# Response Factor Report VOC_U

Method Path : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\
Method File : SOMULM080819WMA.M
Title : VOC Analysis
Last Update : Fri Aug 09 14:36:24 2019
Response Via : Initial Calibration

Calibration Files
5 =VU033628.D 10 =VU033629.D 50 =VU033662.D
100 =VU033631.D 200 =VU033632.D

| | | Compound | 5 | 10 | 50 | 100 | 200 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | |
| 2) | T | Dichlorodifluoromet | 0.519 | 0.465 | 0.449 | 0.439 | 0.430 | 0.460 | 7.65 |
| 3) | T | Chloromethane | 0.594 | 0.510 | 0.483 | 0.460 | 0.462 | 0.502 | 11.02 |
| 4) | S | Vinyl Chloride-d3 | 0.581 | 0.557 | 0.565 | 0.562 | 0.557 | 0.564 | 1.73 |
| 5) | T | Vinyl chloride | 0.591 | 0.555 | 0.533 | 0.518 | 0.516 | 0.543 | 5.78 |
| 6) | T | Bromomethane | 0.391 | 0.351 | 0.338 | 0.326 | 0.417 | 0.365 | 10.48 |
| 7) | S | Chloroethane-d5 | 0.493 | 0.482 | 0.482 | 0.467 | 0.466 | 0.478 | 2.40 |
| 8) | T | Chloroethane | 0.383 | 0.353 | 0.327 | 0.319 | 0.310 | 0.338 | 8.77 |
| 9) | T | Trichlorofluorometh | 0.794 | 0.748 | 0.708 | 0.684 | 0.668 | 0.720 | 7.11 |
| 10) | T | 1,1,2-Trichloro-1,2 | 0.415 | 0.383 | 0.361 | 0.350 | 0.342 | 0.370 | 7.95 |
| 11) | S | 1,1-Dichloroethene- | 0.915 | 0.908 | 0.926 | 0.911 | 0.903 | 0.912 | 0.95 |
| 12) | T | 1,1-Dichloroethene | 0.389 | 0.362 | 0.341 | 0.340 | 0.335 | 0.354 | 6.38 |
| 13) | T | Acetone | 0.338 | 0.304 | 0.278 | 0.251 | 0.235 | 0.281 | 14.75 |
| 14) | T | Carbon disulfide | 1.164 | 1.087 | 1.029 | 1.017 | 0.997 | 1.059 | 6.40 |
| 15) | T | Methyl Acetate | 0.472 | 0.468 | 0.467 | 0.446 | 0.440 | 0.458 | 3.19 |
| 16) | T | Methylene chloride | 0.467 | 0.440 | 0.401 | 0.402 | 0.385 | 0.419 | 8.03 |
| 17) | T | trans-1,2-Dichloroe | 0.396 | 0.372 | 0.361 | 0.359 | 0.355 | 0.369 | 4.51 |
| 18) | T | Methyl tert-butyl E | 1.185 | 1.126 | 1.143 | 1.167 | 1.167 | 1.158 | 1.99 |
| 19) | T | 1,1-Dichloroethane | 0.792 | 0.736 | 0.706 | 0.689 | 0.672 | 0.719 | 6.59 |
| 20) | T | cis-1,2-Dichloroeth | 0.417 | 0.423 | 0.411 | 0.412 | 0.411 | 0.415 | 1.25 |
| 21) | S | 2-Butanone-d5 | 0.377 | 0.384 | 0.429 | 0.434 | 0.443 | 0.413 | 7.47 |
| 22) | T | 2-Butanone | 0.373 | 0.337 | 0.356 | 0.352 | 0.347 | 0.353 | 3.70 |
| 23) | T | Bromochloromethane | 0.241 | 0.221 | 0.214 | 0.215 | 0.207 | 0.219 | 5.87 |
| 24) | S | Chloroform-d | 0.927 | 0.947 | 0.935 | 0.934 | 0.934 | 0.935 | 0.78 |
| 25) | T | Chloroform | 0.826 | 0.785 | 0.748 | 0.714 | 0.693 | 0.753 | 7.13 |
| 26) | S | 1,2-Dichloroethane- | 0.617 | 0.603 | 0.612 | 0.591 | 0.593 | 0.603 | 1.91 |
| 27) | T | 1,2-Dichloroethane | 0.637 | 0.602 | 0.570 | 0.565 | 0.546 | 0.584 | 6.14 |
| 28) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | |
| 29) | T | Cyclohexane | 0.583 | 0.526 | 0.587 | 0.595 | 0.598 | 0.578 | 5.10 |
| 30) | T | 1,1,1-Trichloroetha | 0.694 | 0.639 | 0.623 | 0.599 | 0.583 | 0.628 | 6.84 |
| 31) | T | Carbon tetrachlorid | 0.600 | 0.550 | 0.557 | 0.542 | 0.527 | 0.555 | 4.91 |
| 32) | S | Benzene-d6 | 1.794 | 1.815 | 1.949 | 1.887 | 1.879 | 1.865 | 3.31 |
| 33) | T | Benzene | 1.678 | 1.589 | 1.589 | 1.537 | 1.499 | 1.578 | 4.25 |
| 34) | T | Trichloroethene | 0.436 | 0.400 | 0.404 | 0.395 | 0.390 | 0.405 | 4.48 |
| 35) | T | Methylcyclohexane | 0.615 | 0.565 | 0.640 | 0.640 | 0.640 | 0.620 | 5.25 |
| 36) | S | 1,2-Dichloropropane | 0.569 | 0.585 | 0.610 | 0.599 | 0.601 | 0.593 | 2.70 |
| 37) | T | 1,2-Dichloropropane | 0.463 | 0.429 | 0.424 | 0.413 | 0.404 | 0.427 | 5.33 |
| 38) | T | Bromodichloromethan | 0.591 | 0.560 | 0.545 | 0.535 | 0.527 | 0.552 | 4.58 |
| 39) | T | cis-1,3-Dichloropro | 0.615 | 0.548 | 0.670 | 0.680 | 0.662 | 0.635 | 8.64 |
| 40) | T | 4-Methyl-2-pentanon | 0.623 | 0.561 | 0.632 | 0.630 | 0.648 | 0.619 | 5.42 |
| 41) | S | Toluene-d8 | 1.591 | 1.629 | 1.817 | 1.789 | 1.794 | 1.724 | 6.12 |
| 42) | T | Toluene | 1.723 | 1.650 | 1.723 | 1.705 | 1.662 | 1.693 | 2.04 |
| 43) | S | trans-1,3-Dichlorop | 0.262 | 0.263 | 0.306 | 0.304 | 0.315 | 0.290 | 8.74 |
| 44) | T | trans-1,3-Dichlorop | 0.591 | 0.561 | 0.610 | 0.613 | 0.613 | 0.598 | 3.77 |
| 45) | T | 1,1,2-Trichloroetha | 0.440 | 0.409 | 0.406 | 0.392 | 0.385 | 0.407 | 5.25 |
| 46) | T | Tetrachloroethene | 0.343 | 0.322 | 0.327 | 0.327 | 0.322 | 0.328 | 2.62 |
| 47) | S | 2-Hexanone-d5 | 0.237 | 0.239 | 0.311 | 0.332 | 0.365 | 0.297 | 19.13 |
| 48) | T | 2-Hexanone | 0.508 | 0.468 | 0.520 | 0.521 | 0.534 | 0.510 | 5.00 |
| 49) | T | Dibromochloromethan | 0.483 | 0.460 | 0.459 | 0.459 | 0.455 | 0.463 | 2.41 |
| 50) | T | 1,2-Dibromoethane | 0.455 | 0.438 | 0.445 | 0.437 | 0.431 | 0.441 | 2.07 |
| 51) | T | Chlorobenzene | 1.185 | 1.094 | 1.088 | 1.094 | 1.074 | 1.107 | 4.02 |
| 52) | T | Ethylbenzene | 1.799 | 1.693 | 1.843 | 1.880 | 1.877 | 1.819 | 4.26 |

