

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU072423\  
 Data File : VU054856.D  
 Acq On : 24 Jul 2023 13:25  
 Operator : MD/SY  
 Sample : 03572-08  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 LOQ-WATER-02-QT3-2023

Quant Time: Jul 25 06:03:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072123DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jul 25 05:02:28 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/25/2023  
 Supervised By : Mahesh Dadoda 07/31/2023

| Compound                     | R.T.   | QIon | Response | Conc  | Units    | Dev(Min) |
|------------------------------|--------|------|----------|-------|----------|----------|
| -----                        |        |      |          |       |          |          |
| Internal Standards           |        |      |          |       |          |          |
| 1) Fluorobenzene             | 6.113  | 96   | 25374    | 1.000 | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |          |          |
| 57) 4-Bromofluorobenzene     | 10.630 | 95   | 7852     | 1.025 | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 102.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 9008     | 1.015 | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 102.000% |          |
| Target Compounds             |        |      |          |       |          |          |
|                              |        |      |          |       | Qvalue   |          |
| 2) Dichlorodifluoromethane   | 1.383  | 85   | 2218     | 0.439 | ug/l     | 95       |
| 3) Chloromethane             | 1.518  | 50   | 3202     | 0.546 | ug/l     | 89       |
| 4) Vinyl Chloride            | 1.602  | 62   | 3491     | 0.464 | ug/l     | 92       |
| 5) Bromomethane              | 1.856  | 94   | 2709     | 0.507 | ug/l     | 91       |
| 6) Chloroethane              | 1.930  | 64   | 3071     | 0.432 | ug/l     | 95       |
| 7) Trichlorofluoromethane    | 2.132  | 101  | 8076     | 0.443 | ug/l     | 96       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.573  | 101  | 2270     | 0.434 | ug/l     | 96       |
| 9) 1,1-Dichloroethene        | 2.576  | 96   | 2059     | 0.472 | ug/l     | 84       |
| 10) Iodomethane              | 2.714  | 142  | 3367     | 0.479 | ug/l     | 91       |
| 11) Allyl Chloride           | 2.923  | 41   | 2200     | 0.430 | ug/l     | 93       |
| 12) Acrylonitrile            | 3.361  | 53   | 864m     | 0.814 | ug/l     |          |
| 13) Acetone                  | 2.644  | 43   | 2927m    | 3.215 | ug/l     |          |
| 14) Carbon Disulfide         | 2.788  | 76   | 3128     | 0.425 | ug/l     | 96       |
| 15) Methylene Chloride       | 3.042  | 84   | 5530     | 0.679 | ug/l     | 95       |
| 16) trans-1,2-Dichloroethene | 3.351  | 96   | 2131     | 0.439 | ug/l     | 94       |
| 17) 1,1-Dichloroethane       | 3.872  | 63   | 4185     | 0.408 | ug/l #   | 92       |
| 18) 2-Butanone               | 4.746  | 43   | 3628m    | 2.724 | ug/l     |          |
| 19) Cyclohexane              | 5.386  | 56   | 3025     | 0.509 | ug/l     | 92       |
| 20) Methylcyclohexane        | 6.756  | 83   | 3592     | 0.455 | ug/l     | 93       |
| 21) 2,2-Dichloropropane      | 4.656  | 77   | 4532     | 0.506 | ug/l #   | 80       |
| 22) cis-1,2-Dichloroethene   | 4.666  | 96   | 2450     | 0.399 | ug/l     | 78       |
| 23) Diethyl Ether            | 2.374  | 59   | 3066     | 0.457 | ug/l     | 99       |
| 24) tert-Butyl Alcohol       | 3.248  | 59   | 2195m    | 3.799 | ug/l     |          |
| 25) Methyl tert-Butyl Ether  | 3.367  | 73   | 6705     | 0.503 | ug/l     | 93       |
| 26) Bromochloromethane       | 4.975  | 128  | 979      | 0.418 | ug/l     | 86       |
| 27) Chloroform               | 5.084  | 83   | 5410     | 0.480 | ug/l     | 94       |
| 28) 1,1,1-Trichloroethane    | 5.316  | 97   | 4021     | 0.424 | ug/l     | 98       |
| 29) 1,1-Dichloropropene      | 5.528  | 75   | 3189     | 0.473 | ug/l #   | 77       |
| 30) Carbon Tetrachloride     | 5.518  | 117  | 3395     | 0.431 | ug/l     | 95       |
| 31) Isopropyl Ether          | 3.984  | 45   | 7134     | 0.470 | ug/l     | 97       |
| 32) Ethyl-t-butyl ether      | 4.496  | 59   | 6880     | 0.441 | ug/l     | 95       |
| 33) Tert-Amyl methyl ether   | 5.939  | 73   | 6721     | 0.458 | ug/l     | 99       |
| 34) Propionitrile            | 4.827  | 54   | 548m     | 1.375 | ug/l     |          |
| 35) Benzene                  | 5.772  | 78   | 10061    | 0.459 | ug/l     | 99       |
| 36) 1,2-Dichloroethane       | 5.795  | 62   | 3144     | 0.500 | ug/l #   | 94       |
| 37) Trichloroethene          | 6.544  | 130  | 2797     | 0.472 | ug/l     | 91       |
| 38) 1,2-Dichloropropane      | 6.788  | 63   | 2757     | 0.436 | ug/l     | 95       |
| 39) Methacrylonitrile        | 4.991  | 41   | 478m     | 0.337 | ug/l     |          |
| 40) Methyl acrylate          | 4.878  | 55   | 1016m    | 0.420 | ug/l     |          |
| 41) Tetrahydrofuran          | 5.094  | 42   | 760m     | 0.907 | ug/l     |          |
| 42) 1-Chlorobutane           | 5.457  | 56   | 4563     | 0.500 | ug/l     | 92       |
| 43) Dibromomethane           | 6.920  | 93   | 1463m    | 0.497 | ug/l     |          |
| 44) Bromodichloromethane     | 7.106  | 83   | 3949     | 0.490 | ug/l #   | 87       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU072423\  
 Data File : VU054856.D  
 Acq On : 24 Jul 2023 13:25  
 Operator : MD/SY  
 Sample : 03572-08  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 LOQ-WATER-02-QT3-2023

Quant Time: Jul 25 06:03:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072123DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jul 25 05:02:28 2023  
 Response via : Initial Calibration

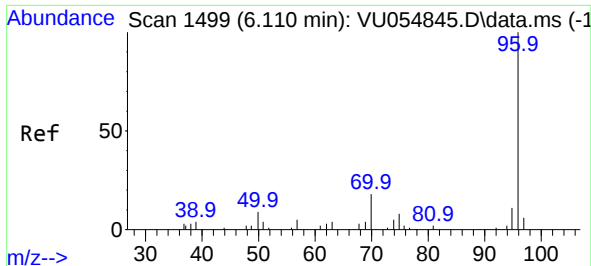
### Manual Integrations APPROVED

Reviewed By : John Carlone 07/25/2023  
 Supervised By : Mahesh Dadoda 07/31/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.795  | 43   | 8141     | 2.338 | ug/l   | 92       |
| 46) t-1,4-Dichloro-2-butene   | 10.823 | 75   | 2954     | 2.026 | ug/l # | 31       |
| 47) Methyl methacrylate       | 6.962  | 69   | 2648     | 0.958 | ug/l   | 90       |
| 48) Ethyl methacrylate        | 8.335  | 69   | 2352     | 0.419 | ug/l   | 87       |
| 49) Toluene                   | 7.968  | 92   | 6495     | 0.465 | ug/l   | 93       |
| 50) t-1,3-Dichloropropene     | 8.209  | 75   | 3182     | 0.445 | ug/l   | 92       |
| 51) cis-1,3-Dichloropropene   | 7.608  | 75   | 3697     | 0.426 | ug/l # | 86       |
| 52) 1,1,2-Trichloroethane     | 8.399  | 97   | 1855     | 0.418 | ug/l # | 81       |
| 53) 1,3-Dichloropropane       | 8.573  | 76   | 3633     | 0.486 | ug/l   | 96       |
| 54) 2-Hexanone                | 8.692  | 43   | 5600     | 2.307 | ug/l   | 94       |
| 55) Dibromochloromethane      | 8.811  | 129  | 2378     | 0.448 | ug/l # | 48       |
| 56) 1,2-Dibromoethane         | 8.926  | 107  | 1980     | 0.510 | ug/l   | 92       |
| 58) Tetrachloroethene         | 8.550  | 164  | 2908     | 0.564 | ug/l   | 89       |
| 59) Chlorobenzene             | 9.447  | 112  | 7895     | 0.474 | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.534  | 131  | 2506     | 0.426 | ug/l # | 81       |
| 61) Pentachloroethane         | 11.425 | 117  | 2064     | 0.446 | ug/l   | 92       |
| 62) Hexachloroethane          | 12.473 | 117  | 1987     | 0.418 | ug/l   | 90       |
| 63) Ethyl Benzene             | 9.569  | 91   | 12672    | 0.446 | ug/l   | 96       |
| 64) m/p-Xylenes               | 9.692  | 106  | 9799     | 0.912 | ug/l   | 96       |
| 65) o-Xylene                  | 10.097 | 106  | 4695     | 0.434 | ug/l   | 91       |
| 66) Styrene                   | 10.113 | 104  | 7680     | 0.442 | ug/l   | 98       |
| 67) Bromoform                 | 10.286 | 173  | 1280     | 0.448 | ug/l # | 92       |
| 69) Isopropylbenzene          | 10.483 | 105  | 12397    | 0.422 | ug/l   | 98       |
| 70) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 2536     | 0.458 | ug/l # | 95       |
| 71) 1,2,3-Trichloropropane    | 10.823 | 75   | 2021m    | 0.518 | ug/l   |          |
| 72) Bromobenzene              | 10.782 | 156  | 2930     | 0.433 | ug/l   | 95       |
| 73) n-propylbenzene           | 10.904 | 120  | 3123     | 0.396 | ug/l   | 91       |
| 74) 2-Chlorotoluene           | 10.987 | 126  | 2910     | 0.424 | ug/l   | 81       |
| 75) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 10435    | 0.436 | ug/l   | 97       |
| 76) 4-Chlorotoluene           | 11.100 | 126  | 2692     | 0.381 | ug/l   | 76       |
| 77) tert-Butylbenzene         | 11.418 | 119  | 10752    | 0.437 | ug/l   | 97       |
| 78) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 10640    | 0.442 | ug/l   | 99       |
| 79) sec-Butylbenzene          | 11.640 | 105  | 13370    | 0.418 | ug/l   | 99       |
| 80) Nitrobenzene              | 13.222 | 77   | 53       | 0.330 | ug/l # | 39       |
| 81) p-Isopropyltoluene        | 11.791 | 119  | 10534    | 0.405 | ug/l   | 96       |
| 82) 1,3-Dichlorobenzene       | 11.746 | 146  | 6157     | 0.454 | ug/l   | 96       |
| 83) 1,4-Dichlorobenzene       | 11.836 | 146  | 6168     | 0.454 | ug/l   | 97       |
| 84) n-Butylbenzene            | 12.209 | 91   | 9396     | 0.392 | ug/l   | 94       |
| 85) 1,2-Dichlorobenzene       | 12.209 | 146  | 6360     | 0.493 | ug/l   | 92       |
| 86) 1,2-Dibromo-3-Chloropr... | 13.000 | 75   | 351      | 0.483 | ug/l # | 50       |
| 87) 1,2,4-Trichlorobenzene    | 13.839 | 180  | 3395     | 0.410 | ug/l   | 89       |
| 88) Hexachlorobutadiene       | 14.013 | 225  | 2022     | 0.457 | ug/l   | 97       |
| 89) Naphthalene               | 14.090 | 128  | 6529     | 0.488 | ug/l # | 94       |
| 90) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 3465     | 0.484 | ug/l   | 97       |

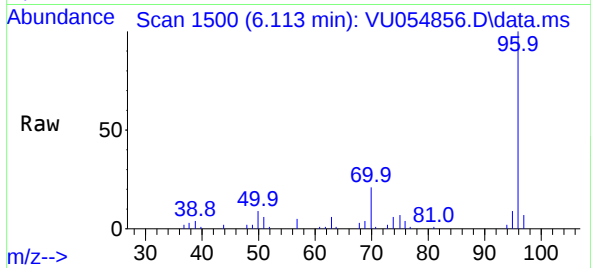
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.113 min Scan# 1499  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

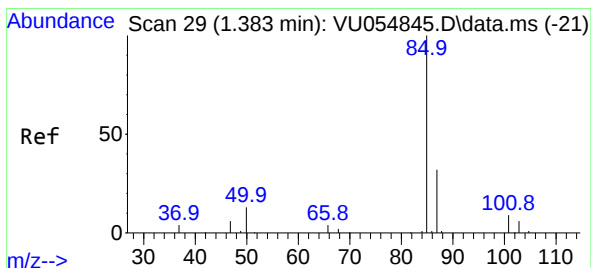
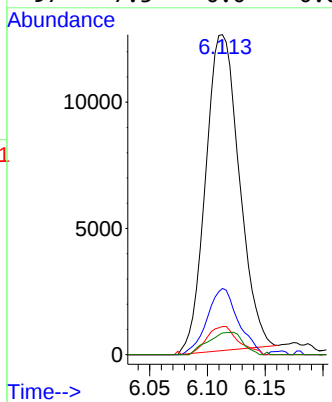
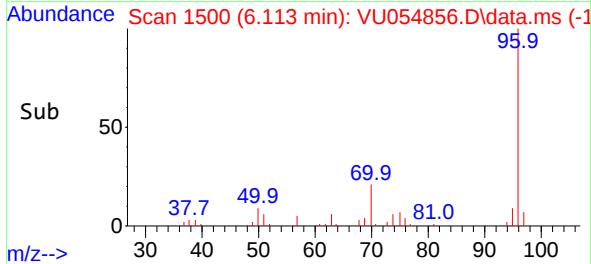
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



Tgt Ion: 96 Resp: 25374  
Ion Ratio Lower Upper  
96 100  
70 19.4 14.0 21.0  
95 8.4 8.7 13.1  
97 7.3 0.0 0.0#

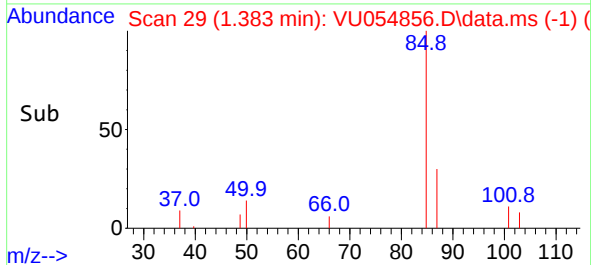
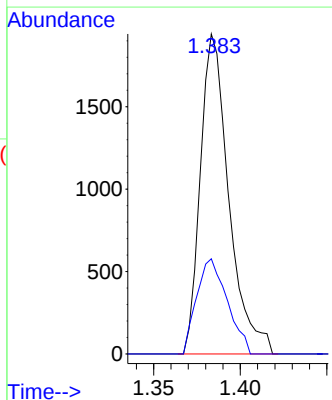
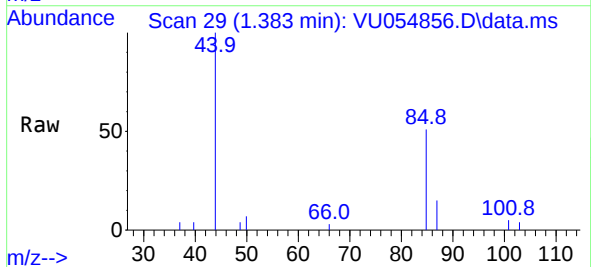
Manual Integrations  
APPROVED

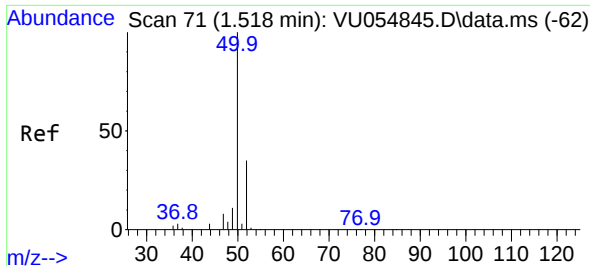
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#2  
Dichlorodifluoromethane  
Concen: 0.439 ug/l  
RT: 1.383 min Scan# 29  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

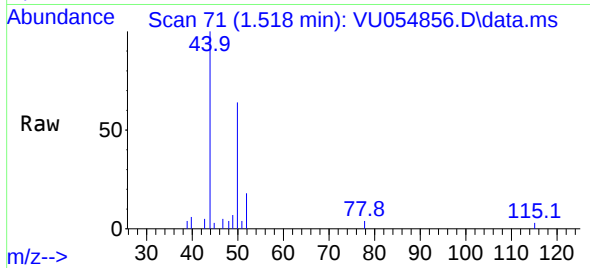
Tgt Ion: 85 Resp: 2218  
Ion Ratio Lower Upper  
85 100  
87 29.8 16.2 48.6





#3  
Chloromethane  
Concen: 0.546 ug/l  
RT: 1.518 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

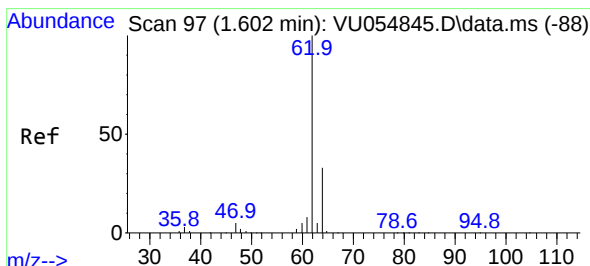
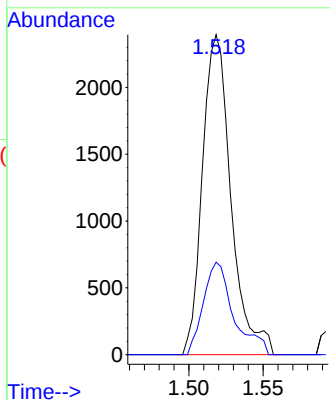
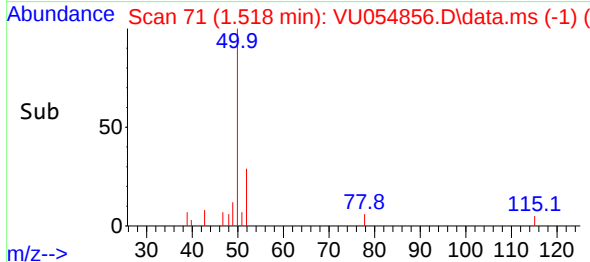
Instrument : MSVOA\_U  
ClientSampleId : VU054856.D  
LOQ-WATER-02-QT3-2023



Tgt Ion: 50 Resp: 320  
Ion Ratio Lower Upper  
50 100  
52 28.9 28.2 42.2

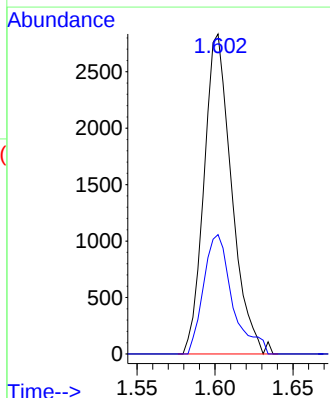
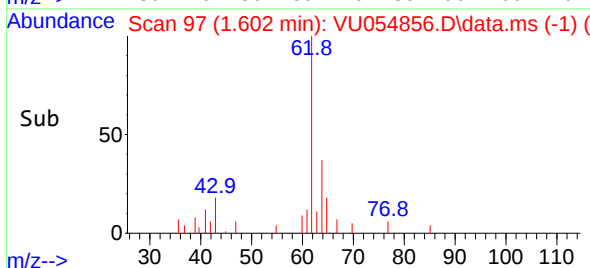
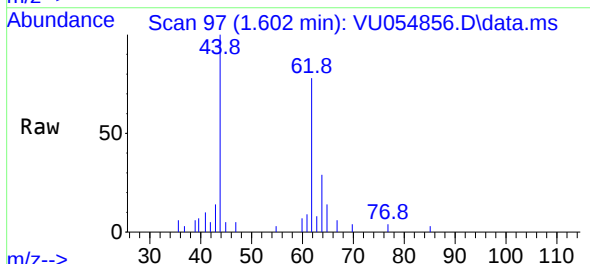
Manual Integrations  
APPROVED

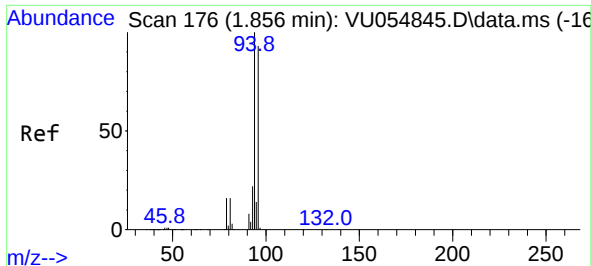
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#4  
Vinyl Chloride  
Concen: 0.464 ug/l  
RT: 1.602 min Scan# 97  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

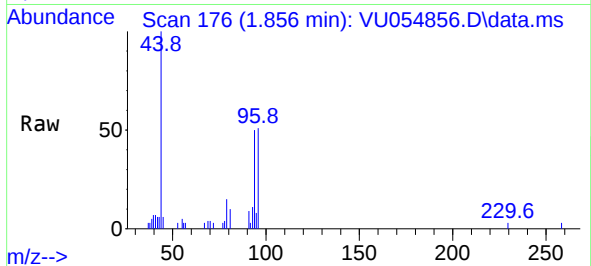
Tgt Ion: 62 Resp: 3491  
Ion Ratio Lower Upper  
62 100  
64 37.3 26.4 39.6





#5  
Bromomethane  
Concen: 0.507 ug/l  
RT: 1.856 min Scan# 176  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

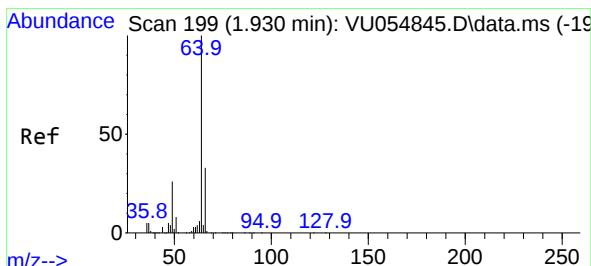
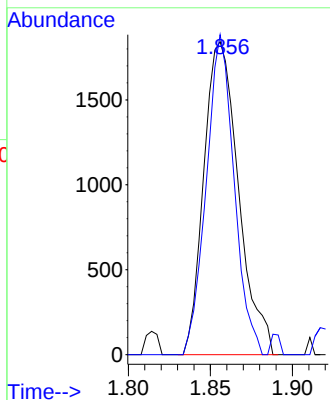
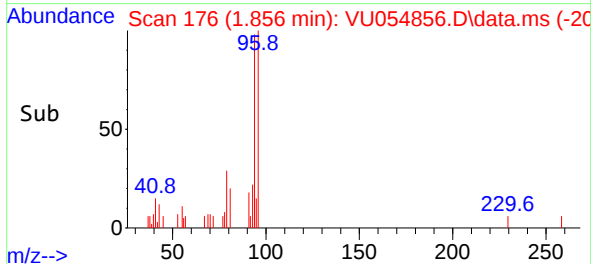
Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



Tgt Ion: 94 Resp: 2709  
Ion Ratio Lower Upper  
94 100  
96 102.2 74.6 111.8

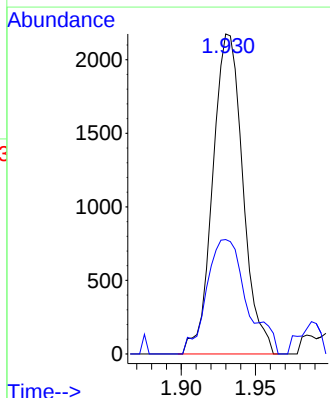
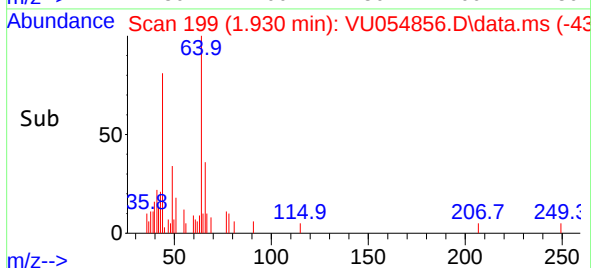
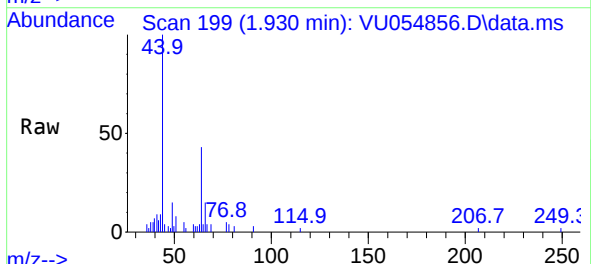
Manual Integrations  
APPROVED

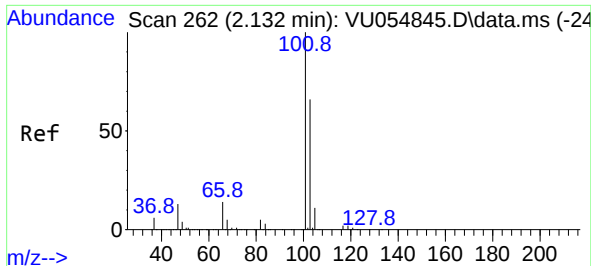
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#6  
Chloroethane  
Concen: 0.432 ug/l  
RT: 1.930 min Scan# 199  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

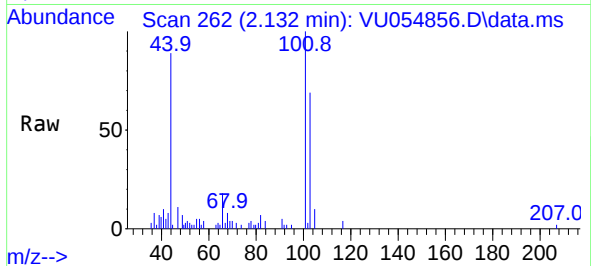
Tgt Ion: 64 Resp: 3071  
Ion Ratio Lower Upper  
64 100  
66 35.8 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 0.443 ug/l  
RT: 2.132 min Scan# 207  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

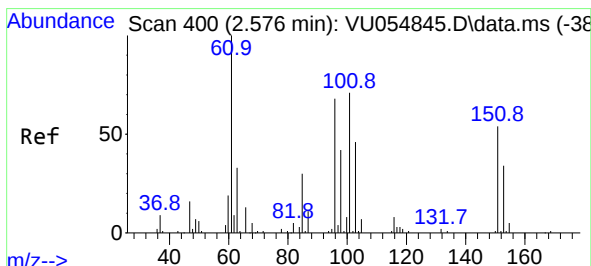
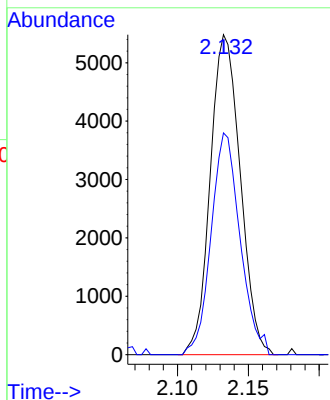
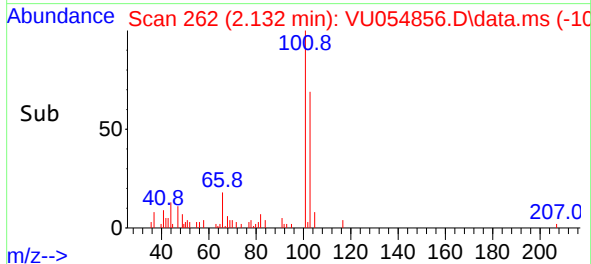
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



