

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW041323\  
 Data File : VW030553.D  
 Acq On : 13 Apr 2023 18:24  
 Operator : SY/MD  
 Sample : 02254-16  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AA6

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/14/2023  
 Supervised By : Mahesh Dadoda 04/14/2023

Quant Time: Apr 14 05:23:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR032323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Apr 14 05:16:37 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc Units | Dev(Min) |
|----------------------------|--------|------|----------|------------|----------|
| -----                      |        |      |          |            |          |
| Internal Standards         |        |      |          |            |          |
| 1) 1,4-Difluorobenzene     | 5.548  | 114  | 134115   | 5.000 ug/L | 0.00     |
| 28) Chlorobenzene-d5       | 8.796  | 117  | 128819   | 5.000 ug/L | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.194 | 152  | 59750    | 5.000 ug/L | 0.00     |

## System Monitoring Compounds

|                               |        |       |          |              |               |
|-------------------------------|--------|-------|----------|--------------|---------------|
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 53482    | 6.021 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery     | = 120.400%    |
| 7) Chloroethane-d5            | 1.536  | 69    | 41458    | 4.810 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery     | = 96.200%     |
| 11) 1,1-Dichloroethene-d2     | 2.069  | 63    | 15129955 | 717.825 ug/L | 0.00          |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery     | = 14356.400%# |
| 20) 2-Butanone-d5             | 3.822  | 46    | 99678    | 43.416 ug/L  | -0.02         |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery     | = 86.840%     |
| 24) Chloroform-d              | 4.265  | 84    | 88512    | 4.117 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery     | = 82.400%     |
| 26) 1,2-Dichloroethane-d4     | 4.960  | 65    | 47606    | 4.693 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery     | = 93.800%     |
| 32) Benzene-d6                | 4.976  | 84    | 165780   | 4.567 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery     | = 91.400%     |
| 36) 1,2-Dichloropropane-d6    | 6.002  | 67    | 50013    | 4.401 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery     | = 88.000%     |
| 41) Toluene-d8                | 7.252  | 98    | 135090   | 4.052 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery     | = 81.000%     |
| 43) trans-1,3-Dichloroprop... | 7.568  | 79    | 17268    | 4.036 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery     | = 80.800%     |
| 46) 2-Hexanone-d5             | 8.037  | 63    | 67973    | 39.533 ug/L  | 0.00          |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery     | = 79.060%     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.162 | 84    | 35485    | 3.962 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery     | = 79.200%     |
| 66) 1,2-Dichlorobenzene-d4    | 11.571 | 152   | 49515    | 4.637 ug/L   | 0.00          |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery     | = 92.800%     |

## Target Compounds

|                            |       |     |           |               | Qvalue |
|----------------------------|-------|-----|-----------|---------------|--------|
| 5) Vinyl chloride          | 1.285 | 62  | 149267m   | 9.517 ug/L    |        |
| 8) Chloroethane            | 1.552 | 64  | 5268      | 0.586 ug/L    | 99     |
| 9) Trichlorofluoromethane  | 1.716 | 101 | 1773      | 0.078 ug/L    | 91     |
| 12) 1,1-Dichloroethene     | 2.063 | 96  | 19210103m | 1714.278 ug/L |        |
| 13) Acetone                | 2.143 | 43  | 9721      | 4.428 ug/L    | 88     |
| 15) Methyl Acetate         | 2.401 | 43  | 2714      | 0.692 ug/L    | 96     |
| 19) 1,1-Dichloroethane     | 3.121 | 63  | 8297633   | 362.561 ug/L  | 97     |
| 21) 2-Butanone             | 3.921 | 43  | 20426     | 7.392 ug/L    | 98     |
| 22) cis-1,2-Dichloroethene | 3.831 | 96  | 3399      | 0.287 ug/L    | 96     |
| 25) Chloroform             | 4.294 | 83  | 41627     | 1.800 ug/L    | 100    |
| 27) 1,2-Dichloroethane     | 5.060 | 62  | 62162     | 4.445 ug/L    | 96     |
| 29) 1,1,1-Trichloroethane  | 4.523 | 97  | 58546709m | 2827.675 ug/L |        |
| 34) Trichloroethene        | 5.841 | 95  | 729367    | 59.107 ug/L   | 98     |
| 45) 1,1,2-Trichloroethane  | 7.783 | 97  | 3288      | 0.398 ug/L    | 95     |
| 47) Tetrachloroethene      | 7.915 | 164 | 20189     | 1.854 ug/L    | 99     |

