

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\  
 Data File : VV009161.D  
 Acq On : 04 Jan 2019 14:41  
 Operator : SY/MD  
 Sample : VSTD00568  
 Misc : 5.00 G/10ML/MSVOA V/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

Manual Integrations  
 APPROVED

MMDadoda  
 1/8/2019 12:00:09 AM

Quant Time: Jan 05 04:44:12 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M

Quant Title : VOC Analysis

QLast Update : Sat Jan 05 04:20:20 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 189518   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 173608   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 86263    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 8372  | 6.46  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 7719  | 6.14  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 25523 | 5.89  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.96  | 46  | 9846m | 10.96 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 23027 | 5.77  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 12234 | 5.73  | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 44917 | 5.81  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 13248 | 5.97  | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 42257 | 5.79  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.67  | 79  | 6017  | 5.72  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.15  | 63  | 5211  | 9.96  | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 13153 | 5.40  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 17633 | 6.05  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 16726  | 5.490 ug/L  | 100    |
| 3) Chloromethane               | 1.25 | 50  | 11600  | 5.622 ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 12167  | 5.507 ug/L  | 96     |
| 6) Bromomethane                | 1.53 | 94  | 8482   | 5.451 ug/L  | 99     |
| 8) Chloroethane                | 1.60 | 64  | 7549   | 5.545 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 21252  | 5.247 ug/L  | 96     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 14099  | 5.227 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 12475  | 5.333 ug/L  | 87     |
| 13) Acetone                    | 2.22 | 43  | 13440  | 10.399 ug/L | 91     |
| 14) Carbon disulfide           | 2.31 | 76  | 35590  | 5.324 ug/L  | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 8117   | 5.076 ug/L  | # 84   |
| 16) Methylene chloride         | 2.53 | 84  | 15358  | 5.424 ug/L  | 95     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 28313  | 4.941 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 13279  | 5.356 ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 21270  | 5.166 ug/L  | 95     |
| 21) 2-Butanone                 | 4.05 | 43  | 10928m | 9.194 ug/L  |        |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 13940  | 5.260 ug/L  | 98     |
| 23) Bromochloromethane         | 4.30 | 128 | 6183   | 4.959 ug/L  | 92     |
| 25) Chloroform                 | 4.42 | 83  | 22484  | 5.128 ug/L  | 99     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 15363  | 5.217 ug/L  | 99     |
| 30) Cyclohexane                | 4.72 | 56  | 20348  | 5.287 ug/L  | 95     |
| 31) 1,1,1-Trichloroethane      | 4.65 | 97  | 21385  | 5.067 ug/L  | 99     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 19784  | 5.121 ug/L  | 97     |
| 34) Benzene                    | 5.14 | 78  | 47465  | 5.086 ug/L  | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 13787  | 5.128 ug/L  | 98     |
| 36) Methylcyclohexane          | 6.17 | 83  | 23787  | 5.295 ug/L  | 98     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 11128  | 4.947 ug/L  | 98     |
| 41) Bromodichloromethane       | 6.55 | 83  | 14938  | 4.845 ug/L  | 96     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 16697  | 4.684 ug/L  | 100    |
| 43) 4-Methyl-2-pentanone       | 7.29 | 43  | 21009  | 9.798 ug/L  | 96     |

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 Acq On : 04 Jan 2019 14:41  
 Operator : SY/MD  
 Sample : VSTD00568  
 Misc : 5.00 G/10ML/MSVOA V/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

Manual Integrations  
 APPROVED

MMDadoda  
 1/8/2019 12:00:09 AM

Quant Time: Jan 05 04:44:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jan 05 04:20:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 44) Toluene                    | 7.43  | 91   | 50738    | 5.042 | ug/L   | 96       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 14441    | 4.627 | ug/L   | 95       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 10087    | 5.073 | ug/L   | 96       |
| 47) Tetrachloroethene          | 8.02  | 164  | 12053    | 5.174 | ug/L   | 98       |
| 49) 2-Hexanone                 | 8.20  | 43   | 14535    | 9.211 | ug/L   | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 11465    | 4.694 | ug/L   | 94       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 10143    | 4.879 | ug/L   | 95       |
| 52) Chlorobenzene              | 8.93  | 112  | 35044    | 5.076 | ug/L   | 99       |
| 53) Ethylbenzene               | 9.05  | 91   | 57121    | 5.020 | ug/L   | 100      |
| 54) m,p-Xylene                 | 9.18  | 106  | 21948    | 4.951 | ug/L   | 93       |
| 55) o-xylene                   | 9.59  | 106  | 19936    | 4.863 | ug/L   | 98       |
| 56) Styrene                    | 9.60  | 104  | 33340    | 4.822 | ug/L   | 98       |
| 57) Isopropylbenzene           | 9.98  | 105  | 55977    | 4.922 | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 12420    | 4.662 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 10492    | 4.928 | ug/L   | 96       |
| 62) Bromoform                  | 9.78  | 173  | 7198     | 4.725 | ug/L   | 94       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 28375    | 5.221 | ug/L   | 99       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 29545    | 5.215 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 26950    | 5.205 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 2420     | 4.502 | ug/L # | 79       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 22196    | 5.064 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 17596    | 4.932 | ug/L   | 98       |
| 69) Naphthalene                | 13.55 | 128  | 31405    | 4.321 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 15839    | 4.837 | ug/L   | 98       |
| -----                          |       |      |          |       |        |          |

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

