

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042820\  
 Data File : VW015359.D  
 Acq On : 28 Apr 2020 13:35  
 Operator : SY/VA  
 Sample : VSTD00502  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00502

Manual Integrations  
 APPROVED

MMDadoda  
 4/29/2020 1:44:07 PM

Quant Time: Apr 28 14:32:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042820S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 28 14:27:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 365790   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 334091   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 172725   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 9894  | 2.46  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 17697 | 4.83  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 34232 | 4.50  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.08  | 46  | 10010 | 11.50 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 43518 | 6.59  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 23220 | 5.42  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 84641 | 5.68  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 23922 | 5.76  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 86617 | 5.49  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.57 | 79  | 12742 | 5.85  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 9119  | 11.71 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 19957 | 5.69  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 32512 | 5.40  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |        | Qvalue    |
|--------------------------------|-------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 16774  | 3.261  | ug/L 95   |
| 3) Chloromethane               | 2.21  | 50  | 13828  | 3.169  | ug/L 97   |
| 5) Vinyl chloride              | 2.37  | 62  | 11302  | 2.212  | ug/L 95   |
| 6) Bromomethane                | 2.78  | 94  | 16983  | 4.730  | ug/L 99   |
| 8) Chloroethane                | 2.93  | 64  | 13663  | 4.193  | ug/L 98   |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 18628  | 2.399  | ug/L 99   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 22241m | 4.645  | ug/L      |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 20020  | 4.646  | ug/L 91   |
| 13) Acetone                    | 4.12  | 43  | 7866   | 10.118 | ug/L 96   |
| 14) Carbon disulfide           | 4.37  | 76  | 50472  | 3.774  | ug/L 99   |
| 15) Methyl Acetate             | 4.67  | 43  | 7558   | 5.053  | ug/L 98   |
| 16) Methylene chloride         | 4.92  | 84  | 25113  | 5.294  | ug/L 97   |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 32796  | 3.180  | ug/L 97   |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 23496  | 4.877  | ug/L 100  |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 36639  | 4.962  | ug/L 98   |
| 21) 2-Butanone                 | 7.17  | 43  | 11423  | 10.592 | ug/L 98   |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 25195  | 4.990  | ug/L 99   |
| 23) Bromochloromethane         | 7.51  | 128 | 11959  | 5.106  | ug/L 97   |
| 25) Chloroform                 | 7.67  | 83  | 41204  | 4.236  | ug/L 99   |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 26666  | 5.071  | ug/L 100  |
| 30) Cyclohexane                | 7.95  | 56  | 33124  | 4.977  | ug/L 100  |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 36446  | 4.683  | ug/L 99   |
| 32) Carbon tetrachloride       | 8.07  | 117 | 34372  | 4.944  | ug/L 100  |
| 34) Benzene                    | 8.32  | 78  | 88145  | 5.271  | ug/L 100  |
| 35) Trichloroethene            | 9.09  | 95  | 25455  | 5.246  | ug/L 100  |
| 36) Methylcyclohexane          | 9.33  | 83  | 44017  | 5.348  | ug/L 100  |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 19963  | 5.247  | ug/L 99   |
| 41) Bromodichloromethane       | 9.64  | 83  | 30843  | 5.232  | ug/L # 98 |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 34842  | 5.120  | ug/L 100  |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 29565  | 14.106 | ug/L 100  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| -----                           |       |      |          |        |       |          |
| 44) Toluene                     | 10.38 | 91   | 105553   | 5.279  | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 31172    | 5.193  | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 18020    | 5.535  | ug/L  | 97       |
| 47) Tetrachloroethene           | 10.86 | 164  | 24173    | 5.302  | ug/L  | 96       |
| 49) 2-Hexanone                  | 10.97 | 43   | 15647    | 10.170 | ug/L  | 100      |
| 50) Dibromochloromethane        | 11.13 | 129  | 22987    | 5.297  | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 17796    | 5.474  | ug/L  | 96       |
| 52) Chlorobenzene               | 11.66 | 112  | 70215    | 5.220  | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 118729   | 5.056  | ug/L  | 100      |
| 54) m,p-Xylene                  | 11.84 | 106  | 46714    | 4.962  | ug/L  | 99       |
| 55) o-xylene                    | 12.16 | 106  | 44227    | 4.957  | ug/L  | 93       |
| 56) Styrene                     | 12.18 | 104  | 73739    | 4.858  | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.46 | 105  | 122377   | 4.969  | ug/L  | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 19942    | 5.577  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 14983    | 5.523  | ug/L  | 98       |
| 62) Bromoform                   | 12.35 | 173  | 14538    | 5.433  | ug/L  | 97       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 57575    | 5.147  | ug/L  | 93       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 57727    | 5.228  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 49602    | 4.956  | ug/L  | 94       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 3562     | 5.352  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 42027    | 5.035  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 35599    | 5.353  | ug/L  | 98       |
| 69) Naphthalene                 | 15.36 | 128  | 61024    | 5.437  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 31482    | 5.499  | ug/L  | 99       |
| -----                           |       |      |          |        |       |          |

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

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