

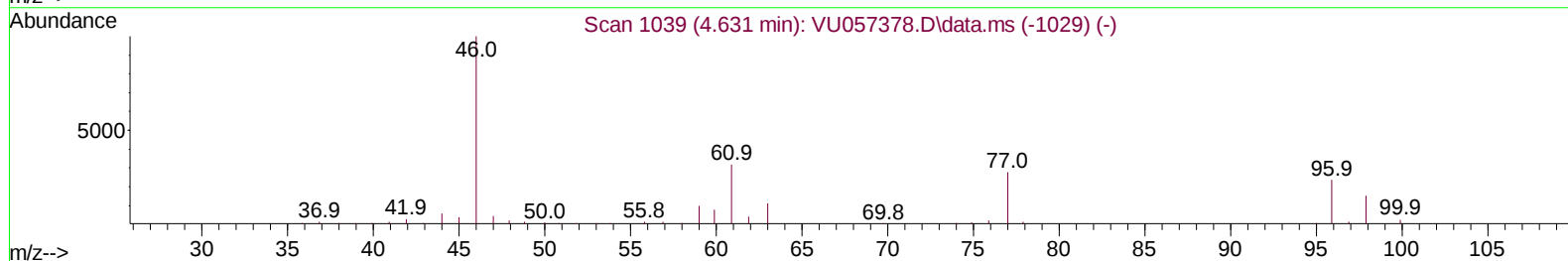
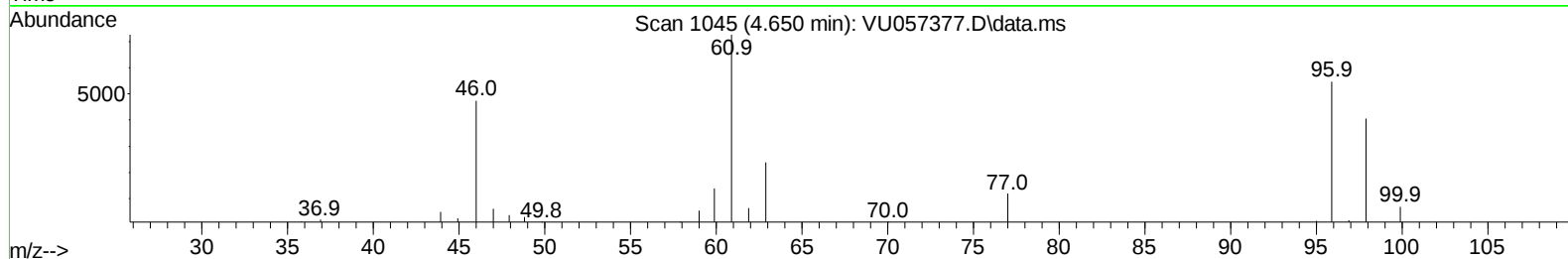
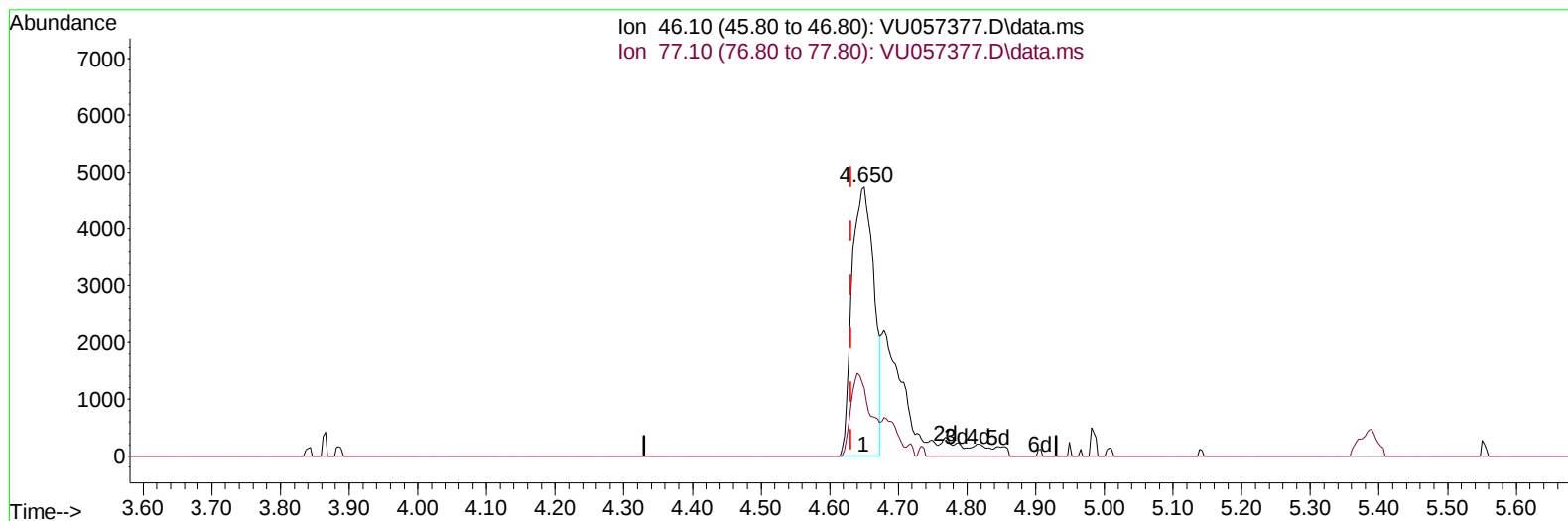
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU010824\  
 Data File : VU057377.D  
 Acq On : 08 Jan 2024 11:58  
 Operator : MD/SY  
 Sample : VSTD01042  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010042