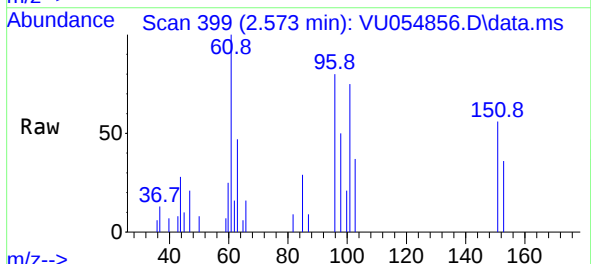
Tgt Ion:101 Resp: 8070  
Ion Ratio Lower Upper  
101 100  
103 69.3 52.9 79.3

Manual Integrations  
APPROVED

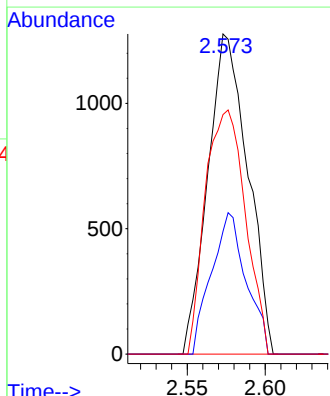
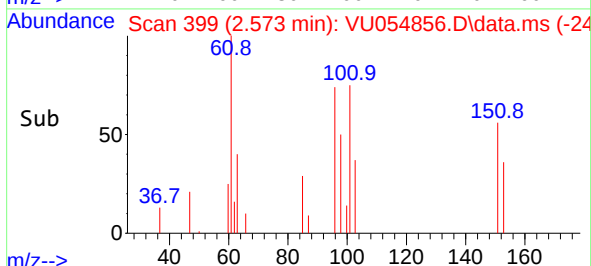
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

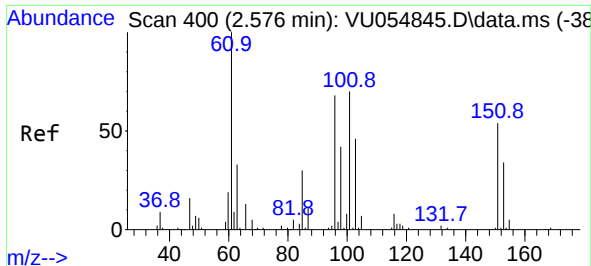


#8  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.434 ug/l  
RT: 2.573 min Scan# 399  
Delta R.T. -0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



Tgt Ion:101 Resp: 2270  
Ion Ratio Lower Upper  
101 100  
85 38.6 34.8 52.2  
151 76.7 60.5 90.7





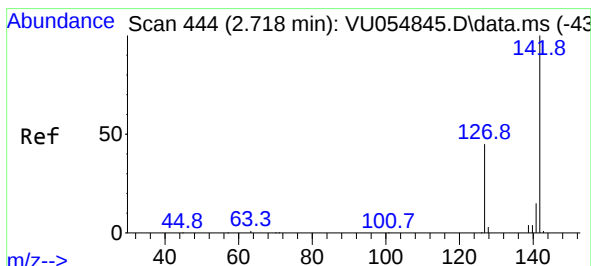
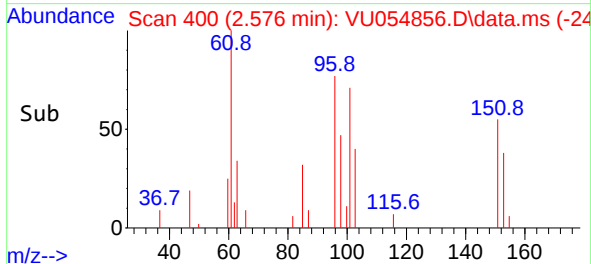
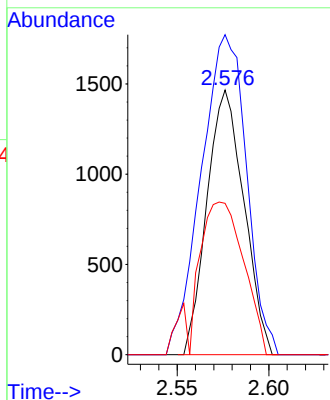
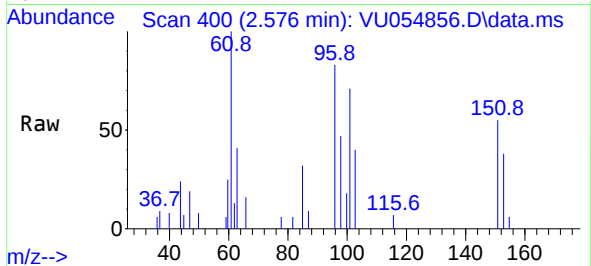
#9  
1,1-Dichloroethene  
Concen: 0.472 ug/l  
RT: 2.576 min Scan# 400  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument :  
MSVOA\_U  
Client Sample Id :  
LOQ-WATER-02-QT3-2023

Tgt Ion: 96 Resp: 2059  
Ion Ratio Lower Upper  
96 100  
61 120.9 0.0 440.1  
98 57.2 0.0 121.8

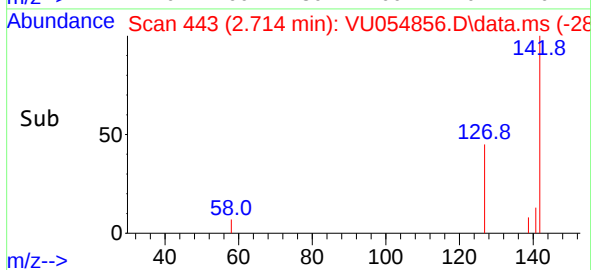
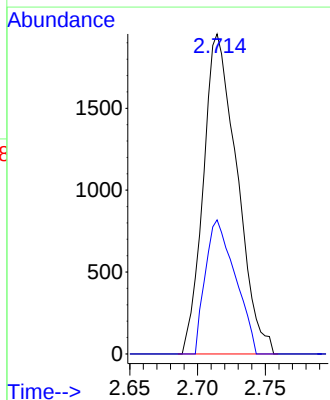
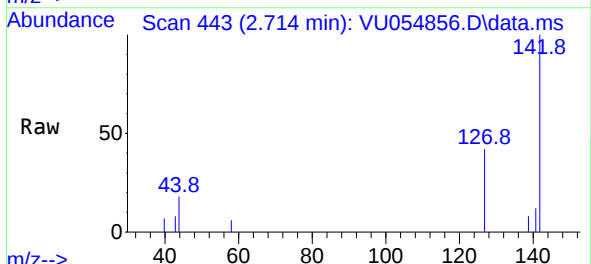
Manual Integrations  
APPROVED

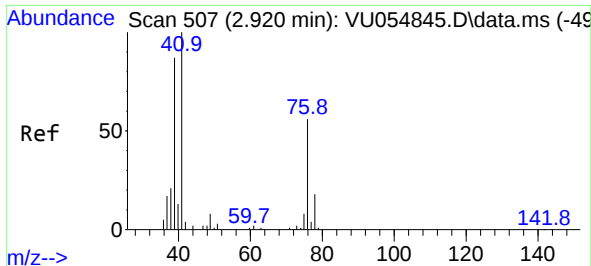
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#10  
Iodomethane  
Concen: 0.479 ug/l  
RT: 2.714 min Scan# 443  
Delta R.T. -0.004 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Tgt Ion:142 Resp: 3367  
Ion Ratio Lower Upper  
142 100  
127 37.1 34.3 51.5





#11

Allyl Chloride

Concen: 0.430 ug/l

RT: 2.923 min Scan# 507

Delta R.T. 0.003 min

Lab File: VU054856.D

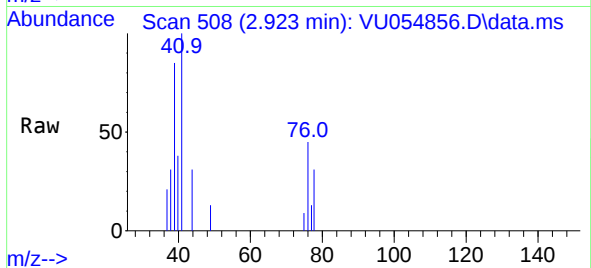
Acq: 24 Jul 2023 13:25

Instrument :

MSVOA\_U

ClientSampleId :

LOQ-WATER-02-QT3-2023



Tgt Ion: 41 Resp: 2200

Ion Ratio Lower Upper

41 100

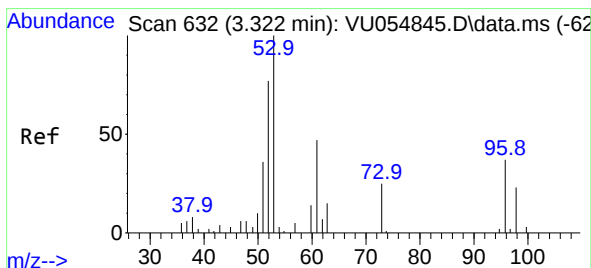
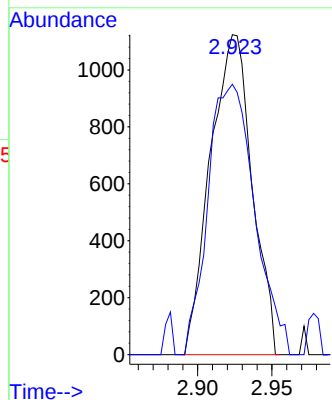
39 94.4 70.2 105.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/25/2023

Supervised By :Mahesh Dadoda 07/31/2023



#12

Acrylonitrile

Concen: 0.814 ug/l m

RT: 3.361 min Scan# 644

Delta R.T. 0.039 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

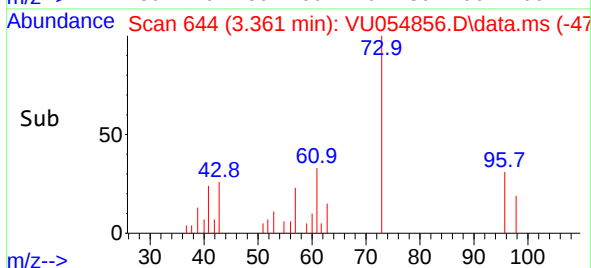
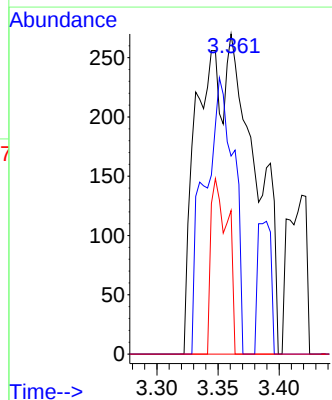
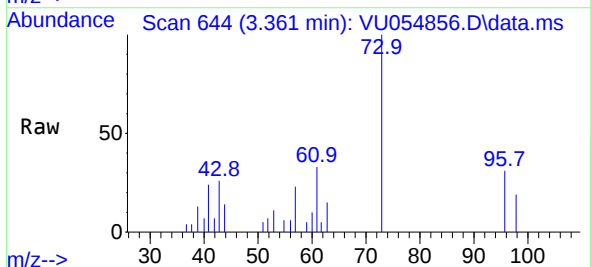
Tgt Ion: 53 Resp: 864

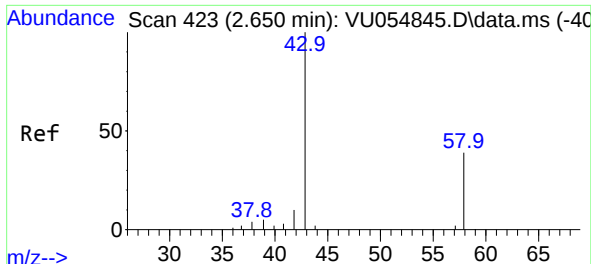
Ion Ratio Lower Upper

53 100

52 45.0 64.2 96.4#

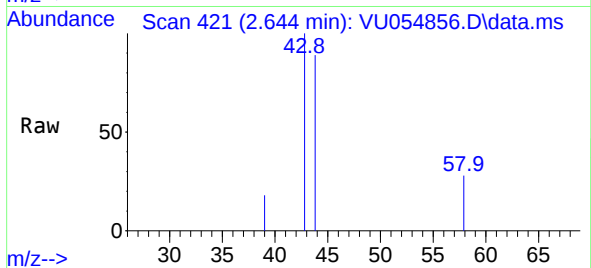
51 16.6 33.6 50.4#





#13  
Acetone  
Concen: 3.215 ug/l m  
RT: 2.644 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

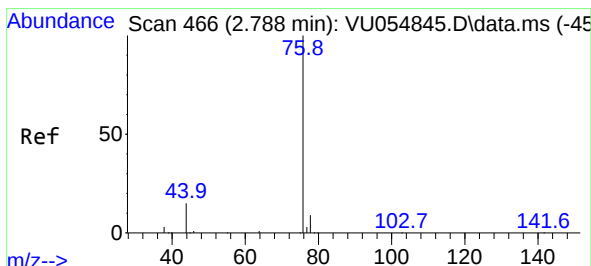
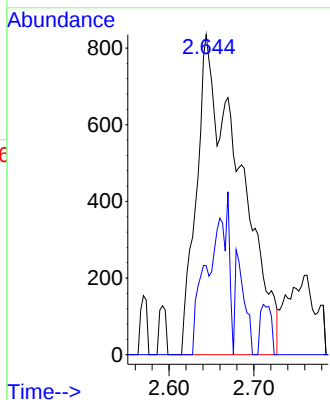
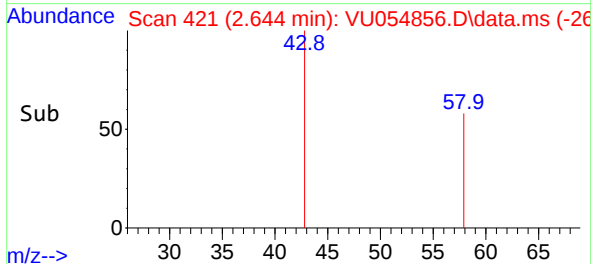
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



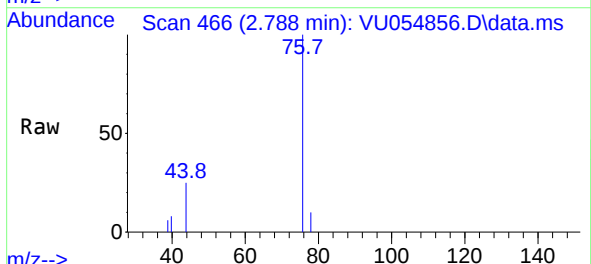
Tgt Ion: 43 Resp: 292  
Ion Ratio Lower Upper  
43 100  
58 27.8 30.7 46.1

Manual Integrations  
APPROVED

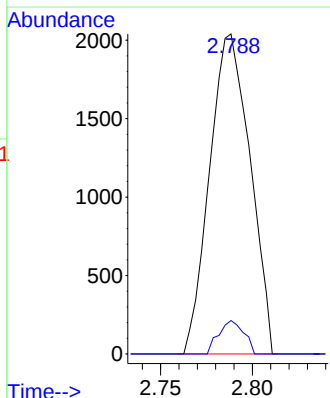
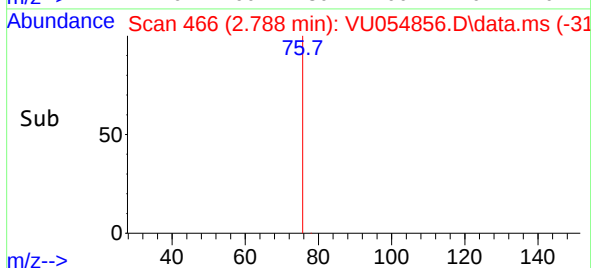
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

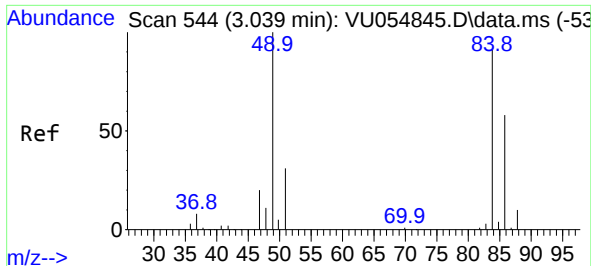


#14  
Carbon Disulfide  
Concen: 0.425 ug/l  
RT: 2.788 min Scan# 466  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



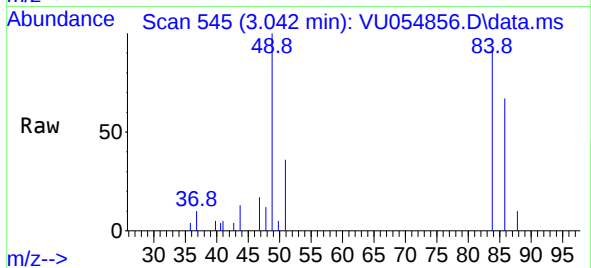
Tgt Ion: 76 Resp: 3128  
Ion Ratio Lower Upper  
76 100  
78 10.4 7.1 10.7





#15  
Methylene Chloride  
Concen: 0.679 ug/l  
RT: 3.042 min Scan# 544  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

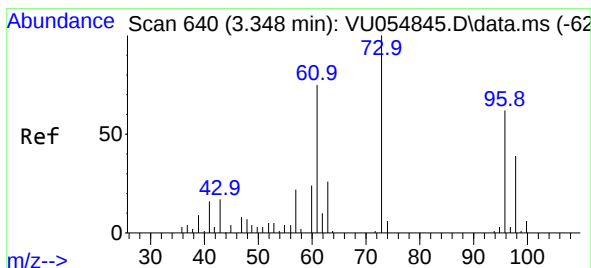
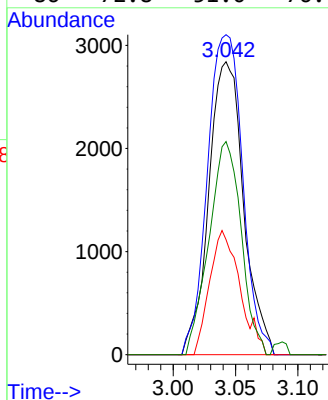
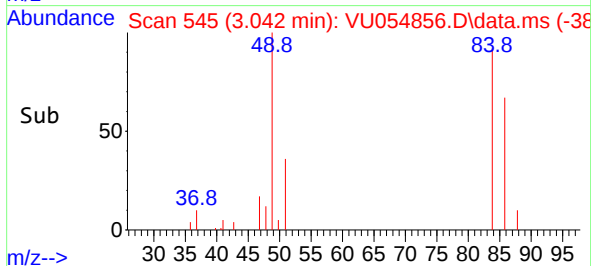
Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



Tgt Ion: 84 Resp: 5530  
Ion Ratio Lower Upper  
84 100  
49 109.2 87.8 131.6  
51 39.3 0.0 68.2  
86 72.8 51.0 76.4

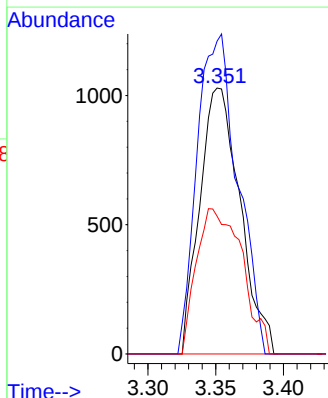
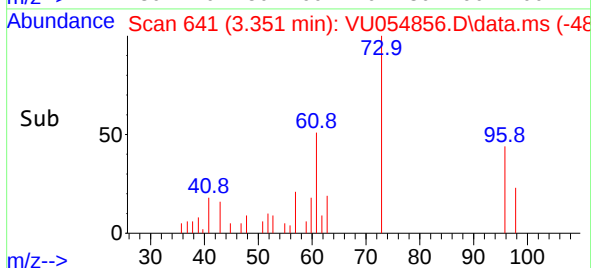
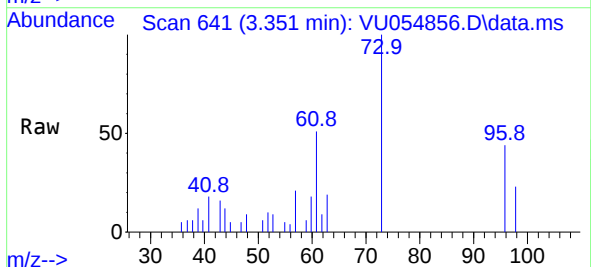
Manual Integrations  
APPROVED

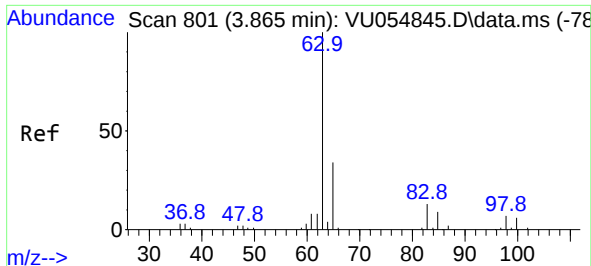
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#16  
trans-1,2-Dichloroethene  
Concen: 0.439 ug/l  
RT: 3.351 min Scan# 641  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Tgt Ion: 96 Resp: 2131  
Ion Ratio Lower Upper  
96 100  
61 117.6 96.4 144.6  
98 51.8 49.3 73.9





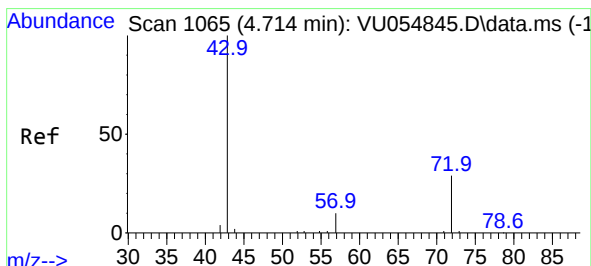
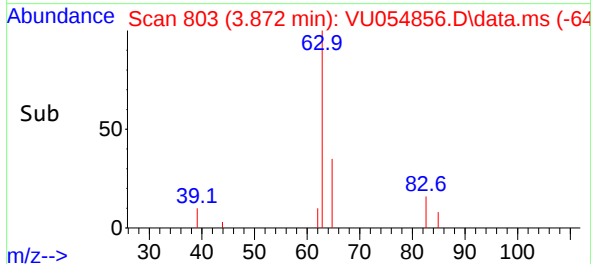
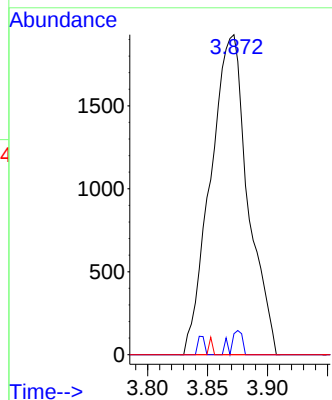
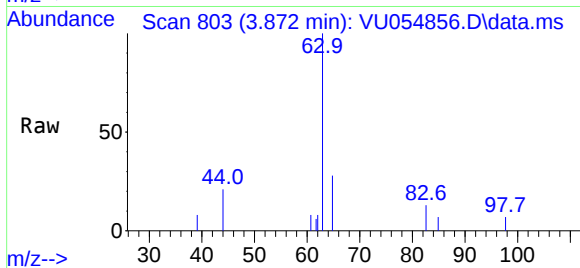
#17  
1,1-Dichloroethane  
Concen: 0.408 ug/l  
RT: 3.872 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion: 63 Resp: 418  
Ion Ratio Lower Upper  
63 100  
98 6.5 3.6 10.8  
100 0.0 2.8 8.4

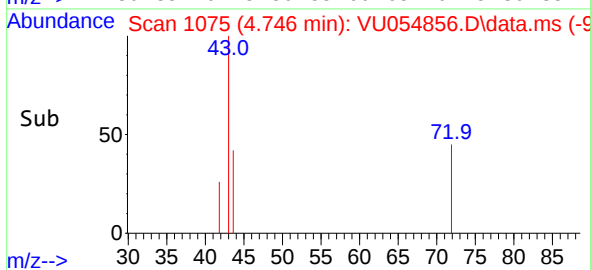
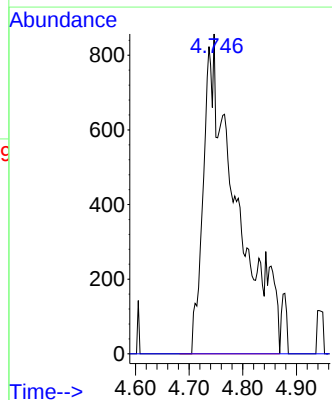
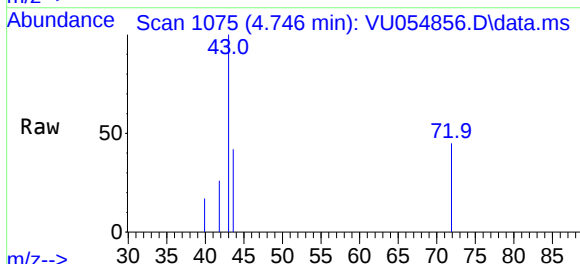
Manual Integrations  
APPROVED

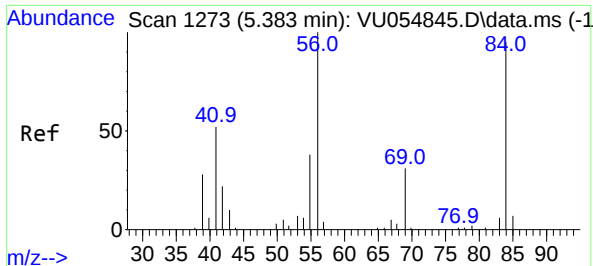
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#18  
2-Butanone  
Concen: 2.724 ug/l m  
RT: 4.746 min Scan# 1075  
Delta R.T. 0.032 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Tgt Ion: 43 Resp: 3628  
Ion Ratio Lower Upper  
43 100  
57 0.0 0.0 20.8





#19

Cyclohexane

Concen: 0.509 ug/l

RT: 5.386 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Instrument :

MSVOA\_U

ClientSampleId :

LOQ-WATER-02-QT3-2023

Tgt Ion: 56 Resp: 302

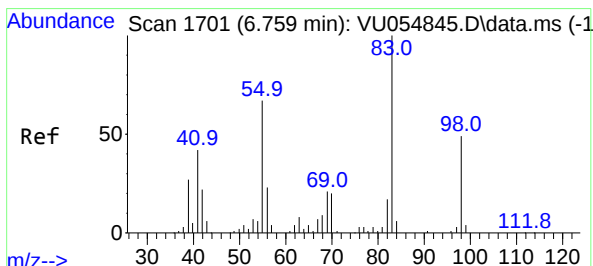
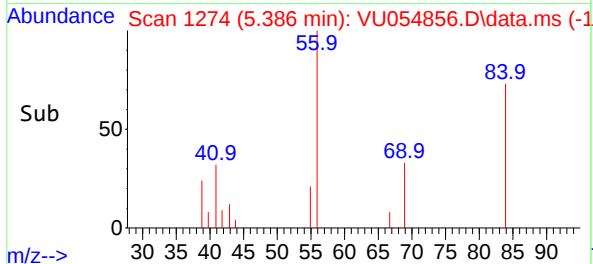
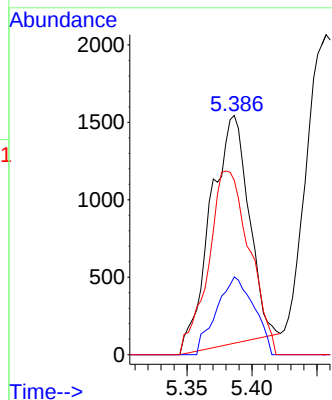
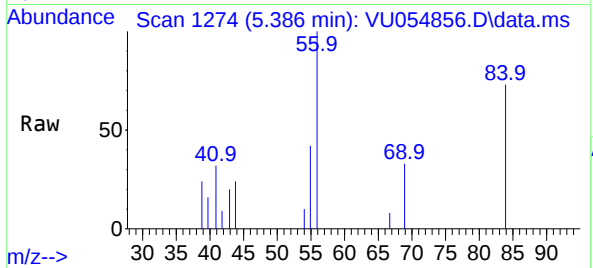
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 33.3  | 24.7  | 37.1  |
| 84  | 86.3  | 76.5  | 114.7 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/25/2023

