

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY121420\  
 Data File : VY003747.D  
 Acq On : 14 Dec 2020 13:32  
 Operator : SY/MD  
 Sample : VSTD10082  
 Misc : 5.00G/10ML/MSVOA Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD10082

Quant Time: Dec 14 13:41:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM121420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 14 13:19:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 345667   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 321429   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 161623   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |       |
|--------------------------------|-------|-----|---------|--------|------|-------|
| 4) Vinyl Chloride-d3           | 2.25  | 65  | 454958  | 95.07  | ug/L | 0.00  |
| 7) Chloroethane-d5             | 2.76  | 69  | 338558  | 93.41  | ug/L | -0.01 |
| 10) 1,1-Dichloroethene-d2      | 3.86  | 63  | 951187  | 102.77 | ug/L | 0.00  |
| 20) 2-Butanone-d5              | 6.90  | 46  | 428283  | 233.62 | ug/L | 0.00  |
| 24) Chloroform-d               | 7.49  | 84  | 868046  | 98.36  | ug/L | 0.00  |
| 26) 1,2-Dichloroethane-d4      | 8.15  | 65  | 493351  | 98.76  | ug/L | 0.00  |
| 29) Benzene-d6                 | 8.12  | 84  | 1782490 | 96.49  | ug/L | 0.00  |
| 33) 1,2-Dichloropropane-d6     | 9.12  | 67  | 558367  | 100.96 | ug/L | 0.00  |
| 37) Toluene-d8                 | 10.18 | 98  | 1632530 | 98.54  | ug/L | 0.00  |
| 38) trans-1,3-Dichloropropene- | 10.44 | 79  | 284565  | 107.86 | ug/L | 0.00  |
| 39) 2-Hexanone-d5              | 10.79 | 63  | 342460  | 237.44 | ug/L | 0.00  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.56 | 84  | 498730  | 101.35 | ug/L | 0.00  |
| 61) 1,2-Dichlorobenzene-d4     | 13.72 | 152 | 563143  | 96.93  | ug/L | 0.00  |

## Target Compounds

|                                |       |     |         |         |      | Qvalue |
|--------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.91  | 85  | 545692  | 130.299 | ug/L | 100    |
| 3) Chloromethane               | 2.12  | 50  | 507051  | 115.025 | ug/L | 99     |
| 5) Vinyl chloride              | 2.26  | 62  | 517917  | 112.253 | ug/L | 99     |
| 6) Bromomethane                | 2.65  | 94  | 329804  | 113.007 | ug/L | 99     |
| 8) Chloroethane                | 2.80  | 64  | 307703  | 110.144 | ug/L | 99     |
| 9) Trichlorofluoromethane      | 3.13  | 101 | 783096  | 111.184 | ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 3.91  | 101 | 474980  | 105.801 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 3.88  | 96  | 459670  | 109.224 | ug/L | 91     |
| 13) Acetone                    | 3.95  | 43  | 274068  | 208.208 | ug/L | 100    |
| 14) Carbon disulfide           | 4.20  | 76  | 1626128 | 113.980 | ug/L | 99     |
| 15) Methyl Acetate             | 4.48  | 43  | 366391  | 110.221 | ug/L | 99     |
| 16) Methylene chloride         | 4.73  | 84  | 512422  | 83.228  | ug/L | 99     |
| 17) Methyl tert-butyl Ether    | 5.23  | 73  | 1373762 | 114.731 | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.23  | 96  | 500470  | 105.618 | ug/L | 98     |
| 19) 1,1-Dichloroethane         | 6.03  | 63  | 876222  | 109.102 | ug/L | 99     |
| 21) 2-Butanone                 | 7.00  | 43  | 486349  | 209.901 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 7.00  | 96  | 540158  | 107.294 | ug/L | 98     |
| 23) Bromochloromethane         | 7.34  | 128 | 260184  | 103.635 | ug/L | 96     |
| 25) Chloroform                 | 7.51  | 83  | 864599  | 107.154 | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 8.25  | 62  | 597120  | 109.235 | ug/L | 98     |
| 30) Cyclohexane                | 7.79  | 56  | 874473  | 120.374 | ug/L | 99     |
| 31) 1,1,1-Trichloroethane      | 7.71  | 97  | 769427  | 109.224 | ug/L | 100    |
| 32) Carbon tetrachloride       | 7.90  | 117 | 684122  | 110.105 | ug/L | 99     |
| 34) Benzene                    | 8.17  | 78  | 1985336 | 105.855 | ug/L | 100    |
| 35) Trichloroethene            | 8.94  | 95  | 537648  | 104.634 | ug/L | 99     |
| 36) Methylcyclohexane          | 9.19  | 83  | 910956  | 114.129 | ug/L | 98     |
| 40) 1,2-Dichloropropane        | 9.22  | 63  | 518396  | 109.502 | ug/L | 100    |
| 41) Bromodichloromethane       | 9.50  | 83  | 664362  | 110.965 | ug/L | 99     |
| 42) cis-1,3-Dichloropropene    | 9.93  | 75  | 856050  | 114.829 | ug/L | 98     |
| 43) 4-Methyl-2-pentanone       | 10.08 | 43  | 1039366 | 231.419 | ug/L | 100    |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 44) Toluene                    | 10.25 | 91   | 2137211  | 108.199 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.47 | 75   | 787691   | 114.587 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.65 | 97   | 427360   | 105.720 | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.72 | 164  | 415964   | 104.302 | ug/L  | 97       |
| 49) 2-Hexanone                 | 10.83 | 43   | 738697   | 233.609 | ug/L  | 100      |
| 50) Dibromochloromethane       | 10.98 | 129  | 512275   | 108.432 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 11.09 | 107  | 425596   | 108.305 | ug/L  | 96       |
| 52) Chlorobenzene              | 11.51 | 112  | 1343986  | 103.884 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.59 | 91   | 2328864  | 107.726 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.70 | 106  | 894859   | 107.738 | ug/L  | 98       |
| 55) o-xylene                   | 12.03 | 106  | 853439   | 107.078 | ug/L  | 97       |
| 56) Styrene                    | 12.04 | 104  | 1486958  | 109.260 | ug/L  | 100      |
| 57) Isopropylbenzene           | 12.33 | 105  | 2255391  | 108.101 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 494033   | 111.735 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 12.64 | 75   | 416055   | 106.907 | ug/L  | 100      |
| 62) Bromoform                  | 12.21 | 173  | 349510   | 112.648 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.37 | 146  | 1013582  | 103.887 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 13.45 | 146  | 1008080  | 102.022 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.74 | 146  | 923658   | 103.347 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.35 | 75   | 94885    | 113.432 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 14.50 | 180  | 693091   | 100.604 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.01 | 180  | 608431   | 103.920 | ug/L  | 99       |
| 69) Naphthalene                | 15.23 | 128  | 1512201  | 120.512 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 554559   | 103.980 | ug/L  | 99       |

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

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