

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090420\  
 Data File : VW016459.D  
 Acq On : 04 Sep 2020 12:08  
 Operator : SY/VA  
 Sample : MDL01  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL01

Manual Integrations  
 APPROVED

MMDadoda  
 9/8/2020 10:12:13 AM

Quant Time: Sep 05 05:19:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 05 04:18:48 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 753144   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 673222   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 308480   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 191260   | 23.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.76%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 183683   | 25.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.40% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 309492   | 16.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 67.40%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 121366   | 42.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 85.06%  |
| 24) Chloroform-d               | 7.65   | 84    | 411885   | 23.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.40%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 226459   | 23.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 93.92%  |
| 29) Benzene-d6                 | 8.28   | 84    | 826970   | 24.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.64%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 238604   | 23.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 94.92%  |
| 37) Toluene-d8                 | 10.33  | 98    | 816250   | 25.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.36% |
| 38) trans-1,3-Dichloropropene- | 10.59  | 79    | 118439   | 23.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 93.40%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 99433    | 48.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 96.78%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 207447   | 24.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.60%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 281744   | 26.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 105.72% |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.03 | 85  | 5694   | 0.676 ug/L   | 96     |
| 3) Chloromethane               | 2.22 | 50  | 4915   | 0.664 ug/L   | 88     |
| 5) Vinyl chloride              | 2.37 | 62  | 7756   | 0.823 ug/L # | 40     |
| 6) Bromomethane                | 2.79 | 94  | 6117   | 0.869 ug/L   | 95     |
| 8) Chloroethane                | 2.93 | 64  | 4133m  | 0.713 ug/L   |        |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 4800   | 0.622 ug/L   | 92     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 9237m  | 1.012 ug/L   |        |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 9473m  | 1.021 ug/L   |        |
| 13) Acetone                    | 4.15 | 43  | 5544m  | 3.027 ug/L   |        |
| 14) Carbon disulfide           | 4.39 | 76  | 19010  | 0.670 ug/L # | 93     |
| 15) Methyl Acetate             | 4.70 | 43  | 3906m  | 0.879 ug/L   |        |
| 16) Methylene chloride         | 4.92 | 84  | 27796  | 2.365 ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 10067m | 0.723 ug/L   |        |
| 18) trans-1,2-Dichloroethene   | 5.44 | 96  | 7065   | 0.717 ug/L   | 92     |
| 19) 1,1-Dichloroethane         | 6.23 | 63  | 10696  | 0.637 ug/L   | 99     |
| 21) 2-Butanone                 | 7.14 | 43  | 9696m  | 3.154 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 6958   | 0.678 ug/L   | 77     |

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 Sample : MDL01  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL01

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MMDadoda  
 9/8/2020 10:12:13 AM

Quant Time: Sep 05 05:19:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 05 04:18:48 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 23) Bromochloromethane          | 7.52  | 128  | 3351     | 0.704 | ug/L   | 95       |
| 25) Chloroform                  | 7.68  | 83   | 13836m   | 0.797 | ug/L   |          |
| 27) 1,2-Dichloroethane          | 8.41  | 62   | 8221     | 0.711 | ug/L   | 95       |
| 30) Cyclohexane                 | 7.96  | 56   | 11014    | 0.685 | ug/L   | 96       |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 10699    | 0.734 | ug/L   | 98       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 9838     | 0.706 | ug/L   | 99       |
| 34) Benzene                     | 8.33  | 78   | 26647    | 0.724 | ug/L   | 100      |
| 35) Trichloroethene             | 9.10  | 95   | 7068     | 0.693 | ug/L   | 93       |
| 36) Methylcyclohexane           | 9.34  | 83   | 12490    | 0.700 | ug/L   | 95       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 6280     | 0.690 | ug/L # | 94       |
| 41) Bromodichloromethane        | 9.65  | 83   | 8910     | 0.700 | ug/L   | 97       |
| 42) cis-1,3-Dichloropropene     | 10.08 | 75   | 9930     | 0.643 | ug/L   | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 15679m   | 2.433 | ug/L   |          |
| 44) Toluene                     | 10.39 | 91   | 29560    | 0.718 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 8910m    | 0.645 | ug/L   |          |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 5366     | 0.744 | ug/L   | 97       |
| 47) Tetrachloroethene           | 10.87 | 164  | 6155     | 0.753 | ug/L   | 94       |
| 49) 2-Hexanone                  | 10.97 | 43   | 5565     | 1.240 | ug/L # | 95       |
| 50) Dibromochloromethane        | 11.13 | 129  | 6010     | 0.659 | ug/L   | 87       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 4945     | 0.686 | ug/L   | 91       |
| 52) Chlorobenzene               | 11.66 | 112  | 18606    | 0.712 | ug/L   | 94       |
| 53) Ethylbenzene                | 11.73 | 91   | 32103    | 0.692 | ug/L   | 98       |
| 54) m,p-Xylene                  | 11.85 | 106  | 13203    | 0.745 | ug/L   | 76       |
| 55) o-xylene                    | 12.17 | 106  | 11878    | 0.703 | ug/L   | 98       |
| 56) Styrene                     | 12.18 | 104  | 19233    | 0.663 | ug/L   | 95       |
| 57) Isopropylbenzene            | 12.47 | 105  | 34004    | 0.735 | ug/L # | 86       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 7348     | 0.855 | ug/L # | 92       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 4247m    | 0.661 | ug/L   |          |
| 62) Bromoform                   | 12.35 | 173  | 3459     | 0.668 | ug/L # | 95       |
| 63) 1,3-Dichlorobenzene         | 13.51 | 146  | 14569    | 0.750 | ug/L   | 94       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 14951    | 0.776 | ug/L   | 91       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 12733    | 0.738 | ug/L # | 83       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 888m     | 0.552 | ug/L   |          |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 9647     | 0.721 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.14 | 180  | 7855     | 0.678 | ug/L   | 98       |
| 69) Naphthalene                 | 15.37 | 128  | 16374    | 0.670 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 7104     | 0.715 | ug/L   | 99       |
| -----                           |       |      |          |       |        |          |

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

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