

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU042823\  
 Data File : VU053955.D  
 Acq On : 27 Apr 2023 23:17  
 Operator : JC/MD  
 Sample : 02528-02  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 HOA34

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/01/2023  
 Supervised By :Mahesh Dadoda 05/01/2023

Quant Time: Apr 28 07:22:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR042423WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Apr 27 05:52:18 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response  | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|-----------|----------|-------|----------|
| -----                         |        |       |           |          |       |          |
| Internal Standards            |        |       |           |          |       |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114   | 140439    | 5.000    | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 136869    | 5.000    | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 68121     | 5.000    | ug/L  | 0.00     |
|                               |        |       |           |          |       |          |
| System Monitoring Compounds   |        |       |           |          |       |          |
| 4) Vinyl Chloride-d3          | 1.601  | 65    | 27431     | 3.207    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130  | Recovery | =     | 64.200%  |
| 7) Chloroethane-d5            | 1.916  | 69    | 26154     | 3.643    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130  | Recovery | =     | 72.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.565  | 65    | 13415     | 3.811    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125  | Recovery | =     | 76.200%  |
| 20) 2-Butanone-d5             | 4.636  | 46    | 77116     | 49.221   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130  | Recovery | =     | 98.440%  |
| 24) Chloroform-d              | 5.060  | 84    | 70858     | 4.396    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125  | Recovery | =     | 88.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.697  | 65    | 34012     | 4.566    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130  | Recovery | =     | 91.400%  |
| 32) Benzene-d6                | 5.723  | 84    | 132663    | 4.114    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125  | Recovery | =     | 82.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 42596     | 4.367    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140  | Recovery | =     | 87.400%  |
| 41) Toluene-d8                | 7.896  | 98    | 118433    | 3.936    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130  | Recovery | =     | 78.800%  |
| 43) trans-1,3-Dichloroprop... | 8.179  | 79    | 14704     | 3.833    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130  | Recovery | =     | 76.600%  |
| 46) 2-Hexanone-d5             | 8.629  | 63    | 66182     | 48.748   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130  | Recovery | =     | 97.500%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 34670     | 4.398    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120  | Recovery | =     | 88.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152   | 46883     | 4.291    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120  | Recovery | =     | 85.800%  |
|                               |        |       |           |          |       |          |
| Target Compounds              |        |       |           |          |       | Qvalue   |
| 12) 1,1-Dichloroethene        | 2.578  | 96    | 1335724   | 151.212  | ug/L  | # 77     |
| 19) 1,1-Dichloroethane        | 3.867  | 63    | 26359     | 1.632    | ug/L  | 98       |
| 22) cis-1,2-Dichloroethene    | 4.662  | 96    | 48778     | 4.844    | ug/L  | 96       |
| 25) Chloroform                | 5.083  | 83    | 86156     | 4.911    | ug/L  | 96       |
| 29) 1,1,1-Trichloroethane     | 5.314  | 97    | 156327    | 10.160   | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.520  | 117   | 65231     | 4.877    | ug/L  | 96       |
| 33) Benzene                   | 5.771  | 78    | 21656     | 0.561    | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95    | 5135075   | 488.449  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97    | 4459m     | 0.622    | ug/L  |          |
| 47) Tetrachloroethene         | 8.562  | 164   | 24763306m | 2971.876 | ug/L  |          |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146   | 8543      | 0.417    | ug/L  | 90       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146   | 7520      | 0.364    | ug/L  | 93       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146   | 9049      | 0.479    | ug/L  | 95       |
| -----                         |        |       |           |          |       |          |

