

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU072723\  
 Data File : VU054898.D  
 Acq On : 27 Jul 2023 16:53  
 Operator : MD/SY  
 Sample : RL-CHECK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/28/2023  
 Supervised By : Mahesh Dadoda 07/31/2023

Quant Time: Jul 28 06:40:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072523DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Jul 28 06:40:03 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units    | Dev(Min) |
|------------------------------|--------|------|----------|-------|----------|----------|
| -----                        |        |      |          |       |          |          |
| Internal Standards           |        |      |          |       |          |          |
| 1) Fluorobenzene             | 6.116  | 96   | 26667    | 1.000 | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |          |          |
| 57) 4-Bromofluorobenzene     | 10.630 | 95   | 8275     | 1.024 | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 102.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.193 | 152  | 8989     | 0.984 | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 98.000%  |          |
| Target Compounds             |        |      |          |       |          |          |
|                              |        |      |          |       | Qvalue   |          |
| 2) Dichlorodifluoromethane   | 1.383  | 85   | 1786     | 0.352 | ug/l     | 98       |
| 3) Chloromethane             | 1.515  | 50   | 2761     | 0.484 | ug/l     | 98       |
| 4) Vinyl Chloride            | 1.599  | 62   | 3808     | 0.500 | ug/l     | 90       |
| 5) Bromomethane              | 1.849  | 94   | 3211     | 0.531 | ug/l     | 83       |
| 6) Chloroethane              | 1.930  | 64   | 2955     | 0.375 | ug/l     | 96       |
| 7) Trichlorofluoromethane    | 2.136  | 101  | 7037     | 0.393 | ug/l     | 98       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.573  | 101  | 2561     | 0.442 | ug/l     | 95       |
| 9) 1,1-Dichloroethene        | 2.576  | 96   | 2302     | 0.500 | ug/l     | 96       |
| 10) Iodomethane              | 2.721  | 142  | 2422     | 0.337 | ug/l     | 95       |
| 11) Allyl Chloride           | 2.923  | 41   | 2447     | 0.445 | ug/l     | 95       |
| 12) Acrylonitrile            | 3.335  | 53   | 1025m    | 0.887 | ug/l     |          |
| 13) Acetone                  | 2.653  | 43   | 2763     | 2.288 | ug/l #   | 86       |
| 14) Carbon Disulfide         | 2.788  | 76   | 3477     | 0.436 | ug/l #   | 90       |
| 15) Methylene Chloride       | 3.036  | 84   | 5358     | 0.834 | ug/l     | 90       |
| 16) trans-1,2-Dichloroethene | 3.351  | 96   | 2513     | 0.501 | ug/l     | 89       |
| 17) 1,1-Dichloroethane       | 3.865  | 63   | 4936     | 0.440 | ug/l     | 97       |
| 18) 2-Butanone               | 4.759  | 43   | 3910m    | 2.567 | ug/l     |          |
| 19) Cyclohexane              | 5.386  | 56   | 2751     | 0.436 | ug/l     | 91       |
| 20) Methylcyclohexane        | 6.759  | 83   | 3406     | 0.404 | ug/l #   | 78       |
| 21) 2,2-Dichloropropane      | 4.663  | 77   | 4174     | 0.402 | ug/l     | 95       |
| 22) cis-1,2-Dichloroethene   | 4.672  | 96   | 2902     | 0.436 | ug/l     | 88       |
| 23) Diethyl Ether            | 2.374  | 59   | 3418     | 0.503 | ug/l     | 94       |
| 24) tert-Butyl Alcohol       | 3.216  | 59   | 2594m    | 4.105 | ug/l     |          |
| 25) Methyl tert-Butyl Ether  | 3.367  | 73   | 6800     | 0.477 | ug/l     | 95       |
| 26) Bromochloromethane       | 4.971  | 128  | 1327     | 0.486 | ug/l     | 89       |
| 27) Chloroform               | 5.087  | 83   | 5310     | 0.441 | ug/l     | 96       |
| 28) 1,1,1-Trichloroethane    | 5.316  | 97   | 4610     | 0.443 | ug/l     | 95       |
| 29) 1,1-Dichloropropene      | 5.528  | 75   | 3556     | 0.464 | ug/l     | 89       |
| 30) Carbon Tetrachloride     | 5.525  | 117  | 3282     | 0.378 | ug/l     | 96       |
| 31) Isopropyl Ether          | 3.991  | 45   | 7192     | 0.435 | ug/l     | 89       |
| 32) Ethyl-t-butyl ether      | 4.502  | 59   | 7478m    | 0.439 | ug/l     |          |
| 33) Tert-Amyl methyl ether   | 5.939  | 73   | 8107     | 0.503 | ug/l #   | 94       |
| 34) Propionitrile            | 4.824  | 54   | 836m     | 1.990 | ug/l     |          |
| 35) Benzene                  | 5.775  | 78   | 10243    | 0.426 | ug/l     | 94       |
| 36) 1,2-Dichloroethane       | 5.791  | 62   | 3119     | 0.456 | ug/l #   | 83       |
| 37) Trichloroethene          | 6.547  | 130  | 3024     | 0.468 | ug/l     | 99       |
| 38) 1,2-Dichloropropane      | 6.795  | 63   | 2952     | 0.435 | ug/l #   | 87       |
| 39) Methacrylonitrile        | 4.997  | 41   | 901m     | 0.535 | ug/l     |          |
| 40) Methyl acrylate          | 4.875  | 55   | 1369m    | 0.511 | ug/l     |          |
| 41) Tetrahydrofuran          | 5.084  | 42   | 969m     | 1.006 | ug/l     |          |
| 42) 1-Chlorobutane           | 5.457  | 56   | 4393     | 0.437 | ug/l     | 97       |
| 43) Dibromomethane           | 6.920  | 93   | 1521     | 0.477 | ug/l     | 94       |
| 44) Bromodichloromethane     | 7.103  | 83   | 4011     | 0.451 | ug/l #   | 94       |

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 Sample : RL-CHECK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK

Quant Time: Jul 28 06:40:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072523DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Jul 28 06:40:03 2023  
 Response via : Initial Calibration

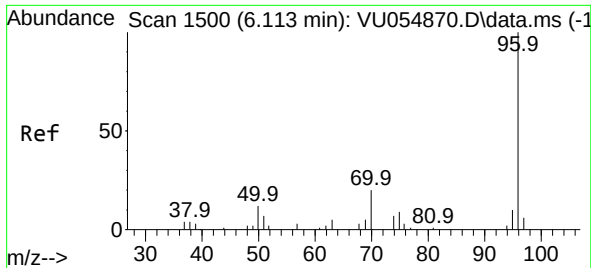
Manual Integrations  
 APPROVED

Reviewed By :John Carlone 07/28/2023  
 Supervised By :Mahesh Dadoda 07/31/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.791  | 43   | 8514     | 2.288 | ug/l   | 95       |
| 46) t-1,4-Dichloro-2-butene   | 10.827 | 75   | 1412m    | 0.943 | ug/l   |          |
| 47) Methyl methacrylate       | 6.971  | 69   | 2713     | 0.931 | ug/l # | 87       |
| 48) Ethyl methacrylate        | 8.338  | 69   | 2171     | 0.368 | ug/l   | 80       |
| 49) Toluene                   | 7.968  | 92   | 6621     | 0.433 | ug/l   | 97       |
| 50) t-1,3-Dichloropropene     | 8.213  | 75   | 3010     | 0.382 | ug/l   | 100      |
| 51) cis-1,3-Dichloropropene   | 7.605  | 75   | 4384     | 0.452 | ug/l   | 95       |
| 52) 1,1,2-Trichloroethane     | 8.402  | 97   | 2307     | 0.456 | ug/l # | 62       |
| 53) 1,3-Dichloropropane       | 8.579  | 76   | 3739     | 0.457 | ug/l   | 99       |
| 54) 2-Hexanone                | 8.688  | 43   | 5185     | 1.961 | ug/l   | 96       |
| 55) Dibromochloromethane      | 8.807  | 129  | 2617     | 0.452 | ug/l   | 95       |
| 56) 1,2-Dibromoethane         | 8.923  | 107  | 2035     | 0.475 | ug/l   | 100      |
| 58) Tetrachloroethene         | 8.550  | 164  | 2478     | 0.439 | ug/l   | 96       |
| 59) Chlorobenzene             | 9.447  | 112  | 8393     | 0.452 | ug/l   | 90       |
| 60) 1,1,1,2-Tetrachloroethane | 9.528  | 131  | 1866m    | 0.285 | ug/l   |          |
| 61) Pentachloroethane         | 11.431 | 117  | 2145     | 0.419 | ug/l   | 88       |
| 62) Hexachloroethane          | 12.476 | 117  | 1912     | 0.363 | ug/l   | 89       |
| 63) Ethyl Benzene             | 9.573  | 91   | 13464    | 0.432 | ug/l   | 90       |
| 64) m/p-Xylenes               | 9.695  | 106  | 10891    | 0.934 | ug/l   | 86       |
| 65) o-Xylene                  | 10.100 | 106  | 5067     | 0.423 | ug/l   | 99       |
| 66) Styrene                   | 10.119 | 104  | 7973     | 0.416 | ug/l   | 98       |
| 67) Bromoform                 | 10.293 | 173  | 1357     | 0.452 | ug/l # | 63       |
| 69) Isopropylbenzene          | 10.483 | 105  | 13796    | 0.429 | ug/l   | 98       |
| 70) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 2763     | 0.442 | ug/l # | 96       |
| 71) 1,2,3-Trichloropropane    | 10.827 | 75   | 2307m    | 0.518 | ug/l   |          |
| 72) Bromobenzene              | 10.782 | 156  | 3449     | 0.482 | ug/l   | 97       |
| 73) n-propylbenzene           | 10.904 | 120  | 3573     | 0.415 | ug/l   | 100      |
| 74) 2-Chlorotoluene           | 10.984 | 126  | 3408     | 0.458 | ug/l   | 98       |
| 75) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 11633    | 0.447 | ug/l   | 96       |
| 76) 4-Chlorotoluene           | 11.103 | 126  | 3627     | 0.469 | ug/l   | 92       |
| 77) tert-Butylbenzene         | 11.418 | 119  | 11502    | 0.425 | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene    | 11.466 | 105  | 10598    | 0.398 | ug/l   | 100      |
| 79) sec-Butylbenzene          | 11.643 | 105  | 13933    | 0.396 | ug/l   | 97       |
| 80) Nitrobenzene              | 13.232 | 77   | 265m     | 1.612 | ug/l   |          |
| 81) p-Isopropyltoluene        | 11.791 | 119  | 10428    | 0.375 | ug/l   | 96       |
| 82) 1,3-Dichlorobenzene       | 11.746 | 146  | 7527     | 0.494 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene       | 11.843 | 146  | 7762     | 0.511 | ug/l   | 94       |
| 84) n-Butylbenzene            | 12.209 | 91   | 9531     | 0.382 | ug/l   | 96       |
| 85) 1,2-Dichlorobenzene       | 12.209 | 146  | 6621     | 0.453 | ug/l   | 95       |
| 87) 1,2,4-Trichlorobenzene    | 13.846 | 180  | 3772     | 0.405 | ug/l   | 97       |
| 88) Hexachlorobutadiene       | 14.019 | 225  | 2171     | 0.437 | ug/l   | 89       |
| 89) Naphthalene               | 14.090 | 128  | 6825     | 0.473 | ug/l # | 97       |
| 90) 1,2,3-Trichlorobenzene    | 14.331 | 180  | 4763     | 0.576 | ug/l   | 95       |

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





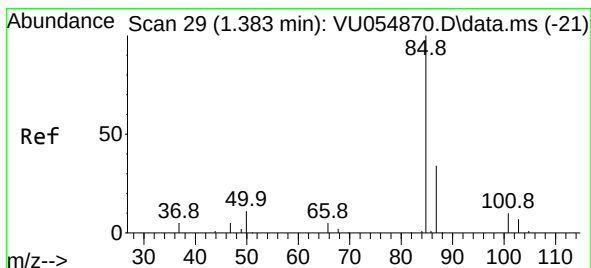
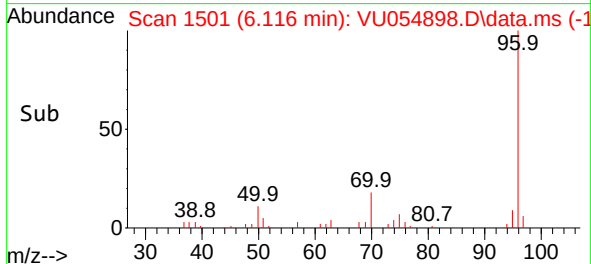
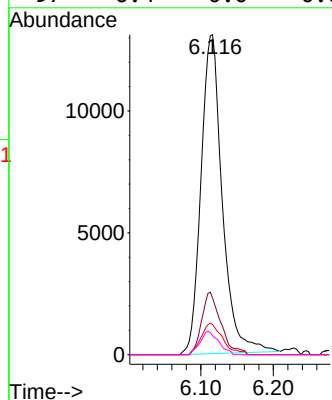
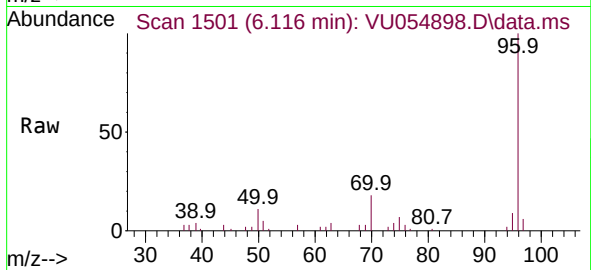
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Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.116 min Scan# 1501  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 96 Resp: 2666  
Ion Ratio Lower Upper  
96 100  
70 17.5 14.0 21.0  
95 10.0 8.7 13.1  
97 6.4 0.0 0.0#

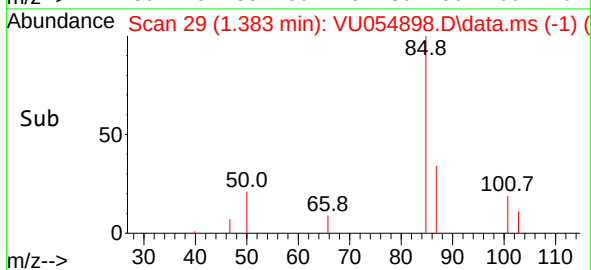
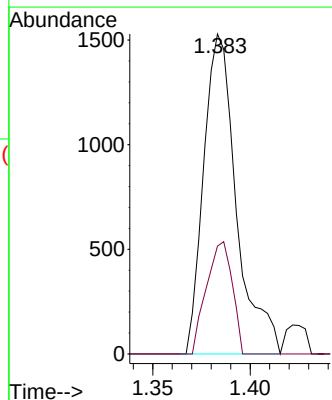
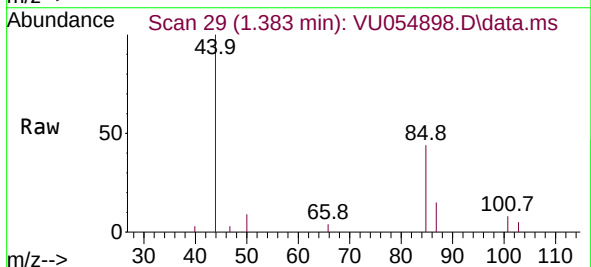
Manual Integrations  
APPROVED

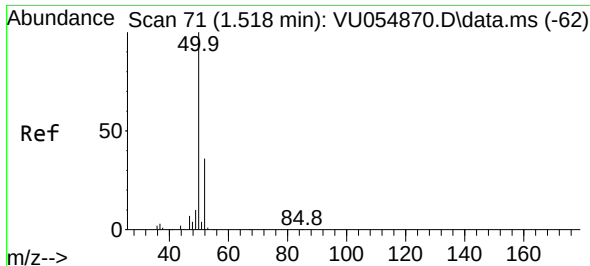
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#2  
Dichlorodifluoromethane  
Concen: 0.352 ug/l  
RT: 1.383 min Scan# 29  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

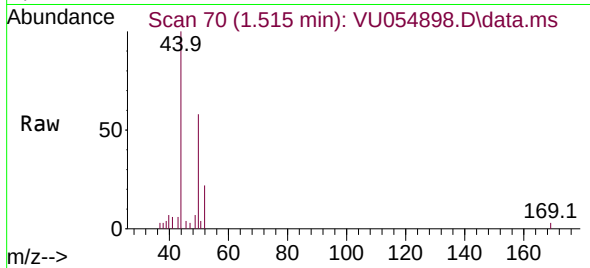
Tgt Ion: 85 Resp: 1786  
Ion Ratio Lower Upper  
85 100  
87 33.7 16.2 48.6





#3  
Chloromethane  
Concen: 0.484 ug/l  
RT: 1.515 min Scan# 70  
Delta R.T. -0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

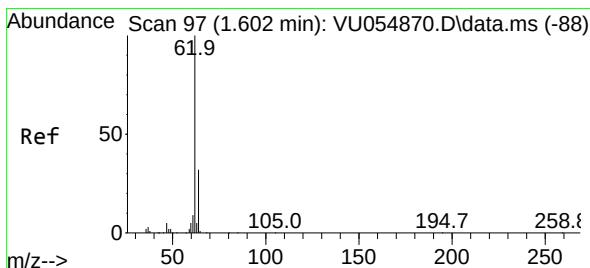
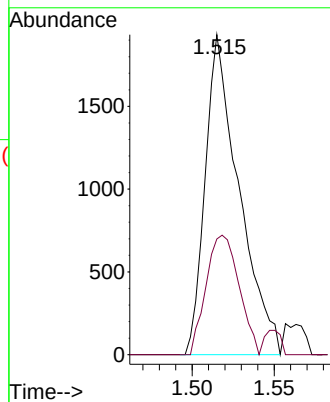
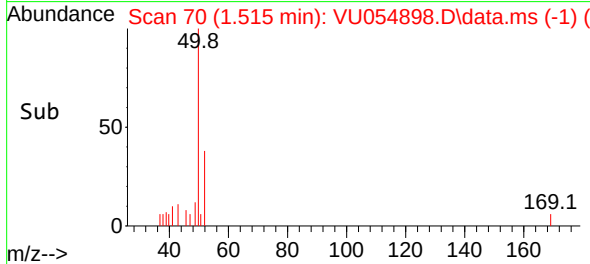
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



Tgt Ion: 50 Resp: 276  
Ion Ratio Lower Upper  
50 100  
52 36.2 28.2 42.2

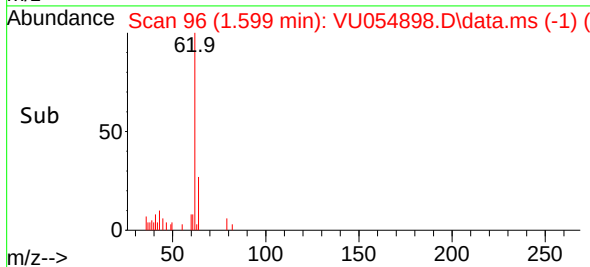
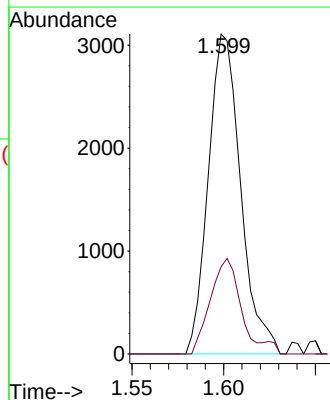
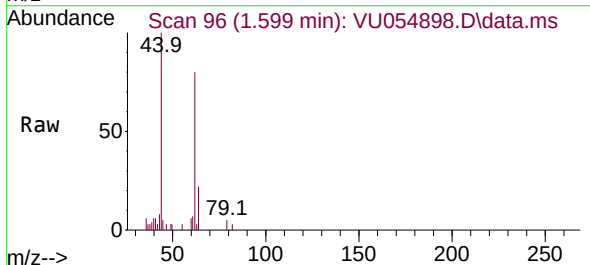
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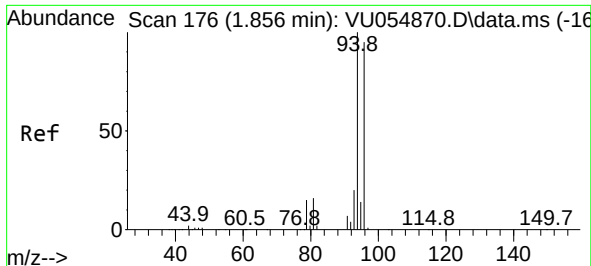
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#4  
Vinyl Chloride  
Concen: 0.500 ug/l  
RT: 1.599 min Scan# 96  
Delta R.T. -0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

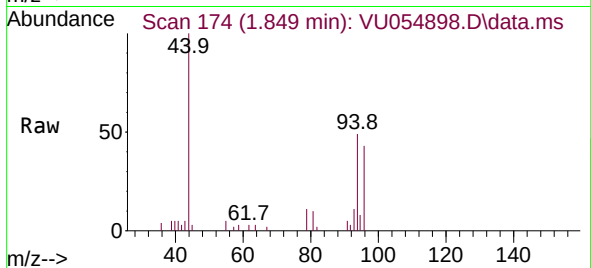
Tgt Ion: 62 Resp: 3808  
Ion Ratio Lower Upper  
62 100  
64 27.3 26.4 39.6





#5  
Bromomethane  
Concen: 0.531 ug/l  
RT: 1.849 min Scan# 176  
Delta R.T. -0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

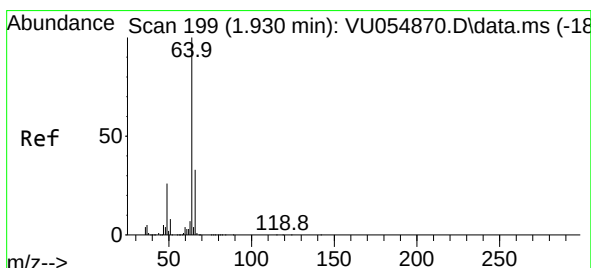
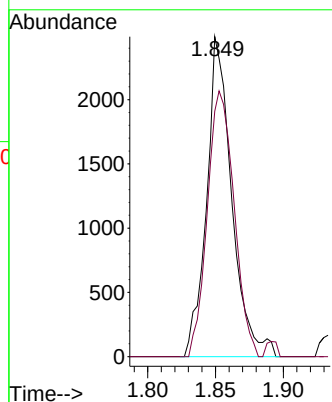
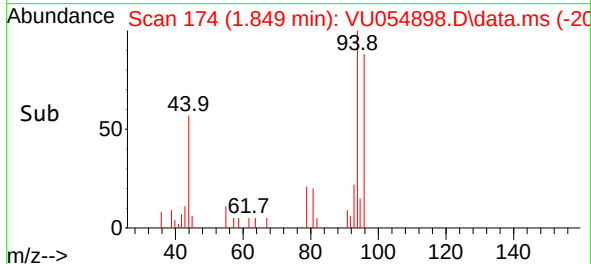
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



Tgt Ion: 94 Resp: 321  
Ion Ratio Lower Upper  
94 100  
96 76.7 74.6 111.8

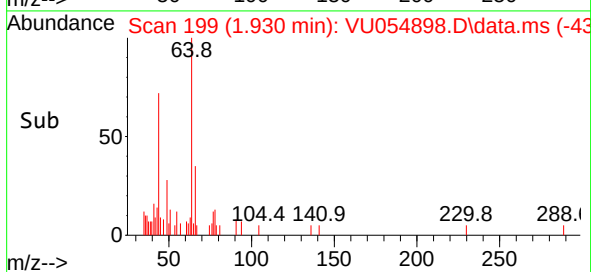
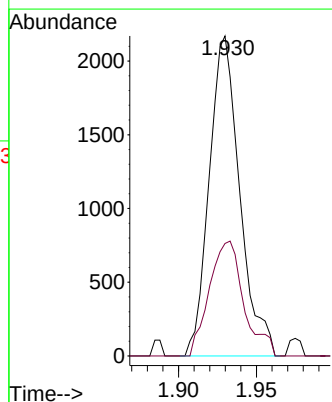
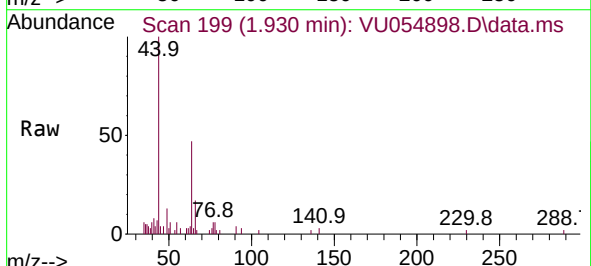
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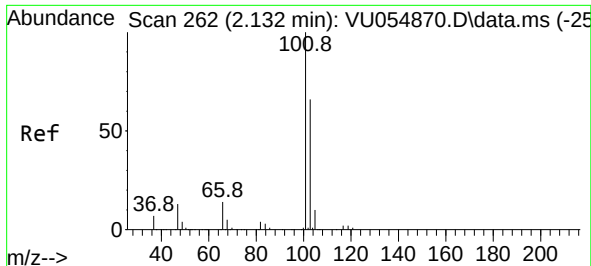
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#6  
Chloroethane  
Concen: 0.375 ug/l  
RT: 1.930 min Scan# 199  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion: 64 Resp: 2955  
Ion Ratio Lower Upper  
64 100  
66 35.2 26.2 39.4





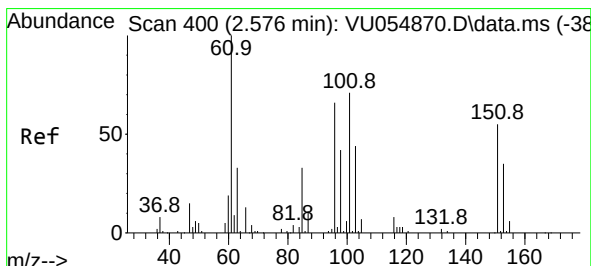
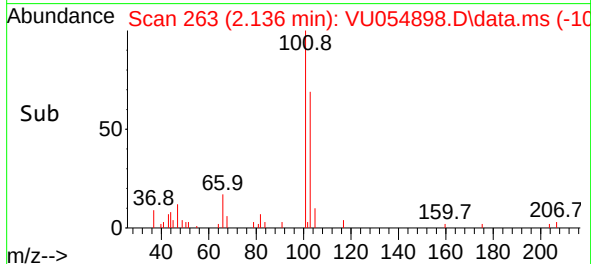
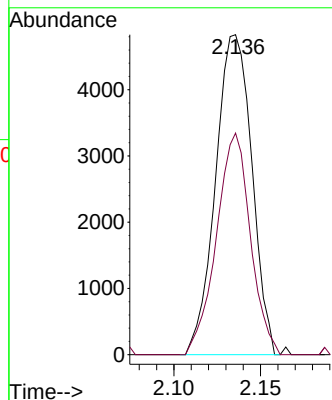
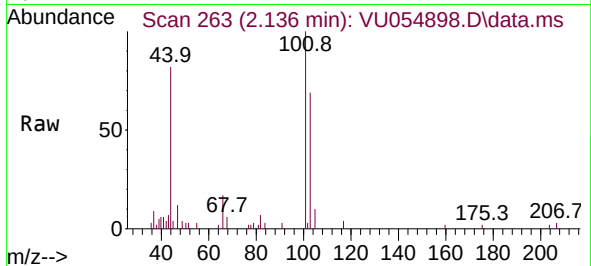
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Trichlorofluoromethane  
Concen: 0.393 ug/l  
RT: 2.136 min Scan# 203  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion:101 Resp: 703  
Ion Ratio Lower Upper  
101 100  
103 67.4 52.9 79.3

