# Response Factor Report VOC_U

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\
Method File : SOMULM082218WMA.M
Title : VOC Analysis
Last Update : Thu Aug 23 05:01:33 2018
Response Via : Initial Calibration

Calibration Files
5 =VU026245.D 10 =VU026240.D 50 =VU026241.D
100 =VU026242.D 200 =VU026243.D

| | | Compound | 5 | 10 | 50 | 100 | 200 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | |
| 2) | T | Dichlorodifluoromet | 0.348 | 0.377 | 0.427 | 0.416 | 0.395 | 0.393 | 7.95 |
| 3) | T | Chloromethane | 0.322 | 0.344 | 0.393 | 0.382 | 0.369 | 0.362 | 7.93 |
| 4) | S | Vinyl Chloride-d3 | 0.293 | 0.315 | 0.307 | 0.309 | 0.300 | 0.305 | 2.80 |
| 5) | T | Vinyl chloride | 0.344 | 0.357 | 0.384 | 0.376 | 0.363 | 0.365 | 4.34 |
| 6) | T | Bromomethane | 0.206 | 0.224 | 0.244 | 0.242 | 0.218 | 0.227 | 7.22 |
| 7) | S | Chloroethane-d5 | 0.241 | 0.258 | 0.254 | 0.250 | 0.241 | 0.249 | 3.08 |
| 8) | T | Chloroethane | 0.187 | 0.205 | 0.227 | 0.219 | 0.209 | 0.209 | 7.27 |
| 9) | T | Trichlorofluorometh | 0.466 | 0.507 | 0.553 | 0.536 | 0.520 | 0.517 | 6.40 |
| 10) | T | 1,1,2-Trichloro-1,2 | 0.275 | 0.258 | 0.312 | 0.301 | 0.287 | 0.287 | 7.42 |
| 11) | S | 1,1-Dichloroethene- | 0.593 | 0.595 | 0.618 | 0.603 | 0.588 | 0.599 | 1.93 |
| 12) | T | 1,1-Dichloroethene | 0.237 | 0.254 | 0.283 | 0.276 | 0.266 | 0.263 | 6.87 |
| 13) | T | Acetone | 0.183 | 0.201 | 0.199 | 0.185 | 0.174 | 0.188 | 6.10 |
| 14) | T | Carbon disulfide | 1.057 | 0.941 | 1.045 | 1.015 | 0.991 | 1.010 | 4.58 |
| 15) | T | Methyl Acetate | 0.332 | 0.353 | 0.386 | 0.375 | 0.366 | 0.363 | 5.75 |
| 16) | T | Methylene chloride | 0.332 | 0.349 | 0.373 | 0.365 | 0.352 | 0.354 | 4.36 |
| 17) | T | trans-1,2-Dichloroe | 0.319 | 0.308 | 0.337 | 0.331 | 0.326 | 0.324 | 3.49 |
| 18) | T | Methyl tert-butyl E | 0.815 | 0.884 | 1.067 | 1.054 | 1.038 | 0.972 | 11.79 |
| 19) | T | 1,1-Dichloroethane | 0.507 | 0.579 | 0.653 | 0.618 | 0.597 | 0.591 | 9.20 |
| 20) | T | cis-1,2-Dichloroeth | 0.316 | 0.338 | 0.383 | 0.380 | 0.373 | 0.358 | 8.33 |
| 21) | S | 2-Butanone-d5 | 0.232 | 0.235 | 0.249 | 0.250 | 0.251 | 0.243 | 3.71 |
| 22) | T | 2-Butanone | 0.222 | 0.240 | 0.272 | 0.264 | 0.262 | 0.252 | 8.18 |
| 23) | T | Bromochloromethane | 0.165 | 0.188 | 0.208 | 0.201 | 0.195 | 0.191 | 8.50 |
| 24) | S | Chloroform-d | 0.650 | 0.688 | 0.698 | 0.695 | 0.668 | 0.680 | 2.99 |
| 25) | T | Chloroform | 0.572 | 0.622 | 0.673 | 0.656 | 0.630 | 0.631 | 6.15 |
| 26) | S | 1,2-Dichloroethane- | 0.447 | 0.449 | 0.448 | 0.442 | 0.426 | 0.442 | 2.20 |
| 27) | T | 1,2-Dichloroethane | 0.444 | 0.496 | 0.540 | 0.525 | 0.507 | 0.502 | 7.28 |
| 28) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | |
| 29) | T | Cyclohexane | 0.432 | 0.423 | 0.571 | 0.572 | 0.567 | 0.513 | 15.24 |
| 30) | T | 1,1,1-Trichloroetha | 0.520 | 0.557 | 0.636 | 0.605 | 0.587 | 0.581 | 7.65 |
| 31) | T | Carbon tetrachlorid | 0.511 | 0.522 | 0.590 | 0.563 | 0.544 | 0.546 | 5.82 |
| 32) | S | Benzene-d6 | 1.277 | 1.310 | 1.399 | 1.373 | 1.330 | 1.338 | 3.66 |
| 33) | T | Benzene | 1.209 | 1.271 | 1.505 | 1.445 | 1.385 | 1.363 | 8.96 |
| 34) | T | Trichloroethene | 0.345 | 0.333 | 0.381 | 0.378 | 0.365 | 0.360 | 5.81 |
| 35) | T | Methylcyclohexane | 0.477 | 0.433 | 0.618 | 0.617 | 0.610 | 0.551 | 16.16 |
| 36) | S | 1,2-Dichloropropane | 0.427 | 0.423 | 0.435 | 0.441 | 0.422 | 0.429 | 1.92 |
| 37) | T | 1,2-Dichloropropane | 0.347 | 0.343 | 0.408 | 0.390 | 0.374 | 0.373 | 7.44 |
| 38) | T | Bromodichloromethan | 0.448 | 0.473 | 0.540 | 0.524 | 0.505 | 0.498 | 7.52 |
| 39) | T | cis-1,3-Dichloropro | 0.472 | 0.501 | 0.622 | 0.612 | 0.622 | 0.566 | 12.96 |
| 40) | T | 4-Methyl-2-pentanon | 0.389 | 0.426 | 0.519 | 0.510 | 0.516 | 0.472 | 12.80 |
| 41) | S | Toluene-d8 | 1.196 | 1.199 | 1.351 | 1.347 | 1.300 | 1.279 | 6.00 |
| 42) | T | Toluene | 1.237 | 1.284 | 1.622 | 1.579 | 1.531 | 1.450 | 12.23 |
| 43) | S | trans-1,3-Dichlorop | 0.207 | 0.208 | 0.233 | 0.232 | 0.231 | 0.222 | 6.04 |
| 44) | T | trans-1,3-Dichlorop | 0.448 | 0.474 | 0.599 | 0.604 | 0.598 | 0.544 | 14.11 |
| 45) | T | 1,1,2-Trichloroetha | 0.307 | 0.335 | 0.387 | 0.371 | 0.360 | 0.352 | 8.93 |
| 46) | T | Tetrachloroethene | 0.302 | 0.278 | 0.326 | 0.326 | 0.319 | 0.310 | 6.65 |
| 47) | S | 2-Hexanone-d5 | 0.150 | 0.162 | 0.196 | 0.200 | 0.210 | 0.184 | 14.18 |
| 48) | T | 2-Hexanone | 0.338 | 0.325 | 0.420 | 0.405 | 0.411 | 0.380 | 11.73 |
| 49) | T | Dibromochloromethan | 0.373 | 0.394 | 0.474 | 0.465 | 0.457 | 0.433 | 10.62 |
| 50) | T | 1,2-Dibromoethane | 0.341 | 0.368 | 0.421 | 0.408 | 0.404 | 0.388 | 8.55 |
| 51) | T | Chlorobenzene | 0.927 | 0.906 | 1.063 | 1.039 | 1.025 | 0.992 | 7.13 |
| 52) | T | Ethylbenzene | 1.322 | 1.324 | 1.758 | 1.748 | 1.748 | 1.580 | 14.87 |

