

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062923\  
 Data File : VU054701.D  
 Acq On : 29 Jun 2023 17:37  
 Operator : MD/SY  
 Sample : 03477-09  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 HOA47

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 06/30/2023  
 Supervised By :Mahesh Dadoda 06/30/2023

Quant Time: Jun 30 05:20:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR060723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jun 23 23:55:46 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response  | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|-----------|----------|--------|----------|
| -----                         |        |       |           |          |        |          |
| Internal Standards            |        |       |           |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.329  | 114   | 280634    | 5.000    | ug/L   | 0.08     |
| 28) Chlorobenzene-d5          | 9.435  | 117   | 278950    | 5.000    | ug/L   | 0.02     |
| 58) 1,4-Dichlorobenzene-d4    | 11.814 | 152   | 130682    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |           |          |        |          |
| 4) Vinyl Chloride-d3          | 1.641  | 65    | 83404     | 4.670    | ug/L   | 0.04     |
| Spiked Amount                 | 5.000  | Range | 40 - 130  | Recovery | =      | 93.400%  |
| 7) Chloroethane-d5            | 1.975  | 69    | 73568     | 4.400    | ug/L   | 0.06     |
| Spiked Amount                 | 5.000  | Range | 65 - 130  | Recovery | =      | 88.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.621  | 65    | 38087     | 4.775    | ug/L   | 0.06     |
| Spiked Amount                 | 5.000  | Range | 60 - 125  | Recovery | =      | 95.400%  |
| 20) 2-Butanone-d5             | 4.760  | 46    | 297925    | 59.331   | ug/L   | 0.13     |
| Spiked Amount                 | 50.000 | Range | 40 - 130  | Recovery | =      | 118.660% |
| 24) Chloroform-d              | 5.116  | 84    | 202498    | 5.424    | ug/L   | 0.06     |
| Spiked Amount                 | 5.000  | Range | 70 - 125  | Recovery | =      | 108.400% |
| 26) 1,2-Dichloroethane-d4     | 5.785  | 65    | 79740     | 4.382    | ug/L   | 0.09     |
| Spiked Amount                 | 5.000  | Range | 70 - 130  | Recovery | =      | 87.600%  |
| 32) Benzene-d6                | 5.804  | 84    | 295144    | 3.806    | ug/L   | 0.08     |
| Spiked Amount                 | 5.000  | Range | 70 - 125  | Recovery | =      | 76.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.759  | 67    | 106920    | 4.129    | ug/L   | 0.07     |
| Spiked Amount                 | 5.000  | Range | 60 - 140  | Recovery | =      | 82.600%  |
| 41) Toluene-d8                | 7.936  | 98    | 236991    | 3.444    | ug/L   | 0.04     |
| Spiked Amount                 | 5.000  | Range | 70 - 130  | Recovery | =      | 68.800%# |
| 43) trans-1,3-Dichloroprop... | 8.210  | 79    | 36256     | 4.026    | ug/L   | 0.03     |
| Spiked Amount                 | 5.000  | Range | 55 - 130  | Recovery | =      | 80.600%  |
| 46) 2-Hexanone-d5             | 8.663  | 63    | 206622    | 54.690   | ug/L   | 0.03     |
| Spiked Amount                 | 50.000 | Range | 45 - 130  | Recovery | =      | 109.380% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.762 | 84    | 81662     | 4.229    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120  | Recovery | =      | 84.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.193 | 152   | 96631     | 4.384    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120  | Recovery | =      | 87.600%  |
| Target Compounds              |        |       |           |          |        |          |
|                               |        |       |           |          |        | Qvalue   |
| 3) Chloromethane              | 1.554  | 50    | 5601      | 0.186    | ug/L   | 97       |
| 6) Bromomethane               | 1.914  | 94    | 4174      | 0.246    | ug/L   | 89       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.631  | 101   | 4219      | 0.190    | ug/L # | 48       |
| 12) 1,1-Dichloroethene        | 2.634  | 96    | 966124    | 47.465   | ug/L   | 80       |
| 14) Carbon disulfide          | 2.850  | 76    | 9366      | 0.155    | ug/L # | 84       |
| 16) Methylene chloride        | 3.113  | 84    | 15522     | 0.542    | ug/L   | 82       |
| 18) trans-1,2-Dichloroethene  | 3.419  | 96    | 4771      | 0.227    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.936  | 63    | 425874    | 9.792    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.718  | 96    | 167114    | 6.983    | ug/L   | 90       |
| 25) Chloroform                | 5.139  | 83    | 907883    | 21.174   | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane     | 5.370  | 97    | 964336    | 25.494   | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.586  | 117   | 10990     | 0.337    | ug/L   | 91       |
| 33) Benzene                   | 5.856  | 78    | 50025     | 0.499    | ug/L   | 100      |
| 34) Trichloroethene           | 6.612  | 95    | 6103806   | 230.243  | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane     | 8.431  | 97    | 11039     | 0.640    | ug/L   | 94       |
| 47) Tetrachloroethene         | 8.579  | 164   | 21123937m | 1040.953 | ug/L   |          |
| 54) o-Xylene                  | 10.110 | 106   | 8677      | 0.217    | ug/L   | 87       |
| 57) 1,1,2,2-Tetrachloroethane | 10.788 | 83    | 3745      | 0.171    | ug/L # | 94       |
| 64) 1,3-Dichlorobenzene       | 11.750 | 146   | 49283     | 1.103    | ug/L   | 97       |

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 ClientSampleId :  
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 Response via : Initial Calibration

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|-------------------------|--------|------|----------|-------|-------|----------|
| 65) 1,4-Dichlorobenzene | 11.840 | 146  | 70011    | 1.561 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene | 12.213 | 146  | 268279   | 6.528 | ug/L  | 98       |