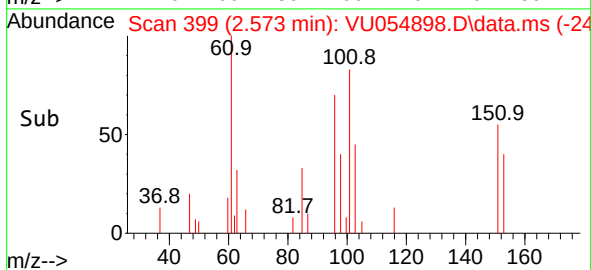
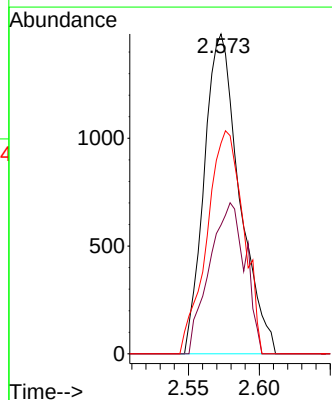
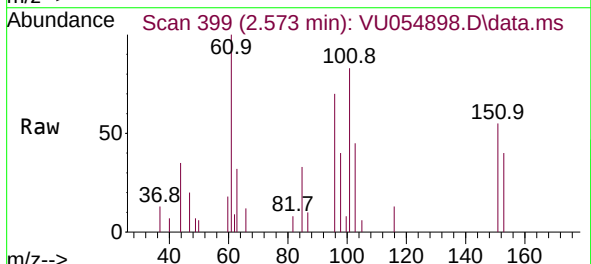
Manual Integrations  
APPROVED

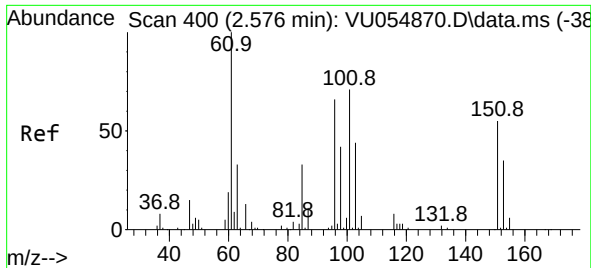
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#8  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.442 ug/l  
RT: 2.573 min Scan# 399  
Delta R.T. -0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion:101 Resp: 2561  
Ion Ratio Lower Upper  
101 100  
85 48.1 34.8 52.2  
151 72.4 60.5 90.7





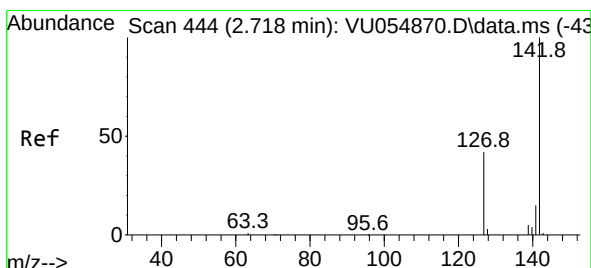
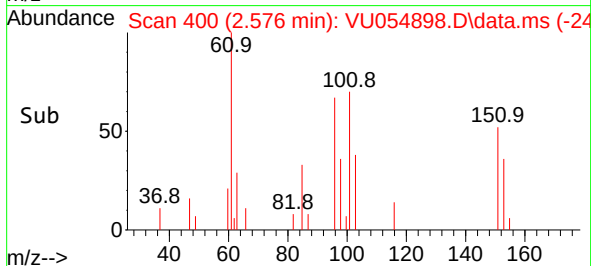
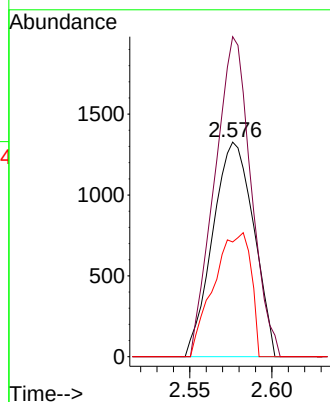
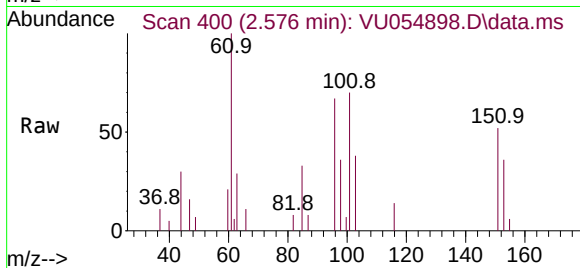
#9  
1,1-Dichloroethene  
Concen: 0.500 ug/l  
RT: 2.576 min Scan# 400  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 96 Resp: 2302  
Ion Ratio Lower Upper  
96 100  
61 149.1 0.0 440.1  
98 53.5 0.0 121.8

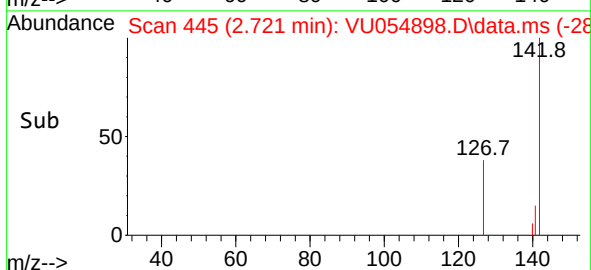
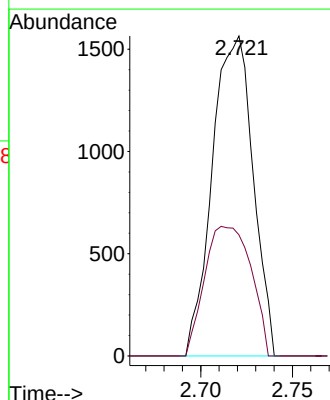
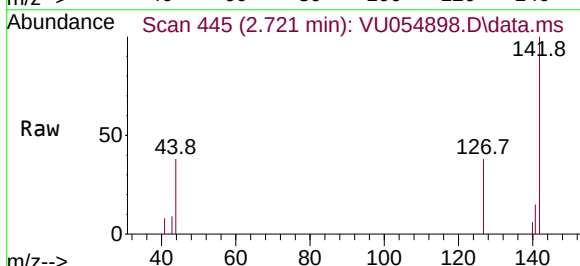
Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023

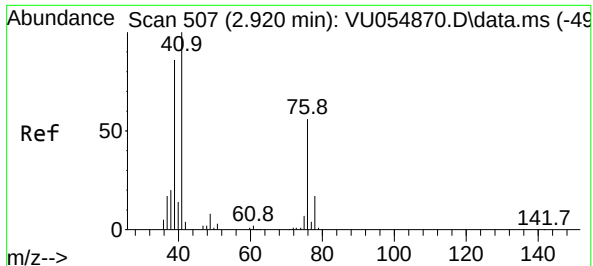


#10  
Iodomethane  
Concen: 0.337 ug/l  
RT: 2.721 min Scan# 445  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion:142 Resp: 2422  
Ion Ratio Lower Upper  
142 100  
127 46.1 34.3 51.5

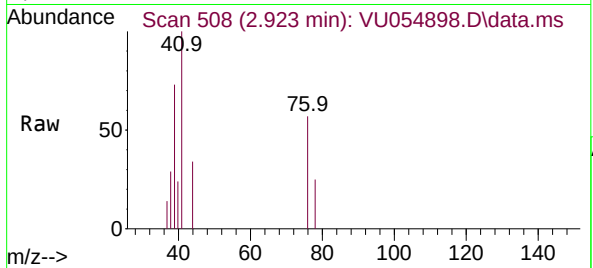






#11  
 Allyl Chloride  
 Concen: 0.445 ug/l  
 RT: 2.923 min Scan# 507  
 Delta R.T. 0.003 min  
 Lab File: VU054898.D  
 Acq: 27 Jul 2023 16:53

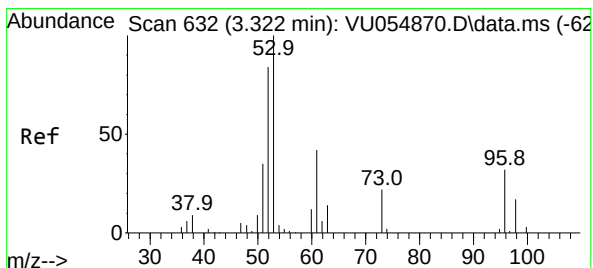
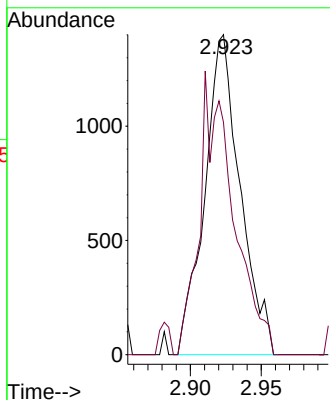
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK



Tgt Ion: 41 Resp: 244  
 Ion Ratio Lower Upper  
 41 100  
 39 83.4 70.2 105.2

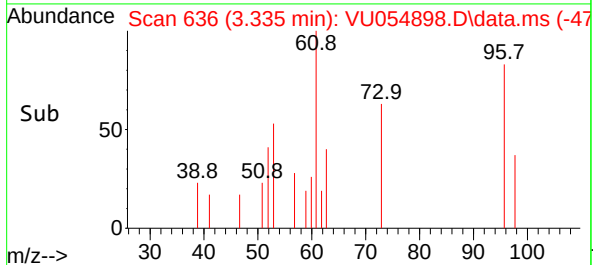
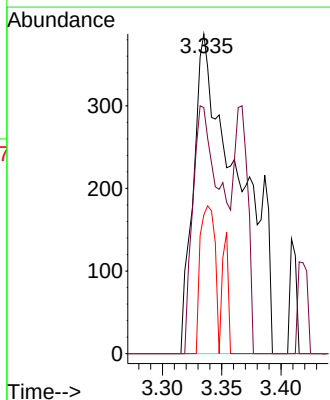
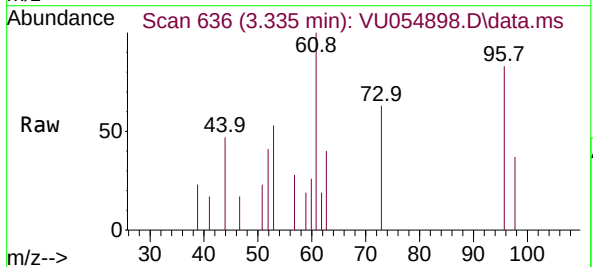
Manual Integrations  
 APPROVED

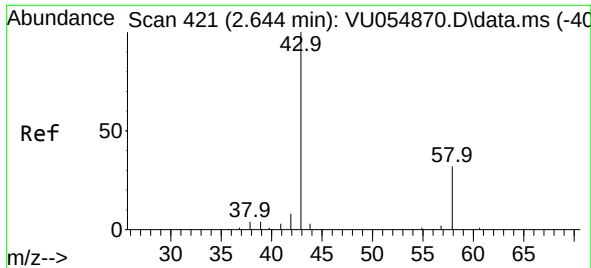
Reviewed By :John Carlone 07/28/2023  
 Supervised By :Mahesh Dadoda 07/31/2023



#12  
 Acrylonitrile  
 Concen: 0.887 ug/l m  
 RT: 3.335 min Scan# 636  
 Delta R.T. 0.013 min  
 Lab File: VU054898.D  
 Acq: 27 Jul 2023 16:53

Tgt Ion: 53 Resp: 1025  
 Ion Ratio Lower Upper  
 53 100  
 52 48.7 64.2 96.4#  
 51 15.0 33.6 50.4#





#13

Acetone

Concen: 2.288 ug/l

RT: 2.653 min Scan# 41

Delta R.T. 0.010 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

Tgt Ion: 43 Resp: 276

Ion Ratio Lower Upper

43 100

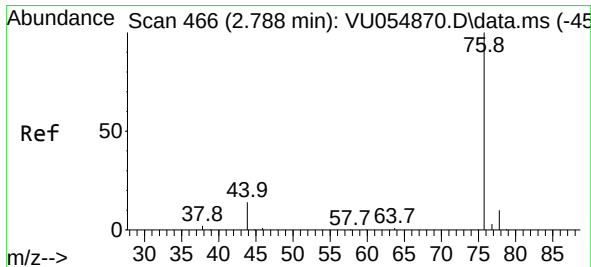
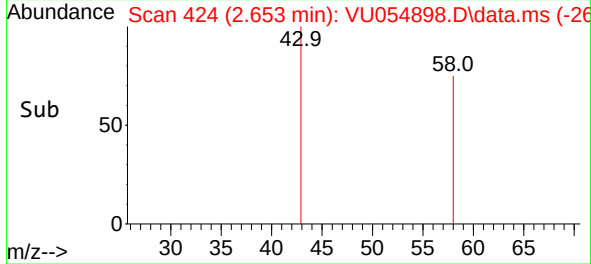
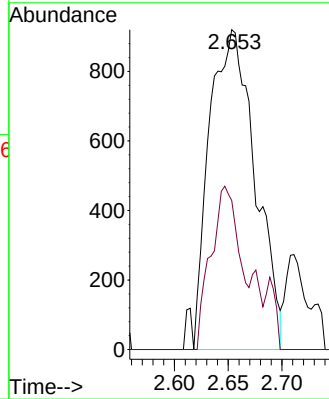
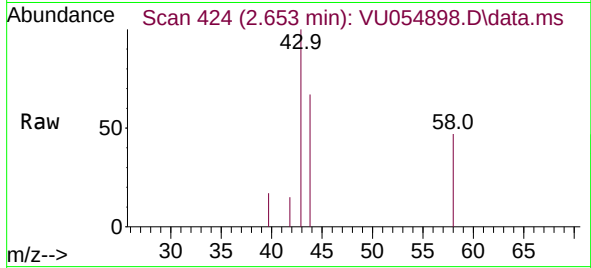
58 46.6 30.7 46.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#14

Carbon Disulfide

Concen: 0.436 ug/l

RT: 2.788 min Scan# 466

Delta R.T. -0.000 min

Lab File: VU054898.D

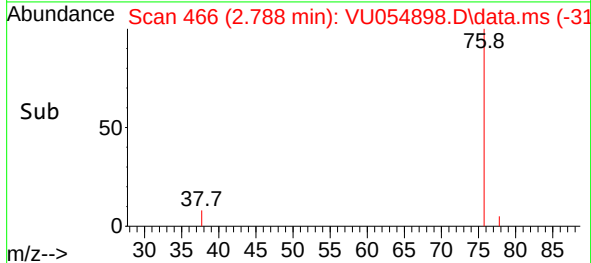
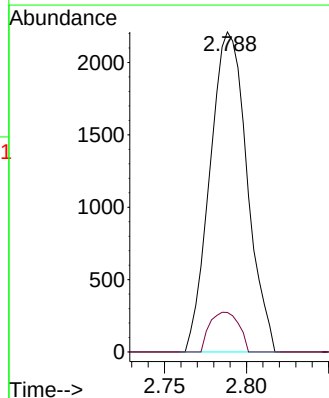
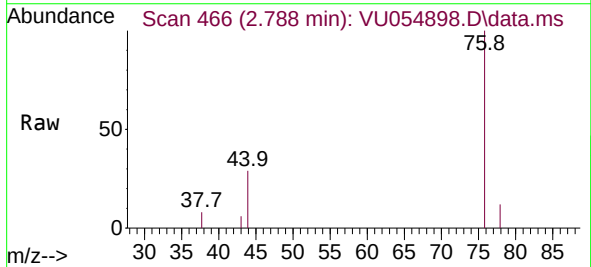
Acq: 27 Jul 2023 16:53

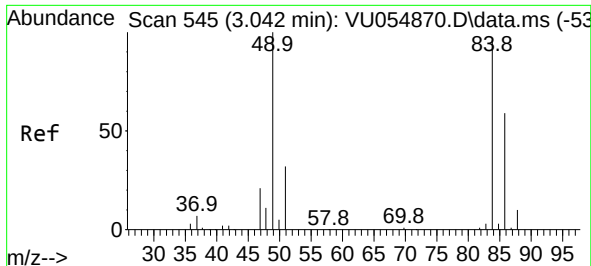
Tgt Ion: 76 Resp: 3477

Ion Ratio Lower Upper

76 100

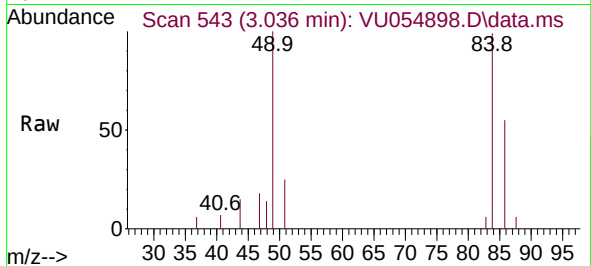
78 12.3 7.1 10.7





#15  
Methylene Chloride  
Concen: 0.834 ug/l  
RT: 3.036 min Scan# 545  
Delta R.T. -0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

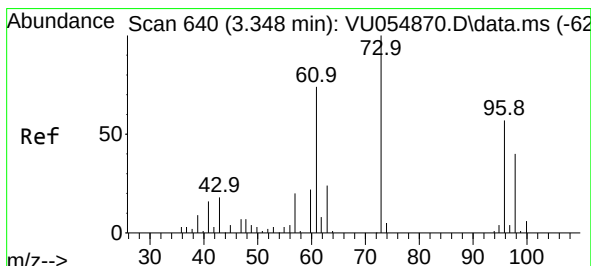
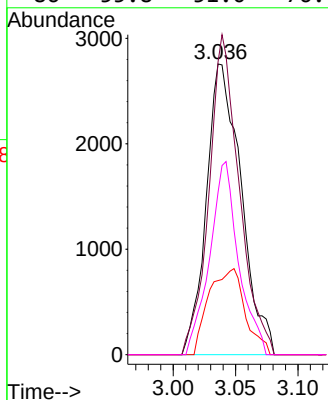
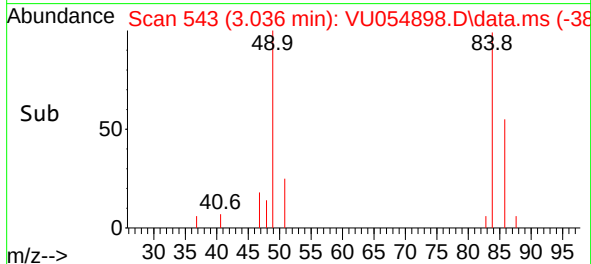
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



Tgt Ion: 84 Resp: 5358  
Ion Ratio Lower Upper  
84 100  
49 100.7 87.8 131.6  
51 25.5 0.0 68.2  
86 55.8 51.0 76.4

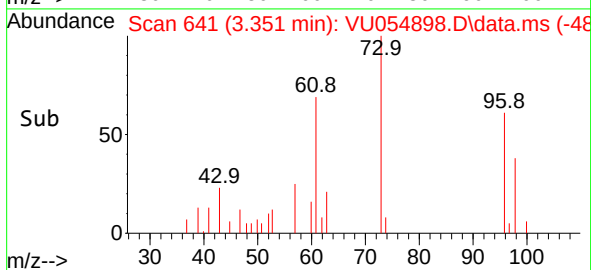
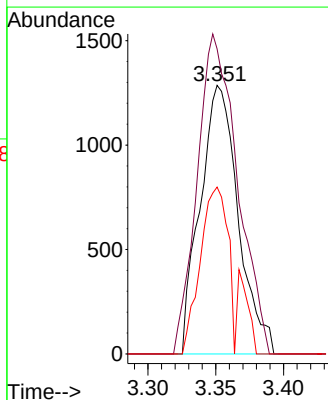
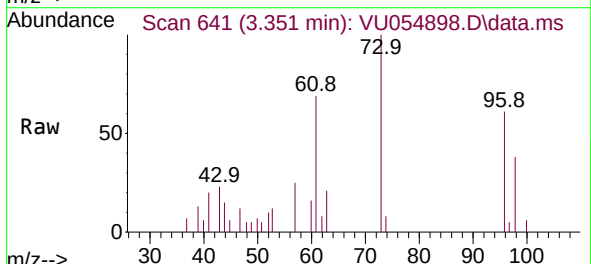
Manual Integrations  
APPROVED

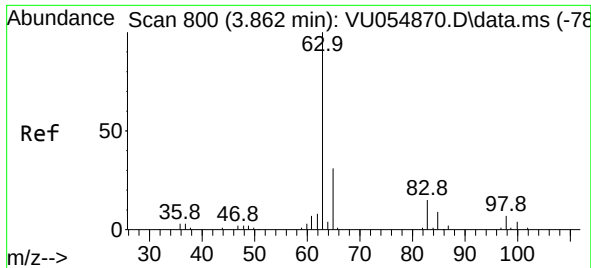
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#16  
trans-1,2-Dichloroethene  
Concen: 0.501 ug/l  
RT: 3.351 min Scan# 641  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion: 96 Resp: 2513  
Ion Ratio Lower Upper  
96 100  
61 104.6 96.4 144.6  
98 57.2 49.3 73.9





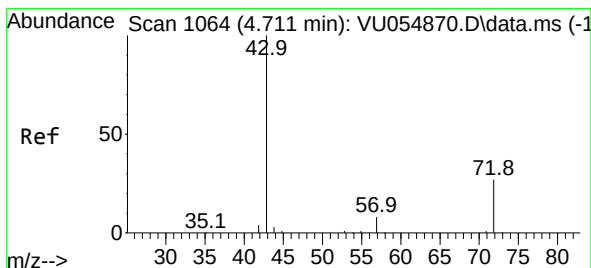
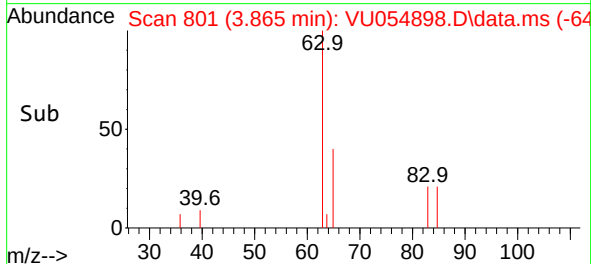
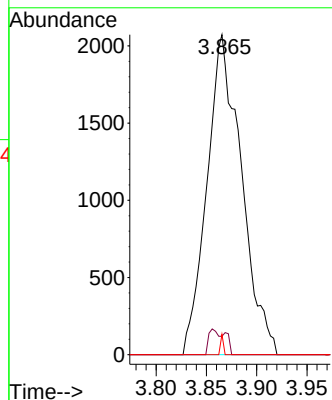
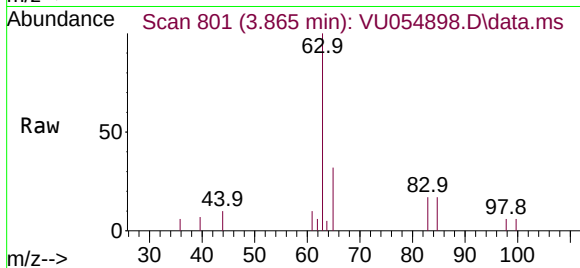
#17  
1,1-Dichloroethane  
Concen: 0.440 ug/l  
RT: 3.865 min Scan# 800  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 63 Resp: 4930  
Ion Ratio Lower Upper  
63 100  
98 5.4 3.6 10.8  
100 6.0 2.8 8.4

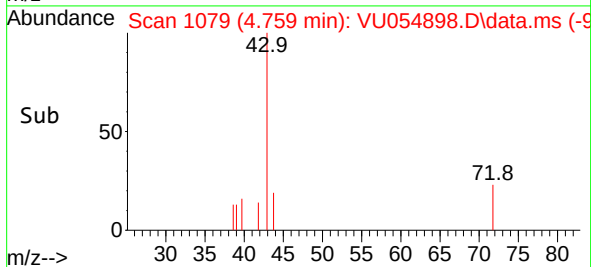
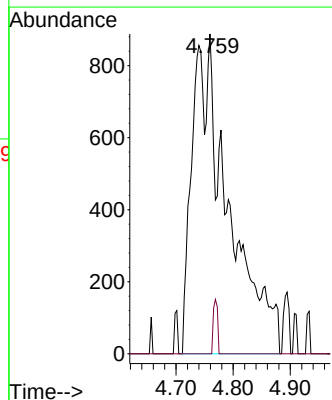
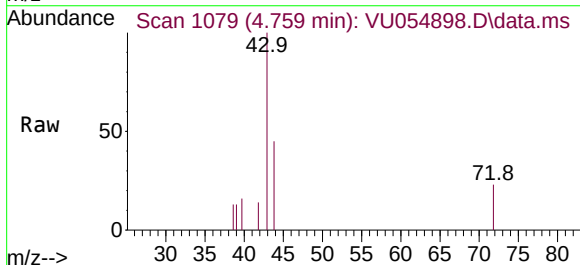
Manual Integrations  
APPROVED

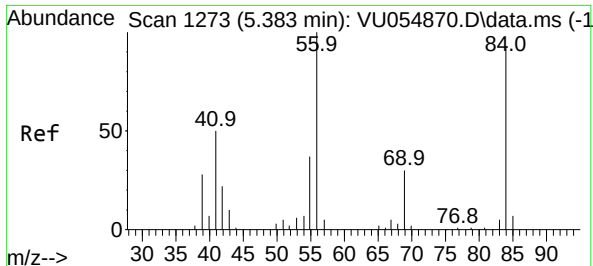
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#18  
2-Butanone  
Concen: 2.567 ug/l m  
RT: 4.759 min Scan# 1079  
Delta R.T. 0.048 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion: 43 Resp: 3910  
Ion Ratio Lower Upper  
43 100  
57 0.0 0.0 20.8





#19

Cyclohexane

Concen: 0.436 ug/l

RT: 5.386 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

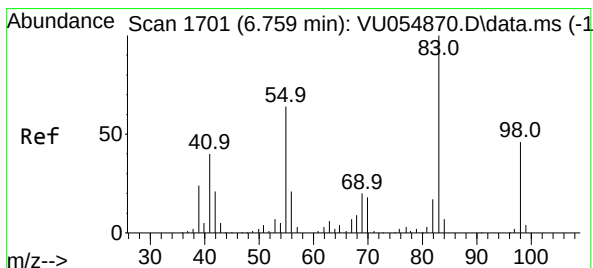
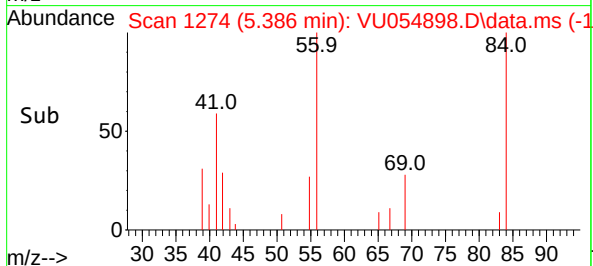
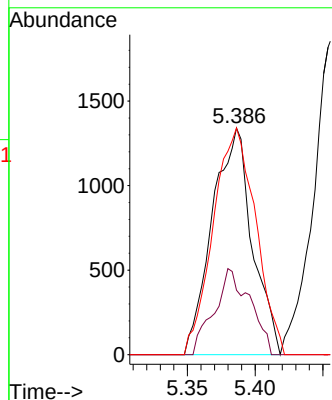
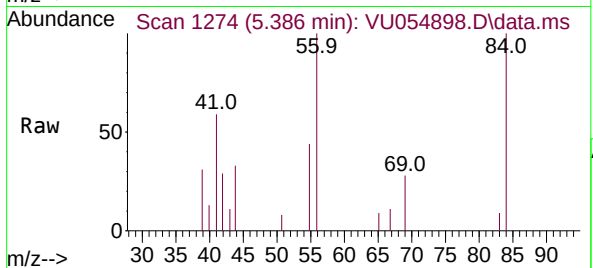
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 275   |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 34.0  | 24.7  | 37.1  |
| 84       | 106.1 | 76.5  | 114.7 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#20