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

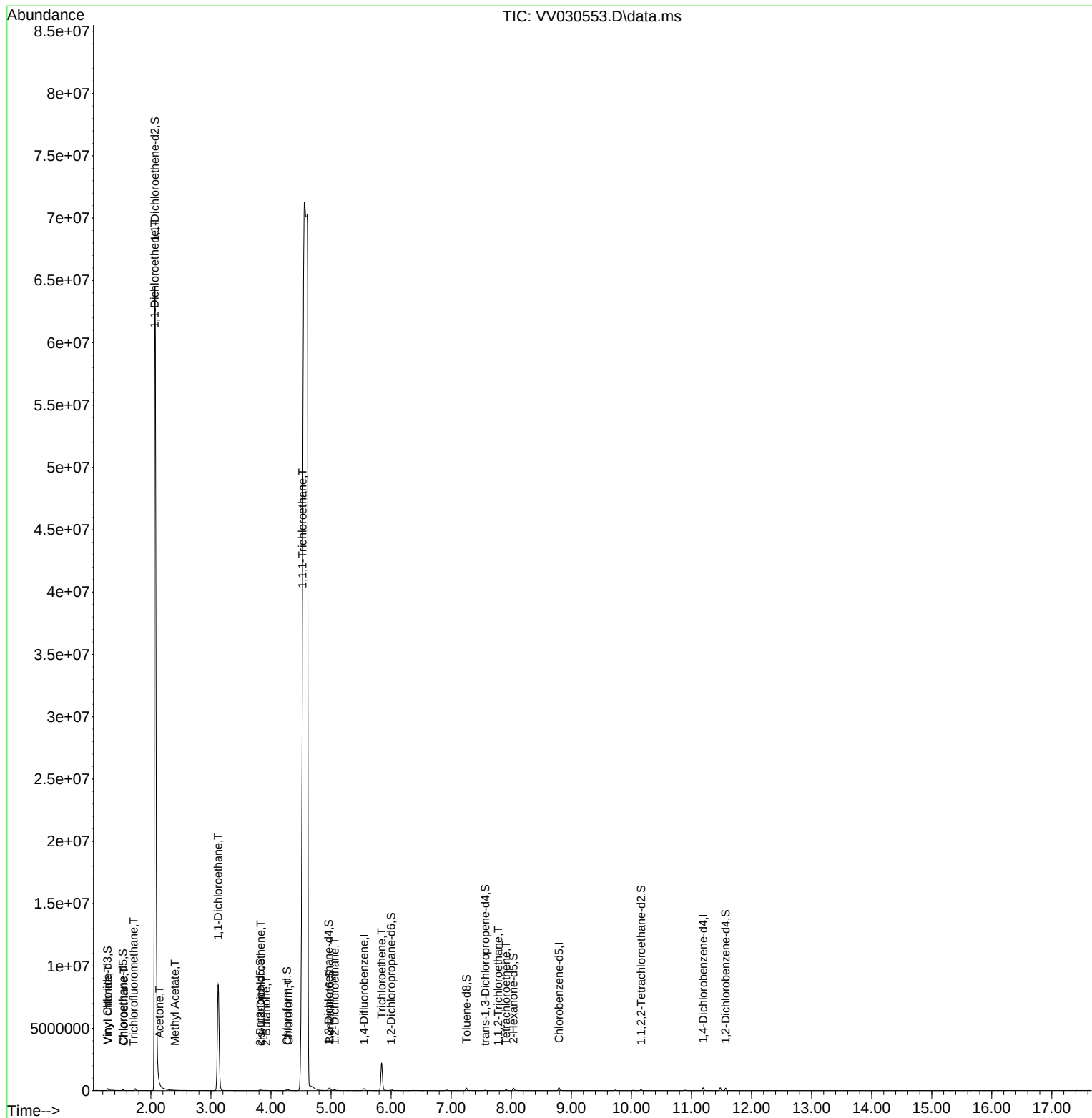
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV041323\  
Data File : VV030553.D  
Acq On : 13 Apr 2023 18:24  
Operator : SY/MD  
Sample : 02254-16  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 23 Sample Multiplier: 1

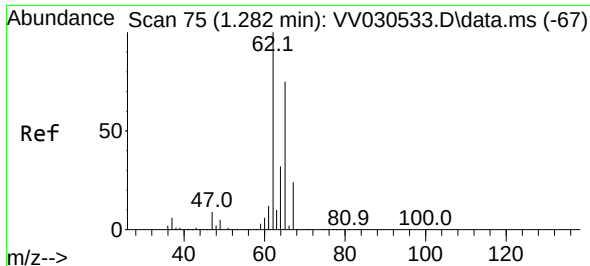
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA6

Manual Integrations  
APPROVED

Reviewed By : John Carlone 04/14/2023  
Supervised By : Mahesh Dadoda 04/14/2023

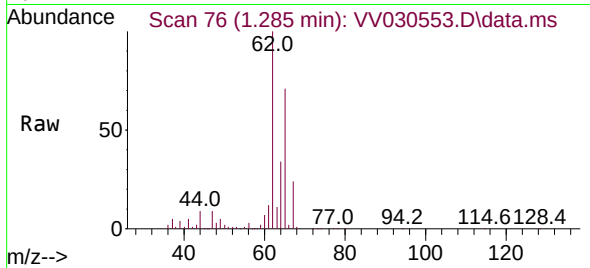
Quant Time: Apr 14 05:23:33 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR032323WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Apr 14 05:16:37 2023  
Response via : Initial Calibration





#5  
 Vinyl chloride  
 Concen: 9.517 ug/L m  
 RT: 1.285 min Scan# 75  
 Delta R.T. 0.003 min  
 Lab File: VV030533.D  
 Acq: 13 Apr 2023 18:24

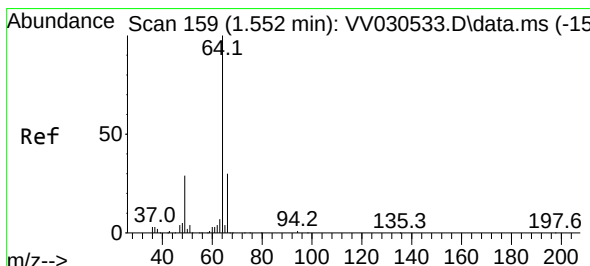
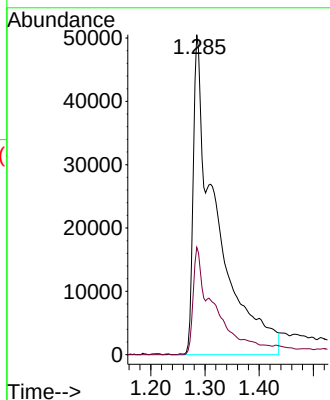
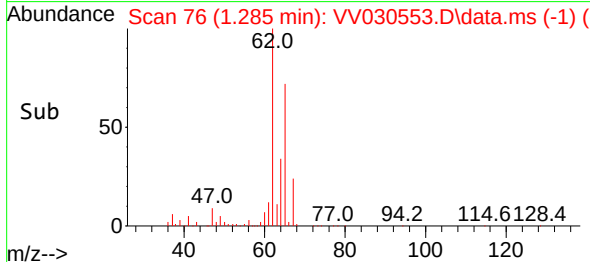
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AA6