Supervised By :Mahesh Dadoda 07/31/2023



#20

Methylcyclohexane

Concen: 0.455 ug/l

RT: 6.756 min Scan# 1700

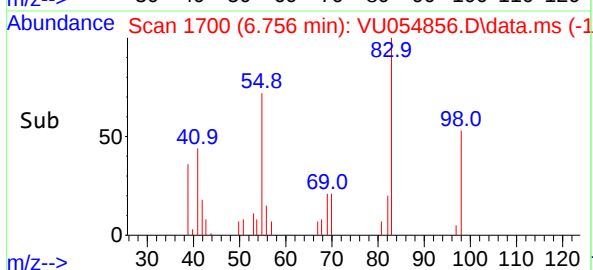
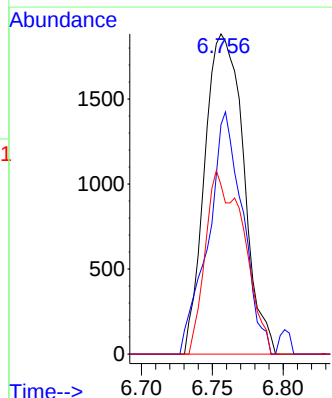
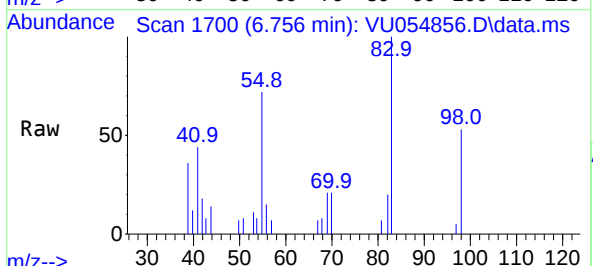
Delta R.T. -0.003 min

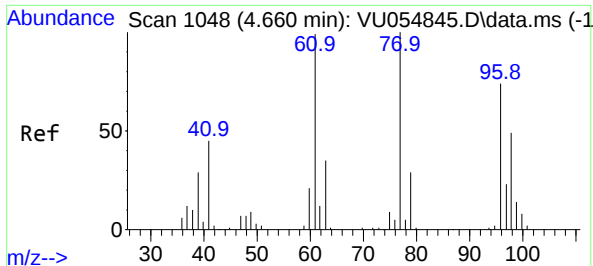
Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Tgt Ion: 83 Resp: 3592

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 67.0  | 51.6  | 77.4  |
| 98  | 56.3  | 38.2  | 57.2  |





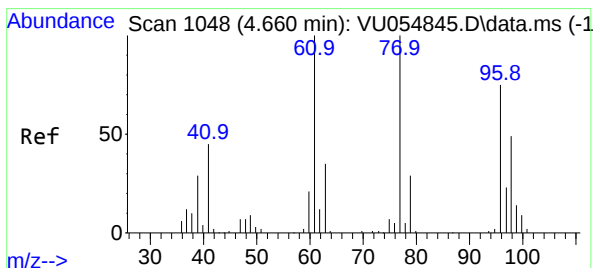
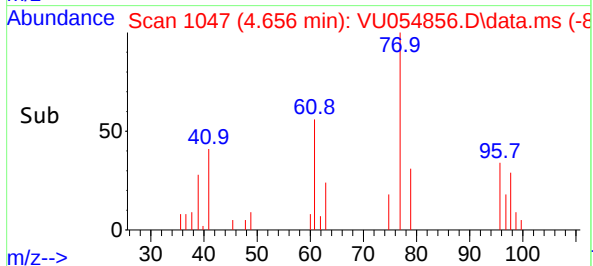
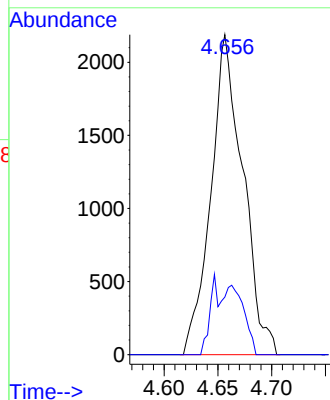
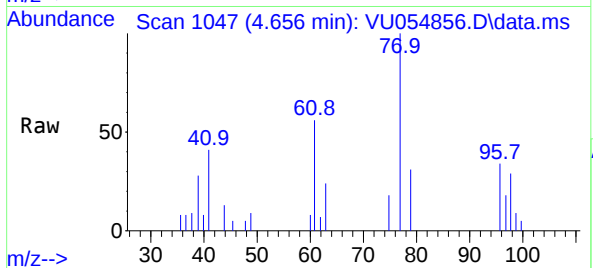
#21  
2,2-Dichloropropane  
Concen: 0.506 ug/l  
RT: 4.656 min Scan# 1047  
Delta R.T. -0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion: 77 Resp: 4532  
Ion Ratio Lower Upper  
77 100  
97 13.1 18.0 27.0

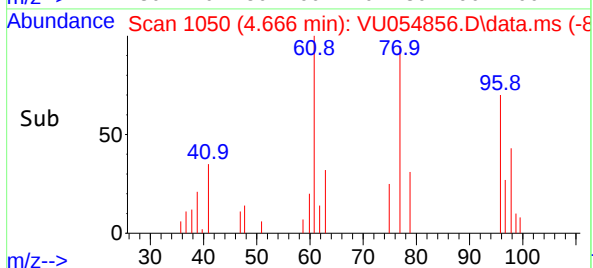
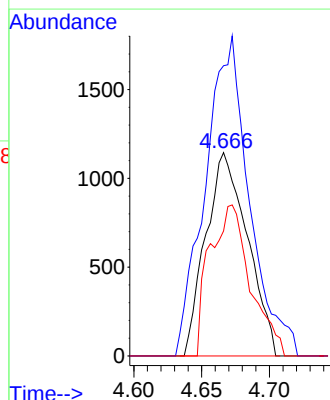
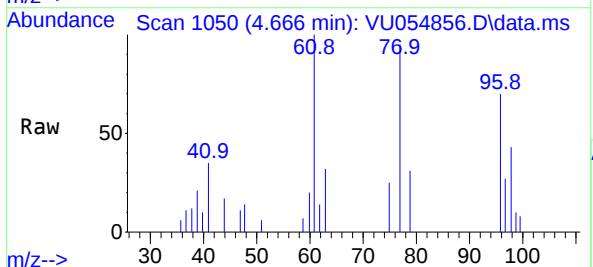
Manual Integrations  
APPROVED

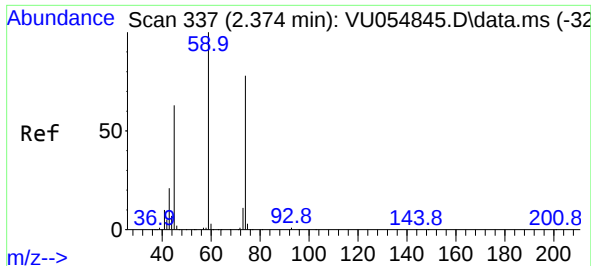
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#22  
cis-1,2-Dichloroethene  
Concen: 0.399 ug/l  
RT: 4.666 min Scan# 1050  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

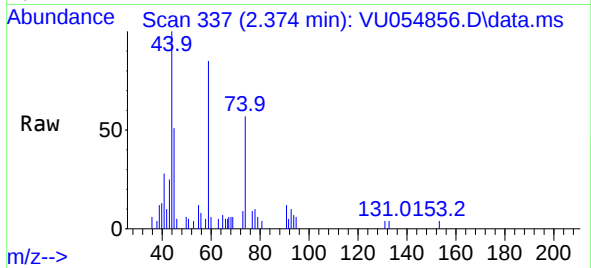
Tgt Ion: 96 Resp: 2450  
Ion Ratio Lower Upper  
96 100  
61 166.0 0.0 332.0  
98 72.1 32.5 97.5





#23  
Diethyl Ether  
Concen: 0.457 ug/l  
RT: 2.374 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

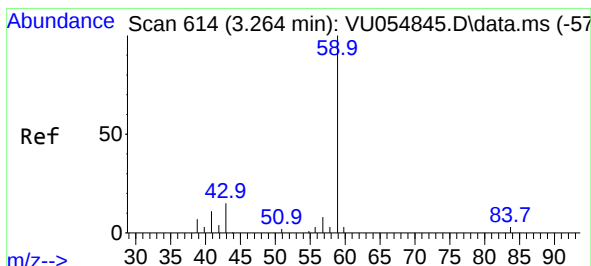
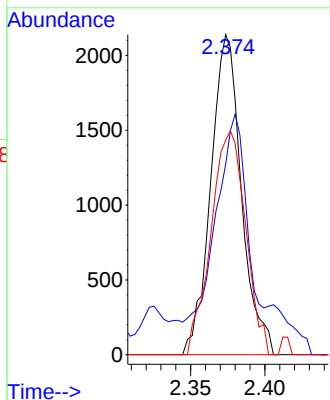
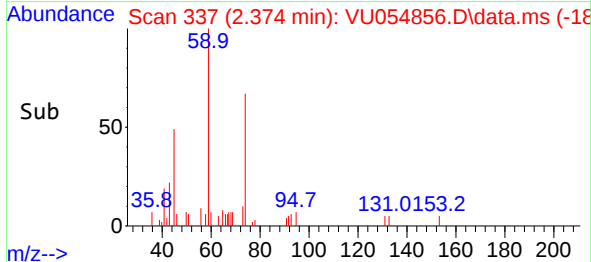
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



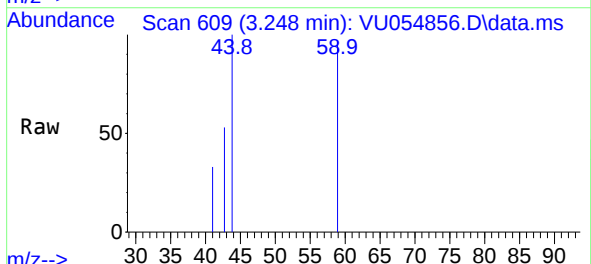
Tgt Ion: 59 Resp: 3060  
Ion Ratio Lower Upper  
59 100  
45 63.1 51.4 77.0  
74 79.1 63.1 94.7

Manual Integrations  
APPROVED

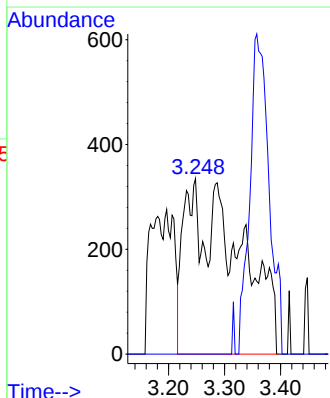
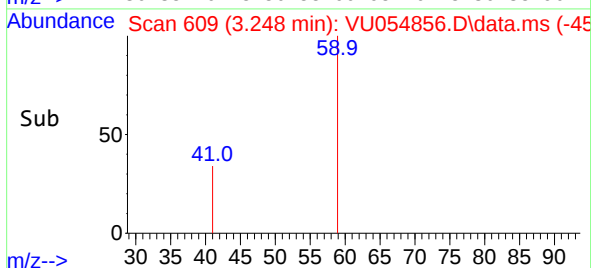
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

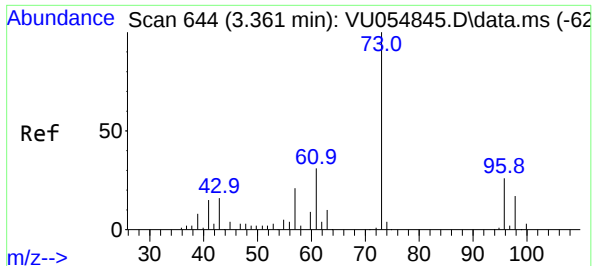


#24  
tert-Butyl Alcohol  
Concen: 3.799 ug/l m  
RT: 3.248 min Scan# 609  
Delta R.T. -0.016 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



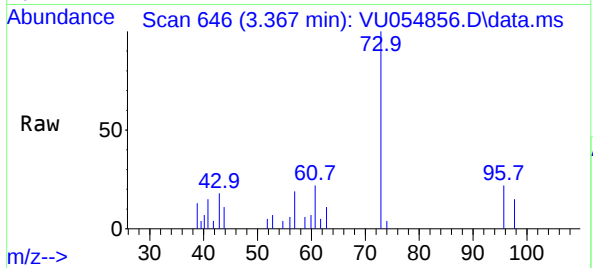
Tgt Ion: 59 Resp: 2195  
Ion Ratio Lower Upper  
59 100  
57 0.0 2.2 3.2#





#25  
Methyl tert-Butyl Ether  
Concen: 0.503 ug/l  
RT: 3.367 min Scan# 644  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

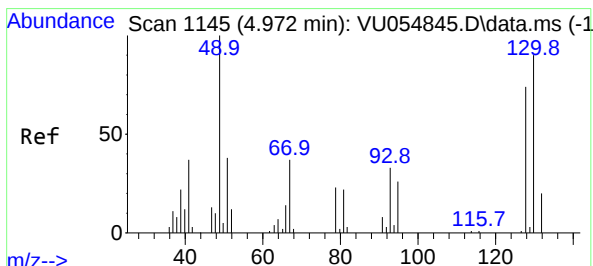
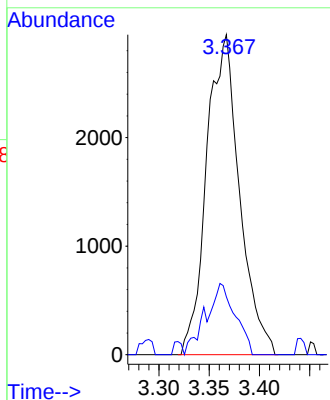
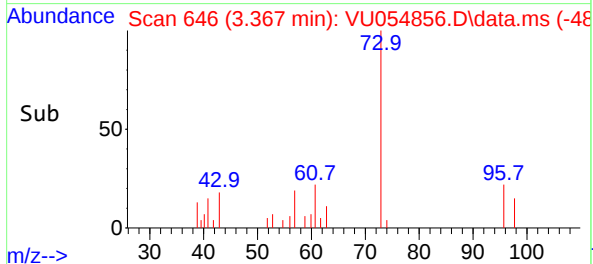
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



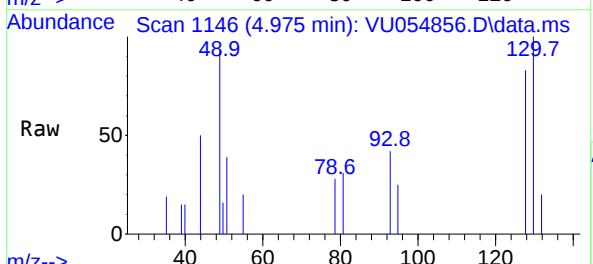
Tgt Ion: 73 Resp: 670  
Ion Ratio Lower Upper  
73 100  
43 15.3 14.6 22.0

Manual Integrations  
APPROVED

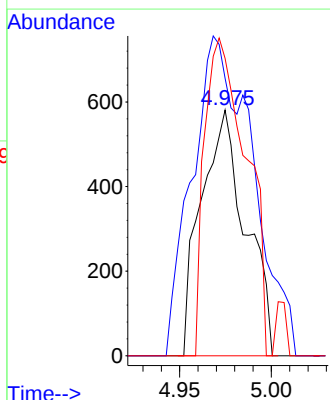
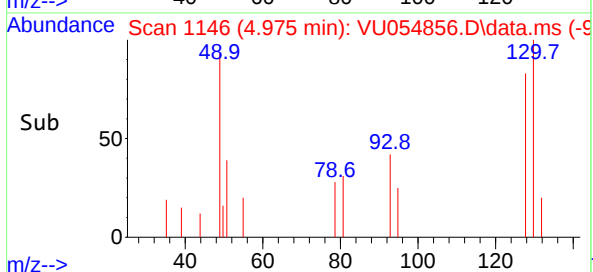
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

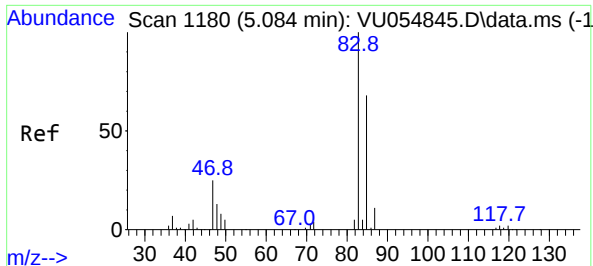


#26  
Bromochloromethane  
Concen: 0.418 ug/l  
RT: 4.975 min Scan# 1146  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



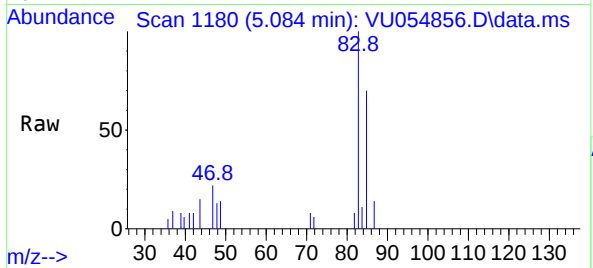
Tgt Ion:128 Resp: 979  
Ion Ratio Lower Upper  
128 100  
49 176.9 0.0 304.0  
130 121.3 104.3 156.5





#27  
Chloroform  
Concen: 0.480 ug/l  
RT: 5.084 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

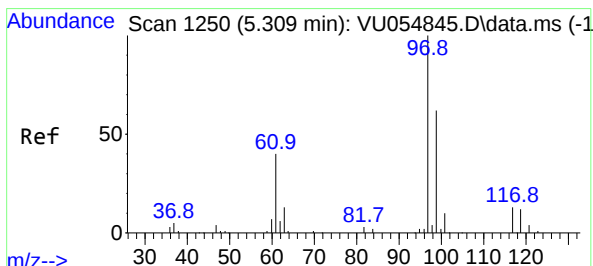
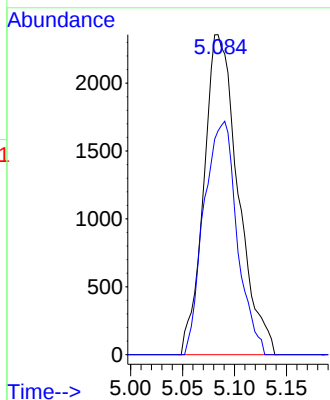
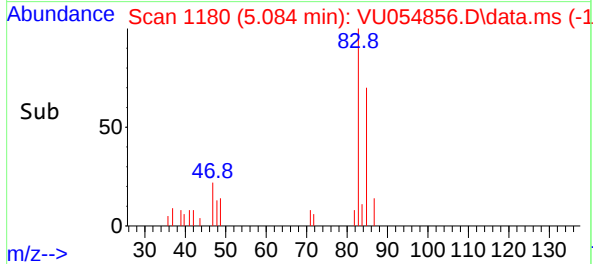
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



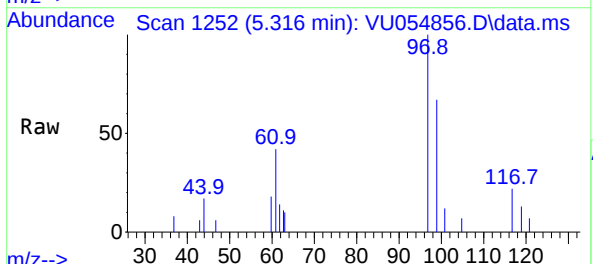
Tgt Ion: 83 Resp: 5410  
Ion Ratio Lower Upper  
83 100  
85 62.9 0.0 135.2

Manual Integrations  
APPROVED

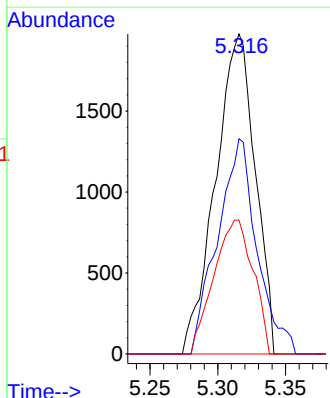
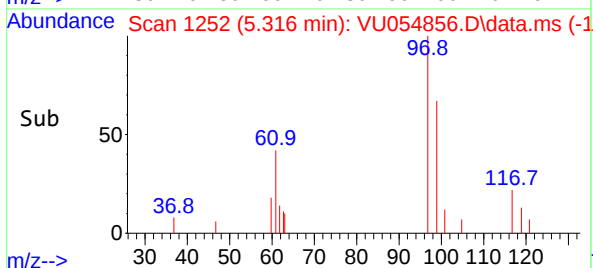
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

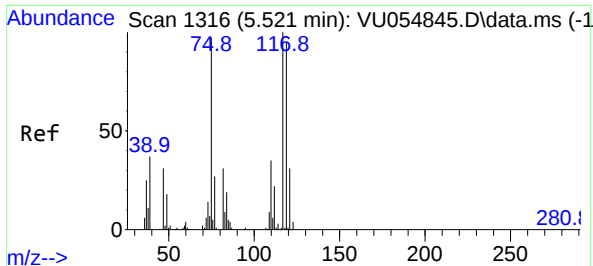


#28  
1,1,1-Trichloroethane  
Concen: 0.424 ug/l  
RT: 5.316 min Scan# 1252  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



Tgt Ion: 97 Resp: 4021  
Ion Ratio Lower Upper  
97 100  
99 66.7 32.0 96.2  
61 41.5 21.0 63.0





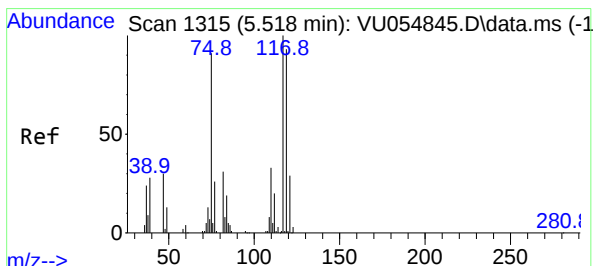
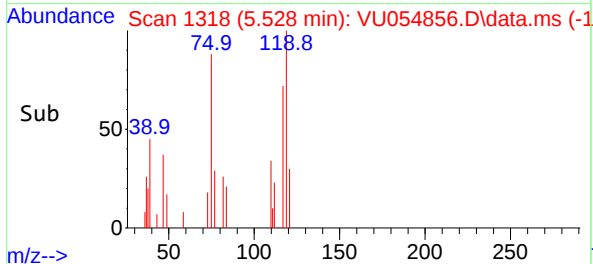
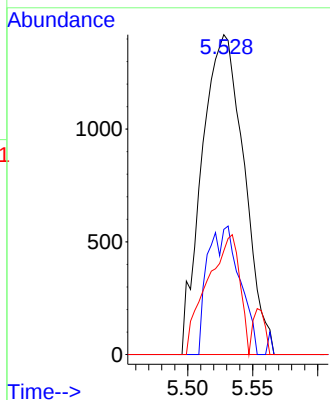
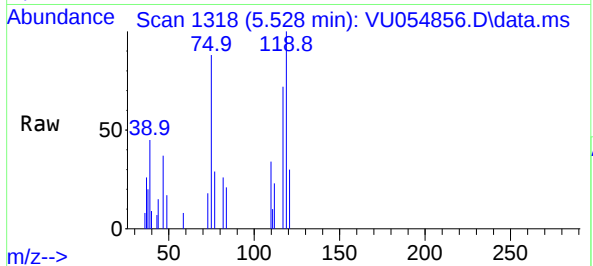
#29  
1,1-Dichloropropene  
Concen: 0.473 ug/l  
RT: 5.528 min Scan# 1316  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument : MSVOA\_U  
ClientSampleId : LOQ-WATER-02-QT3-2023

Tgt Ion: 75 Resp: 3189  
Ion Ratio Lower Upper  
75 100  
110 13.3 18.5 55.5  
77 29.0 24.9 37.3

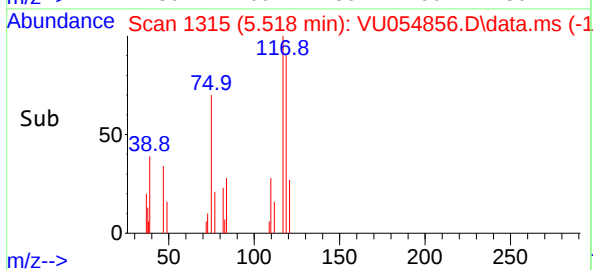
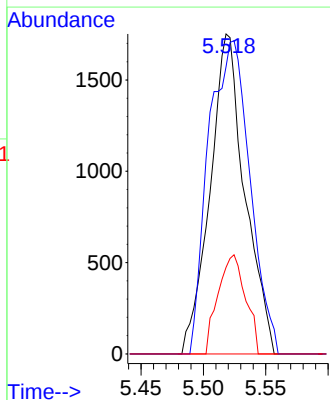
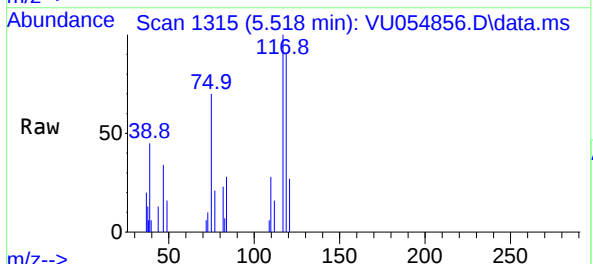
Manual Integrations  
APPROVED

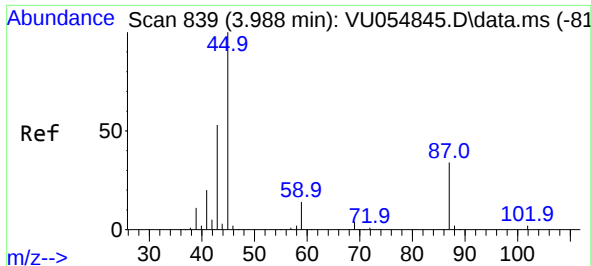
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#30  
Carbon Tetrachloride  
Concen: 0.431 ug/l  
RT: 5.518 min Scan# 1315  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

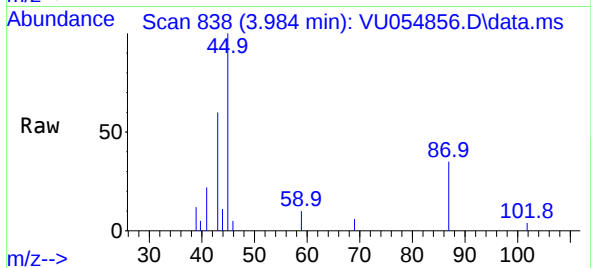
Tgt Ion:117 Resp: 3395  
Ion Ratio Lower Upper  
117 100  
119 89.7 75.6 113.4  
121 27.1 23.4 35.0





#31  
Isopropyl Ether  
Concen: 0.470 ug/l  
RT: 3.984 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

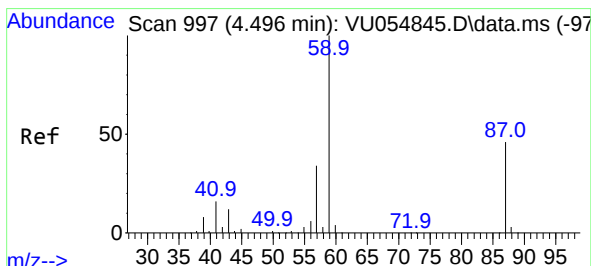
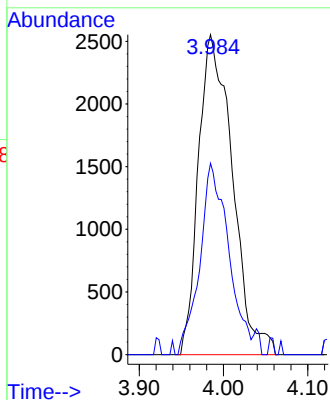
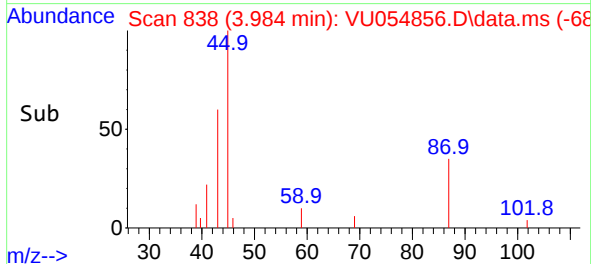
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



