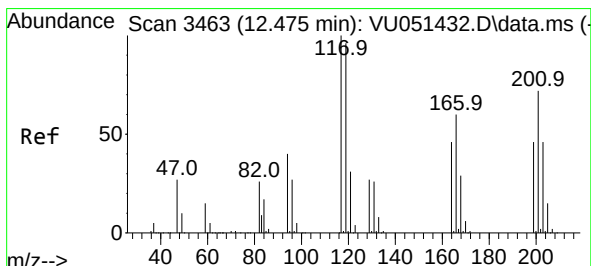
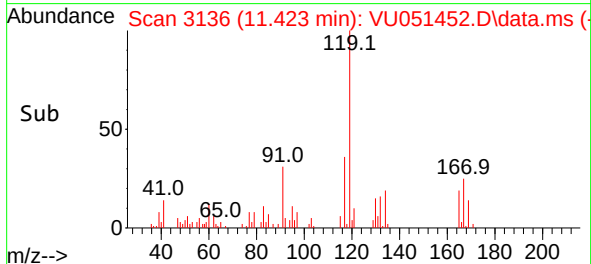
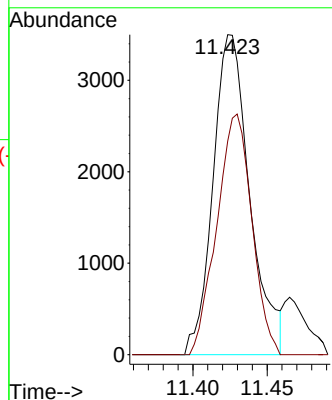
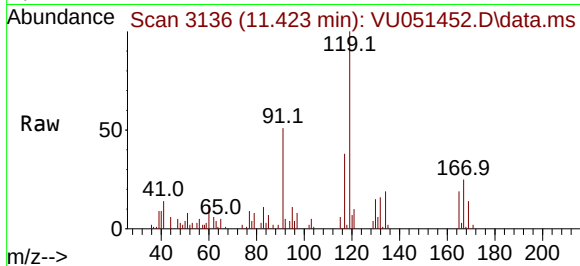
#61  
Pentachloroethane  
Concen: 0.425 ug/l  
RT: 11.423 min Scan# 3137  
Delta R.T. -0.004 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

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

Tgt Ion:117 Resp: 602  
Ion Ratio Lower Upper  
117 100  
167 71.7 63.3 94.9

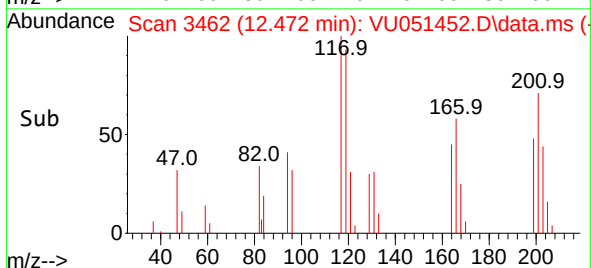
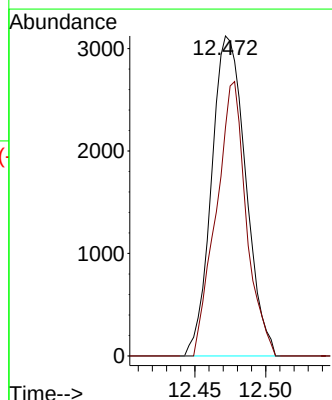
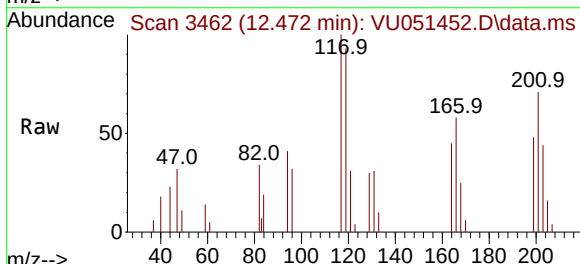
Manual Integrations  
APPROVED

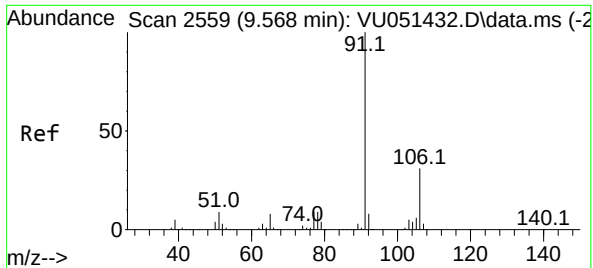
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#62  
Hexachloroethane  
Concen: 0.388 ug/l  
RT: 12.472 min Scan# 3462  
Delta R.T. -0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

Tgt Ion:117 Resp: 5231  
Ion Ratio Lower Upper  
117 100  
201 75.7 57.4 86.2





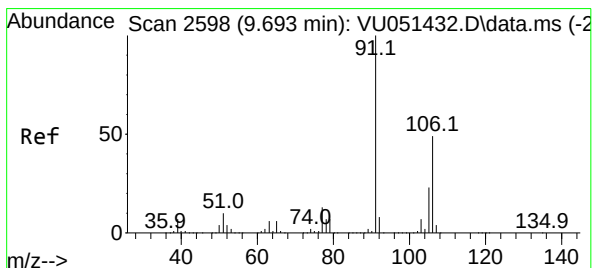
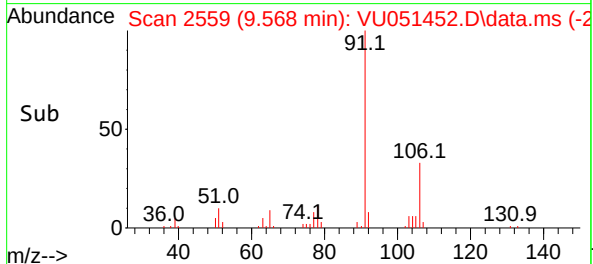
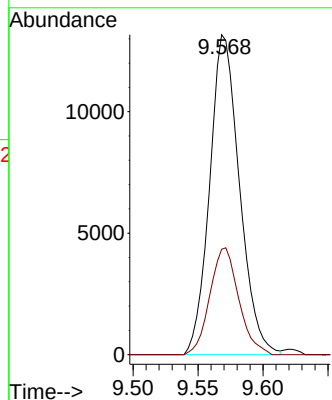
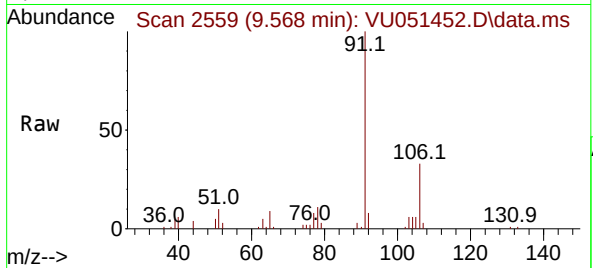
#63  
Ethyl Benzene  
Concen: 0.334 ug/l  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

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

Tgt Ion: 91 Resp: 2102  
Ion Ratio Lower Upper  
91 100  
106 32.9 24.9 37.3

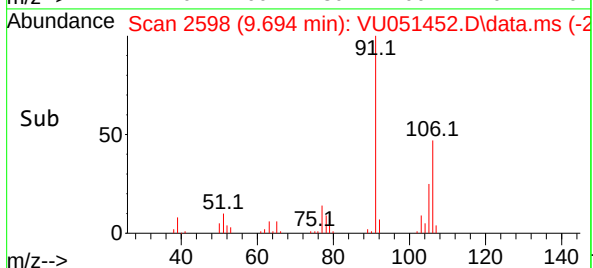
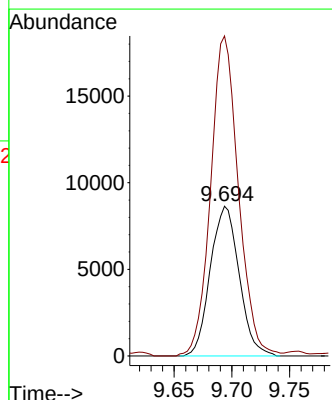
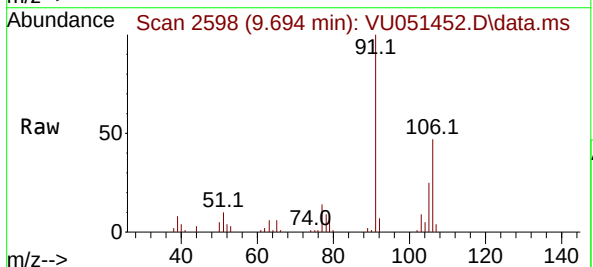
Manual Integrations  
APPROVED