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 Dadoda

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

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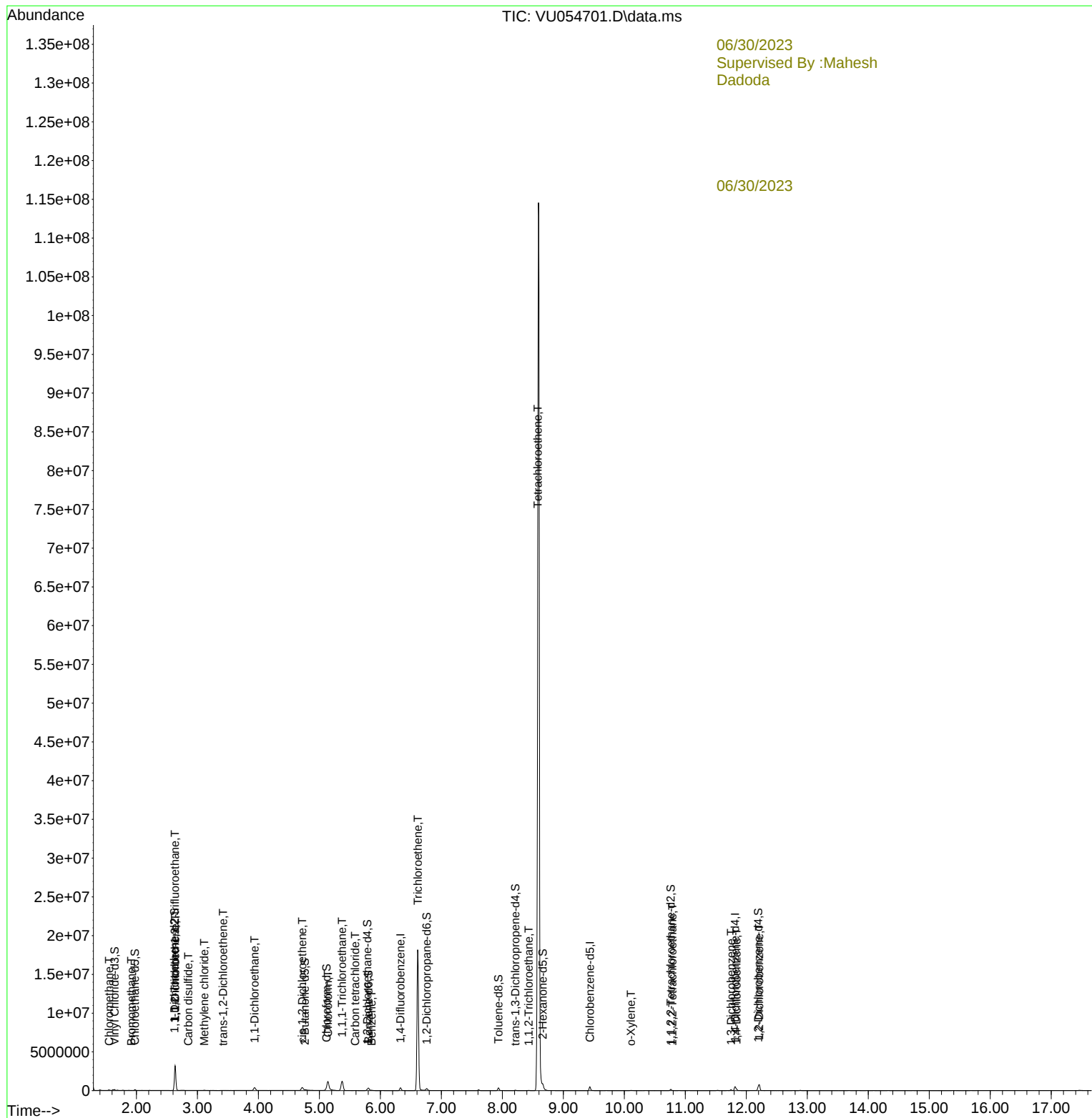
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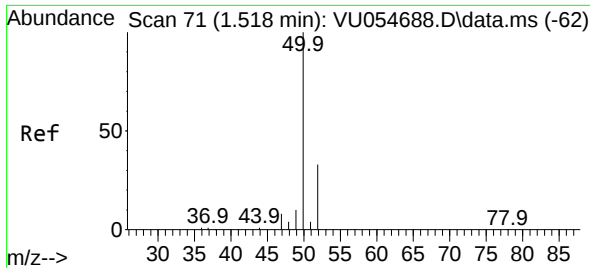
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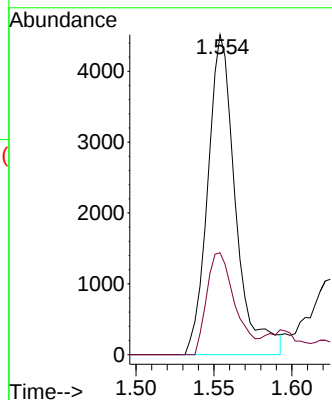
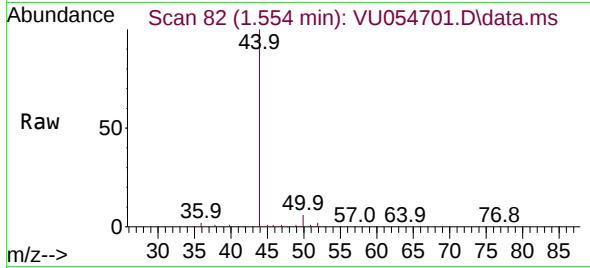
#3  
Chloromethane  
Concen: 0.186 ug/L  
RT: 1.554 min Scan# 81  
Delta R.T. 0.032 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA47

Tgt Ion: 50 Resp: 560  
Ion Ratio Lower Upper  
50 100  
52 31.8 23.4 43.4

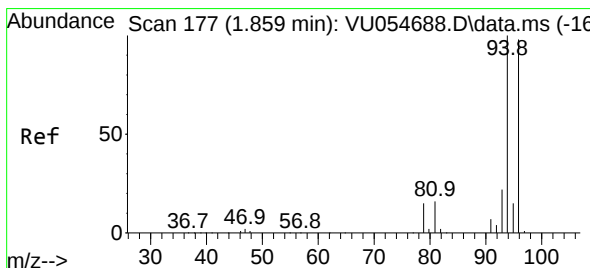
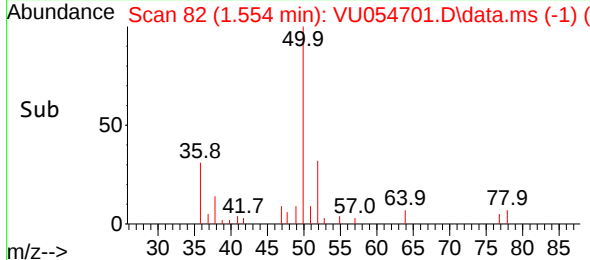
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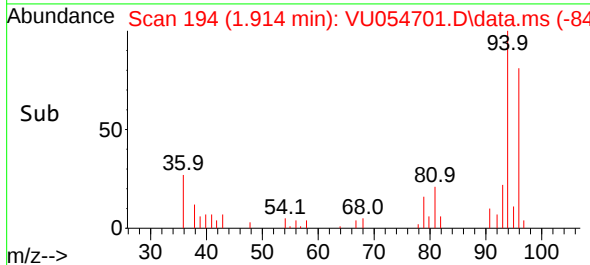
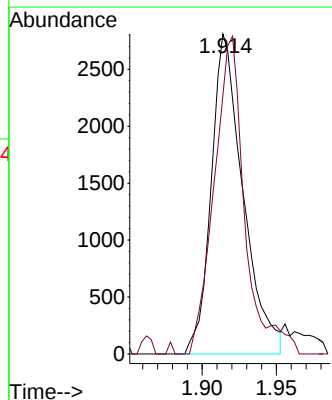
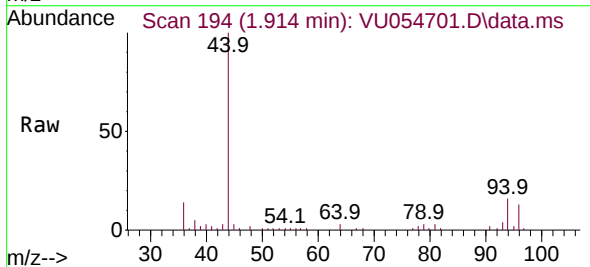
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Dadoda

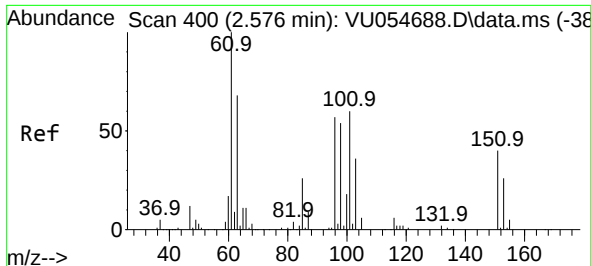
06/30/2023



#6  
Bromomethane  
Concen: 0.246 ug/L  
RT: 1.914 min Scan# 194  
Delta R.T. 0.055 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

