

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020724\  
 Data File : VU057850.D  
 Acq On : 07 Feb 2024 19:13  
 Operator : MD/SY  
 Sample : P1081-08  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0B46

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/09/2024  
 Supervised By :Semsettin Yesilyurt 02/09/2024

Quant Time: Feb 08 01:30:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM020724WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 08 01:18:21 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| -----                         |                |      |            |          |       |          |
| Internal Standards            |                |      |            |          |       |          |
| 1) 1,4-Difluorobenzene        | 6.242          | 114  | 262455     | 50.000   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.438          | 117  | 258697     | 50.000   | ug/L  | 0.03     |
| 58) 1,4-Dichlorobenzene-d4    | 11.823         | 152  | 152235     | 50.000   | ug/L  | # 0.02   |
|                               |                |      |            |          |       |          |
| System Monitoring Compounds   |                |      |            |          |       |          |
| 4) Vinyl Chloride-d3          | 1.595          | 65   | 98109      | 46.703   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 93.400%  |       |          |
| 7) Chloroethane-d5            | 1.885          | 69   | 73807      | 45.289   | ug/L  | -0.02    |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 90.580%  |       |          |
| 11) 1,1-Dichloroethene-d2     | 2.554          | 63   | 128676     | 33.351   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 66.700%  |       |          |
| 21) 2-Butanone-d5             | 4.618          | 46   | 67023      | 57.489   | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 57.490%  |       |          |
| 24) Chloroform-d              | 5.052          | 84   | 165788     | 44.489   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 88.980%  |       |          |
| 26) 1,2-Dichloroethane-d4     | 5.692          | 65   | 112204     | 47.497   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 95.000%  |       |          |
| 32) Benzene-d6                | 5.721          | 84   | 342675     | 43.847   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 87.700%  |       |          |
| 36) 1,2-Dichloropropane-d6    | 6.682          | 67   | 108126     | 43.811   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 87.620%  |       |          |
| 41) Toluene-d8                | 7.894          | 98   | 312843     | 44.154   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 88.300%  |       |          |
| 43) trans-1,3-Dichloroprop... | 8.177          | 79   | 54383      | 45.044   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 90.080%  |       |          |
| 47) 2-Hexanone-d5             | 8.637          | 63   | 106047     | 105.269  | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 105.270% |       |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753         | 84   | 172861     | 53.805   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 107.600% |       |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.209         | 152  | 133005     | 45.476   | ug/L  | 0.02     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 90.960%  |       |          |
|                               |                |      |            |          |       |          |
| Target Compounds              |                |      |            |          |       |          |
| 13) Acetone                   | 2.618          | 43   | 8833       | 5.898    | ug/L  | 98       |
| 25) Chloroform                | 5.078          | 83   | 46399      | 12.820   | ug/L  | 97       |
| 29) Cyclohexane               | 5.380          | 56   | 23550      | 6.996    | ug/L  | 97       |
| 31) Carbon tetrachloride      | 5.515          | 117  | 15059      | 5.183    | ug/L  | 95       |
| 33) Benzene                   | 5.766          | 78   | 13122019   | 1602.339 | ug/L  | 100      |
| 42) Toluene                   | 7.965          | 91   | 83924      | 9.785    | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.550          | 164  | 3116       | 2.040    | ug/L  | 87       |
| 51) Chlorobenzene             | 9.441          | 112  | 42724327m  | 7843.372 | ug/L  |          |
| 64) 1,3-Dichlorobenzene       | 11.749         | 146  | 5976377    | 1240.253 | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.836         | 146  | 28463152m  | 5758.813 | ug/L  |          |
| 67) 1,2-Dichlorobenzene       | 12.212         | 146  | 30767890m  | 6333.905 | ug/L  |          |
| 70) 1,2,4-trichlorobenzene    | 13.839         | 180  | 3457942    | 1192.742 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.325         | 180  | 856897     | 315.880  | ug/L  | 100      |
| -----                         |                |      |            |          |       |          |