Methylcyclohexane

Concen: 0.404 ug/l

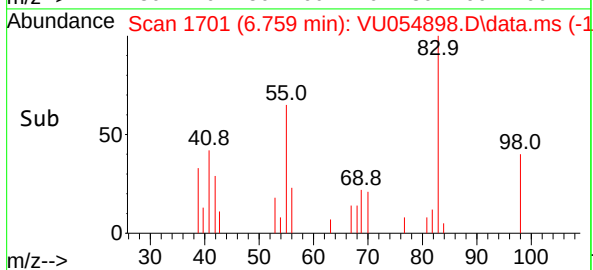
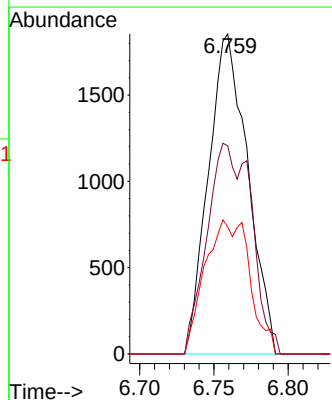
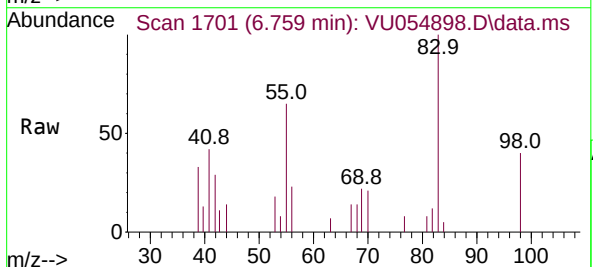
RT: 6.759 min Scan# 1701

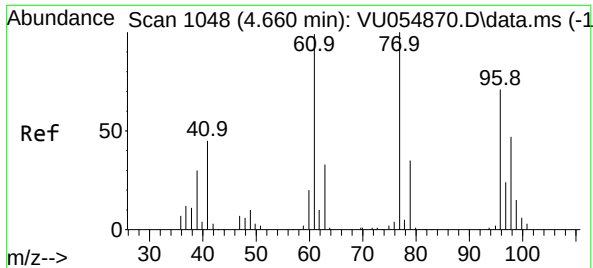
Delta R.T. -0.000 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 3406  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 49.7  | 51.6  | 77.4# |
| 98       | 29.9  | 38.2  | 57.2# |





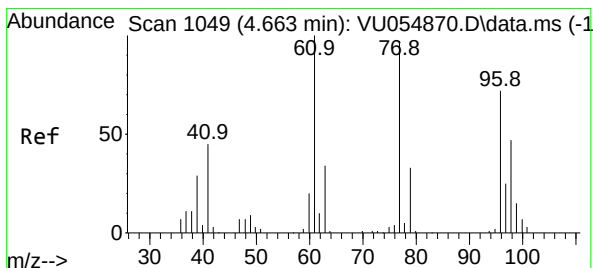
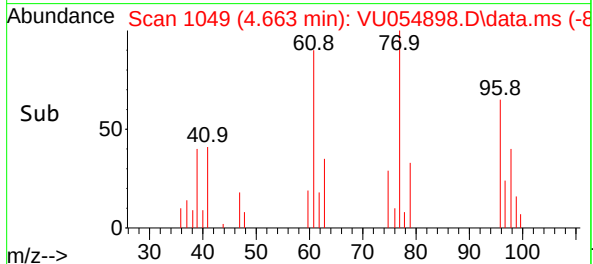
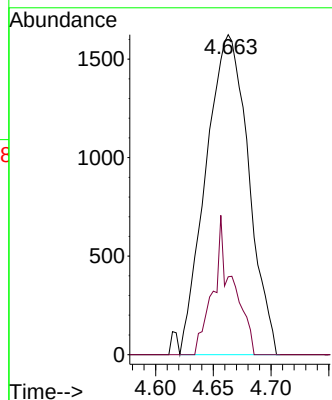
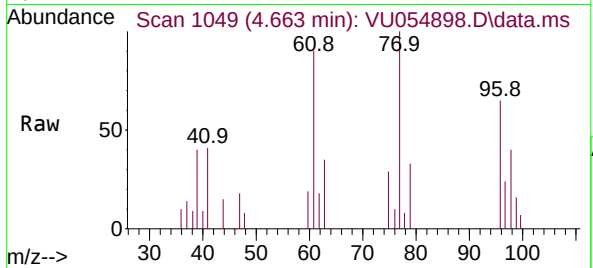
#21  
2,2-Dichloropropane  
Concen: 0.402 ug/l  
RT: 4.663 min Scan# 1048  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 77 Resp: 4174  
Ion Ratio Lower Upper  
77 100  
97 20.1 18.0 27.0

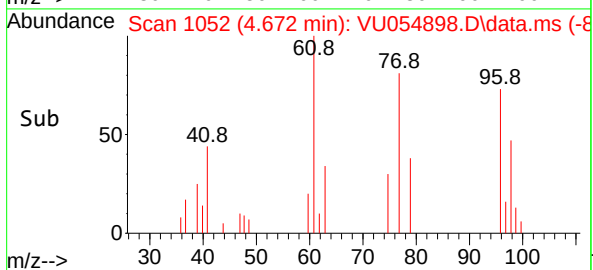
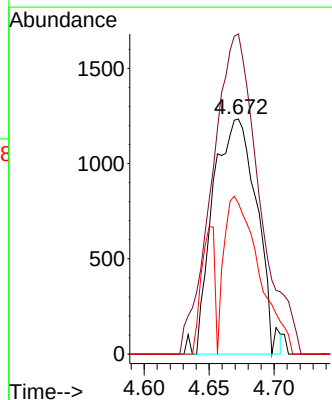
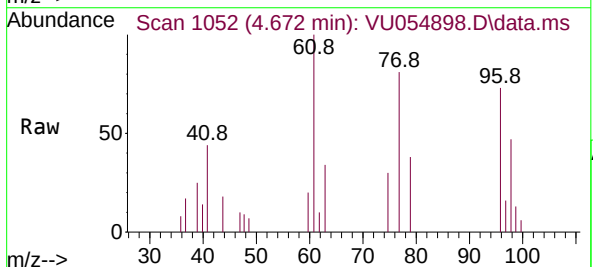
Manual Integrations  
APPROVED

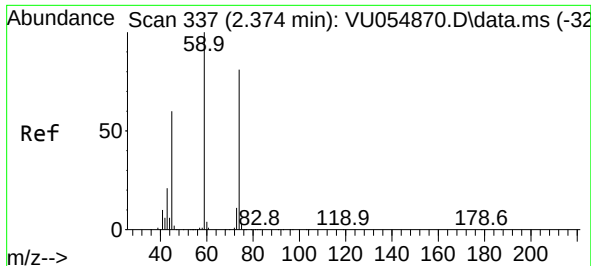
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#22  
cis-1,2-Dichloroethene  
Concen: 0.436 ug/l  
RT: 4.672 min Scan# 1052  
Delta R.T. 0.010 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

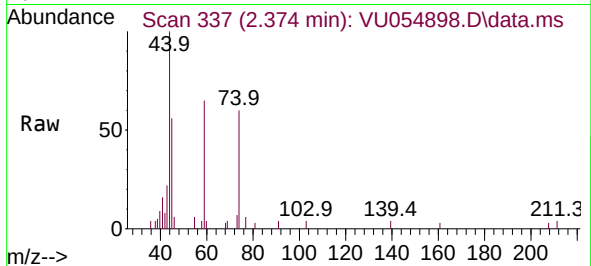
Tgt Ion: 96 Resp: 2902  
Ion Ratio Lower Upper  
96 100  
61 145.5 0.0 332.0  
98 53.4 32.5 97.5





#23  
Diethyl Ether  
Concen: 0.503 ug/l  
RT: 2.374 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

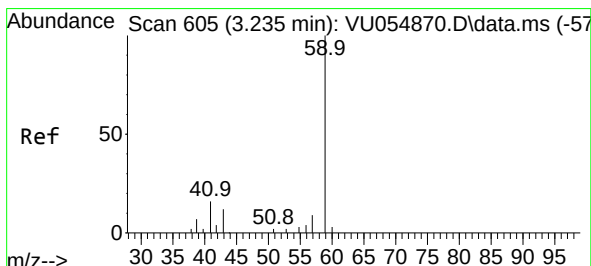
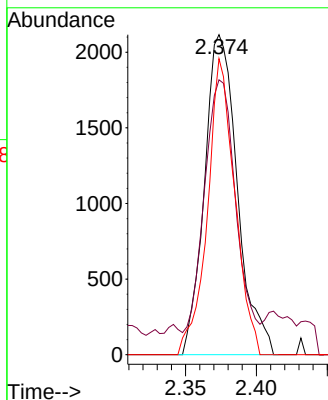
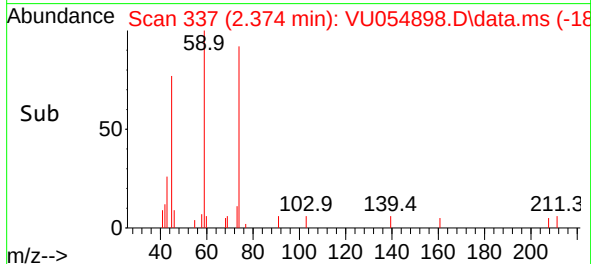
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



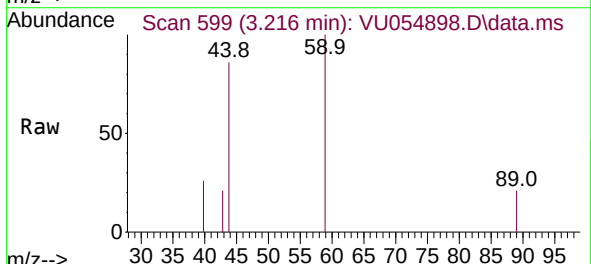
Tgt Ion: 59 Resp: 3418  
Ion Ratio Lower Upper  
59 100  
45 72.2 51.4 77.0  
74 77.0 63.1 94.7

Manual Integrations  
APPROVED

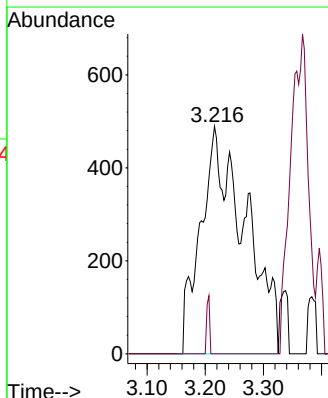
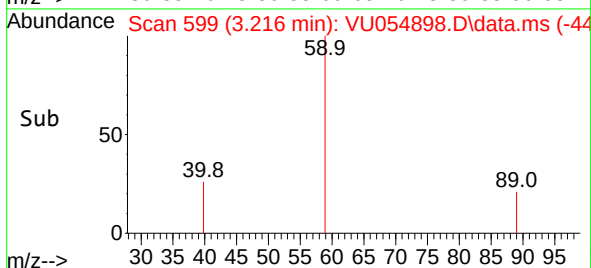
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023

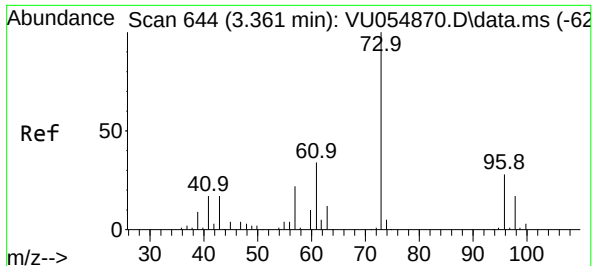


#24  
tert-Butyl Alcohol  
Concen: 4.105 ug/l m  
RT: 3.216 min Scan# 599  
Delta R.T. -0.019 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



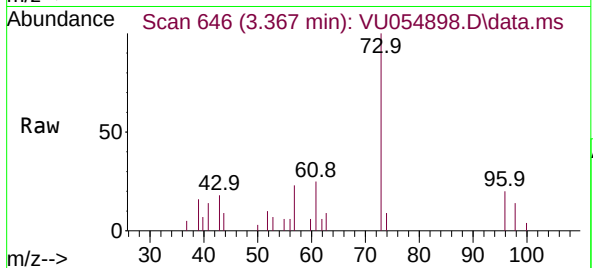
Tgt Ion: 59 Resp: 2594  
Ion Ratio Lower Upper  
59 100  
57 0.0 2.2 3.2#





#25  
Methyl tert-Butyl Ether  
Concen: 0.477 ug/l  
RT: 3.367 min Scan# 644  
Delta R.T. 0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

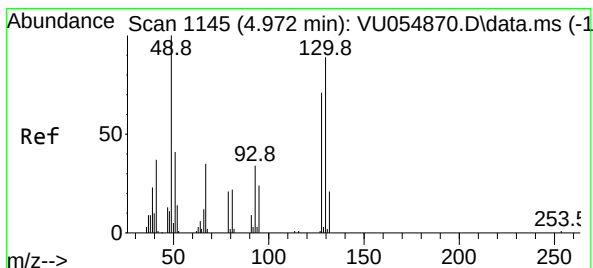
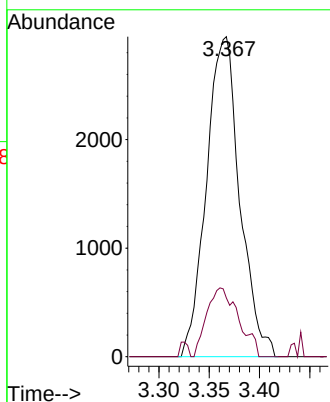
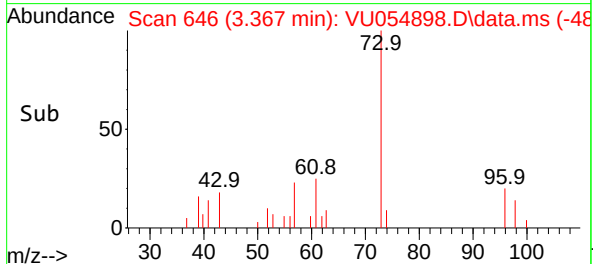
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



Tgt Ion: 73 Resp: 6800  
Ion Ratio Lower Upper  
73 100  
43 20.5 14.6 22.0

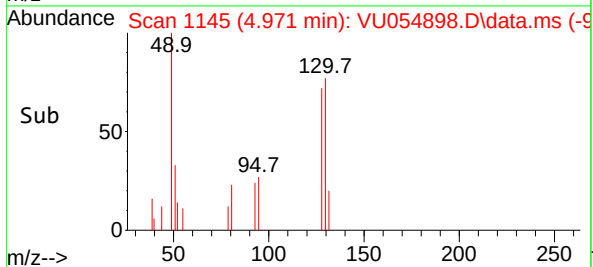
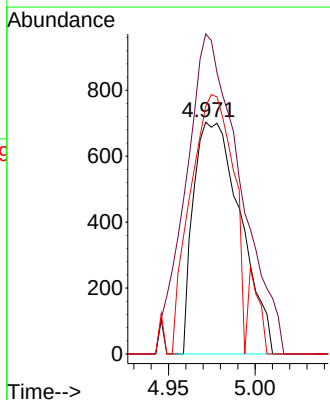
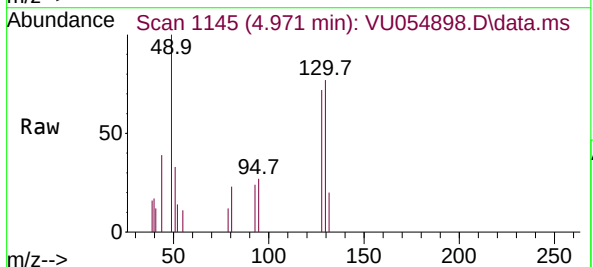
Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023

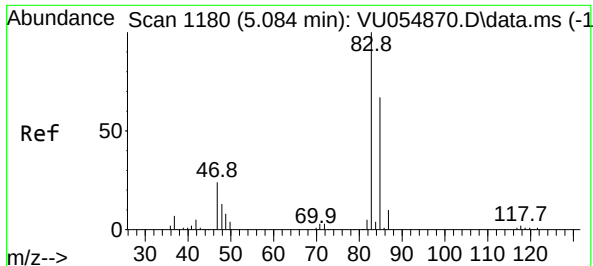


#26  
Bromochloromethane  
Concen: 0.486 ug/l  
RT: 4.971 min Scan# 1145  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion:128 Resp: 1327  
Ion Ratio Lower Upper  
128 100  
49 158.9 0.0 304.0  
130 110.8 104.3 156.5







#27

Chloroform

Concen: 0.441 ug/l

RT: 5.087 min Scan# 1180

Delta R.T. 0.003 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

Tgt Ion: 83 Resp: 5310

Ion Ratio Lower Upper

83 100

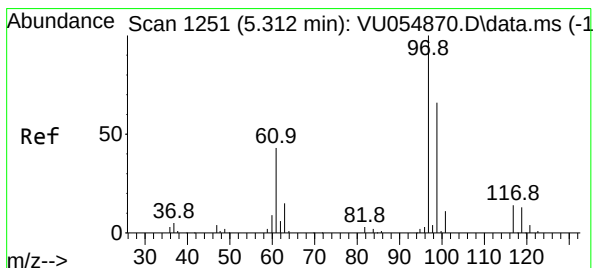
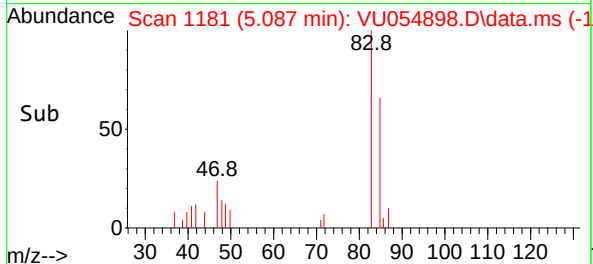
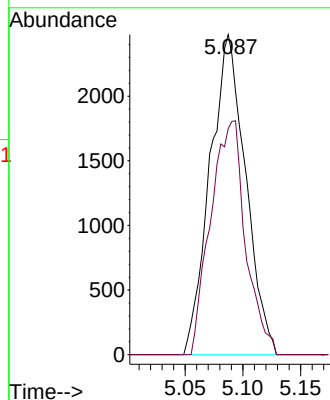
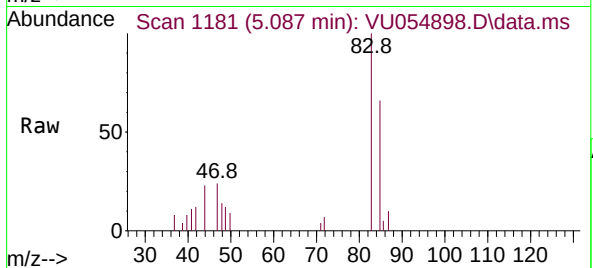
85 70.7 0.0 135.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#28

1,1,1-Trichloroethane

Concen: 0.443 ug/l

RT: 5.316 min Scan# 1252

Delta R.T. 0.003 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

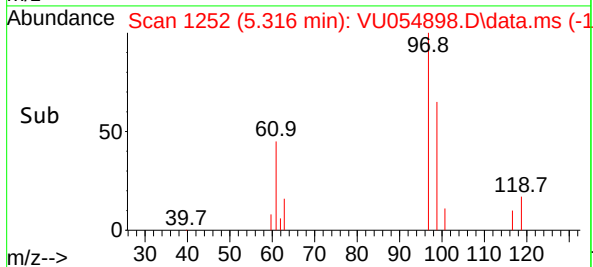
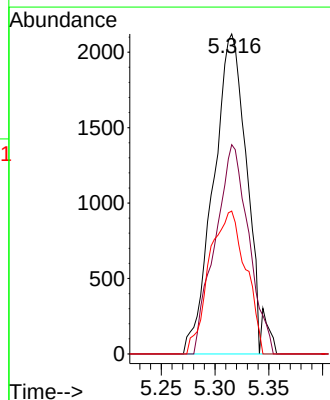
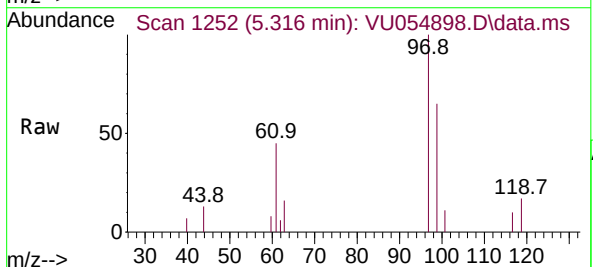
Tgt Ion: 97 Resp: 4610

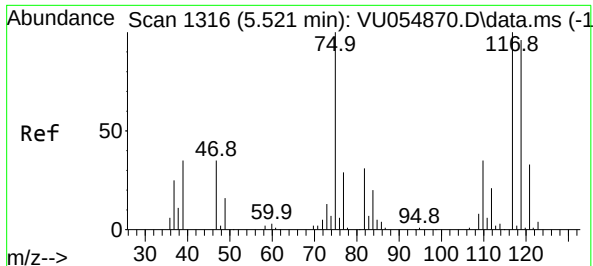
Ion Ratio Lower Upper

97 100

99 65.1 32.0 96.2

61 48.4 21.0 63.0





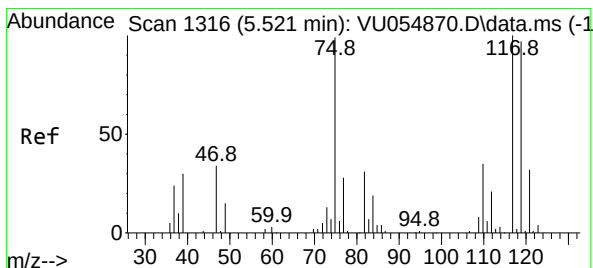
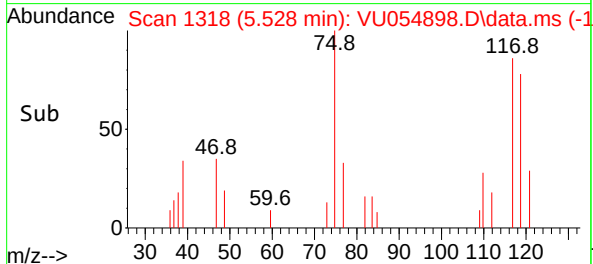
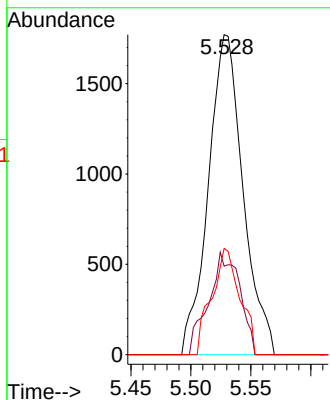
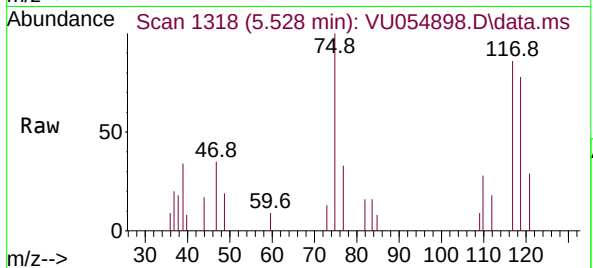
#29  
1,1-Dichloropropene  
Concen: 0.464 ug/l  
RT: 5.528 min Scan# 1318  
Delta R.T. 0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 75 Resp: 3550  
Ion Ratio Lower Upper  
75 100  
110 28.8 18.5 55.5  
77 27.1 24.9 37.3

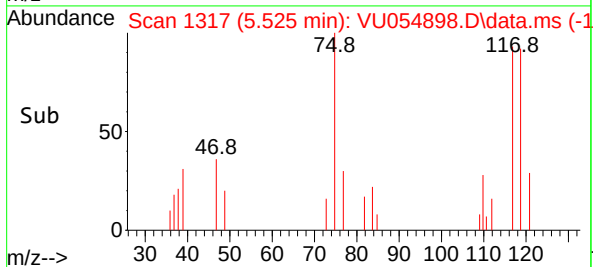
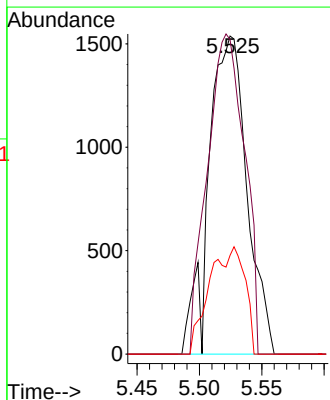
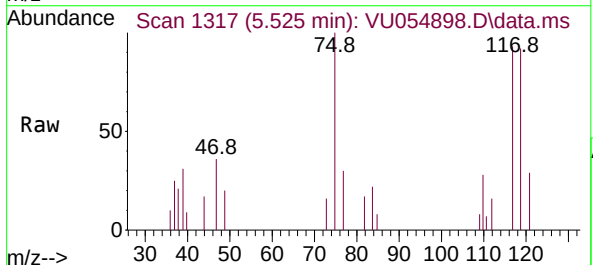
Manual Integrations  
APPROVED

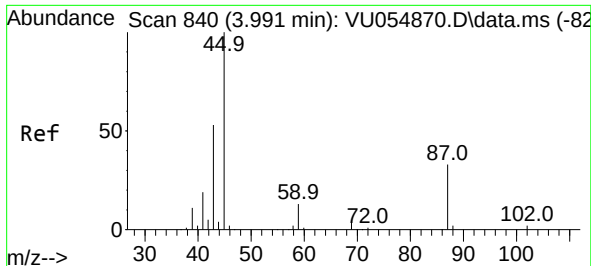
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#30  
Carbon Tetrachloride  
Concen: 0.378 ug/l  
RT: 5.525 min Scan# 1317  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion:117 Resp: 3282  
Ion Ratio Lower Upper  
117 100  
119 98.9 75.6 113.4  
121 31.0 23.4 35.0





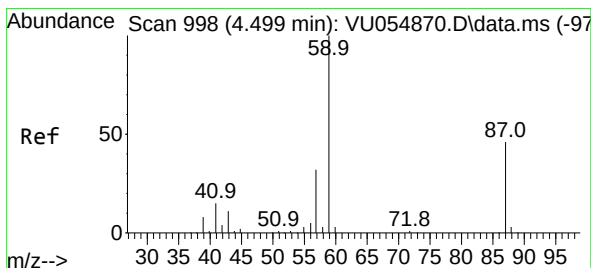
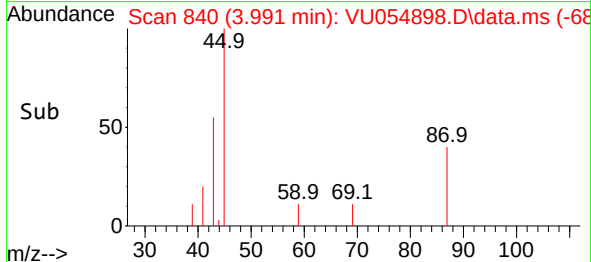
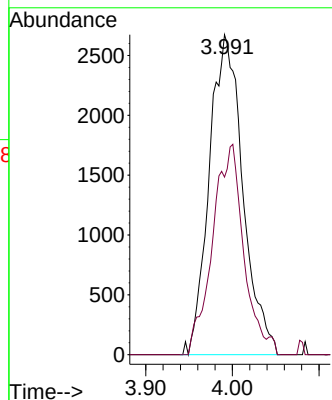
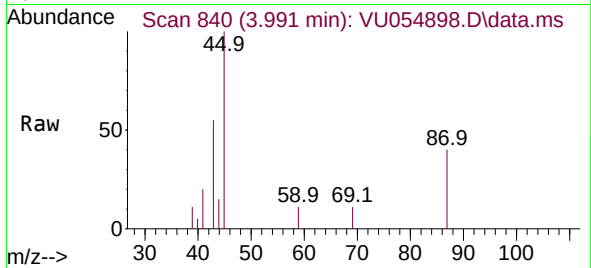
#31  
Isopropyl Ether  
Concen: 0.435 ug/l  
RT: 3.991 min Scan# 840  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 45 Resp: 7192  
Ion Ratio Lower Upper  
45 100  
43 60.4 26.4 79.2