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

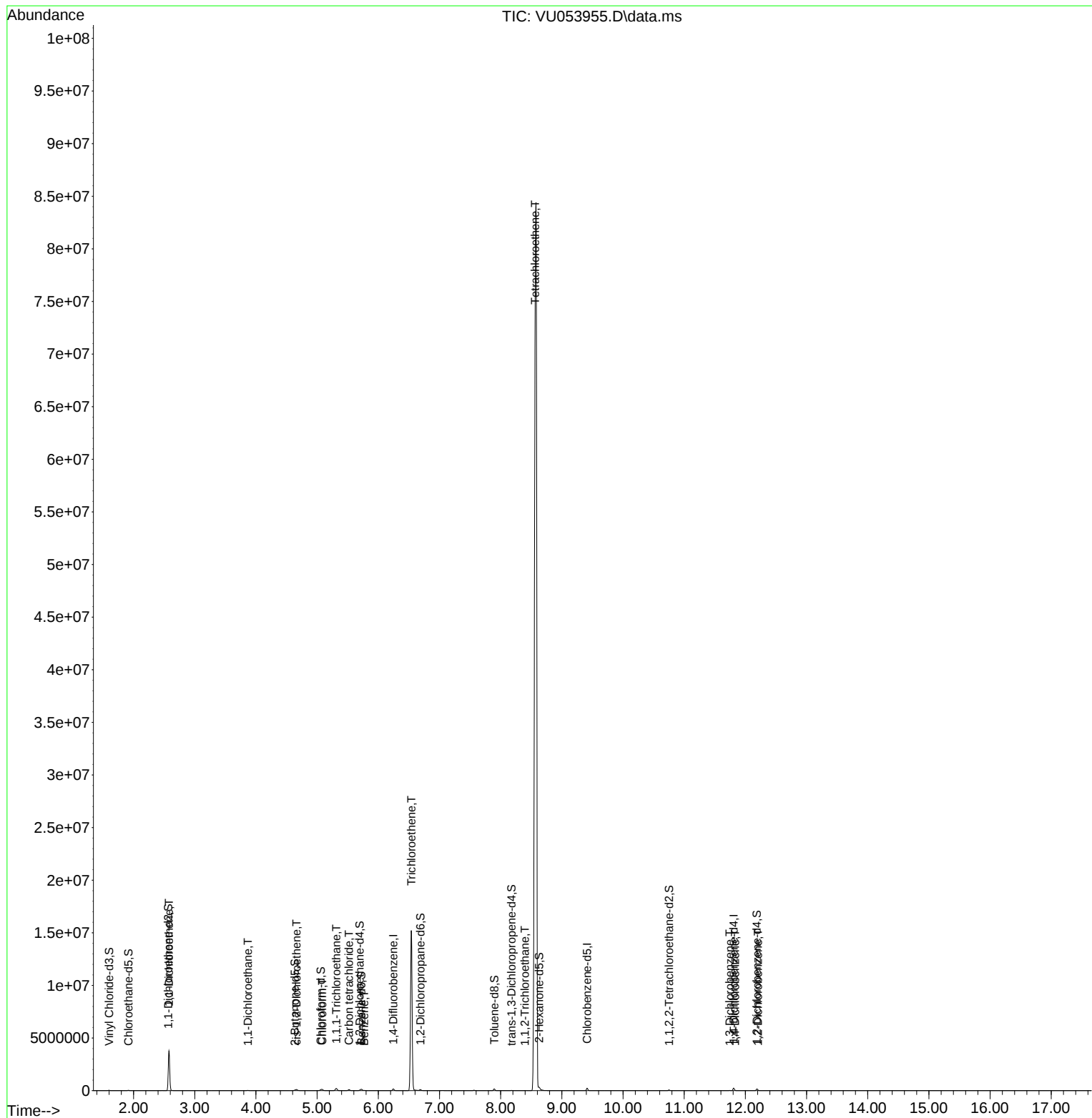
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU042823\  
Data File : VU053955.D  
Acq On : 27 Apr 2023 23:17  
Operator : JC/MD  
Sample : 02528-02  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 19 Sample Multiplier: 1

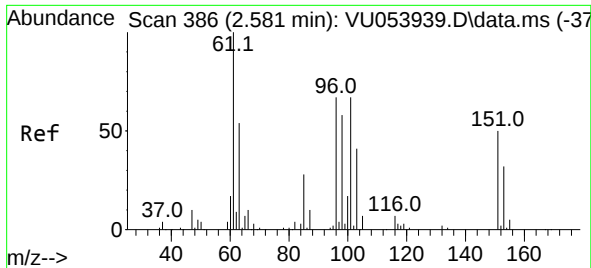
Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA34

Quant Time: Apr 28 07:22:11 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR042423WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Apr 27 05:52:18 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 05/01/2023  
Supervised By :Mahesh Dadoda 05/01/2023





#12

1,1-Dichloroethene

Concen: 151.212 ug/L

RT: 2.578 min Scan# 386

Delta R.T. 0.000 min

Lab File: VU053955.D

Acq: 27 Apr 2023 23:17

Instrument :

MSVOA\_U

ClientSampleId :

HOA34

Tgt Ion: 96 Resp: 1335724

Ion Ratio Lower Upper

96 100

61 149.3 111.5 207.1

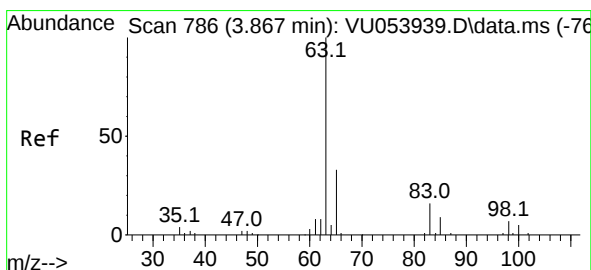
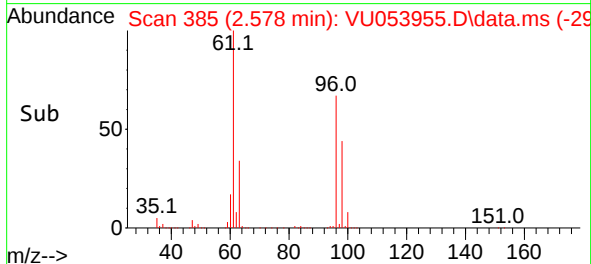
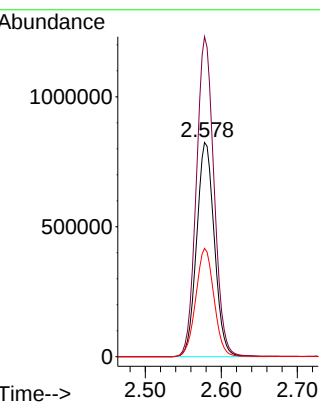
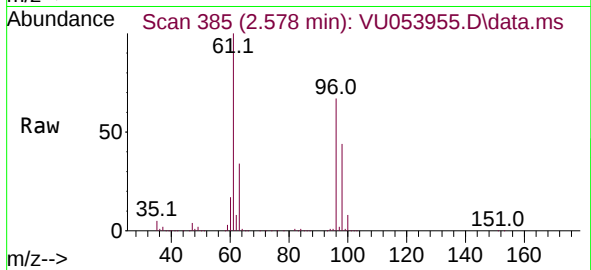
63 50.6 68.7 127.7

