

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN031620\
 Data File : VN060514.D
 Acq On : 16 Mar 2020 11:15
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 17 08:58:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 2 T | Dichlorodifluoromethane | 0.458 | 0.363 | 20.7 | 76 | 0.00 |
| 3 P | Chloromethane | 0.798 | 0.653 | 18.2 | 82 | 0.00 |
| 4 C | Vinyl Chloride | 0.684 | 0.545 | 20.3# | 79 | 0.00 |
| 5 T | Bromomethane | 0.301 | 0.237 | 21.3 | 81 | 0.00 |
| 6 T | Chloroethane | 0.371 | 0.330 | 11.1 | 89 | 0.00 |
| 7 T | Trichlorofluoromethane | 0.875 | 0.765 | 12.6 | 86 | 0.00 |
| 8 T | Diethyl Ether | 0.330 | 0.316 | 4.2 | 93 | 0.00 |
| 9 T | 1,1,2-Trichlorotrifluoroeth | 0.495 | 0.471 | 4.8 | 93 | 0.00 |
| 10 T | Methyl Iodide | 0.452 | 0.349 | 22.8 | 76 | 0.00 |
| 11 T | Tert butyl alcohol | 0.095 | 0.092 | 3.2 | 91 | 0.00 |
| 12 CM | 1,1-Dichloroethene | 0.525 | 0.452 | 13.9# | 88 | 0.00 |
| 13 T | Acrolein | 0.089 | 0.085 | 4.5 | 86 | 0.00 |
| 14 T | Allyl chloride | 0.886 | 0.817 | 7.8 | 88 | 0.00 |
| 15 T | Acrylonitrile | 0.251 | 0.273 | -8.8 | 100 | 0.00 |
| 16 T | Acetone | 0.207 | 0.249 | -20.3 | 116 | 0.00 |
| 17 T | Carbon Disulfide | 1.490 | 1.073 | 28.0# | 79 | 0.00 |
| 18 T | Methyl Acetate | 0.691 | 0.727 | -5.2 | 107 | 0.00 |
| 19 T | Methyl tert-butyl Ether | 1.744 | 1.749 | -0.3 | 97 | 0.00 |
| 20 T | Methylene Chloride | 0.569 | 0.530 | 6.9 | 93 | 0.00 |
| 21 T | trans-1,2-Dichloroethene | 0.595 | 0.487 | 18.2 | 90 | 0.00 |
| 22 T | Diisopropyl ether | 1.794 | 1.927 | -7.4 | 103 | 0.00 |
| 23 T | Vinyl Acetate | 1.426 | 1.514 | -6.2 | 99 | 0.00 |
| 24 P | 1,1-Dichloroethane | 1.016 | 1.020 | -0.4 | 97 | 0.00 |
| 25 T | 2-Butanone | 0.335 | 0.383 | -14.3 | 108 | 0.00 |
| 26 T | 2,2-Dichloropropane | 0.925 | 0.919 | 0.6 | 97 | 0.00 |
| 27 T | cis-1,2-Dichloroethene | 0.660 | 0.603 | 8.6 | 94 | 0.00 |
| 28 T | Bromochloromethane | 0.417 | 0.436 | -4.6 | 108 | 0.00 |
| 29 T | Tetrahydrofuran | 0.233 | 0.243 | -4.3 | 100 | 0.00 |
| 30 C | Chloroform | 1.011 | 1.010 | 0.1# | 97 | 0.00 |
| 31 T | Cyclohexane | 0.942 | 0.846 | 10.2 | 92 | 0.00 |
| 32 T | 1,1,1-Trichloroethane | 0.896 | 0.860 | 4.0 | 93 | 0.00 |
| 33 S | 1,2-Dichloroethane-d4 | 0.642 | 0.625 | 2.6 | 96 | 0.00 |
| 34 I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 35 S | Dibromofluoromethane | 0.232 | 0.293 | -26.3# | 122 | 0.00 |
| 36 T | 1,1-Dichloropropene | 0.477 | 0.443 | 7.1 | 94 | 0.00 |
| 37 T | Ethyl Acetate | 0.451 | 0.475 | -5.3 | 99 | 0.00 |
| 38 T | Carbon Tetrachloride | 0.464 | 0.421 | 9.3 | 88 | 0.00 |
| 39 T | Methylcyclohexane | 0.562 | 0.506 | 10.0 | 90 | 0.00 |
| 40 TM | Benzene | 1.387 | 1.362 | 1.8 | 96 | 0.00 |
| 41 T | Methacrylonitrile | 0.208 | 0.212 | -1.9 | 93 | -0.01 |
| 42 TM | 1,2-Dichloroethane | 0.500 | 0.489 | 2.2 | 94 | 0.00 |
| 43 T | Isopropyl Acetate | 0.790 | 0.836 | -5.8 | 100 | 0.00 |
| 44 TM | Trichloroethene | 0.386 | 0.355 | 8.0 | 92 | 0.00 |
| 45 C | 1,2-Dichloropropane | 0.363 | 0.388 | -6.9# | 102 | 0.00 |