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

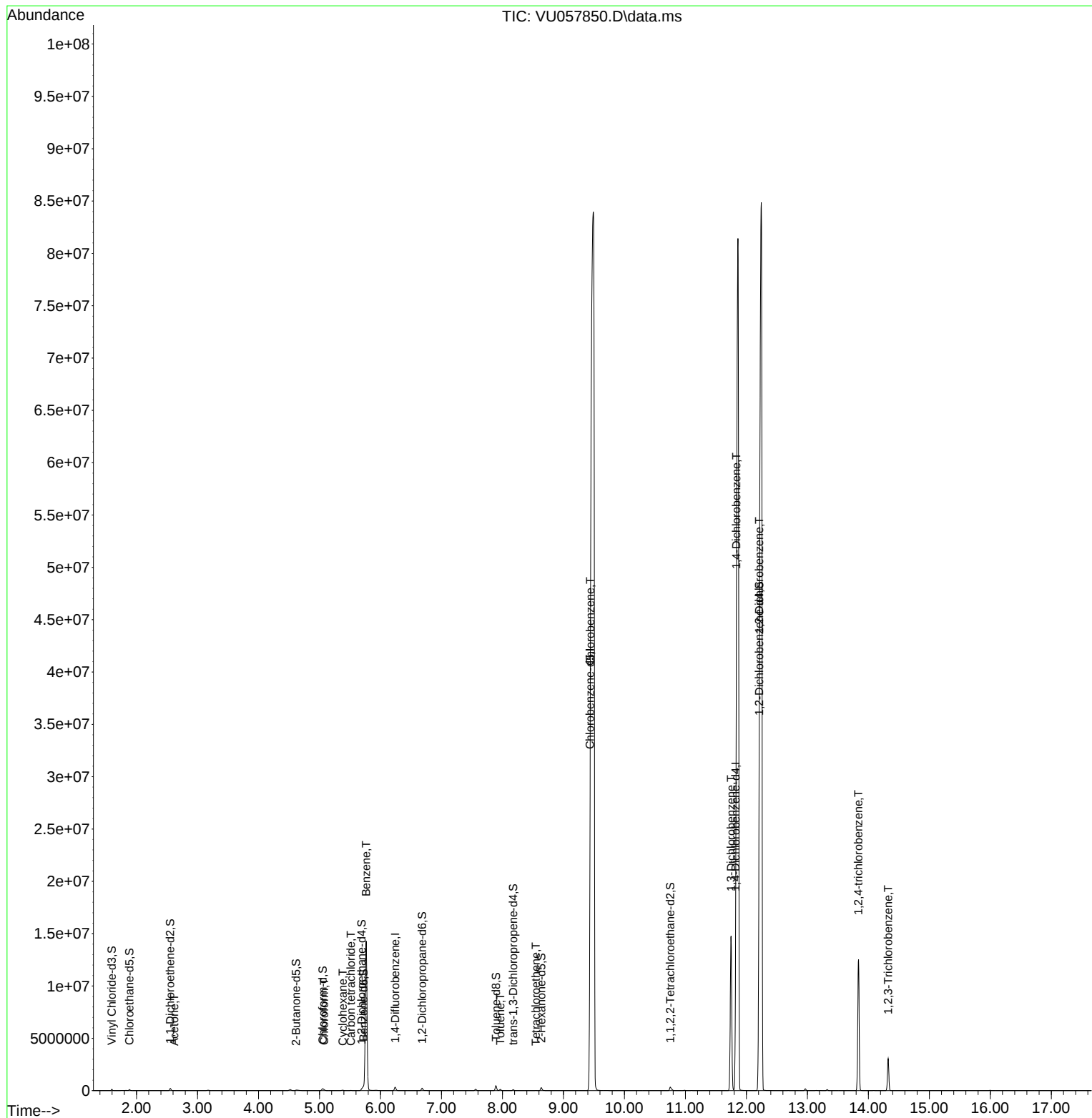
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020724\  
Data File : VU057850.D  
Acq On : 07 Feb 2024 19:13  
Operator : MD/SY  
Sample : P1081-08  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 25 Sample Multiplier: 1

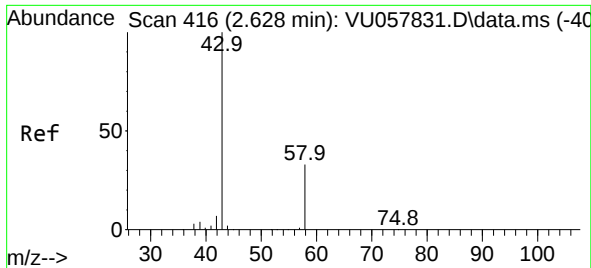
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0B46

Quant Time: Feb 08 01:30:24 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM020724WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Feb 08 01:18:21 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 02/09/2024  
Supervised By :Semsettin Yesilyurt 02/09/2024





#13

Acetone

Concen: 5.898 ug/L

RT: 2.618 min Scan# 41

Delta R.T. -0.010 min

Lab File: VU057850.D

Acq: 07 Feb 2024 19:13

Instrument :

MSVOA\_U

ClientSampleId :