Tgt Ion: 94 Resp: 4174  
Ion Ratio Lower Upper  
94 100  
96 80.9 63.6 118.2





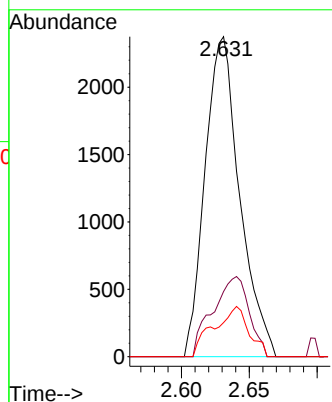
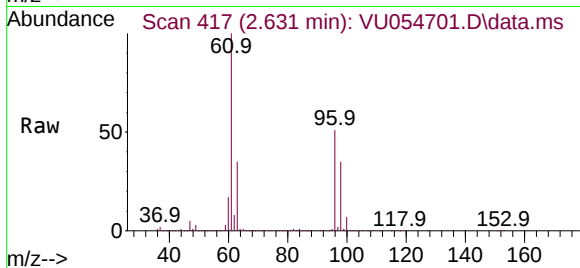
#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.190 ug/L  
RT: 2.631 min Scan# 417  
Delta R.T. 0.052 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA47

Tgt Ion:101 Resp: 4219  
Ion Ratio Lower Upper  
101 100  
85 26.4 34.6 51.8  
151 15.9 57.7 86.5

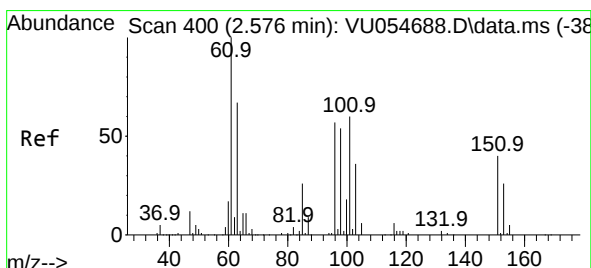
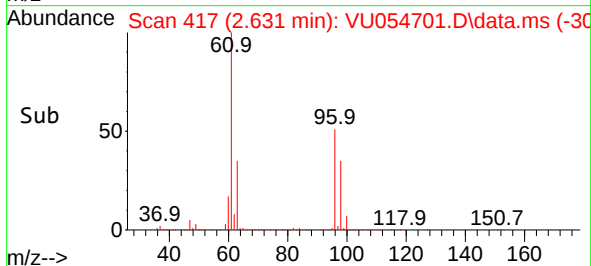
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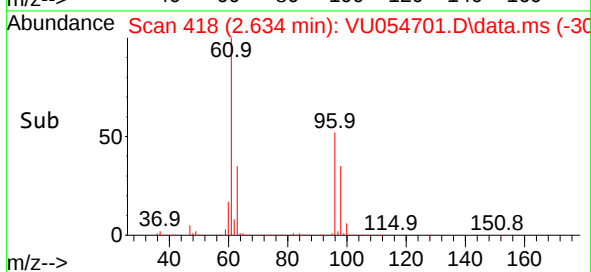
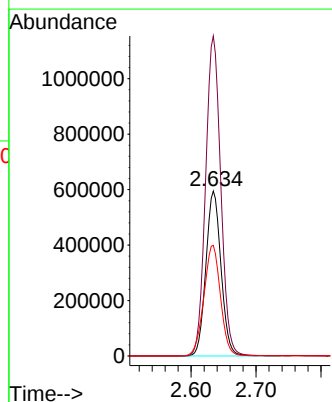
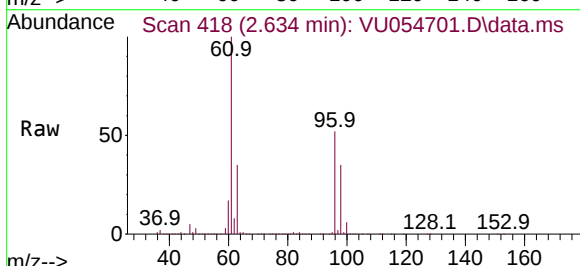
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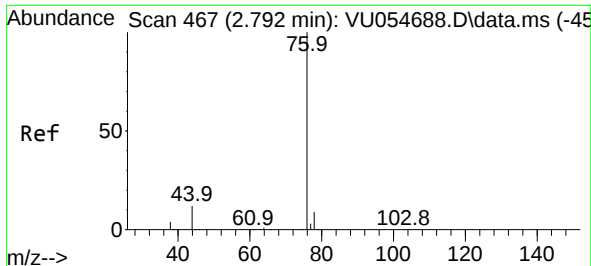
06/30/2023



#12  
1,1-Dichloroethene  
Concen: 47.465 ug/L  
RT: 2.634 min Scan# 418  
Delta R.T. 0.055 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

Tgt Ion: 96 Resp: 966124  
Ion Ratio Lower Upper  
96 100  
61 193.9 119.9 222.7  
63 67.0 64.3 119.3





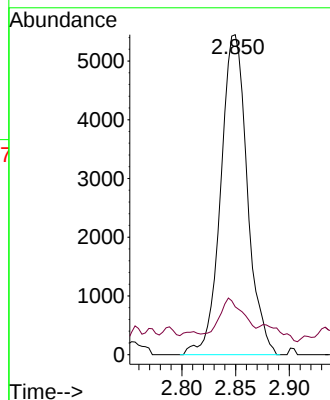
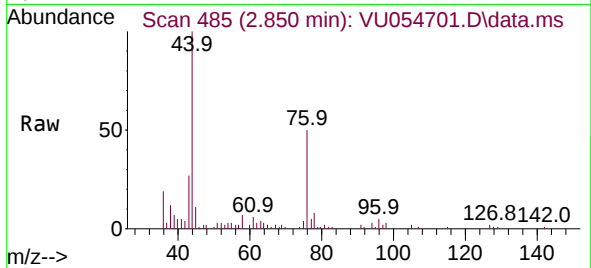
#14  
Carbon disulfide  
Concen: 0.155 ug/L  
RT: 2.850 min Scan# 41  
Delta R.T. 0.058 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

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Tgt Ion: 76 Resp: 9360  
Ion Ratio Lower Upper  
76 100  
78 15.0 7.4 11.0

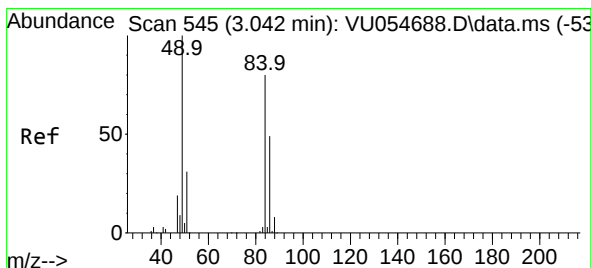
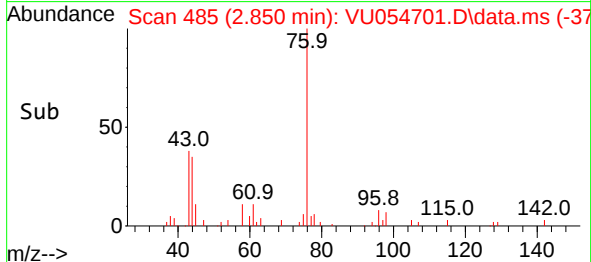
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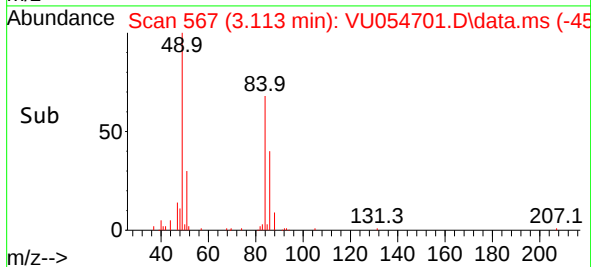
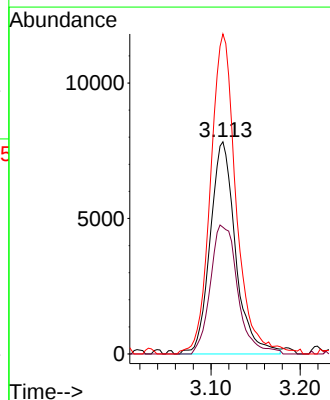
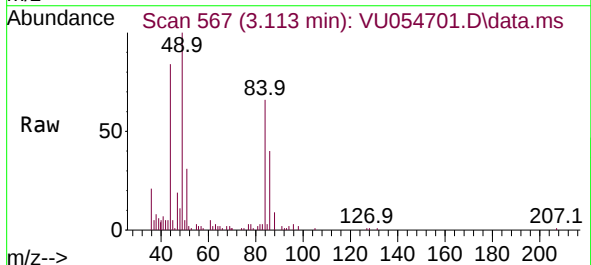
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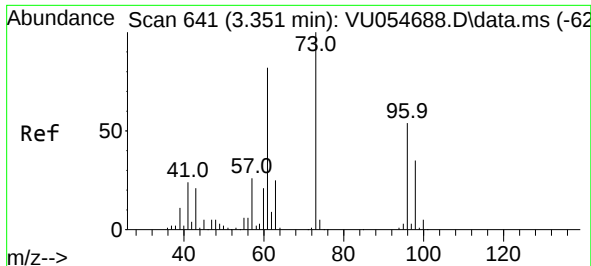
06/30/2023



