

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022420\  
 Data File : VW015028.D  
 Acq On : 24 Feb 2020 12:42  
 Operator : SY/VA  
 Sample : VSTDICV025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VICV06

Quant Time: Feb 25 06:08:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM022420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 25 06:06:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 801302   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 729465   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 316228   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 474731   | 23.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.72%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 345402   | 23.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.64%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 782936   | 25.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 100.40% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 174034   | 51.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 103.90% |
| 24) Chloroform-d               | 7.64   | 84    | 663161   | 25.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 100.76% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 363273   | 24.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 98.64%  |
| 29) Benzene-d6                 | 8.27   | 84    | 1333710  | 26.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 106.44% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 440629   | 26.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 105.04% |
| 37) Toluene-d8                 | 10.32  | 98    | 1164020  | 27.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 111.36% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 164465   | 26.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 106.04% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 124028   | 55.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 111.64% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 271091   | 25.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 100.00% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 309801   | 26.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 106.96% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 160379   | 23.456 | ug/L  | 97     |
| 3) Chloromethane               | 2.21 | 50   | 359649   | 22.946 | ug/L  | 100    |
| 5) Vinyl chloride              | 2.36 | 62   | 463881   | 22.875 | ug/L  | 99     |
| 6) Bromomethane                | 2.78 | 94   | 202629   | 22.257 | ug/L  | 99     |
| 8) Chloroethane                | 2.92 | 64   | 256784   | 23.271 | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 201111   | 22.005 | ug/L  | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 291108   | 23.127 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 291020   | 24.284 | ug/L  | 84     |
| 13) Acetone                    | 4.12 | 43   | 169711   | 42.829 | ug/L  | 98     |
| 14) Carbon disulfide           | 4.38 | 76   | 1040201  | 23.195 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 159278   | 23.872 | ug/L  | 99     |
| 16) Methylene chloride         | 4.92 | 84   | 325206   | 21.927 | ug/L  | 94     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 376526   | 25.957 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 302421   | 24.425 | ug/L  | 95     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 670683   | 24.287 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.16 | 43   | 214737   | 46.085 | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96   | 315400   | 25.031 | ug/L  | 93     |

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 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 25 06:06:17 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 116251   | 23.717 | ug/L  | 95       |
| 25) Chloroform                  | 7.67  | 83   | 591216   | 23.592 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 409251   | 23.868 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.95  | 56   | 661251   | 27.113 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 461399   | 24.526 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 407564   | 24.176 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 1383214  | 25.491 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 320044   | 24.382 | ug/L  | 100      |
| 36) Methylcyclohexane           | 9.33  | 83   | 608832   | 27.011 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 376036   | 24.951 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 409817   | 24.242 | ug/L  | 100      |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 516932   | 26.322 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 427341   | 50.697 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 1384922  | 26.279 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 409994   | 25.830 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.78 | 97   | 202047   | 23.824 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 207318   | 24.506 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.96 | 43   | 308427   | 50.470 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.12 | 129  | 220982   | 24.484 | ug/L  | 94       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 181496   | 24.556 | ug/L  | 96       |
| 52) Chlorobenzene               | 11.65 | 112  | 769112   | 24.812 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 1515395  | 26.323 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.83 | 106  | 538980   | 26.759 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 505110   | 26.914 | ug/L  | 96       |
| 56) Styrene                     | 12.18 | 104  | 873760   | 27.182 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1389514  | 27.186 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 254852   | 23.817 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 194851   | 23.691 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 105793   | 23.801 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene         | 13.49 | 146  | 531878   | 25.782 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.57 | 146  | 525011   | 24.718 | ug/L  | 96       |
| 65) 1,2-Dichlorobenzene         | 13.86 | 146  | 474039   | 25.372 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 39817    | 24.139 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 375345   | 27.132 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 281447   | 27.837 | ug/L  | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 247362   | 27.559 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 250415   | 27.594 | ug/L  | 99       |

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

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