C0B46

Tgt Ion: 43 Resp: 883

Ion Ratio Lower Upper

43 100

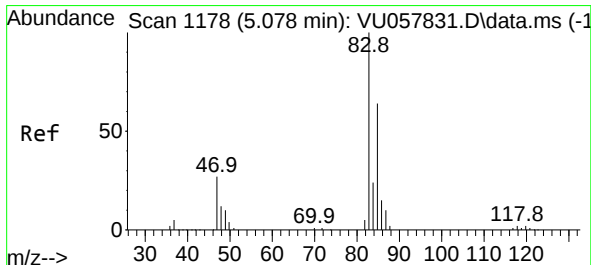
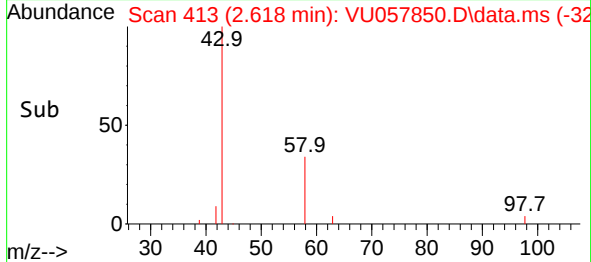
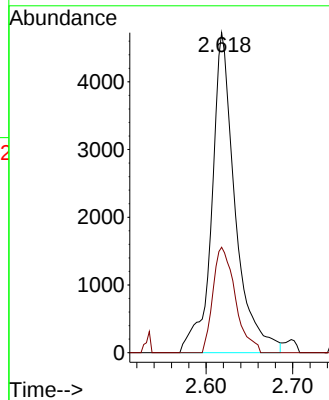
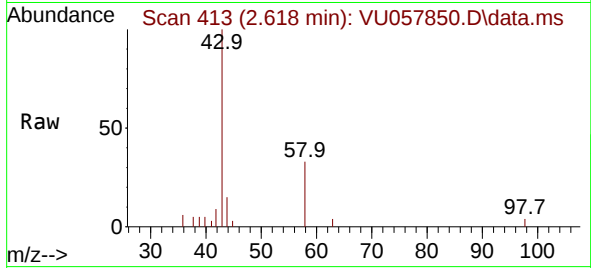
58 31.5 0.0 65.8

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/09/2024

Supervised By :Semsettin Yesilyurt 02/09/2024



#25

Chloroform

Concen: 12.820 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. -0.000 min

Lab File: VU057850.D

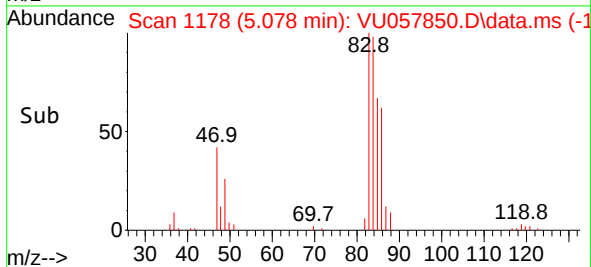
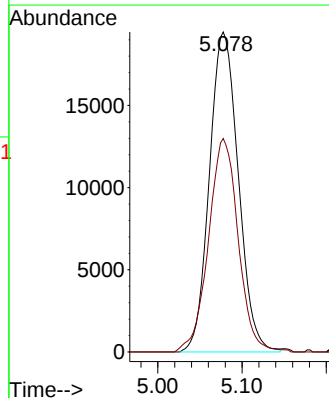
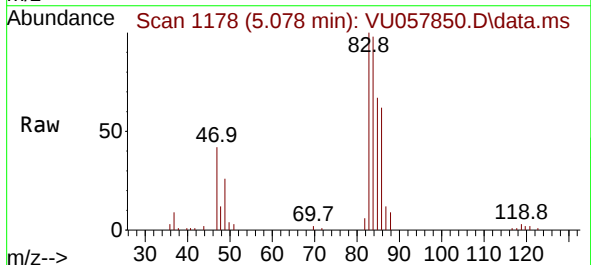
Acq: 07 Feb 2024 19:13

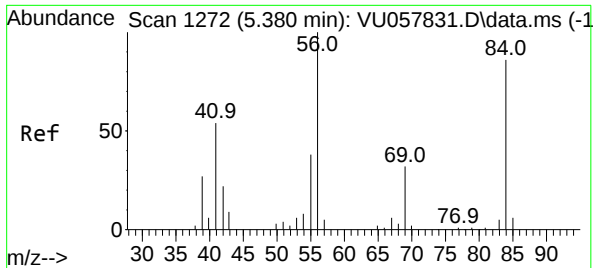
Tgt Ion: 83 Resp: 46399

Ion Ratio Lower Upper

83 100

85 66.7 45.0 83.6





#29

Cyclohexane

Concen: 6.996 ug/L

RT: 5.380 min Scan# 1272

Delta R.T. -0.000 min

Lab File: VU057850.D

Acq: 07 Feb 2024 19:13

Instrument :

MSVOA\_U

ClientSampleId :