Manual IntegrationsAPPROVED

Quant Time: Jan 09 00:20:50 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM010824WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 09 00:19:47 2024  
 Response via : Initial Calibration

Reviewed By :John Carlone 01/09/2024  
 Supervised By :Mahesh Dadoda 01/09/2024



TIC: VU057377.D\data.ms

**(21) 2-Butanone-d5 (S)**

**4.650min (+ 0.019) 12.76 ug/L**

**response 10560**

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.10 | 100.00 | 100.00 |
| 77.10 | 28.70  | 23.58  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

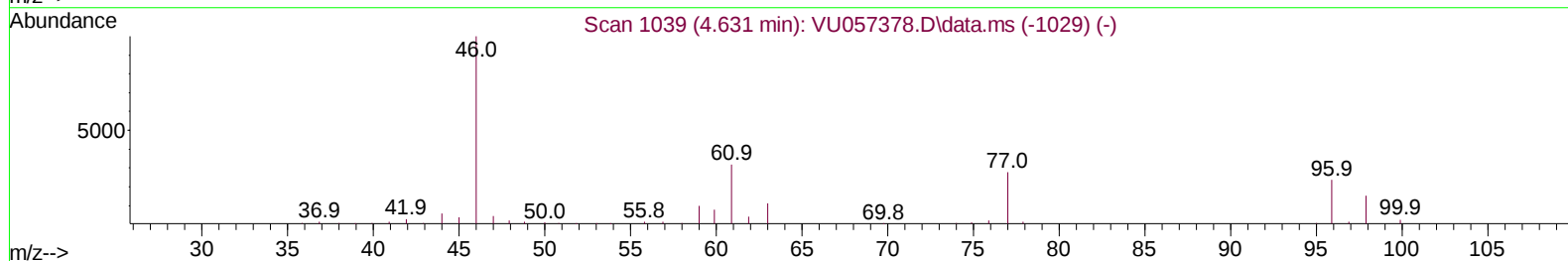
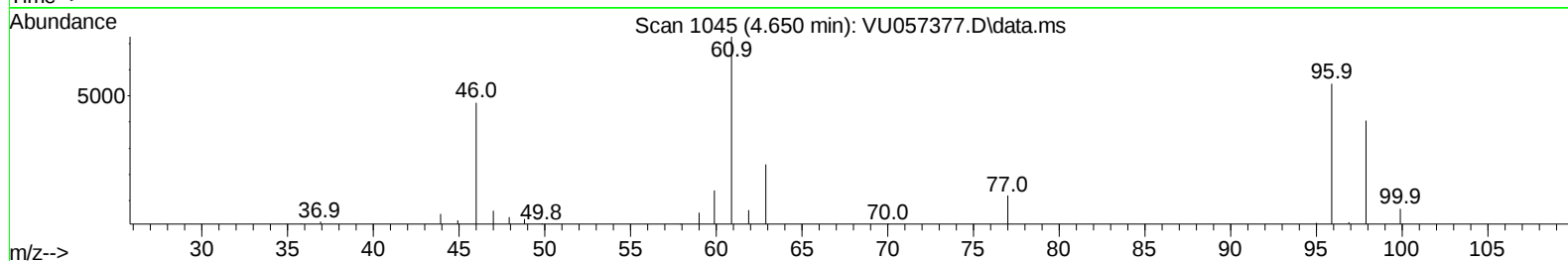
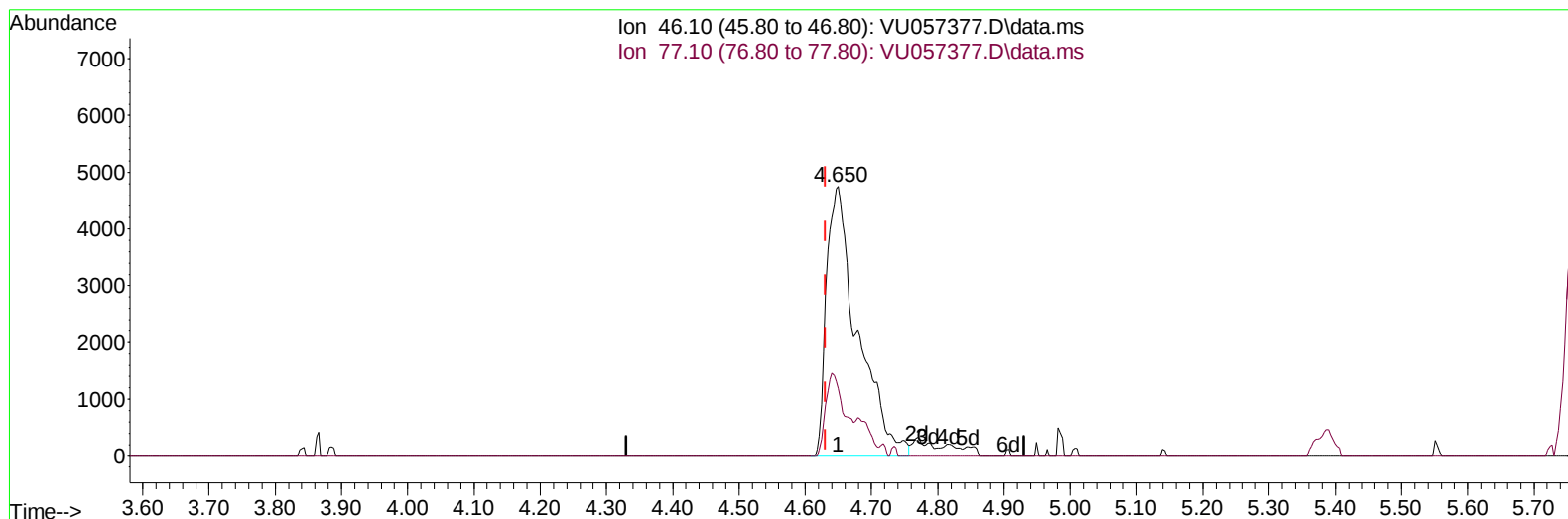
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**(21) 2-Butanone-d5 (S)**

**4.650min (+ 0.019) 18.62 ug/L m**

**response 15406**

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.10 | 100.00 | 100.00 |
| 77.10 | 28.70  | 16.16# |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