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 05/01/2023

Supervised By :Mahesh Dadoda 05/01/2023



#19

1,1-Dichloroethane

Concen: 1.632 ug/L

RT: 3.867 min Scan# 786

Delta R.T. 0.003 min

Lab File: VU053955.D

Acq: 27 Apr 2023 23:17

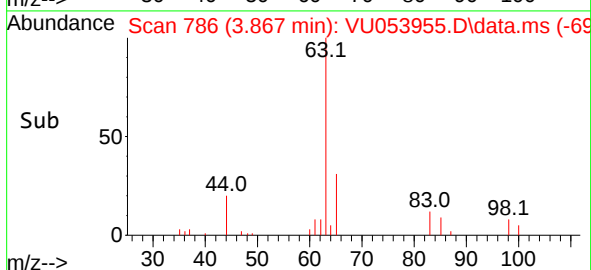
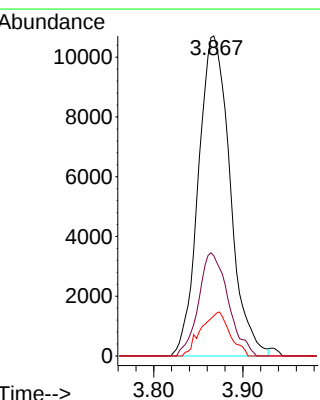
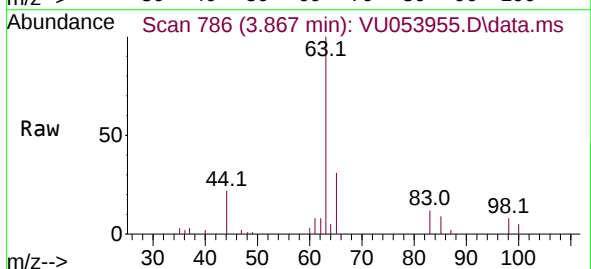
Tgt Ion: 63 Resp: 26359

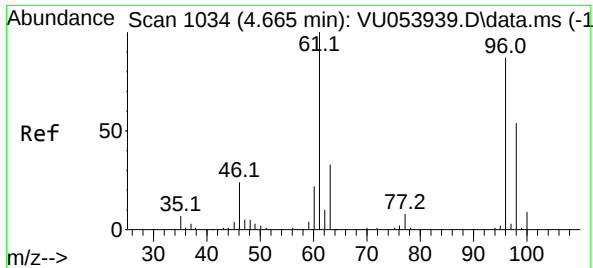
Ion Ratio Lower Upper

63 100

65 31.3 22.0 40.8

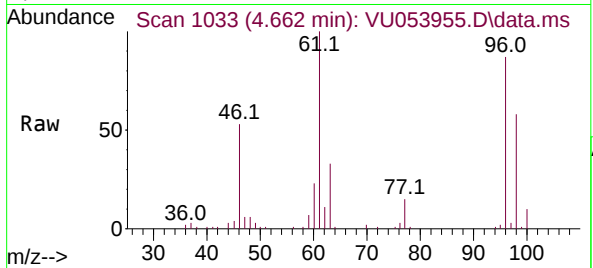
83 12.5 10.3 19.1





#22  
cis-1,2-Dichloroethene  
Concen: 4.844 ug/L  
RT: 4.662 min Scan# 1034  
Delta R.T. 0.000 min  
Lab File: VU053955.D  
Acq: 27 Apr 2023 23:17