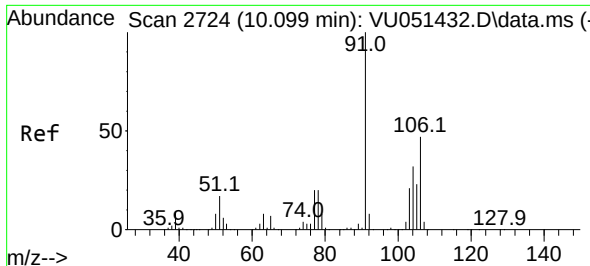
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#64  
m/p-Xylenes  
Concen: 0.597 ug/l  
RT: 9.694 min Scan# 2598  
Delta R.T. 0.001 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

Tgt Ion:106 Resp: 14999  
Ion Ratio Lower Upper  
106 100  
91 206.0 163.2 244.8





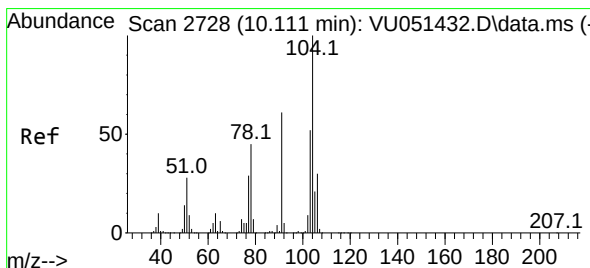
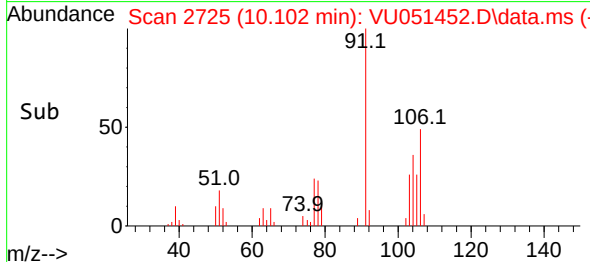
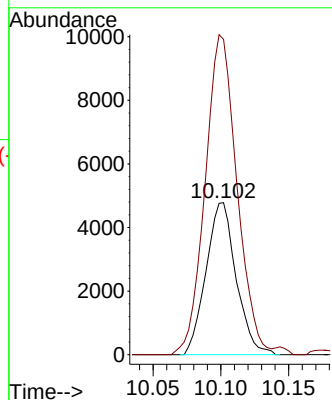
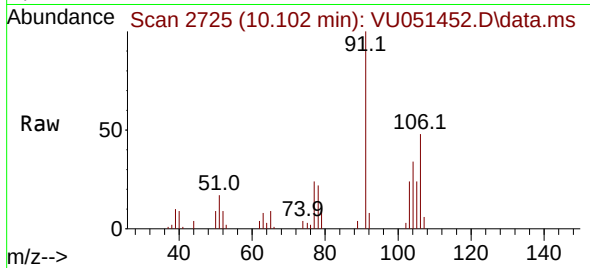
#65  
o-Xylene  
Concen: 0.302 ug/l  
RT: 10.102 min Scan# 2725  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

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

Tgt Ion:106 Resp: 7375  
Ion Ratio Lower Upper  
106 100  
91 222.3 107.1 321.3

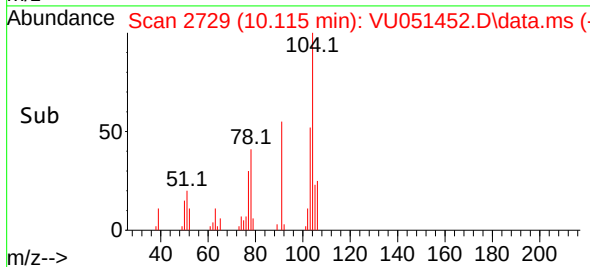
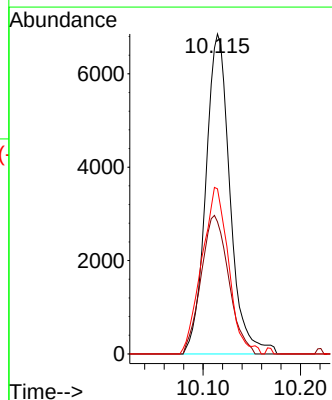
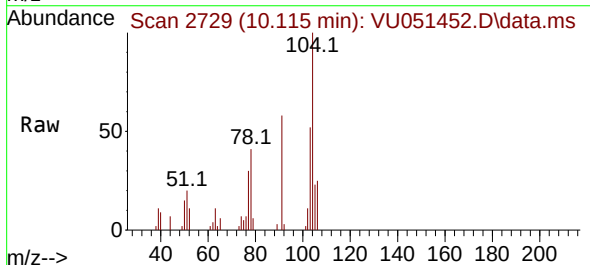
Manual Integrations  
APPROVED

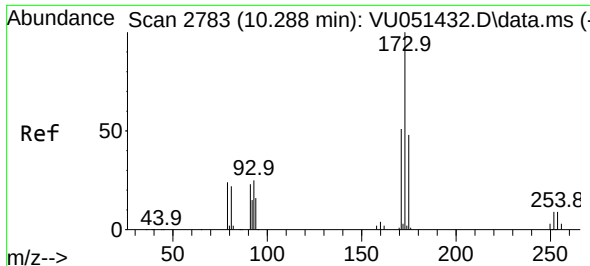
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#66  
Styrene  
Concen: 0.293 ug/l  
RT: 10.115 min Scan# 2729  
Delta R.T. 0.004 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

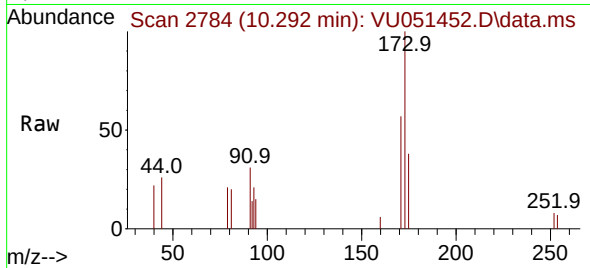
Tgt Ion:104 Resp: 11861  
Ion Ratio Lower Upper  
104 100  
78 49.2 39.7 59.5  
103 57.6 44.4 66.6





#67  
Bromoform  
Concen: 0.479 ug/l  
RT: 10.292 min Scan# 2784  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

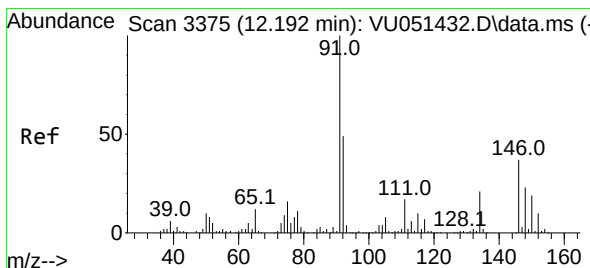
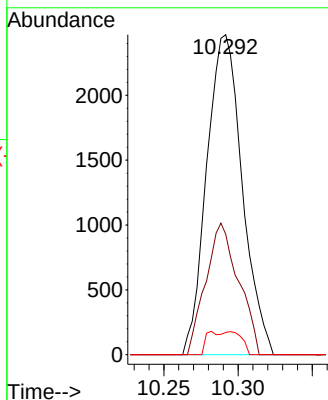
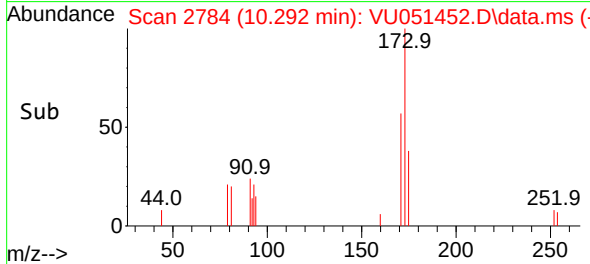
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



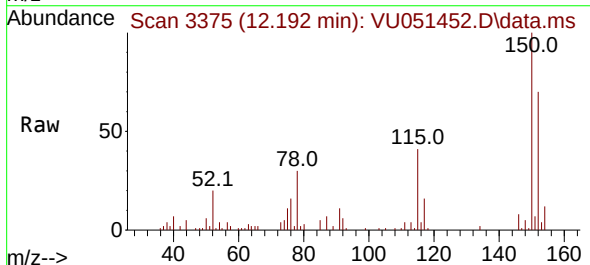
Tgt Ion:173 Resp: 4104  
Ion Ratio Lower Upper  
173 100  
175 38.0 38.6 58.0  
254 2.3 7.3 10.9

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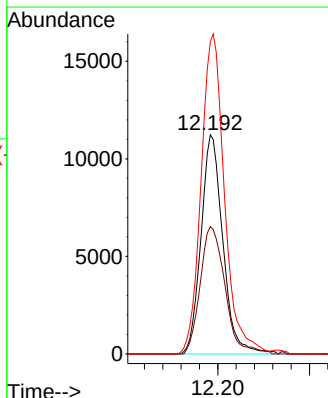
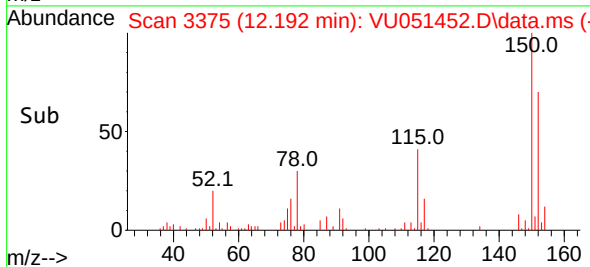
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