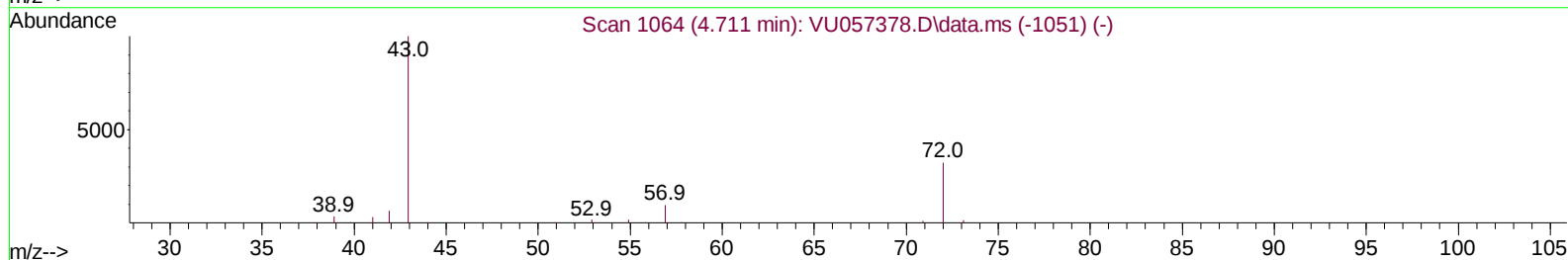
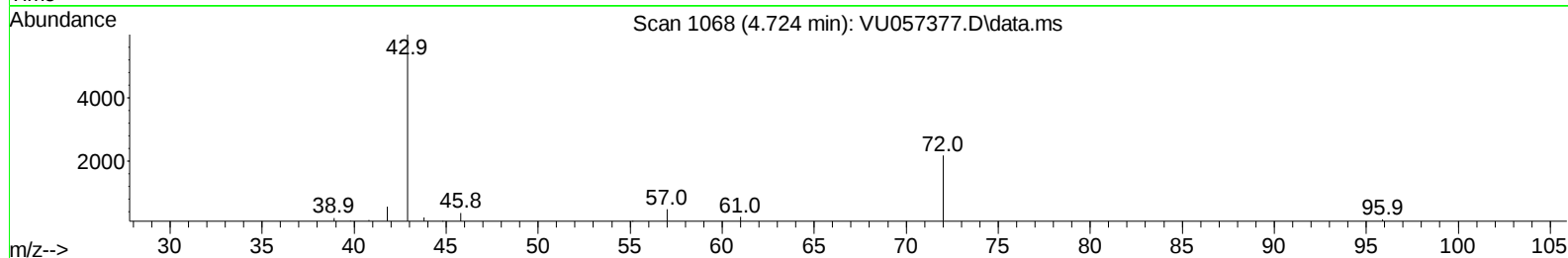
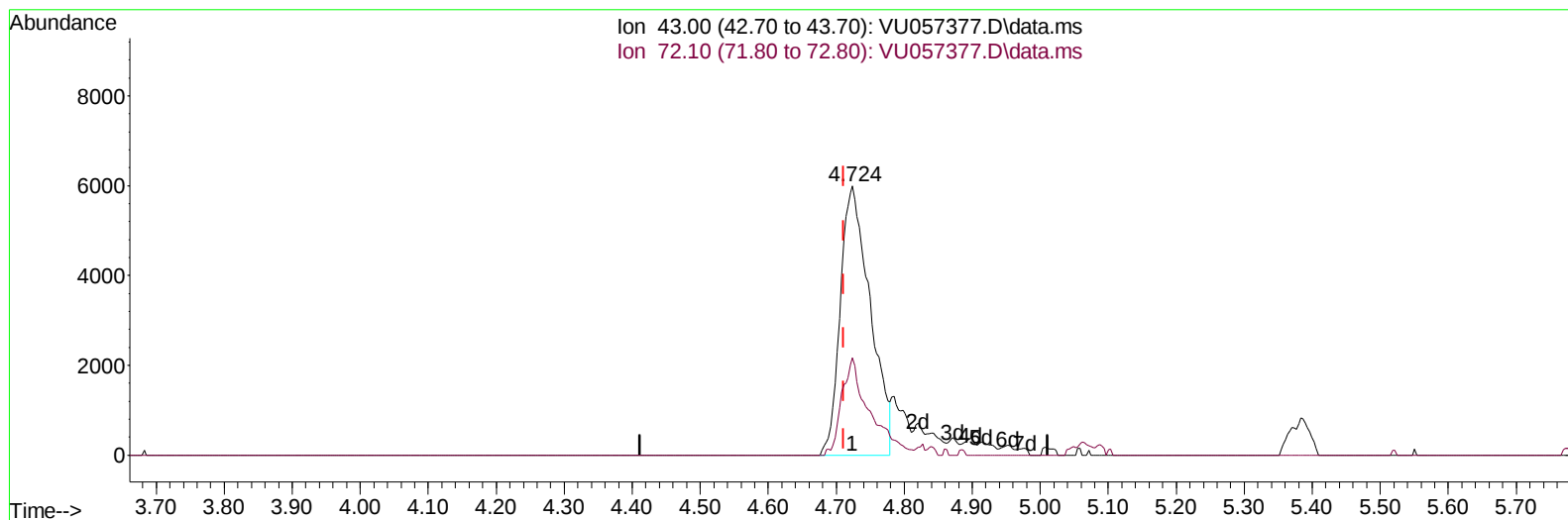
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Instrument :  
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ClientSampleId :  
VSTD010042