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 LabSampleId :
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Quant Time: Mar 17 08:58:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T | Dibromomethane | 0.235 | 0.231 | 1.7 | 94 | 0.00 |
| 47 T | Bromodichloromethane | 0.479 | 0.497 | -3.8 | 98 | 0.00 |
| 48 T | Methyl methacrylate | 0.360 | 0.369 | -2.5 | 98 | 0.00 |
| 49 T | 1,4-Dioxane | 0.005 | 0.005 | 0.0 | 96 | 0.00 |
| 50 S | Toluene-d8 | 1.175 | 1.130 | 3.8 | 96 | 0.00 |
| 51 T | 4-Methyl-2-Pentanone | 0.448 | 0.485 | -8.3 | 101 | 0.00 |
| 52 CM | Toluene | 0.871 | 0.841 | 3.4# | 94 | 0.00 |
| 53 T | t-1,3-Dichloropropene | 0.586 | 0.582 | 0.7 | 98 | 0.00 |
| 54 T | cis-1,3-Dichloropropene | 0.608 | 0.618 | -1.6 | 99 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 0.350 | 0.345 | 1.4 | 97 | 0.00 |
| 56 T | Ethyl methacrylate | 0.503 | 0.534 | -6.2 | 97 | 0.00 |
| 57 T | 1,3-Dichloropropane | 0.571 | 0.594 | -4.0 | 99 | 0.00 |
| 58 T | 2-Chloroethyl Vinyl ether | 0.263 | 0.263 | 0.0 | 94 | 0.00 |
| 59 T | 2-Hexanone | 0.329 | 0.356 | -8.2 | 100 | 0.00 |
| 60 T | Dibromochloromethane | 0.356 | 0.366 | -2.8 | 97 | 0.00 |
| 61 T | 1,2-Dibromoethane | 0.342 | 0.341 | 0.3 | 95 | 0.00 |
| 62 S | 4-Bromofluorobenzene | 0.445 | 0.438 | 1.6 | 98 | 0.00 |
| 63 I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 64 T | Tetrachloroethene | 0.444 | 0.376 | 15.3 | 87 | 0.00 |
| 65 PM | Chlorobenzene | 1.010 | 0.970 | 4.0 | 94 | 0.00 |
| 66 T | 1,1,1,2-Tetrachloroethane | 0.373 | 0.371 | 0.5 | 95 | 0.00 |
| 67 C | Ethyl Benzene | 1.839 | 1.797 | 2.3# | 94 | 0.00 |
| 68 T | m/p-Xylenes | 0.694 | 0.665 | 4.2 | 93 | 0.00 |
| 69 T | o-Xylene | 0.661 | 0.645 | 2.4 | 94 | 0.00 |
| 70 T | Styrene | 1.088 | 1.081 | 0.6 | 94 | 0.00 |
| 71 P | Bromoform | 0.269 | 0.284 | -5.6 | 95 | 0.00 |
| 72 I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 73 T | Isopropylbenzene | 3.706 | 3.651 | 1.5 | 94 | 0.00 |
| 74 T | N-amyl acetate | 1.619 | 1.671 | -3.2 | 98 | 0.00 |
| 75 P | 1,1,2,2-Tetrachloroethane | 1.007 | 1.088 | -8.0 | 101 | 0.00 |
| 76 T | 1,2,3-Trichloropropane | 1.097 | 0.988 | 9.9 | 85 | 0.00 |
| 77 T | Bromobenzene | 0.908 | 0.860 | 5.3 | 91 | 0.00 |
| 78 T | n-propylbenzene | 4.344 | 4.311 | 0.8 | 95 | 0.00 |
| 79 T | 2-Chlorotoluene | 2.554 | 2.526 | 1.1 | 96 | 0.00 |
| 80 T | 1,3,5-Trimethylbenzene | 3.120 | 3.056 | 2.1 | 93 | 0.00 |
| 81 T | trans-1,4-Dichloro-2-butene | 0.397 | 0.425 | -7.1 | 97 | 0.00 |
| 82 T | 4-Chlorotoluene | 2.690 | 2.602 | 3.3 | 95 | 0.00 |
| 83 T | tert-Butylbenzene | 2.701 | 2.588 | 4.2 | 91 | 0.00 |
| 84 T | 1,2,4-Trimethylbenzene | 3.149 | 3.061 | 2.8 | 92 | 0.00 |
| 85 T | sec-Butylbenzene | 3.618 | 3.508 | 3.0 | 92 | 0.00 |
| 86 T | p-Isopropyltoluene | 3.348 | 3.137 | 6.3 | 90 | 0.00 |
| 87 T | 1,3-Dichlorobenzene | 1.706 | 1.571 | 7.9 | 91 | 0.00 |
| 88 T | 1,4-Dichlorobenzene | 1.697 | 1.579 | 7.0 | 93 | 0.00 |
| 89 T | n-Butylbenzene | 3.074 | 2.937 | 4.5 | 92 | 0.00 |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane | 0.485 | 0.461 | 4.9 | 88 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.592 | 1.508 | 5.3 | 91 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.228 | 0.215 | 5.7 | 90 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.130 | 0.963 | 14.8 | 88 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.536 | 0.476 | 11.2 | 93 | 0.00 |
| 95 T | Naphthalene | 3.258 | 2.781 | 14.6 | 85 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.062 | 0.918 | 13.6 | 88 | 0.00 |

(#) = Out of Range

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