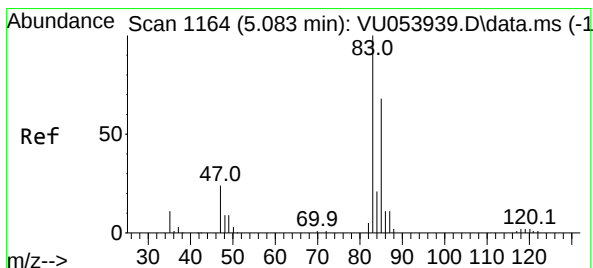
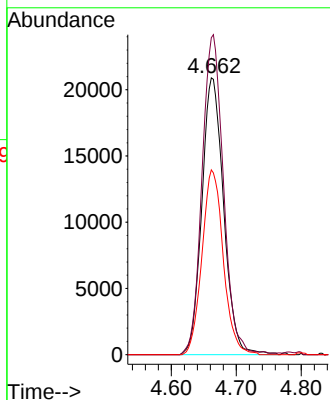
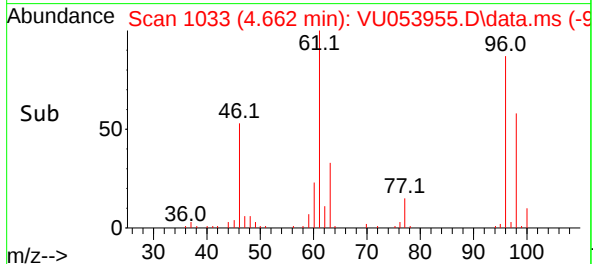
Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA34



Tgt Ion: 96 Resp: 48778  
Ion Ratio Lower Upper  
96 100  
61 114.5 84.3 156.5  
98 66.7 46.4 86.2

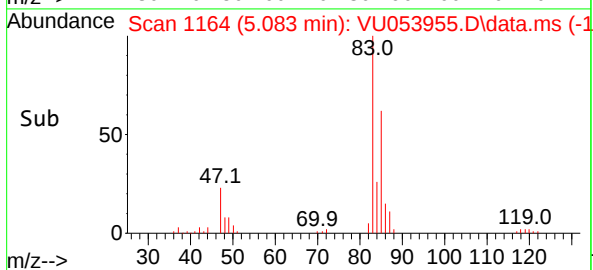
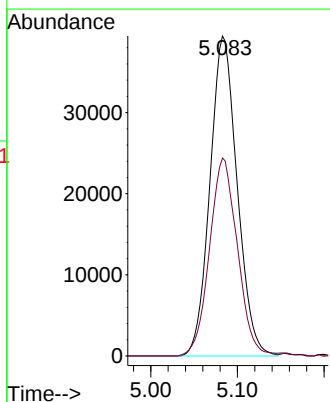
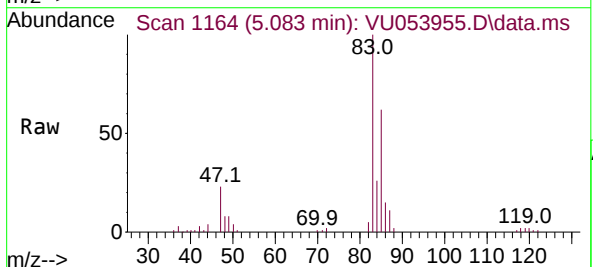
Manual Integrations  
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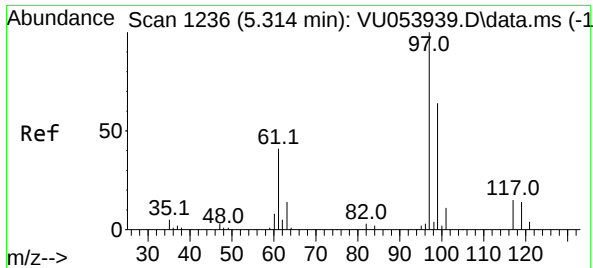
Reviewed By :Krupa Patel 05/01/2023  
Supervised By :Mahesh Dadoda 05/01/2023



#25  
Chloroform  
Concen: 4.911 ug/L  
RT: 5.083 min Scan# 1164  
Delta R.T. -0.003 min  
Lab File: VU053955.D  
Acq: 27 Apr 2023 23:17

Tgt Ion: 83 Resp: 86156  
Ion Ratio Lower Upper  
83 100  
85 61.9 45.6 84.8





#29

1,1,1-Trichloroethane

Concen: 10.160 ug/L

RT: 5.314 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU053955.D

Acq: 27 Apr 2023 23:17

Instrument :

MSVOA\_U

ClientSampleId :