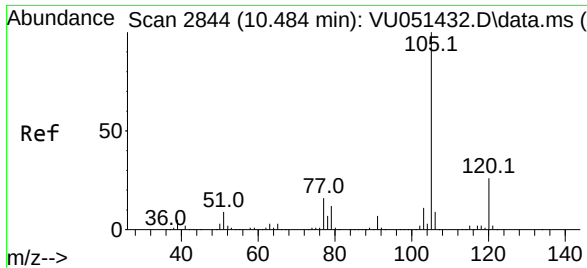


#68  
1,2-Dichlorobenzene-d4  
Concen: 0.903 ug/l  
RT: 12.192 min Scan# 3375  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



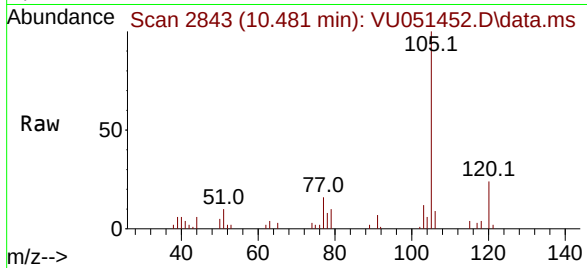
Tgt Ion:152 Resp: 18573  
Ion Ratio Lower Upper  
152 100  
115 65.9 0.0 333.0  
150 156.1 0.0 662.0





#69  
Isopropylbenzene  
Concen: 0.303 ug/l  
RT: 10.481 min Scan# 2843  
Delta R.T. -0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

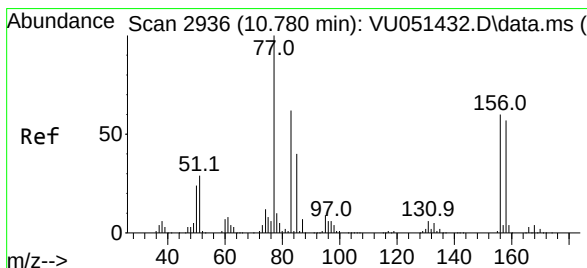
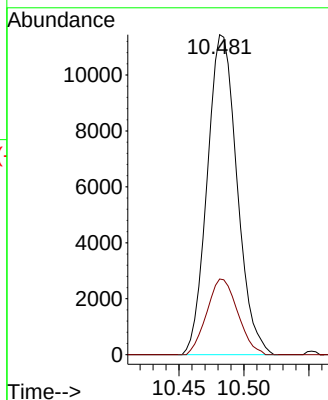
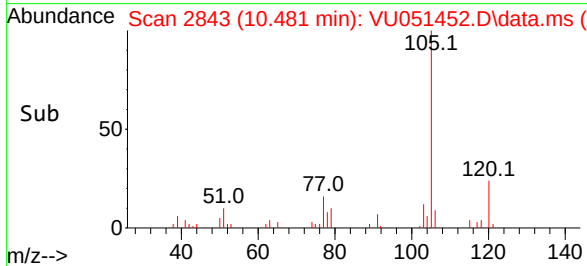
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



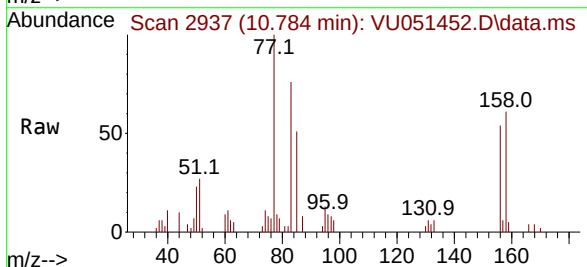
Tgt Ion:105 Resp: 1823  
Ion Ratio Lower Upper  
105 100  
120 24.5 13.0 39.0

Manual Integrations  
APPROVED

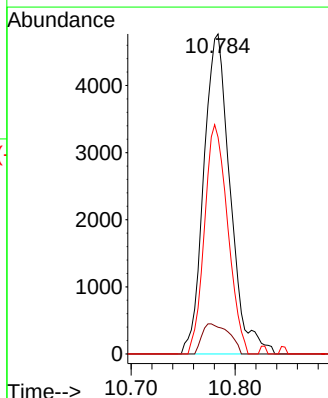
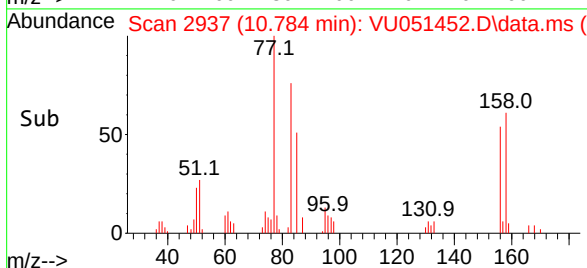
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

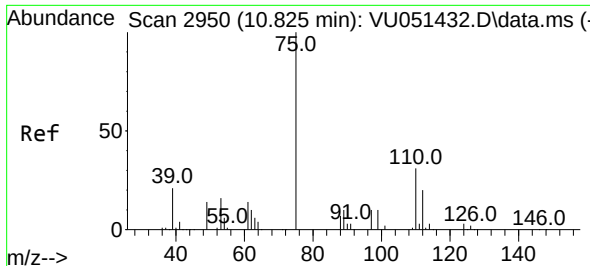


#70  
1,1,2,2-Tetrachloroethane  
Concen: 0.443 ug/l  
RT: 10.784 min Scan# 2937  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



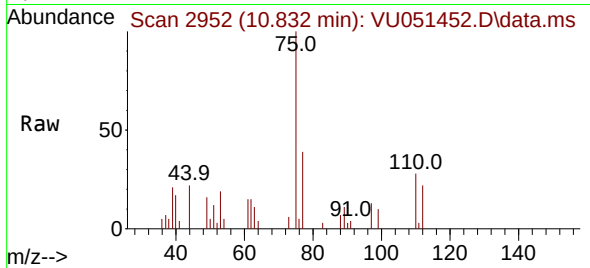
Tgt Ion: 83 Resp: 8406  
Ion Ratio Lower Upper  
83 100  
131 9.6 7.2 10.8  
85 63.1 51.4 77.2





#71  
1,2,3-Trichloropropane  
Concen: 0.352 ug/l m  
RT: 10.832 min Scan# 2950  
Delta R.T. 0.007 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

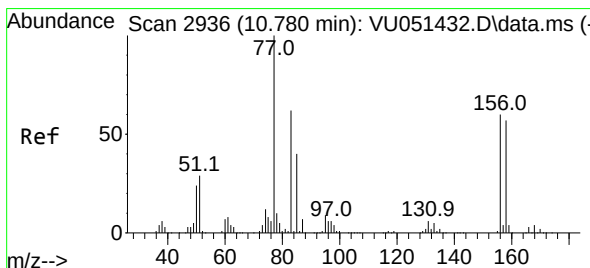
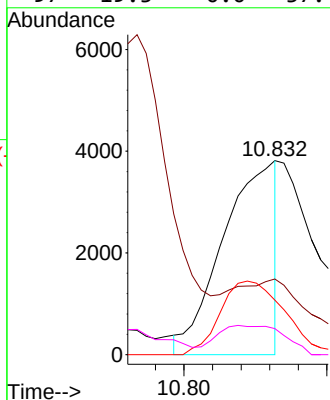
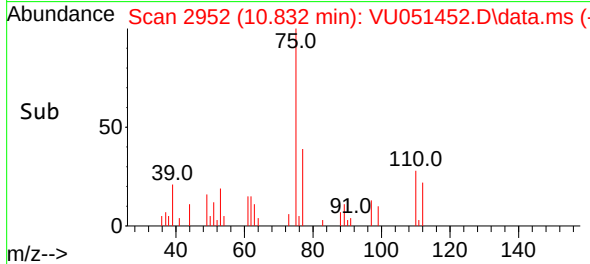
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



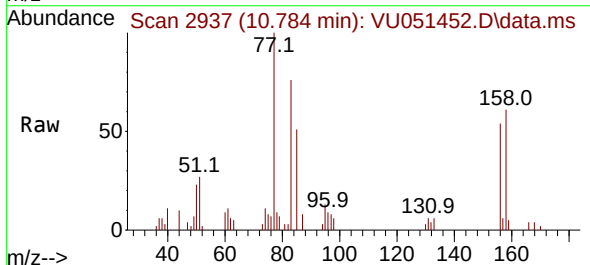
| Tgt Ion:  | 75   | Resp: | 4960  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 75        | 100  | 0.0   | 111.0 |
| 110       | 45.7 | 0.0   | 70.2  |
| 97        | 19.3 | 0.0   | 37.4  |

