

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\  
 Data File : VV009178.D  
 Acq On : 05 Jan 2019 00:28  
 Operator : SY/MD  
 Sample : VSTDCCC025EC  
 Misc : 5.00 G/10ML/MSVOA V/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 LabSampleId :  
 VSTD02574

Quant Time: Jan 05 05:05:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jan 05 05:00:49 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 0.402 | 0.369 | 8.2   | 88    | 0.00     |
| 3 T  | Chloromethane               | 0.272 | 0.253 | 7.0   | 89    | 0.00     |
| 4 S  | Vinyl Chloride-d3           | 0.171 | 0.142 | 17.0  | 90    | 0.00     |
| 5 T  | Vinyl chloride              | 0.291 | 0.271 | 6.9   | 89    | 0.00     |
| 6 T  | Bromomethane                | 0.205 | 0.183 | 10.7  | 81    | 0.00     |
| 7 S  | Chloroethane-d5             | 0.166 | 0.144 | 13.3  | 79    | 0.00     |
| 8 T  | Chloroethane                | 0.180 | 0.169 | 6.1   | 78    | 0.00     |
| 9 T  | Trichlorofluoromethane      | 0.534 | 0.540 | -1.1  | 93    | 0.00     |
| 10 S | 1,1-Dichloroethene-d2       | 0.572 | 0.498 | 12.9  | 90    | 0.00     |
| 11 T | 1,1,2-Trichloro-1,2,2-trifl | 0.356 | 0.347 | 2.5   | 91    | 0.00     |
| 12 T | 1,1-Dichloroethene          | 0.309 | 0.298 | 3.6   | 89    | 0.00     |
| 13 T | Acetone                     | 0.170 | 0.133 | 21.8  | 91    | 0.00     |
| 14 T | Carbon disulfide            | 0.882 | 0.810 | 8.2   | 86    | 0.00     |
| 15 T | Methyl Acetate              | 0.211 | 0.231 | -9.5  | 110   | 0.00     |
| 16 T | Methylene chloride          | 0.373 | 0.345 | 7.5   | 89    | 0.00     |
| 17 T | Methyl tert-butyl Ether     | 0.756 | 0.843 | -11.5 | 104   | 0.00     |
| 18 T | trans-1,2-Dichloroethene    | 0.327 | 0.327 | 0.0   | 90    | 0.00     |
| 19 T | 1,1-Dichloroethane          | 0.543 | 0.552 | -1.7  | 92    | 0.00     |
| 20 S | 2-Butanone-d5               | 0.120 | 0.130 | -8.3  | 126   | 0.00     |
| 21   | 2-Butanone                  | 0.149 | 0.161 | -8.1  | 117   | 0.00     |
| 22 T | cis-1,2-Dichloroethene      | 0.350 | 0.362 | -3.4  | 92    | 0.00     |
| 23 T | Bromochloromethane          | 0.164 | 0.173 | -5.5  | 94    | 0.00     |
| 24 S | Chloroform-d                | 0.526 | 0.496 | 5.7   | 93    | 0.00     |
| 25 T | Chloroform                  | 0.578 | 0.591 | -2.2  | 90    | 0.00     |
| 26 S | 1,2-Dichloroethane-d4       | 0.282 | 0.274 | 2.8   | 100   | 0.00     |
| 27 T | 1,2-Dichloroethane          | 0.388 | 0.409 | -5.4  | 98    | 0.00     |
| 28 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 29 S | Benzene-d6                  | 1.114 | 0.990 | 11.1  | 93    | 0.00     |
| 30 T | Cyclohexane                 | 0.554 | 0.510 | 7.9   | 90    | 0.00     |
| 31 T | 1,1,1-Trichloroethane       | 0.608 | 0.580 | 4.6   | 89    | 0.00     |
| 32 T | Carbon tetrachloride        | 0.556 | 0.530 | 4.7   | 89    | 0.00     |
| 33 S | 1,2-Dichloropropane-d6      | 0.319 | 0.295 | 7.5   | 99    | 0.00     |
| 34 T | Benzene                     | 1.344 | 1.288 | 4.2   | 91    | 0.00     |
