

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070618\  
 Data File : VW003738.D  
 Acq On : 06 Jul 2018 10:47  
 Operator : SY/AP  
 Sample : VSTD02583  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02583

Manual Integrations  
 APPROVED

MMDadoda  
 7/9/2018 12:58:22 PM

Quant Time: Jul 06 15:07:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 06 10:12:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 325545   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 314269   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 159560   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.34  | 65  | 108822 | 24.65 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 78922  | 21.42 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 167167 | 19.07 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 73240  | 52.64 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 211309 | 24.68 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 127673 | 25.09 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 407066 | 24.41 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 126515 | 23.97 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.33 | 98  | 394533 | 24.75 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 61568  | 24.85 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 58372  | 54.11 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70 | 84  | 128084 | 26.08 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.87 | 152 | 144639 | 24.00 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |       |      | Qvalue |
|--------------------------------|-------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 48716m | 27.24 | ug/L |        |
| 3) Chloromethane               | 2.21  | 50  | 82626  | 21.51 | ug/L | 99     |
| 5) Vinyl chloride              | 2.36  | 62  | 123189 | 22.16 | ug/L | 97     |
| 6) Bromomethane                | 2.78  | 94  | 73610  | 22.76 | ug/L | 99     |
| 8) Chloroethane                | 2.92  | 64  | 69050  | 20.38 | ug/L | 96     |
| 9) Trichlorofluoromethane      | 3.25  | 101 | 54334  | 17.04 | ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.05  | 101 | 82613  | 19.19 | ug/L | 98     |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 80316  | 19.74 | ug/L | 99     |
| 13) Acetone                    | 4.14  | 43  | 55070m | 37.14 | ug/L |        |
| 14) Carbon disulfide           | 4.37  | 76  | 260691 | 19.86 | ug/L | 99     |
| 15) Methyl Acetate             | 4.68  | 43  | 56068  | 23.07 | ug/L | 100    |
| 16) Methylene chloride         | 4.91  | 84  | 110867 | 24.72 | ug/L | 95     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 201897 | 26.89 | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 109002 | 25.71 | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 206531 | 26.10 | ug/L | 99     |
| 21) 2-Butanone                 | 7.18  | 43  | 98372  | 56.45 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 117493 | 26.07 | ug/L | 99     |
| 23) Bromochloromethane         | 7.51  | 128 | 55118  | 26.44 | ug/L | 93     |
| 25) Chloroform                 | 7.68  | 83  | 214850 | 26.41 | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 161950 | 27.49 | ug/L | 99     |
| 30) Cyclohexane                | 7.95  | 56  | 184282 | 25.40 | ug/L | 98     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 167641 | 24.28 | ug/L | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 166061 | 24.90 | ug/L | 99     |
| 34) Benzene                    | 8.32  | 78  | 473804 | 26.44 | ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 122838 | 25.43 | ug/L | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 213143 | 25.85 | ug/L | 100    |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 126825 | 26.89 | ug/L | 99     |
| 41) Bromodichloromethane       | 9.65  | 83  | 159160 | 26.26 | ug/L | 98     |
| 42) cis-1,3-Dichloropropene    | 10.08 | 75  | 188571 | 26.79 | ug/L | 99     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 205581 | 61.02 | ug/L | 99     |

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 ALS Vial : 1 Sample Multiplier: 1

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 ClientSampleId :  
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 7/9/2018 12:58:22 PM

Quant Time: Jul 06 15:07:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 06 10:12:11 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| 44) Toluene                     | 10.39 | 91   | 517440   | 26.62 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 175684   | 27.58 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 97340    | 27.65 | ug/L  | 96       |
| 47) Tetrachloroethene           | 10.87 | 164  | 103165   | 25.42 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.98 | 43   | 157373   | 62.68 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 114933   | 26.82 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 96312    | 27.53 | ug/L  | 100      |
| 52) Chlorobenzene               | 11.66 | 112  | 329189   | 26.08 | ug/L  | 97       |
| 53) Ethylbenzene                | 11.74 | 91   | 583029   | 26.74 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.85 | 106  | 220775   | 27.27 | ug/L  | 96       |
| 55) o-xylene                    | 12.17 | 106  | 207202   | 26.90 | ug/L  | 100      |
| 56) Styrene                     | 12.19 | 104  | 370673   | 27.88 | ug/L  | 97       |
| 57) Isopropylbenzene            | 12.47 | 105  | 571535   | 26.75 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 135245   | 29.14 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 104143   | 29.28 | ug/L  | 98       |
| 62) Bromoform                   | 12.35 | 173  | 74506    | 27.75 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.51 | 146  | 251387   | 25.62 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 270663   | 26.31 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.88 | 146  | 249061   | 26.59 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 24076    | 29.29 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.64 | 180  | 198392   | 26.02 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.15 | 180  | 164369   | 26.48 | ug/L  | 99       |
| 69) Naphthalene                 | 15.38 | 128  | 368224   | 31.71 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.57 | 180  | 161295   | 28.36 | ug/L  | 100      |

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