HOA34

Tgt Ion: 97 Resp: 15632

Ion Ratio Lower Upper

97 100

99 64.2 52.9 79.3

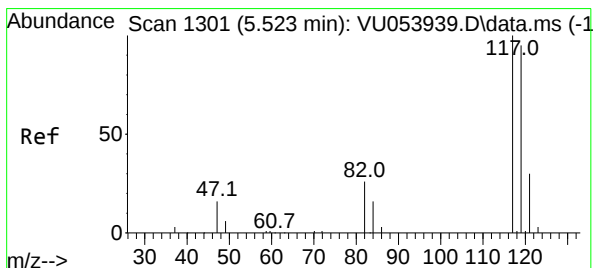
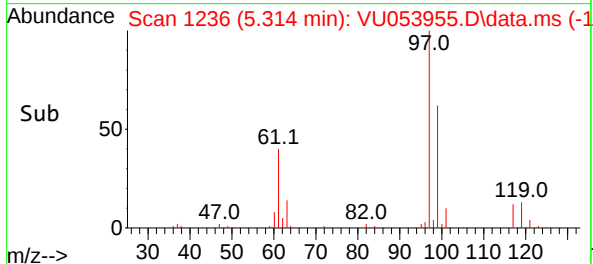
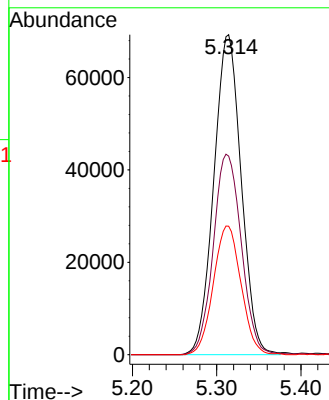
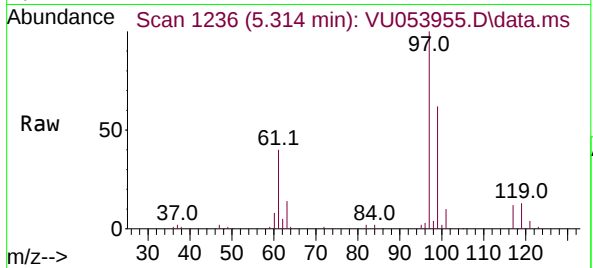
61 40.6 33.8 50.8

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 05/01/2023

Supervised By :Mahesh Dadoda 05/01/2023



#31

Carbon tetrachloride

Concen: 4.877 ug/L

RT: 5.520 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VU053955.D

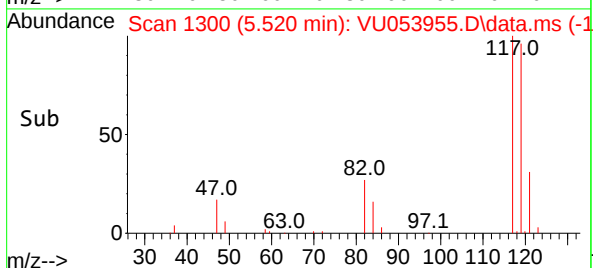
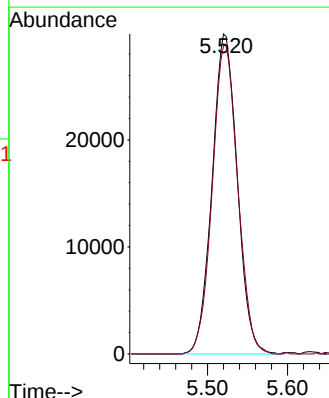
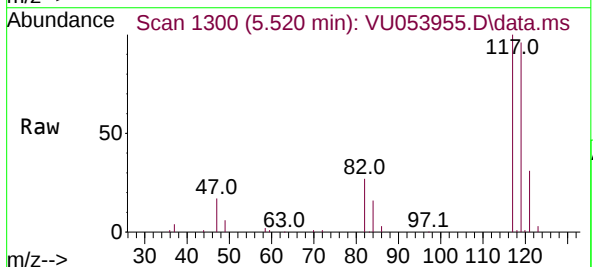
Acq: 27 Apr 2023 23:17

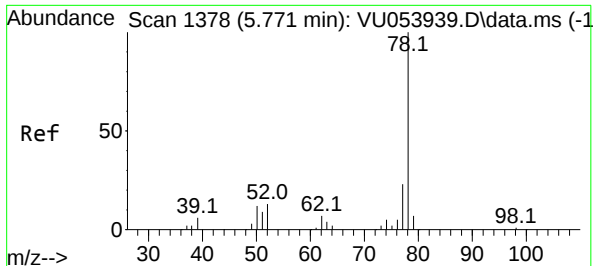
Tgt Ion:117 Resp: 65231

Ion Ratio Lower Upper

117 100

119 97.6 75.0 112.6





#33

Benzene

Concen: 0.561 ug/L

RT: 5.771 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU053955.D

Acq: 27 Apr 2023 23:17

Instrument :

MSVOA\_U

ClientSampleId :