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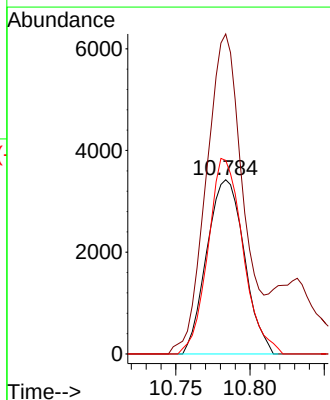
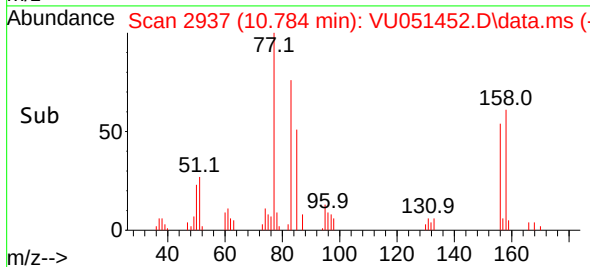
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

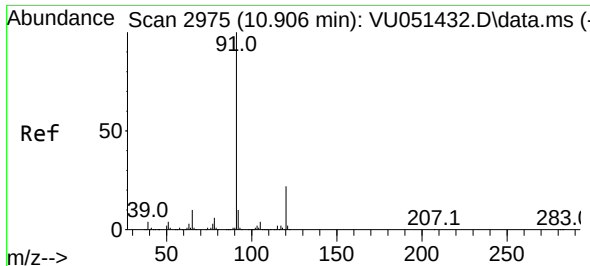


#72  
Bromobenzene  
Concen: 0.364 ug/l  
RT: 10.784 min Scan# 2937  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



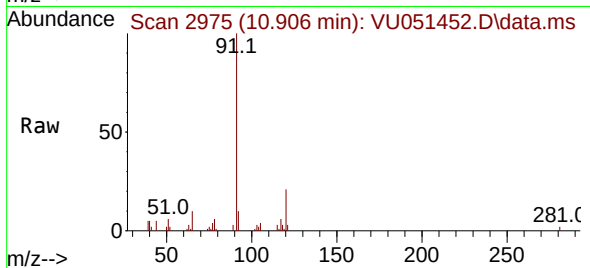
| Tgt Ion:  | 156   | Resp: | 6015  |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 156       | 100   | 0.0   | 343.4 |
| 77        | 178.7 | 0.0   | 195.6 |
| 158       | 104.7 | 0.0   | 195.6 |





#73  
n-propylbenzene  
Concen: 0.277 ug/l  
RT: 10.906 min Scan# 2975  
Delta R.T. -0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

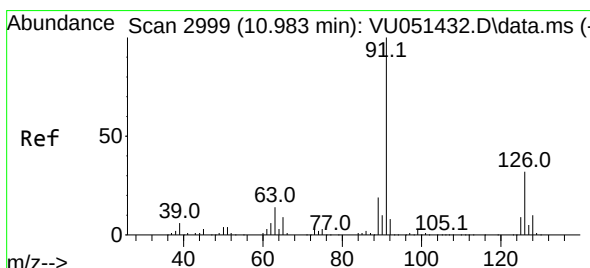
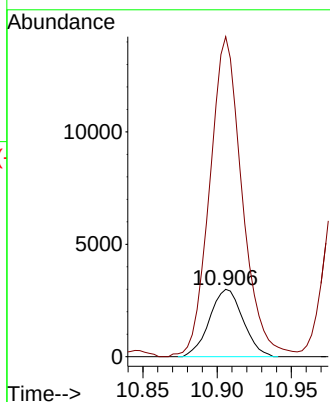
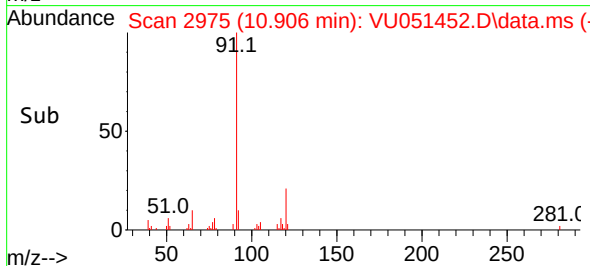
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



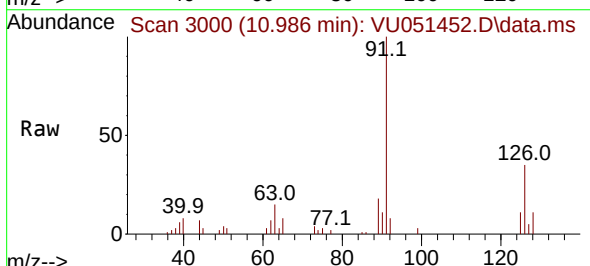
Tgt Ion:120 Resp: 4693  
Ion Ratio Lower Upper  
120 100  
91 461.7 362.3 543.5

Manual Integrations  
APPROVED

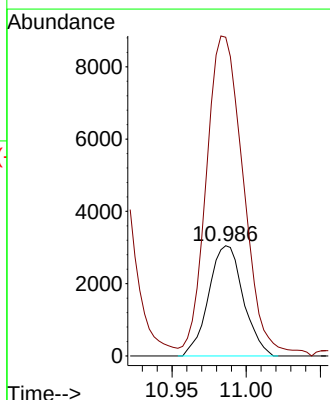
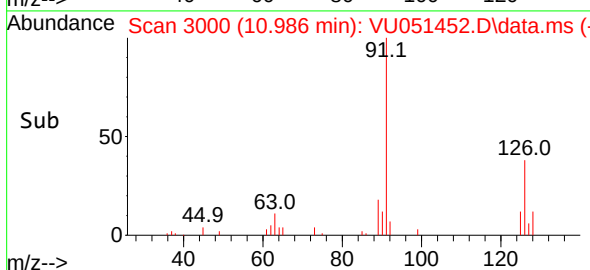
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



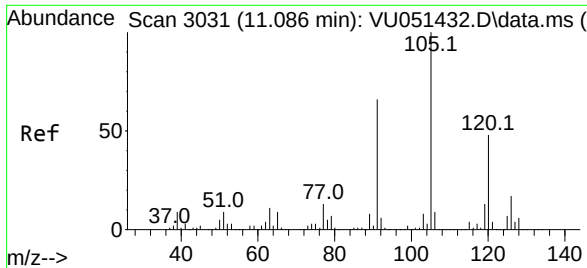
#74  
2-Chlorotoluene  
Concen: 0.307 ug/l  
RT: 10.986 min Scan# 3000  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



Tgt Ion:126 Resp: 4936  
Ion Ratio Lower Upper  
126 100  
91 311.8 0.0 623.2

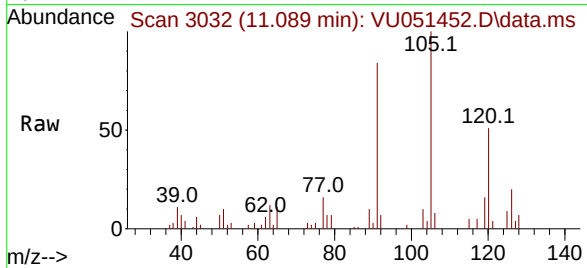






#75  
1,3,5-Trimethylbenzene  
Concen: 0.267 ug/l  
RT: 11.089 min Scan# 3031  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

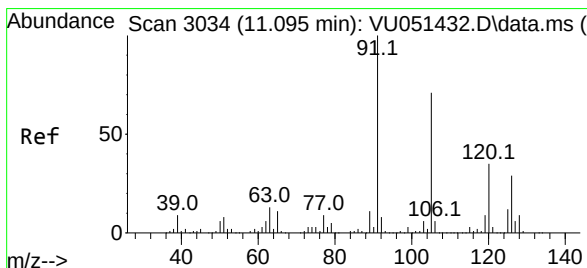
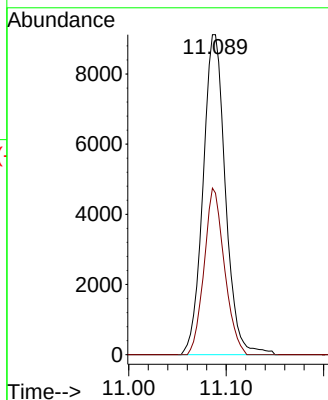
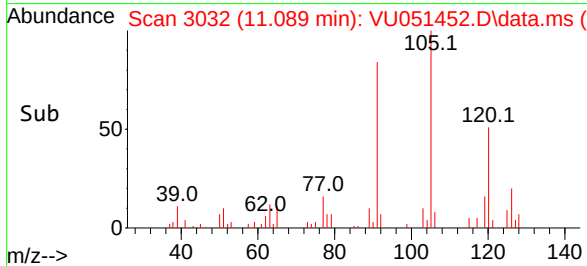
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