| 35 T | Trichloroethene             | 0.387 | 0.378 | 2.3   | 93    | 0.00     |
| 36 T | Methylcyclohexane           | 0.647 | 0.601 | 7.1   | 91    | 0.00     |
| 37 S | Toluene-d8                  | 1.051 | 0.925 | 12.0  | 93    | 0.00     |
| 38 S | trans-1,3-Dichloropropene-d | 0.152 | 0.132 | 13.2  | 97    | 0.00     |
| 39 S | 2-Hexanone-d5               | 0.075 | 0.082 | -9.3  | 125   | 0.00     |
| 40 T | 1,2-Dichloropropane         | 0.324 | 0.325 | -0.3  | 91    | 0.00     |
| 41 T | Bromodichloromethane        | 0.444 | 0.452 | -1.8  | 95    | 0.00     |
| 42 T | cis-1,3-Dichloropropene     | 0.513 | 0.505 | 1.6   | 91    | 0.00     |
| 43 T | 4-Methyl-2-pentanone        | 0.309 | 0.331 | -7.1  | 118   | 0.00     |
| 44 T | Toluene                     | 1.449 | 1.404 | 3.1   | 90    | 0.00     |
| 45 T | trans-1,3-Dichloropropene   | 0.449 | 0.469 | -4.5  | 99    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
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|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T | 1,1,2-Trichloroethane       | 0.286 | 0.302 | -5.6  | 101   | 0.00     |
| 47 T | Tetrachloroethene           | 0.335 | 0.310 | 7.5   | 87    | 0.00     |
| 48 S | 1,1,2,2-Tetrachloroethane-d | 0.351 | 0.362 | -3.1  | 112   | 0.00     |
| 49 T | 2-Hexanone                  | 0.227 | 0.236 | -4.0  | 115   | 0.00     |
| 50 T | Dibromochloromethane        | 0.352 | 0.366 | -4.0  | 98    | 0.00     |
| 51 T | 1,2-Dibromoethane           | 0.299 | 0.313 | -4.7  | 101   | 0.00     |
| 52 T | Chlorobenzene               | 0.994 | 0.980 | 1.4   | 94    | 0.00     |
| 53 T | Ethylbenzene                | 1.639 | 1.626 | 0.8   | 93    | 0.00     |
| 54 T | m,p-Xylene                  | 0.638 | 0.621 | 2.7   | 91    | 0.00     |
| 55 T | o-xylene                    | 0.590 | 0.600 | -1.7  | 95    | 0.00     |
| 56 T | Styrene                     | 0.996 | 1.042 | -4.6  | 96    | 0.00     |
| 57 T | Isopropylbenzene            | 1.638 | 1.672 | -2.1  | 94    | 0.00     |
| 58 T | 1,1,2,2-Tetrachloroethane   | 0.384 | 0.434 | -13.0 | 111   | 0.00     |
| 59   | 1,2,3-Trichloropropane      | 0.307 | 0.352 | -14.7 | 117   | 0.00     |
| 60 I | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 61 S | 1,2-Dichlorobenzene-d4      | 0.845 | 0.764 | 9.6   | 103   | 0.00     |
| 62 T | Bromoform                   | 0.442 | 0.457 | -3.4  | 101   | 0.00     |
| 63 T | 1,3-Dichlorobenzene         | 1.575 | 1.555 | 1.3   | 97    | 0.00     |
| 64 T | 1,4-Dichlorobenzene         | 1.642 | 1.558 | 5.1   | 94    | 0.00     |
| 65 T | 1,2-Dichlorobenzene         | 1.500 | 1.504 | -0.3  | 97    | 0.00     |
| 66 T | 1,2-Dibromo-3-chloropropane | 0.156 | 0.164 | -5.1  | 108   | 0.00     |
| 67   | 1,3,5-Trichlorobenzene      | 1.270 | 1.208 | 4.9   | 93    | 0.00     |
| 68 T | 1,2,4-trichlorobenzene      | 1.034 | 0.993 | 4.0   | 95    | 0.00     |
| 69   | Naphthalene                 | 2.106 | 2.093 | 0.6   | 107   | 0.00     |
| 70 T | 1,2,3-Trichlorobenzene      | 0.949 | 0.944 | 0.5   | 99    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0