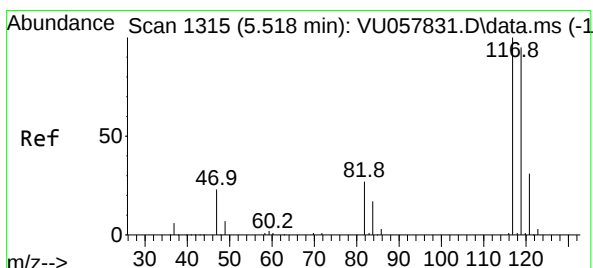
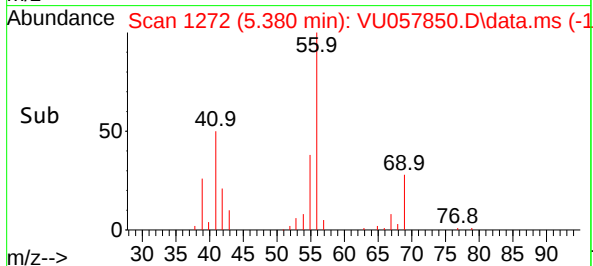
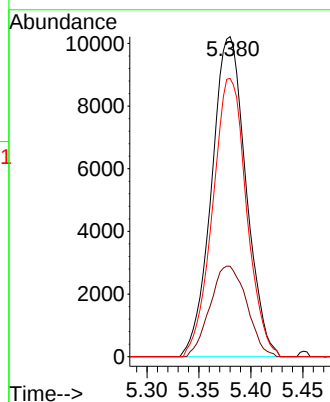
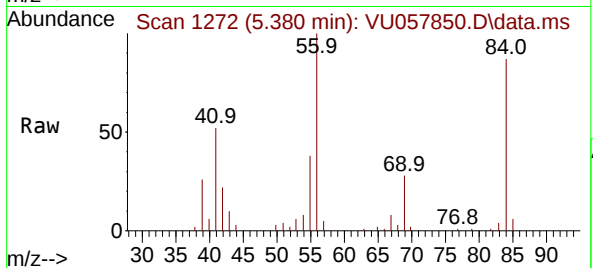
C0B46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 56    | Resp: | 23550 |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 30.0  | 25.4  | 38.0  |
| 84        | 85.6  | 70.4  | 105.6 |

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/09/2024  
Supervised By :Semsettin Yesilyurt 02/09/2024



#31

Carbon tetrachloride

Concen: 5.183 ug/L

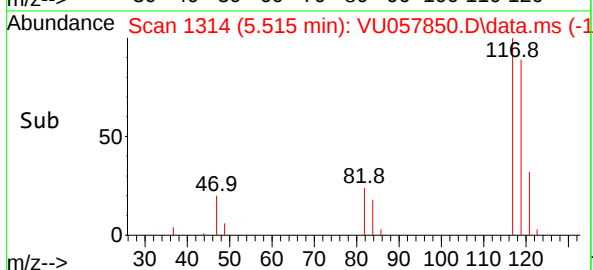
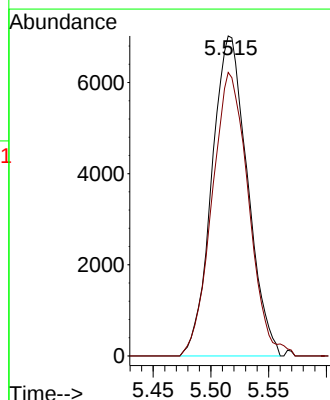
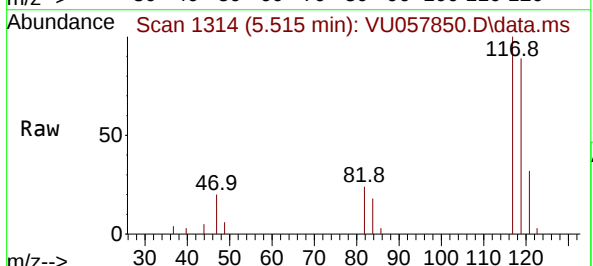
RT: 5.515 min Scan# 1314

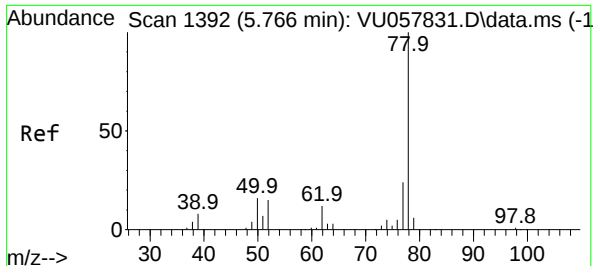
Delta R.T. -0.003 min

Lab File: VU057850.D

Acq: 07 Feb 2024 19:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 15059 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 90.7  | 76.7  | 115.1 |