#16  
Methylene chloride  
Concen: 0.542 ug/L  
RT: 3.113 min Scan# 567  
Delta R.T. 0.071 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

Tgt Ion: 84 Resp: 15522  
Ion Ratio Lower Upper  
84 100  
86 59.7 43.9 81.5  
49 150.8 86.1 159.9





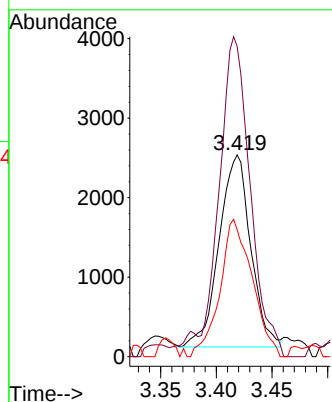
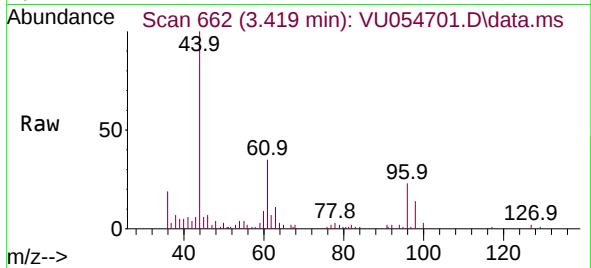
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trans-1,2-Dichloroethene  
Concen: 0.227 ug/L  
RT: 3.419 min Scan# 60  
Delta R.T. 0.068 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

Instrument :  
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HOA47

Tgt Ion: 96 Resp: 477  
Ion Ratio Lower Upper  
96 100  
61 153.7 104.6 194.2  
98 62.9 45.4 84.4

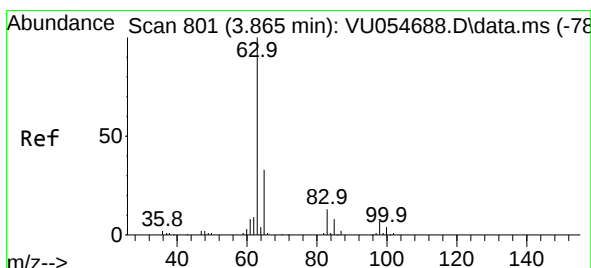
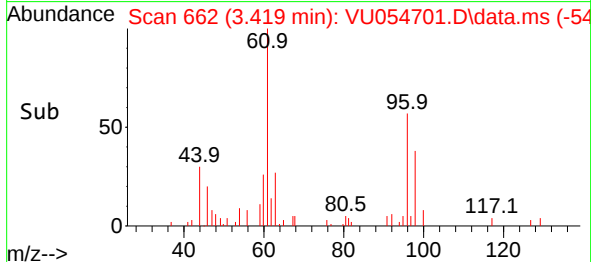
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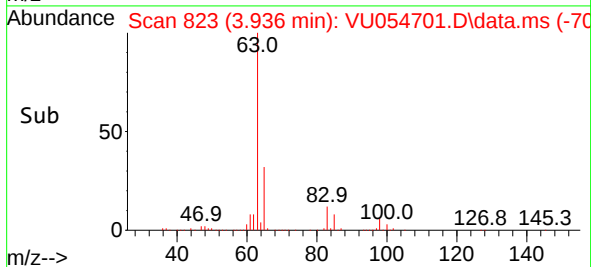
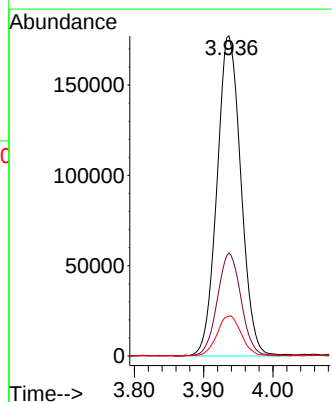
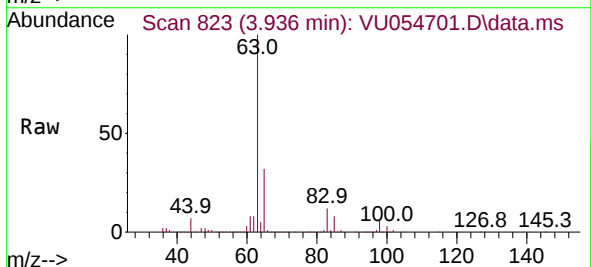
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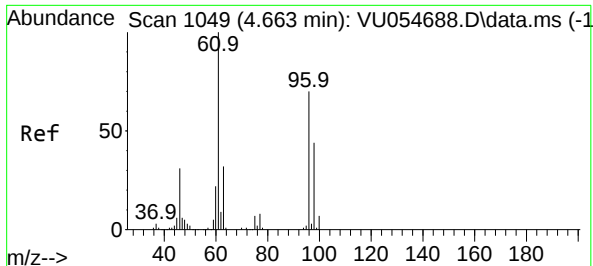
06/30/2023



#19  
1,1-Dichloroethane  
Concen: 9.792 ug/L  
RT: 3.936 min Scan# 823  
Delta R.T. 0.071 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

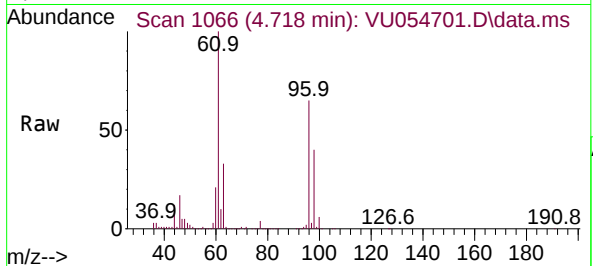
Tgt Ion: 63 Resp: 425874  
Ion Ratio Lower Upper  
63 100  
65 32.2 22.2 41.2  
83 12.5 9.0 16.6