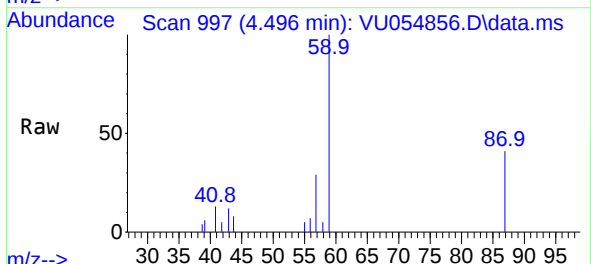
Tgt Ion: 45 Resp: 7134  
Ion Ratio Lower Upper  
45 100  
43 50.7 26.4 79.2

Manual Integrations  
APPROVED

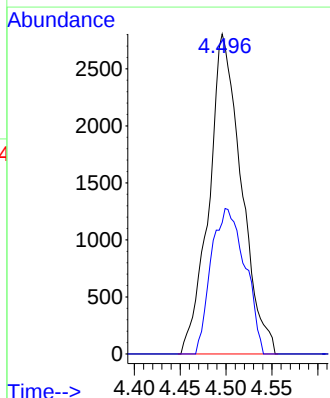
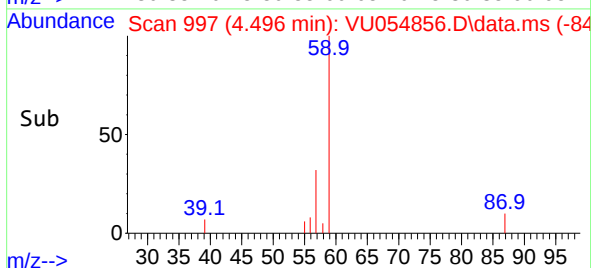
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

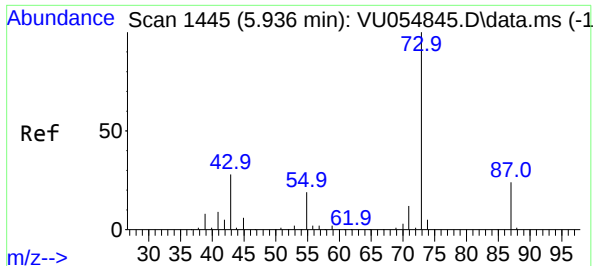


#32  
Ethyl-t-butyl ether  
Concen: 0.441 ug/l  
RT: 4.496 min Scan# 997  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



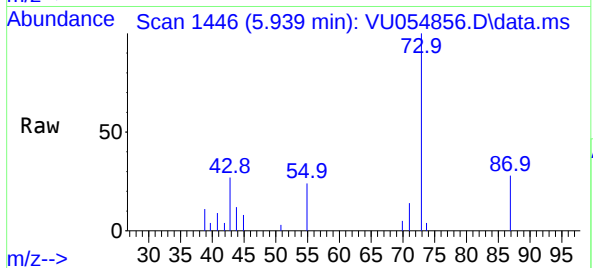
Tgt Ion: 59 Resp: 6880  
Ion Ratio Lower Upper  
59 100  
87 47.6 35.7 53.5





#33  
Tert-Amyl methyl ether  
Concen: 0.458 ug/l  
RT: 5.939 min Scan# 1445  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

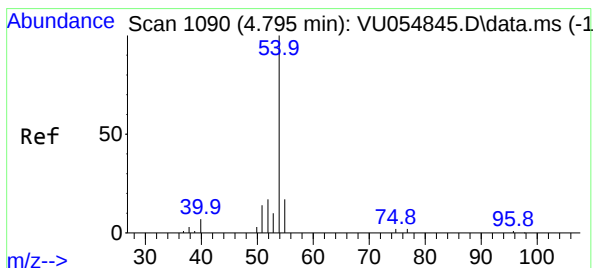
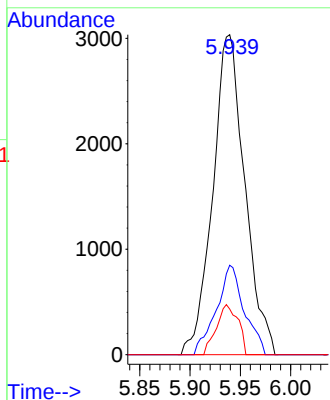
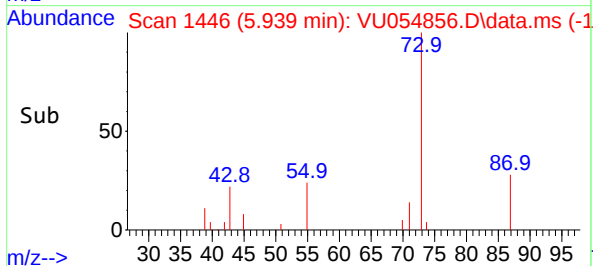
Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



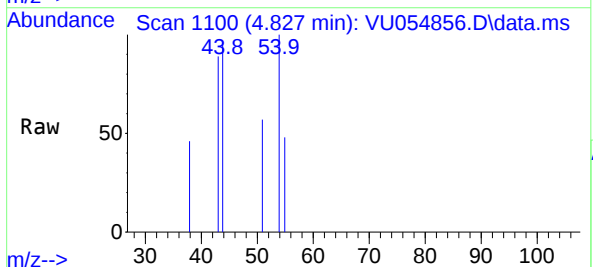
Tgt Ion: 73 Resp: 672  
Ion Ratio Lower Upper  
73 100  
87 24.4 19.6 29.4  
71 10.5 9.1 13.7

Manual Integrations  
APPROVED

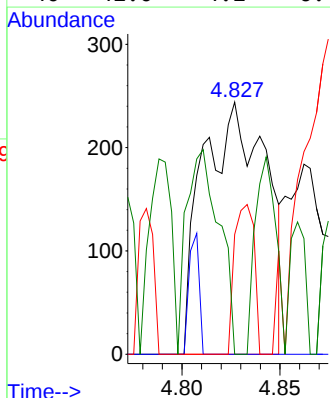
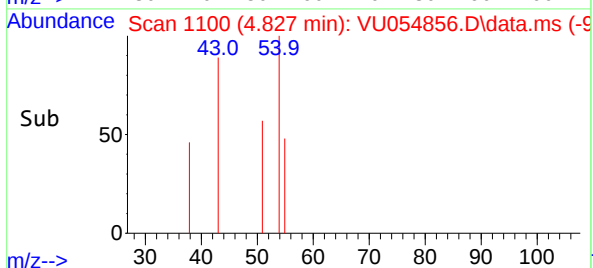
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

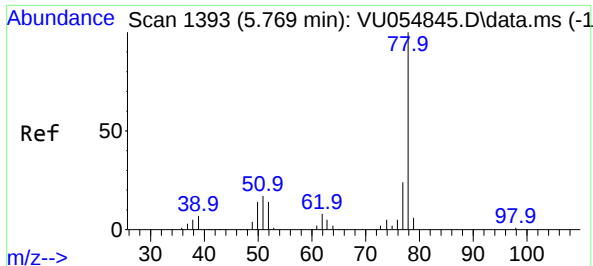


#34  
Propionitrile  
Concen: 1.375 ug/l m  
RT: 4.827 min Scan# 1100  
Delta R.T. 0.032 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



Tgt Ion: 54 Resp: 548  
Ion Ratio Lower Upper  
54 100  
52 7.7 13.8 20.8#  
55 0.0 4.8 7.2#  
40 42.0 4.2 6.4#





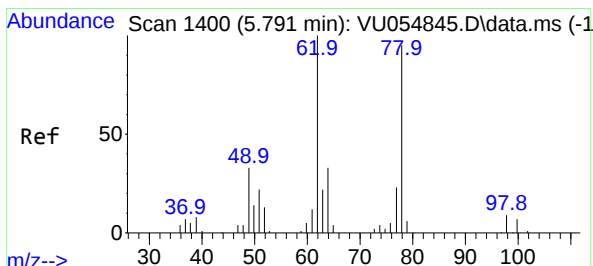
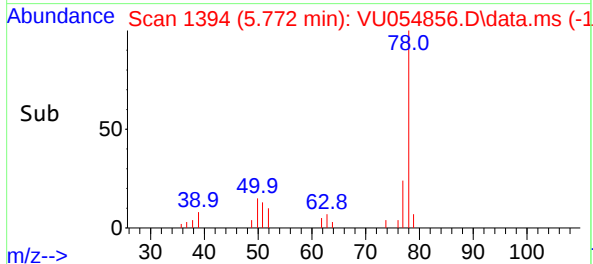
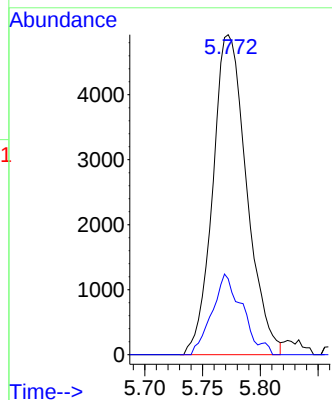
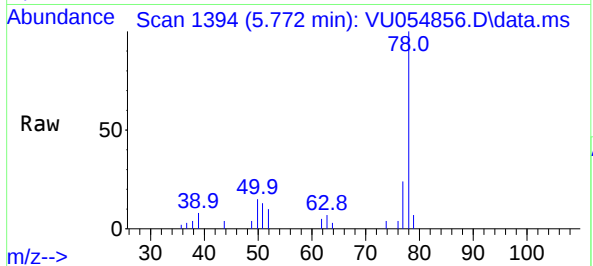
#35  
Benzene  
Concen: 0.459 ug/l  
RT: 5.772 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion: 78 Resp: 1006  
Ion Ratio Lower Upper  
78 100  
77 23.7 19.4 29.2

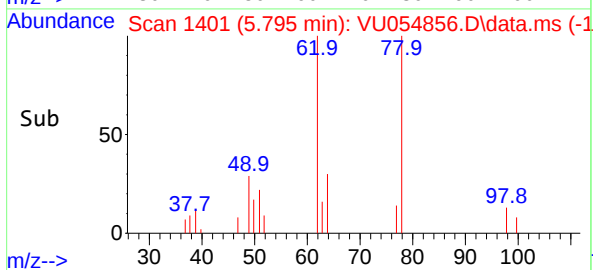
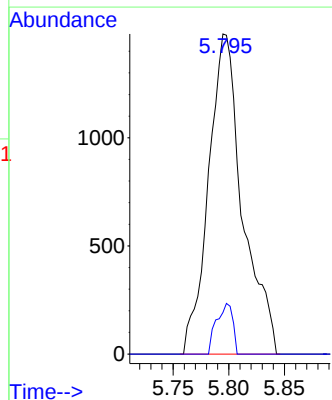
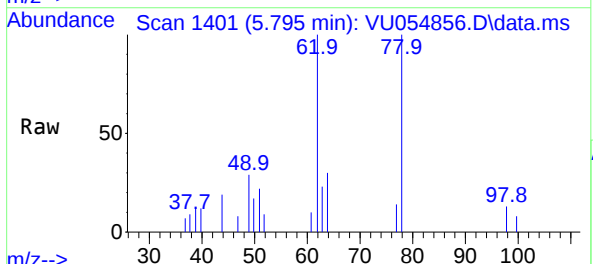
Manual Integrations  
APPROVED

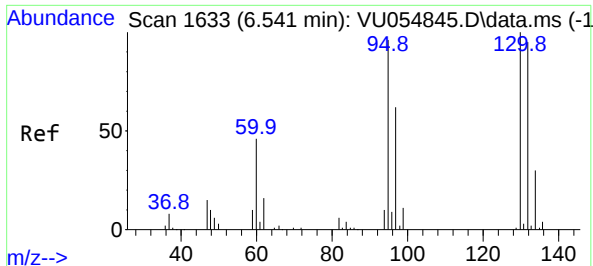
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#36  
1,2-Dichloroethane  
Concen: 0.500 ug/l  
RT: 5.795 min Scan# 1401  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

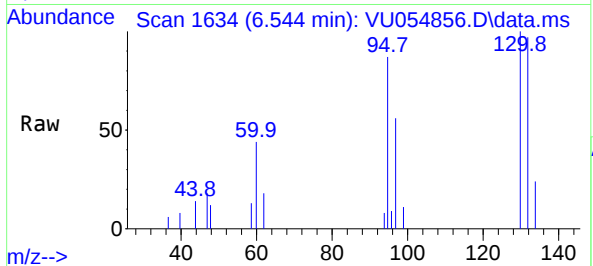
Tgt Ion: 62 Resp: 3144  
Ion Ratio Lower Upper  
62 100  
98 7.5 7.8 11.8#





#37  
Trichloroethene  
Concen: 0.472 ug/l  
RT: 6.544 min Scan# 1710  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

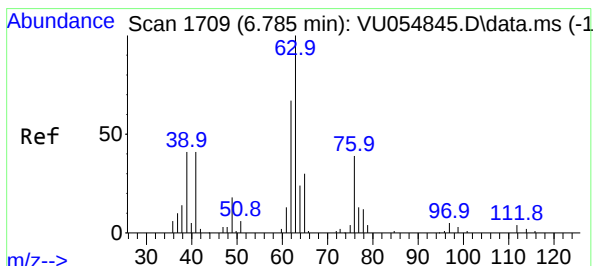
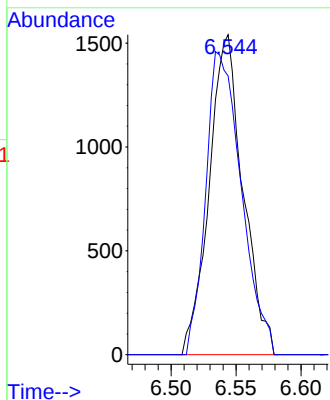
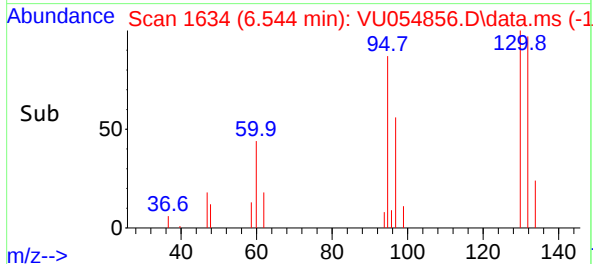
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



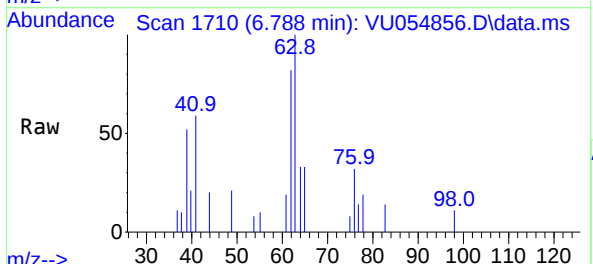
Tgt Ion:130 Resp: 279  
Ion Ratio Lower Upper  
130 100  
95 87.1 76.8 115.2

Manual Integrations  
APPROVED

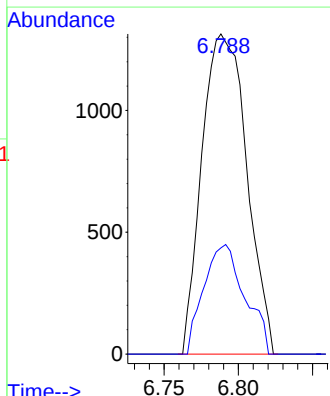
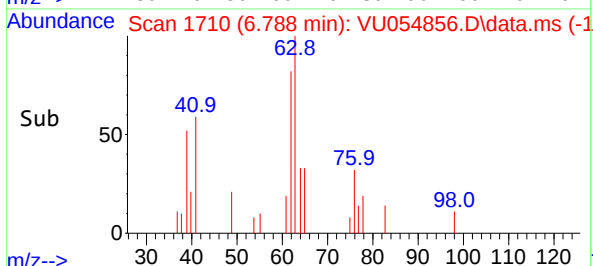
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

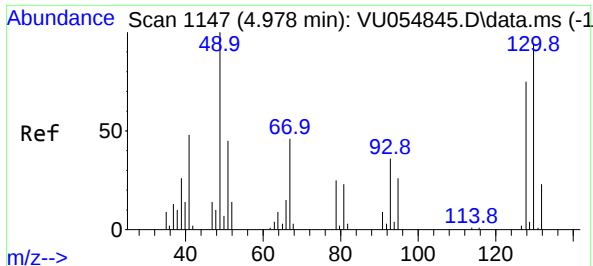


#38  
1,2-Dichloropropane  
Concen: 0.436 ug/l  
RT: 6.788 min Scan# 1710  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



Tgt Ion: 63 Resp: 2757  
Ion Ratio Lower Upper  
63 100  
65 33.2 24.3 36.5





#39

Methacrylonitrile

Concen: 0.337 ug/l m

RT: 4.991 min Scan# 1151

Delta R.T. 0.013 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Instrument :

MSVOA\_U

ClientSampleId :

LOQ-WATER-02-QT3-2023

Tgt Ion: 41 Resp: 478

Ion Ratio Lower Upper

41 100

67 27.6 77.0 115.4

39 41.6 50.4 75.6

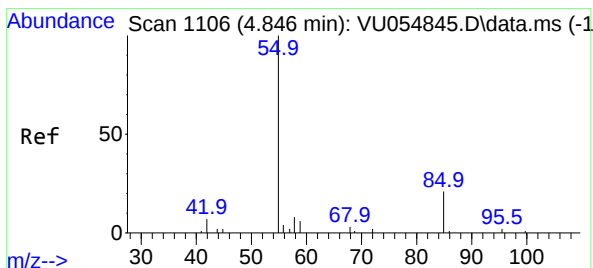
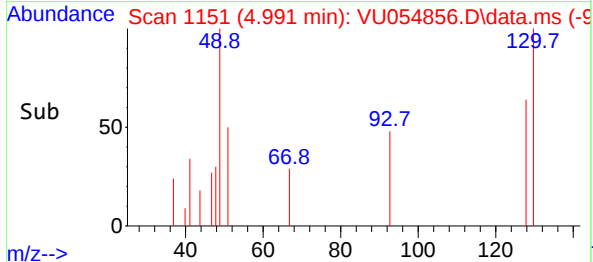
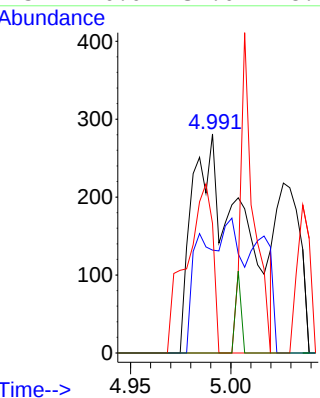
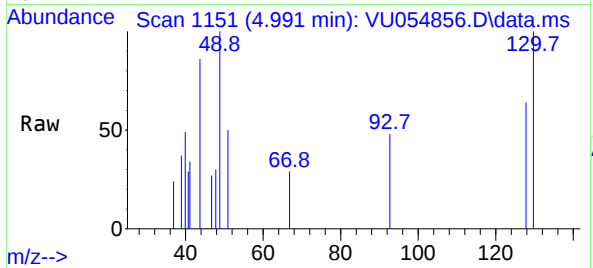
52 0.0 32.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/25/2023

Supervised By :Mahesh Dadoda 07/31/2023



#40

Methyl acrylate

Concen: 0.420 ug/l m

RT: 4.878 min Scan# 1116

Delta R.T. 0.032 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Tgt Ion: 55 Resp: 1016

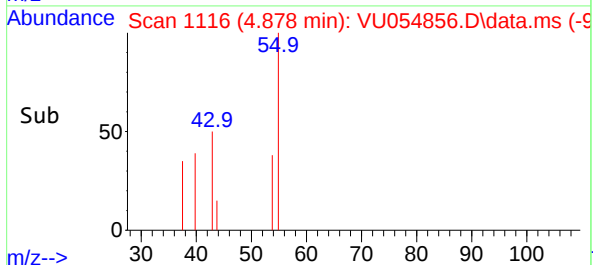
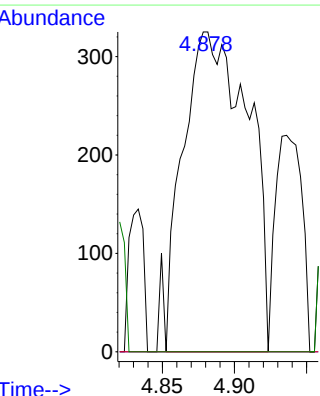
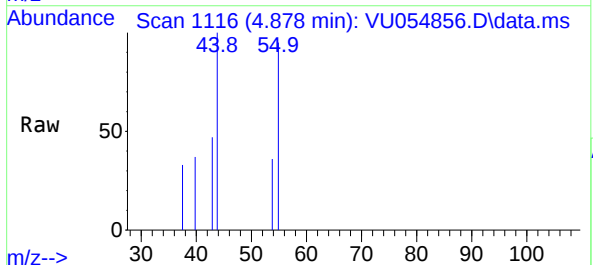
Ion Ratio Lower Upper

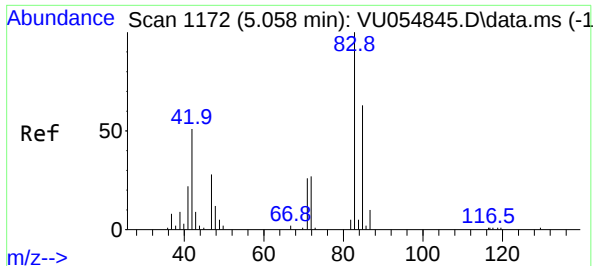
55 100

85 0.0 13.0 19.6

58 0.0 5.7 8.5

42 6.6 4.6 7.0





#41

Tetrahydrofuran

Concen: 0.907 ug/l m

RT: 5.094 min Scan# 1172

Delta R.T. 0.036 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Instrument :

MSVOA\_U

ClientSampleId :

LOQ-WATER-02-QT3-2023

Tgt Ion: 42 Resp: 760

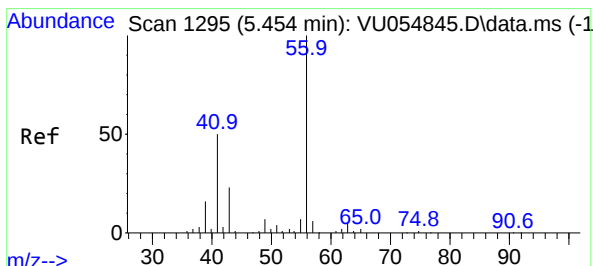
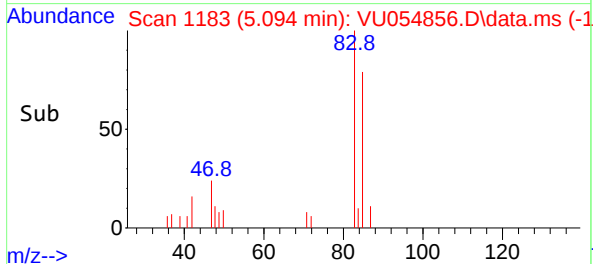
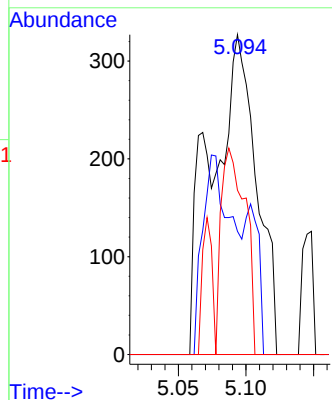
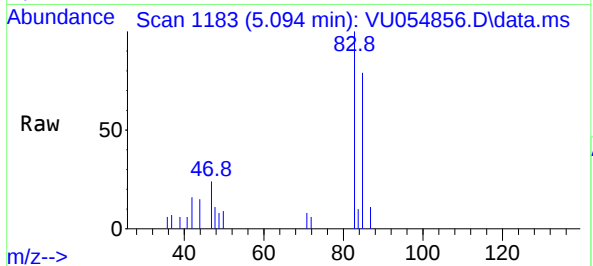
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 41.1  | 42.1  | 63.1  |
| 71  | 9.1   | 39.7  | 59.5  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/25/2023

Supervised By :Mahesh Dadoda 07/31/2023



#42

1-Chlorobutane

Concen: 0.500 ug/l

RT: 5.457 min Scan# 1296

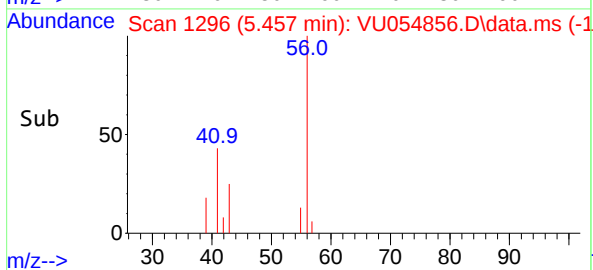
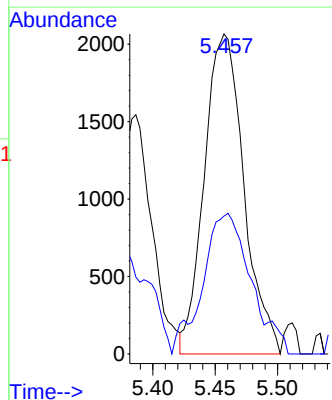
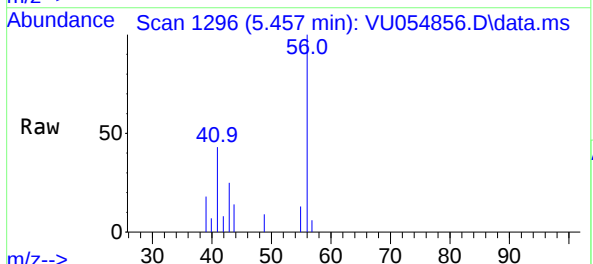
Delta R.T. 0.003 min

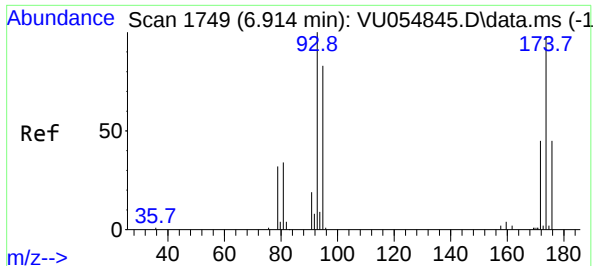
Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Tgt Ion: 56 Resp: 4563

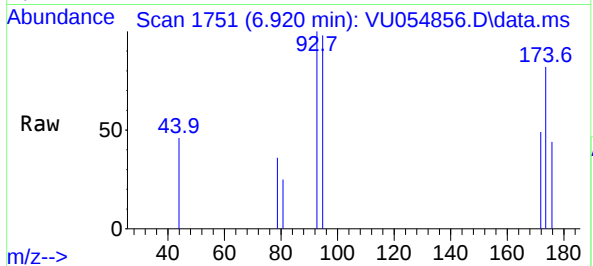
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 41  | 53.4  | 23.9  | 71.7  |





#43  
Dibromomethane  
Concen: 0.497 ug/l m  
RT: 6.920 min Scan# 1751  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