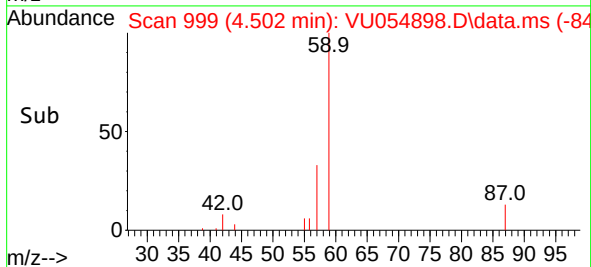
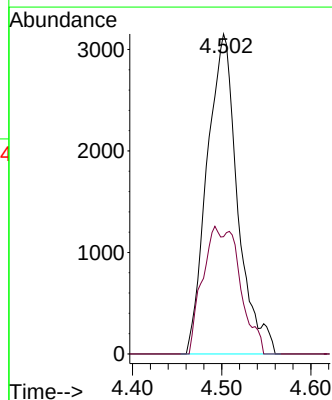
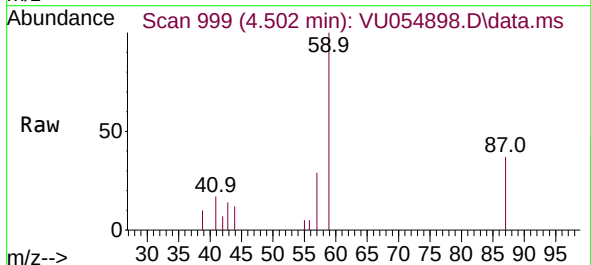
Manual Integrations  
APPROVED

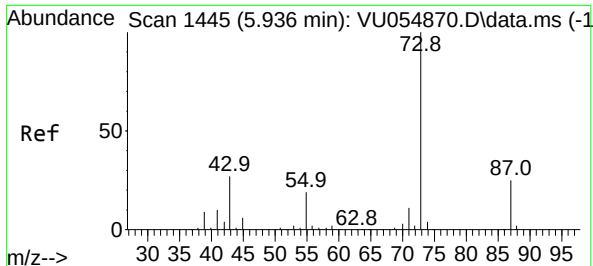
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#32  
Ethyl-t-butyl ether  
Concen: 0.439 ug/l m  
RT: 4.502 min Scan# 999  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion: 59 Resp: 7478  
Ion Ratio Lower Upper  
59 100  
87 24.3 35.7 53.5#





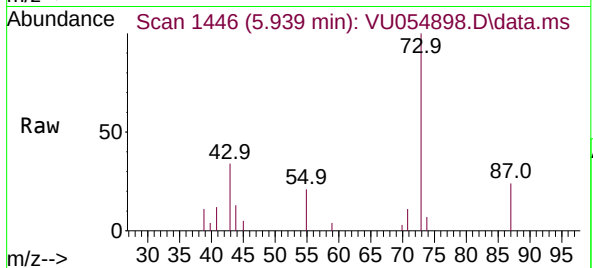
#33  
Tert-Amyl methyl ether  
Concen: 0.503 ug/l  
RT: 5.939 min Scan# 1445  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK



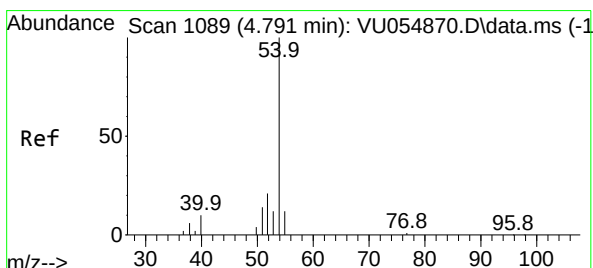
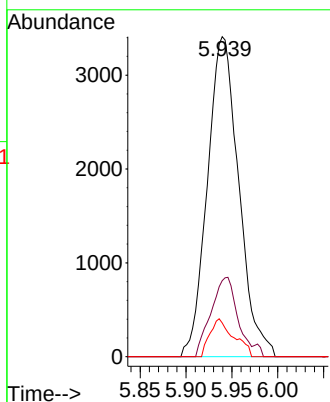
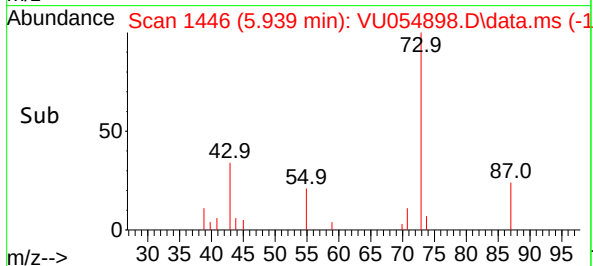
Tgt Ion: 73 Resp: 810  
Ion Ratio Lower Upper  
73 100  
87 21.6 19.6 29.4  
71 9.0 9.1 13.7

Manual Integrations

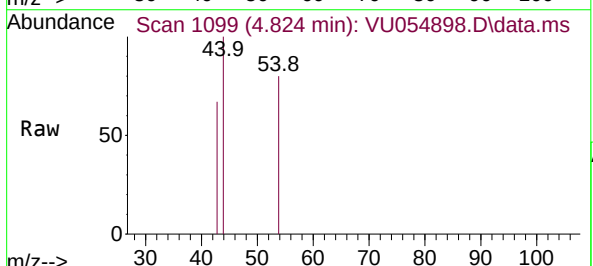
APPROVED

Reviewed By :John Carlone 07/28/2023

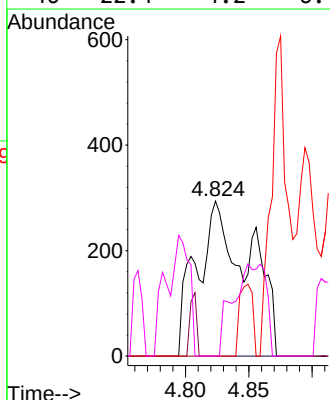
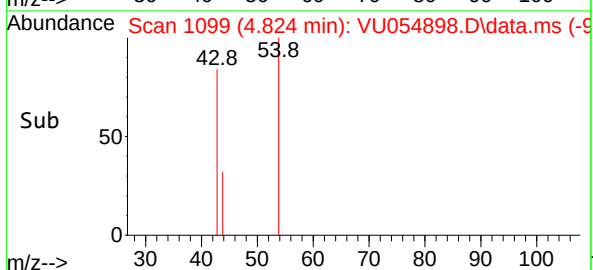
Supervised By :Mahesh Dadoda 07/31/2023

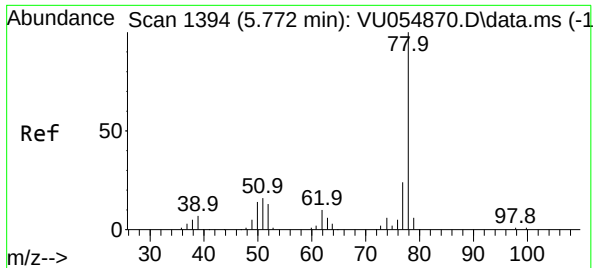


#34  
Propionitrile  
Concen: 1.990 ug/l m  
RT: 4.824 min Scan# 1099  
Delta R.T. 0.032 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



Tgt Ion: 54 Resp: 836  
Ion Ratio Lower Upper  
54 100  
52 5.1 13.8 20.8#  
55 0.0 4.8 7.2#  
40 22.4 4.2 6.4#





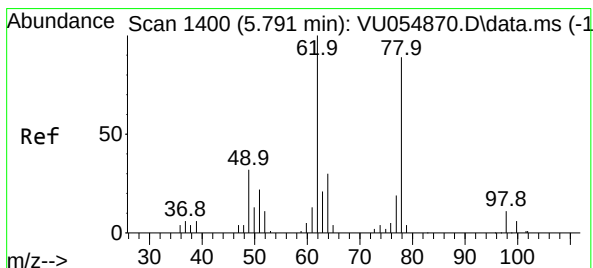
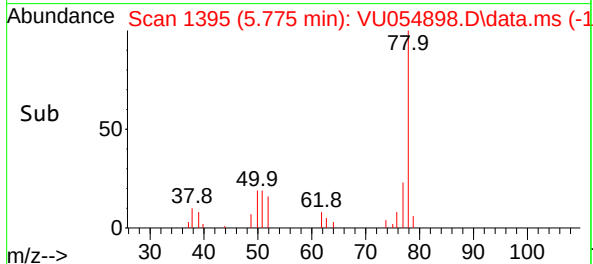
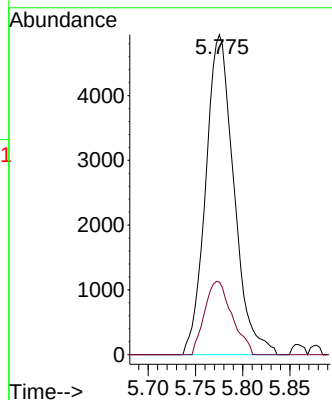
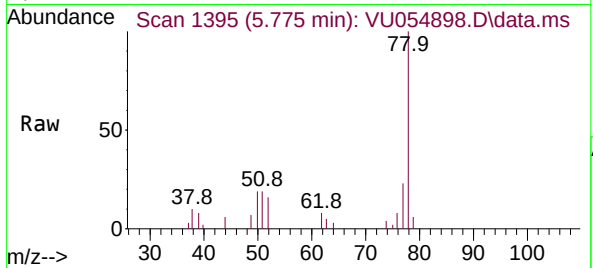
#35  
Benzene  
Concen: 0.426 ug/l  
RT: 5.775 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 78 Resp: 1024  
Ion Ratio Lower Upper  
78 100  
77 21.4 19.4 29.2

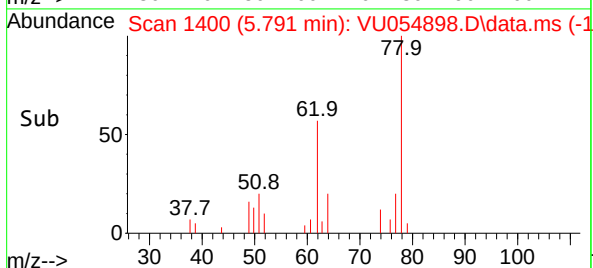
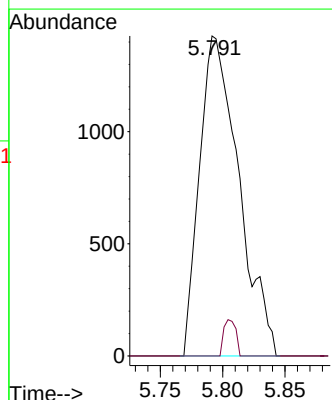
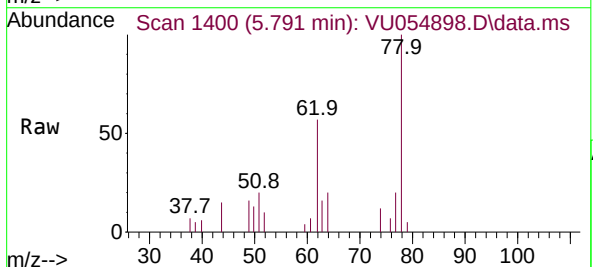
Manual Integrations  
APPROVED

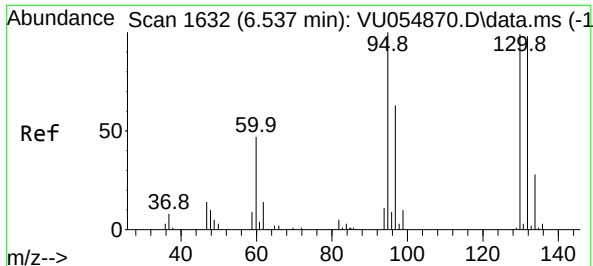
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#36  
1,2-Dichloroethane  
Concen: 0.456 ug/l  
RT: 5.791 min Scan# 1400  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion: 62 Resp: 3119  
Ion Ratio Lower Upper  
62 100  
98 3.5 7.8 11.8#





#37

Trichloroethene

Concen: 0.468 ug/l

RT: 6.547 min Scan# 1

Delta R.T. 0.010 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

Tgt Ion:130 Resp: 3024

Ion Ratio Lower Upper

130 100

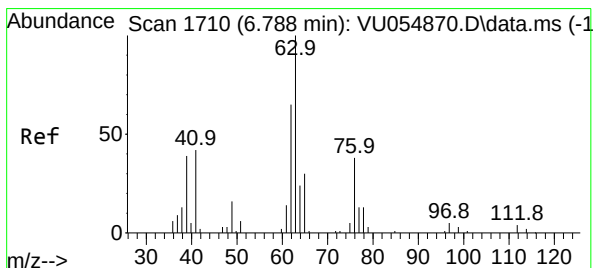
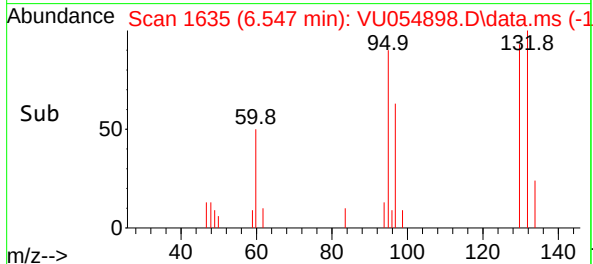
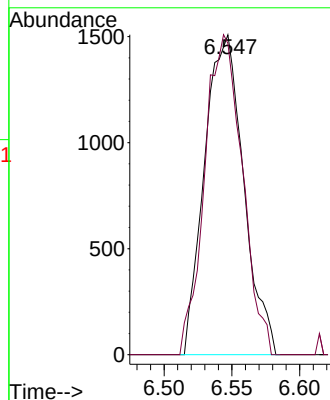
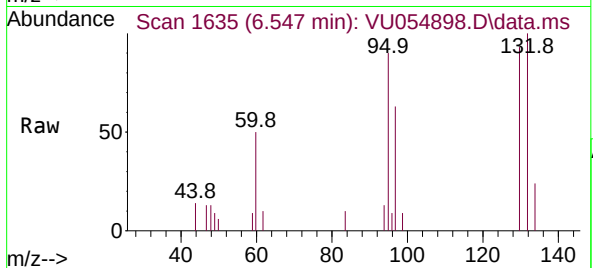
95 97.3 76.8 115.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#38

1,2-Dichloropropane

Concen: 0.435 ug/l

RT: 6.795 min Scan# 1712

Delta R.T. 0.006 min

Lab File: VU054898.D

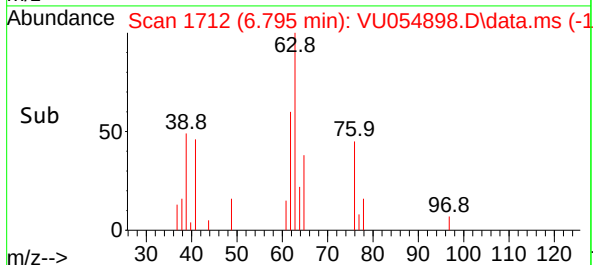
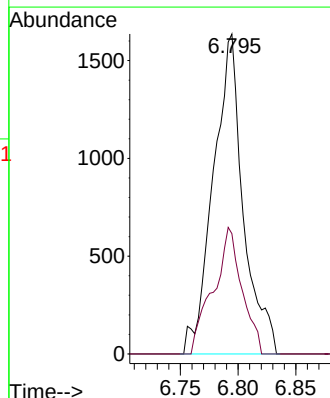
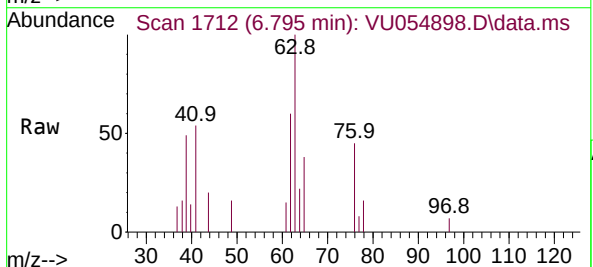
Acq: 27 Jul 2023 16:53

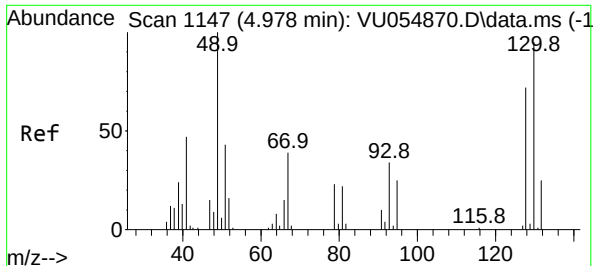
Tgt Ion: 63 Resp: 2952

Ion Ratio Lower Upper

63 100

65 37.6 24.3 36.5#





#39

Methacrylonitrile

Concen: 0.535 ug/l m

RT: 4.997 min Scan# 1115

Delta R.T. 0.019 min

Lab File: VU054898.D

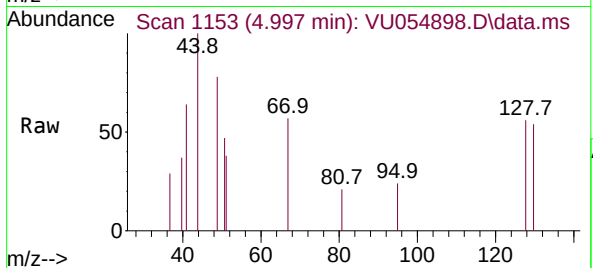
Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK



Tgt Ion: 41 Resp: 90

Ion Ratio Lower Upper

41 100

67 33.6 77.0 115.4

39 23.1 50.4 75.6

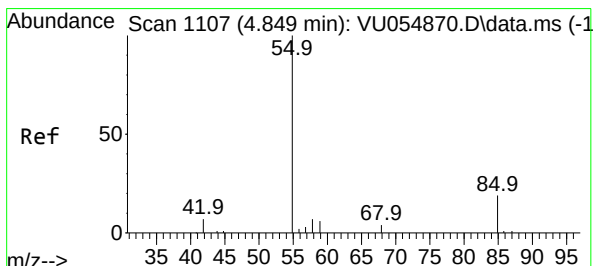
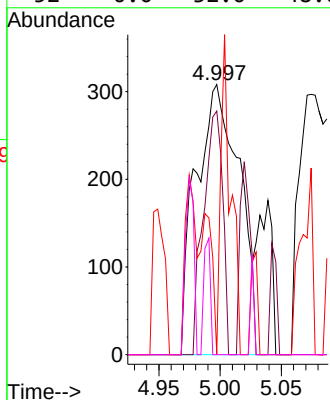
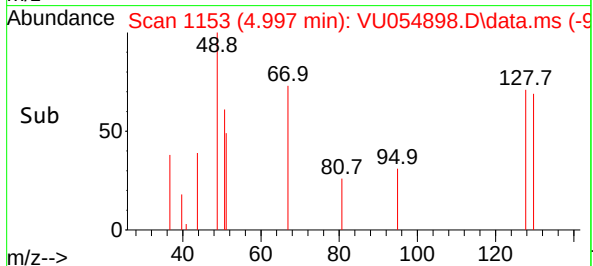
52 0.0 32.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#40

Methyl acrylate

Concen: 0.511 ug/l m

RT: 4.875 min Scan# 1115

Delta R.T. 0.026 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Tgt Ion: 55 Resp: 1369

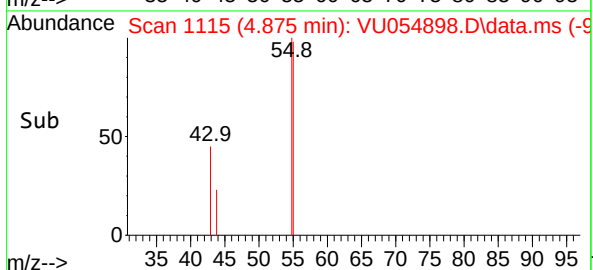
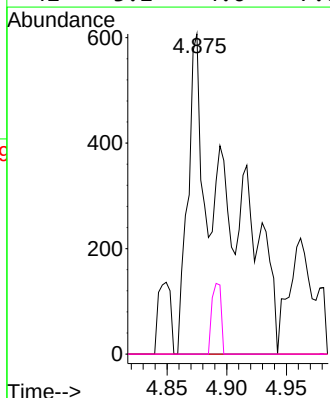
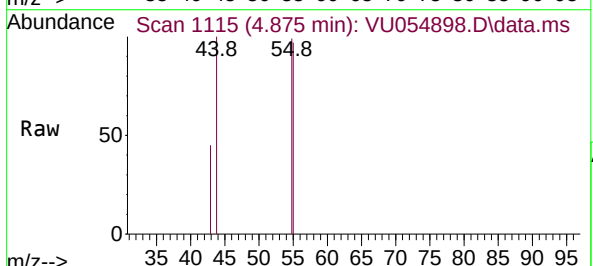
Ion Ratio Lower Upper

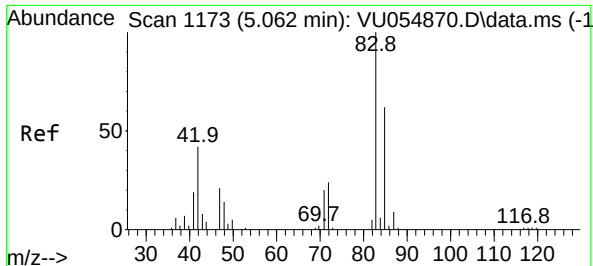
55 100

85 0.0 13.0 19.6

58 0.0 5.7 8.5

42 3.2 4.6 7.0





#41

Tetrahydrofuran

Concen: 1.006 ug/l m

RT: 5.084 min Scan# 1173

Delta R.T. 0.022 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

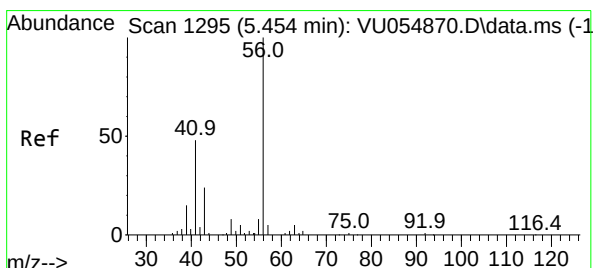
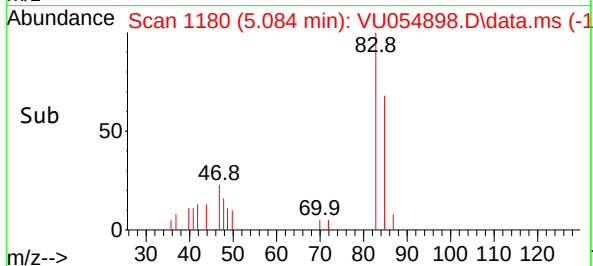
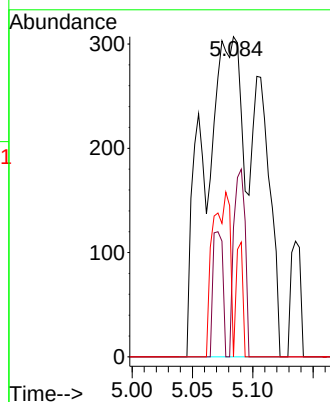
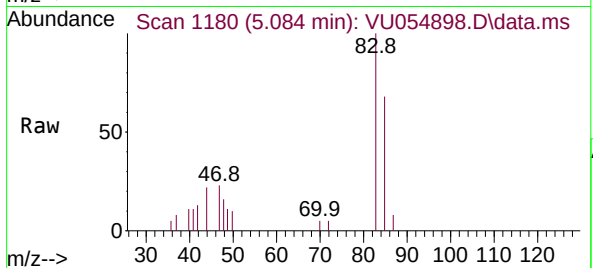
|             |                |
|-------------|----------------|
| Tgt Ion: 42 | Resp: 969      |
| Ion Ratio   | Lower Upper    |
| 42          | 100            |
| 72          | 6.9 42.1 63.1  |
| 71          | 16.1 39.7 59.5 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#42

1-Chlorobutane

Concen: 0.437 ug/l

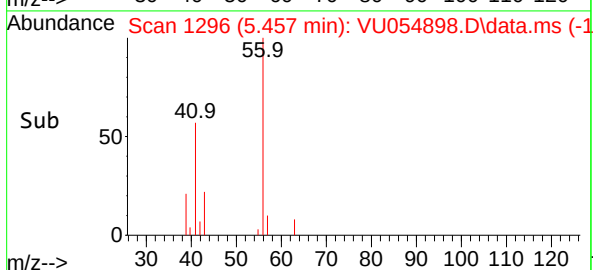
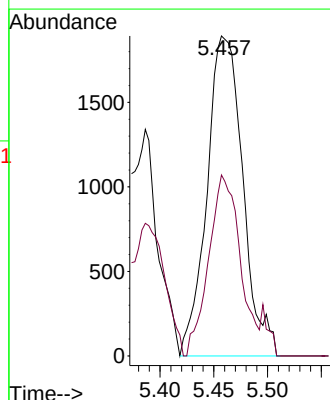
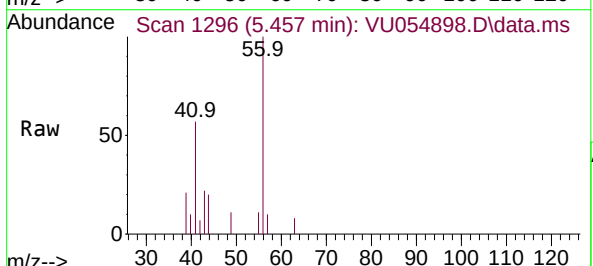
RT: 5.457 min Scan# 1296

Delta R.T. 0.003 min

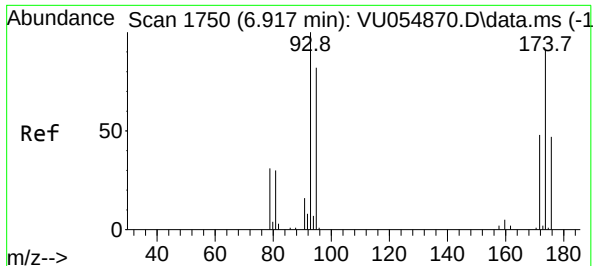
Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

|             |                |
|-------------|----------------|
| Tgt Ion: 56 | Resp: 4393     |
| Ion Ratio   | Lower Upper    |
| 56          | 100            |
| 41          | 49.6 23.9 71.7 |

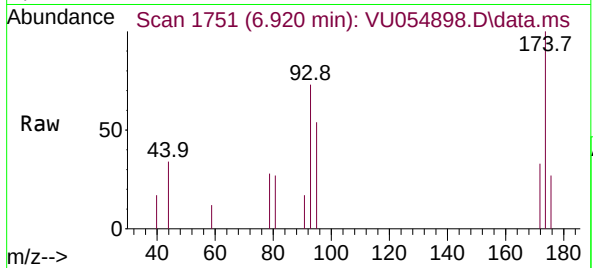






#43  
Dibromomethane  
Concen: 0.477 ug/l  
RT: 6.920 min Scan# 1751  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

