



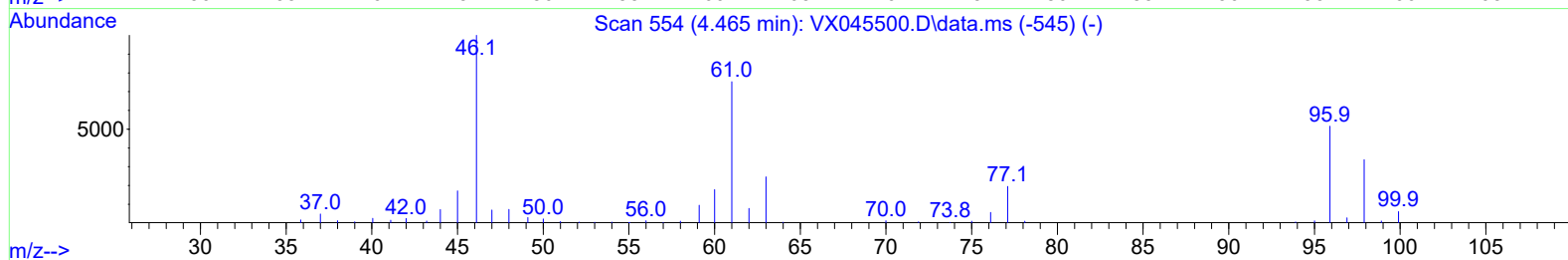
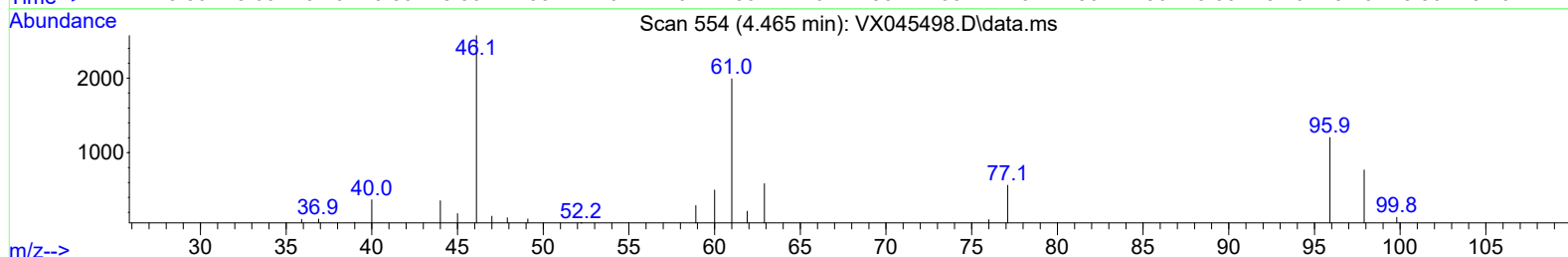
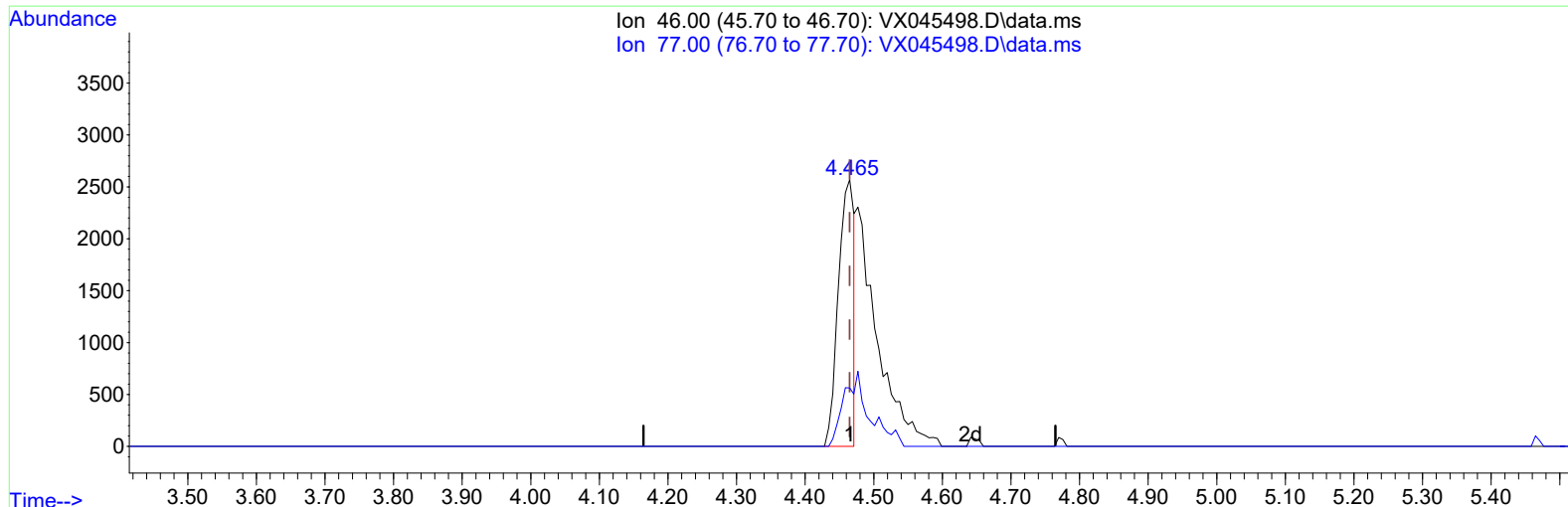
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032825\  
Data File : VX045498.D  
Acq On : 28 Mar 2025 09:59  
Operator : JC/MD  
Sample : VSTD00567  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTD005667