#22  
cis-1,2-Dichloroethene  
Concen: 6.983 ug/L  
RT: 4.718 min Scan# 1066  
Delta R.T. 0.055 min  
Lab File: VU054701.D  
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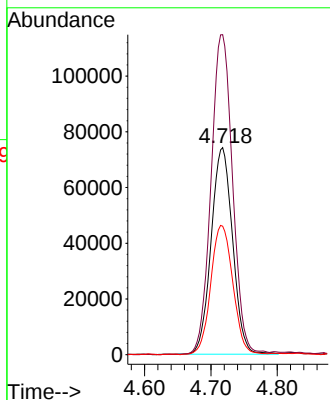
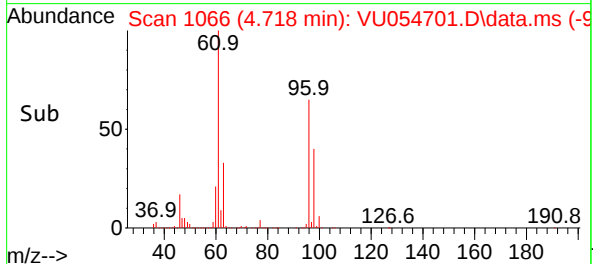
Instrument :  
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Tgt Ion: 96 Resp: 167114  
Ion Ratio Lower Upper  
96 100  
61 154.5 96.5 179.1  
98 62.0 44.9 83.3

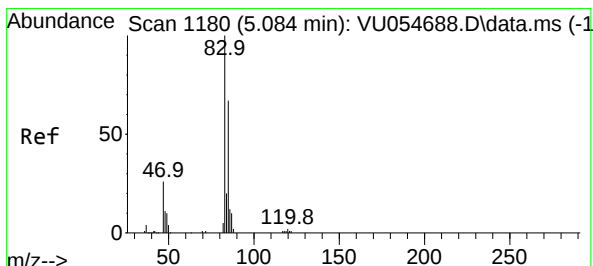
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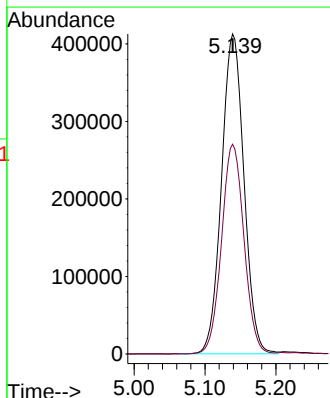
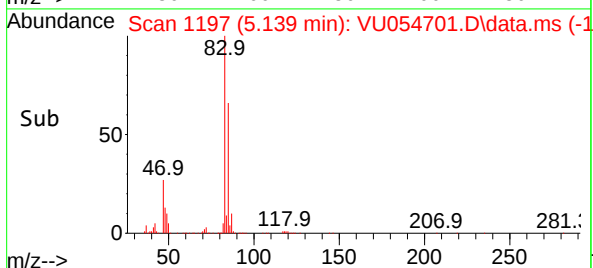
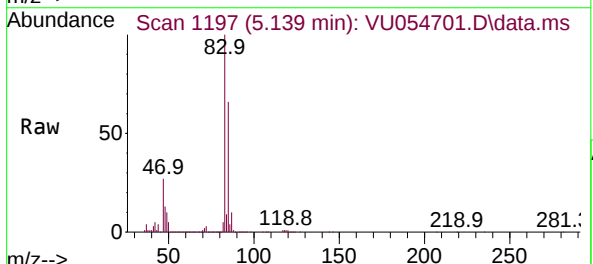
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Supervised By :Mahesh  
Dadoda

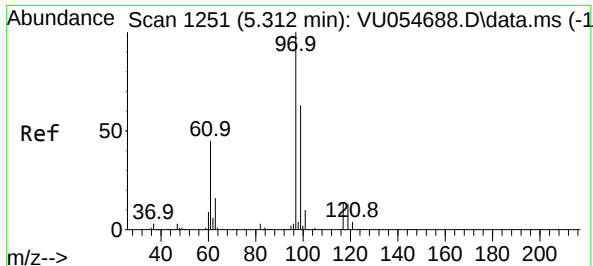
06/30/2023



#25  
Chloroform  
Concen: 21.174 ug/L  
RT: 5.139 min Scan# 1197  
Delta R.T. 0.055 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

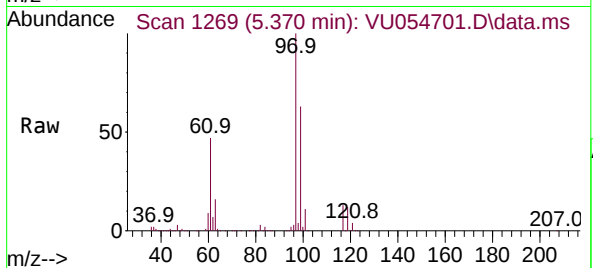
Tgt Ion: 83 Resp: 907883  
Ion Ratio Lower Upper  
83 100  
85 65.6 44.7 82.9





#29  
1,1,1-Trichloroethane  
Concen: 25.494 ug/L  
RT: 5.370 min Scan# 11  
Delta R.T. 0.058 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

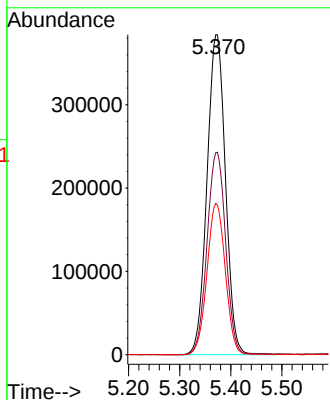
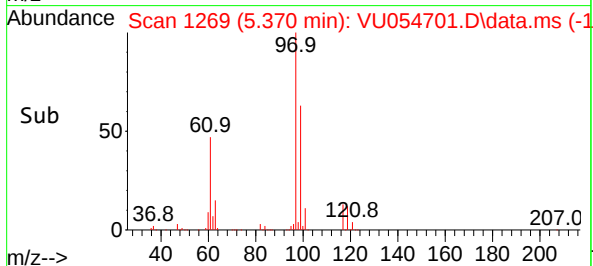
Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA47



Tgt Ion: 97 Resp: 964330  
Ion Ratio Lower Upper  
97 100  
99 63.7 50.8 76.2  
61 47.0 36.1 54.1

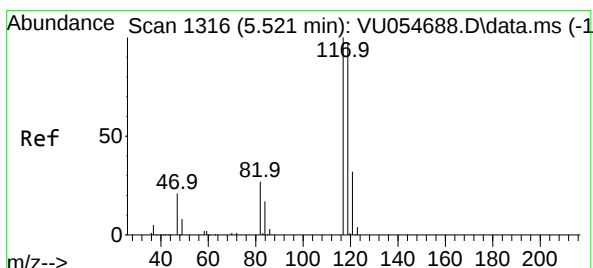
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Supervised By :Mahesh Dadoda 06/30/2023



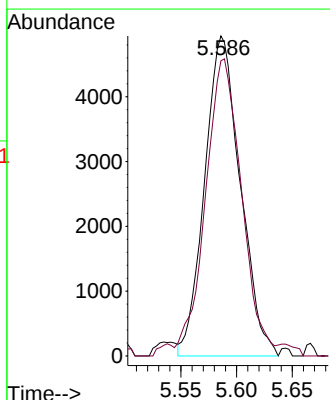
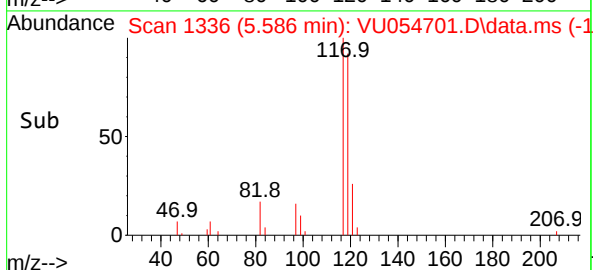
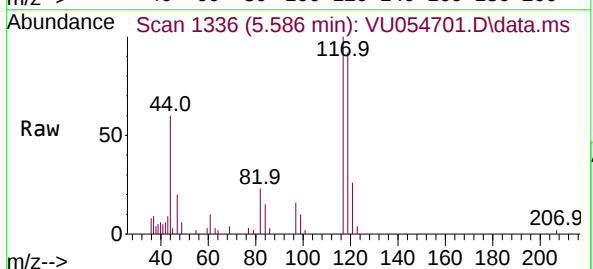
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Supervised By :Mahesh  
Dadoda