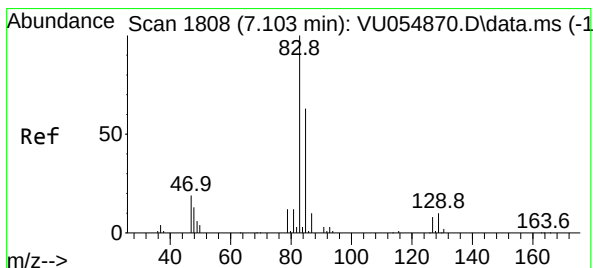
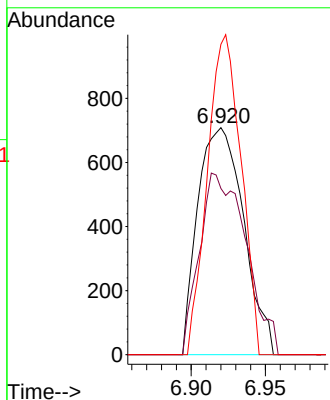
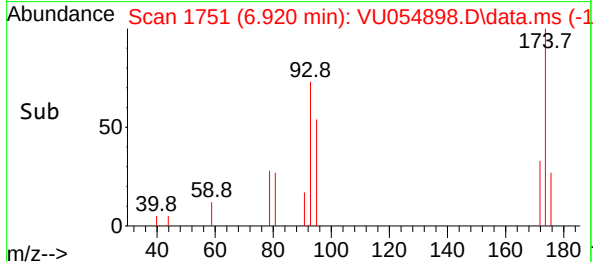
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



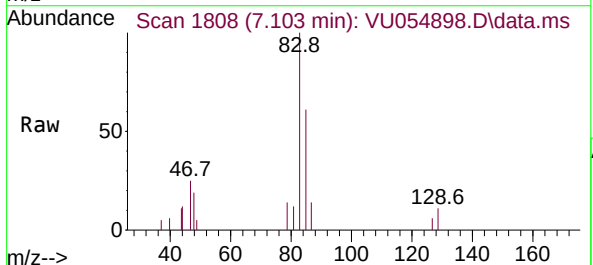
Tgt Ion: 93 Resp: 152  
Ion Ratio Lower Upper  
93 100  
95 81.3 64.7 97.1  
174 103.6 74.4 111.6

Manual Integrations  
APPROVED

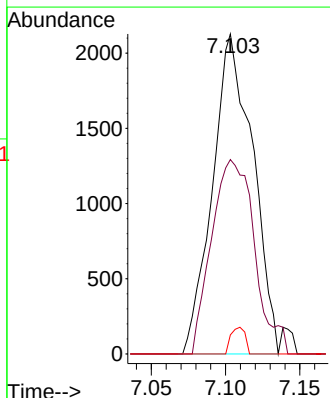
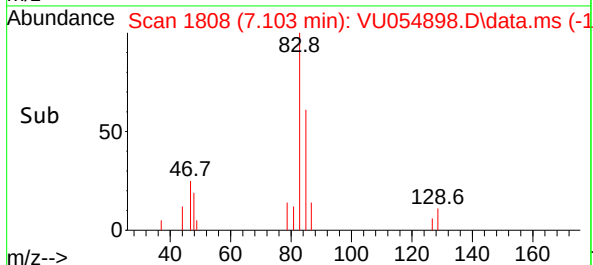
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023

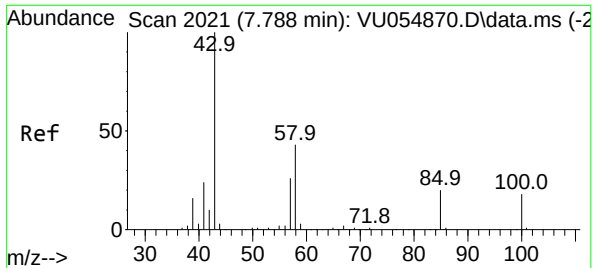


#44  
Bromodichloromethane  
Concen: 0.451 ug/l  
RT: 7.103 min Scan# 1808  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



Tgt Ion: 83 Resp: 4011  
Ion Ratio Lower Upper  
83 100  
85 60.8 52.2 78.2  
127 5.9 6.1 9.1#





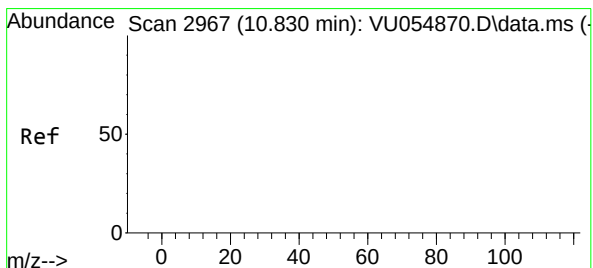
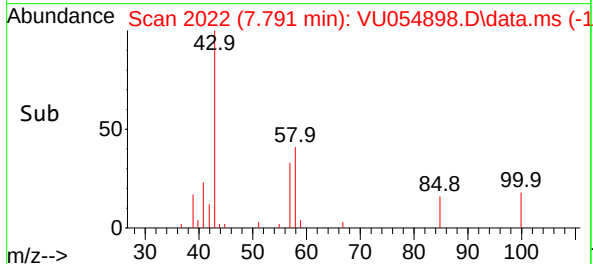
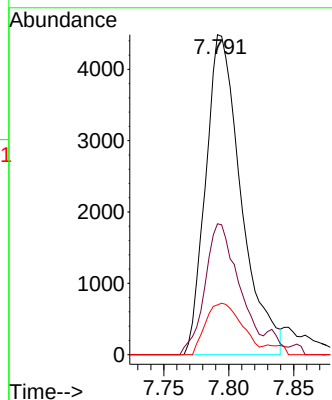
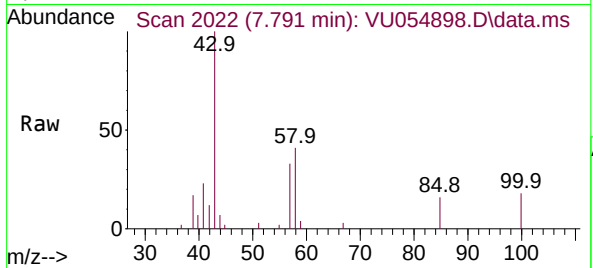
#45  
4-Methyl-2-Pentanone  
Concen: 2.288 ug/l  
RT: 7.791 min Scan# 2021  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 43 Resp: 8514  
Ion Ratio Lower Upper  
43 100  
58 39.5 21.3 63.7  
85 16.6 15.3 22.9

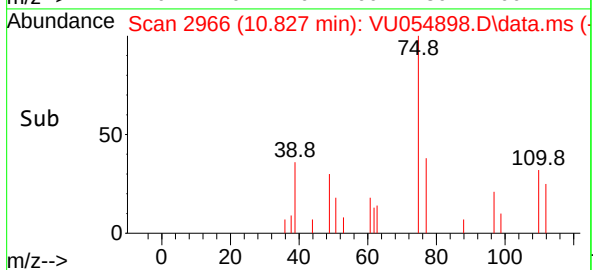
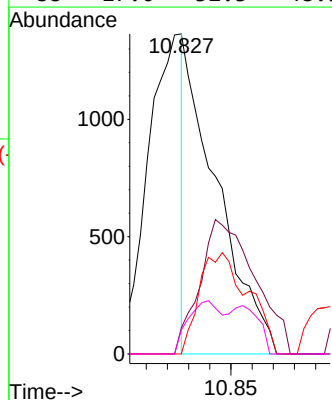
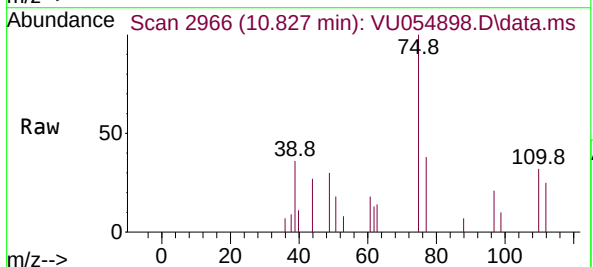
Manual Integrations  
APPROVED

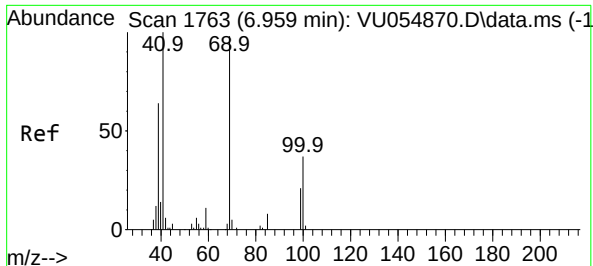
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#46  
t-1,4-Dichloro-2-butene  
Concen: 0.943 ug/l m  
RT: 10.827 min Scan# 2966  
Delta R.T. -0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion: 75 Resp: 1412  
Ion Ratio Lower Upper  
75 100  
53 72.8 62.9 94.3  
89 49.0 47.8 71.8  
88 17.0 32.3 48.5





#47

Methyl methacrylate

Concen: 0.931 ug/l

RT: 6.971 min Scan# 1763

Delta R.T. 0.013 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

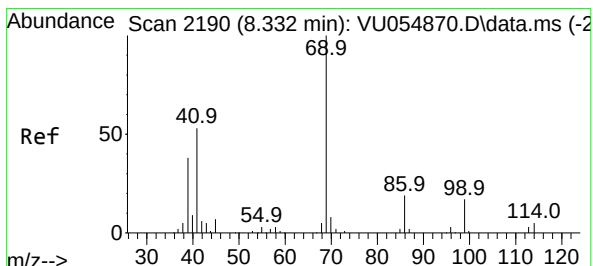
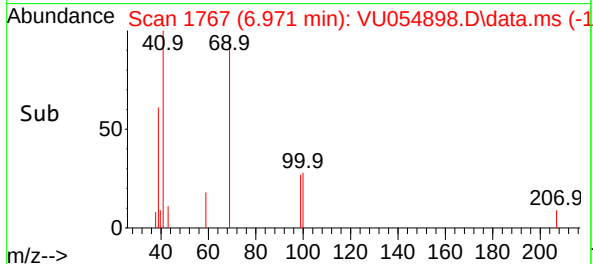
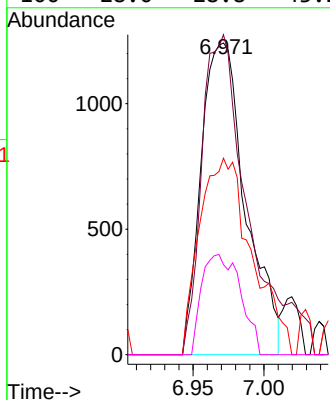
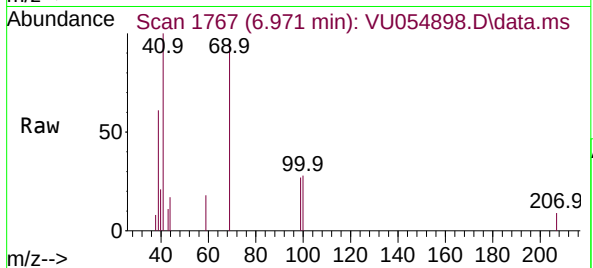
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 271   |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 107.8 | 0.0   | 193.0 |
| 39       | 73.9  | 50.4  | 75.6  |
| 100      | 28.0  | 28.8  | 43.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#48

Ethyl methacrylate

Concen: 0.368 ug/l

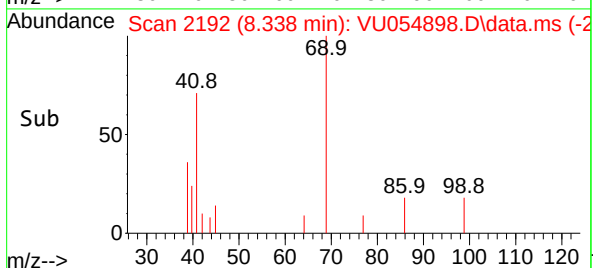
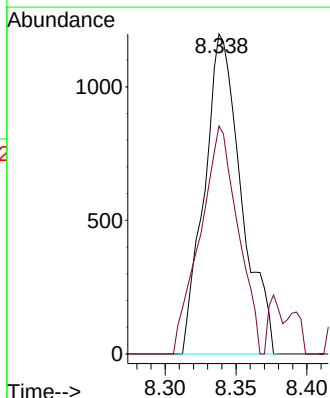
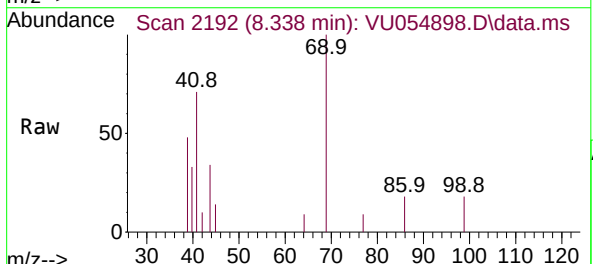
RT: 8.338 min Scan# 2192

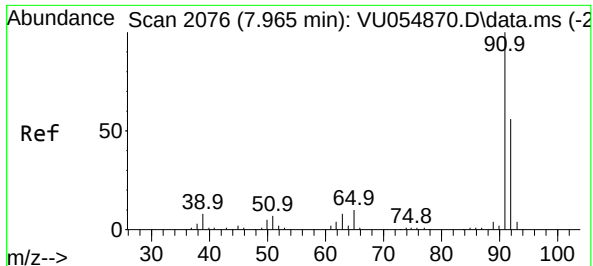
Delta R.T. 0.006 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 2171  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 72.7  | 28.8  | 86.5  |





#49

Toluene

Concen: 0.433 ug/l

RT: 7.968 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

Tgt Ion: 92 Resp: 662

Ion Ratio Lower Upper

92 100

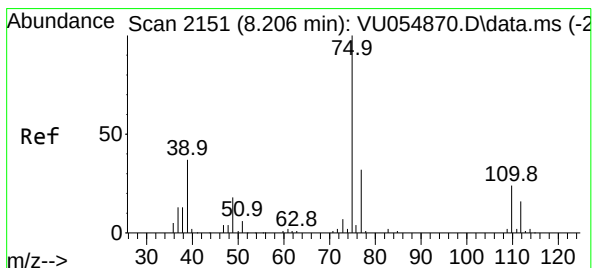
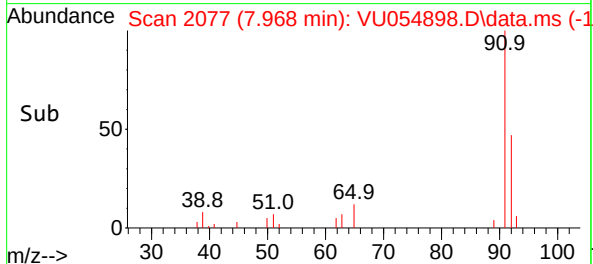
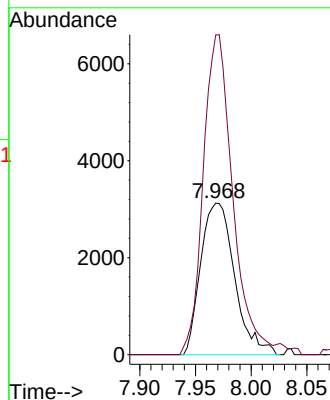
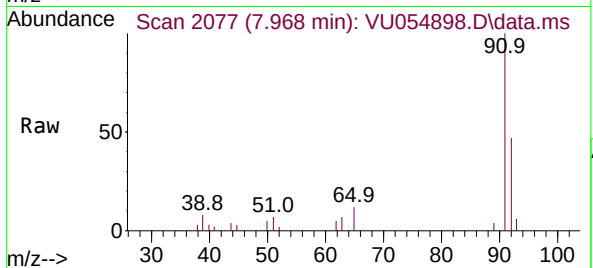
91 183.3 142.9 214.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#50

t-1,3-Dichloropropene

Concen: 0.382 ug/l

RT: 8.213 min Scan# 2153

Delta R.T. 0.006 min

Lab File: VU054898.D

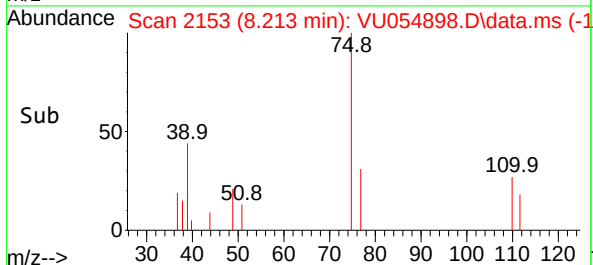
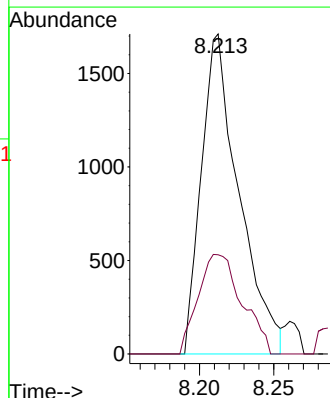
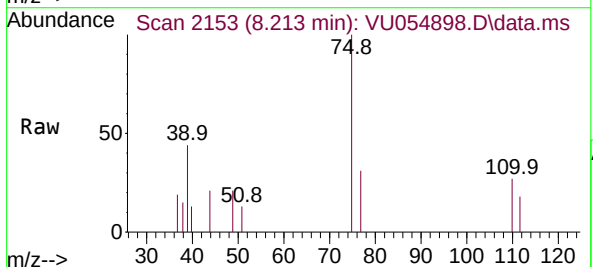
Acq: 27 Jul 2023 16:53

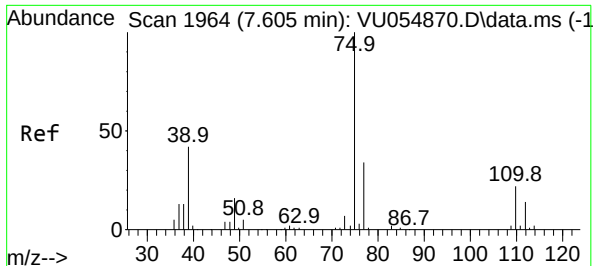
Tgt Ion: 75 Resp: 3010

Ion Ratio Lower Upper

75 100

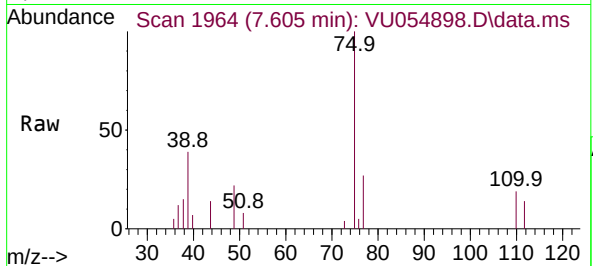
77 31.0 24.9 37.3





#51  
 cis-1,3-Dichloropropene  
 Concen: 0.452 ug/l  
 RT: 7.605 min Scan# 1964  
 Delta R.T. -0.000 min  
 Lab File: VU054898.D  
 Acq: 27 Jul 2023 16:53

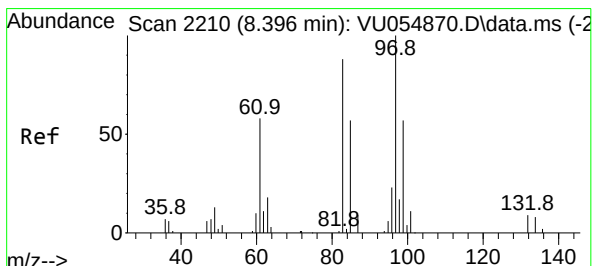
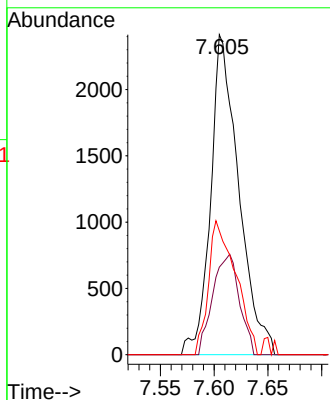
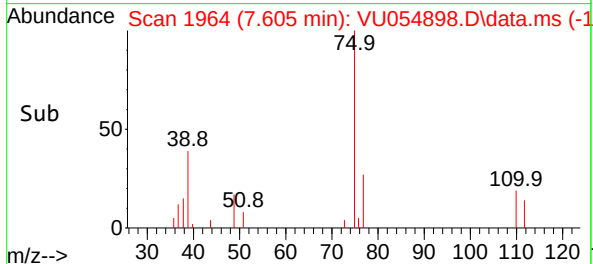
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK



Tgt Ion: 75 Resp: 4384  
 Ion Ratio Lower Upper  
 75 100  
 77 27.4 25.8 38.8  
 39 38.7 31.7 47.5

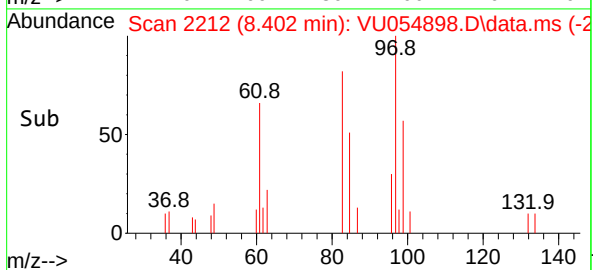
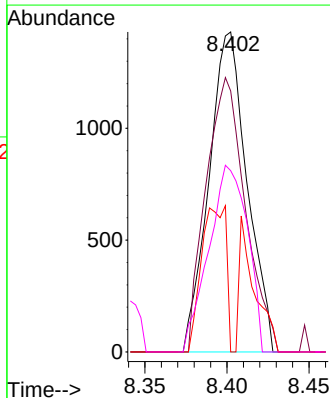
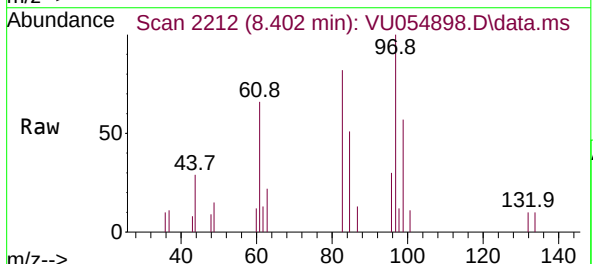
Manual Integrations  
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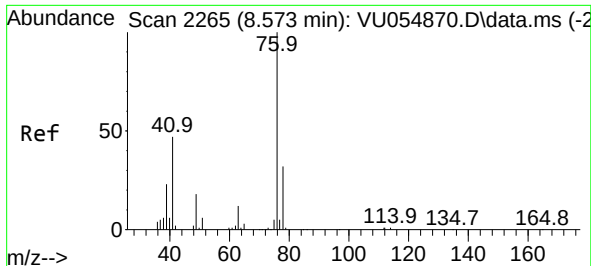
Reviewed By :John Carlone 07/28/2023  
 Supervised By :Mahesh Dadoda 07/31/2023



#52  
 1,1,2-Trichloroethane  
 Concen: 0.456 ug/l  
 RT: 8.402 min Scan# 2212  
 Delta R.T. 0.006 min  
 Lab File: VU054898.D  
 Acq: 27 Jul 2023 16:53

Tgt Ion: 97 Resp: 2307  
 Ion Ratio Lower Upper  
 97 100  
 83 73.0 77.4 116.2#  
 85 0.0 47.8 71.8#  
 99 50.8 53.1 79.7#





#53

1,3-Dichloropropane

Concen: 0.457 ug/l

RT: 8.579 min Scan# 2101

Delta R.T. 0.006 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

Tgt Ion: 76 Resp: 3739

Ion Ratio Lower Upper

76 100

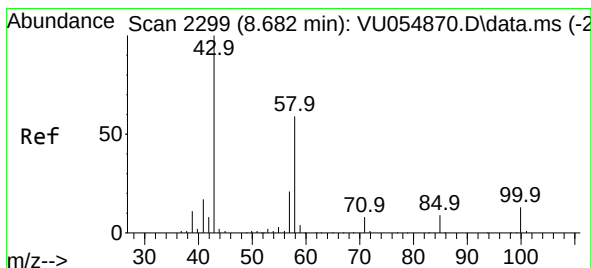
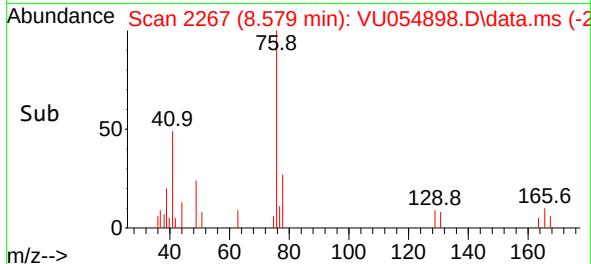
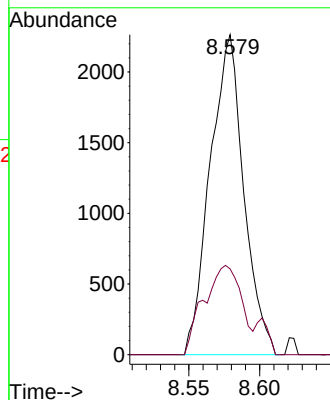
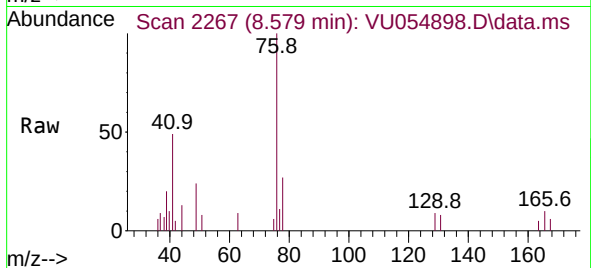
78 31.3 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#54

2-Hexanone

Concen: 1.961 ug/l

RT: 8.688 min Scan# 2301

Delta R.T. 0.006 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

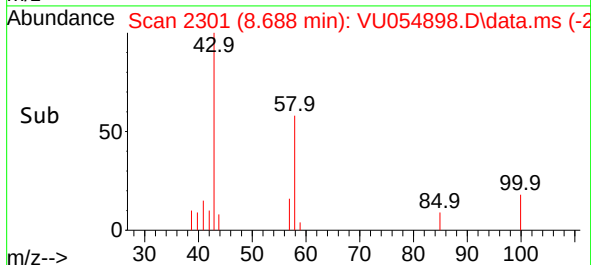
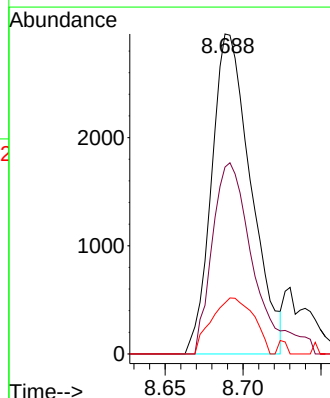
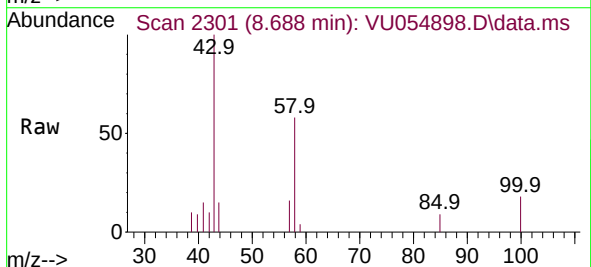
Tgt Ion: 43 Resp: 5185