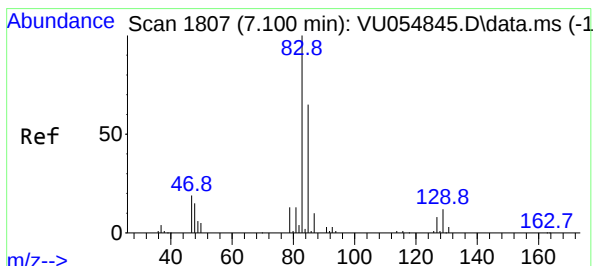
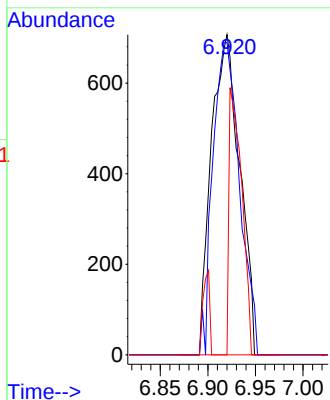
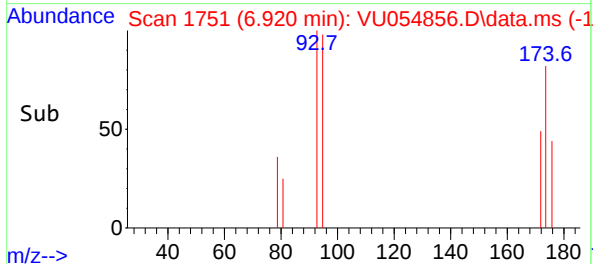
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



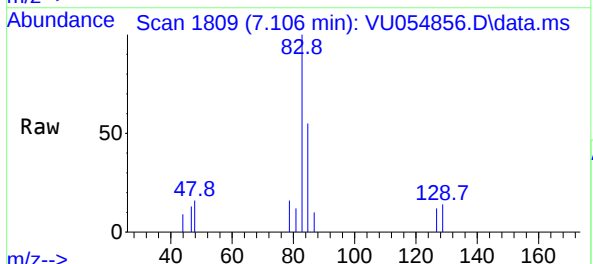
Tgt Ion: 93 Resp: 146  
Ion Ratio Lower Upper  
93 100  
95 91.5 64.7 97.1  
174 37.7 74.4 111.6

Manual Integrations  
APPROVED

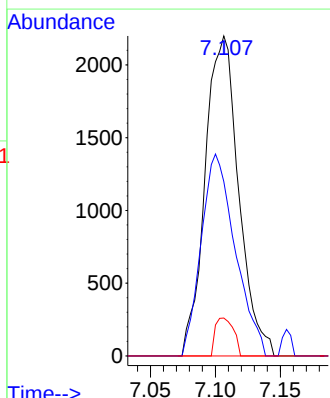
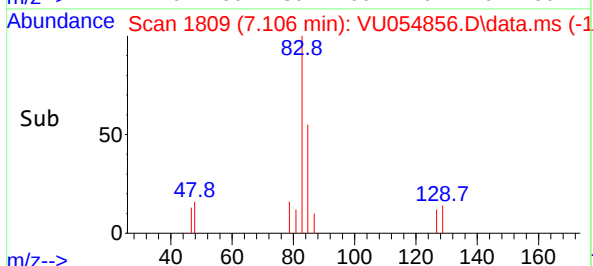
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

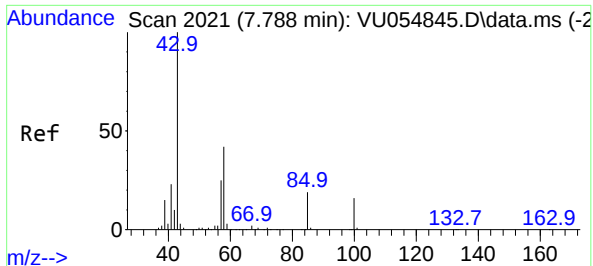


#44  
Bromodichloromethane  
Concen: 0.490 ug/l  
RT: 7.106 min Scan# 1809  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



Tgt Ion: 83 Resp: 3949  
Ion Ratio Lower Upper  
83 100  
85 54.5 52.2 78.2  
127 11.9 6.1 9.1





#45

4-Methyl-2-Pentanone

Concen: 2.338 ug/l

RT: 7.795 min Scan# 2021

Delta R.T. 0.006 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Instrument :

MSVOA\_U

ClientSampleId :

LOQ-WATER-02-QT3-2023

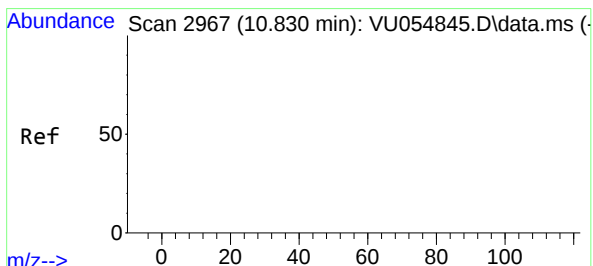
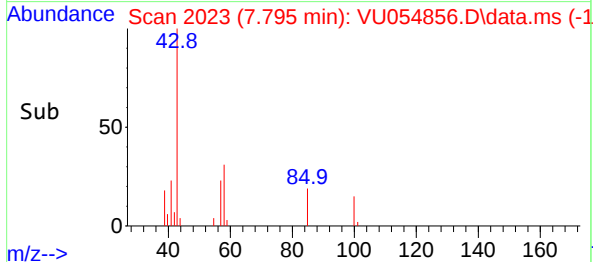
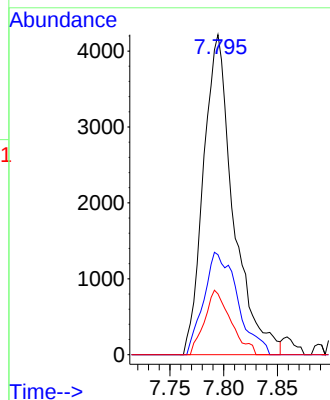
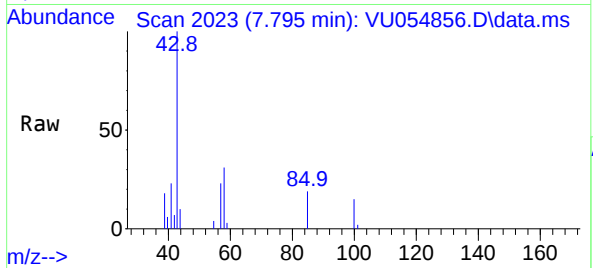
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 814   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 36.3  | 21.3  | 63.7  |
| 85       | 17.7  | 15.3  | 22.9  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/25/2023

Supervised By :Mahesh Dadoda 07/31/2023



#46

t-1,4-Dichloro-2-butene

Concen: 2.026 ug/l

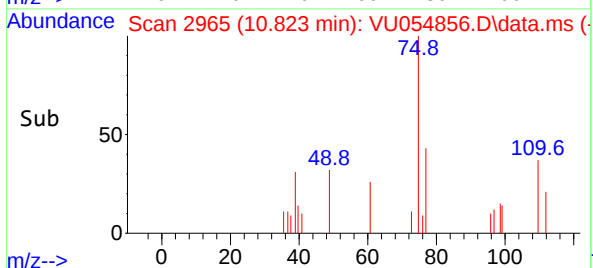
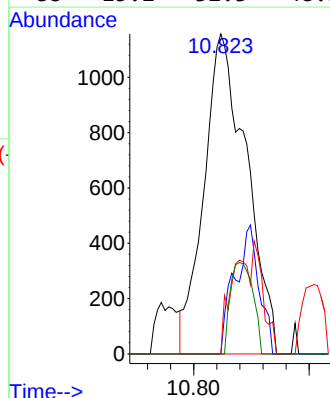
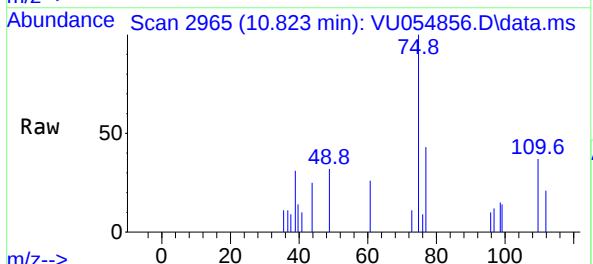
RT: 10.823 min Scan# 2965

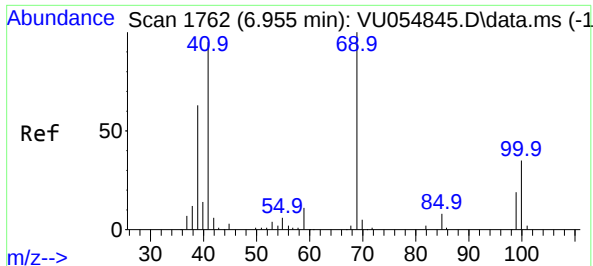
Delta R.T. -0.006 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

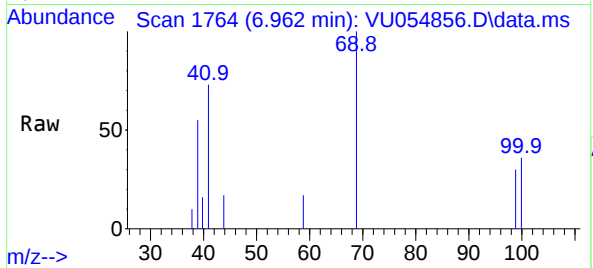
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 2954  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.0   | 62.9  | 94.3# |
| 89       | 14.3  | 47.8  | 71.8# |
| 88       | 15.2  | 32.3  | 48.5# |





#47  
Methyl methacrylate  
Concen: 0.958 ug/l  
RT: 6.962 min Scan# 1764  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

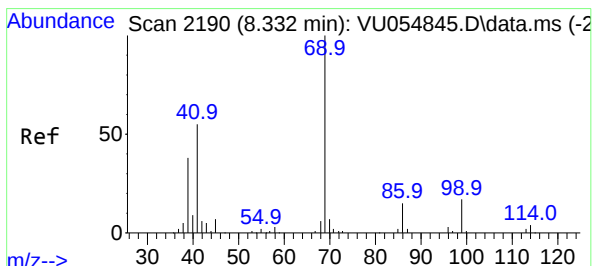
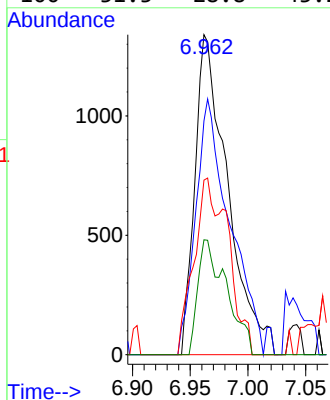
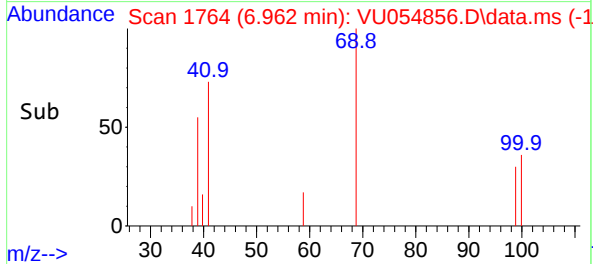
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



Tgt Ion: 69 Resp: 2648  
Ion Ratio Lower Upper  
69 100  
41 83.1 0.0 193.0  
39 57.7 50.4 75.6  
100 31.3 28.8 43.2

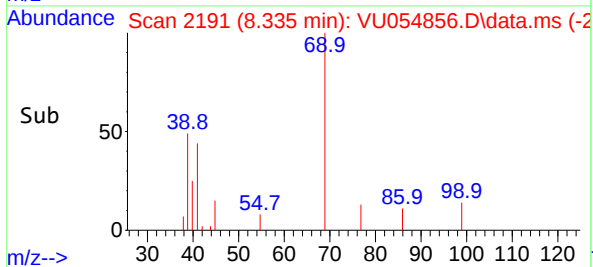
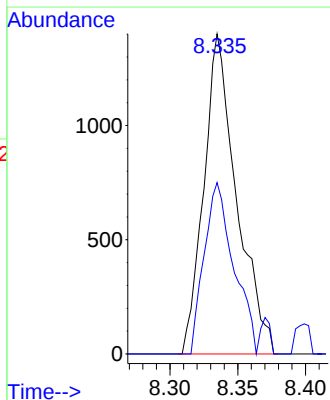
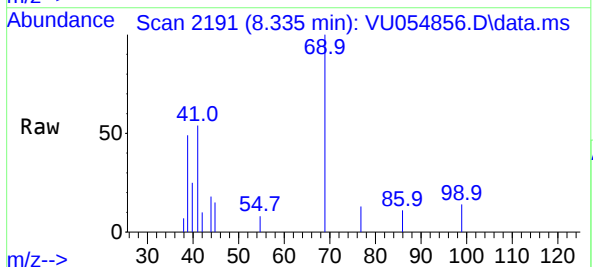
Manual Integrations  
APPROVED

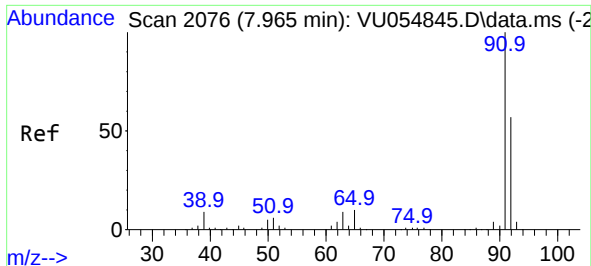
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#48  
Ethyl methacrylate  
Concen: 0.419 ug/l  
RT: 8.335 min Scan# 2191  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Tgt Ion: 69 Resp: 2352  
Ion Ratio Lower Upper  
69 100  
41 48.3 28.8 86.5





#49

Toluene

Concen: 0.465 ug/l

RT: 7.968 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Instrument :

MSVOA\_U

ClientSampleId :

LOQ-WATER-02-QT3-2023

Tgt Ion: 92 Resp: 649

Ion Ratio Lower Upper

92 100

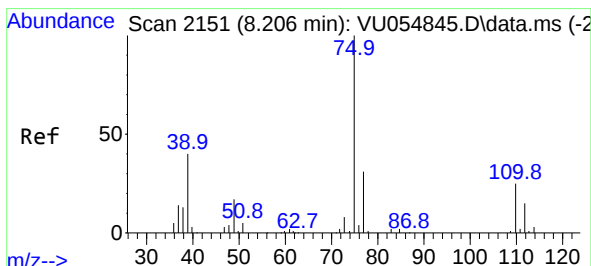
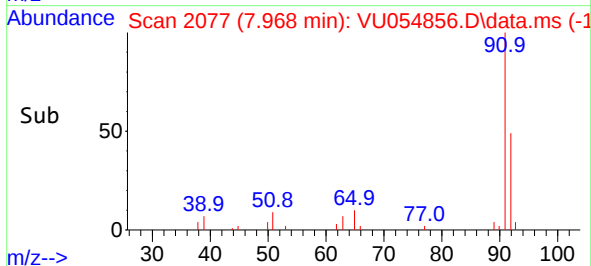
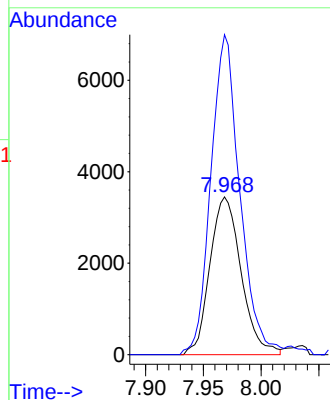
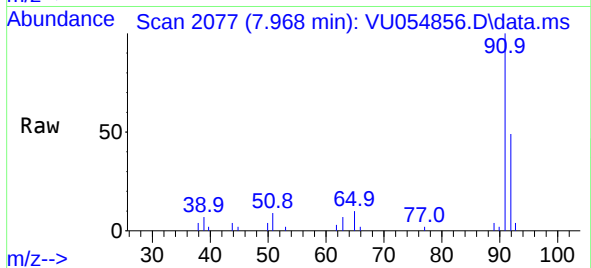
91 187.8 142.9 214.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/25/2023

Supervised By :Mahesh Dadoda 07/31/2023



#50

t-1,3-Dichloropropene

Concen: 0.445 ug/l

RT: 8.209 min Scan# 2152

Delta R.T. 0.003 min

Lab File: VU054856.D

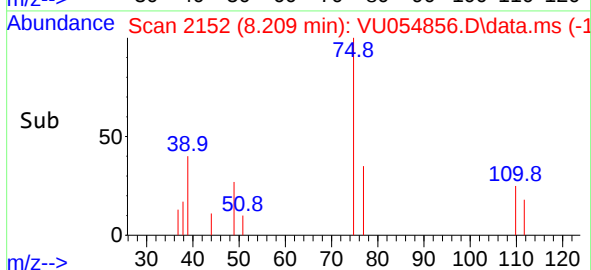
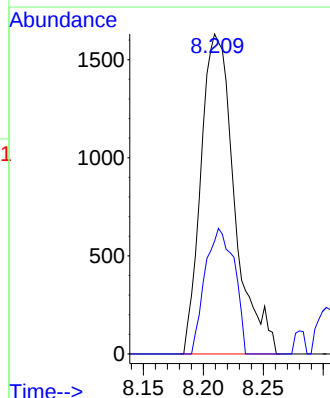
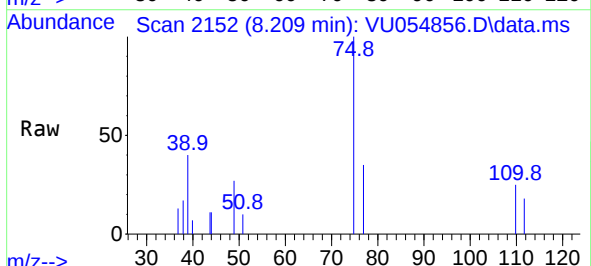
Acq: 24 Jul 2023 13:25

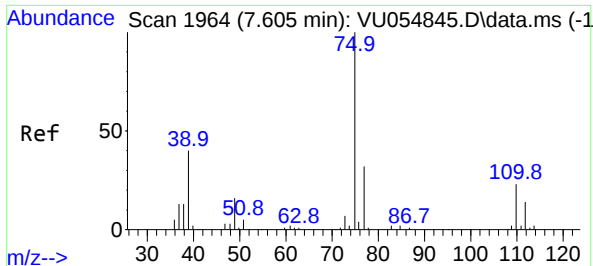
Tgt Ion: 75 Resp: 3182

Ion Ratio Lower Upper

75 100

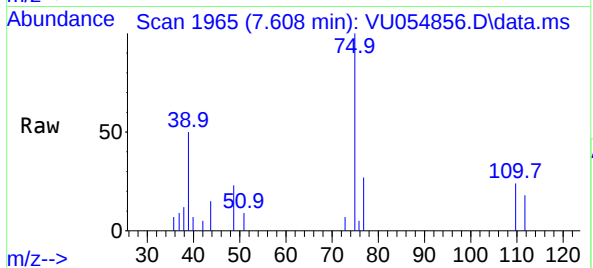
77 35.3 24.9 37.3





#51  
cis-1,3-Dichloropropene  
Concen: 0.426 ug/l  
RT: 7.608 min Scan# 1964  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

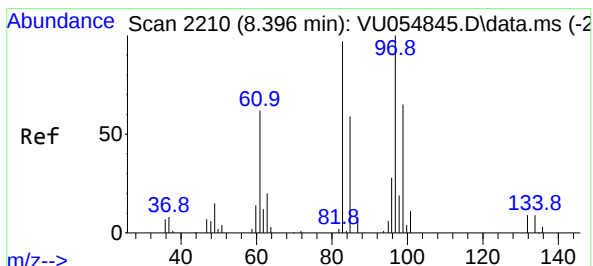
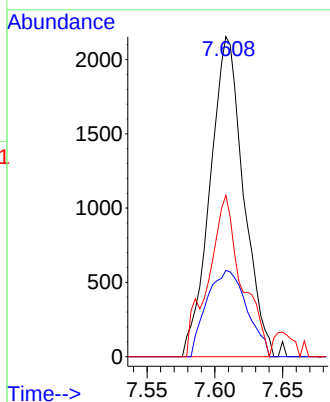
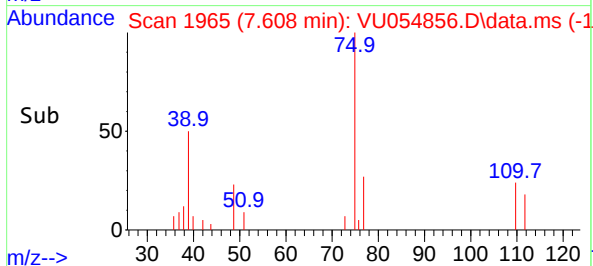
Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



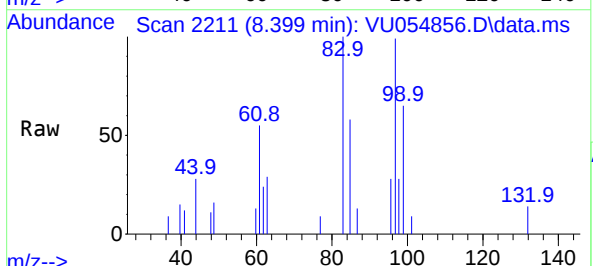
Tgt Ion: 75 Resp: 369  
Ion Ratio Lower Upper  
75 100  
77 26.9 25.8 38.8  
39 50.4 31.7 47.5

Manual Integrations  
APPROVED

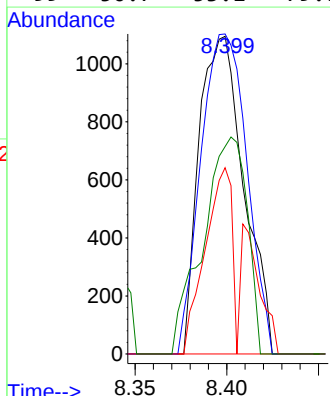
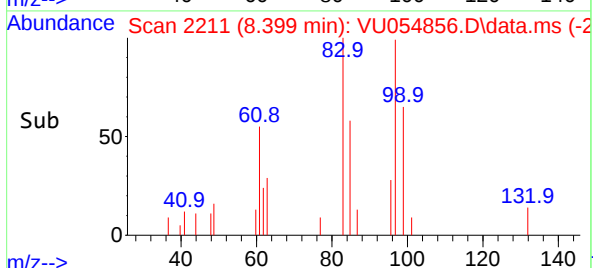
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

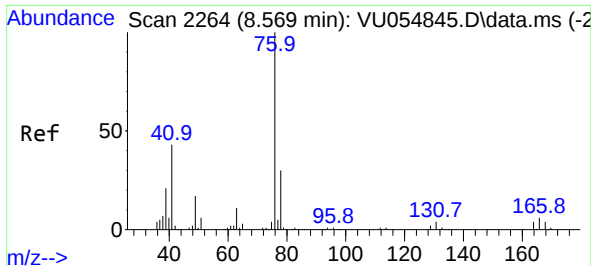


#52  
1,1,2-Trichloroethane  
Concen: 0.418 ug/l  
RT: 8.399 min Scan# 2211  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



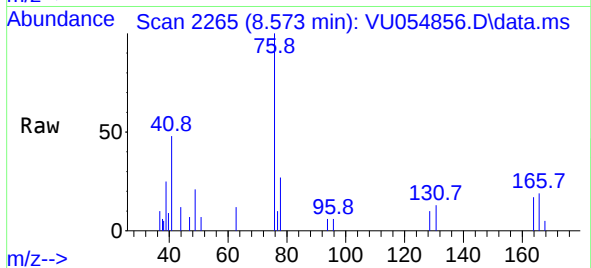
Tgt Ion: 97 Resp: 1855  
Ion Ratio Lower Upper  
97 100  
83 78.3 77.4 116.2  
85 45.6 47.8 71.8#  
99 50.7 53.1 79.7#





#53  
1,3-Dichloropropane  
Concen: 0.486 ug/l  
RT: 8.573 min Scan# 2102  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

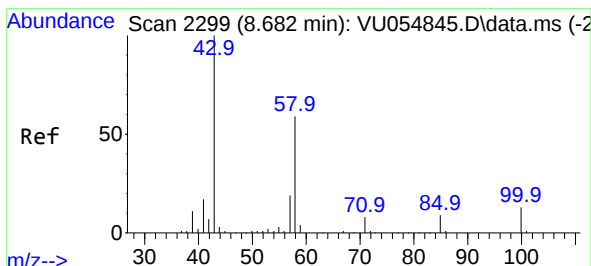
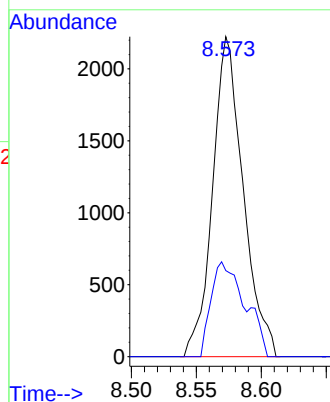
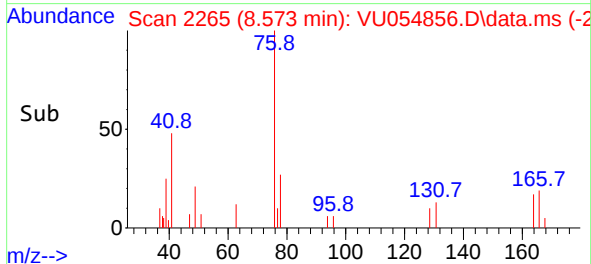
Instrument : MSVOA\_U  
ClientSampleId : LOQ-WATER-02-QT3-2023



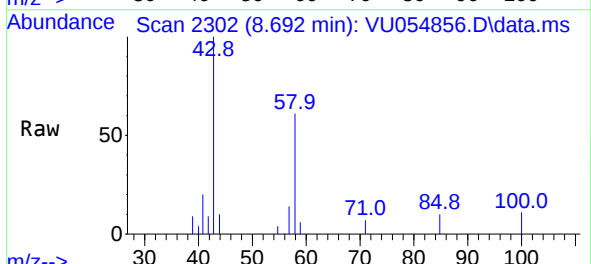
Tgt Ion: 76 Resp: 363  
Ion Ratio Lower Upper  
76 100  
78 32.9 24.6 36.8

Manual Integrations  
APPROVED

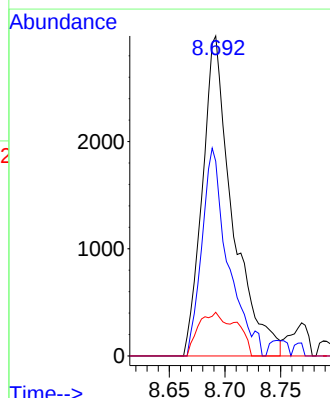
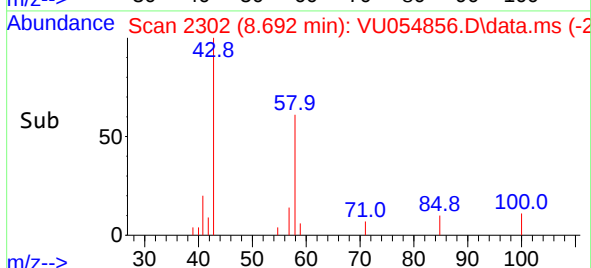
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

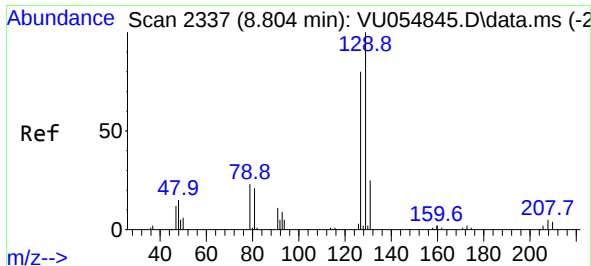


#54  
2-Hexanone  
Concen: 2.307 ug/l  
RT: 8.692 min Scan# 2302  
Delta R.T. 0.010 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



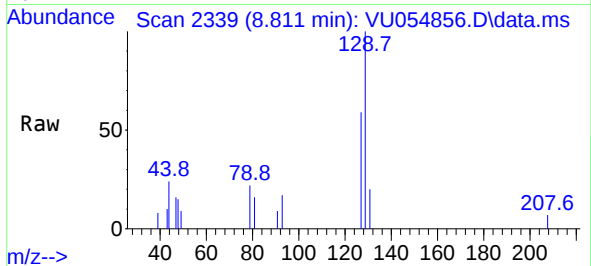
Tgt Ion: 43 Resp: 5600  
Ion Ratio Lower Upper  
43 100  
58 56.2 38.9 78.9  
57 12.7 0.0 38.7