HOA34

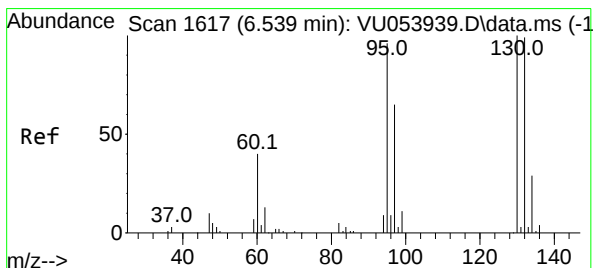
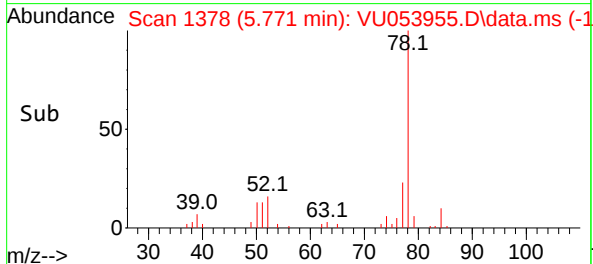
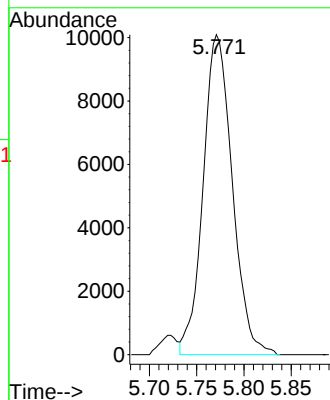
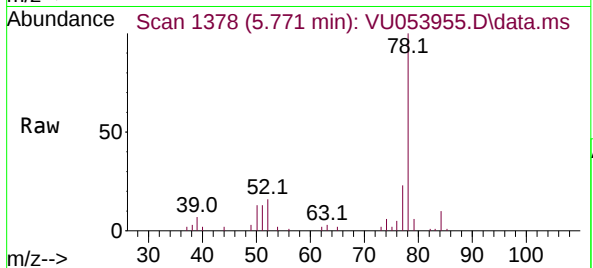
Tgt Ion: 78 Resp: 2165

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 05/01/2023

Supervised By :Mahesh Dadoda 05/01/2023



#34

Trichloroethene

Concen: 488.449 ug/L

RT: 6.539 min Scan# 1617

Delta R.T. 0.000 min

Lab File: VU053955.D

Acq: 27 Apr 2023 23:17

Tgt Ion: 95 Resp: 5135075

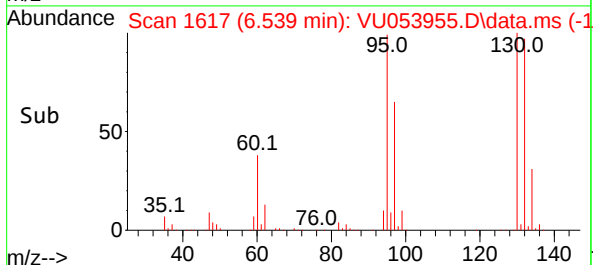
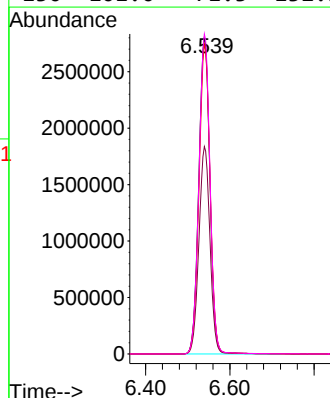
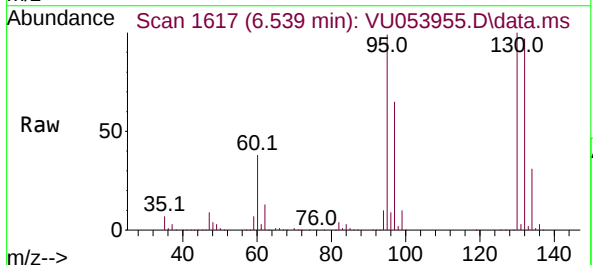
Ion Ratio Lower Upper

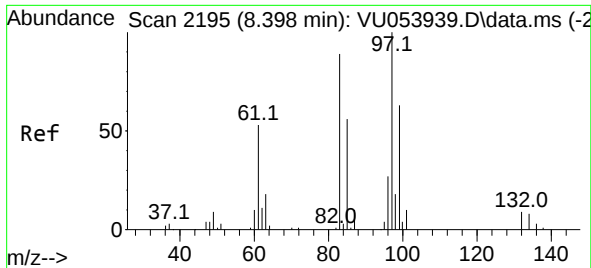
95 100

97 65.5 45.1 83.9

132 97.6 69.9 129.9

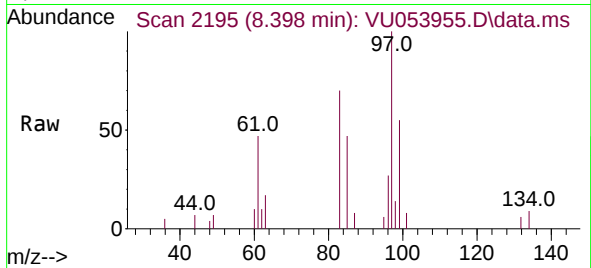
130 101.0 71.3 132.3





#45  
1,1,2-Trichloroethane  
Concen: 0.622 ug/L m  
RT: 8.398 min Scan# 2195  
Delta R.T. 0.003 min  
Lab File: VU053955.D  
Acq: 27 Apr 2023 23:17