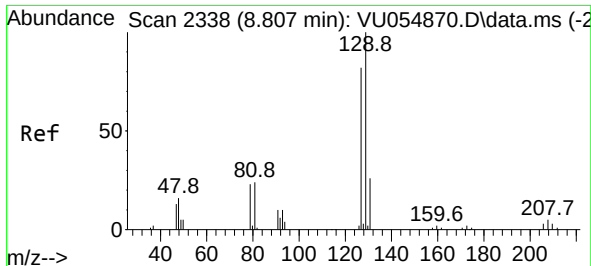
Ion Ratio Lower Upper

43 100

58 62.5 38.9 78.9

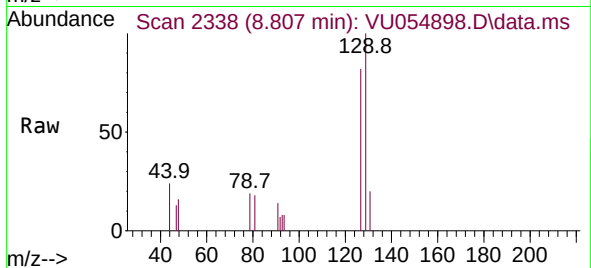
57 18.7 0.0 38.7





#55  
Dibromochloromethane  
Concen: 0.452 ug/l  
RT: 8.807 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

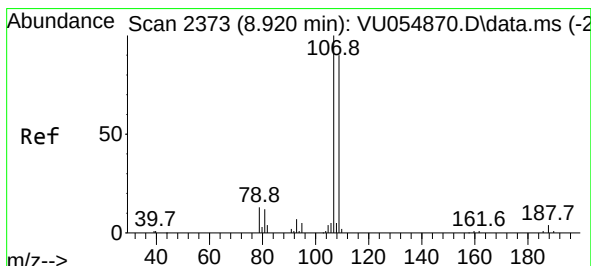
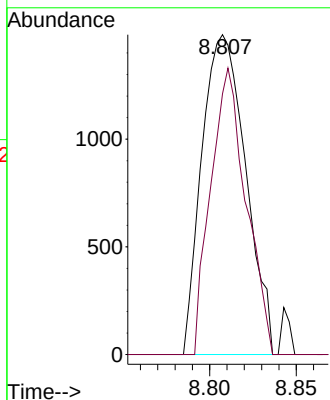
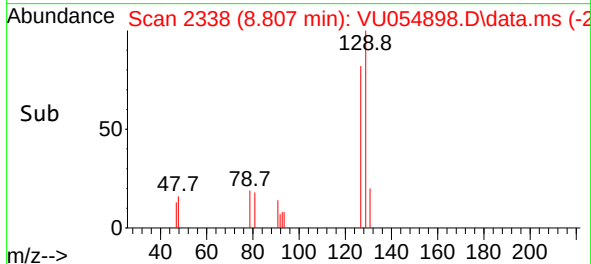
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



Tgt Ion:129 Resp: 261  
Ion Ratio Lower Upper  
129 100  
127 72.1 61.4 92.0

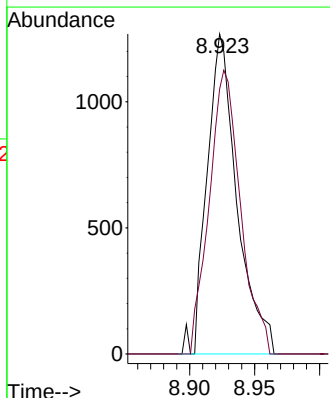
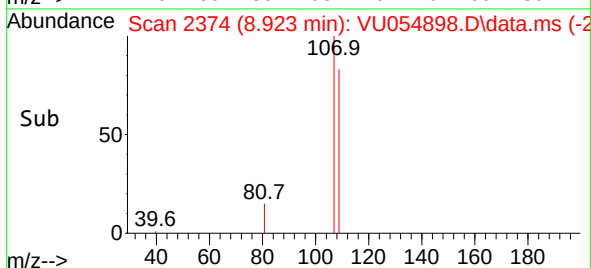
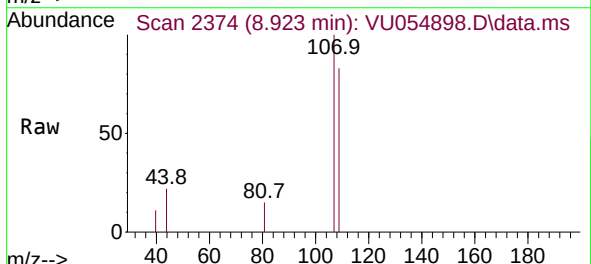
Manual Integrations  
APPROVED

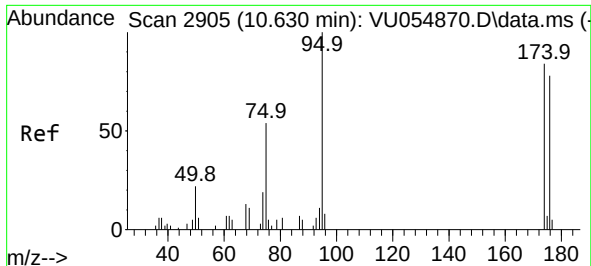
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#56  
1,2-Dibromoethane  
Concen: 0.475 ug/l  
RT: 8.923 min Scan# 2374  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

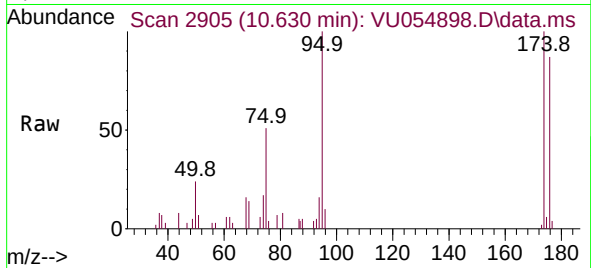
Tgt Ion:107 Resp: 2035  
Ion Ratio Lower Upper  
107 100  
109 92.7 0.0 185.4





#57  
4-Bromofluorobenzene  
Concen: 1.024 ug/l  
RT: 10.630 min Scan# 2905  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

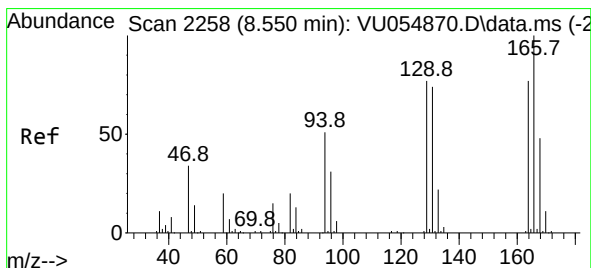
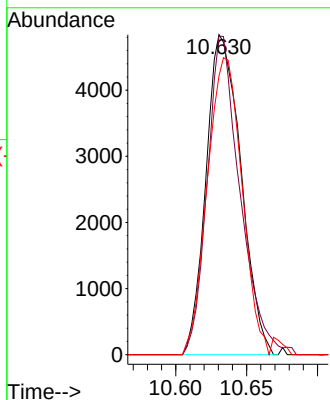
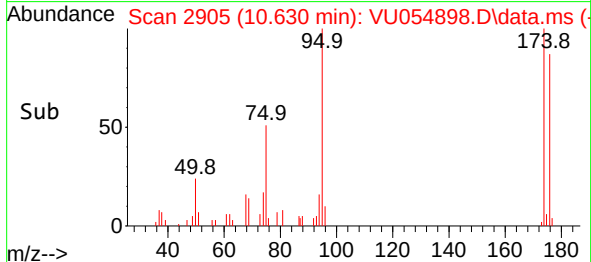
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



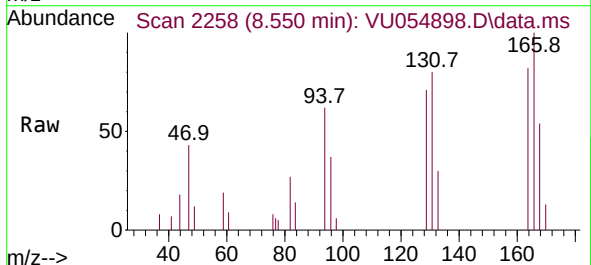
Tgt Ion: 95 Resp: 827  
Ion Ratio Lower Upper  
95 100  
174 93.8 79.3 118.9  
176 92.0 71.5 107.3

Manual Integrations  
APPROVED

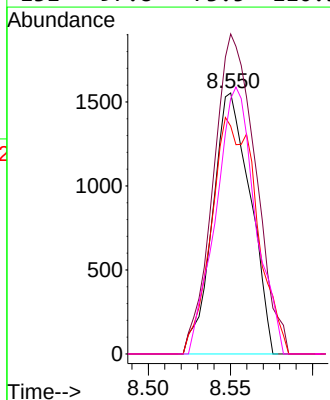
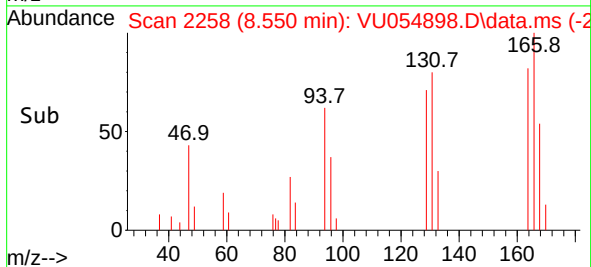
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



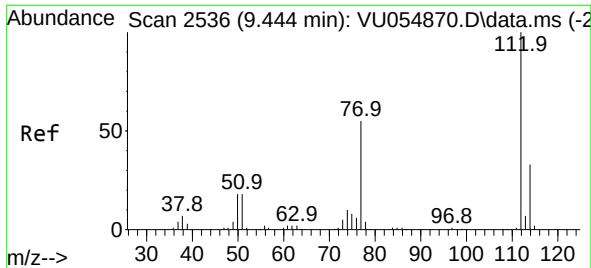
#58  
Tetrachloroethene  
Concen: 0.439 ug/l  
RT: 8.550 min Scan# 2258  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



Tgt Ion:164 Resp: 2478  
Ion Ratio Lower Upper  
164 100  
166 122.6 100.4 150.6  
129 87.3 71.9 107.9  
131 97.8 73.5 110.3

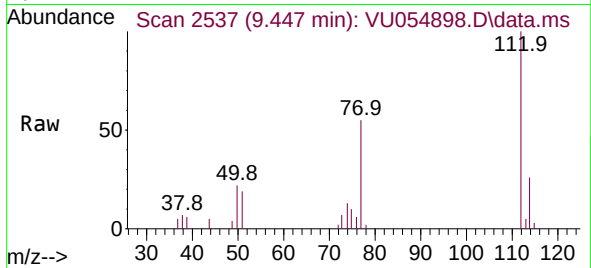






#59  
Chlorobenzene  
Concen: 0.452 ug/l  
RT: 9.447 min Scan# 2536  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

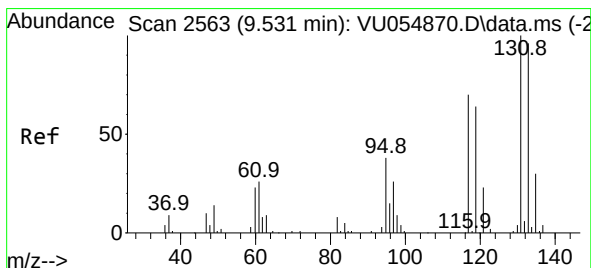
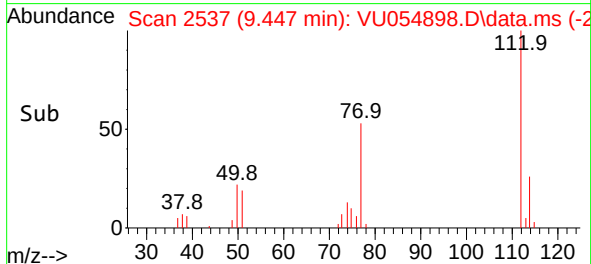
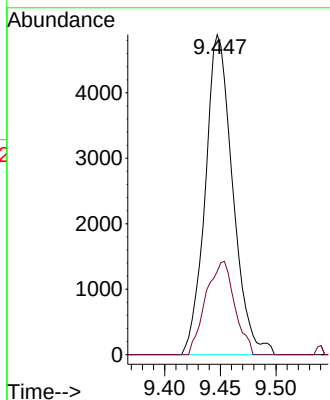
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



Tgt Ion:112 Resp: 839  
Ion Ratio Lower Upper  
112 100  
114 26.0 25.0 37.6

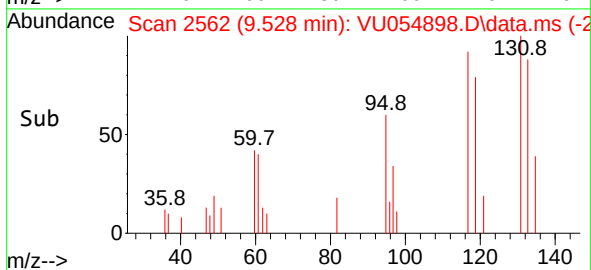
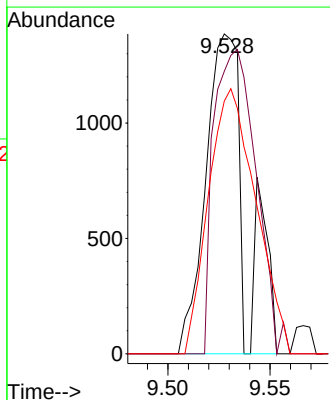
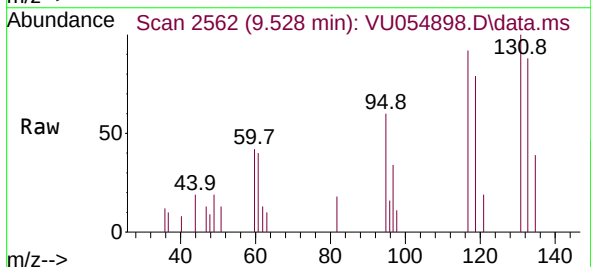
Manual Integrations  
APPROVED

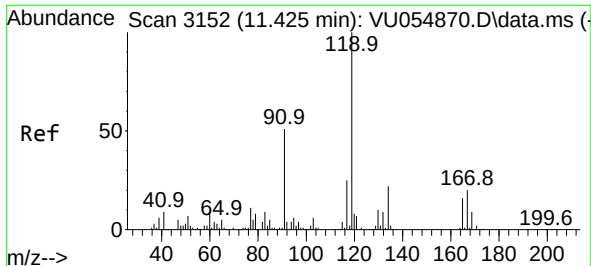
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#60  
1,1,1,2-Tetrachloroethane  
Concen: 0.285 ug/l m  
RT: 9.528 min Scan# 2562  
Delta R.T. -0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

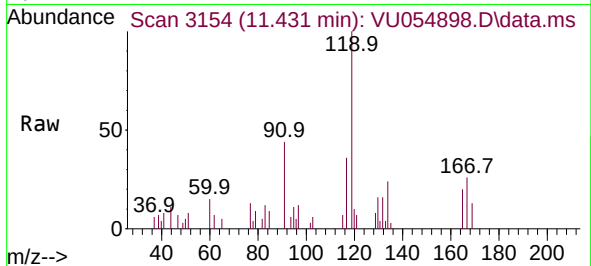
Tgt Ion:131 Resp: 1866  
Ion Ratio Lower Upper  
131 100  
133 101.8 74.2 111.4  
119 99.5 51.0 76.4#





#61  
Pentachloroethane  
Concen: 0.419 ug/l  
RT: 11.431 min Scan# 3152  
Delta R.T. 0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

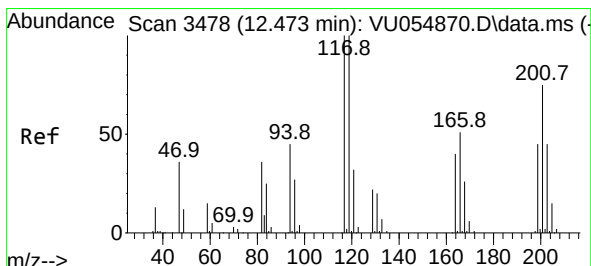
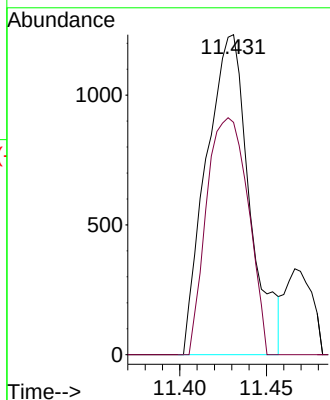
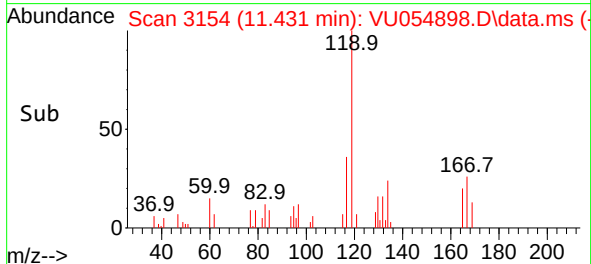
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



Tgt Ion:117 Resp: 214  
Ion Ratio Lower Upper  
117 100  
167 71.1 65.3 97.9

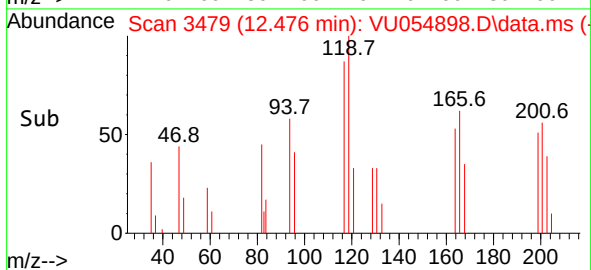
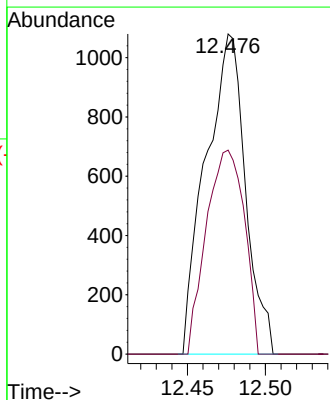
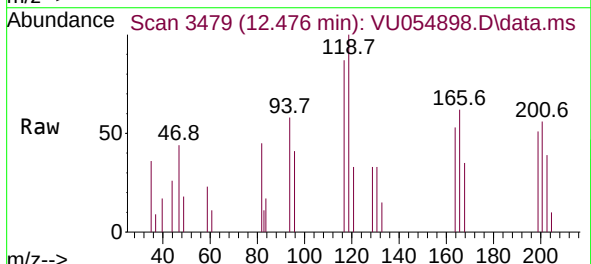
Manual Integrations  
APPROVED

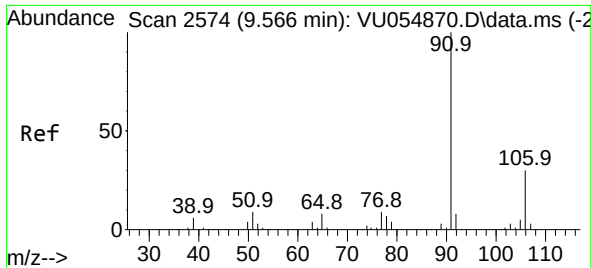
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#62  
Hexachloroethane  
Concen: 0.363 ug/l  
RT: 12.476 min Scan# 3479  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion:117 Resp: 1912  
Ion Ratio Lower Upper  
117 100  
201 61.1 56.1 84.1





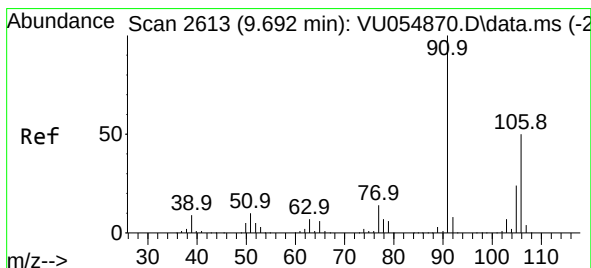
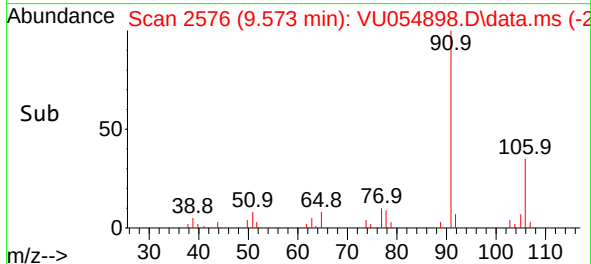
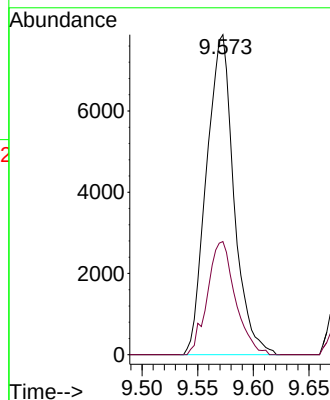
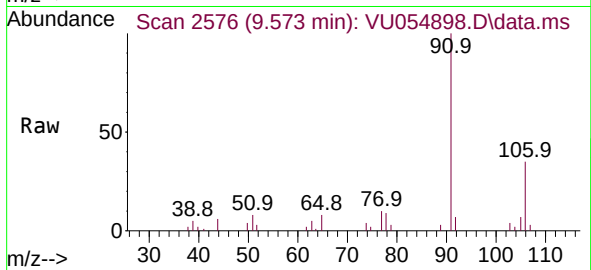
#63  
Ethyl Benzene  
Concen: 0.432 ug/l  
RT: 9.573 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 91 Resp: 1346  
Ion Ratio Lower Upper  
91 100  
106 35.4 24.2 36.2

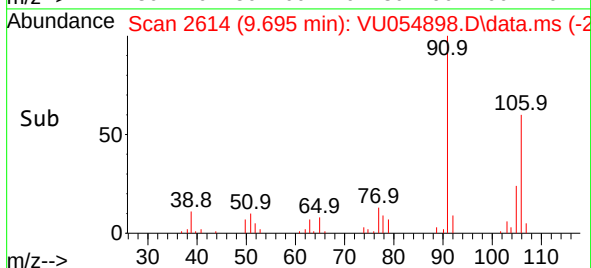
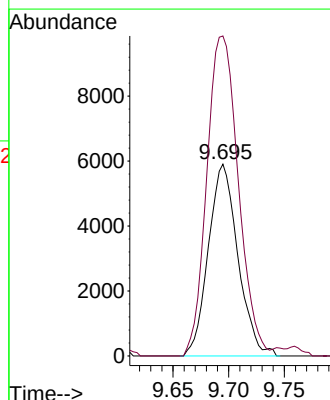
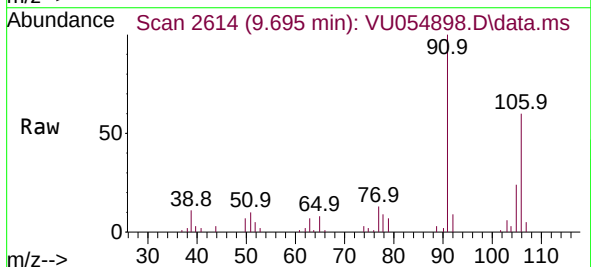
Manual Integrations  
APPROVED

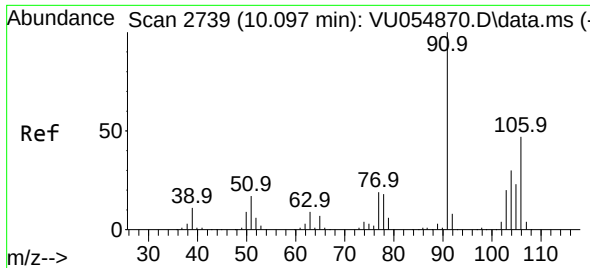
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#64  
m/p-Xylenes  
Concen: 0.934 ug/l  
RT: 9.695 min Scan# 2614  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Tgt Ion:106 Resp: 10891  
Ion Ratio Lower Upper  
106 100  
91 178.1 158.8 238.2





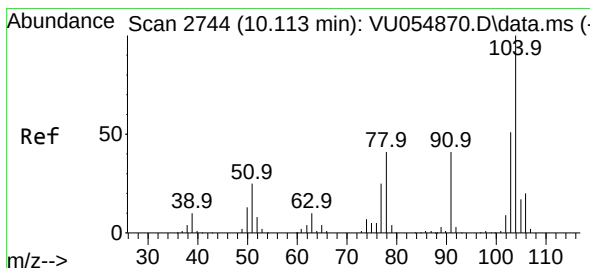
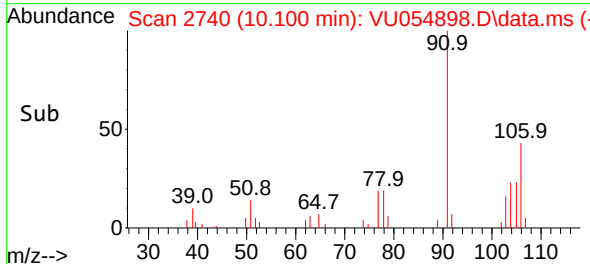
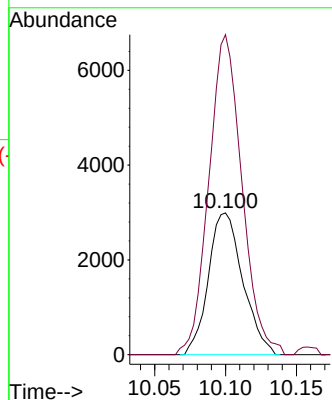
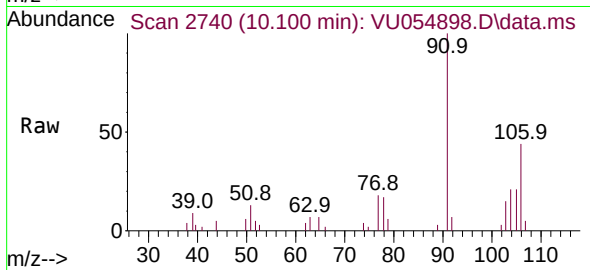
#65  
o-Xylene  
Concen: 0.423 ug/l  
RT: 10.100 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion:106 Resp: 506  
Ion Ratio Lower Upper  
106 100  
91 216.5 108.9 326.8

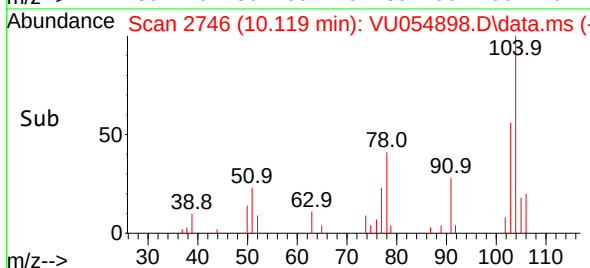
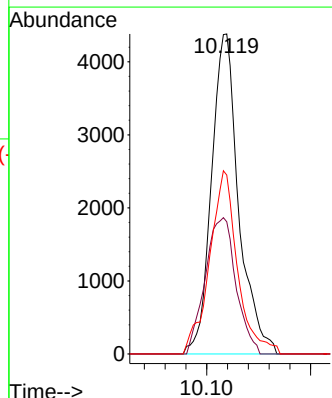
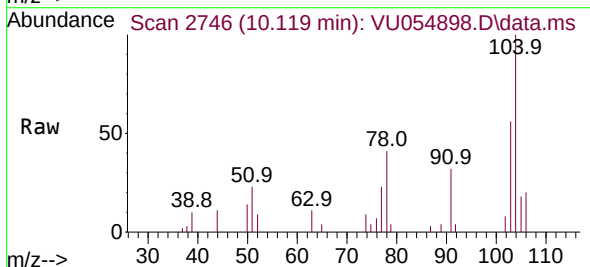
Manual Integrations  
APPROVED

