

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032520\  
 Data File : VW015129.D  
 Acq On : 25 Mar 2020 09:37  
 Operator : SY/VA  
 Sample : VSTD2.503  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.503

Manual Integrations  
 APPROVED

apatel  
 4/15/2020 8:20:45 AM

Quant Time: Mar 25 14:03:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 25 13:57:31 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 632159   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 565737   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 227483   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |      |      |
|--------------------------------|-------|-----|--------|------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 31250  | 2.12 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 24689  | 2.27 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 59682  | 2.51 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 11607  | 4.52 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 53939  | 2.69 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 32128  | 2.85 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 100781 | 2.70 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 34043  | 2.72 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 80181  | 2.57 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 12403  | 2.67 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 7862   | 4.68 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 23436  | 2.86 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 22574  | 2.80 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 12897  | 2.428 ug/L   | 98     |
| 3) Chloromethane               | 2.21  | 50  | 27894  | 2.374 ug/L   | 99     |
| 5) Vinyl chloride              | 2.36  | 62  | 35814  | 2.340 ug/L   | 99     |
| 6) Bromomethane                | 2.78  | 94  | 19624  | 2.754 ug/L   | 96     |
| 8) Chloroethane                | 2.93  | 64  | 20982  | 2.464 ug/L   | 100    |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 17840  | 2.499 ug/L   | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 25833  | 2.622 ug/L # | 73     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 24689  | 2.641 ug/L   | 97     |
| 13) Acetone                    | 4.13  | 43  | 11945  | 4.161 ug/L   | 88     |
| 14) Carbon disulfide           | 4.38  | 76  | 91861  | 2.603 ug/L   | 97     |
| 15) Methyl Acetate             | 4.68  | 43  | 14564m | 2.788 ug/L   |        |
| 16) Methylene chloride         | 4.92  | 84  | 32562  | 2.811 ug/L   | 95     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 29140  | 2.528 ug/L # | 89     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 25830  | 2.664 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 55975  | 2.601 ug/L   | 99     |
| 21) 2-Butanone                 | 7.18  | 43  | 15568  | 4.422 ug/L   | 95     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 24009  | 2.448 ug/L   | 97     |
| 23) Bromochloromethane         | 7.51  | 128 | 11026  | 2.858 ug/L   | 91     |
| 25) Chloroform                 | 7.68  | 83  | 50398  | 2.575 ug/L   | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 36380  | 2.693 ug/L   | 100    |
| 30) Cyclohexane                | 7.95  | 56  | 40114  | 2.153 ug/L   | 98     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 39327  | 2.703 ug/L   | 97     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 34110  | 2.629 ug/L   | 100    |
| 34) Benzene                    | 8.32  | 78  | 106604 | 2.562 ug/L   | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 26968  | 2.658 ug/L   | 98     |
| 36) Methylcyclohexane          | 9.34  | 83  | 40175  | 2.324 ug/L   | 96     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 30734  | 2.660 ug/L   | 98     |
| 41) Bromodichloromethane       | 9.65  | 83  | 34911  | 2.678 ug/L   | 96     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 35095  | 2.333 ug/L   | 97     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 28512  | 4.394 ug/L   | 95     |

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 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 25 13:57:31 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 44) Toluene                    | 10.38 | 91   | 97843    | 2.415 | ug/L   | 98       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 31288    | 2.526 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 18339    | 2.785 | ug/L   | 97       |
| 47) Tetrachloroethene          | 10.86 | 164  | 17693    | 2.714 | ug/L   | 93       |
| 49) 2-Hexanone                 | 10.97 | 43   | 16054    | 3.464 | ug/L   | 96       |
| 50) Dibromochloromethane       | 11.13 | 129  | 17421    | 2.503 | ug/L   | 92       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 15703    | 2.733 | ug/L   | 96       |
| 52) Chlorobenzene              | 11.65 | 112  | 64300    | 2.692 | ug/L   | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 102468   | 2.310 | ug/L   | 100      |
| 54) m,p-Xylene                 | 11.83 | 106  | 34314    | 2.214 | ug/L   | 98       |
| 55) o-xylene                   | 12.16 | 106  | 31237    | 2.156 | ug/L   | 88       |
| 56) Styrene                    | 12.18 | 104  | 51619    | 2.086 | ug/L   | 98       |
| 57) Isopropylbenzene           | 12.46 | 105  | 84391    | 2.137 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 21793    | 2.620 | ug/L # | 98       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 16266    | 2.550 | ug/L   | 91       |
| 62) Bromoform                  | 12.35 | 173  | 8673     | 2.707 | ug/L # | 97       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 37961    | 2.581 | ug/L   | 95       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 40461    | 2.664 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 35266    | 2.638 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 3579     | 3.004 | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 24654    | 2.530 | ug/L   | 96       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 15680    | 2.179 | ug/L   | 98       |
| 69) Naphthalene                | 15.36 | 128  | 24065    | 2.960 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 15145    | 2.338 | ug/L   | 98       |

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

