

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052419\  
 Data File : VU032292.D  
 Acq On : 24 May 2019 05:55  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV57

Quant Time: May 24 07:34:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM052419WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 24 07:24:18 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 200%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 123   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 0.312 | 0.363 | -16.3 | 142   | 0.00     |
| 3 T  | Chloromethane               | 0.387 | 0.350 | 9.6   | 116   | 0.00     |
| 4 S  | Vinyl Chloride-d3           | 0.261 | 0.275 | -5.4  | 128   | 0.00     |
| 5 T  | Vinyl chloride              | 0.359 | 0.391 | -8.9  | 134   | 0.00     |
| 6 T  | Bromomethane                | 0.290 | 0.265 | 8.6   | 112   | 0.00     |
| 7 S  | Chloroethane-d5             | 0.251 | 0.242 | 3.6   | 118   | 0.00     |
| 8 T  | Chloroethane                | 0.246 | 0.232 | 5.7   | 118   | 0.00     |
| 9 T  | Trichlorofluoromethane      | 0.453 | 0.517 | -14.1 | 140   | 0.00     |
| 10 T | 1,1,2-Trichloro-1,2,2-trifl | 0.263 | 0.298 | -13.3 | 136   | 0.00     |
| 11 S | 1,1-Dichloroethene-d2       | 0.518 | 0.554 | -6.9  | 132   | 0.00     |
| 12 T | 1,1-Dichloroethene          | 0.293 | 0.314 | -7.2  | 130   | 0.00     |
| 13 T | Acetone                     | 0.201 | 0.158 | 21.4  | 104   | 0.00     |
| 14 T | Carbon disulfide            | 0.872 | 0.908 | -4.1  | 131   | 0.00     |
| 15 T | Methyl Acetate              | 0.392 | 0.323 | 17.6  | 102   | 0.00     |
| 16 T | Methylene chloride          | 0.418 | 0.359 | 14.1  | 106   | 0.00     |
| 17 T | trans-1,2-Dichloroethene    | 0.341 | 0.329 | 3.5   | 121   | 0.00     |
| 18 T | Methyl tert-butyl Ether     | 1.174 | 1.005 | 14.4  | 103   | 0.00     |
| 19 T | 1,1-Dichloroethane          | 0.617 | 0.568 | 7.9   | 111   | 0.00     |
| 20 T | cis-1,2-Dichloroethene      | 0.408 | 0.376 | 7.8   | 110   | 0.00     |
| 21 S | 2-Butanone-d5               | 0.249 | 0.225 | 9.6   | 106   | 0.00     |
| 22 T | 2-Butanone                  | 0.274 | 0.240 | 12.4  | 103   | 0.00     |
| 23 T | Bromochloromethane          | 0.225 | 0.199 | 11.6  | 105   | 0.00     |
| 24 S | Chloroform-d                | 0.666 | 0.602 | 9.6   | 111   | 0.00     |
| 25 T | Chloroform                  | 0.683 | 0.609 | 10.8  | 110   | 0.00     |
| 26 S | 1,2-Dichloroethane-d4       | 0.419 | 0.361 | 13.8  | 105   | 0.00     |
| 27 T | 1,2-Dichloroethane          | 0.534 | 0.461 | 13.7  | 106   | 0.00     |
| 28 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 118   | 0.00     |
| 29 T | Cyclohexane                 | 0.391 | 0.484 | -23.8 | 144   | 0.00     |
| 30 T | 1,1,1-Trichloroethane       | 0.495 | 0.525 | -6.1  | 127   | 0.00     |
| 31 T | Carbon tetrachloride        | 0.405 | 0.453 | -11.9 | 133   | 0.00     |
| 32 S | Benzene-d6                  | 1.273 | 1.241 | 2.5   | 114   | 0.00     |
| 33 T | Benzene                     | 1.429 | 1.399 | 2.1   | 116   | 0.00     |
| 34 T | Trichloroethene             | 0.354 | 0.368 | -4.0  | 123   | 0.00     |
| 35 T | Methylcyclohexane           | 0.429 | 0.520 | -21.2 | 138   | 0.00     |
| 36 S | 1,2-Dichloropropane-d6      | 0.405 | 0.373 | 7.9   | 108   | 0.00     |
| 37 T | 1,2-Dichloropropane         | 0.372 | 0.347 | 6.7   | 111   | 0.00     |
| 38 T | Bromodichloromethane        | 0.516 | 0.465 | 9.9   | 109   | 0.00     |
| 39 T | cis-1,3-Dichloropropene     | 0.546 | 0.498 | 8.8   | 106   | 0.00     |
| 40 T | 4-Methyl-2-pentanone        | 0.511 | 0.462 | 9.6   | 107   | 0.00     |
| 41 S | Toluene-d8                  | 1.165 | 1.192 | -2.3  | 118   | 0.00     |
| 42 T | Toluene                     | 1.506 | 1.562 | -3.7  | 120   | 0.00     |
| 43 S | trans-1,3-Dichloropropene-d | 0.186 | 0.174 | 6.5   | 109   | 0.00     |
| 44 T | trans-1,3-Dichloropropene   | 0.482 | 0.454 | 5.8   | 108   | 0.00     |
| 45 T | 1,1,2-Trichloroethane       | 0.411 | 0.358 | 12.9  | 104   | 0.00     |

