

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN040319\  
 Data File : VN054914.D  
 Acq On : 3 Apr 2019 9:10  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 04 01:30:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032919W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 30 00:48:18 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.506 | 0.453 | 10.5  | 92    | 0.00     |
| 3 P   | Chloromethane               | 0.699 | 0.613 | 12.3  | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.628 | 0.574 | 8.6#  | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.379 | 0.322 | 15.0  | 91    | 0.00     |
| 6 T   | Chloroethane                | 0.351 | 0.325 | 7.4   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.772 | 0.756 | 2.1   | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 0.249 | 0.241 | 3.2   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.406 | 0.416 | -2.5  | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 0.556 | 0.567 | -2.0  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.035 | 0.032 | 8.6   | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.393 | 0.383 | 2.5#  | 97    | 0.00     |
| 13 T  | Acrolein                    | 0.031 | 0.028 | 9.7   | 91    | 0.00     |
| 14 T  | Allyl chloride              | 0.968 | 0.926 | 4.3   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.195 | 0.189 | 3.1   | 94    | 0.00     |
| 16 T  | Acetone                     | 0.161 | 0.199 | -23.6 | 123   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.275 | 1.155 | 9.4   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 0.464 | 0.426 | 8.2   | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.375 | 1.323 | 3.8   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.567 | 0.538 | 5.1   | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.516 | 0.494 | 4.3   | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.915 | 1.909 | 0.3   | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.332 | 1.340 | -0.6  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.021 | 1.019 | 0.2   | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.238 | 0.263 | -10.5 | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.716 | 0.741 | -3.5  | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.583 | 0.574 | 1.5   | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.511 | 0.510 | 0.2   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.165 | 0.153 | 7.3   | 93    | 0.00     |
| 30 C  | Chloroform                  | 0.974 | 0.976 | -0.2# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 1.175 | 0.935 | 20.4  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.807 | 0.814 | -0.9  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.674 | 0.626 | 7.1   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.333 | 0.329 | 1.2   | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.466 | 0.473 | -1.5  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.342 | 0.338 | 1.2   | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.453 | 0.454 | -0.2  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.512 | 0.541 | -5.7  | 98    | 0.00     |
| 40 TM | Benzene                     | 1.333 | 1.404 | -5.3  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.192 | 0.200 | -4.2  | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.476 | 0.496 | -4.2  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.555 | 0.573 | -3.2  | 91    | 0.00     |
| 44 TM | Trichloroethene             | 0.346 | 0.363 | -4.9  | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.380 | 0.398 | -4.7# | 97    | 0.00     |

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|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.214 | 0.220 | -2.8  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.444 | 0.492 | -10.8 | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.301 | 0.291 | 3.3   | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.239 | 1.235 | 0.3   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.312 | 0.329 | -5.4  | 93    | 0.00     |
| 52 CM | Toluene                     | 0.793 | 0.848 | -6.9# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.418 | 0.462 | -10.5 | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.499 | 0.563 | -12.8 | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.295 | 0.303 | -2.7  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.387 | 0.407 | -5.2  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.507 | 0.536 | -5.7  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.148 | 0.170 | -14.9 | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.200 | 0.219 | -9.5  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.299 | 0.331 | -10.7 | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.282 | 0.294 | -4.3  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.412 | 0.417 | -1.2  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.384 | 0.399 | -3.9  | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 0.979 | 1.021 | -4.3  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.366 | 0.396 | -8.2  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.767 | 1.873 | -6.0# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.654 | 0.692 | -5.8  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 0.641 | 0.669 | -4.4  | 98    | 0.00     |
| 70 T  | Styrene                     | 1.025 | 1.133 | -10.5 | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.215 | 0.232 | -7.9  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.087 | 3.933 | 3.8   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 1.273 | 1.183 | 7.1   | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.015 | 0.937 | 7.7   | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.869 | 0.817 | 6.0   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.986 | 0.950 | 3.7   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.492 | 4.465 | 0.6   | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.779 | 2.650 | 4.6   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.353 | 3.274 | 2.4   | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.223 | 0.219 | 1.8   | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.699 | 2.651 | 1.8   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.932 | 2.754 | 6.1   | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.195 | 3.247 | -1.6  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.643 | 3.619 | 0.7   | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.213 | 3.221 | -0.2  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.651 | 1.658 | -0.4  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.620 | 1.593 | 1.7   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.621 | 2.733 | -4.3  | 100   | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.546 | 0.542 | 0.7  | 98    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.667 | 1.615 | 3.1  | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.140 | 0.133 | 5.0  | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.803 | 0.802 | 0.1  | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.542 | 0.509 | 6.1  | 97    | 0.00     |
| 95 T | Naphthalene                 | 1.802 | 1.635 | 9.3  | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.811 | 0.774 | 4.6  | 91    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6