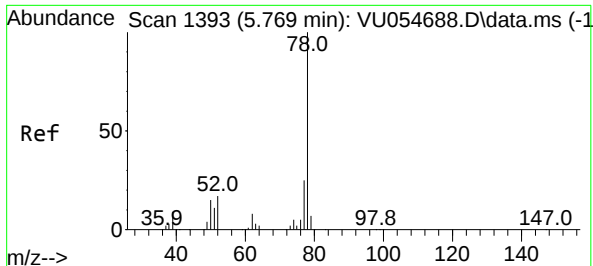
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#31  
Carbon tetrachloride  
Concen: 0.337 ug/L  
RT: 5.586 min Scan# 1336  
Delta R.T. 0.064 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

Tgt Ion:117 Resp: 10990  
Ion Ratio Lower Upper  
117 100  
119 87.5 76.8 115.2





#33

Benzene

Concen: 0.499 ug/L

RT: 5.856 min Scan# 14

Delta R.T. 0.087 min

Lab File: VU054701.D

Acq: 29 Jun 2023 17:37

Instrument :

MSVOA\_U

ClientSampleId :

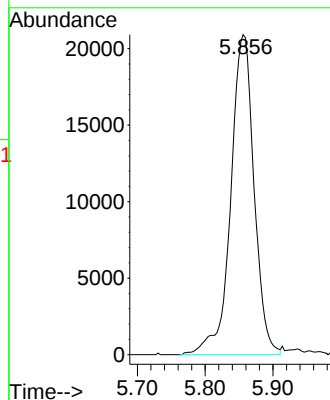
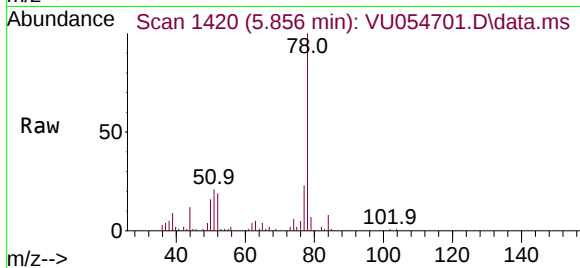
HOA47

Tgt Ion: 78 Resp: 5002

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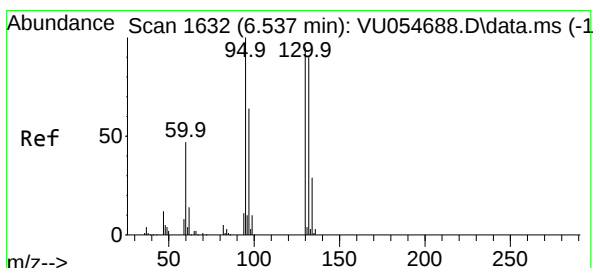
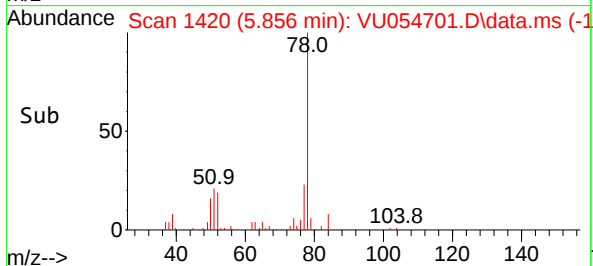
Supervised By :Mahesh Dadoda 06/30/2023



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Supervised By :Mahesh  
Dadoda

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#34

Trichloroethene

Concen: 230.243 ug/L

RT: 6.612 min Scan# 1655

Delta R.T. 0.074 min

Lab File: VU054701.D

Acq: 29 Jun 2023 17:37

Tgt Ion: 95 Resp: 6103806

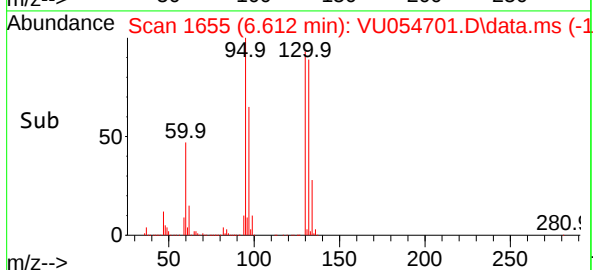
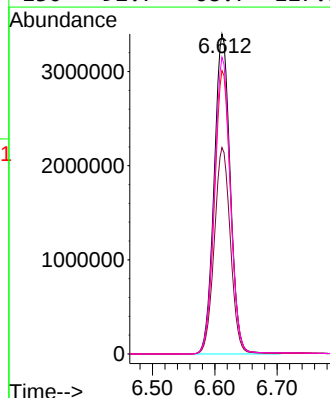
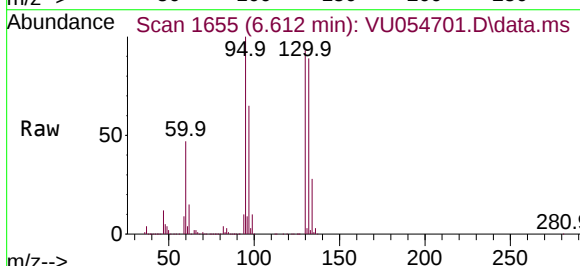
Ion Ratio Lower Upper

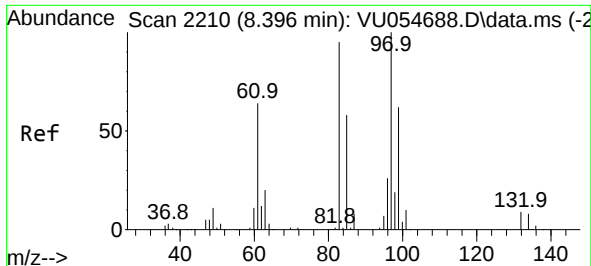
95 100

97 64.5 46.8 87.0

132 88.6 68.4 127.0

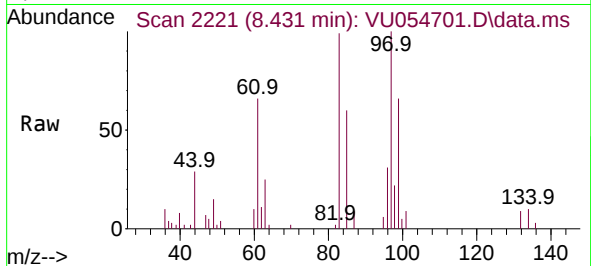
130 92.7 68.7 127.5





#45  
1,1,2-Trichloroethane  
Concen: 0.640 ug/L  
RT: 8.431 min Scan# 2110  
Delta R.T. 0.036 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

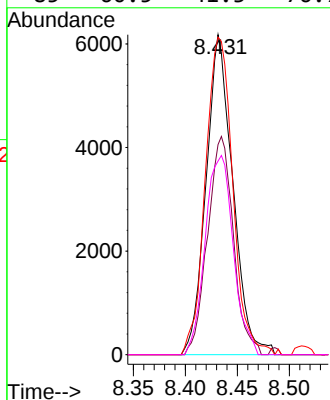
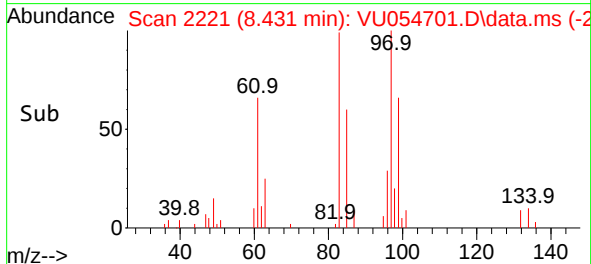
Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA47



| Tgt Ion: | 97    | Resp: | 11039 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 65.7  | 43.0  | 80.0  |
| 83       | 99.2  | 63.8  | 118.6 |
| 85       | 60.5  | 41.3  | 76.7  |