Tgt Ion: 62 Resp: 14926  
 Ion Ratio Lower Upper  
 62 100  
 64 33.5 23.2 43.2

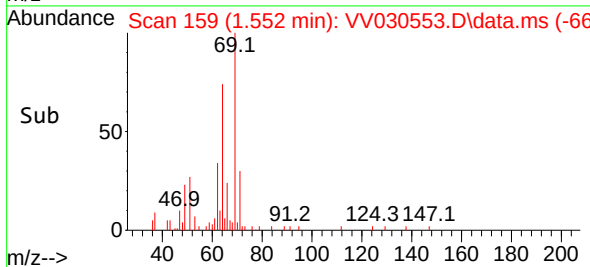
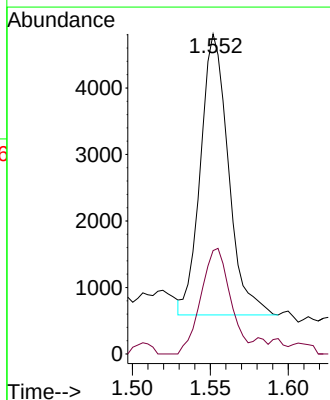
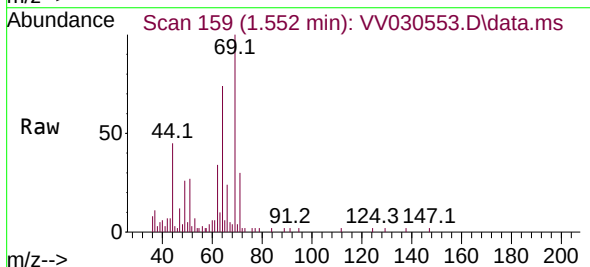
Manual Integrations  
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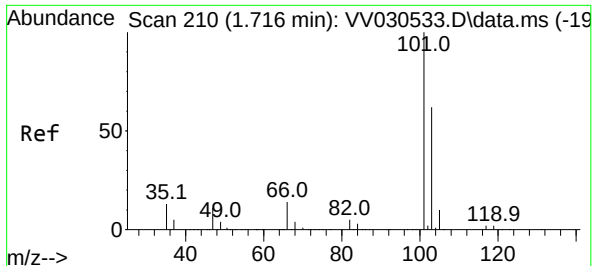
Reviewed By :John Carlone 04/14/2023  
 Supervised By :Mahesh Dadoda 04/14/2023



#8  
 Chloroethane  
 Concen: 0.586 ug/L  
 RT: 1.552 min Scan# 159  
 Delta R.T. 0.000 min  
 Lab File: VV030533.D  
 Acq: 13 Apr 2023 18:24

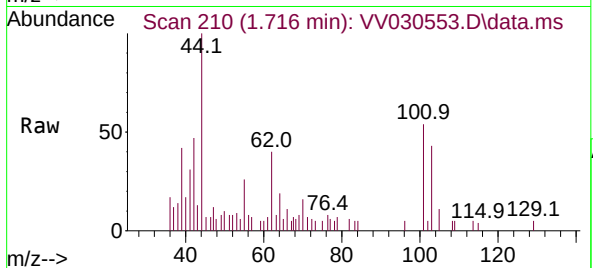
Tgt Ion: 64 Resp: 5268  
 Ion Ratio Lower Upper  
 64 100  
 66 32.3 23.0 42.8





#9  
Trichlorofluoromethane  
Concen: 0.078 ug/L  
RT: 1.716 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: VV030533.D  
Acq: 13 Apr 2023 18:24

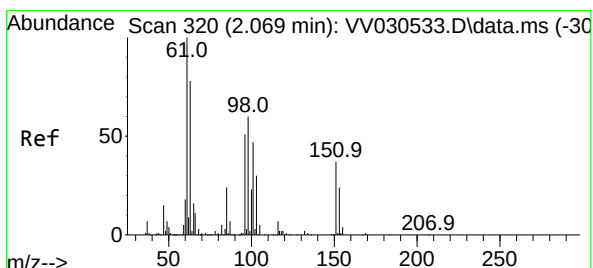
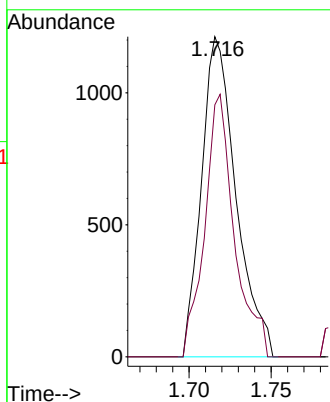
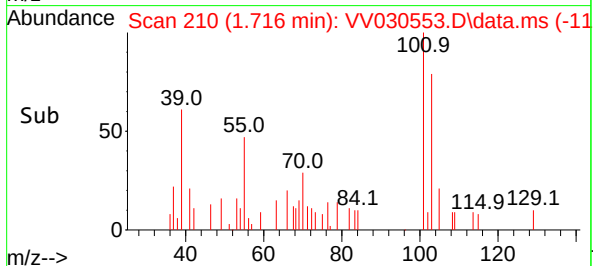
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA6