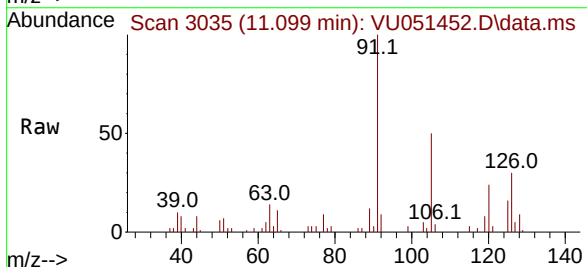
Tgt Ion:105 Resp: 1455  
Ion Ratio Lower Upper  
105 100  
120 47.2 38.2 57.4

Manual Integrations  
APPROVED

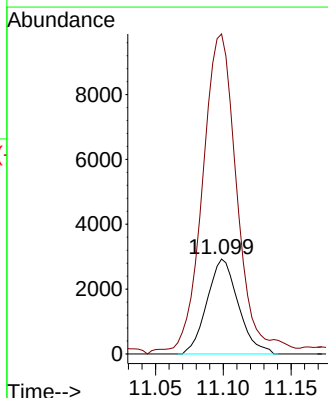
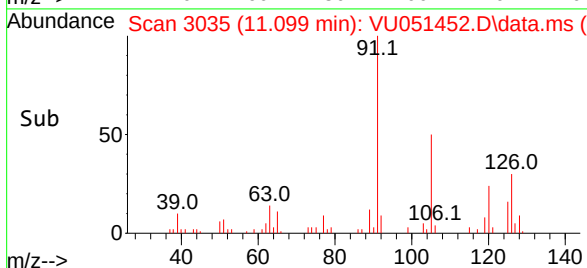
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

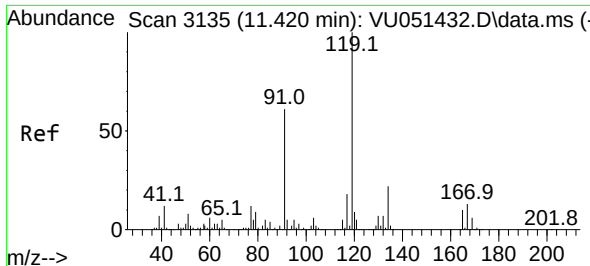


#76  
4-Chlorotoluene  
Concen: 0.285 ug/l  
RT: 11.099 min Scan# 3035  
Delta R.T. 0.004 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



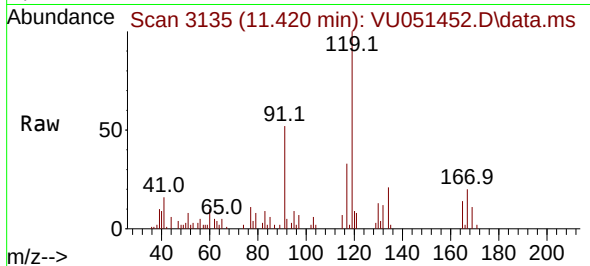
Tgt Ion:126 Resp: 4695  
Ion Ratio Lower Upper  
126 100  
91 373.7 0.0 717.6





#77  
tert-Butylbenzene  
Concen: 0.309 ug/l  
RT: 11.420 min Scan# 3135  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

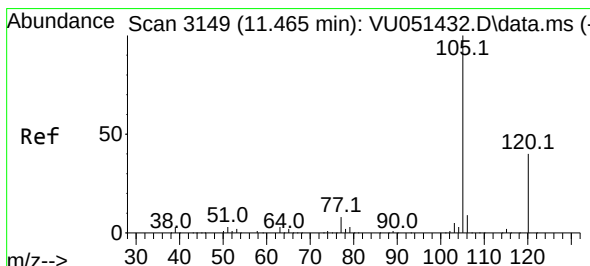
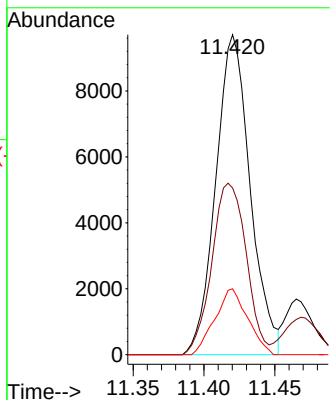
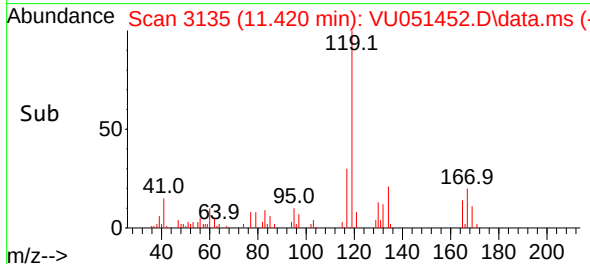
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



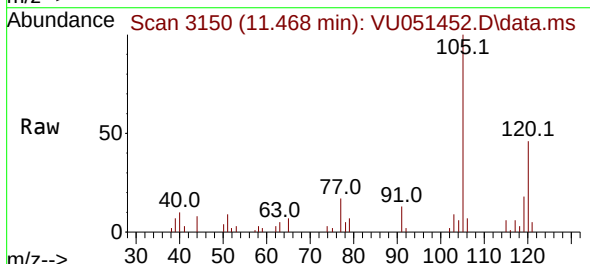
Tgt Ion:119 Resp: 16438  
Ion Ratio Lower Upper  
119 100  
91 53.5 29.8 89.5  
134 19.6 17.9 26.9

Manual Integrations  
APPROVED

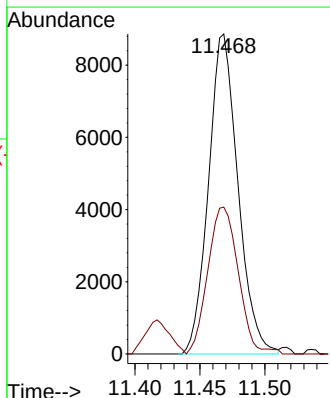
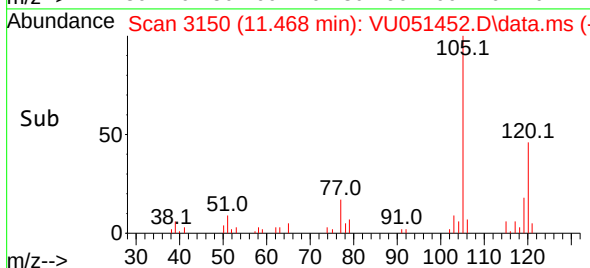
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

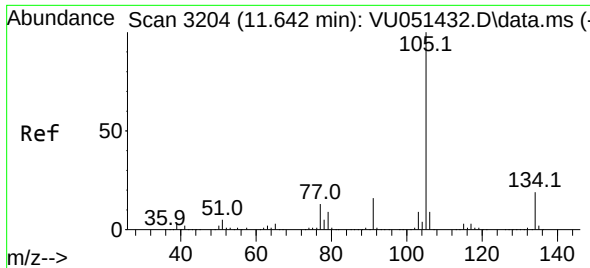


#78  
1,2,4-Trimethylbenzene  
Concen: 0.246 ug/l  
RT: 11.468 min Scan# 3150  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



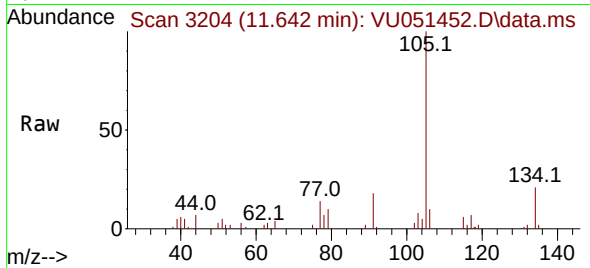
Tgt Ion:105 Resp: 13973  
Ion Ratio Lower Upper  
105 100  
120 47.5 22.1 66.3





#79  
 sec-Butylbenzene  
 Concen: 0.265 ug/l  
 RT: 11.642 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27