## Manual IntegrationsAPPROVED

Reviewed By :John Carlone 04/01/2025  
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 13:12:37 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML032825WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 28 13:12:20 2025  
Response via : Initial Calibration



TIC: VX045498.D\data.ms

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

4.465min (+ 0.000) 7.26 ug/L

response 4112

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.00 | 100.00 | 100.00 |
| 77.00 | 25.50  | 20.33  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

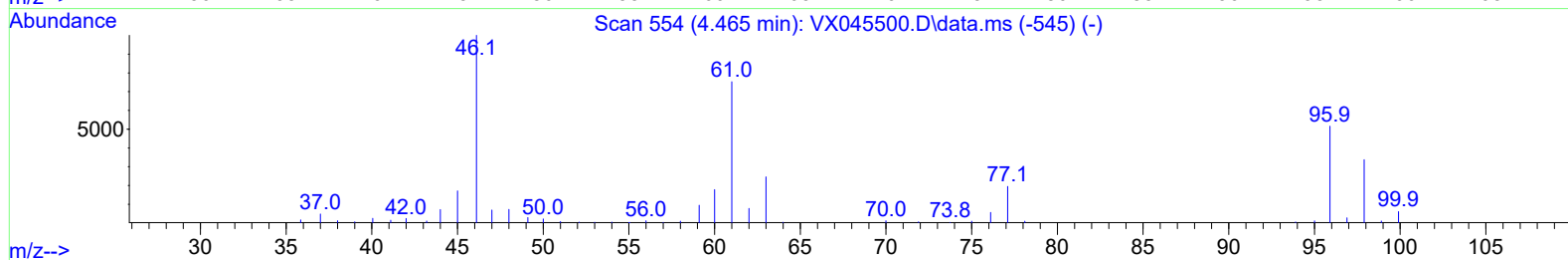
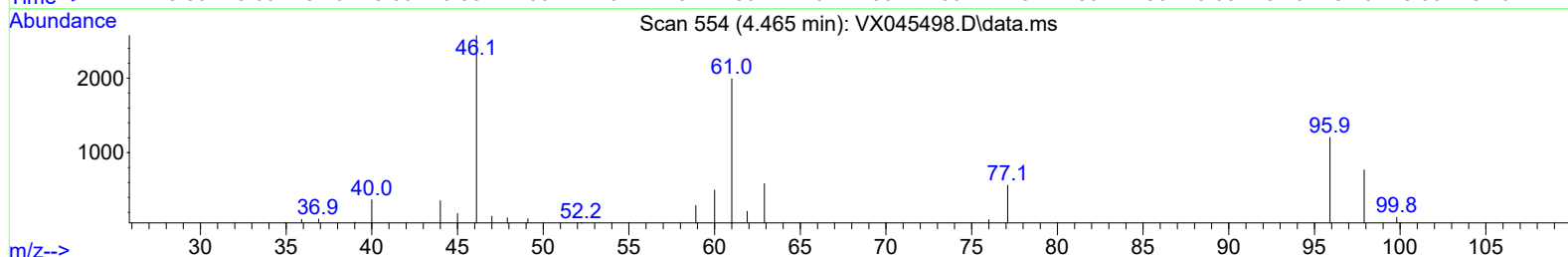
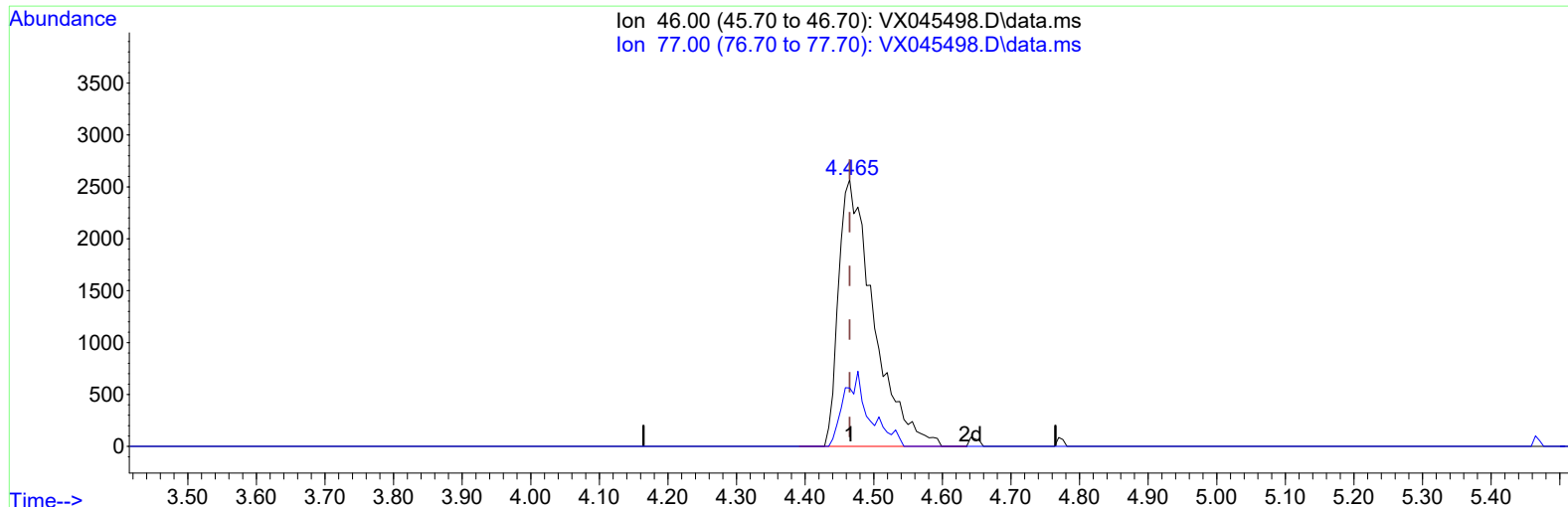
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## (21) 2-Butanone-d5 (S)

4.465min (+ 0.000) 16.10 ug/L m

response 9122

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.00 | 100.00 | 100.00 |
| 77.00 | 25.50  | 9.16#  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