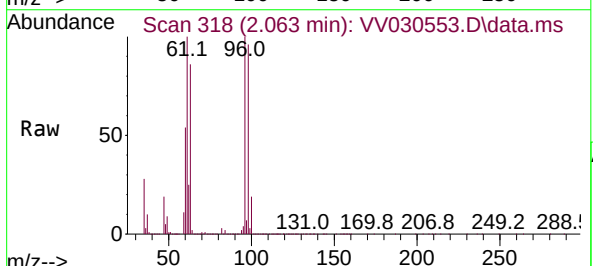
Tgt Ion:101 Resp: 177  
Ion Ratio Lower Upper  
101 100  
103 70.4 51.0 76.6

Manual Integrations  
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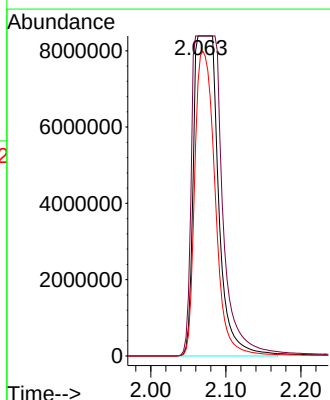
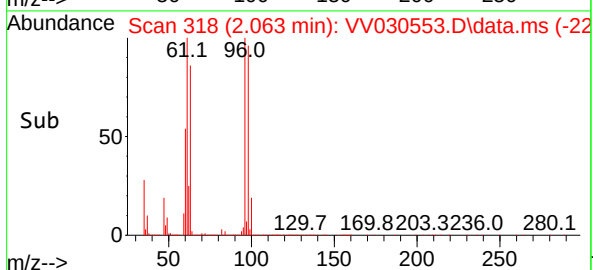
Reviewed By :John Carlone 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023

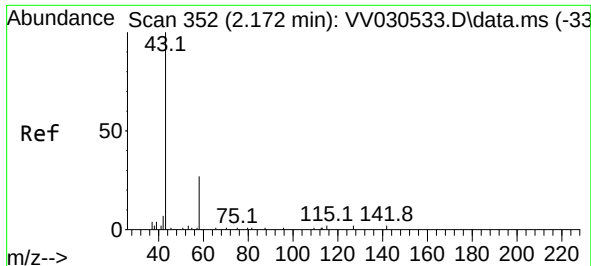


#12  
1,1-Dichloroethene  
Concen: 1714.278 ug/L m  
RT: 2.063 min Scan# 318  
Delta R.T. -0.006 min  
Lab File: VV030533.D  
Acq: 13 Apr 2023 18:24



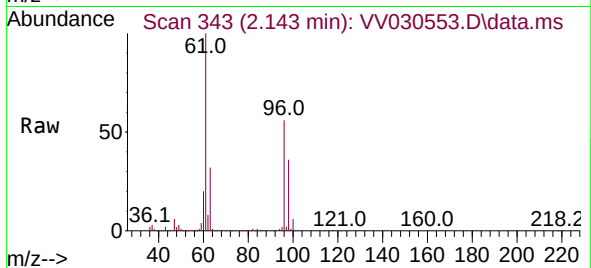
Tgt Ion: 96 Resp:19210103  
Ion Ratio Lower Upper  
96 100  
61 100.0 136.3 253.1#  
63 85.7 92.1 171.1#





#13  
Acetone  
Concen: 4.428 ug/L  
RT: 2.143 min Scan# 341  
Delta R.T. -0.029 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

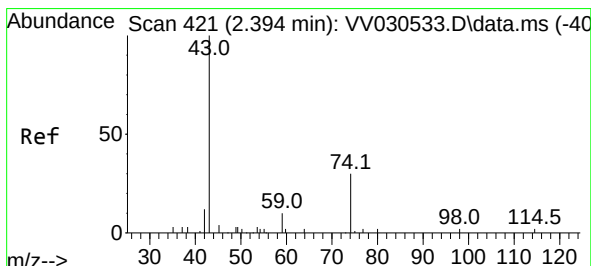
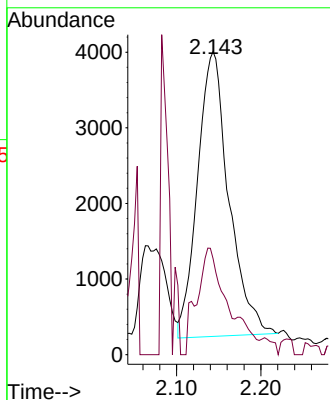
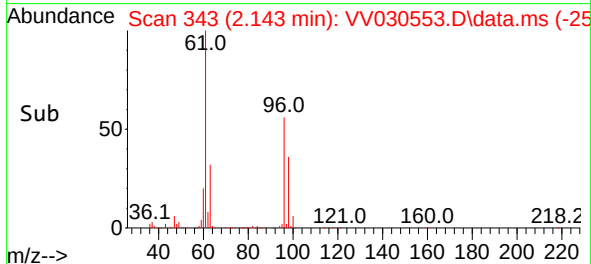
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA6



