

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022620\  
 Data File : VW015043.D  
 Acq On : 26 Feb 2020 14:02  
 Operator : SY/VA  
 Sample : L1686-12  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAW09

Manual Integrations  
 APPROVED

MMDadoda  
 2/27/2020 3:37:23 PM

Quant Time: Feb 27 03:10:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM022420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 27 02:01:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 695317   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 655979   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 276372   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 381108   | 21.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 87.64%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 279359   | 22.28    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.12%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 638063   | 23.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 94.28%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 159137   | 54.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 109.48% |
| 24) Chloroform-d               | 7.65   | 84    | 545274   | 23.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.48%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 325137m  | 25.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 101.76% |
| 29) Benzene-d6                 | 8.27   | 84    | 1131288  | 25.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.40% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 378629   | 25.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.36% |
| 37) Toluene-d8                 | 10.32  | 98    | 945014   | 25.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.52% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 143044   | 25.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 102.56% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 114703   | 57.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 114.82% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 247872   | 25.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 101.68% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 249708   | 24.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 98.64%  |

## Target Compounds

| Target Compounds             | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|------|------|----------|--------|--------|--------|
| 3) Chloromethane             | 2.21 | 50   | 277929   | 20.435 | ug/L   | 98     |
| 6) Bromomethane              | 2.78 | 94   | 72149    | 9.133  | ug/L   | 99     |
| 9) Trichlorofluoromethane    | 3.26 | 101  | 109169   | 13.766 | ug/L   | 99     |
| 12) 1,1-Dichloroethene       | 4.04 | 96   | 237440   | 22.833 | ug/L # | 76     |
| 13) Acetone                  | 4.12 | 43   | 299431   | 87.084 | ug/L   | 97     |
| 15) Methyl Acetate           | 4.67 | 43   | 260385   | 44.974 | ug/L   | 99     |
| 16) Methylene chloride       | 4.91 | 84   | 146506   | 11.384 | ug/L   | 97     |
| 17) Methyl tert-butyl Ether  | 5.42 | 73   | 433851   | 34.468 | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene | 5.42 | 96   | 119827   | 11.153 | ug/L   | 92     |
| 22) cis-1,2-Dichloroethene   | 7.16 | 96   | 294848   | 26.967 | ug/L   | 95     |
| 23) Bromochloromethane       | 7.51 | 128  | 70548    | 16.587 | ug/L   | 97     |
| 27) 1,2-Dichloroethane       | 8.40 | 62   | 167942   | 11.287 | ug/L   | 99     |
| 30) Cyclohexane              | 7.96 | 56   | 222933   | 10.165 | ug/L   | 99     |
| 31) 1,1,1-Trichloroethane    | 7.87 | 97   | 176988   | 10.462 | ug/L   | 99     |
| 32) Carbon tetrachloride     | 8.06 | 117  | 193812   | 12.784 | ug/L   | 99     |
| 35) Trichloroethene          | 9.09 | 95   | 496704   | 42.080 | ug/L   | 99     |
| 36) Methylcyclohexane        | 9.34 | 83   | 572722   | 28.256 | ug/L   | 99     |

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 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 27 02:01:40 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 191221   | 14.110 | ug/L  | 99       |
| 41) Bromodichloromethane       | 9.64  | 83   | 324406   | 21.339 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 321800   | 18.222 | ug/L  | 100      |
| 44) Toluene                    | 10.38 | 91   | 1057276  | 22.310 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 131617   | 9.221  | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.86 | 164  | 313506   | 41.210 | ug/L  | 95       |
| 49) 2-Hexanone                 | 10.97 | 43   | 302379   | 55.023 | ug/L  | 96       |
| 50) Dibromochloromethane       | 11.12 | 129  | 170873   | 21.053 | ug/L  | 96       |
| 53) Ethylbenzene               | 11.73 | 91   | 815197   | 15.746 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 191527   | 10.574 | ug/L  | 99       |
| 55) o-xylene                   | 12.16 | 106  | 215137   | 12.747 | ug/L  | 97       |
| 57) Isopropylbenzene           | 12.46 | 105  | 594792   | 12.941 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 366739   | 20.341 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.86 | 146  | 179905   | 11.018 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 31049    | 21.538 | ug/L  | 94       |

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

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