

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100918\  
 Data File : VW005937.D  
 Acq On : 09 Oct 2018 12:01  
 Operator : SY/AP  
 Sample : VSTD00595  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00595

Manual Integrations  
 APPROVED

MMDadoda  
 10/10/2018 10:50:48 AM

Quant Time: Oct 09 14:12:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100918S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 09 14:04:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 385860   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 364395   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 196160   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 24304 | 4.94 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 19604 | 5.11 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 43834 | 4.08 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.10  | 46  | 11471 | 7.26 | ug/L | 0.01 |
| 24) Chloroform-d               | 7.65  | 84  | 39328 | 3.97 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 21476 | 3.58 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 77162 | 4.28 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 22945 | 4.40 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.33 | 98  | 77405 | 4.35 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 10431 | 3.81 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 9518  | 7.80 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 20280 | 4.00 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 30618 | 4.41 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 19201m | 4.244 | ug/L   |
| 3) Chloromethane               | 2.21  | 50  | 18600  | 4.413 | ug/L   |
| 5) Vinyl chloride              | 2.37  | 62  | 31676  | 5.212 | ug/L   |
| 6) Bromomethane                | 2.79  | 94  | 25352  | 6.934 | ug/L   |
| 8) Chloroethane                | 2.93  | 64  | 20101  | 5.949 | ug/L   |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 23744  | 5.113 | ug/L   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 23690  | 4.516 | ug/L # |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 23817  | 4.754 | ug/L   |
| 13) Acetone                    | 4.14  | 43  | 12353  | 7.512 | ug/L   |
| 14) Carbon disulfide           | 4.37  | 76  | 77138  | 4.911 | ug/L   |
| 15) Methyl Acetate             | 4.68  | 43  | 11619  | 3.981 | ug/L   |
| 16) Methylene chloride         | 4.91  | 84  | 28471  | 4.475 | ug/L   |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 38773  | 4.864 | ug/L # |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 26499  | 5.143 | ug/L   |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 42319  | 4.439 | ug/L   |
| 21) 2-Butanone                 | 7.18  | 43  | 18623  | 9.456 | ug/L   |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 29358  | 5.242 | ug/L   |
| 23) Bromochloromethane         | 7.51  | 128 | 13333  | 5.129 | ug/L   |
| 25) Chloroform                 | 7.68  | 83  | 46686  | 4.577 | ug/L   |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 30833  | 4.105 | ug/L   |
| 30) Cyclohexane                | 7.96  | 56  | 42427  | 5.137 | ug/L   |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 40145  | 4.499 | ug/L   |
| 32) Carbon tetrachloride       | 8.07  | 117 | 38982  | 4.486 | ug/L   |
| 34) Benzene                    | 8.33  | 78  | 100977 | 4.904 | ug/L   |
| 35) Trichloroethene            | 9.09  | 95  | 28233  | 5.126 | ug/L   |
| 36) Methylcyclohexane          | 9.34  | 83  | 51081  | 5.333 | ug/L   |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 24653  | 4.913 | ug/L # |
| 41) Bromodichloromethane       | 9.65  | 83  | 32720  | 4.638 | ug/L # |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 39009  | 4.708 | ug/L   |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 37172  | 9.078 | ug/L   |

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 ALS Vial : 1 Sample Multiplier: 1

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 10/10/2018 10:50:48 AM

Quant Time: Oct 09 14:12:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100918S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 09 14:04:00 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 44) Toluene                    | 10.39 | 91   | 111156   | 4.831 | ug/L   | 100      |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 33475    | 4.338 | ug/L   | 100      |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 20409    | 4.874 | ug/L   | 98       |
| 47) Tetrachloroethene          | 10.87 | 164  | 25802    | 5.317 | ug/L   | 95       |
| 49) 2-Hexanone                 | 10.98 | 43   | 25239    | 8.781 | ug/L   | 97       |
| 50) Dibromochloromethane       | 11.13 | 129  | 25175    | 4.794 | ug/L   | 97       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 20811    | 5.141 | ug/L   | 98       |
| 52) Chlorobenzene              | 11.66 | 112  | 75761    | 5.005 | ug/L   | 99       |
| 53) Ethylbenzene               | 11.74 | 91   | 130392   | 4.949 | ug/L   | 98       |
| 54) m,p-Xylene                 | 11.84 | 106  | 50932    | 5.132 | ug/L   | 99       |
| 55) o-xylene                   | 12.17 | 106  | 47457    | 5.073 | ug/L   | 99       |
| 56) Styrene                    | 12.18 | 104  | 81676    | 4.975 | ug/L   | 96       |
| 57) Isopropylbenzene           | 12.47 | 105  | 132771   | 4.969 | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 24891    | 4.660 | ug/L   | 95       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 18720    | 4.318 | ug/L   | 96       |
| 62) Bromoform                  | 12.35 | 173  | 15953    | 4.573 | ug/L   | 99       |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 64796    | 5.200 | ug/L   | 100      |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 65149    | 5.007 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 58556    | 4.884 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 4443     | 3.897 | ug/L # | 81       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 52088    | 5.094 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 44196    | 5.261 | ug/L   | 99       |
| 69) Naphthalene                | 15.38 | 128  | 86731    | 5.153 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 39998    | 5.080 | ug/L   | 99       |
| -----                          |       |      |          |       |        |          |

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