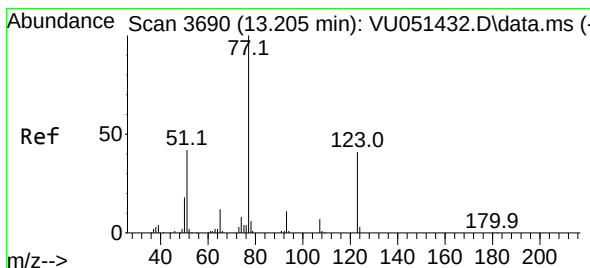
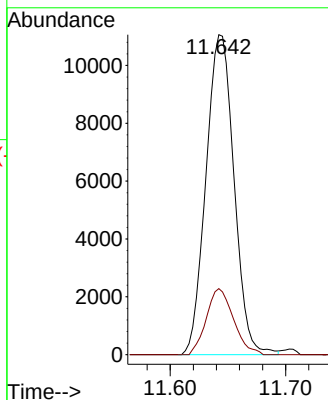
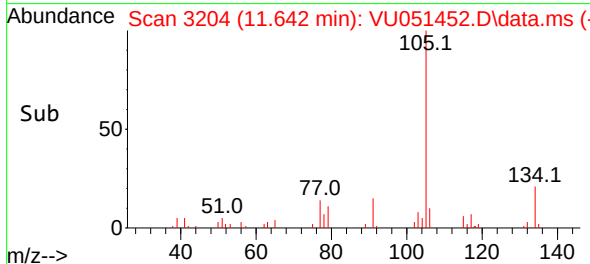
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT4-2022



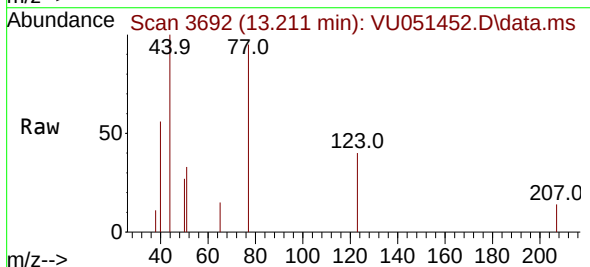
Tgt Ion:105 Resp: 1868  
 Ion Ratio Lower Upper  
 105 100  
 134 19.9 15.2 22.8

Manual Integrations  
 APPROVED

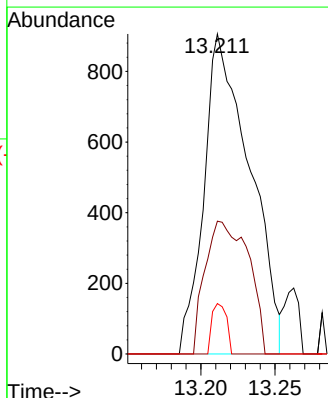
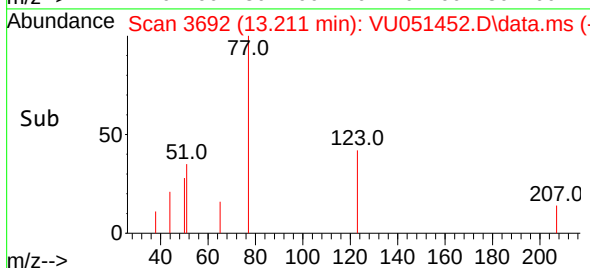
Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/20/2022

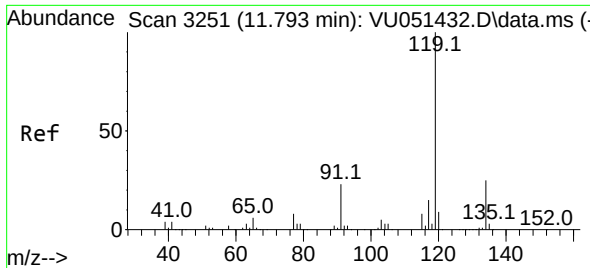


#80  
 Nitrobenzene  
 Concen: 2.064 ug/l m  
 RT: 13.211 min Scan# 3692  
 Delta R.T. 0.007 min  
 Lab File: VU051452.D  
 Acq: 19 Oct 2022 12:27



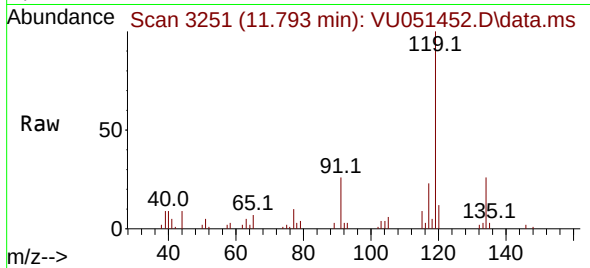
Tgt Ion: 77 Resp: 1940  
 Ion Ratio Lower Upper  
 77 100  
 123 39.4 17.5 62.1  
 65 5.0 11.1 14.1#





#81  
p-Isopropyltoluene  
Concen: 0.241 ug/l  
RT: 11.793 min Scan# 3251  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

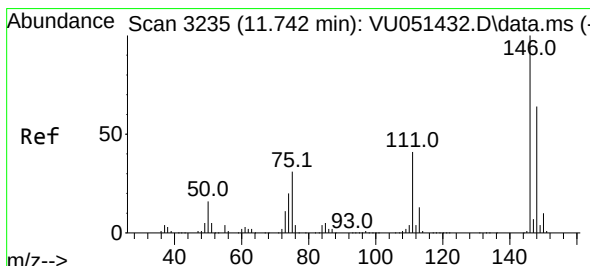
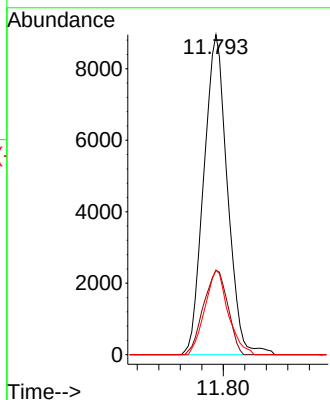
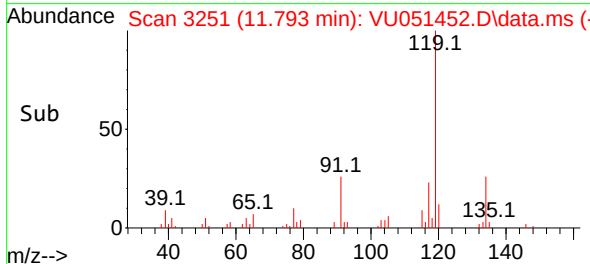
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



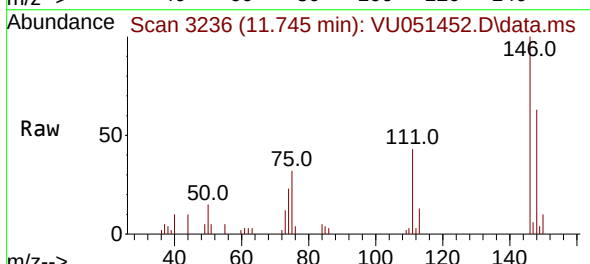
Tgt Ion:119 Resp: 1361  
Ion Ratio Lower Upper  
119 100  
134 27.0 20.3 30.5  
91 25.9 18.6 27.8

Manual Integrations  
APPROVED

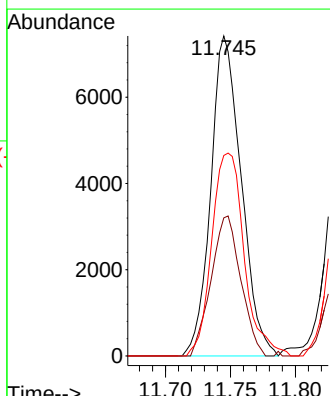
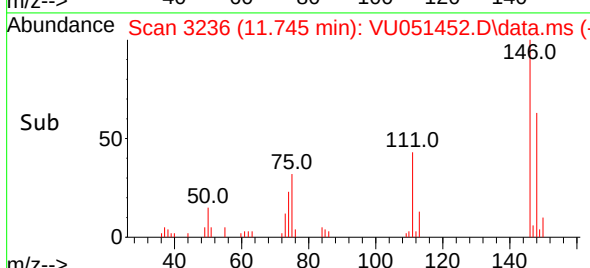
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

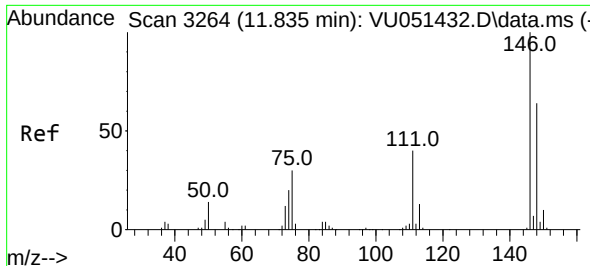


#82  
1,3-Dichlorobenzene  
Concen: 0.341 ug/l  
RT: 11.745 min Scan# 3236  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



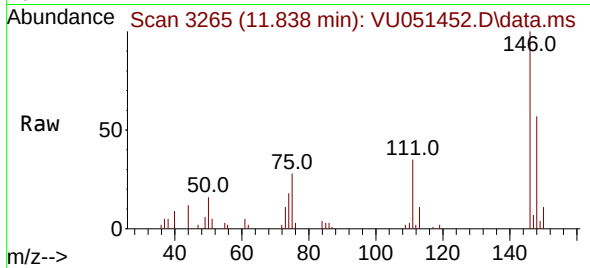
Tgt Ion:146 Resp: 12091  
Ion Ratio Lower Upper  
146 100  
111 42.6 33.4 50.0  
148 67.5 51.0 76.6





