

Data File : VV013464.D  
Acq On : 01 Nov 2019 12:06  
Operator : SY/MD  
Sample : VSTD10066  
Misc : 5.00G/10.0ML/MSVOA\_V/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10066

Quant Time: Nov 02 02:17:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Nov 02 03:13:10 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 836808   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 807541   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 445559   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |        |      |       |
|--------------------------------|-------|-----|---------|--------|------|-------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 1144146 | 89.39  | ug/L | 0.00  |
| 7) Chloroethane-d5             | 1.58  | 69  | 753595  | 74.19  | ug/L | 0.00  |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 1940938 | 91.12  | ug/L | 0.00  |
| 20) 2-Butanone-d5              | 3.93  | 46  | 1127227 | 248.36 | ug/L | -0.02 |
| 24) Chloroform-d               | 4.39  | 84  | 2382516 | 102.91 | ug/L | 0.00  |
| 26) 1,2-Dichloroethane-d4      | 5.07  | 65  | 1388387 | 103.72 | ug/L | 0.00  |
| 29) Benzene-d6                 | 5.09  | 84  | 4808939 | 105.62 | ug/L | 0.00  |
| 33) 1,2-Dichloropropane-d6     | 6.11  | 67  | 1501735 | 105.16 | ug/L | 0.00  |
| 37) Toluene-d8                 | 7.35  | 98  | 4426488 | 107.78 | ug/L | 0.00  |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 697038  | 115.97 | ug/L | 0.00  |
| 39) 2-Hexanone-d5              | 8.13  | 63  | 793813  | 279.67 | ug/L | 0.00  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.25 | 84  | 1410588 | 106.64 | ug/L | 0.00  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 1741371 | 100.38 | ug/L | 0.00  |

#### Target Compounds

|                                |      |     |         |         |      | Qvalue |
|--------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 1099278 | 116.724 | ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 1198052 | 100.355 | ug/L | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 1173554 | 99.776  | ug/L | 98     |
| 6) Bromomethane                | 1.53 | 94  | 611190  | 86.136  | ug/L | 99     |
| 8) Chloroethane                | 1.60 | 64  | 563325  | 80.004  | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 1610776 | 100.837 | ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 965158  | 94.844  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 920836  | 97.783  | ug/L | 99     |
| 13) Acetone                    | 2.20 | 43  | 916533  | 197.570 | ug/L | 98     |
| 14) Carbon disulfide           | 2.31 | 76  | 3689012 | 117.276 | ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 953916  | 125.614 | ug/L | 99     |
| 16) Methylene chloride         | 2.53 | 84  | 1300987 | 102.352 | ug/L | 97     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 3379006 | 119.722 | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 1275026 | 111.034 | ug/L | 97     |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 2345094 | 111.927 | ug/L | 99     |
| 21) 2-Butanone                 | 4.01 | 43  | 1391255 | 253.071 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 1415276 | 113.764 | ug/L | 99     |
| 23) Bromochloromethane         | 4.29 | 128 | 674705  | 110.289 | ug/L | 98     |
| 25) Chloroform                 | 4.42 | 83  | 2338630 | 107.177 | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 5.17 | 62  | 1715394 | 111.666 | ug/L | 100    |
| 30) Cyclohexane                | 4.72 | 56  | 2221086 | 122.993 | ug/L | 99     |
| 31) 1,1,1-Trichloroethane      | 4.65 | 97  | 1962741 | 117.687 | ug/L | 98     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 1769897 | 117.085 | ug/L | 99     |
| 34) Benzene                    | 5.14 | 78  | 5168805 | 112.531 | ug/L | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 1388931 | 109.050 | ug/L | 99     |
| 36) Methylcyclohexane          | 6.17 | 83  | 2282334 | 116.073 | ug/L | 98     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 1326392 | 111.584 | ug/L | 100    |
| 41) Bromodichloromethane       | 6.55 | 83  | 1749765 | 115.098 | ug/L | 100    |
| 42) cis-1,3-Dichloropropene    | 7.06 | 75  | 2200512 | 126.873 | ug/L | 100    |
| 43) 4-Methyl-2-pentanone       | 7.27 | 43  | 2534540 | 257.785 | ug/L | 97     |

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Quant Title : VOC Analysis  
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Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 44) Toluene                    | 7.43  | 91   | 5379381  | 111.953 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 1846148  | 125.104 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 1078122  | 108.654 | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.01  | 164  | 1177143  | 112.331 | ug/L  | 96       |
| 49) 2-Hexanone                 | 8.18  | 43   | 1938824  | 265.616 | ug/L  | 99       |
| 50) Dibromochloromethane       | 8.29  | 129  | 1338228  | 116.067 | ug/L  | 100      |
| 51) 1,2-Dibromoethane          | 8.39  | 107  | 1126300  | 114.865 | ug/L  | 99       |
| 52) Chlorobenzene              | 8.92  | 112  | 3527495  | 106.287 | ug/L  | 100      |
| 53) Ethylbenzene               | 9.05  | 91   | 5988431  | 112.354 | ug/L  | 98       |
| 54) m,p-Xylene                 | 9.18  | 106  | 2334105  | 115.663 | ug/L  | 97       |
| 55) o-xylene                   | 9.58  | 106  | 2232719  | 117.100 | ug/L  | 94       |
| 56) Styrene                    | 9.60  | 104  | 3885276  | 115.997 | ug/L  | 100      |
| 57) Isopropylbenzene           | 9.97  | 105  | 5954641  | 117.209 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 1411535  | 115.195 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 1149190  | 113.129 | ug/L  | 99       |
| 62) Bromoform                  | 9.77  | 173  | 949148   | 122.904 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 11.22 | 146  | 3016369  | 108.440 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 11.31 | 146  | 3036143  | 104.681 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 2792708  | 105.966 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 283790   | 123.294 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 2494220  | 113.909 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 2228006  | 118.225 | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 4681523  | 125.419 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 2040053  | 112.572 | ug/L  | 98       |

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

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