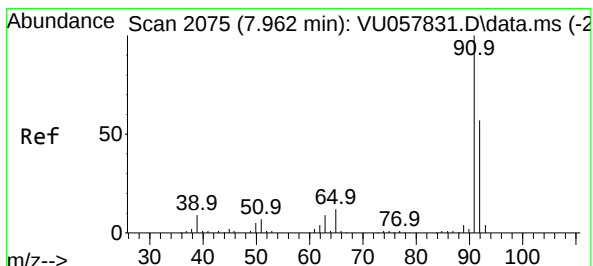
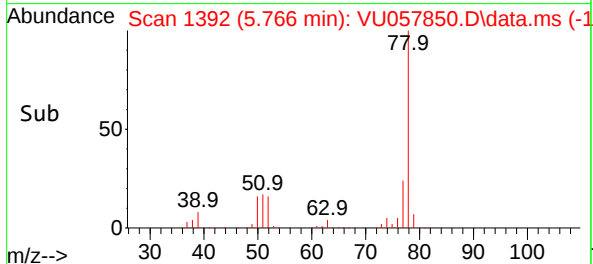
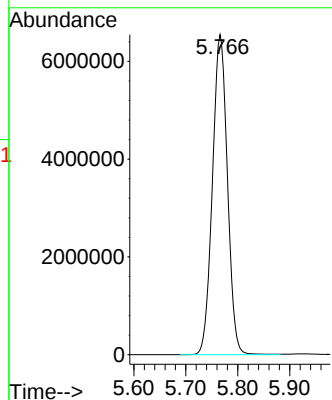
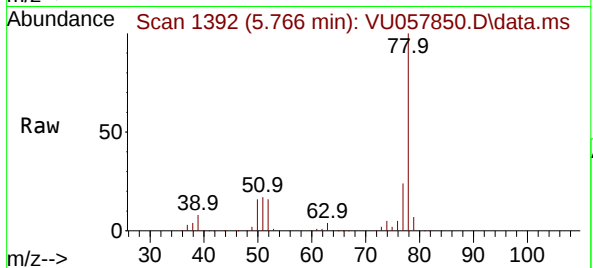
#33  
Benzene  
Concen: 1602.339 ug/L  
RT: 5.766 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0B46

Tgt Ion: 78 Resp:13122019

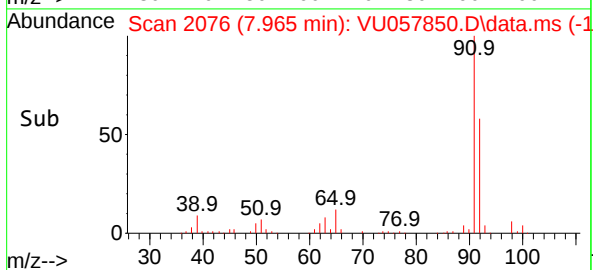
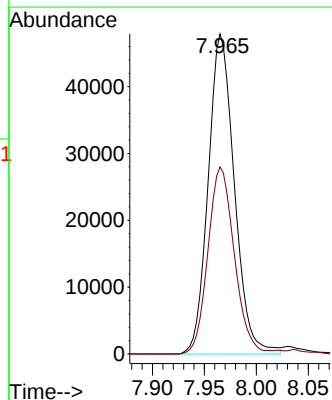
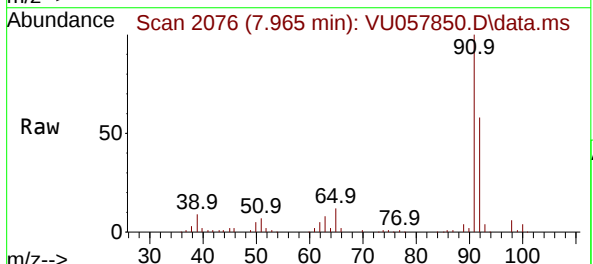
Manual Integrations  
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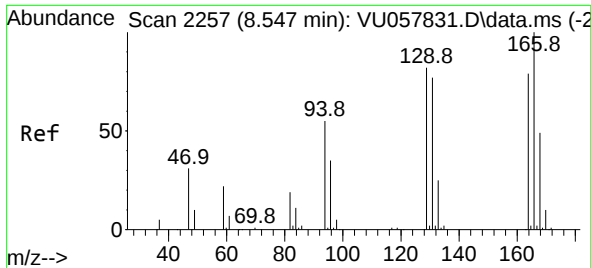
Reviewed By :Mahesh Dadoda 02/09/2024  
Supervised By :Semsettin Yesilyurt 02/09/2024



#42  
Toluene  
Concen: 9.785 ug/L  
RT: 7.965 min Scan# 2076  
Delta R.T. 0.003 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

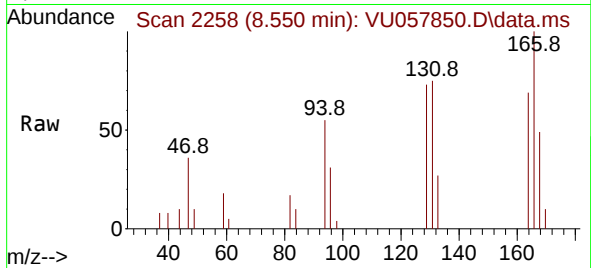
Tgt Ion: 91 Resp: 83924  
Ion Ratio Lower Upper  
91 100  
92 58.4 39.8 73.8





#46  
Tetrachloroethene  
Concen: 2.040 ug/L  
RT: 8.550 min Scan# 2110  
Delta R.T. 0.003 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