Manual IntegrationsAPPROVED

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TIC: VU057377.D\data.ms

(22) 2-Butanone (T)

4.724min (+ 0.013) 18.41 ug/L

response 18282

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.10 | 30.40  | 33.20  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

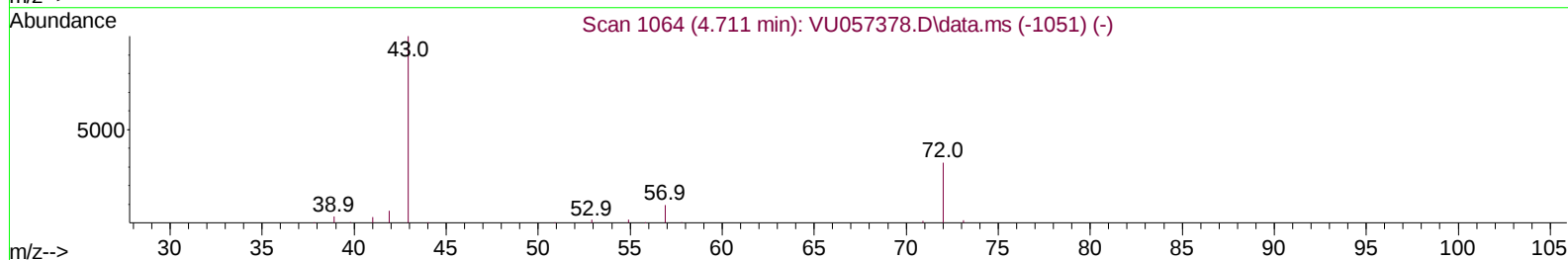
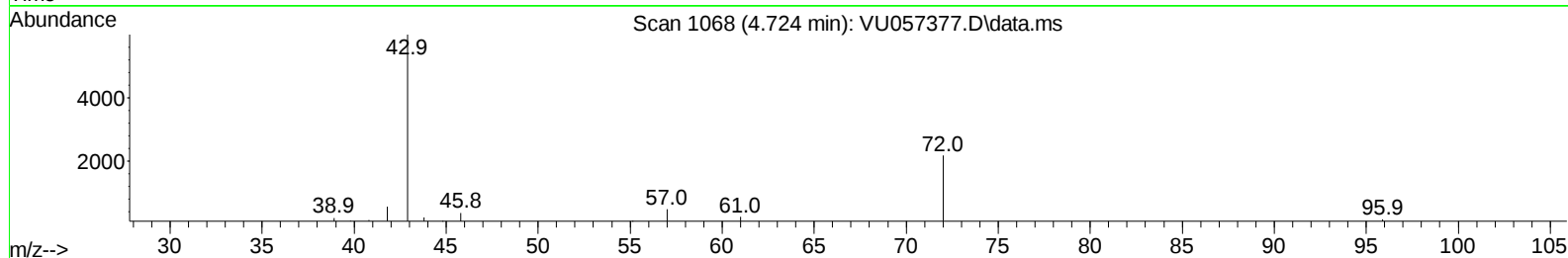
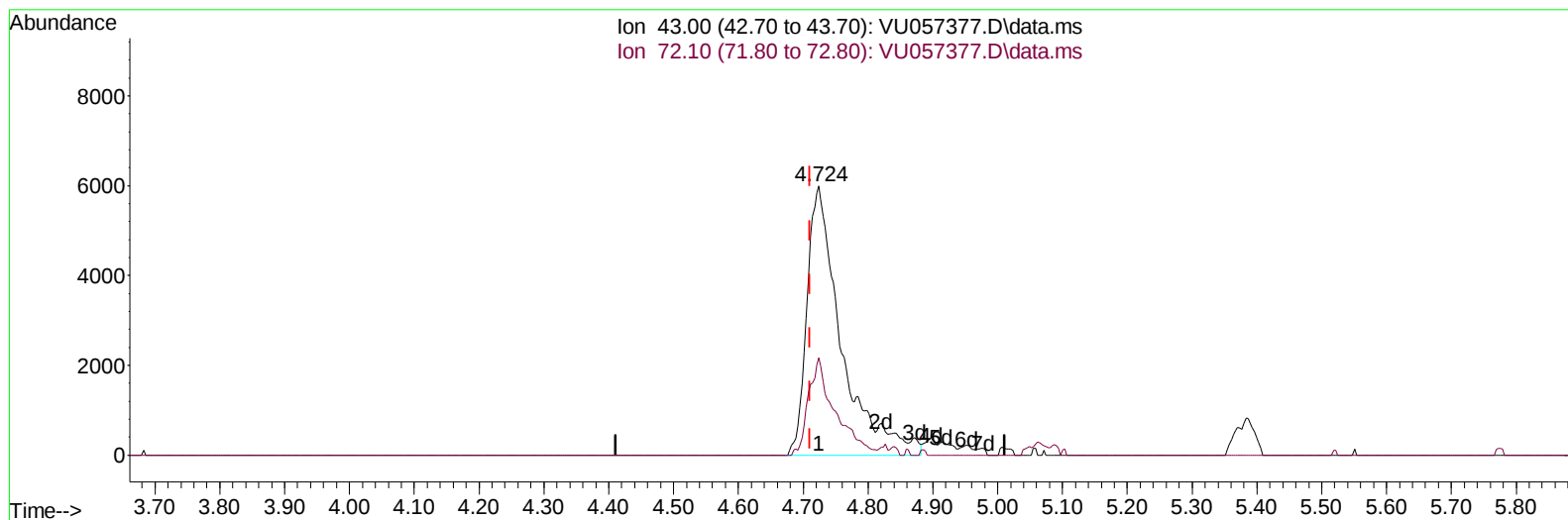
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Instrument :  
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Manual IntegrationsAPPROVED