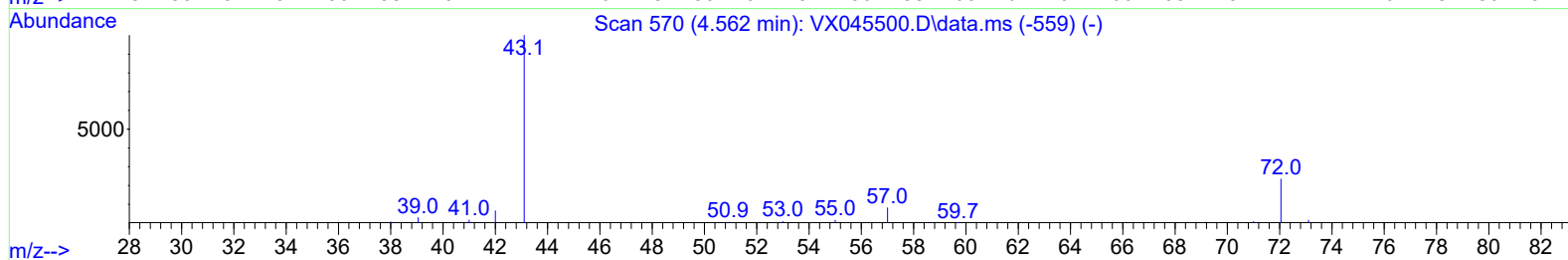
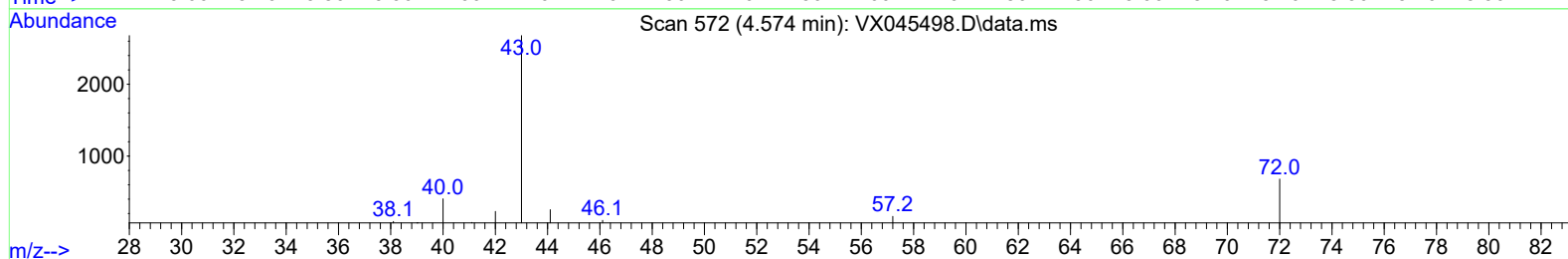
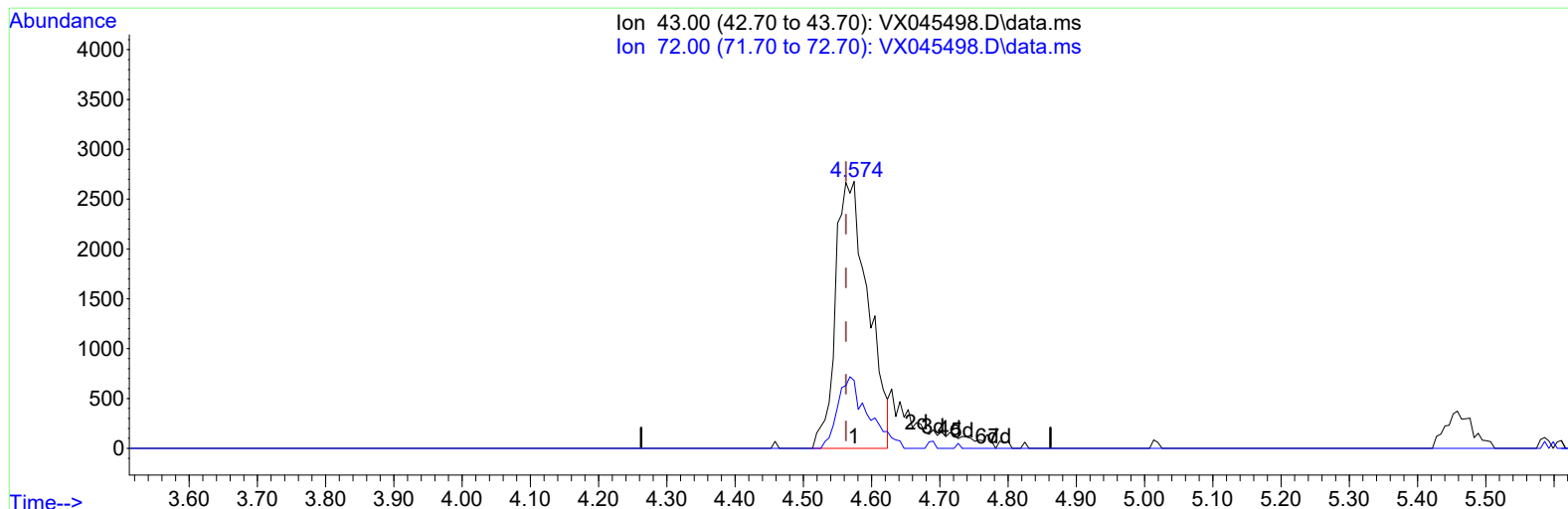
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Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTD00567