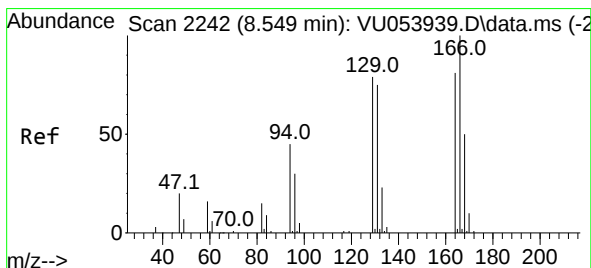
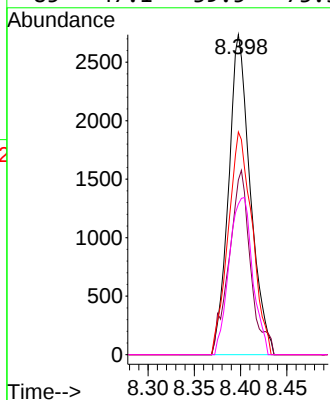
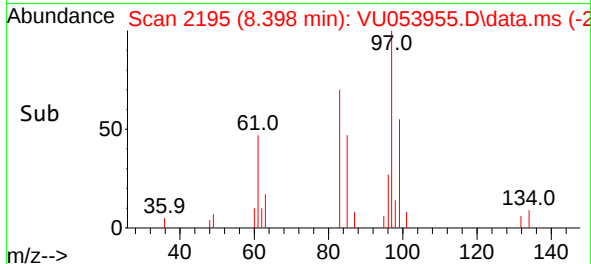
Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA34



Tgt Ion: 97 Resp: 445  
Ion Ratio Lower Upper  
97 100  
99 54.6 44.7 83.1  
83 69.6 59.8 111.1  
85 47.1 39.5 73.3

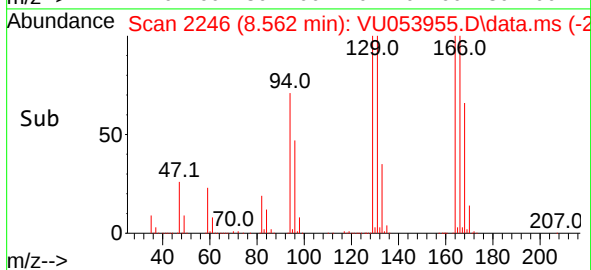
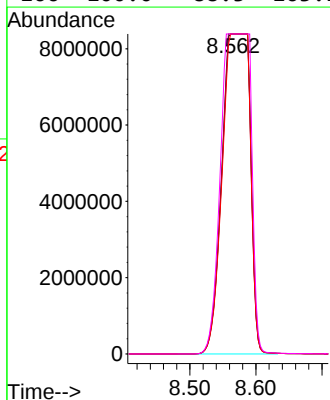
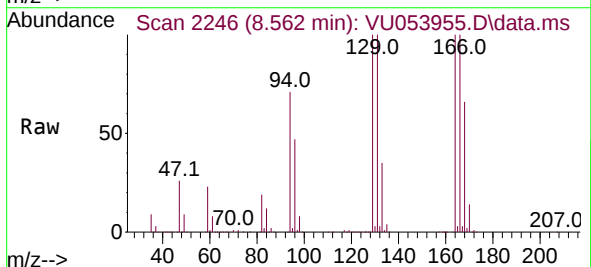
Manual Integrations  
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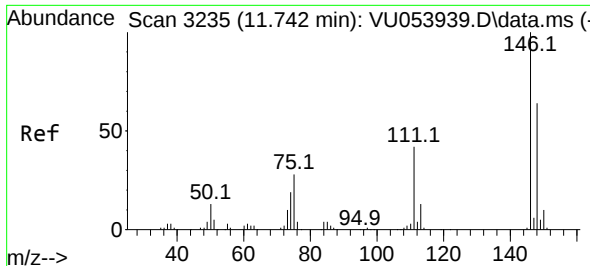
Reviewed By :Krupa Patel 05/01/2023  
Supervised By :Mahesh Dadoda 05/01/2023



#47  
Tetrachloroethene  
Concen: 2971.876 ug/L m  
RT: 8.562 min Scan# 2246  
Delta R.T. 0.013 min  
Lab File: VU053955.D  
Acq: 27 Apr 2023 23:17

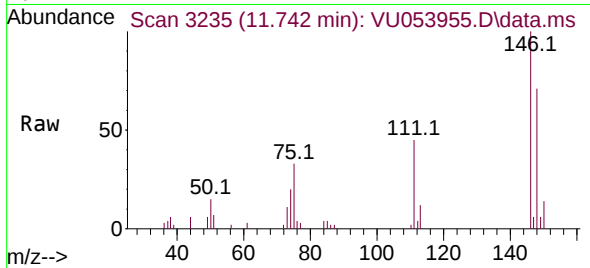
Tgt Ion:164 Resp:24763306  
Ion Ratio Lower Upper  
164 100  
129 100.0 68.3 126.8  
131 100.0 64.4 119.6  
166 100.0 88.3 163.9





#64  
1,3-Dichlorobenzene  
Concen: 0.417 ug/L  
RT: 11.742 min Scan# 3235  
Delta R.T. 0.000 min  
Lab File: VU053955.D  
Acq: 27 Apr 2023 23:17