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Instrument :  
 MSVOA\_U  
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 VICV57

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Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 200%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T | Tetrachloroethene           | 0.266 | 0.297 | -11.7 | 134   | 0.00     |
| 47 S | 2-Hexanone-d5               | 0.170 | 0.157 | 7.6   | 106   | 0.00     |
| 48 T | 2-Hexanone                  | 0.401 | 0.377 | 6.0   | 107   | 0.00     |
| 49 T | Dibromochloromethane        | 0.435 | 0.397 | 8.7   | 109   | 0.00     |
| 50 T | 1,2-Dibromoethane           | 0.442 | 0.396 | 10.4  | 107   | 0.00     |
| 51 T | Chlorobenzene               | 1.009 | 0.985 | 2.4   | 117   | 0.00     |
| 52 T | Ethylbenzene                | 1.531 | 1.657 | -8.2  | 126   | 0.00     |
| 53 T | m,p-Xylene                  | 0.591 | 0.660 | -11.7 | 129   | 0.00     |
| 54 T | o-xylene                    | 0.616 | 0.659 | -7.0  | 123   | 0.00     |
| 55 T | Styrene                     | 1.057 | 1.144 | -8.2  | 120   | 0.00     |
| 56 T | Isopropylbenzene            | 1.439 | 1.671 | -16.1 | 132   | 0.00     |
| 57 S | 1,1,2,2-Tetrachloroethane-d | 0.677 | 0.592 | 12.6  | 105   | 0.00     |
| 58 T | 1,1,2,2-Tetrachloroethane   | 0.700 | 0.611 | 12.7  | 105   | 0.00     |
| 59   | 1,2,3-Trichloropropane      | 0.551 | 0.479 | 13.1  | 105   | 0.00     |
| 60 I | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 121   | 0.00     |
| 61 T | Bromoform                   | 0.746 | 0.622 | 16.6  | 108   | 0.00     |
| 62 T | 1,3-Dichlorobenzene         | 1.592 | 1.596 | -0.3  | 125   | 0.00     |
| 63 T | 1,4-Dichlorobenzene         | 1.655 | 1.640 | 0.9   | 124   | 0.00     |
| 64 S | 1,2-Dichlorobenzene-d4      | 1.051 | 1.020 | 2.9   | 121   | 0.00     |
| 65 T | 1,2-Dichlorobenzene         | 1.732 | 1.679 | 3.1   | 119   | 0.00     |
| 66 T | 1,2-Dibromo-3-chloropropane | 0.315 | 0.273 | 13.3  | 107   | 0.00     |
| 67   | 1,3,5-Trichlorobenzene      | 1.129 | 1.209 | -7.1  | 127   | 0.00     |
| 68 T | 1,2,4-trichlorobenzene      | 0.891 | 1.011 | -13.5 | 130   | 0.00     |
| 69   | Naphthalene                 | 3.116 | 3.635 | -16.7 | 133   | 0.00     |
| 70 T | 1,2,3-Trichlorobenzene      | 1.026 | 1.135 | -10.6 | 127   | 0.00     |

(#) = Out of Range

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