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TIC: VU057377.D\data.ms

(22) 2-Butanone (T)

4.724min (+ 0.013) 22.07 ug/L m

response 21917

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.10 | 30.40  | 27.70  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

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 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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Manual IntegrationsAPPROVED

Quant Time: Jan 09 00:20:50 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM010824WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 09 00:19:47 2024  
 Response via : Initial Calibration

Reviewed By :John Carlone 01/09/2024  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Difluorobenzene        | 6.242  | 114  | 248134   | 50.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117  | 246902   | 50.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152  | 118849   | 50.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 4) Vinyl Chloride-d3          | 1.599  | 65   | 16764    | 9.816  | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.914  | 69   | 12774    | 9.665  | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 63   | 36328    | 10.036 | ug/L   | 0.00     |
| 21) 2-Butanone-d5             | 4.650  | 46   | 15406m   | 18.617 | ug/L   | 0.02     |
| 24) Chloroform-d              | 5.058  | 84   | 39922    | 9.885  | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65   | 26932    | 10.095 | ug/L   | 0.00     |
| 32) Benzene-d6                | 5.721  | 84   | 63184    | 9.533  | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.689  | 67   | 18031    | 9.639  | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.894  | 98   | 55712    | 8.970  | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79   | 10235    | 9.167  | ug/L   | 0.00     |
| 47) 2-Hexanone-d5             | 8.644  | 63   | 10477    | 17.133 | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84   | 26673    | 9.542  | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152  | 21761    | 9.362  | ug/L   | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85   | 30313    | 10.708 | ug/L   | 94       |
| 3) Chloromethane              | 1.518  | 50   | 20433    | 11.503 | ug/L   | 95       |
| 5) Vinyl chloride             | 1.605  | 62   | 20345    | 10.699 | ug/L   | 96       |
| 6) Bromomethane               | 1.856  | 94   | 12941    | 10.282 | ug/L   | 99       |
| 8) Chloroethane               | 1.933  | 64   | 11874    | 10.675 | ug/L   | 93       |
| 9) Trichlorofluoromethane     | 2.133  | 101  | 41051    | 10.346 | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101  | 19575    | 10.273 | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.576  | 96   | 16918    | 10.062 | ug/L   | 96       |
| 13) Acetone                   | 2.650  | 43   | 20603    | 20.191 | ug/L   | 99       |
| 14) Carbon disulfide          | 2.788  | 76   | 54000    | 10.370 | ug/L   | 98       |
| 15) Methyl Acetate            | 2.952  | 43   | 14247    | 10.837 | ug/L # | 88       |
| 16) Methylene chloride        | 3.046  | 84   | 20704    | 10.831 | ug/L   | 85       |
| 17) trans-1,2-Dichloroethene  | 3.348  | 96   | 17781    | 10.338 | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.354  | 73   | 53827    | 9.777  | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.862  | 63   | 33321    | 10.464 | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.663  | 96   | 18115    | 9.845  | ug/L   | 99       |
| 22) 2-Butanone                | 4.724  | 43   | 21917m   | 22.072 | ug/L   |          |
| 23) Bromochloromethane        | 4.965  | 128  | 11224    | 10.627 | ug/L   | 94       |