#55  
Dibromochloromethane  
Concen: 0.448 ug/l  
RT: 8.811 min Scan# 2378  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

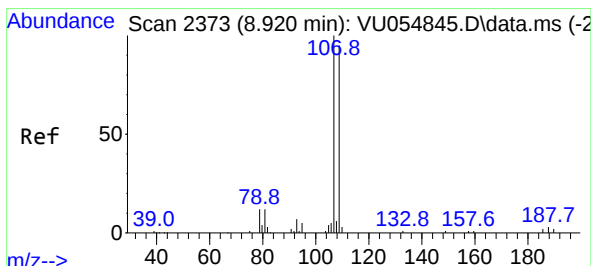
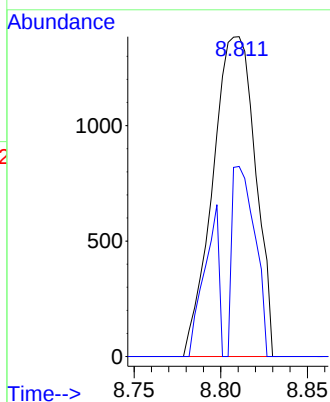
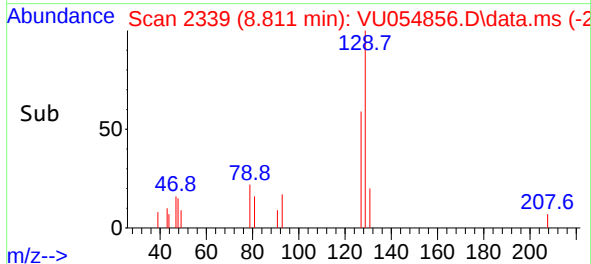
Instrument : MSVOA\_U  
ClientSampleId : LOQ-WATER-02-QT3-2023



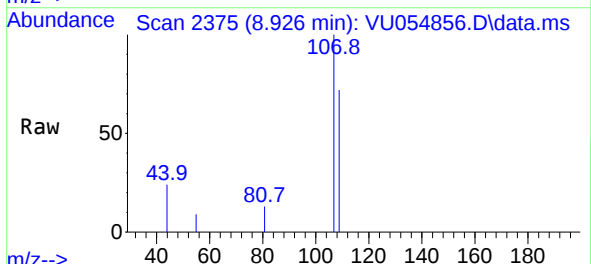
Tgt Ion:129 Resp: 2378  
Ion Ratio Lower Upper  
129 100  
127 31.8 61.4 92.0

Manual Integrations  
APPROVED

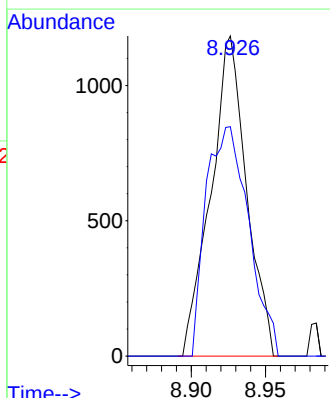
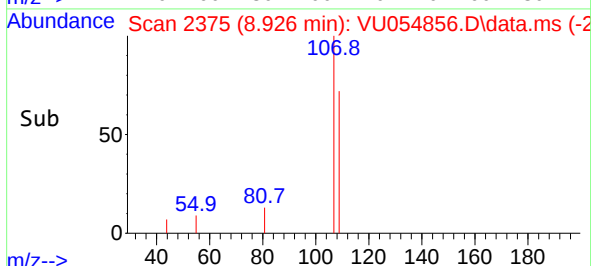
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

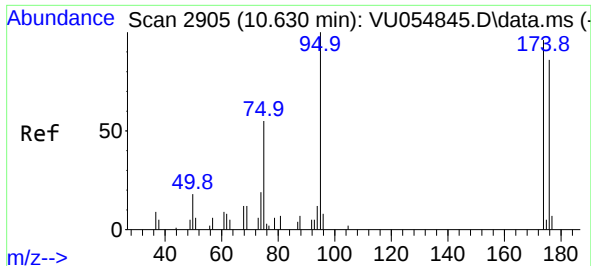


#56  
1,2-Dibromoethane  
Concen: 0.510 ug/l  
RT: 8.926 min Scan# 2375  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



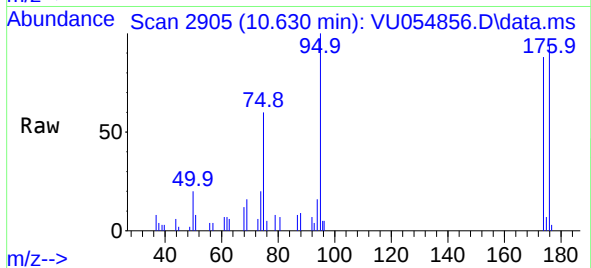
Tgt Ion:107 Resp: 1980  
Ion Ratio Lower Upper  
107 100  
109 85.5 0.0 185.4





#57  
4-Bromofluorobenzene  
Concen: 1.025 ug/l  
RT: 10.630 min Scan# 2905  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

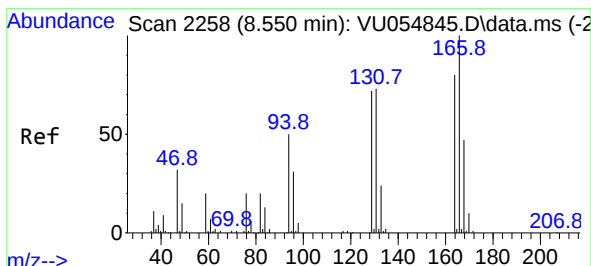
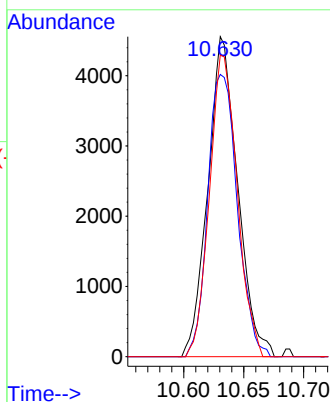
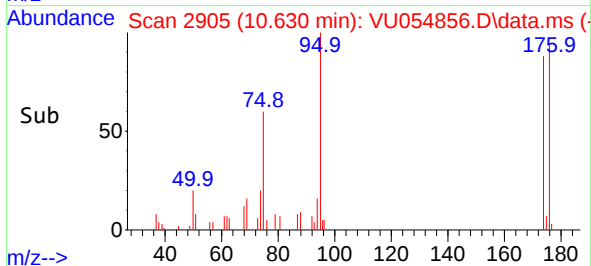
Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



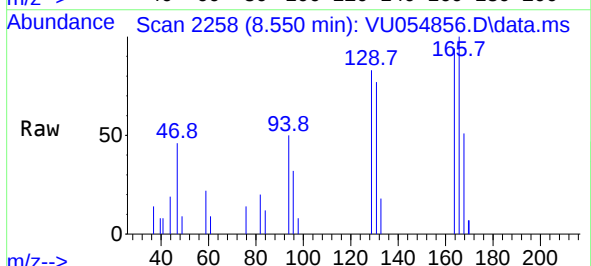
Tgt Ion: 95 Resp: 7852  
Ion Ratio Lower Upper  
95 100  
174 87.8 79.3 118.9  
176 87.9 71.5 107.3

Manual Integrations  
APPROVED

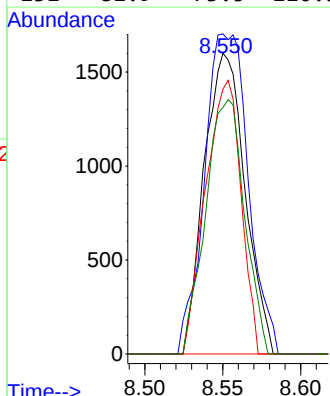
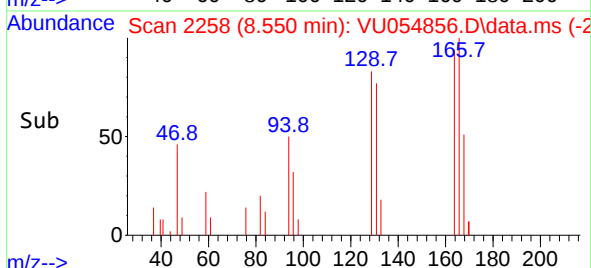
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

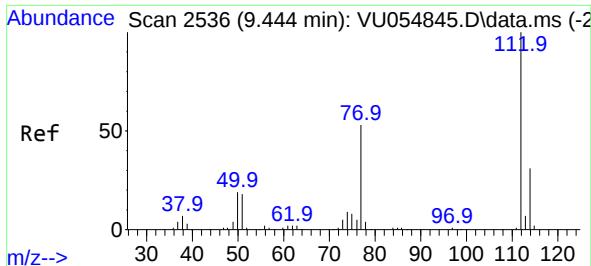


#58  
Tetrachloroethene  
Concen: 0.564 ug/l  
RT: 8.550 min Scan# 2258  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



Tgt Ion:164 Resp: 2908  
Ion Ratio Lower Upper  
164 100  
166 106.4 100.4 150.6  
129 88.1 71.9 107.9  
131 81.9 73.5 110.3





#59

Chlorobenzene

Concen: 0.474 ug/l

RT: 9.447 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

Instrument :

MSVOA\_U

ClientSampleId :

LOQ-WATER-02-QT3-2023

Tgt Ion:112 Resp: 789

Ion Ratio Lower Upper

112 100

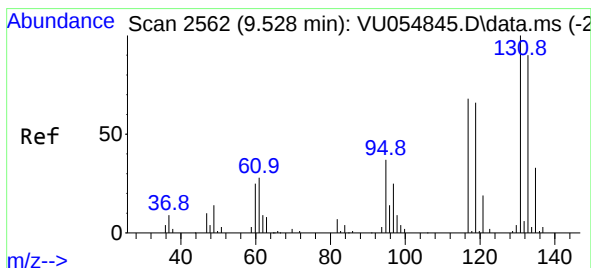
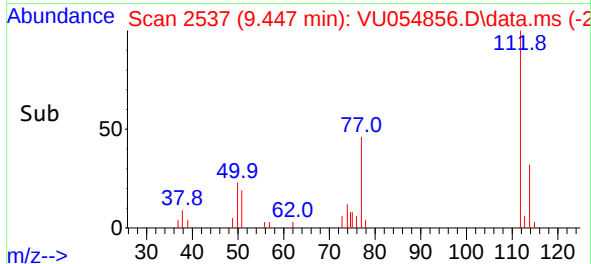
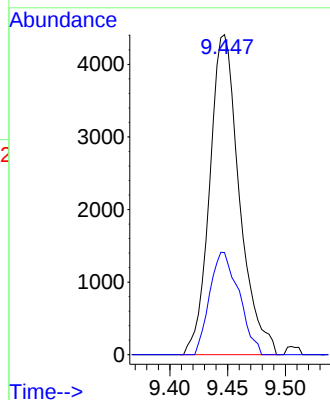
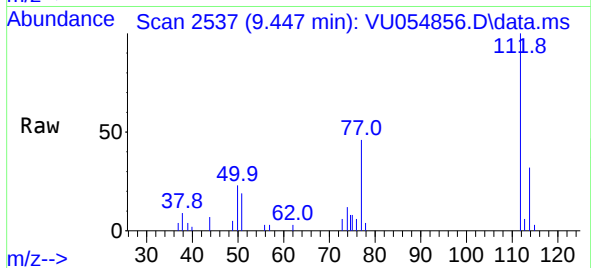
114 30.1 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/25/2023

Supervised By :Mahesh Dadoda 07/31/2023



#60

1,1,1,2-Tetrachloroethane

Concen: 0.426 ug/l

RT: 9.534 min Scan# 2564

Delta R.T. 0.006 min

Lab File: VU054856.D

Acq: 24 Jul 2023 13:25

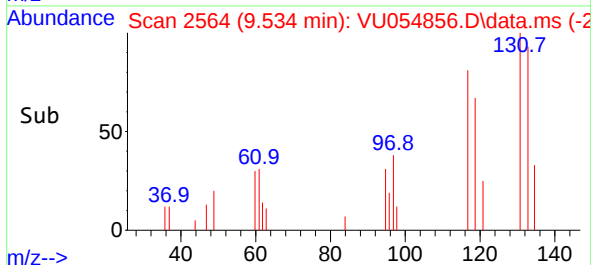
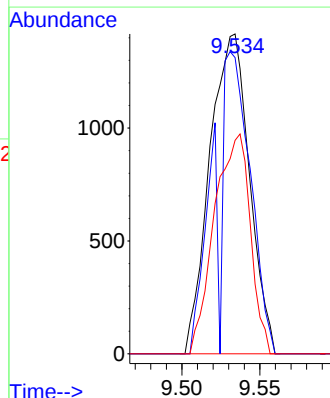
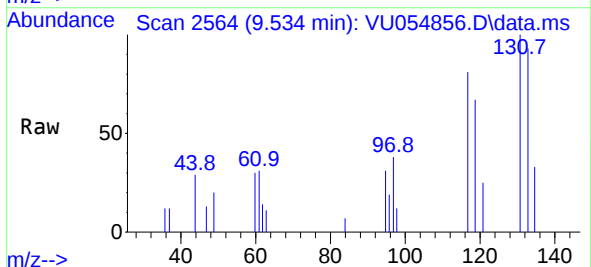
Tgt Ion:131 Resp: 2506

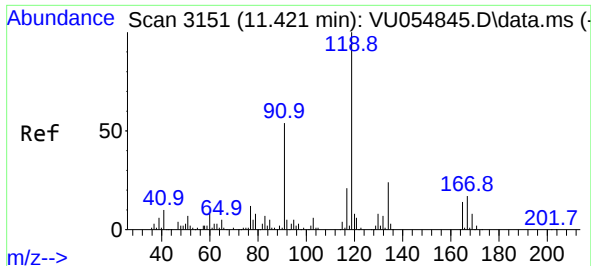
Ion Ratio Lower Upper

131 100

133 63.0 74.2 111.4#

119 62.3 51.0 76.4





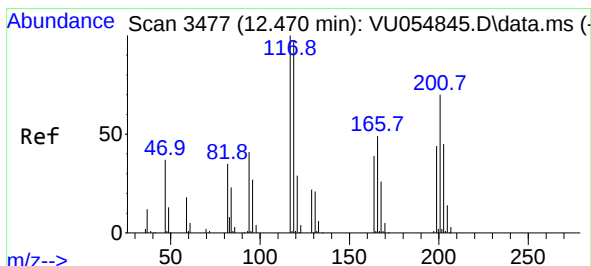
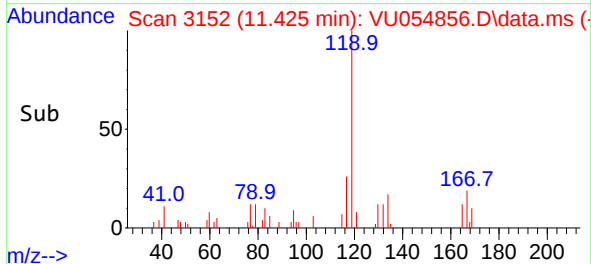
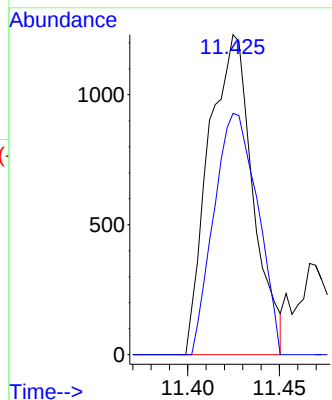
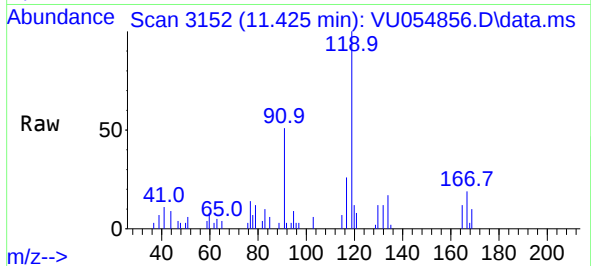
#61  
Pentachloroethane  
Concen: 0.446 ug/l  
RT: 11.425 min Scan# 3151  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion:117 Resp: 2064  
Ion Ratio Lower Upper  
117 100  
167 74.4 65.3 97.9

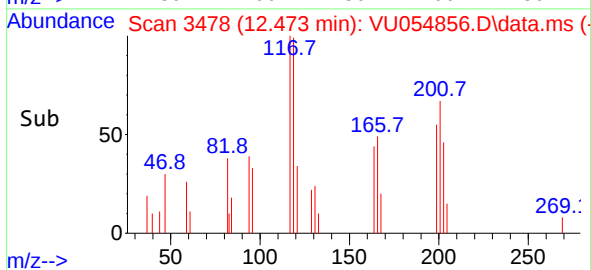
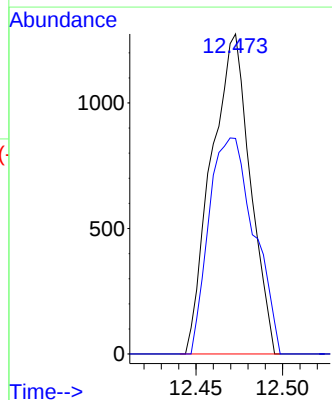
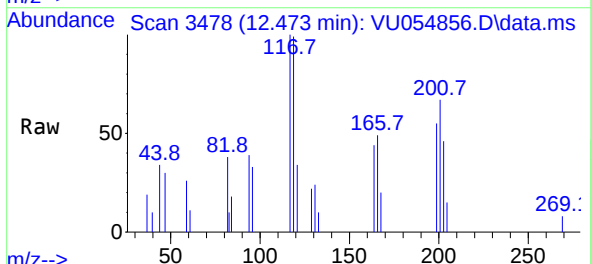
Manual Integrations  
APPROVED

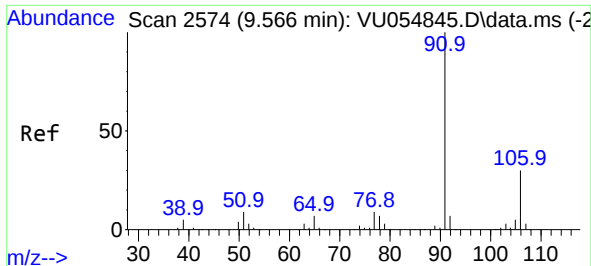
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#62  
Hexachloroethane  
Concen: 0.418 ug/l  
RT: 12.473 min Scan# 3478  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Tgt Ion:117 Resp: 1987  
Ion Ratio Lower Upper  
117 100  
201 78.5 56.1 84.1





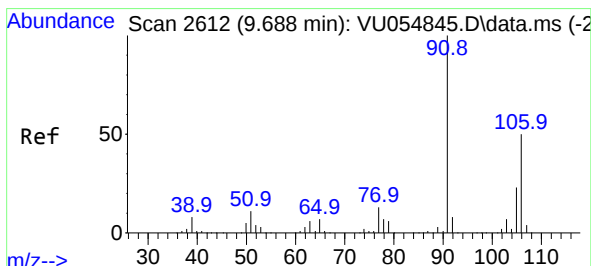
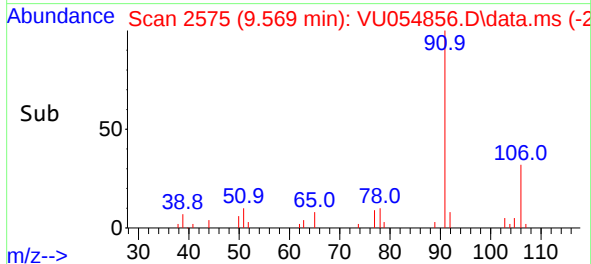
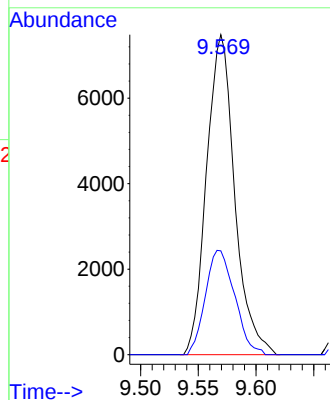
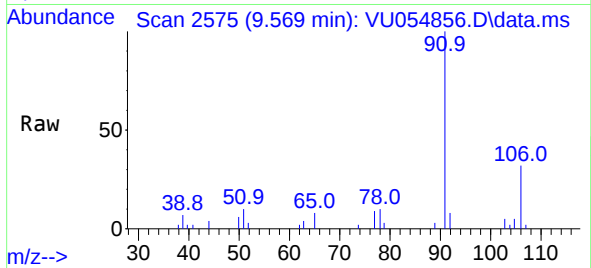
#63  
Ethyl Benzene  
Concen: 0.446 ug/l  
RT: 9.569 min Scan# 2167  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion: 91 Resp: 12672  
Ion Ratio Lower Upper  
91 100  
106 32.4 24.2 36.2

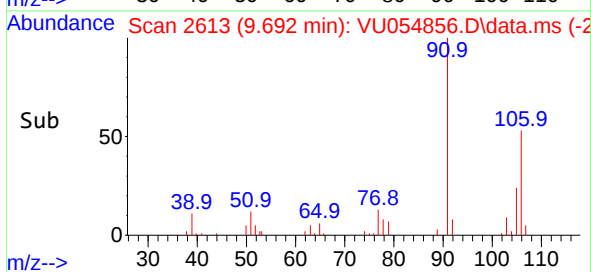
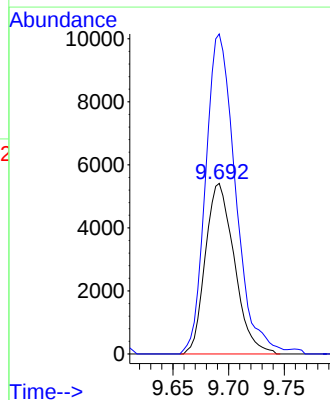
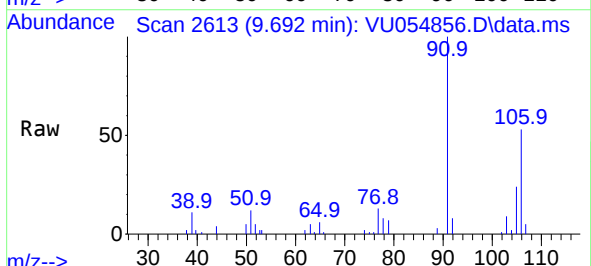
Manual Integrations  
APPROVED

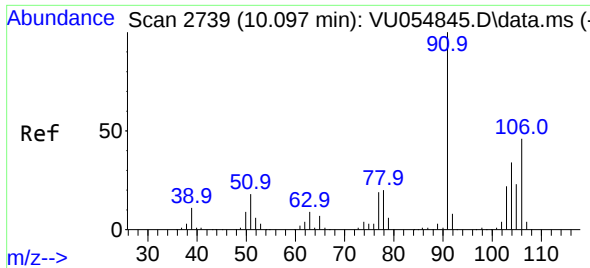
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#64  
m/p-Xylenes  
Concen: 0.912 ug/l  
RT: 9.692 min Scan# 2613  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Tgt Ion:106 Resp: 9799  
Ion Ratio Lower Upper  
106 100  
91 193.0 158.8 238.2





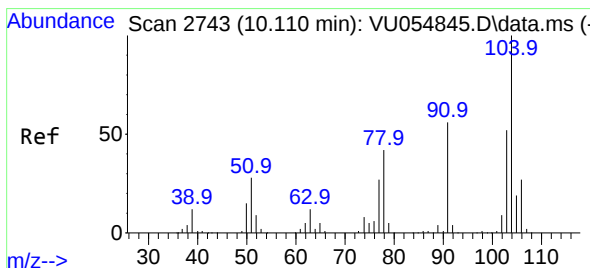
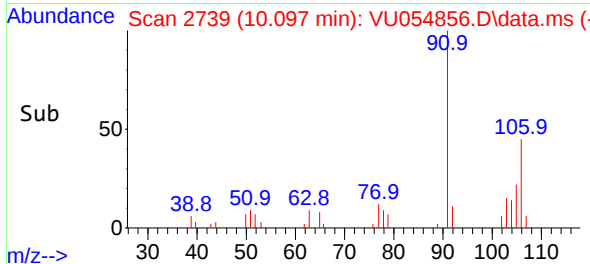
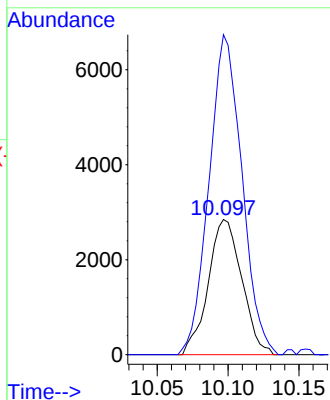
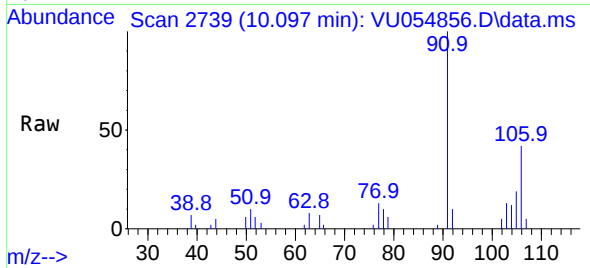
#65  
o-Xylene  
Concen: 0.434 ug/l  
RT: 10.097 min Scan# 2739  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion:106 Resp: 469  
Ion Ratio Lower Upper  
106 100  
91 232.1 108.9 326.8

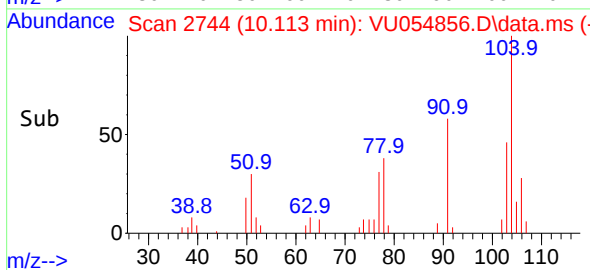
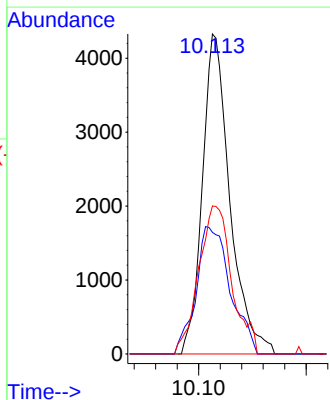
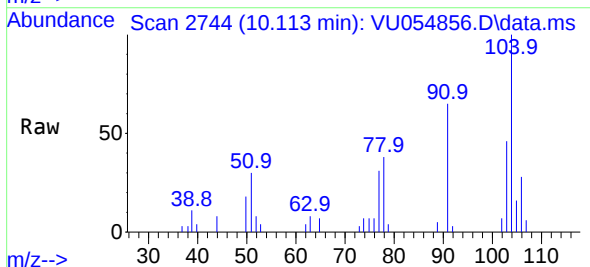
Manual Integrations  
APPROVED

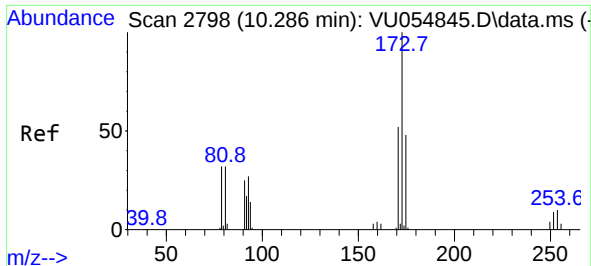
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#66  
Styrene  
Concen: 0.442 ug/l  
RT: 10.113 min Scan# 2744  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