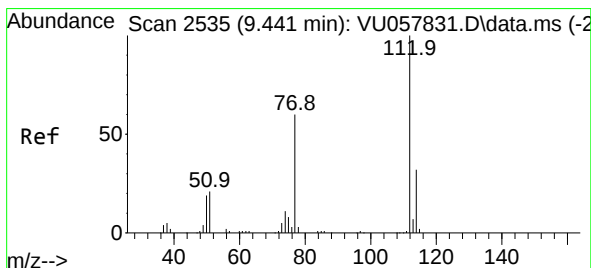
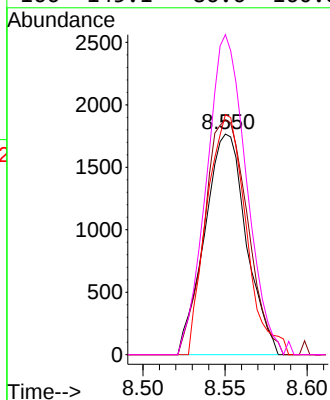
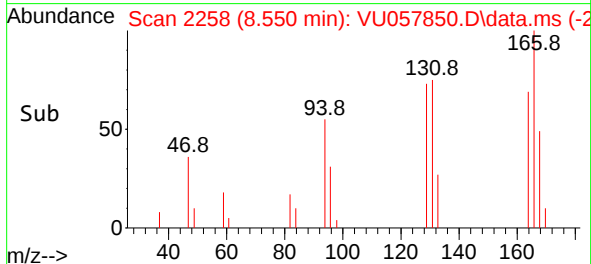
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0B46



Tgt Ion:164 Resp: 3110  
Ion Ratio Lower Upper  
164 100  
129 106.5 70.8 131.4  
131 108.8 66.8 124.0  
166 145.1 86.6 160.8

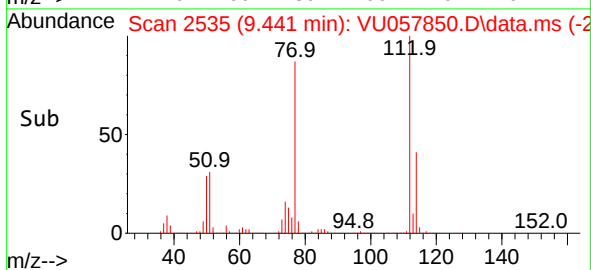
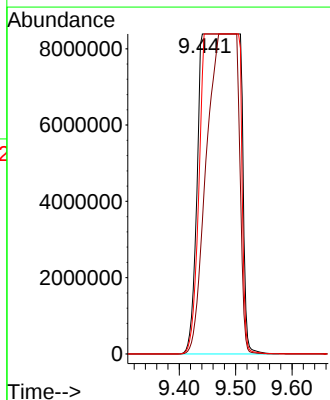
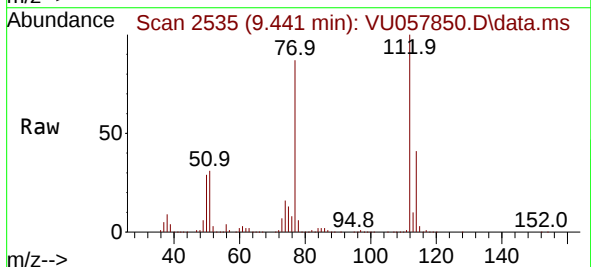
Manual Integrations  
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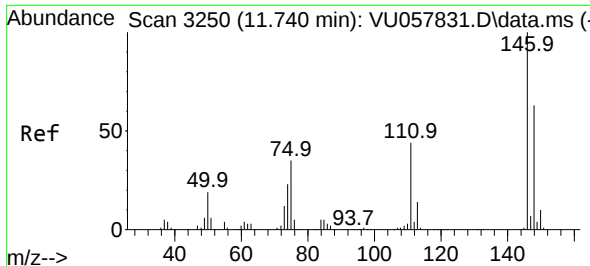
Reviewed By :Mahesh Dadoda 02/09/2024  
Supervised By :Semsettin Yesilyurt 02/09/2024



#51  
Chlorobenzene  
Concen: 7843.372 ug/L m  
RT: 9.441 min Scan# 2535  
Delta R.T. -0.000 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

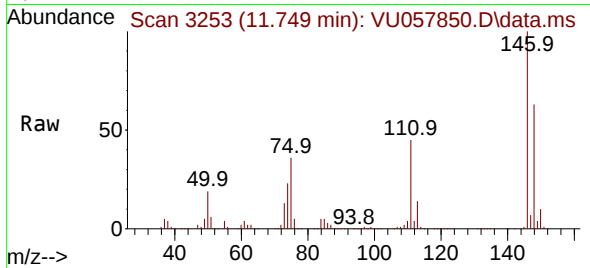
Tgt Ion:112 Resp:42724327  
Ion Ratio Lower Upper  
112 100  
114 41.4 22.0 41.0#  
77 87.2 48.2 72.4#





#64  
1,3-Dichlorobenzene  
Concen: 1240.253 ug/L  
RT: 11.749 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