Tgt Ion: 43 Resp: 972  
Ion Ratio Lower Upper  
43 100  
58 14.9 0.0 40.8

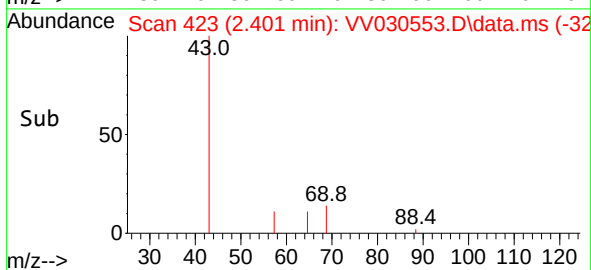
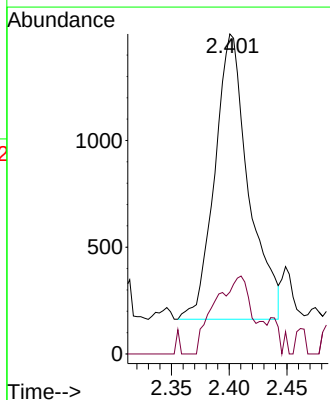
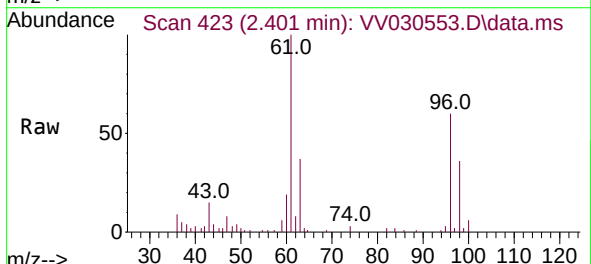
Manual Integrations  
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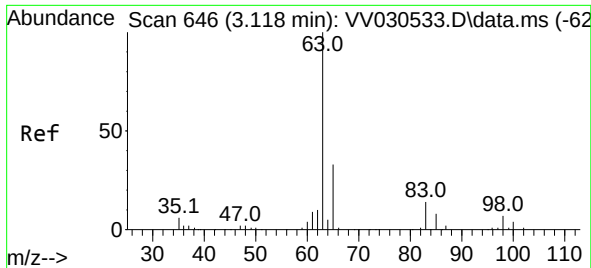
Reviewed By :John Carlone 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#15  
Methyl Acetate  
Concen: 0.692 ug/L  
RT: 2.401 min Scan# 423  
Delta R.T. 0.006 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

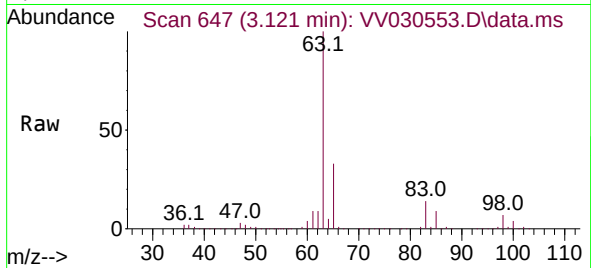
Tgt Ion: 43 Resp: 2714  
Ion Ratio Lower Upper  
43 100  
74 29.5 22.1 33.1





#19  
1,1-Dichloroethane  
Concen: 362.561 ug/L  
RT: 3.121 min Scan# 646  
Delta R.T. 0.003 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

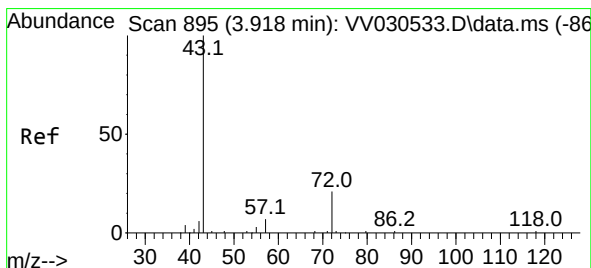
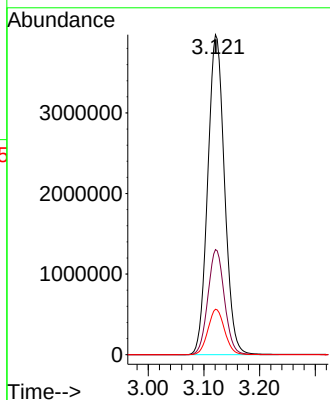
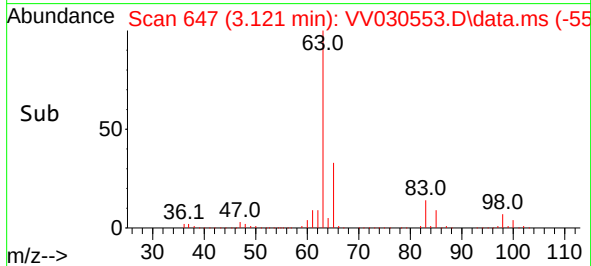
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA6



Tgt Ion: 63 Resp: 829763  
Ion Ratio Lower Upper  
63 100  
65 32.9 21.7 40.3  
83 14.2 9.1 16.9

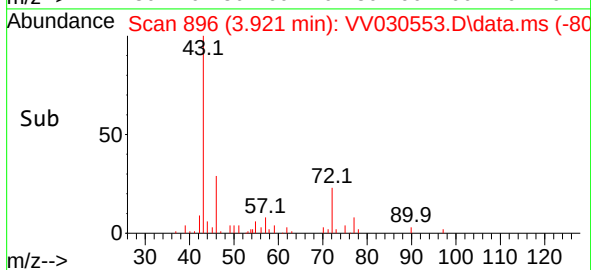
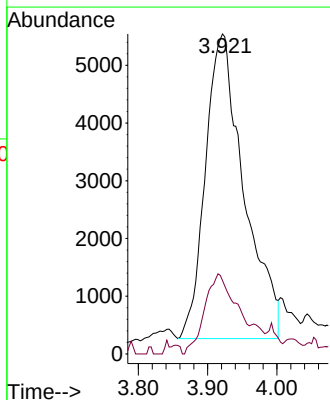
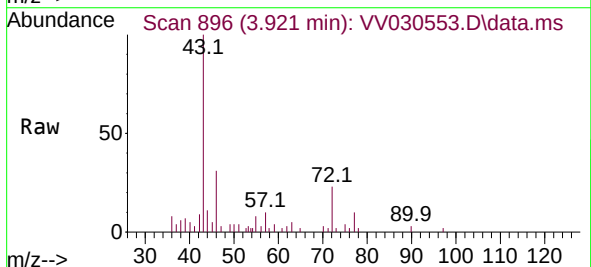
Manual Integrations  
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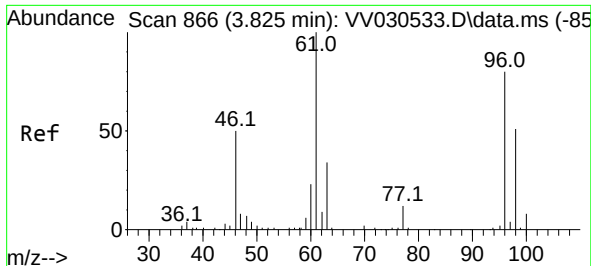
Reviewed By :John Carlone 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#21  
2-Butanone  
Concen: 7.392 ug/L  
RT: 3.921 min Scan# 896  
Delta R.T. 0.003 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