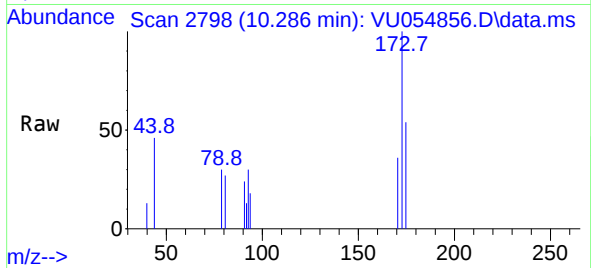
Tgt Ion:104 Resp: 7680  
Ion Ratio Lower Upper  
104 100  
78 49.6 37.5 56.3  
103 55.8 45.2 67.8





#67  
Bromoform  
Concen: 0.448 ug/l  
RT: 10.286 min Scan# 2798  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

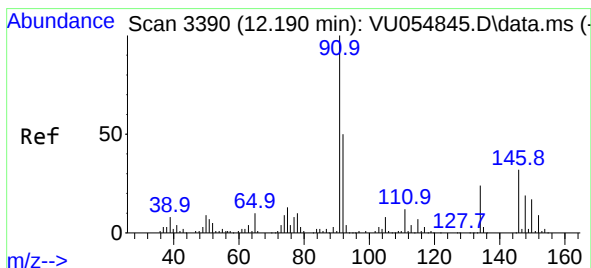
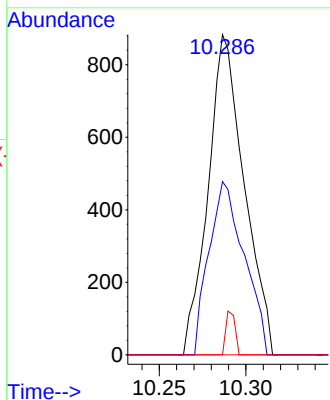
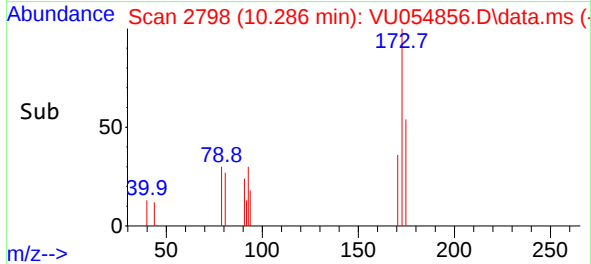
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



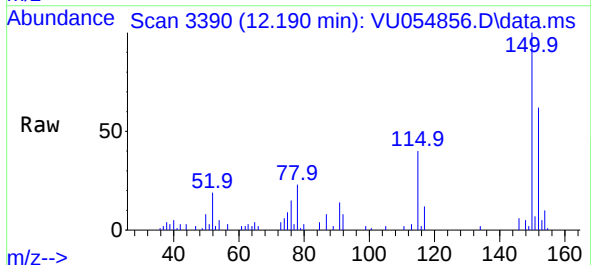
Tgt Ion:173 Resp: 1280  
Ion Ratio Lower Upper  
173 100  
175 52.9 39.0 58.6  
254 3.4 7.4 11.0

Manual Integrations  
APPROVED

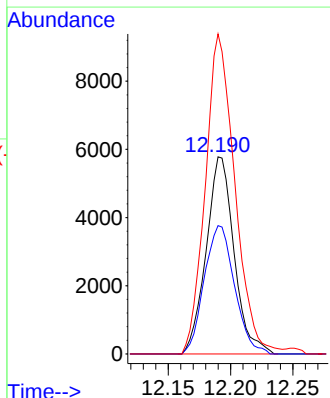
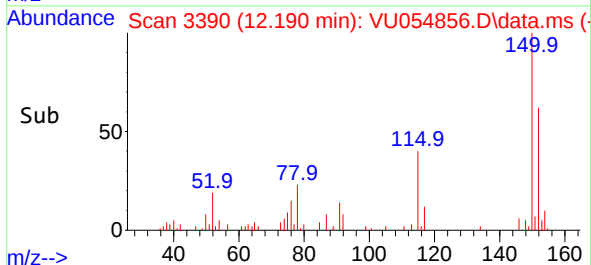
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

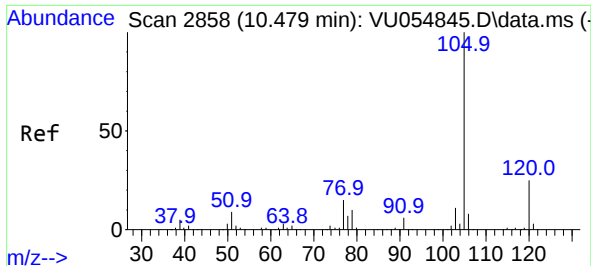


#68  
1,2-Dichlorobenzene-d4  
Concen: 1.015 ug/l  
RT: 12.190 min Scan# 3390  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



Tgt Ion:152 Resp: 9008  
Ion Ratio Lower Upper  
152 100  
115 70.6 0.0 234.8  
150 171.6 0.0 598.2





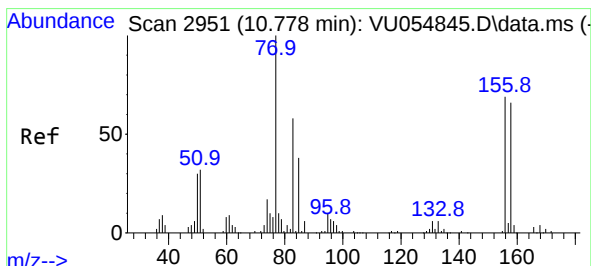
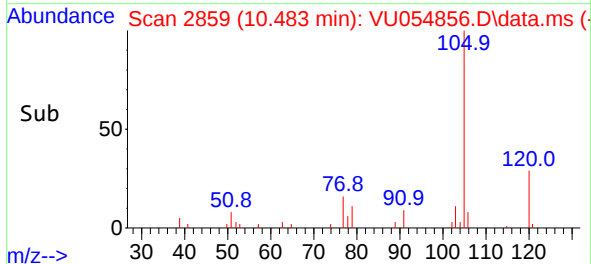
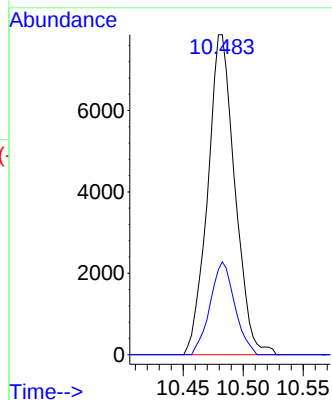
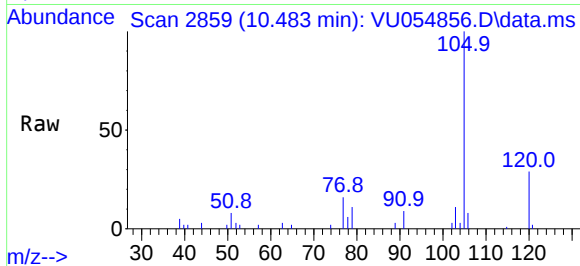
#69  
Isopropylbenzene  
Concen: 0.422 ug/l  
RT: 10.483 min Scan# 2858  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion: 105 Resp: 1239  
Ion Ratio Lower Upper  
105 100  
120 26.2 12.6 37.6

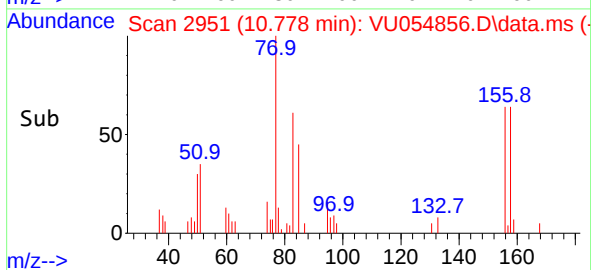
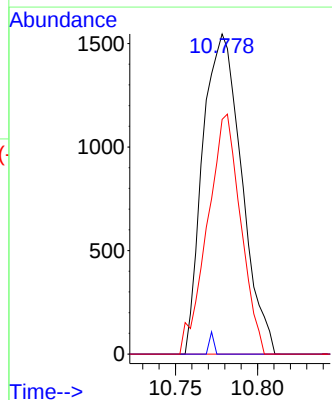
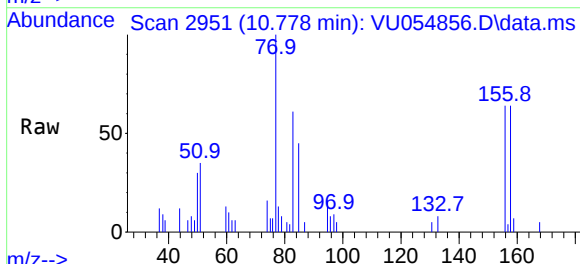
Manual Integrations  
APPROVED

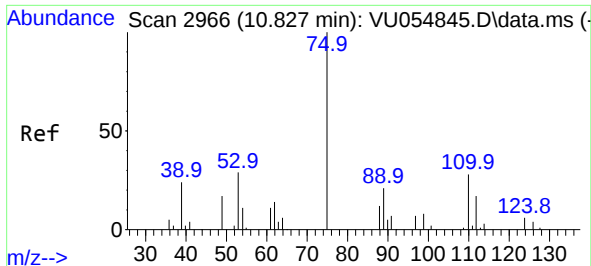
Reviewed By : John Carlone 07/25/2023  
Supervised By : Mahesh Dadoda 07/31/2023



#70  
1,1,2,2-Tetrachloroethane  
Concen: 0.458 ug/l  
RT: 10.778 min Scan# 2951  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

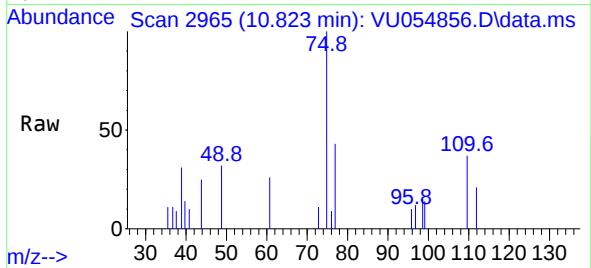
Tgt Ion: 83 Resp: 2536  
Ion Ratio Lower Upper  
83 100  
131 0.8 7.5 11.3#  
85 64.2 53.0 79.6





#71  
1,2,3-Trichloropropane  
Concen: 0.518 ug/l m  
RT: 10.823 min Scan# 2965  
Delta R.T. -0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

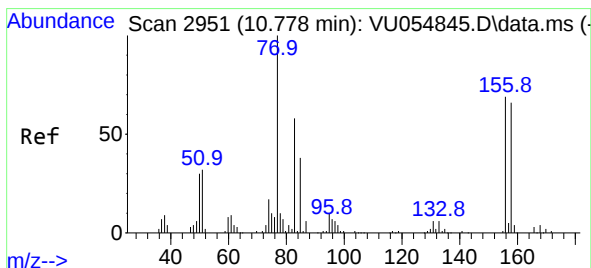
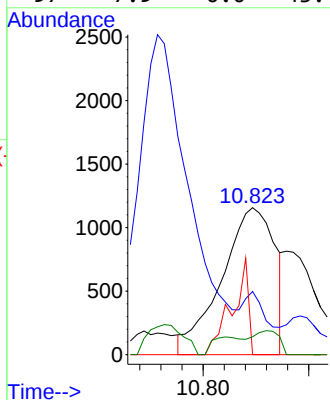
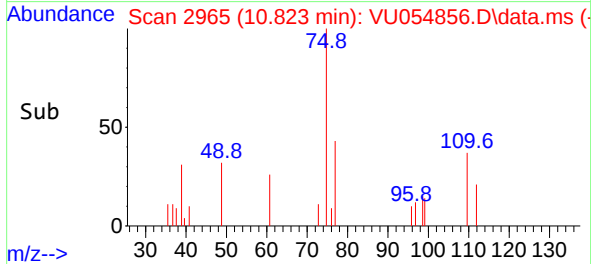
Instrument : MSVOA\_U  
ClientSampleId : LOQ-WATER-02-QT3-2023



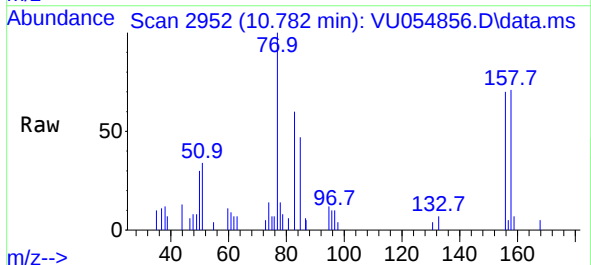
| Tgt Ion:  | 75    | Resp: | 202  |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 77        | 19.5  | 0.0   | 0.0  |
| 110       | 20.2  | 0.0   | 80.8 |
| 97        | 7.9   | 0.0   | 43.4 |

Manual Integrations  
APPROVED

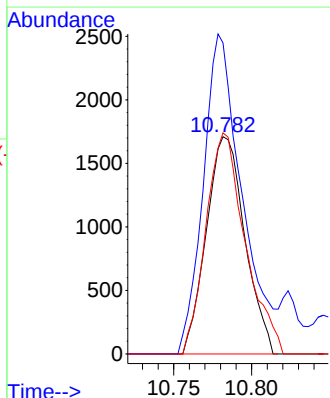
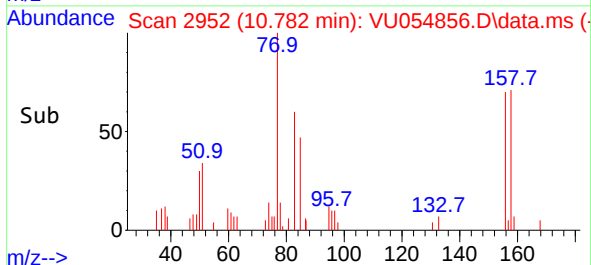
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

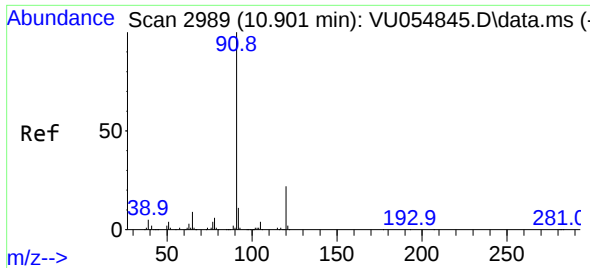


#72  
Bromobenzene  
Concen: 0.433 ug/l  
RT: 10.782 min Scan# 2952  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



| Tgt Ion:  | 156   | Resp: | 2930  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 156       | 100   |       |       |
| 77        | 148.8 | 0.0   | 293.2 |
| 158       | 103.9 | 0.0   | 189.8 |





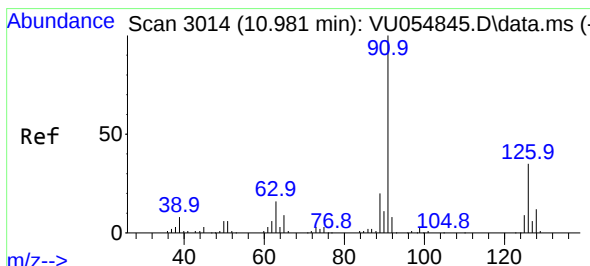
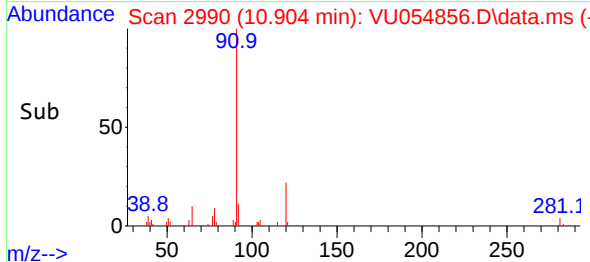
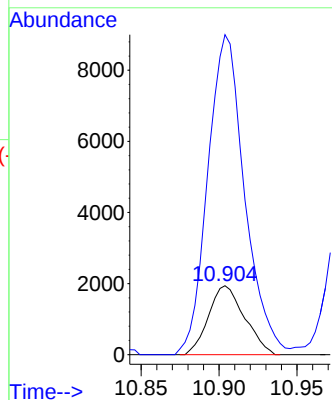
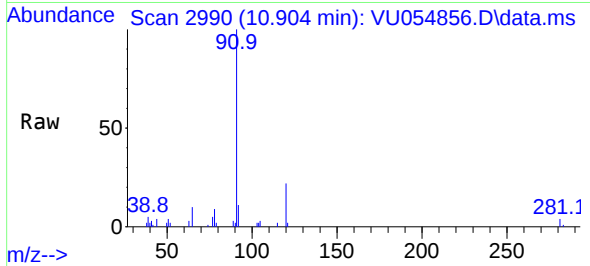
#73  
n-propylbenzene  
Concen: 0.396 ug/l  
RT: 10.904 min Scan# 2989  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion:120 Resp: 3120  
Ion Ratio Lower Upper  
120 100  
91 474.9 361.8 542.6

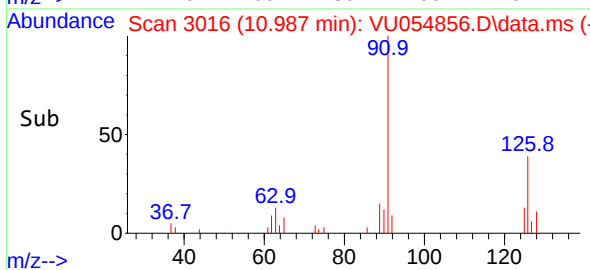
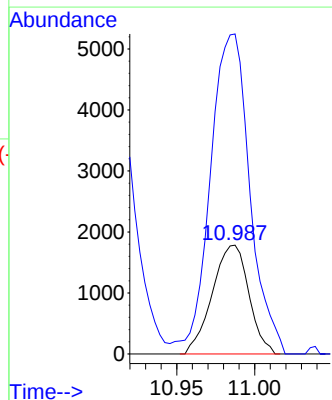
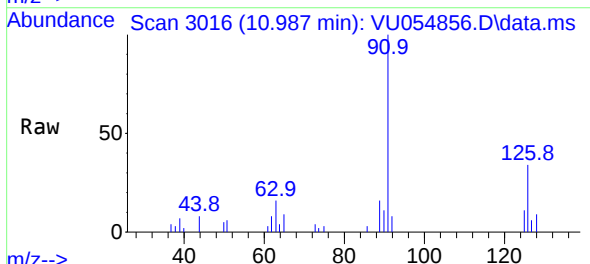
Manual Integrations  
APPROVED

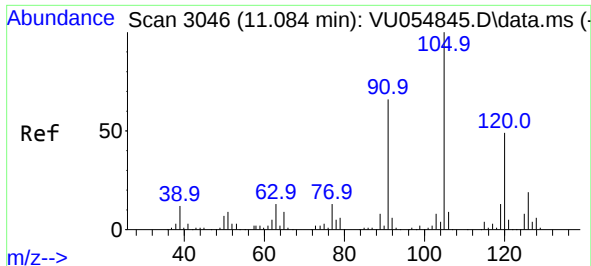
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#74  
2-Chlorotoluene  
Concen: 0.424 ug/l  
RT: 10.987 min Scan# 3016  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Tgt Ion:126 Resp: 2910  
Ion Ratio Lower Upper  
126 100  
91 316.6 0.0 561.4





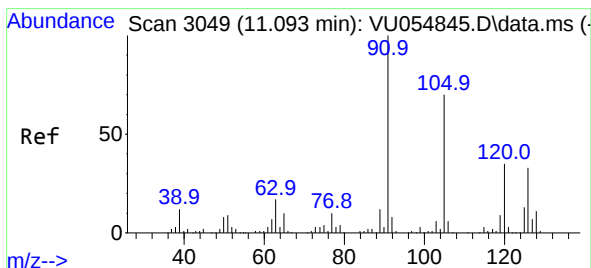
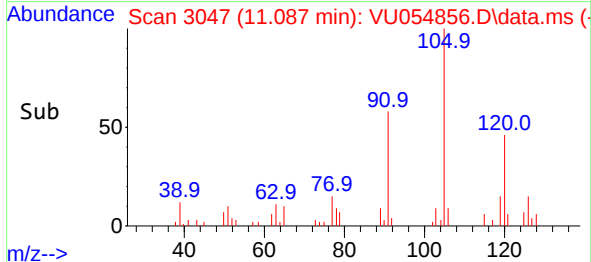
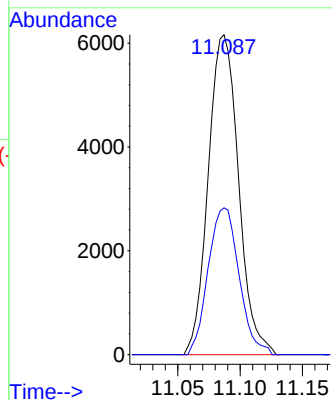
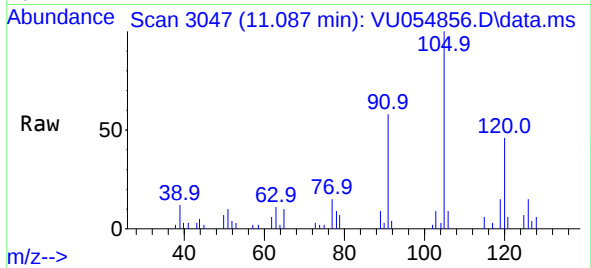
#75  
1,3,5-Trimethylbenzene  
Concen: 0.436 ug/l  
RT: 11.087 min Scan# 3046  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument : MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion:105 Resp: 1043  
Ion Ratio Lower Upper  
105 100  
120 46.8 39.0 58.4

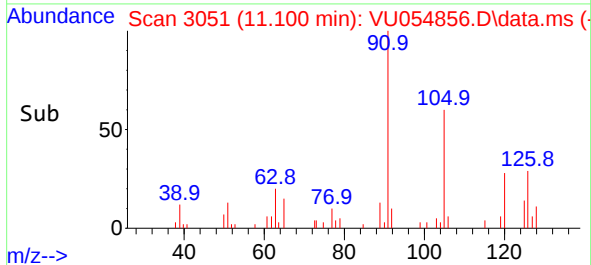
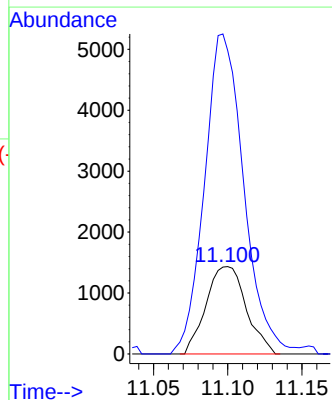
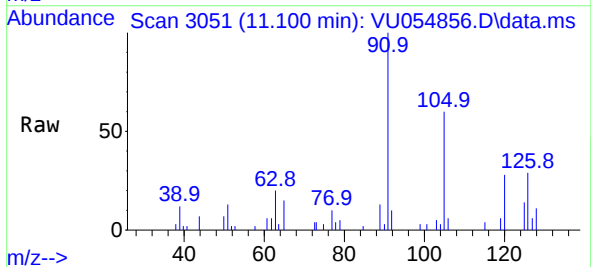
Manual Integrations  
APPROVED

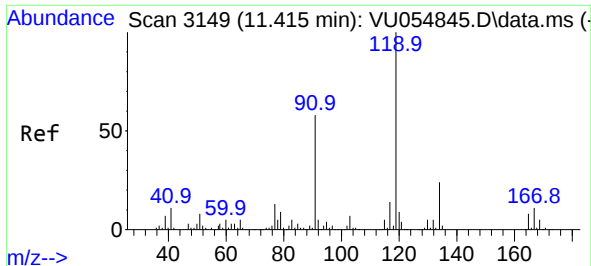
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#76  
4-Chlorotoluene  
Concen: 0.381 ug/l  
RT: 11.100 min Scan# 3051  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Tgt Ion:126 Resp: 2692  
Ion Ratio Lower Upper  
126 100  
91 359.4 0.0 623.4





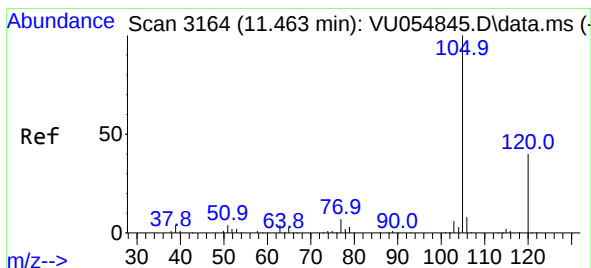
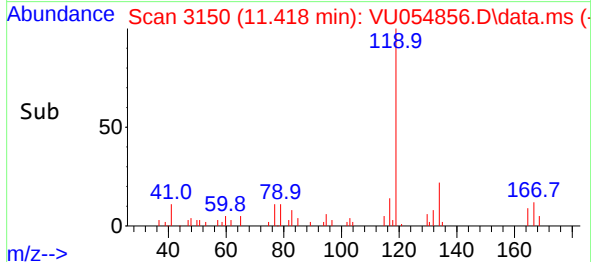
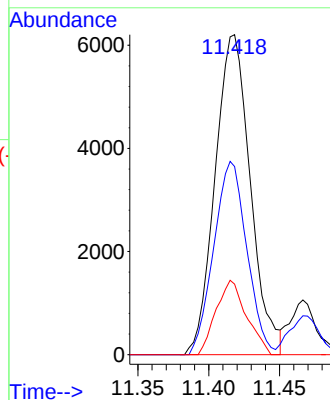
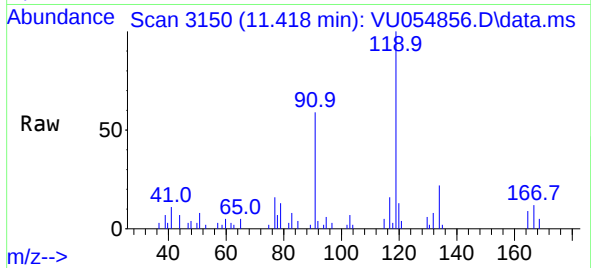
#77  
tert-Butylbenzene  
Concen: 0.437 ug/l  
RT: 11.418 min Scan# 3149  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion:119 Resp: 10752  
Ion Ratio Lower Upper  
119 100  
91 56.6 27.7 83.1  
134 20.1 18.6 27.8

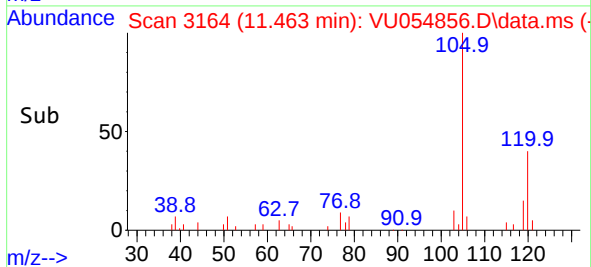
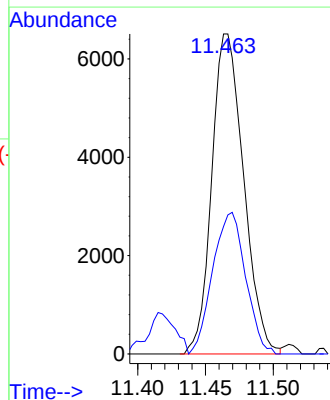
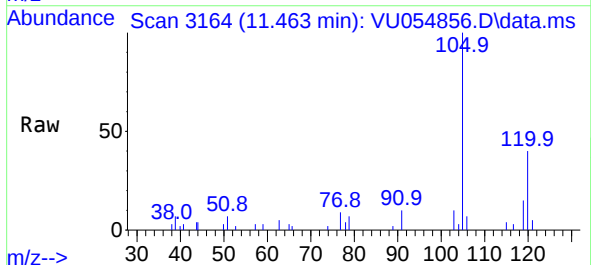
Manual Integrations  
APPROVED

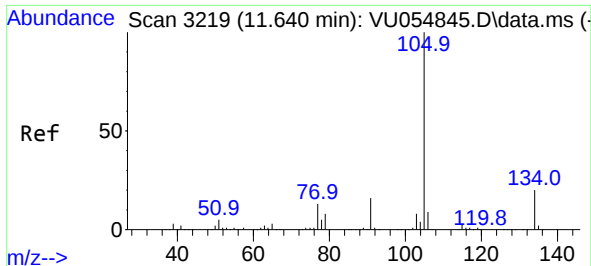
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#78  
1,2,4-Trimethylbenzene  
Concen: 0.442 ug/l  
RT: 11.463 min Scan# 3164  
Delta R.T. 0.000 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