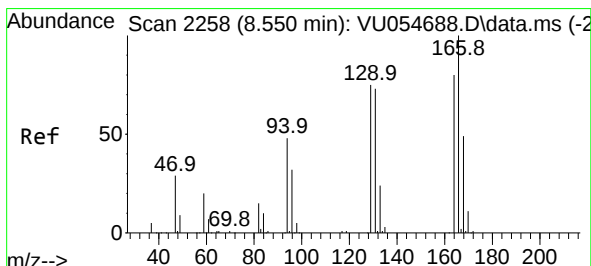
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Supervised By :Mahesh Dadoda 06/30/2023



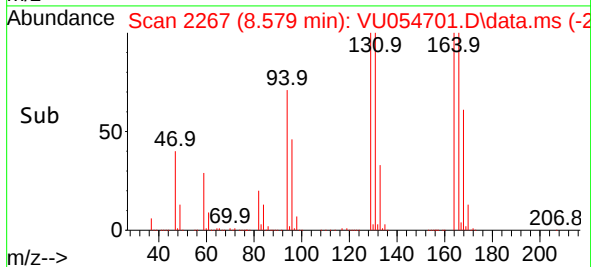
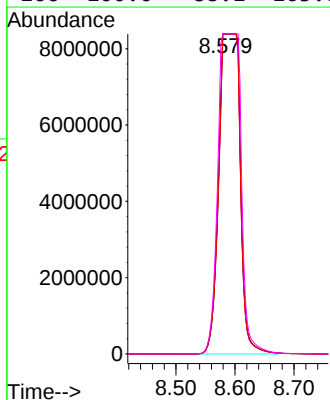
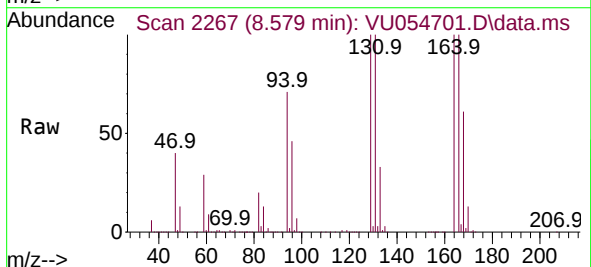
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Dadoda

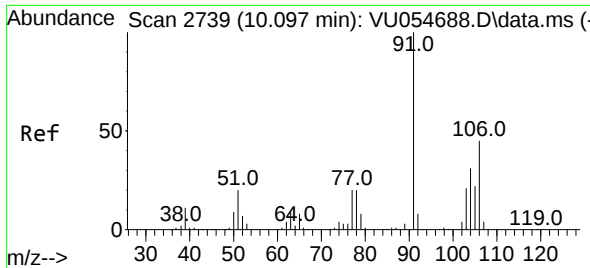
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#47  
Tetrachloroethene  
Concen: 1040.953 ug/L m  
RT: 8.579 min Scan# 2267  
Delta R.T. 0.029 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

| Tgt Ion: | 164   | Resp: | 21123937 |
|----------|-------|-------|----------|
| Ion      | Ratio | Lower | Upper    |
| 164      | 100   |       |          |
| 129      | 100.0 | 67.7  | 125.7    |
| 131      | 100.0 | 64.6  | 120.0    |
| 166      | 100.0 | 88.1  | 163.7    |





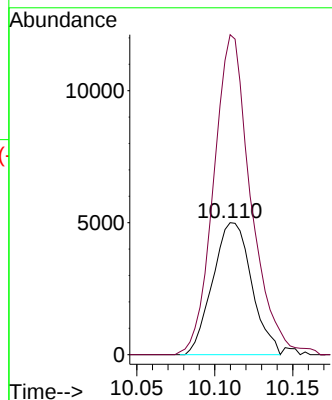
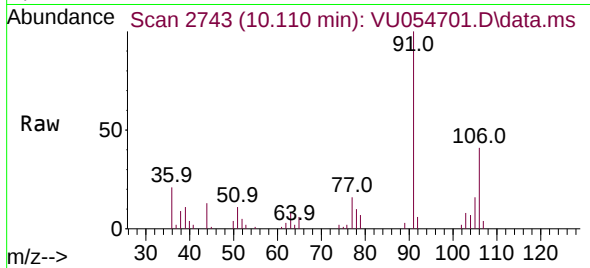
#54  
o-Xylene  
Concen: 0.217 ug/L  
RT: 10.110 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA47

Tgt Ion:106 Resp: 867  
Ion Ratio Lower Upper  
106 100  
91 242.4 154.5 286.9

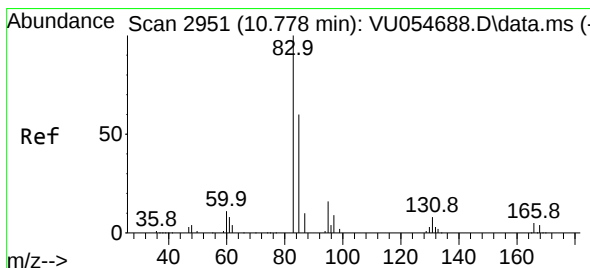
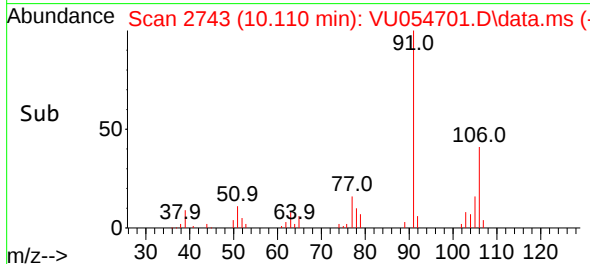
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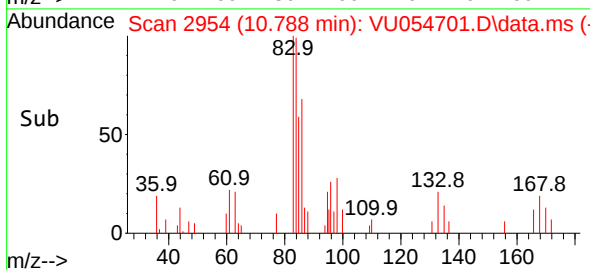
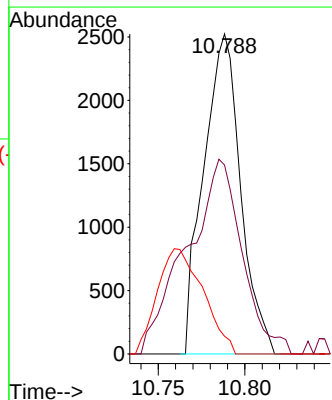
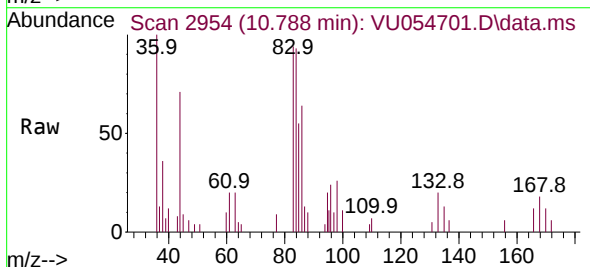
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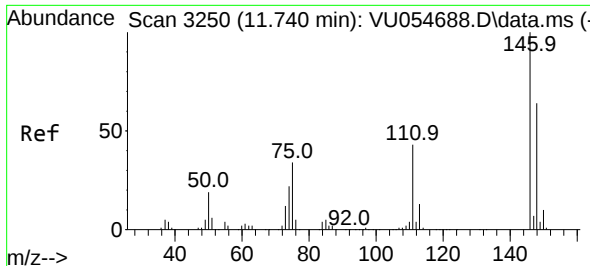
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#57  
1,1,2,2-Tetrachloroethane  
Concen: 0.171 ug/L  
RT: 10.788 min Scan# 2954  
Delta R.T. 0.013 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