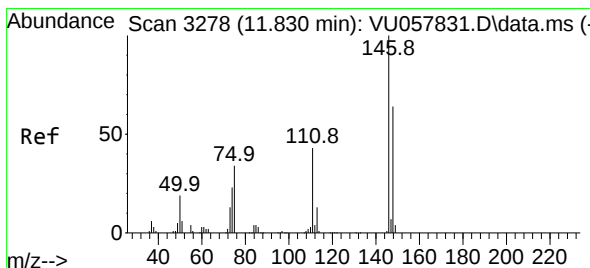
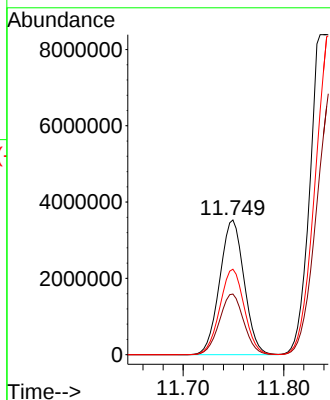
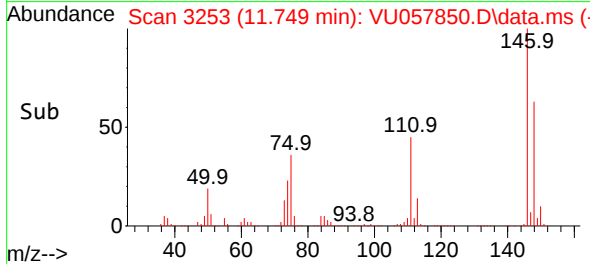
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0B46



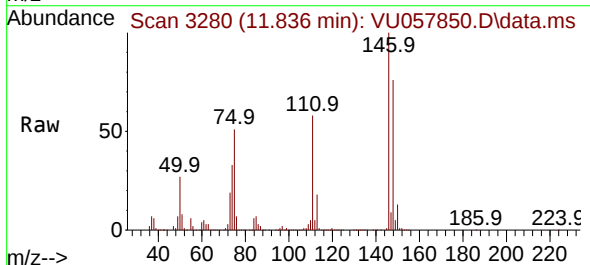
Tgt Ion:146 Resp: 597637  
Ion Ratio Lower Upper  
146 100  
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148 63.4 46.8 86.8

Manual Integrations  
APPROVED

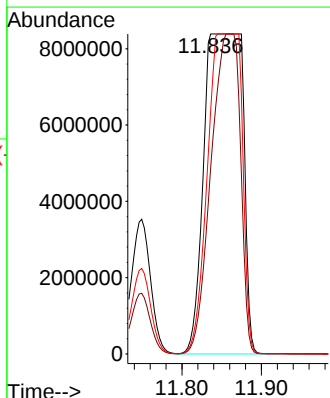
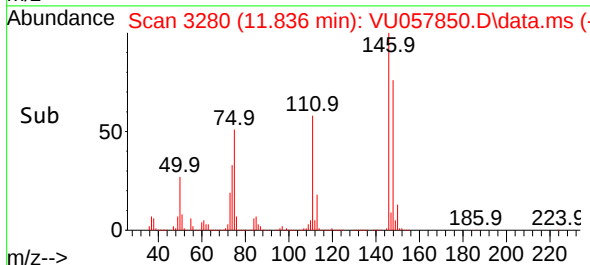
Reviewed By :Mahesh Dadoda 02/09/2024  
Supervised By :Semsettin Yesilyurt 02/09/2024

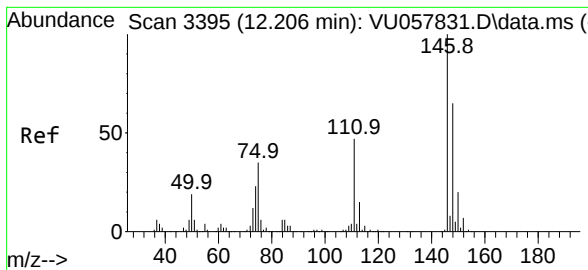


#65  
1,4-Dichlorobenzene  
Concen: 5758.813 ug/L m  
RT: 11.836 min Scan# 3280  
Delta R.T. 0.006 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13



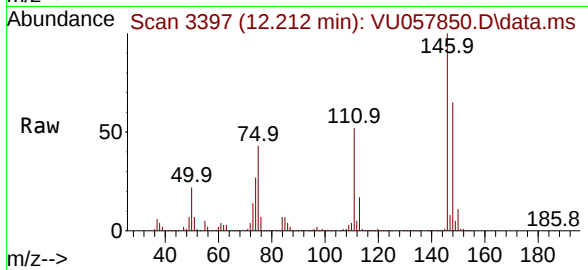
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Ion Ratio Lower Upper  
146 100  
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148 76.2 45.3 84.1





#67  
1,2-Dichlorobenzene  
Concen: 6333.905 ug/L m  
RT: 12.212 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