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| | | Compound | 5 | 10 | 50 | 100 | 200 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 53) | T | m,p-Xylene | 0.674 | 0.618 | 0.711 | 0.729 | 0.714 | 0.689 | 6.45 |
| 54) | T | o-xylene | 0.655 | 0.630 | 0.692 | 0.715 | 0.722 | 0.683 | 5.77 |
| 55) | T | Styrene | 1.051 | 1.050 | 1.202 | 1.251 | 1.258 | 1.162 | 8.97 |
| 56) | T | Isopropylbenzene | 1.659 | 1.572 | 1.806 | 1.868 | 1.893 | 1.759 | 7.89 |
| 57) | S | 1,1,2,2-Tetrachloro | 0.912 | 0.870 | 0.924 | 0.938 | 0.993 | 0.927 | 4.82 |
| 58) | T | 1,1,2,2-Tetrachloro | 0.798 | 0.740 | 0.718 | 0.728 | 0.750 | 0.747 | 4.16 |
| 59) | | 1,2,3-Trichloroprop | 0.623 | 0.567 | 0.571 | 0.572 | 0.579 | 0.582 | 4.00 |
| 60) | I | 1,4-Dichlorobenzene-d | ISTD | | | | | | |
| 61) | T | Bromoform | 0.749 | 0.663 | 0.652 | 0.647 | 0.639 | 0.670 | 6.72 |
| 62) | T | 1,3-Dichlorobenzene | 1.807 | 1.692 | 1.630 | 1.654 | 1.614 | 1.679 | 4.60 |
| 63) | T | 1,4-Dichlorobenzene | 1.963 | 1.762 | 1.655 | 1.664 | 1.637 | 1.736 | 7.82 |
| 64) | S | 1,2-Dichlorobenzene | 1.394 | 1.358 | 1.350 | 1.350 | 1.378 | 1.366 | 1.40 |
| 65) | T | 1,2-Dichlorobenzene | 1.821 | 1.695 | 1.674 | 1.668 | 1.658 | 1.703 | 3.93 |
| 66) | T | 1,2-Dibromo-3-chlor | 0.348 | 0.305 | 0.313 | 0.307 | 0.314 | 0.317 | 5.57 |
| 67) | | 1,3,5-Trichlorobenz | 1.320 | 1.227 | 1.247 | 1.256 | 1.297 | 1.270 | 2.98 |
| 68) | T | 1,2,4-trichlorobenz | 0.986 | 0.931 | 1.083 | 1.126 | 1.179 | 1.061 | 9.54 |
| 69) | | Naphthalene | 2.566 | 2.363 | 3.300 | 3.553 | 3.715 | 3.099 | 19.43 |
| 70) | T | 1,2,3-Trichlorobenz | 1.076 | 0.967 | 1.146 | 1.164 | 1.187 | 1.108 | 8.05 |

(#) = Out of Range