| 25) Chloroform                | 5.081  | 83   | 40762    | 10.548 | ug/L   | 100      |
| 27) 1,2-Dichloroethane        | 5.792  | 62   | 33100    | 10.168 | ug/L   | 98       |
| 29) Cyclohexane               | 5.380  | 56   | 22523    | 9.642  | ug/L   | 96       |
| 30) 1,1,1-Trichloroethane     | 5.312  | 97   | 39729    | 10.458 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.518  | 117  | 35101    | 10.418 | ug/L   | 99       |
| 33) Benzene                   | 5.769  | 78   | 72095    | 10.390 | ug/L   | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 20315    | 10.028 | ug/L   | 92       |
| 35) Methylcyclohexane         | 6.756  | 83   | 25025    | 9.080  | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 18368    | 10.727 | ug/L # | 87       |
| 38) Bromodichloromethane      | 7.100  | 83   | 29307    | 10.104 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 28876    | 9.631  | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone      | 7.795  | 43   | 34894    | 20.001 | ug/L   | 98       |
| 42) Toluene                   | 7.965  | 91   | 75396    | 10.105 | ug/L   | 99       |

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 Sample : VSTD01042  
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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010042

## Manual IntegrationsAPPROVED

Reviewed By : John Carlone 01/09/2024  
 Supervised By : Mahesh Dadoda 01/09/2024

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 Quant Title : VOC Analysis  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 29001    | 9.634  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 19661    | 10.436 | ug/L   | 96       |
| 46) Tetrachloroethene         | 8.547  | 164  | 15801    | 10.311 | ug/L   | 96       |
| 48) 2-Hexanone                | 8.692  | 43   | 26262    | 18.359 | ug/L   | 92       |
| 49) Dibromochloromethane      | 8.804  | 129  | 23636    | 10.295 | ug/L   | 94       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 20658    | 10.337 | ug/L   | 99       |
| 51) Chlorobenzene             | 9.444  | 112  | 50058    | 9.985  | ug/L   | 98       |
| 52) Ethylbenzene              | 9.566  | 91   | 77398    | 9.316  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.692  | 106  | 29250    | 9.418  | ug/L   | 93       |
| 54) o-Xylene                  | 10.094 | 106  | 28645    | 9.444  | ug/L   | 86       |
| 55) Styrene                   | 10.113 | 104  | 45259    | 8.812  | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 30835    | 10.854 | ug/L   | 96       |
| 59) Bromoform                 | 10.290 | 173  | 18035    | 10.466 | ug/L # | 94       |
| 60) 1,2,3-Trichloropropane    | 10.820 | 75   | 24601    | 10.928 | ug/L   | 96       |
| 61) Isopropylbenzene          | 10.479 | 105  | 74374    | 9.556  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 59267    | 8.904  | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 59285    | 9.073  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 37076    | 10.108 | ug/L   | 100      |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 38422    | 10.204 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 37787    | 10.221 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 6493     | 10.802 | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 25293    | 9.633  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 18059    | 9.034  | ug/L   | 93       |
| 71) Naphthalene               | 14.084 | 128  | 40501    | 8.671  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 17800    | 9.416  | ug/L   | 97       |

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