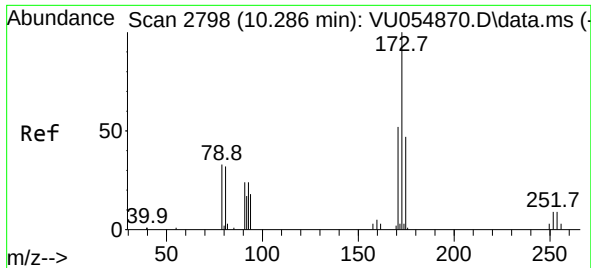
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#66  
Styrene  
Concen: 0.416 ug/l  
RT: 10.119 min Scan# 2746  
Delta R.T. 0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

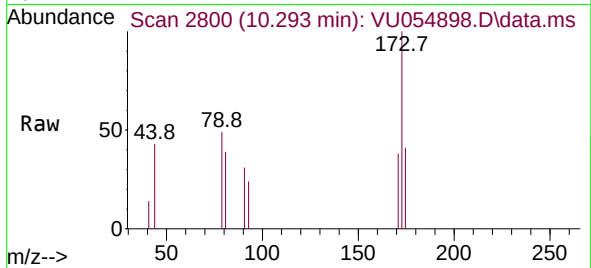
Tgt Ion:104 Resp: 7973  
Ion Ratio Lower Upper  
104 100  
78 48.1 37.5 56.3  
103 58.7 45.2 67.8





#67  
Bromoform  
Concen: 0.452 ug/l  
RT: 10.293 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

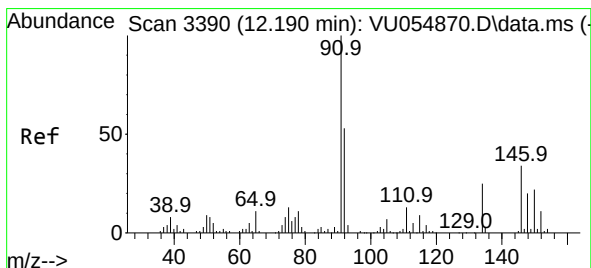
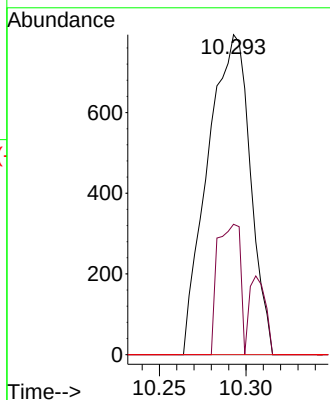
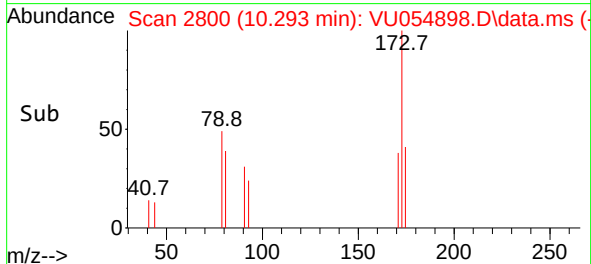
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



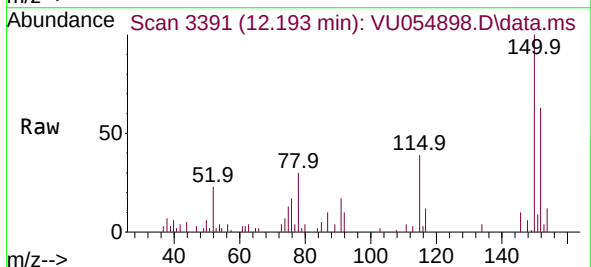
Tgt Ion:173 Resp: 135  
Ion Ratio Lower Upper  
173 100  
175 21.7 39.0 58.6  
254 0.0 7.4 11.0

Manual Integrations  
APPROVED

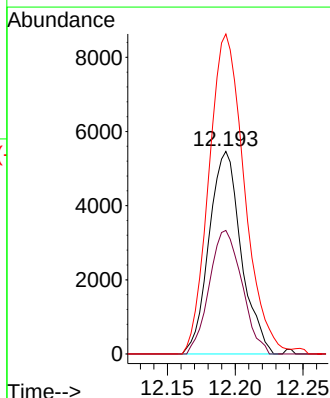
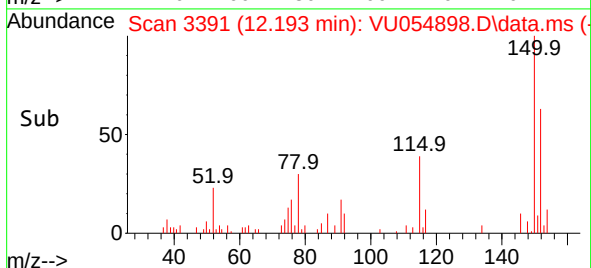
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023

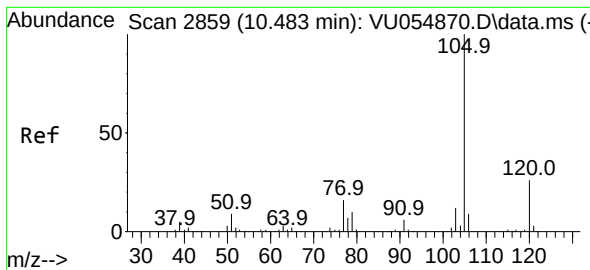


#68  
1,2-Dichlorobenzene-d4  
Concen: 0.984 ug/l  
RT: 12.193 min Scan# 3391  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



Tgt Ion:152 Resp: 8989  
Ion Ratio Lower Upper  
152 100  
115 62.0 0.0 234.8  
150 174.8 0.0 598.2





#69

Isopropylbenzene

Concen: 0.429 ug/l

RT: 10.483 min Scan# 2859

Delta R.T. -0.000 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK

Tgt Ion:105 Resp: 13790

Ion Ratio Lower Upper

105 100

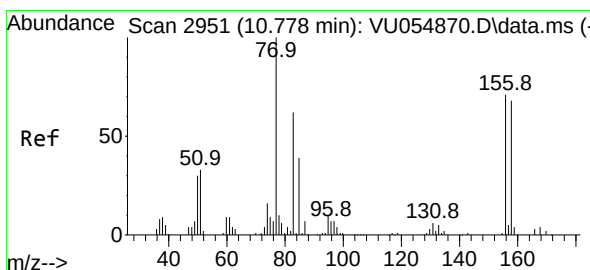
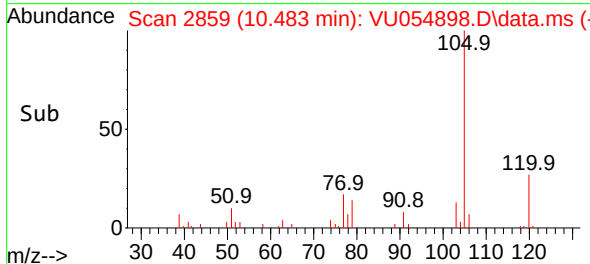
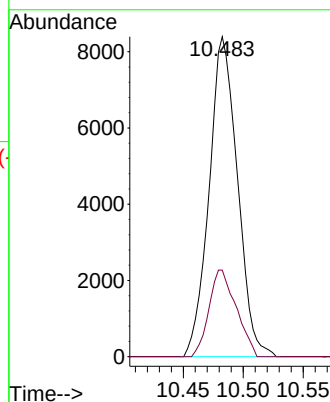
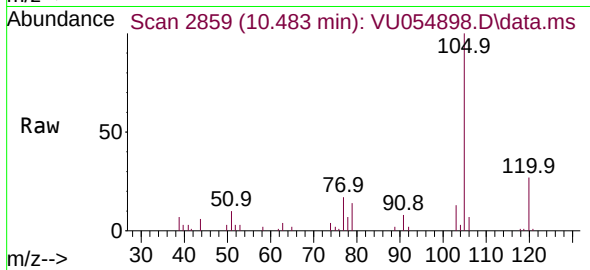
120 26.0 12.6 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#70

1,1,2,2-Tetrachloroethane

Concen: 0.442 ug/l

RT: 10.778 min Scan# 2951

Delta R.T. -0.000 min

Lab File: VU054898.D

Acq: 27 Jul 2023 16:53

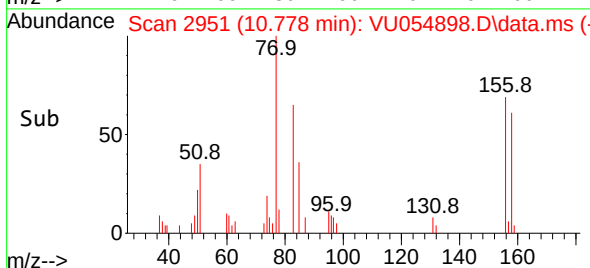
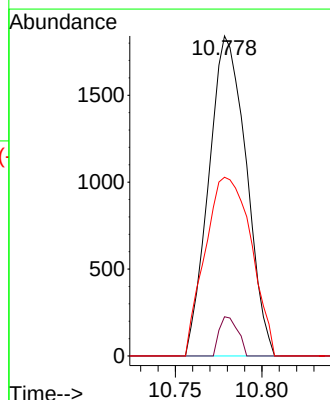
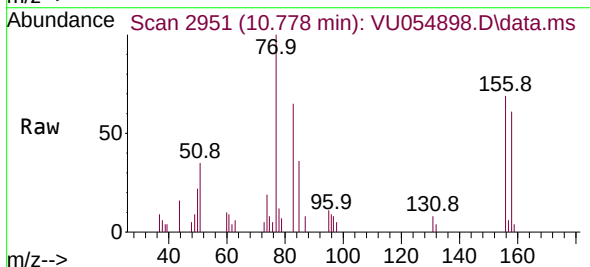
Tgt Ion: 83 Resp: 2763

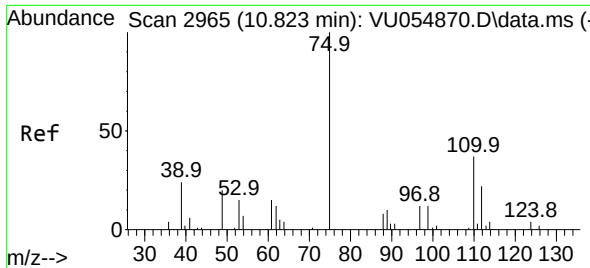
Ion Ratio Lower Upper

83 100

131 6.1 7.5 11.3#

85 68.9 53.0 79.6





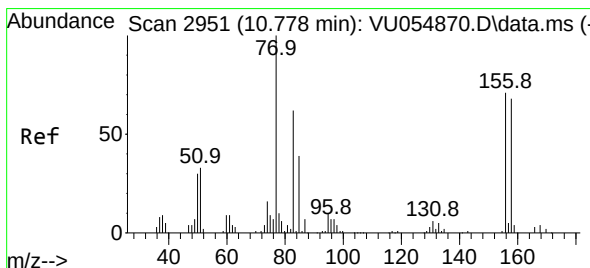
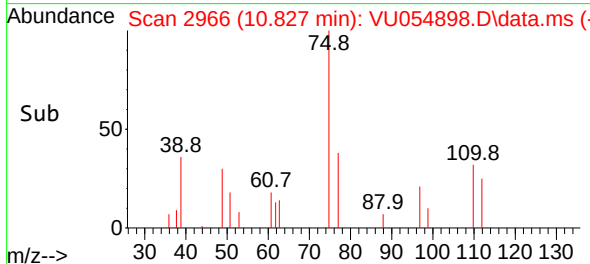
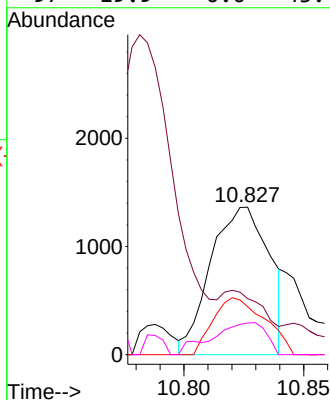
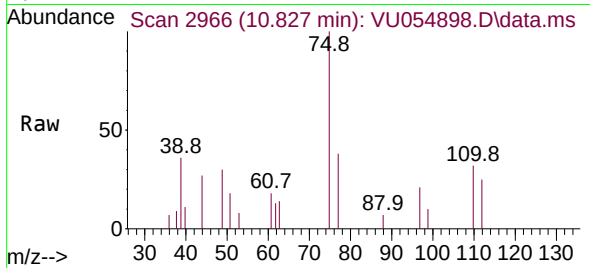
#71  
1,2,3-Trichloropropane  
Concen: 0.518 ug/l m  
RT: 10.827 min Scan# 2965  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion: 75 Resp: 2307  
Ion Ratio Lower Upper  
75 100  
77 30.3 0.0 0.0  
110 34.3 0.0 80.8  
97 19.9 0.0 43.4

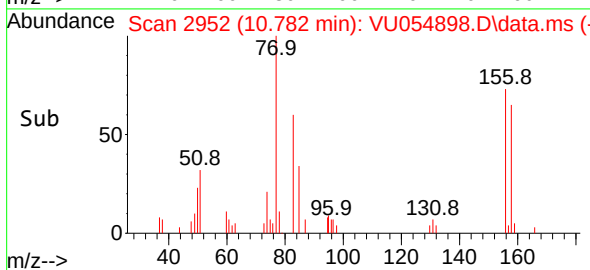
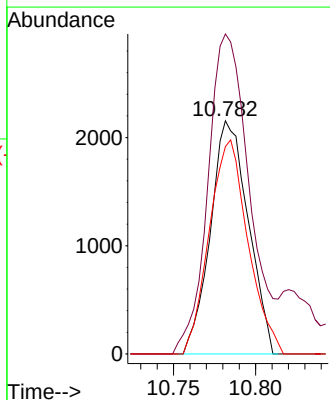
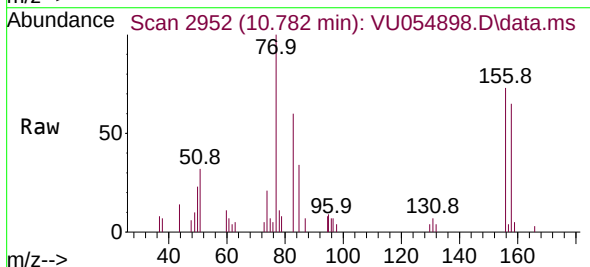
Manual Integrations  
APPROVED

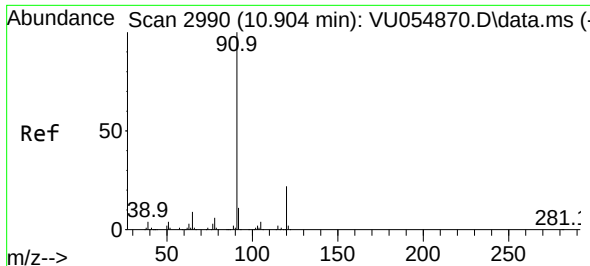
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#72  
Bromobenzene  
Concen: 0.482 ug/l  
RT: 10.782 min Scan# 2952  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

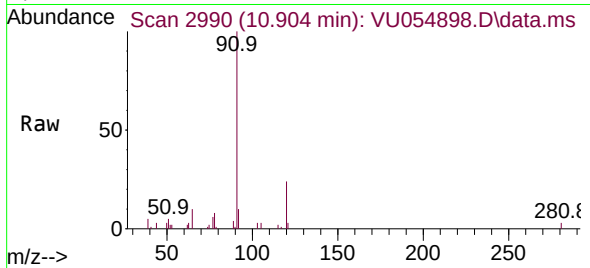
Tgt Ion:156 Resp: 3449  
Ion Ratio Lower Upper  
156 100  
77 151.5 0.0 293.2  
158 94.0 0.0 189.8





#73  
n-propylbenzene  
Concen: 0.415 ug/l  
RT: 10.904 min Scan# 2990  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

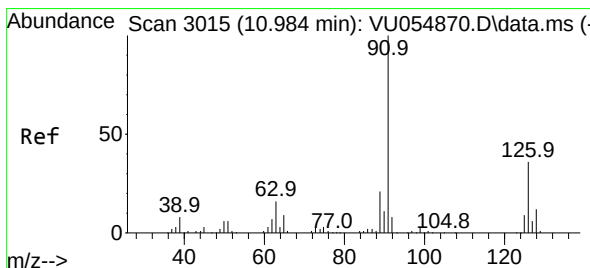
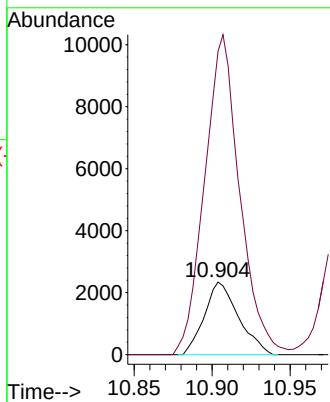
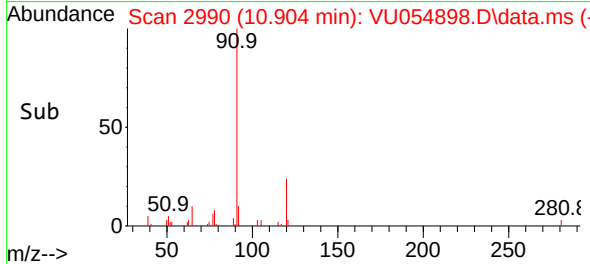
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



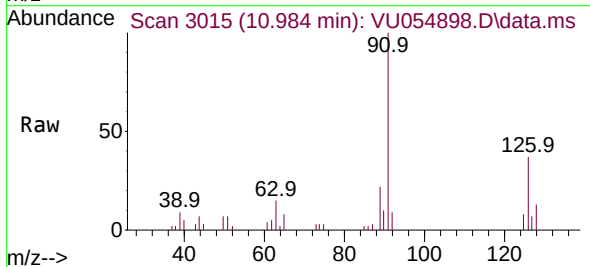
Tgt Ion:120 Resp: 357  
Ion Ratio Lower Upper  
120 100  
91 452.5 361.8 542.6

Manual Integrations  
APPROVED

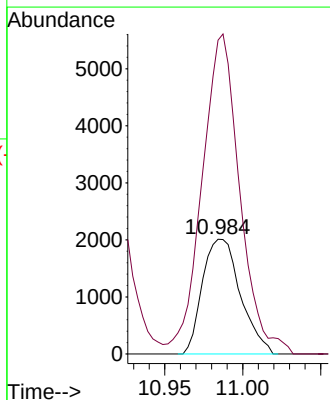
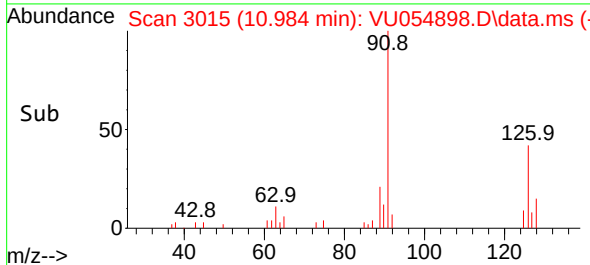
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



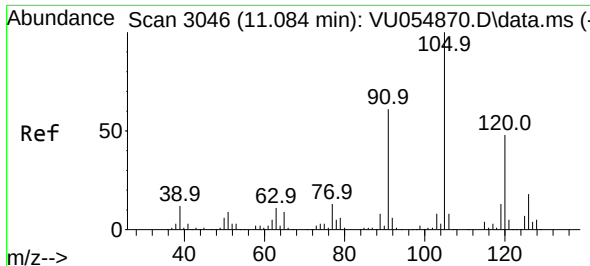
#74  
2-Chlorotoluene  
Concen: 0.458 ug/l  
RT: 10.984 min Scan# 3015  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



Tgt Ion:126 Resp: 3408  
Ion Ratio Lower Upper  
126 100  
91 277.0 0.0 561.4

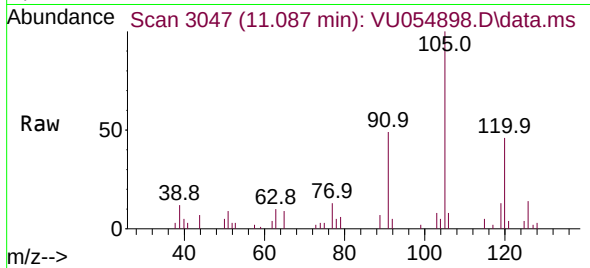






#75  
1,3,5-Trimethylbenzene  
Concen: 0.447 ug/l  
RT: 11.087 min Scan# 3046  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

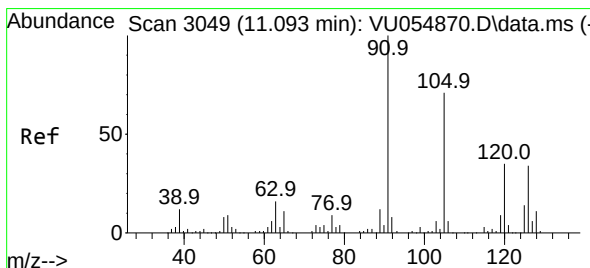
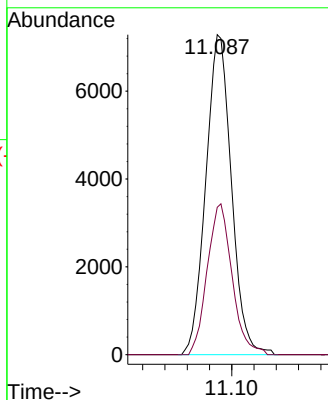
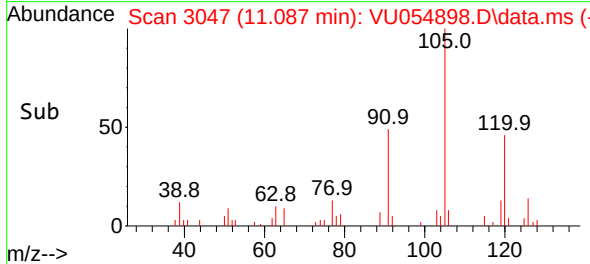
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



Tgt Ion:105 Resp: 1163  
Ion Ratio Lower Upper  
105 100  
120 45.7 39.0 58.4

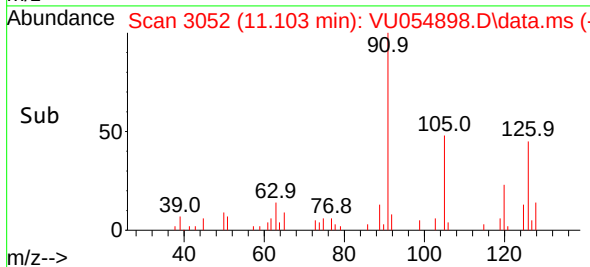
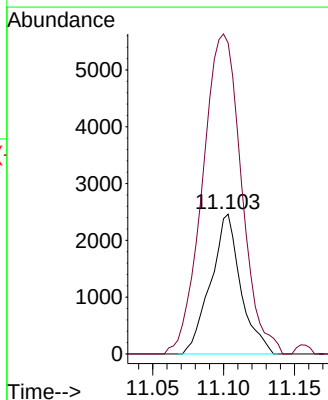
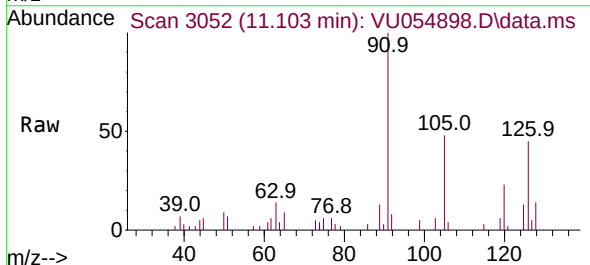
Manual Integrations  
APPROVED

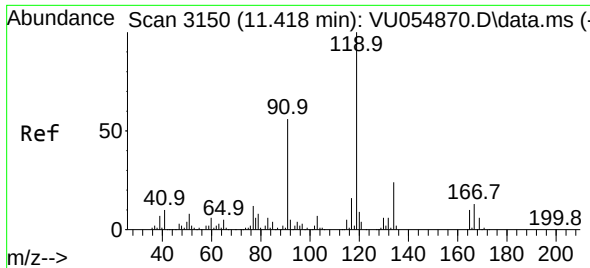
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#76  
4-Chlorotoluene  
Concen: 0.469 ug/l  
RT: 11.103 min Scan# 3052  
Delta R.T. 0.010 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

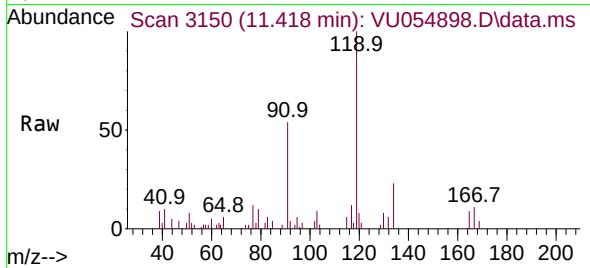
Tgt Ion:126 Resp: 3627  
Ion Ratio Lower Upper  
126 100  
91 296.4 0.0 623.4





#77  
 tert-Butylbenzene  
 Concen: 0.425 ug/l  
 RT: 11.418 min Scan# 3150  
 Delta R.T. -0.000 min  
 Lab File: VU054898.D  
 Acq: 27 Jul 2023 16:53

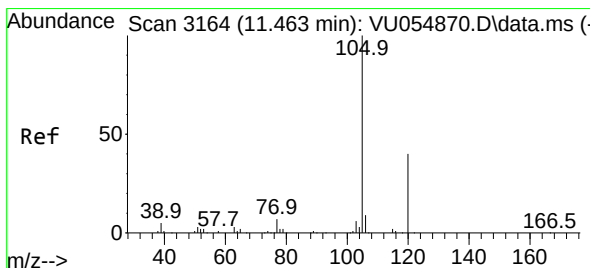
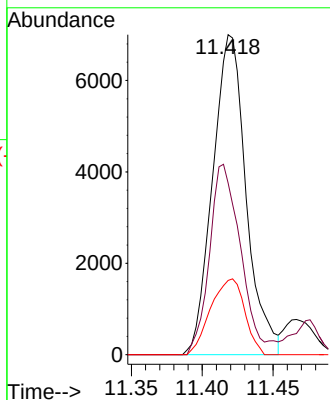
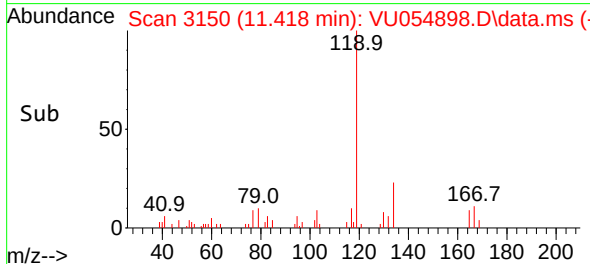
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK