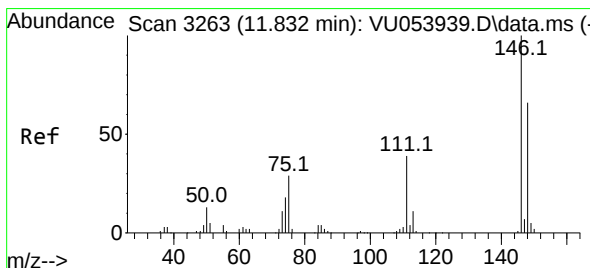
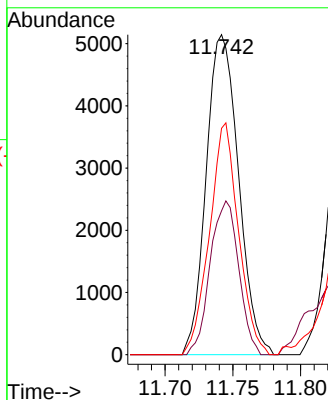
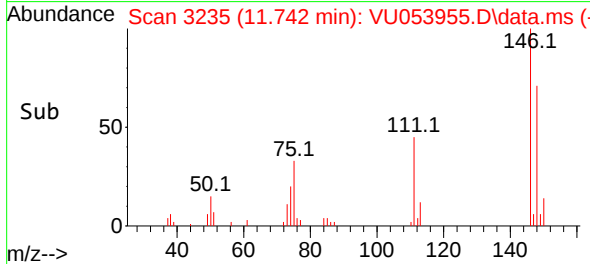
Instrument :  
MSVOA\_U  
ClientSampleId :  
HOA34



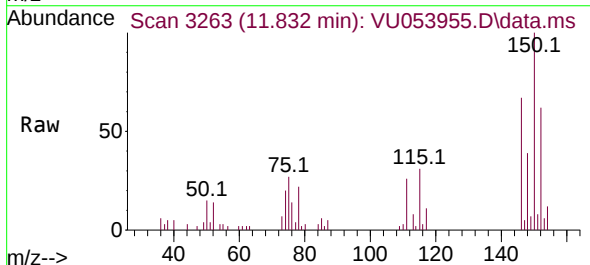
Tgt Ion:146 Resp: 854  
Ion Ratio Lower Upper  
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111 45.0 27.9 51.9  
148 70.8 43.7 81.1

Manual Integrations  
APPROVED

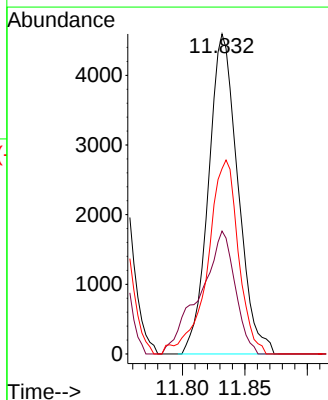
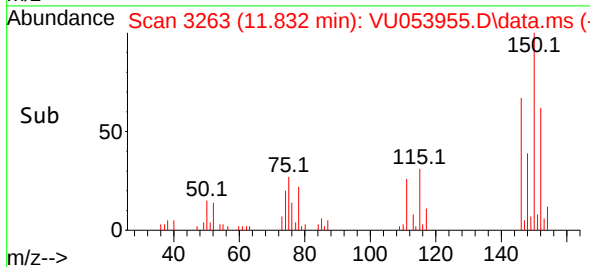
Reviewed By :Krupa Patel 05/01/2023  
Supervised By :Mahesh Dadoda 05/01/2023

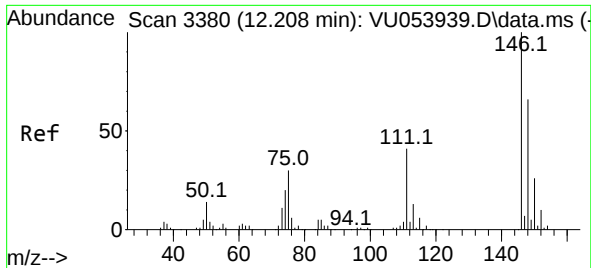


#65  
1,4-Dichlorobenzene  
Concen: 0.364 ug/L  
RT: 11.832 min Scan# 3263  
Delta R.T. 0.000 min  
Lab File: VU053955.D  
Acq: 27 Apr 2023 23:17



Tgt Ion:146 Resp: 7520  
Ion Ratio Lower Upper  
146 100  
111 38.4 28.3 52.7  
148 57.9 45.4 84.2





#67

1,2-Dichlorobenzene

Concen: 0.479 ug/L

RT: 12.208 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU053955.D

Acq: 27 Apr 2023 23:17

Instrument :

MSVOA\_U

ClientSampleId :

HOA34

Tgt Ion:146 Resp: 9049

Ion Ratio Lower Upper

146 100

111 44.5 32.6 49.0

148 60.1 51.0 76.4

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