

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010819\  
 Data File : VV009191.D  
 Acq On : 08 Jan 2019 13:05  
 Operator : SY/MD  
 Sample : VSTD2.577  
 Misc : 5.00 G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.577

Manual Integrations  
 APPROVED

MMDadoda  
 1/9/2019 3:28:42 PM

Quant Time: Jan 08 14:29:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010819S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 08 14:22:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 269490   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 247945   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 121138   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 5264  | 2.86 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 5346  | 2.99 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 15284 | 2.48 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.98  | 46  | 4490m | 3.46 | ug/L | 0.02 |
| 24) Chloroform-d               | 4.40  | 84  | 14645 | 2.58 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 7936  | 2.61 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 28393 | 2.57 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 8278  | 2.61 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 26655 | 2.56 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.67  | 79  | 3670  | 2.44 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.15  | 63  | 2306  | 3.08 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 7278  | 2.09 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 12006 | 2.93 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 11216 | 2.589 ug/L   | 90     |
| 3) Chloromethane               | 1.25 | 50  | 6931  | 2.362 ug/L   | 92     |
| 5) Vinyl chloride              | 1.32 | 62  | 7149  | 2.276 ug/L   | 98     |
| 6) Bromomethane                | 1.53 | 94  | 5638  | 2.548 ug/L   | 97     |
| 8) Chloroethane                | 1.60 | 64  | 5184  | 2.678 ug/L   | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 13837 | 2.402 ug/L   | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 9062  | 2.363 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 7655  | 2.301 ug/L   | 94     |
| 13) Acetone                    | 2.22 | 43  | 7111  | 3.869 ug/L   | 83     |
| 14) Carbon disulfide           | 2.32 | 76  | 22617 | 2.379 ug/L   | 98     |
| 15) Methyl Acetate             | 2.48 | 43  | 4198  | 1.846 ug/L   | 99     |
| 16) Methylene chloride         | 2.53 | 84  | 10515 | 2.612 ug/L   | 90     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 18763 | 2.303 ug/L   | 96     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 8595  | 2.438 ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 13833 | 2.363 ug/L   | 98     |
| 21) 2-Butanone                 | 4.05 | 43  | 7265m | 4.519 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 9086  | 2.411 ug/L   | 88     |
| 23) Bromochloromethane         | 4.30 | 128 | 3834  | 2.162 ug/L   | 95     |
| 25) Chloroform                 | 4.42 | 83  | 14386 | 2.308 ug/L   | 97     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 9519  | 2.273 ug/L # | 90     |
| 30) Cyclohexane                | 4.72 | 56  | 12627 | 2.297 ug/L # | 91     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 13671 | 2.268 ug/L   | 99     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 12220 | 2.215 ug/L   | 98     |
| 34) Benzene                    | 5.15 | 78  | 30296 | 2.273 ug/L   | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 8962  | 2.334 ug/L   | 95     |
| 36) Methylcyclohexane          | 6.17 | 83  | 14908 | 2.324 ug/L   | 99     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 7831  | 2.438 ug/L # | 90     |
| 41) Bromodichloromethane       | 6.56 | 83  | 9735  | 2.211 ug/L # | 96     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 10506 | 2.064 ug/L   | 99     |
| 43) 4-Methyl-2-pentanone       | 7.29 | 43  | 11901 | 3.886 ug/L   | 97     |

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 QLast Update : Tue Jan 08 14:22:31 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 44) Toluene                     | 7.43  | 91   | 33478    | 2.330 | ug/L   | 95       |
| 45) trans-1,3-Dichloropropene   | 7.69  | 75   | 9416     | 2.113 | ug/L   | 96       |
| 46) 1,1,2-Trichloroethane       | 7.88  | 97   | 6346     | 2.235 | ug/L   | 95       |
| 47) Tetrachloroethene           | 8.02  | 164  | 7904     | 2.376 | ug/L   | 94       |
| 49) 2-Hexanone                  | 8.20  | 43   | 8772     | 3.892 | ug/L   | 94       |
| 50) Dibromochloromethane        | 8.29  | 129  | 7112     | 2.039 | ug/L   | 93       |
| 51) 1,2-Dibromoethane           | 8.40  | 107  | 6586     | 2.218 | ug/L # | 93       |
| 52) Chlorobenzene               | 8.93  | 112  | 23680    | 2.402 | ug/L   | 98       |
| 53) Ethylbenzene                | 9.05  | 91   | 37792    | 2.325 | ug/L   | 98       |
| 54) m,p-Xylene                  | 9.18  | 106  | 14541    | 2.296 | ug/L   | 97       |
| 55) o-xylene                    | 9.59  | 106  | 13633    | 2.329 | ug/L   | 96       |
| 56) Styrene                     | 9.60  | 104  | 21899    | 2.218 | ug/L   | 98       |
| 57) Isopropylbenzene            | 9.98  | 105  | 37584    | 2.314 | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 7523     | 1.977 | ug/L   | 86       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 6666     | 2.192 | ug/L   | 100      |
| 62) Bromoform                   | 9.78  | 173  | 4368     | 2.042 | ug/L   | 98       |
| 63) 1,3-Dichlorobenzene         | 11.23 | 146  | 20004    | 2.621 | ug/L   | 95       |
| 64) 1,4-Dichlorobenzene         | 11.32 | 146  | 20935    | 2.631 | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 18558    | 2.552 | ug/L   | 94       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 1332     | 1.765 | ug/L   | 86       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 16724    | 2.717 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 12580    | 2.511 | ug/L   | 93       |
| 69) Naphthalene                 | 13.56 | 128  | 23432    | 2.296 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 11883    | 2.584 | ug/L   | 97       |
| -----                           |       |      |          |       |        |          |

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