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TIC: VX045498.D\data.ms

## (22) 2-Butanone (T)

4.574min (+ 0.012) 9.55 ug/L

response 8893

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.00 | 26.80  | 15.87  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

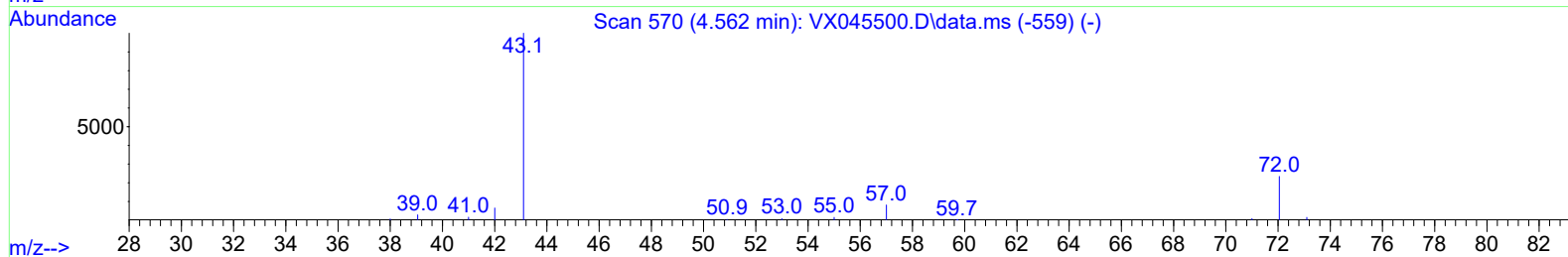
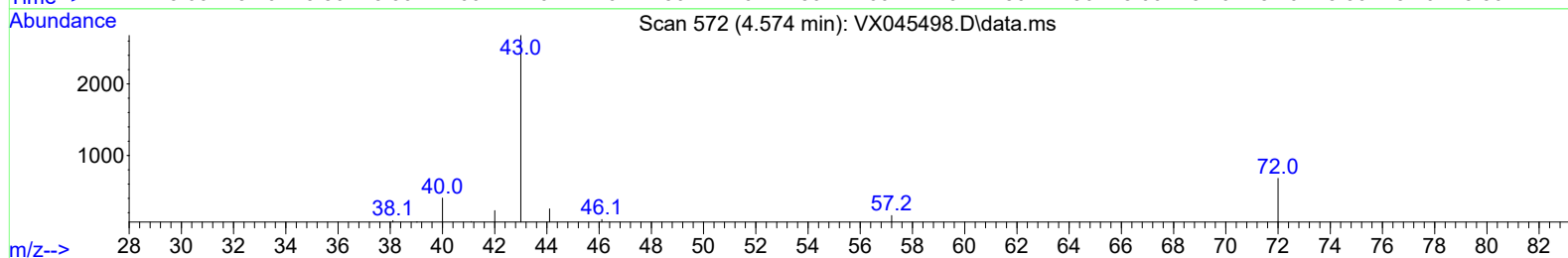
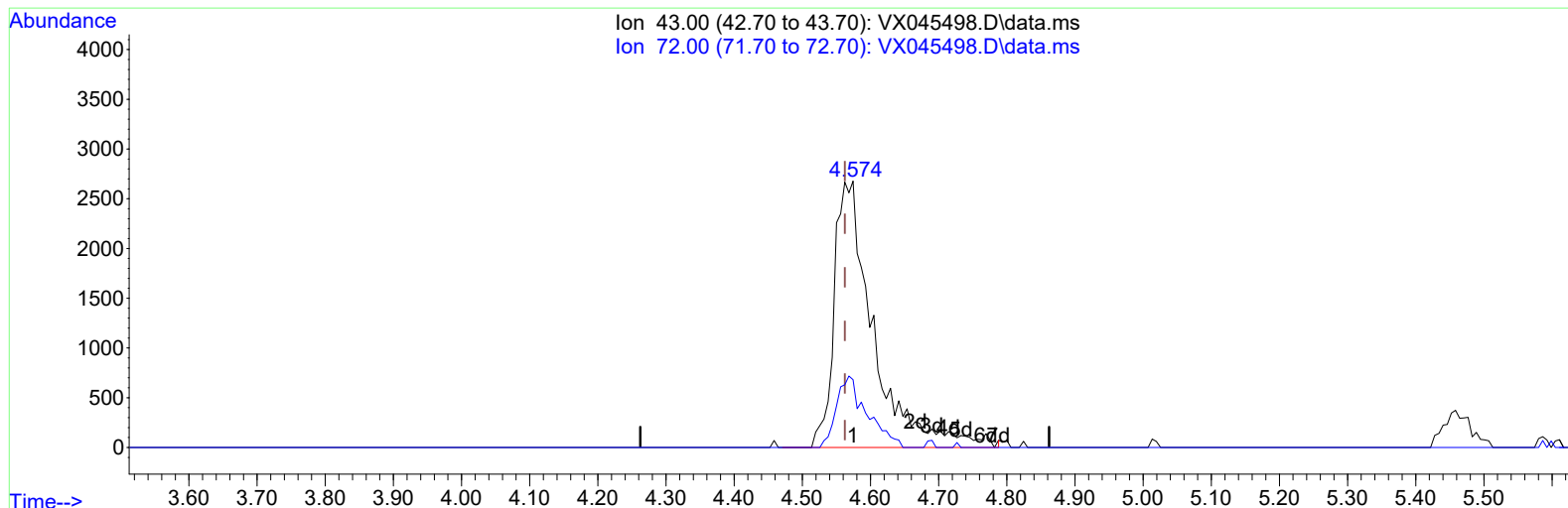
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Sample : VSTD00567  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTD005667