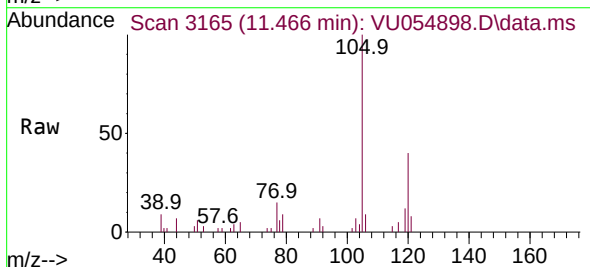
Tgt Ion:119 Resp: 1150  
 Ion Ratio Lower Upper  
 119 100  
 91 55.1 27.7 83.1  
 134 24.1 18.6 27.8

Manual Integrations  
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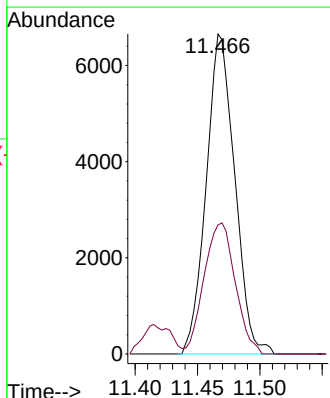
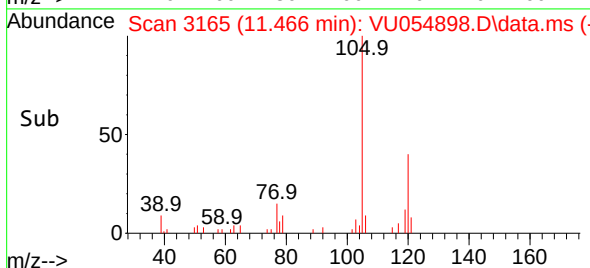
Reviewed By :John Carlone 07/28/2023  
 Supervised By :Mahesh Dadoda 07/31/2023

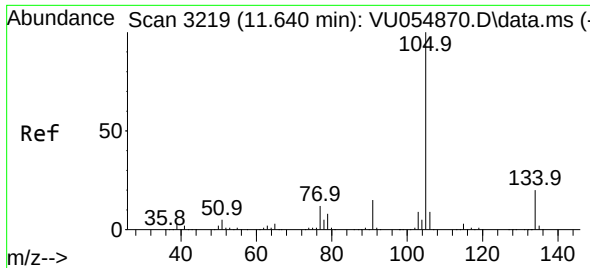


#78  
 1,2,4-Trimethylbenzene  
 Concen: 0.398 ug/l  
 RT: 11.466 min Scan# 3165  
 Delta R.T. 0.003 min  
 Lab File: VU054898.D  
 Acq: 27 Jul 2023 16:53



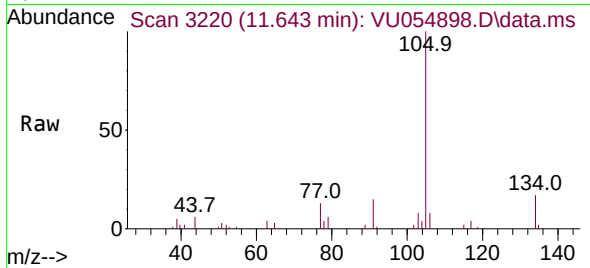
Tgt Ion:105 Resp: 10598  
 Ion Ratio Lower Upper  
 105 100  
 120 44.8 22.4 67.3





#79  
 sec-Butylbenzene  
 Concen: 0.396 ug/l  
 RT: 11.643 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: VU054898.D  
 Acq: 27 Jul 2023 16:53

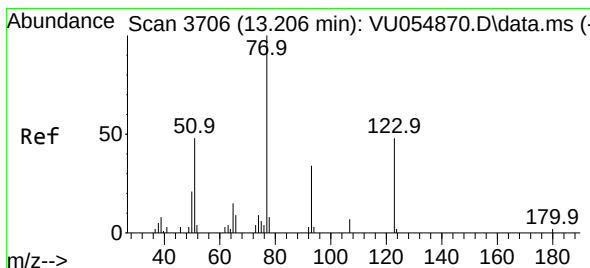
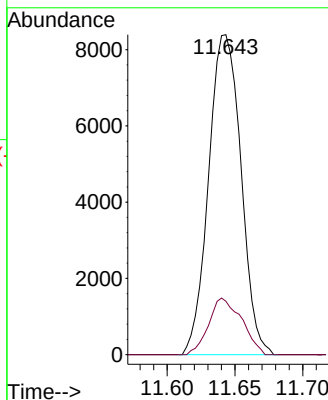
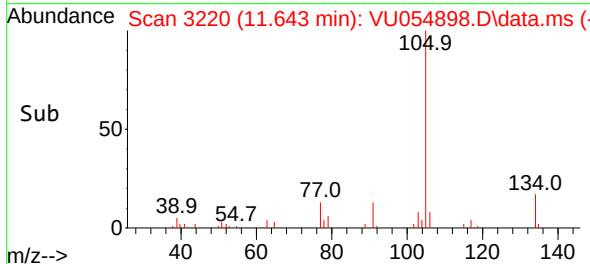
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK



Tgt Ion:105 Resp: 1393  
 Ion Ratio Lower Upper  
 105 100  
 134 18.1 15.7 23.5

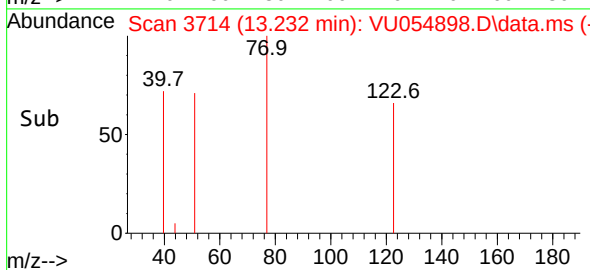
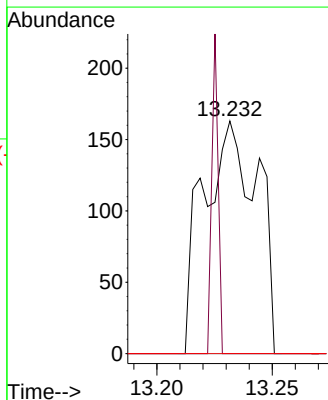
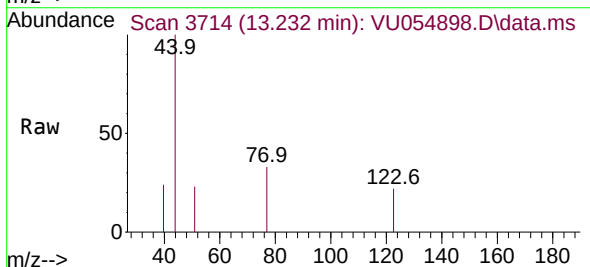
Manual Integrations  
 APPROVED

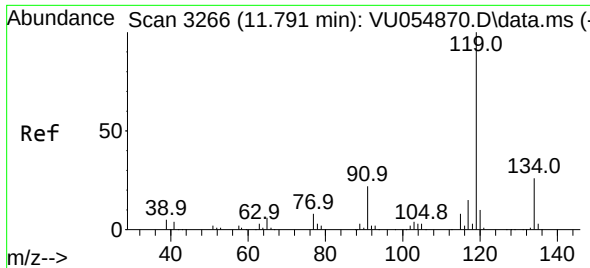
Reviewed By :John Carlone 07/28/2023  
 Supervised By :Mahesh Dadoda 07/31/2023



#80  
 Nitrobenzene  
 Concen: 1.612 ug/l m  
 RT: 13.232 min Scan# 3714  
 Delta R.T. 0.026 min  
 Lab File: VU054898.D  
 Acq: 27 Jul 2023 16:53

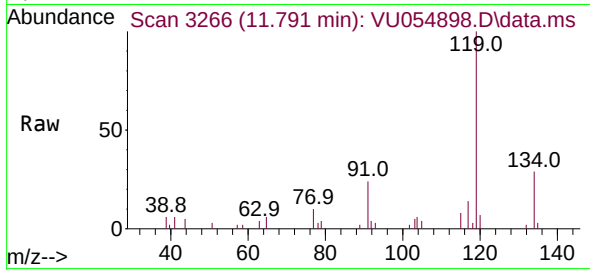
Tgt Ion: 77 Resp: 265  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 20.2 71.8#  
 65 0.0 11.7 14.9#





#81  
p-Isopropyltoluene  
Concen: 0.375 ug/l  
RT: 11.791 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

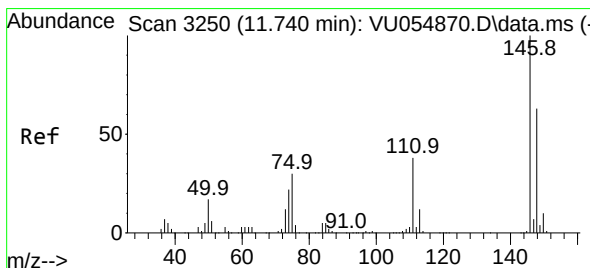
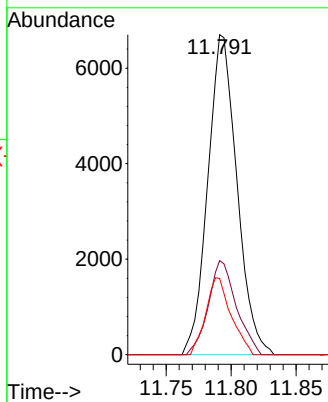
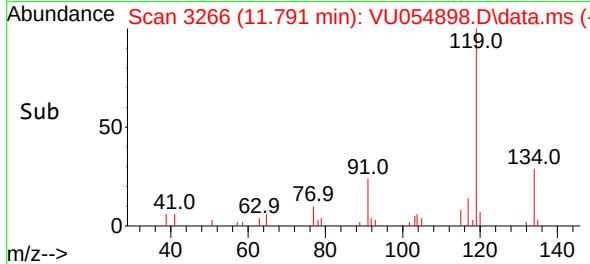
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



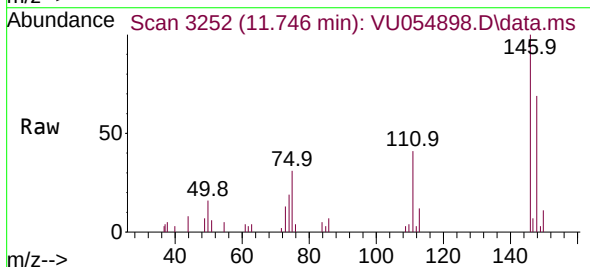
Tgt Ion:119 Resp: 10428  
Ion Ratio Lower Upper  
119 100  
134 28.3 20.6 31.0  
91 20.8 18.2 27.4

Manual Integrations  
APPROVED

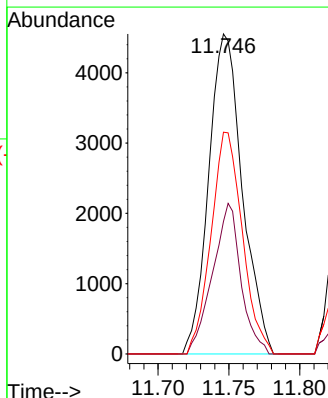
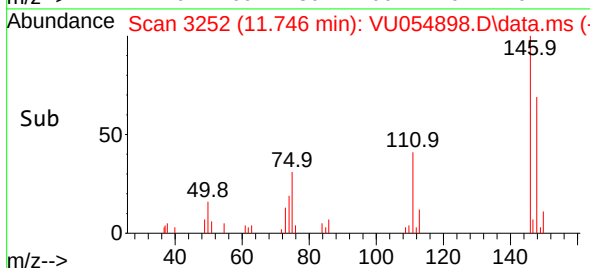
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023

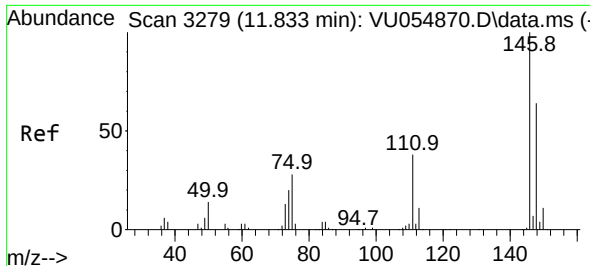


#82  
1,3-Dichlorobenzene  
Concen: 0.494 ug/l  
RT: 11.746 min Scan# 3252  
Delta R.T. 0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



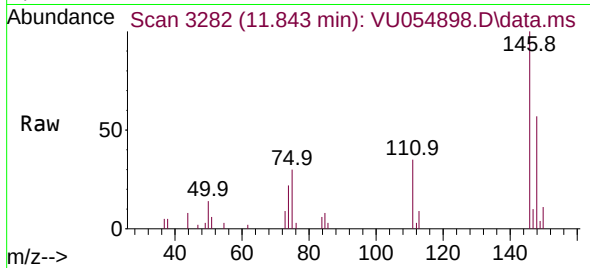
Tgt Ion:146 Resp: 7527  
Ion Ratio Lower Upper  
146 100  
111 39.7 30.5 45.7  
148 64.5 51.0 76.6





#83  
1,4-Dichlorobenzene  
Concen: 0.511 ug/l  
RT: 11.843 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

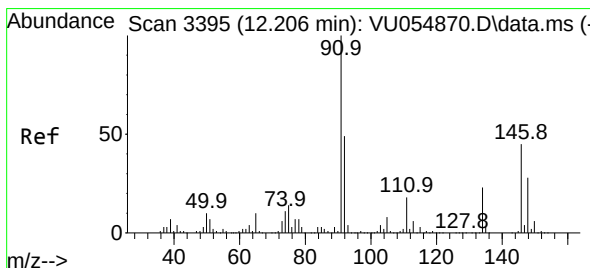
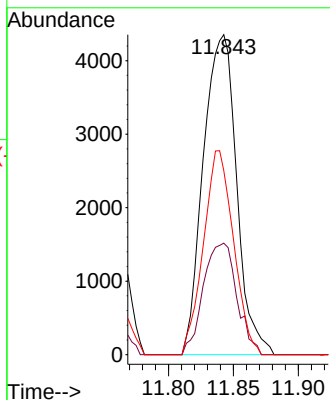
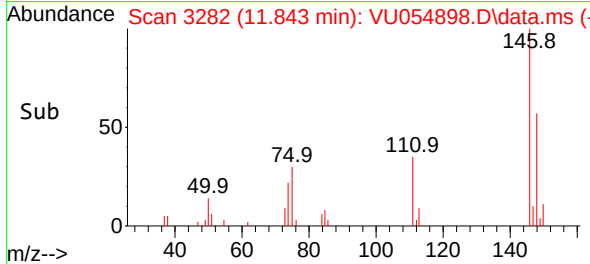
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



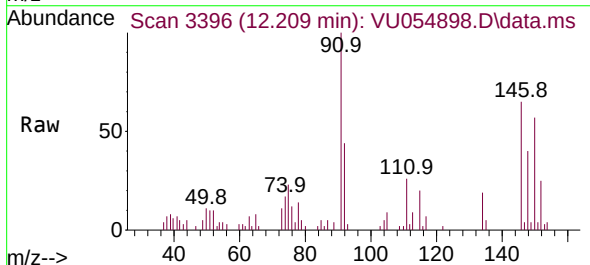
Tgt Ion:146 Resp: 7762  
Ion Ratio Lower Upper  
146 100  
111 35.0 29.5 44.3  
148 57.6 51.2 76.8

Manual Integrations  
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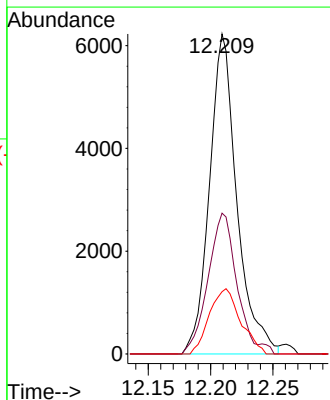
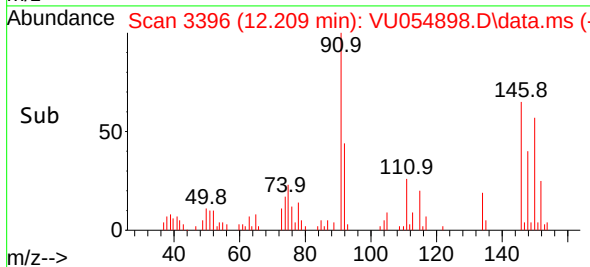
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023

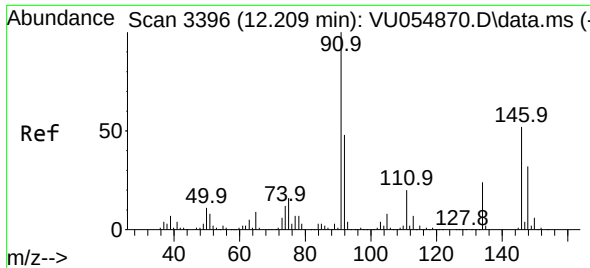


#84  
n-Butylbenzene  
Concen: 0.382 ug/l  
RT: 12.209 min Scan# 3396  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



Tgt Ion: 91 Resp: 9531  
Ion Ratio Lower Upper  
91 100  
92 46.6 39.8 59.8  
134 23.2 20.2 30.4





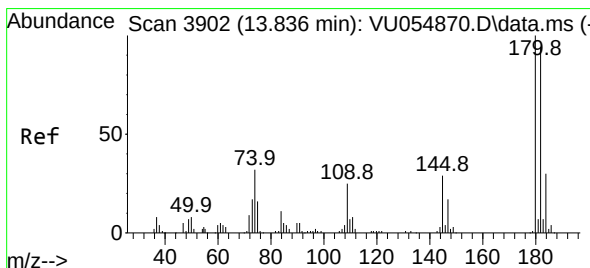
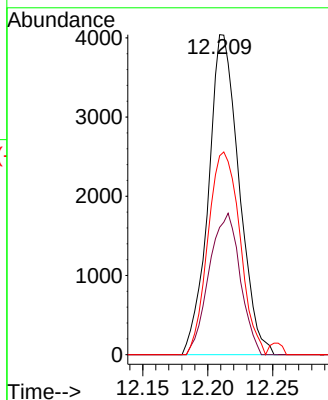
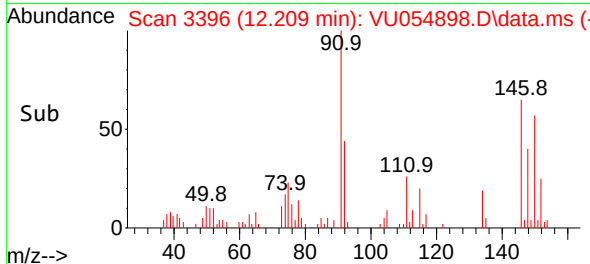
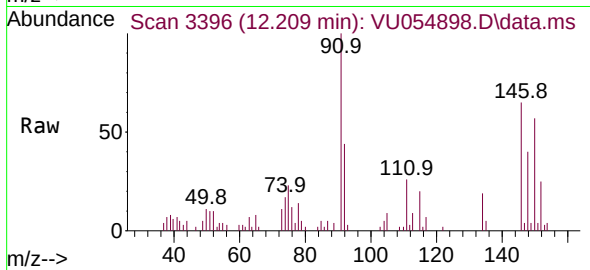
#85  
1,2-Dichlorobenzene  
Concen: 0.453 ug/l  
RT: 12.209 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK

Tgt Ion:146 Resp: 662  
Ion Ratio Lower Upper  
146 100  
111 44.6 19.8 59.4  
148 66.0 31.8 95.3

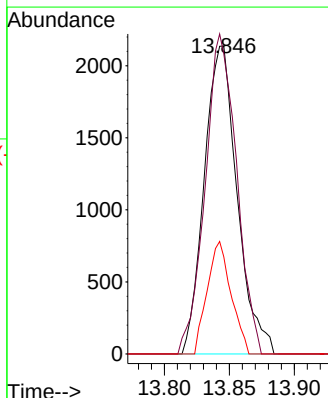
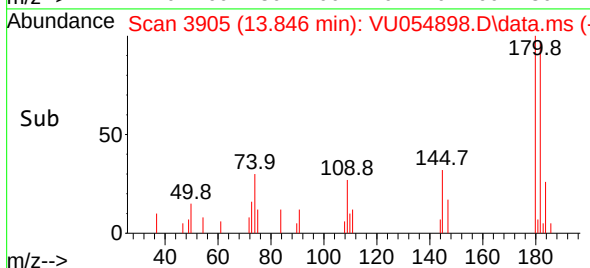
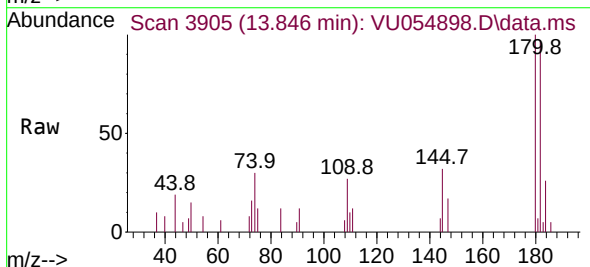
Manual Integrations  
APPROVED

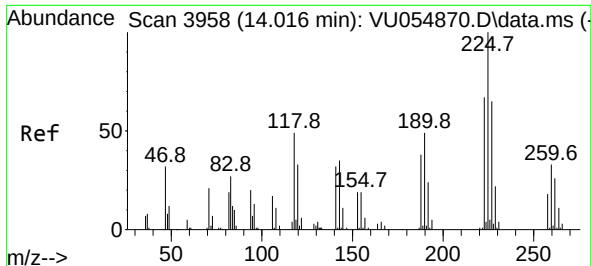
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023



#87  
1,2,4-Trichlorobenzene  
Concen: 0.405 ug/l  
RT: 13.846 min Scan# 3905  
Delta R.T. 0.010 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

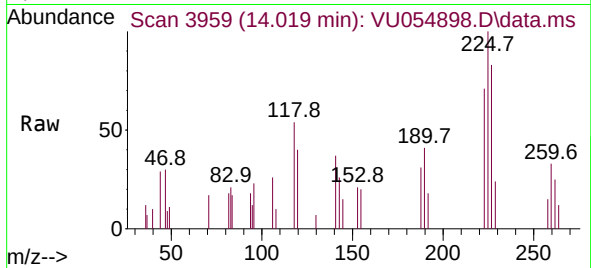
Tgt Ion:180 Resp: 3772  
Ion Ratio Lower Upper  
180 100  
182 98.9 77.0 115.6  
145 26.3 23.4 35.0





#88  
Hexachlorobutadiene  
Concen: 0.437 ug/l  
RT: 14.019 min Scan# 3958  
Delta R.T. 0.003 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53

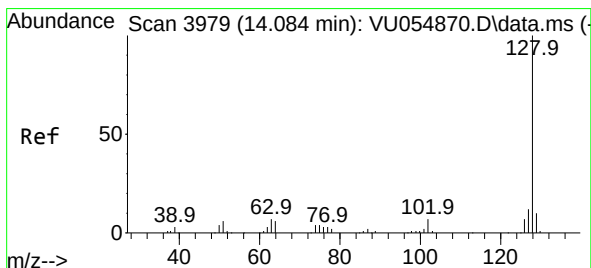
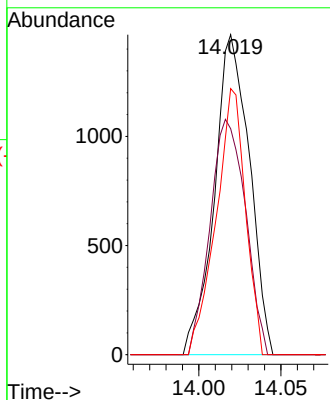
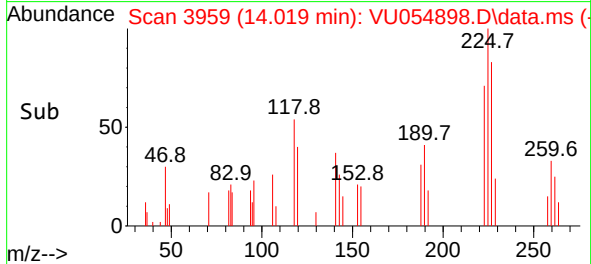
Instrument :  
MSVOA\_U  
ClientSampleId :  
RL-CHECK



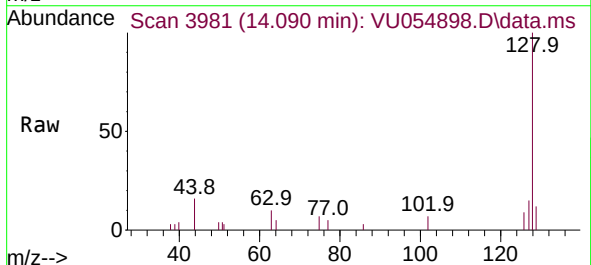
Tgt Ion:225 Resp: 217  
Ion Ratio Lower Upper  
225 100  
223 74.5 50.6 76.0  
227 69.8 50.7 76.1

Manual Integrations  
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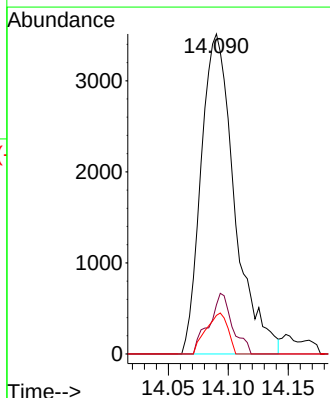
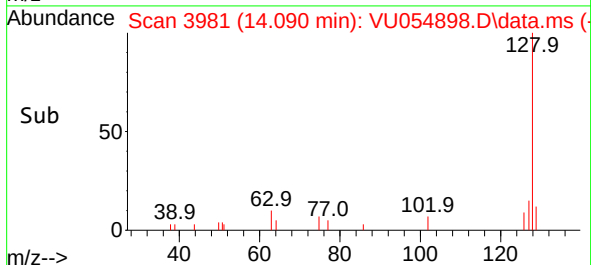
Reviewed By :John Carlone 07/28/2023  
Supervised By :Mahesh Dadoda 07/31/2023

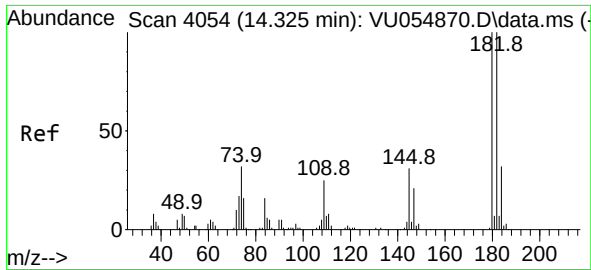


#89  
Naphthalene  
Concen: 0.473 ug/l  
RT: 14.090 min Scan# 3981  
Delta R.T. 0.006 min  
Lab File: VU054898.D  
Acq: 27 Jul 2023 16:53



Tgt Ion:128 Resp: 6825  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 15.8  
129 8.3 8.7 13.1





#90

1,2,3-Trichlorobenzene

Concen: 0.576 ug/l

RT: 14.331 min Scan# 4056

Delta R.T. 0.006 min

Lab File: VU054898.D

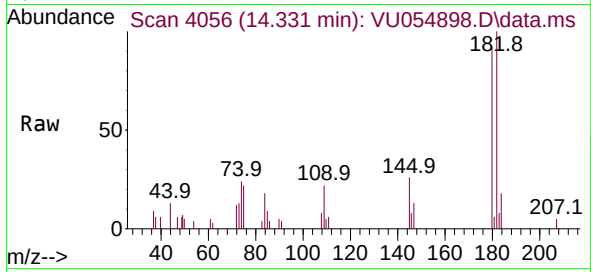
Acq: 27 Jul 2023 16:53

Instrument :

MSVOA\_U

ClientSampleId :

RL-CHECK



Tgt Ion:180 Resp: 476

Ion Ratio Lower Upper

180 100

182 99.9 76.0 114.0

145 26.6 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023