#83  
1,4-Dichlorobenzene  
Concen: 0.358 ug/l  
RT: 11.838 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

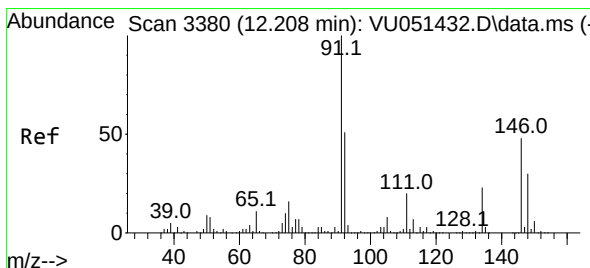
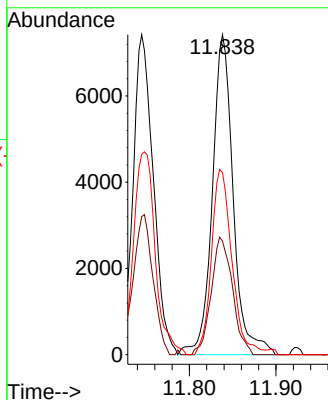
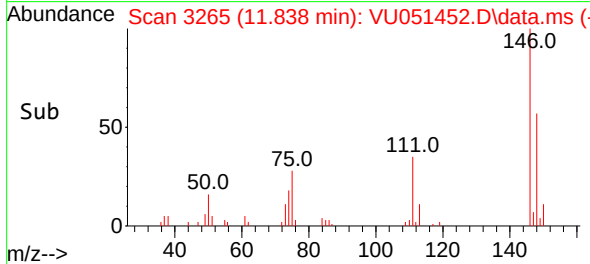
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



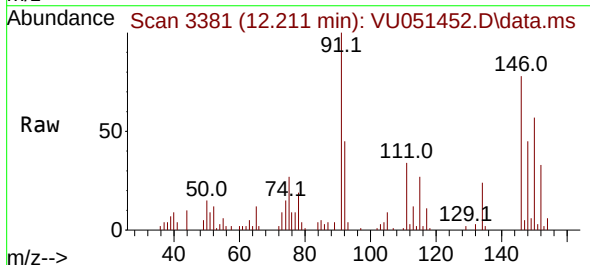
Tgt Ion:146 Resp: 1243  
Ion Ratio Lower Upper  
146 100  
111 37.3 31.6 47.4  
148 56.8 50.5 75.7

Manual Integrations  
APPROVED

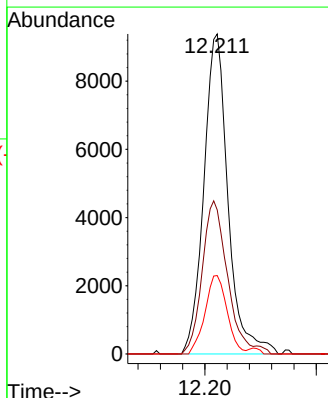
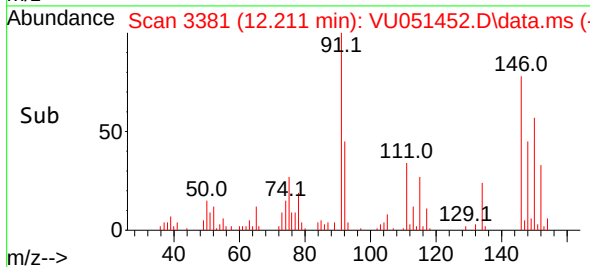
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

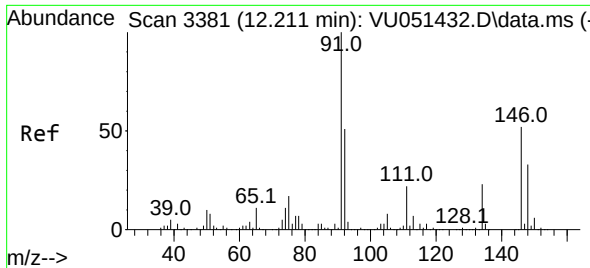


#84  
n-Butylbenzene  
Concen: 0.253 ug/l  
RT: 12.211 min Scan# 3381  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



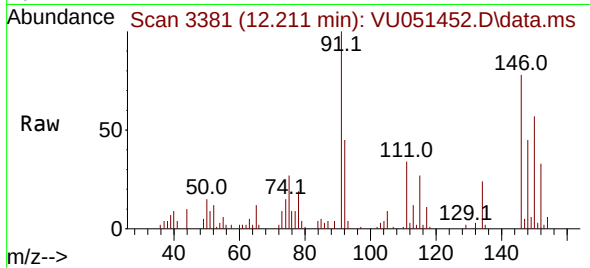
Tgt Ion: 91 Resp: 14154  
Ion Ratio Lower Upper  
91 100  
92 50.3 40.6 61.0  
134 22.4 18.3 27.5





#85  
1,2-Dichlorobenzene  
Concen: 0.351 ug/l  
RT: 12.211 min Scan# 3381  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

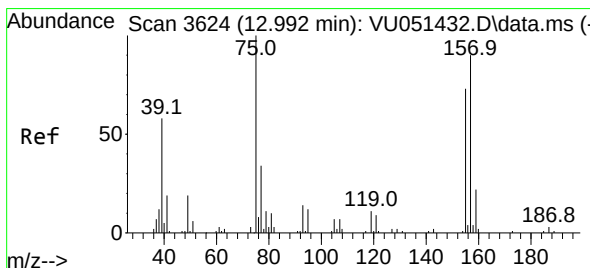
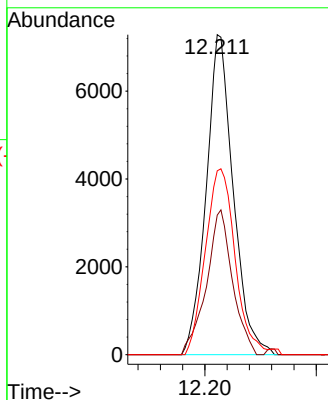
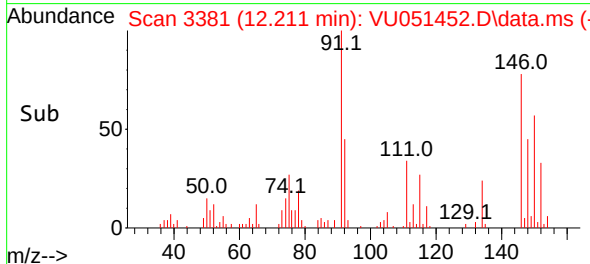
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT4-2022



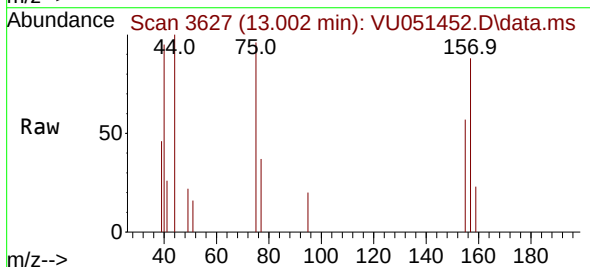
Tgt Ion:146 Resp: 1228  
Ion Ratio Lower Upper  
146 100  
111 43.6 21.3 63.9  
148 64.3 31.8 95.4

Manual Integrations  
APPROVED

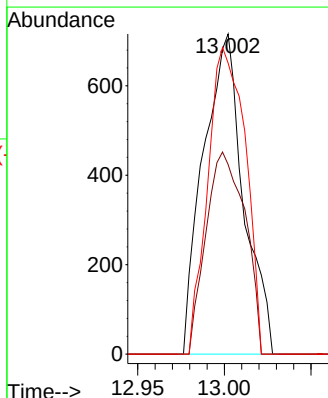
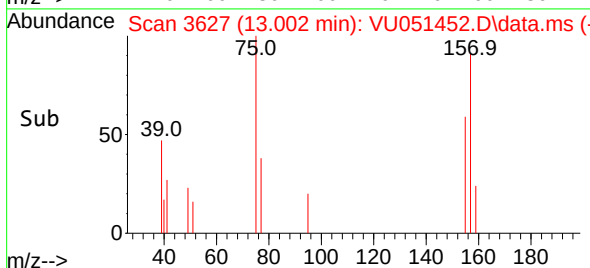
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022

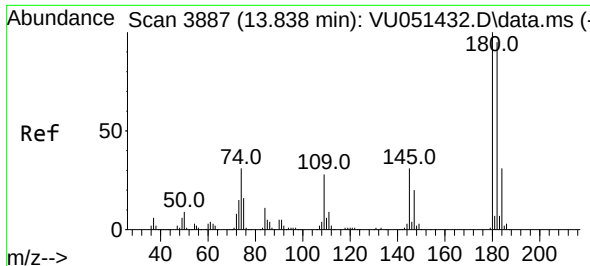


#86  
1,2-Dibromo-3-Chloropropane  
Concen: 0.388 ug/l  
RT: 13.002 min Scan# 3627  
Delta R.T. 0.010 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