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TIC: VX045498.D\data.ms

## (22) 2-Butanone (T)

4.574min (+ 0.012) 11.49 ug/L m

response 10701

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.00 | 26.80  | 13.19# |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

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Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD005667

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 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 28 13:12:20 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Difluorobenzene        | 6.751  | 114  | 176015   | 50.00 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.049 | 117  | 157101   | 50.00 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.018 | 152  | 68743    | 50.00 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) Vinyl Chloride-d3          | 1.368  | 65   | 5878     | 4.44  | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.654  | 69   | 4630     | 9.20  | ug/L   | 0.01     |
| 11) 1,1-Dichloroethene-d2     | 2.300  | 65   | 3141     | 5.55  | ug/L   | 0.00     |
| 21) 2-Butanone-d5             | 4.465  | 46   | 9122m    | 16.10 | ug/L   | 0.00     |
| 24) Chloroform-d              | 5.056  | 84   | 13651    | 5.86  | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.946  | 65   | 10441    | 7.47  | ug/L   | 0.00     |
| 32) Benzene-d6                | 5.964  | 84   | 23372    | 4.76  | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 7.306  | 67   | 7734     | 4.97  | ug/L   | 0.00     |
| 41) Toluene-d8                | 8.647  | 98   | 21112    | 4.86  | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.952  | 79   | 2637     | 3.58  | ug/L   | 0.00     |
| 47) 2-Hexanone-d5             | 9.385  | 63   | 5398     | 11.73 | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 11.189 | 84   | 10378    | 5.37  | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.317 | 152  | 6697     | 4.98  | ug/L   | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.167  | 85   | 8080     | 6.42  | ug/L   | 97       |
| 3) Chloromethane              | 1.307  | 50   | 6921     | 4.46  | ug/L   | 97       |
| 5) Vinyl chloride             | 1.368  | 62   | 6379     | 4.48  | ug/L   | 94       |
| 6) Bromomethane               | 1.593  | 94   | 2995     | 7.76  | ug/L   | 86       |
| 8) Chloroethane               | 1.673  | 64   | 3261     | 5.73  | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 1.880  | 101  | 9209     | 5.79  | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.319  | 101  | 5725     | 4.90  | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.313  | 96   | 5014     | 4.60  | ug/L   | 92       |
| 13) Acetone                   | 2.380  | 43   | 9840     | 17.42 | ug/L   | 93       |
| 14) Carbon disulfide          | 2.502  | 76   | 11680    | 3.50  | ug/L   | 100      |
| 15) Methyl Acetate            | 2.703  | 43   | 6865     | 5.25  | ug/L   | 94       |
| 16) Methylene chloride        | 2.782  | 84   | 6100     | 4.89  | ug/L   | 86       |
| 17) trans-1,2-Dichloroethene  | 3.081  | 96   | 5167     | 4.53  | ug/L   | 86       |
| 18) Methyl tert-butyl Ether   | 3.105  | 73   | 16424    | 4.17  | ug/L   | 95       |
| 19) 1,1-Dichloroethane        | 3.599  | 63   | 10098    | 4.53  | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.483  | 96   | 5335     | 3.91  | ug/L   | 88       |
| 22) 2-Butanone                | 4.574  | 43   | 10701m   | 11.49 | ug/L   |          |