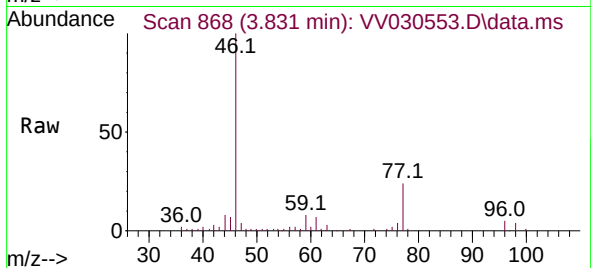
Tgt Ion: 43 Resp: 20426  
Ion Ratio Lower Upper  
43 100  
72 21.5 11.2 33.5





#22  
cis-1,2-Dichloroethene  
Concen: 0.287 ug/L  
RT: 3.831 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

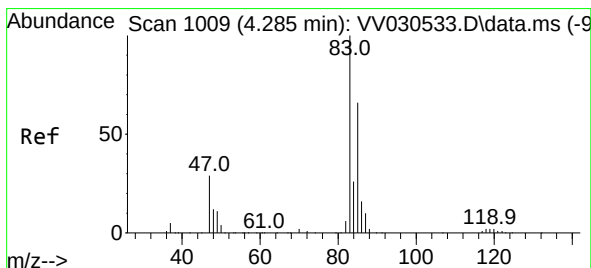
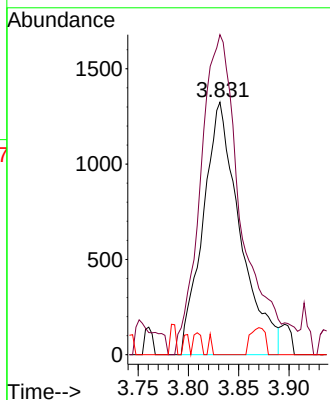
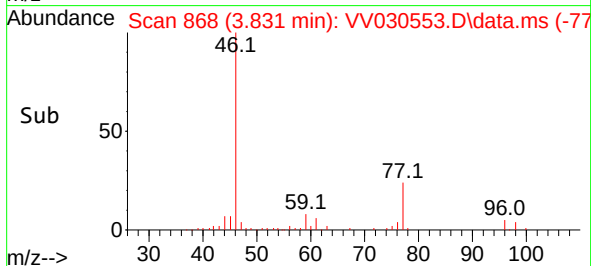
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA6



Tgt Ion: 96 Resp: 3399  
Ion Ratio Lower Upper  
96 100  
61 126.7 92.0 170.8  
68 0.0 0.0 0.0

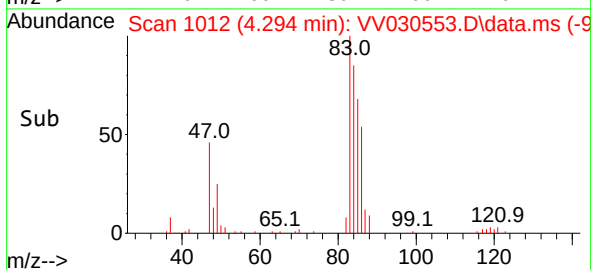
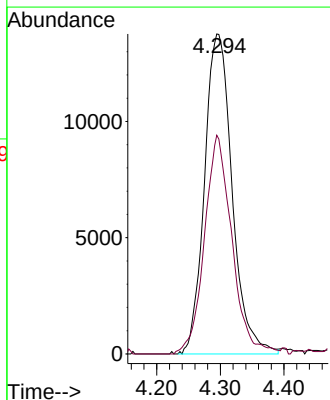
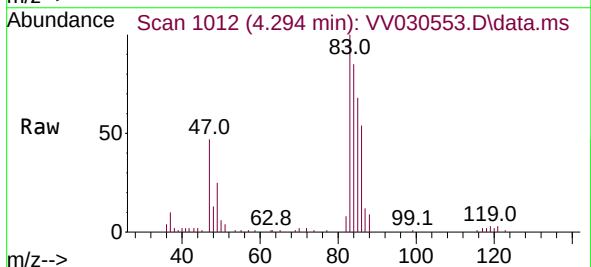
Manual Integrations  
APPROVED

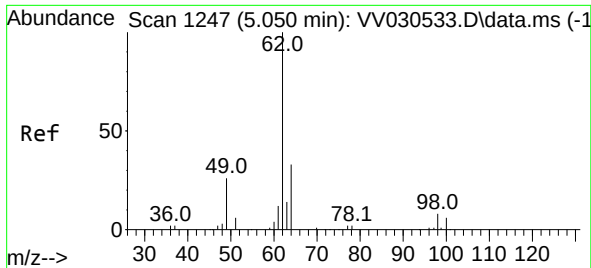
Reviewed By :John Carlone 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#25  
Chloroform  
Concen: 1.800 ug/L  
RT: 4.294 min Scan# 1012  
Delta R.T. 0.010 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