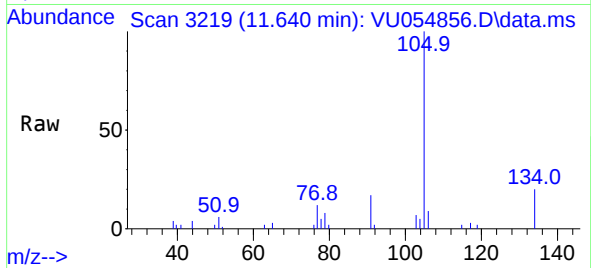
Tgt Ion:105 Resp: 10640  
Ion Ratio Lower Upper  
105 100  
120 45.7 22.4 67.3





#79  
 sec-Butylbenzene  
 Concen: 0.418 ug/l  
 RT: 11.640 min Scan# 3111  
 Delta R.T. 0.000 min  
 Lab File: VU054856.D  
 Acq: 24 Jul 2023 13:25

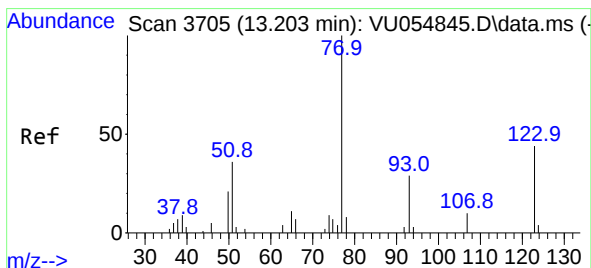
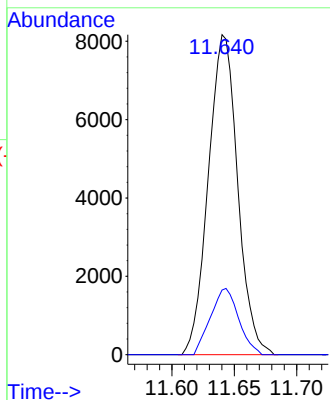
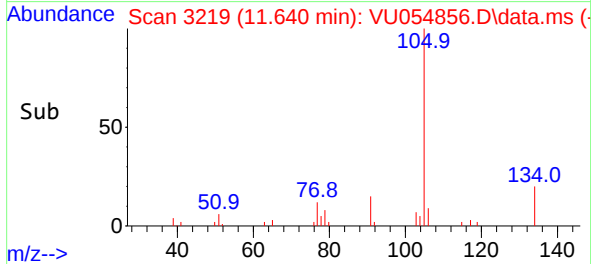
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 LOQ-WATER-02-QT3-2023



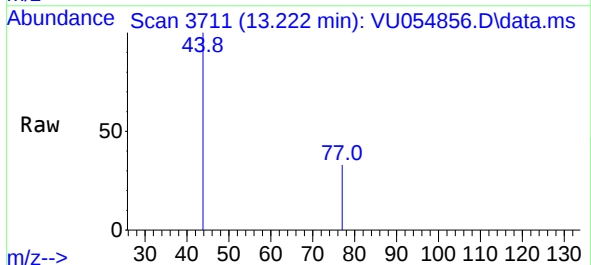
Tgt Ion:105 Resp: 13370  
 Ion Ratio Lower Upper  
 105 100  
 134 19.9 15.7 23.5

Manual Integrations  
 APPROVED

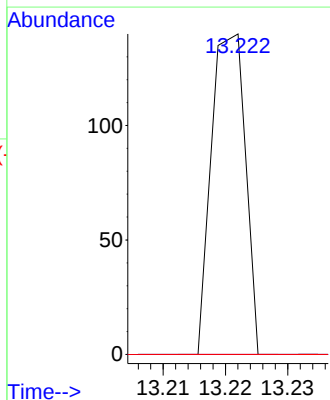
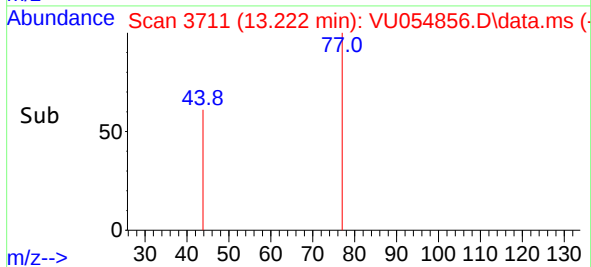
Reviewed By :John Carlone 07/25/2023  
 Supervised By :Mahesh Dadoda 07/31/2023

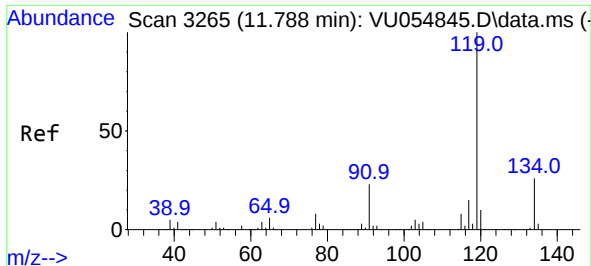


#80  
 Nitrobenzene  
 Concen: 0.330 ug/l  
 RT: 13.222 min Scan# 3711  
 Delta R.T. 0.019 min  
 Lab File: VU054856.D  
 Acq: 24 Jul 2023 13:25



Tgt Ion: 77 Resp: 53  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 20.2 71.8#  
 65 0.0 11.7 14.9#





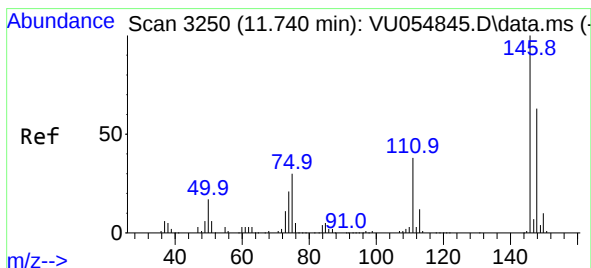
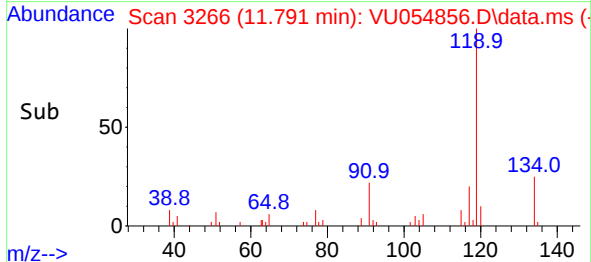
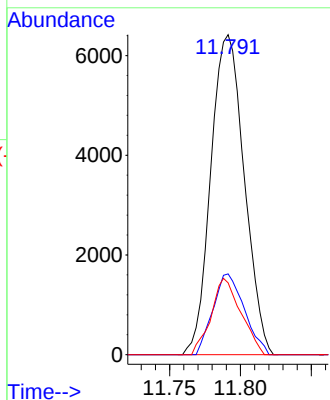
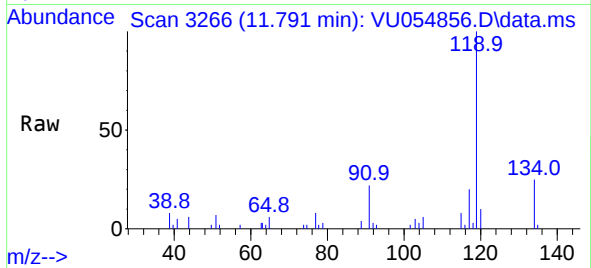
#81  
p-Isopropyltoluene  
Concen: 0.405 ug/l  
RT: 11.791 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023

Tgt Ion:119 Resp: 10534  
Ion Ratio Lower Upper  
119 100  
134 23.7 20.6 31.0  
91 21.2 18.2 27.4

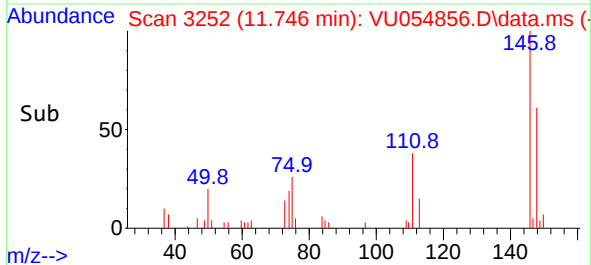
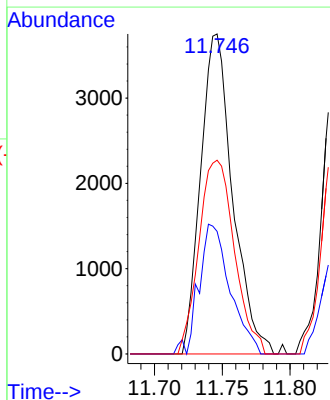
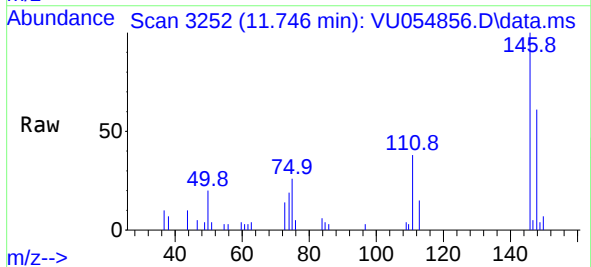
Manual Integrations  
APPROVED

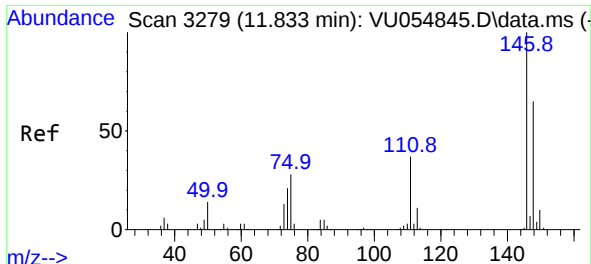
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#82  
1,3-Dichlorobenzene  
Concen: 0.454 ug/l  
RT: 11.746 min Scan# 3252  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

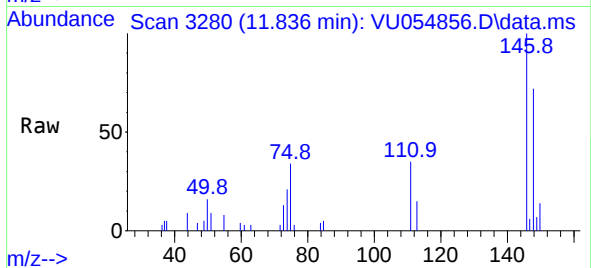
Tgt Ion:146 Resp: 6157  
Ion Ratio Lower Upper  
146 100  
111 39.4 30.5 45.7  
148 67.2 51.0 76.6





#83  
1,4-Dichlorobenzene  
Concen: 0.454 ug/l  
RT: 11.836 min Scan# 311  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

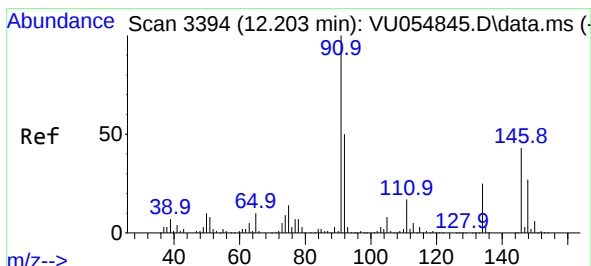
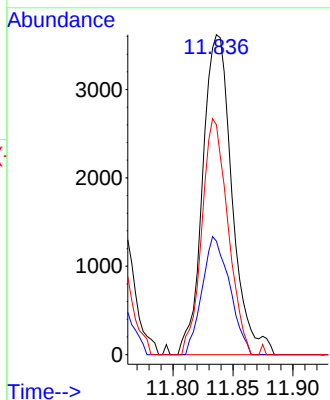
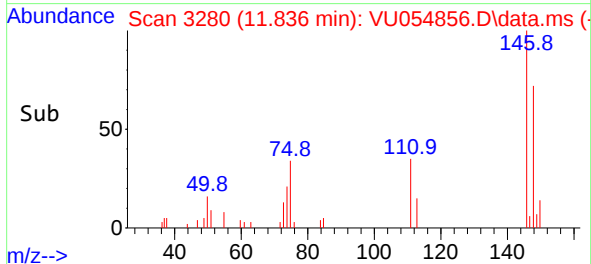
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



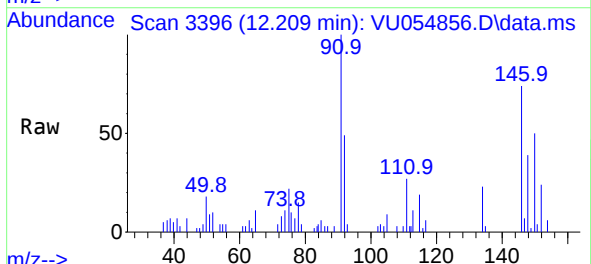
Tgt Ion:146 Resp: 6168  
Ion Ratio Lower Upper  
146 100  
111 34.5 29.5 44.3  
148 65.5 51.2 76.8

Manual Integrations  
APPROVED

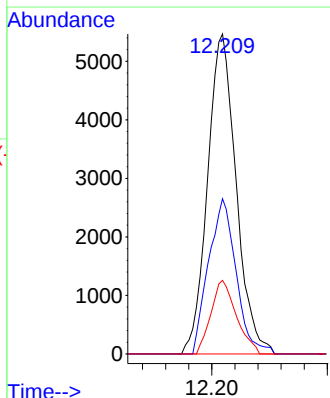
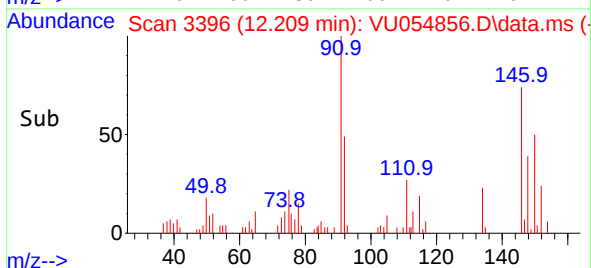
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

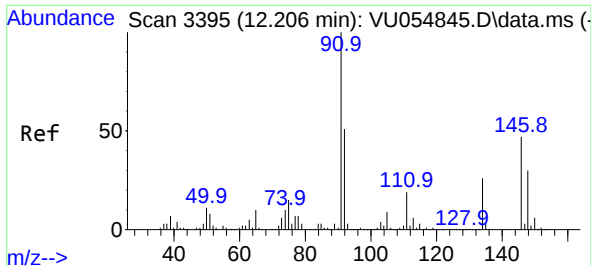


#84  
n-Butylbenzene  
Concen: 0.392 ug/l  
RT: 12.209 min Scan# 3396  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



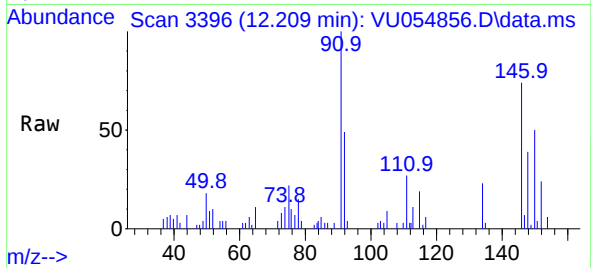
Tgt Ion: 91 Resp: 9396  
Ion Ratio Lower Upper  
91 100  
92 46.7 39.8 59.8  
134 20.4 20.2 30.4





#85  
1,2-Dichlorobenzene  
Concen: 0.493 ug/l  
RT: 12.209 min Scan# 3111  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

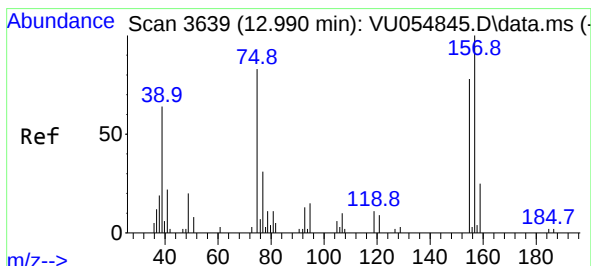
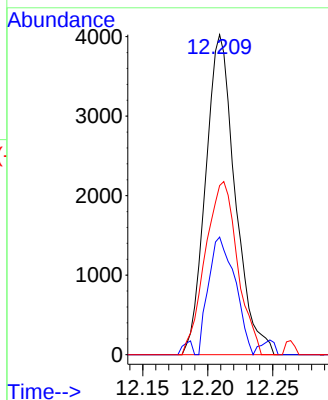
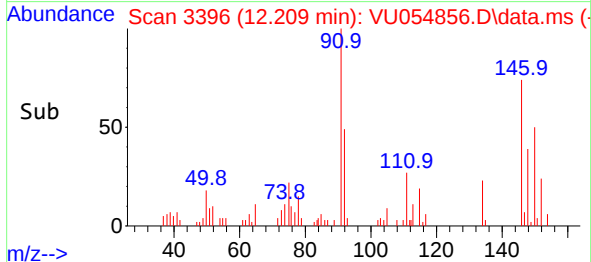
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



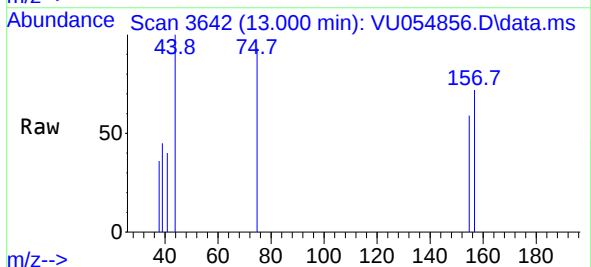
Tgt Ion:146 Resp: 6360  
Ion Ratio Lower Upper  
146 100  
111 33.0 19.8 59.4  
148 59.2 31.8 95.3

Manual Integrations  
APPROVED

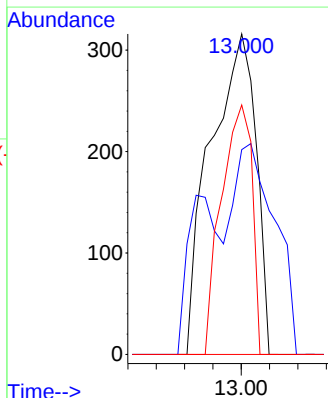
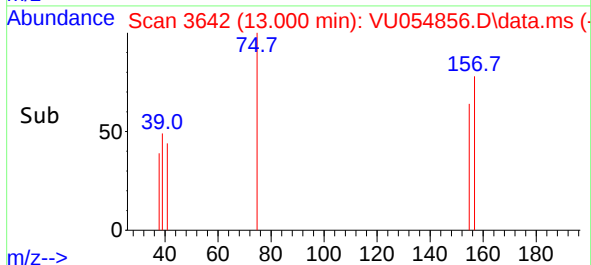
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

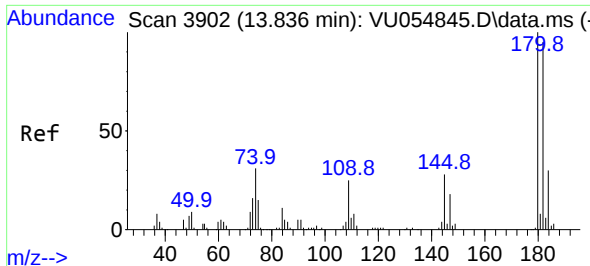


#86  
1,2-Dibromo-3-Chloropropane  
Concen: 0.483 ug/l  
RT: 13.000 min Scan# 3642  
Delta R.T. 0.010 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



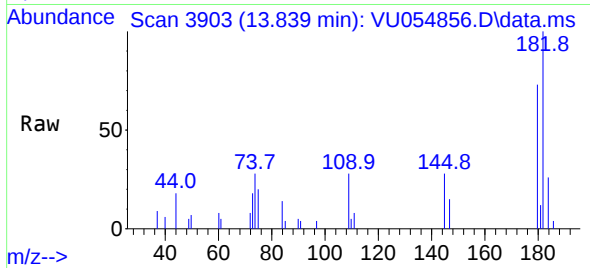
Tgt Ion: 75 Resp: 351  
Ion Ratio Lower Upper  
75 100  
155 60.7 74.8 112.2#  
157 52.7 97.4 146.0#





#87  
1,2,4-Trichlorobenzene  
Concen: 0.410 ug/l  
RT: 13.839 min Scan# 3902  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

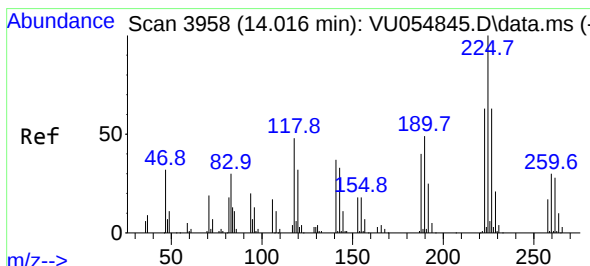
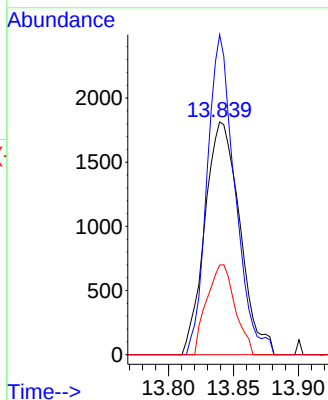
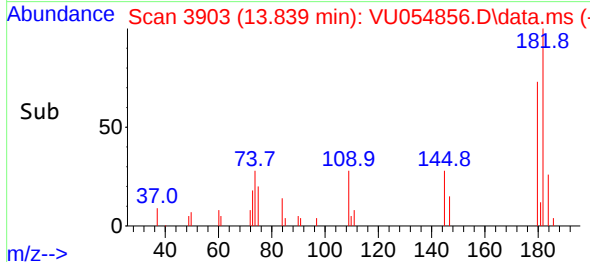
Instrument :  
MSVOA\_U  
ClientSampleId :  
LOQ-WATER-02-QT3-2023



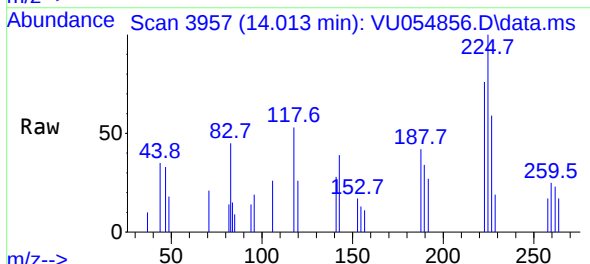
Tgt Ion:180 Resp: 3398  
Ion Ratio Lower Upper  
180 100  
182 109.1 77.0 115.6  
145 31.1 23.4 35.0

Manual Integrations  
APPROVED

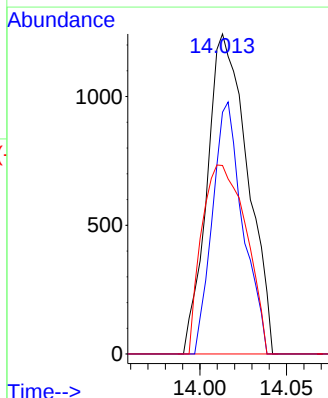
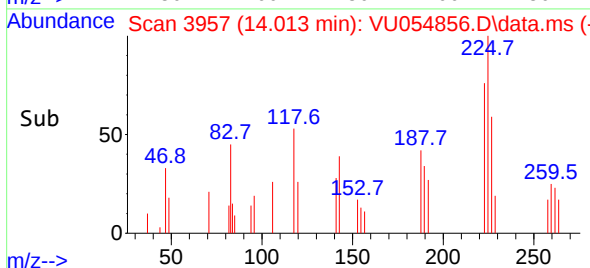
Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023

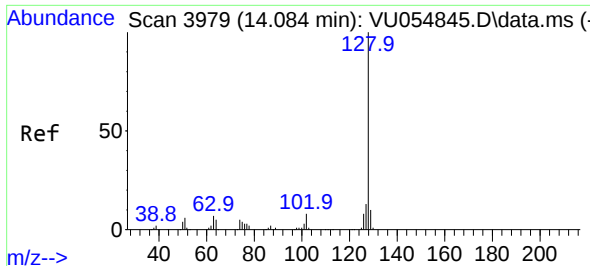


#88  
Hexachlorobutadiene  
Concen: 0.457 ug/l  
RT: 14.013 min Scan# 3957  
Delta R.T. -0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



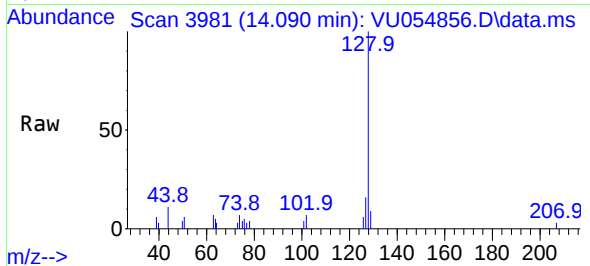
Tgt Ion:225 Resp: 2022  
Ion Ratio Lower Upper  
225 100  
223 59.2 50.6 76.0  
227 64.5 50.7 76.1





#89  
Naphthalene  
Concen: 0.488 ug/l  
RT: 14.090 min Scan# 3981  
Delta R.T. 0.006 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25

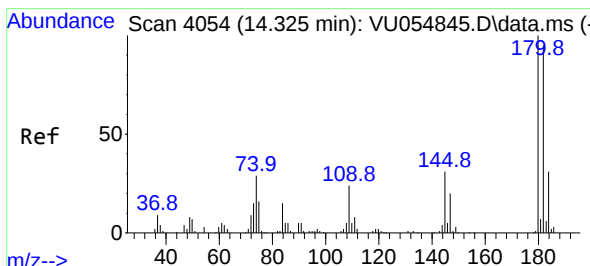
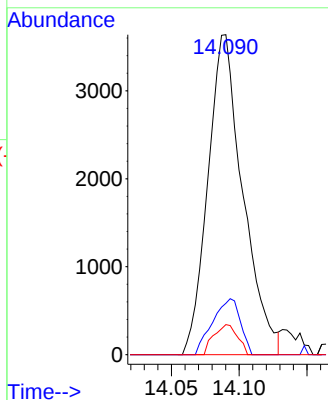
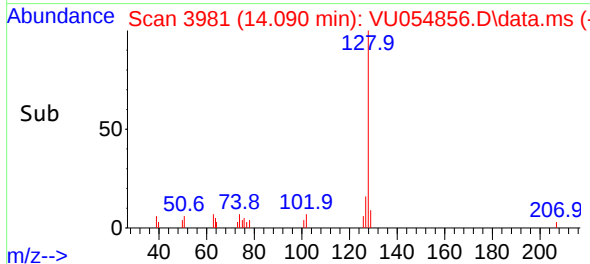
Instrument : MSVOA\_U  
ClientSampleId : LOQ-WATER-02-QT3-2023



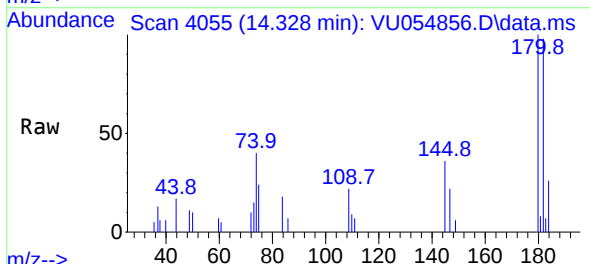
Tgt Ion:128 Resp: 6529  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.6 15.8  
129 6.4 8.7 13.1

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/25/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#90  
1,2,3-Trichlorobenzene  
Concen: 0.484 ug/l  
RT: 14.328 min Scan# 4055  
Delta R.T. 0.003 min  
Lab File: VU054856.D  
Acq: 24 Jul 2023 13:25



Tgt Ion:180 Resp: 3465  
Ion Ratio Lower Upper  
180 100  
182 92.1 76.0 114.0  
145 32.2 24.3 36.5