| 23) Bromochloromethane        | 4.898  | 128  | 2772     | 4.11  | ug/L   | 91       |
| 25) Chloroform                | 5.093  | 83   | 10552    | 4.66  | ug/L   | 94       |
| 27) 1,2-Dichloroethane        | 6.080  | 62   | 9169     | 5.40  | ug/L   | 95       |
| 29) Cyclohexane               | 5.458  | 56   | 9297     | 3.86  | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane     | 5.373  | 97   | 8549     | 4.30  | ug/L   | 93       |
| 31) Carbon tetrachloride      | 5.666  | 117  | 7490     | 4.39  | ug/L   | 100      |
| 33) Benzene                   | 6.025  | 78   | 21007    | 4.06  | ug/L   | 100      |
| 35) Methylcyclohexane         | 7.373  | 83   | 8950     | 3.97  | ug/L   | 95       |
| 37) 1,2-Dichloropropane       | 7.428  | 63   | 5779     | 4.13  | ug/L # | 87       |
| 38) Bromodichloromethane      | 7.818  | 83   | 7692     | 4.38  | ug/L # | 91       |
| 39) cis-1,3-Dichloropropene   | 8.366  | 75   | 7293     | 3.21  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 15893    | 8.58  | ug/L   | 90       |
| 42) Toluene                   | 8.720  | 91   | 20617    | 3.88  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 8.976  | 75   | 6824     | 3.35  | ug/L   | 92       |
| 45) 1,1,2-Trichloroethane     | 9.147  | 97   | 5572     | 4.26  | ug/L   | 95       |

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| Compound                      | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|------|--------|----------|
| 46) Tetrachloroethene         | 9.275  | 164  | 3880     | 4.15 | ug/L # | 87       |
| 48) 2-Hexanone                | 9.433  | 43   | 11545    | 8.70 | ug/L # | 92       |
| 49) Dibromochloromethane      | 9.513  | 129  | 5396     | 4.09 | ug/L   | 81       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 5687     | 4.15 | ug/L # | 97       |
| 51) Chlorobenzene             | 10.073 | 112  | 13424    | 4.05 | ug/L   | 91       |
| 52) Ethylbenzene              | 10.195 | 91   | 23001    | 3.96 | ug/L   | 96       |
| 53) m,p-Xylene                | 10.299 | 106  | 8133     | 3.73 | ug/L   | 97       |
| 54) o-Xylene                  | 10.640 | 106  | 7722     | 3.59 | ug/L   | 80       |
| 55) Styrene                   | 10.653 | 104  | 12987    | 3.66 | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 8627     | 4.25 | ug/L   | 99       |
| 59) Bromoform                 | 10.799 | 173  | 3222     | 3.54 | ug/L   | 95       |
| 60) Isopropylbenzene          | 10.957 | 105  | 21921    | 3.97 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 7077     | 4.66 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 16845    | 3.72 | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 16125    | 3.59 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 9236     | 4.07 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 12.037 | 146  | 9506     | 4.21 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 9219     | 4.10 | ug/L   | 88       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 1694     | 4.10 | ug/L # | 84       |
| 69) 1,3,5-Trichlorobenzene    | 13.109 | 180  | 5501     | 3.70 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 4775     | 3.56 | ug/L   | 95       |
| 71) Naphthalene               | 13.774 | 128  | 16678    | 3.21 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 4722     | 3.47 | ug/L   | 98       |

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