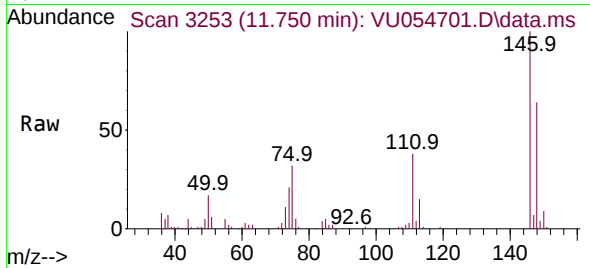
Tgt Ion: 83 Resp: 3745  
Ion Ratio Lower Upper  
83 100  
85 59.0 44.2 82.2  
131 5.5 7.0 10.6#





#64  
1,3-Dichlorobenzene  
Concen: 1.103 ug/L  
RT: 11.750 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37

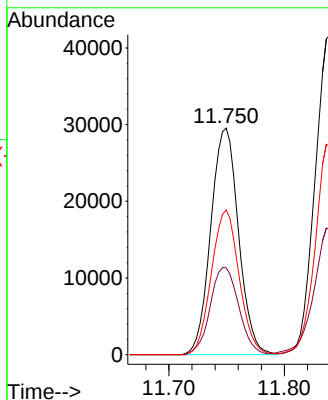
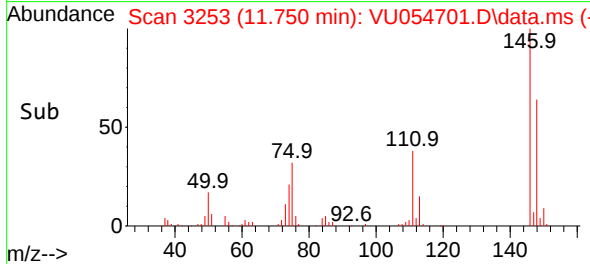
Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA47



Tgt Ion:146 Resp: 4928  
Ion Ratio Lower Upper  
146 100  
111 38.3 28.9 53.7  
148 63.9 44.0 81.8

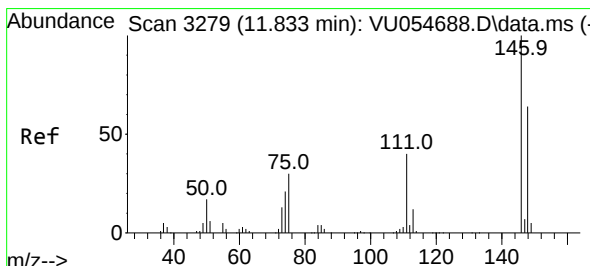
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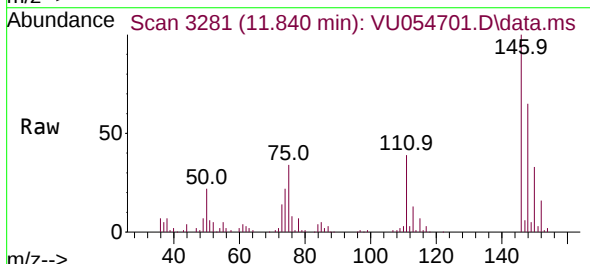


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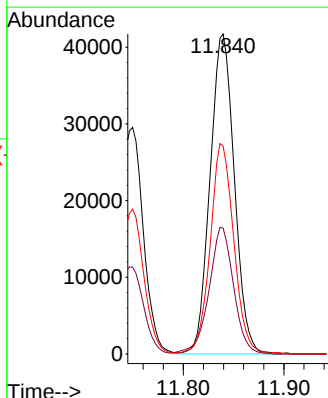
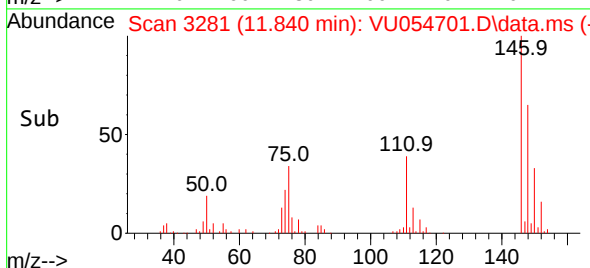
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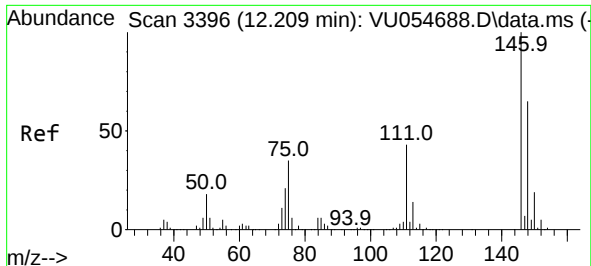


#65  
1,4-Dichlorobenzene  
Concen: 1.561 ug/L  
RT: 11.840 min Scan# 3281  
Delta R.T. 0.010 min  
Lab File: VU054701.D  
Acq: 29 Jun 2023 17:37



Tgt Ion:146 Resp: 70011  
Ion Ratio Lower Upper  
146 100  
111 39.3 28.0 52.0  
148 65.0 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 6.528 ug/L

RT: 12.213 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU054701.D

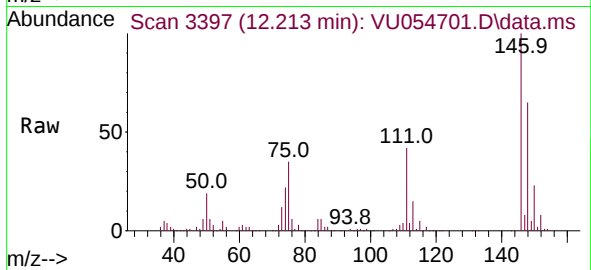
Acq: 29 Jun 2023 17:37

Instrument :

MSVOA\_U

ClientSampleId :

HOA47



Tgt Ion:146 Resp: 268279

Ion Ratio Lower Upper

146 100

111 42.4 34.5 51.7

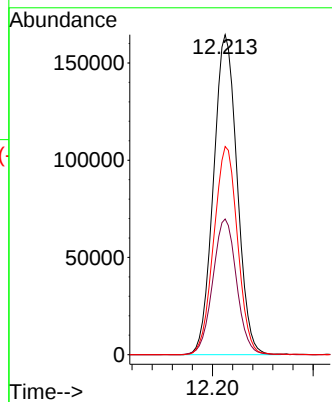
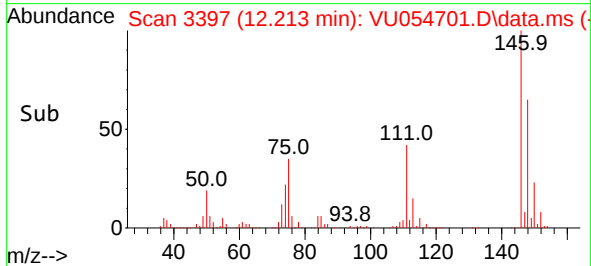
148 65.1 50.9 76.3

Manual Integrations

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Dadoda

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