Tgt Ion: 83 Resp: 41627  
Ion Ratio Lower Upper  
83 100  
85 68.3 47.6 88.4





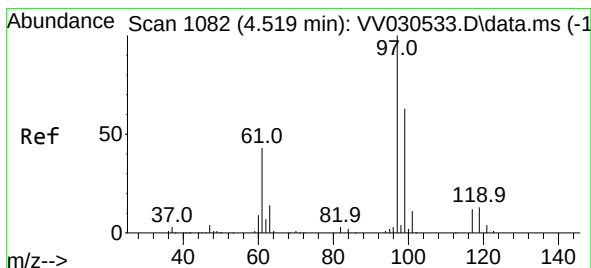
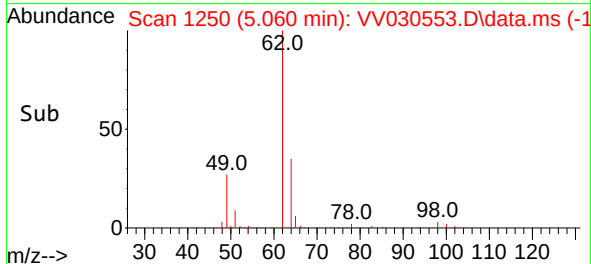
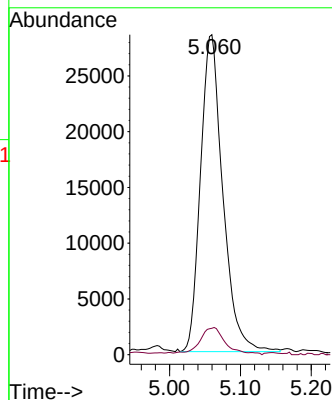
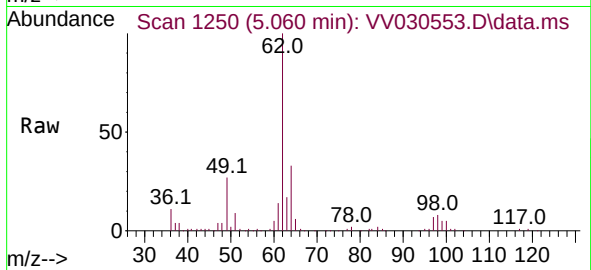
#27  
1,2-Dichloroethane  
Concen: 4.445 ug/L  
RT: 5.060 min Scan# 11  
Delta R.T. 0.010 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA6

Tgt Ion: 62 Resp: 6216  
Ion Ratio Lower Upper  
62 100  
98 8.3 7.8 11.8

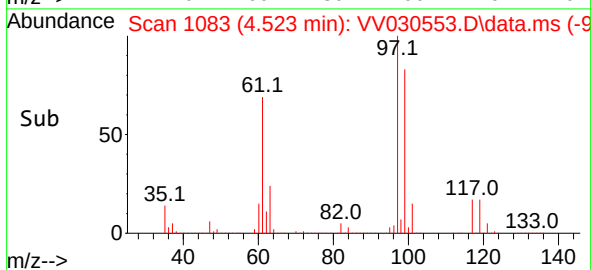
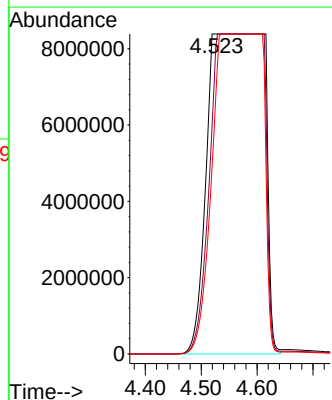
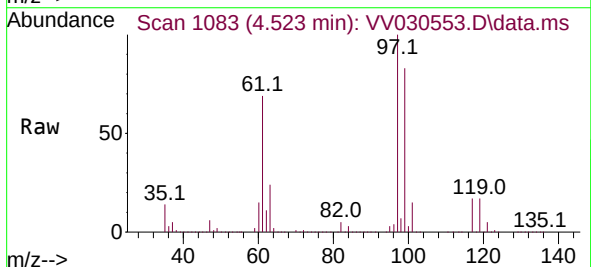
Manual Integrations  
APPROVED

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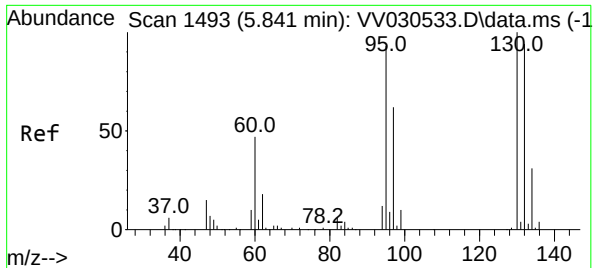


#29  
1,1,1-Trichloroethane  
Concen: 2827.675 ug/L m  
RT: 4.523 min Scan# 1083  
Delta R.T. 0.003 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

Tgt Ion: 97 Resp:58546709  
Ion Ratio Lower Upper  
97 100  
99 0.0 50.9 76.3#  
61 0.0 35.9 53.9#

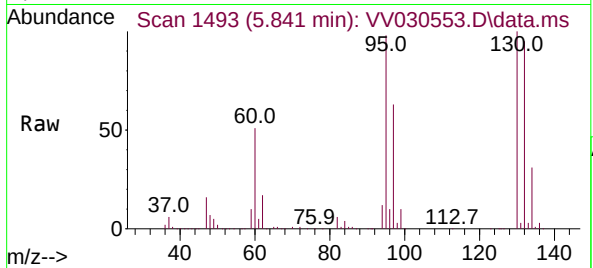






#34  
Trichloroethene  
Concen: 59.107 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