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| | | Compound | 5 | 10 | 50 | 100 | 200 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 53) | T | m,p-Xylene | 0.500 | 0.491 | 0.693 | 0.688 | 0.680 | 0.611 | 17.20 |
| 54) | T | o-xylene | 0.458 | 0.502 | 0.671 | 0.677 | 0.669 | 0.596 | 17.90 |
| 55) | T | Styrene | 0.774 | 0.812 | 1.162 | 1.171 | 1.165 | 1.017 | 20.14 |
| 56) | T | Isopropylbenzene | 1.193 | 1.264 | 1.729 | 1.771 | 1.769 | 1.545 | 18.83 |
| 57) | S | 1,1,2,2-Tetrachloro | 0.614 | 0.619 | 0.647 | 0.647 | 0.651 | 0.636 | 2.78 |
| 58) | T | 1,1,2,2-Tetrachloro | 0.519 | 0.555 | 0.648 | 0.625 | 0.631 | 0.596 | 9.36 |
| 59) | | 1,2,3-Trichloroprop | 0.411 | 0.427 | 0.504 | 0.485 | 0.495 | 0.464 | 9.10 |
| 60) | I | 1,4-Dichlorobenzene-d | ---------- | ISTD | ---------- | | | | |
| 61) | T | Bromoform | 0.551 | 0.604 | 0.679 | 0.631 | 0.632 | 0.619 | 7.58 |
| 62) | T | 1,3-Dichlorobenzene | 1.445 | 1.313 | 1.590 | 1.516 | 1.505 | 1.474 | 7.04 |
| 63) | T | 1,4-Dichlorobenzene | 1.593 | 1.442 | 1.636 | 1.561 | 1.556 | 1.557 | 4.64 |
| 64) | S | 1,2-Dichlorobenzene | 1.179 | 1.032 | 1.063 | 1.023 | 1.007 | 1.061 | 6.52 |
| 65) | T | 1,2-Dichlorobenzene | 1.456 | 1.506 | 1.682 | 1.577 | 1.529 | 1.550 | 5.52 |
| 66) | T | 1,2-Dibromo-3-chlor | 0.237 | 0.262 | 0.281 | 0.262 | 0.252 | 0.259 | 6.20 |
| 67) | | 1,3,5-Trichlorobenz | 1.144 | 0.991 | 1.242 | 1.207 | 1.201 | 1.157 | 8.57 |
| 68) | T | 1,2,4-trichlorobenz | 1.003 | 0.796 | 1.080 | 1.082 | 1.089 | 1.010 | 12.33 |
| 69) | | Naphthalene | 2.339 | 2.346 | 3.467 | 3.460 | 3.431 | 3.009 | 20.22 |
| 70) | T | 1,2,3-Trichlorobenz | 1.020 | 0.930 | 1.172 | 1.142 | 1.115 | 1.076 | 9.23 |

(#) = Out of Range