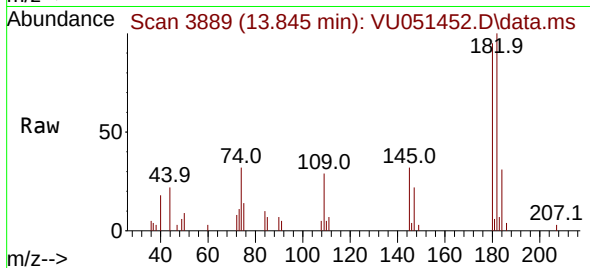
Tgt Ion: 75 Resp: 1153  
Ion Ratio Lower Upper  
75 100  
155 61.7 58.5 87.7  
157 89.7 75.3 112.9





#87  
1,2,4-Trichlorobenzene  
Concen: 0.323 ug/l  
RT: 13.845 min Scan# 3889  
Delta R.T. 0.007 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

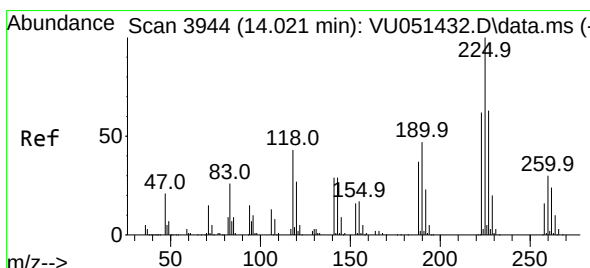
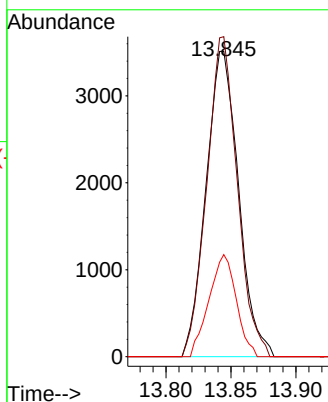
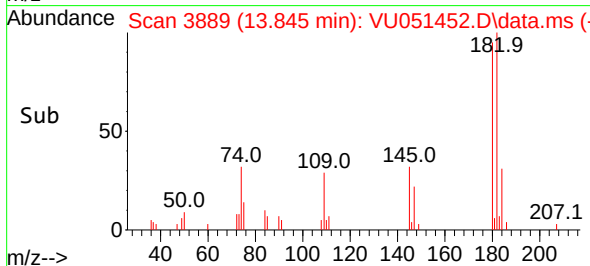
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



Tgt Ion:180 Resp: 6110  
Ion Ratio Lower Upper  
180 100  
182 98.1 75.9 113.9  
145 28.0 24.9 37.3

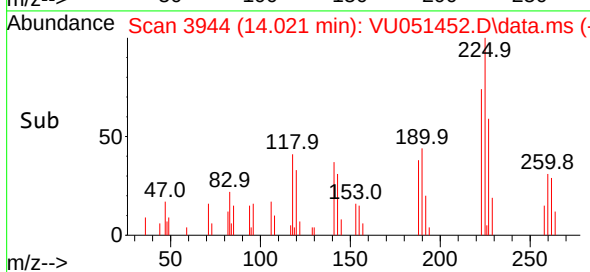
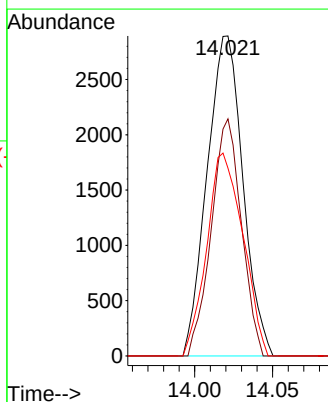
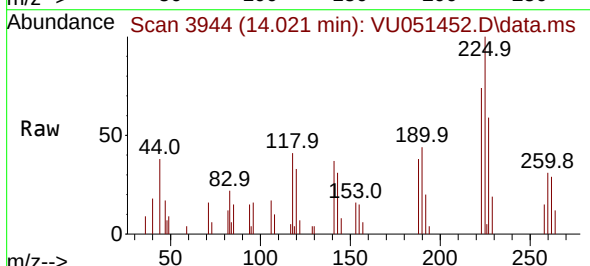
Manual Integrations  
APPROVED

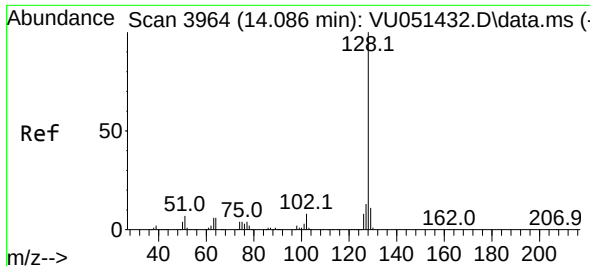
Reviewed By :Krupa Patel 10/20/2022  
Supervised By :Mahesh Dadoda 10/20/2022



#88  
Hexachlorobutadiene  
Concen: 0.375 ug/l  
RT: 14.021 min Scan# 3944  
Delta R.T. 0.000 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

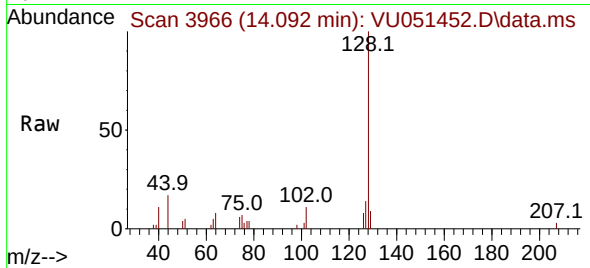
Tgt Ion:225 Resp: 4628  
Ion Ratio Lower Upper  
225 100  
223 62.1 50.1 75.1  
227 64.0 51.4 77.2





#89  
Naphthalene  
Concen: 0.308 ug/l  
RT: 14.092 min Scan# 3966  
Delta R.T. 0.006 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27

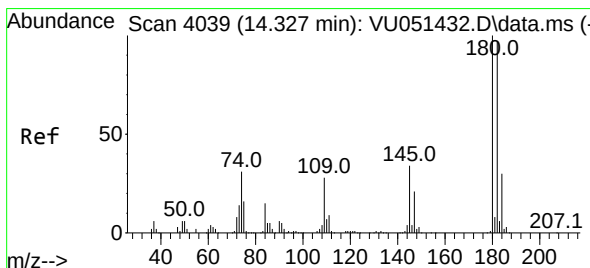
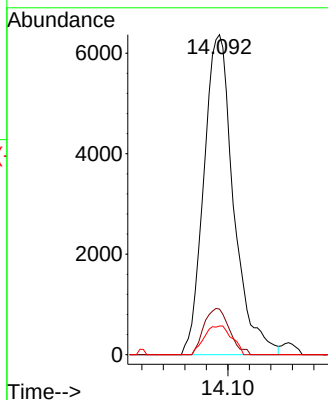
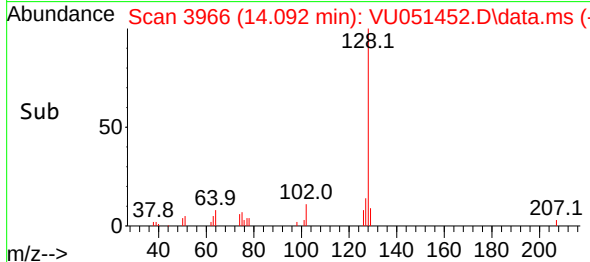
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT4-2022



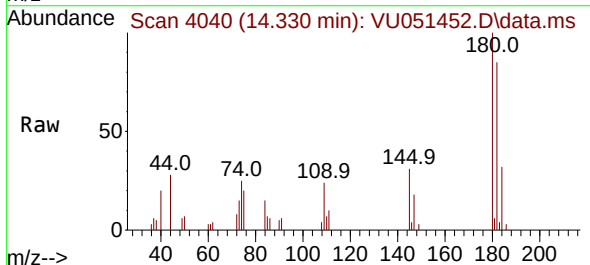
Tgt Ion:128 Resp: 12220  
Ion Ratio Lower Upper  
128 100  
127 12.3 10.7 16.1  
129 8.3 8.4 12.6

Manual Integrations  
APPROVED

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



#90  
1,2,3-Trichlorobenzene  
Concen: 0.309 ug/l  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.003 min  
Lab File: VU051452.D  
Acq: 19 Oct 2022 12:27



Tgt Ion:180 Resp: 6413  
Ion Ratio Lower Upper  
180 100  
182 87.7 75.8 113.6  
145 28.4 26.6 39.8