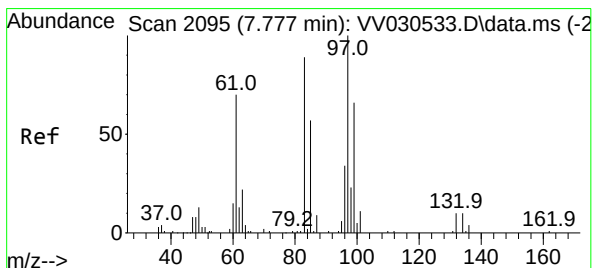
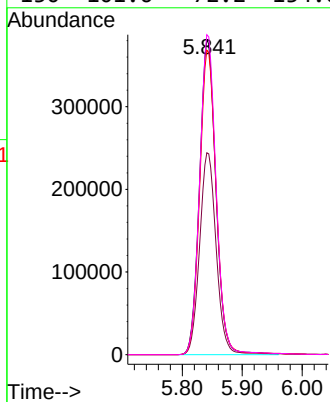
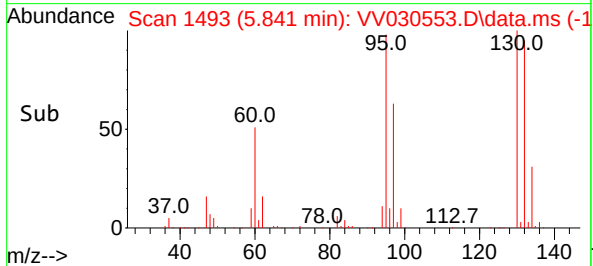
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA6



Tgt Ion: 95 Resp: 72936  
Ion Ratio Lower Upper  
95 100  
97 64.1 44.2 82.2  
132 96.6 69.5 129.1  
130 101.6 72.2 134.0

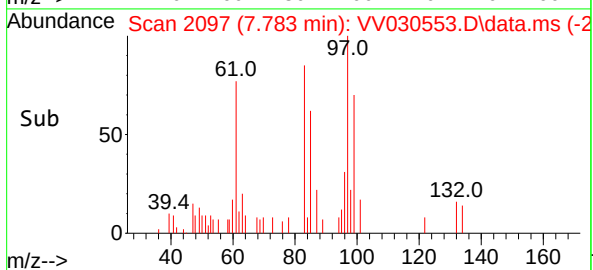
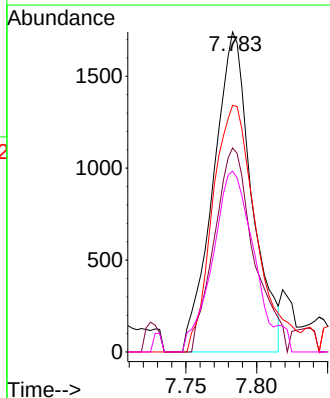
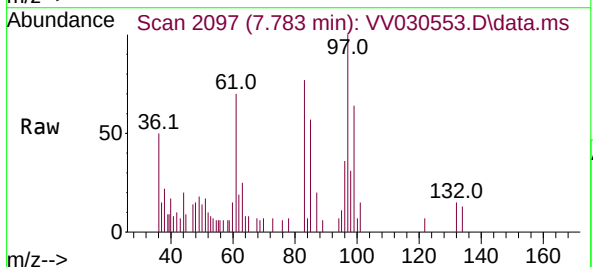
Manual Integrations  
APPROVED

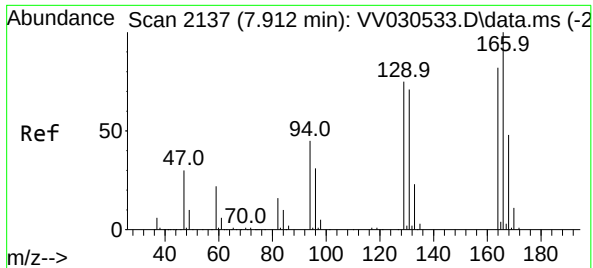
Reviewed By :John Carlone 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023



#45  
1,1,2-Trichloroethane  
Concen: 0.398 ug/L  
RT: 7.783 min Scan# 2097  
Delta R.T. 0.006 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

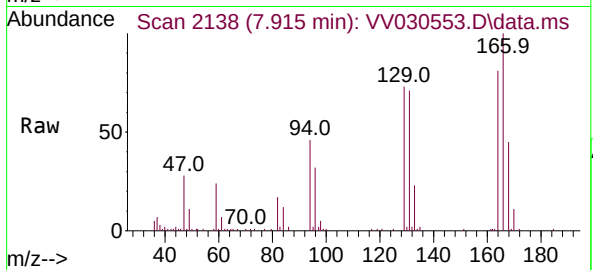
Tgt Ion: 97 Resp: 3288  
Ion Ratio Lower Upper  
97 100  
99 63.8 44.0 81.8  
83 77.1 58.8 109.2  
85 56.5 37.2 69.0





#47  
Tetrachloroethene  
Concen: 1.854 ug/L  
RT: 7.915 min Scan# 2138  
Delta R.T. 0.003 min  
Lab File: VV030553.D  
Acq: 13 Apr 2023 18:24

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA6



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 20189 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 129       | 89.5  | 60.8  | 112.8 |
| 131       | 87.3  | 61.7  | 114.7 |
| 166       | 123.0 | 85.6  | 159.0 |

Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/14/2023  
Supervised By :Mahesh Dadoda 04/14/2023