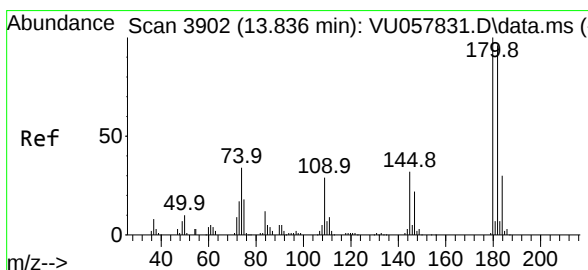
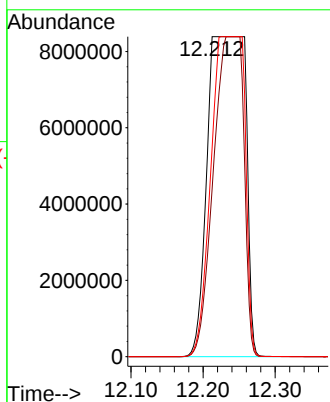
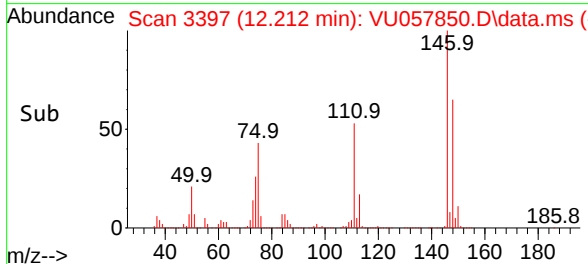
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0B46



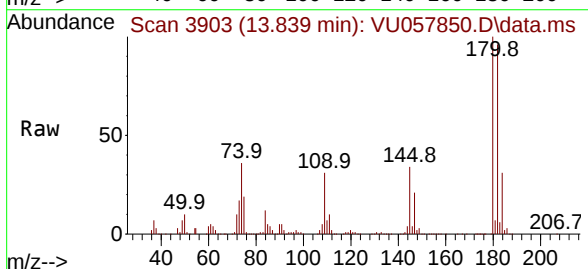
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Ion Ratio Lower Upper  
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111 52.4 37.8 56.8  
148 65.2 51.7 77.5

Manual Integrations  
APPROVED

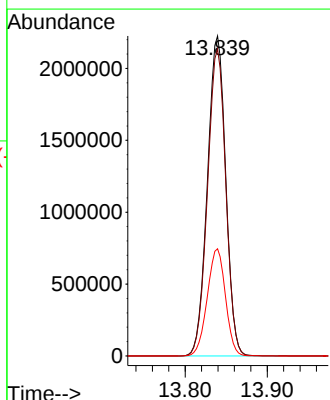
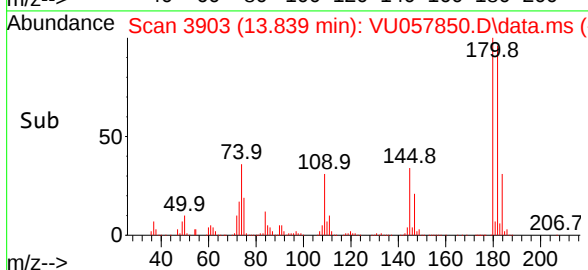
Reviewed By :Mahesh Dadoda 02/09/2024  
Supervised By :Semsettin Yesilyurt 02/09/2024

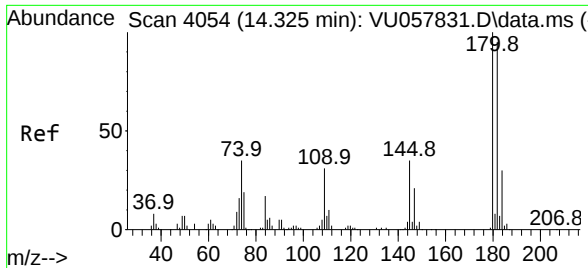


#70  
1,2,4-trichlorobenzene  
Concen: 1192.742 ug/L  
RT: 13.839 min Scan# 3903  
Delta R.T. 0.003 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13



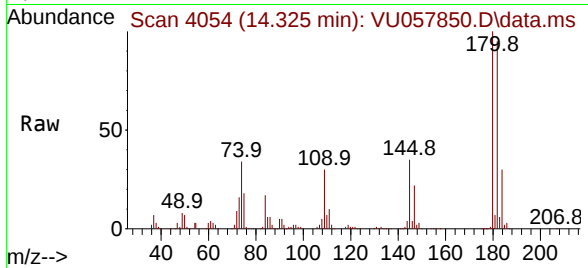
Tgt Ion:180 Resp: 3457942  
Ion Ratio Lower Upper  
180 100  
182 95.6 76.0 114.0  
145 33.3 25.5 38.3





#72  
 1,2,3-Trichlorobenzene  
 Concen: 315.880 ug/L  
 RT: 14.325 min Scan# 4054  
 Delta R.T. -0.000 min  
 Lab File: VU057850.D  
 Acq: 07 Feb 2024 19:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0B46



Tgt Ion:180 Resp: 85689  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 76.6 114.8  
 145 34.5 27.7 41.5

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