

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030519\  
 Data File : VV009487.D  
 Acq On : 05 Mar 2019 12:17  
 Operator : SY/MD  
 Sample : VSTD10064  
 Misc : 5.00G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10064

Quant Time: Mar 05 12:40:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 05 11:49:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 160562   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 155115   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 78332    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 202574 | 100.28 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 241644 | 92.00  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 518066 | 96.98  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.94  | 46  | 165576 | 272.06 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 394876 | 101.40 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 233285 | 108.28 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 798349 | 96.82  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 235609 | 97.50  | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 798493 | 100.95 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 128080 | 106.04 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.14  | 63  | 131557 | 257.24 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 269669 | 114.26 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 286682 | 98.81  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 197006 | 96.930 ug/L  | 98     |
| 3) Chloromethane               | 1.25 | 50  | 201326 | 93.323 ug/L  | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 224212 | 93.545 ug/L  | 98     |
| 6) Bromomethane                | 1.53 | 94  | 275662 | 106.939 ug/L | 99     |
| 8) Chloroethane                | 1.59 | 64  | 194954 | 95.391 ug/L  | 97     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 454347 | 94.010 ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 260312 | 97.072 ug/L  | 97     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 219266 | 95.093 ug/L  | 89     |
| 13) Acetone                    | 2.21 | 43  | 145529 | 209.159 ug/L | 97     |
| 14) Carbon disulfide           | 2.31 | 76  | 587725 | 98.102 ug/L  | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 123407 | 134.230 ug/L | 97     |
| 16) Methylene chloride         | 2.53 | 84  | 195285 | 89.796 ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 525689 | 104.773 ug/L | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 198863 | 99.230 ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 350153 | 98.351 ug/L  | 100    |
| 21) 2-Butanone                 | 4.03 | 43  | 196273 | 226.366 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 226747 | 100.636 ug/L | 99     |
| 23) Bromochloromethane         | 4.30 | 128 | 103856 | 102.709 ug/L | 95     |
| 25) Chloroform                 | 4.43 | 83  | 386707 | 99.809 ug/L  | 99     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 279483 | 104.281 ug/L | 100    |
| 30) Cyclohexane                | 4.72 | 56  | 335401 | 91.281 ug/L  | 96     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 357239 | 96.972 ug/L  | 98     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 319638 | 101.733 ug/L | 100    |
| 34) Benzene                    | 5.15 | 78  | 831879 | 96.187 ug/L  | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 233117 | 97.376 ug/L  | 98     |
| 36) Methylcyclohexane          | 6.18 | 83  | 393026 | 94.026 ug/L  | 97     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 208330 | 96.965 ug/L  | 99     |
| 41) Bromodichloromethane       | 6.56 | 83  | 299962 | 98.175 ug/L  | 98     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 346366 | 101.460 ug/L | 97     |
| 43) 4-Methyl-2-pentanone       | 7.28 | 43  | 362403 | 235.927 ug/L | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 44) Toluene                    | 7.43  | 91   | 951712   | 98.390  | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 323433   | 104.503 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 184892   | 104.182 | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 183561   | 103.519 | ug/L  | 95       |
| 49) 2-Hexanone                 | 8.19  | 43   | 289361   | 225.607 | ug/L  | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 238439   | 107.411 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 195124   | 109.215 | ug/L  | 100      |
| 52) Chlorobenzene              | 8.93  | 112  | 627944   | 100.225 | ug/L  | 99       |
| 53) Ethylbenzene               | 9.06  | 91   | 1094063  | 98.892  | ug/L  | 98       |
| 54) m,p-Xylene                 | 9.18  | 106  | 428793   | 99.498  | ug/L  | 98       |
| 55) o-xylene                   | 9.59  | 106  | 410004   | 100.345 | ug/L  | 93       |
| 56) Styrene                    | 9.60  | 104  | 694285   | 101.304 | ug/L  | 99       |
| 57) Isopropylbenzene           | 9.98  | 105  | 1116744  | 100.039 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 271552   | 112.524 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 196655   | 114.412 | ug/L  | 99       |
| 62) Bromoform                  | 9.78  | 173  | 151451   | 107.702 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 492223   | 97.892  | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 492913   | 98.212  | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 459328   | 97.226  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 55329    | 118.614 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 351608   | 99.033  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 301760   | 109.482 | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 732068   | 131.175 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 283443   | 110.940 | ug/L  | 99       |

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

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