

Head Ant5:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|------------------|-------------------|---------------|--------------------------------|------------------------|------------------------------|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 Ant5 | 2 WiFi 2.4G Ant1(chian0) | 3 WiFi 2.4G MIMO | 4 WiFi 5G Ant7(chian1) | 5 WiFi 5G MIMO | 6 BT | | | | | | | | | |
| GSM1900 | Left Touch | 0.313 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.646 | 0.739 | 0.819 | 0.910 | 0.488 | 0.681 | 0.772 | 0.994 | 1.085 |
| | Left Tilt | 0.142 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.218 | 0.364 | 0.571 | 0.736 | 0.189 | 0.476 | 0.641 | 0.618 | 0.783 |
| | Right Touch | 0.843 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.973 | 0.982 | 1.062 | 1.127 | 0.919 | 0.295 | 0.360 | 1.138 | 1.203 |
| | Right Tilt | 0.203 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.225 | 0.372 | 0.383 | 0.488 | 0.223 | 0.200 | 0.305 | 0.403 | 0.508 |
| WCDMA Band II | Left Touch | 0.259 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.592 | 0.685 | 0.765 | 0.856 | 0.434 | 0.681 | 0.772 | 0.940 | 1.031 |
| | Left Tilt | 0.113 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.189 | 0.335 | 0.542 | 0.707 | 0.160 | 0.476 | 0.641 | 0.589 | 0.754 |
| | Right Touch | 0.792 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.922 | 0.931 | 1.011 | 1.076 | 0.868 | 0.295 | 0.360 | 1.087 | 1.152 |
| | Right Tilt | 0.216 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.238 | 0.385 | 0.396 | 0.501 | 0.236 | 0.200 | 0.305 | 0.416 | 0.521 |
| WCDMA Band IV | Left Touch | 0.225 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.558 | 0.651 | 0.731 | 0.822 | 0.400 | 0.681 | 0.772 | 0.906 | 0.997 |
| | Left Tilt | 0.123 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.199 | 0.345 | 0.552 | 0.717 | 0.170 | 0.476 | 0.641 | 0.599 | 0.764 |
| | Right Touch | 0.907 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 1.037 | 1.046 | 1.126 | 1.191 | 0.983 | 0.295 | 0.360 | 1.202 | 1.267 |
| | Right Tilt | 0.168 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.190 | 0.337 | 0.348 | 0.453 | 0.188 | 0.200 | 0.305 | 0.368 | 0.473 |
| LTE Band 2 | Left Touch | 0.336 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.669 | 0.762 | 0.842 | 0.933 | 0.511 | 0.681 | 0.772 | 1.017 | 1.108 |
| | Left Tilt | 0.104 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.180 | 0.326 | 0.533 | 0.698 | 0.151 | 0.476 | 0.641 | 0.580 | 0.745 |
| | Right Touch | 0.790 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.920 | 0.929 | 1.009 | 1.074 | 0.866 | 0.295 | 0.360 | 1.085 | 1.150 |
| | Right Tilt | 0.131 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.153 | 0.300 | 0.311 | 0.416 | 0.151 | 0.200 | 0.305 | 0.331 | 0.436 |
| LTE Band 4 | Left Touch | 0.281 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.614 | 0.707 | 0.787 | 0.878 | 0.456 | 0.681 | 0.772 | 0.962 | 1.053 |
| | Left Tilt | 0.087 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.163 | 0.309 | 0.516 | 0.681 | 0.134 | 0.476 | 0.641 | 0.563 | 0.728 |
| | Right Touch | 0.638 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.768 | 0.777 | 0.857 | 0.922 | 0.714 | 0.295 | 0.360 | 0.933 | 0.998 |
| | Right Tilt | 0.122 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.144 | 0.291 | 0.302 | 0.407 | 0.142 | 0.200 | 0.305 | 0.322 | 0.427 |
| LTE Band 7 | Left Touch | 0.169 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.502 | 0.595 | 0.675 | 0.766 | 0.344 | 0.681 | 0.772 | 0.850 | 0.941 |
| | Left Tilt | 0.053 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.129 | 0.275 | 0.482 | 0.647 | 0.100 | 0.476 | 0.641 | 0.529 | 0.694 |
| | Right Touch | 0.512 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.642 | 0.651 | 0.731 | 0.796 | 0.588 | 0.295 | 0.360 | 0.807 | 0.872 |
| | Right Tilt | 0.104 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.126 | 0.273 | 0.284 | 0.389 | 0.124 | 0.200 | 0.305 | 0.304 | 0.409 |
| LTE Band 38 | Left Touch | 0.212 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.545 | 0.638 | 0.718 | 0.809 | 0.387 | 0.681 | 0.772 | 0.893 | 0.984 |
| | Left Tilt | 0.073 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.149 | 0.295 | 0.502 | 0.667 | 0.120 | 0.476 | 0.641 | 0.549 | 0.714 |
| | Right Touch | 0.585 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.715 | 0.724 | 0.804 | 0.869 | 0.661 | 0.295 | 0.360 | 0.880 | 0.945 |
| | Right Tilt | 0.128 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.150 | 0.297 | 0.308 | 0.413 | 0.148 | 0.200 | 0.305 | 0.328 | 0.433 |
| LTE Band 41 | Left Touch | 0.179 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.512 | 0.605 | 0.685 | 0.776 | 0.354 | 0.681 | 0.772 | 0.860 | 0.951 |
| | Left Tilt | 0.055 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.131 | 0.277 | 0.484 | 0.649 | 0.102 | 0.476 | 0.641 | 0.531 | 0.696 |
| | Right Touch | 0.510 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.640 | 0.649 | 0.729 | 0.794 | 0.586 | 0.295 | 0.360 | 0.805 | 0.870 |
| | Right Tilt | 0.096 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.118 | 0.265 | 0.276 | 0.381 | 0.116 | 0.200 | 0.305 | 0.296 | 0.401 |

Head Ant10:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|------------------|-------------------|---------------|--------------------------------|------------------------|------------------------------|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 Ant10 | 2 WiFi 2.4G Ant1(chian0) | 3 WiFi 2.4G MIMO | 4 WiFi 5G Ant7(chian1) | 5 WiFi 5G MIMO | 6 BT | | | | | | | | | |
| GSM1900 | Left Touch | 0.098 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.431 | 0.524 | 0.604 | 0.695 | 0.273 | 0.681 | 0.772 | 0.779 | 0.870 |
| | Left Tilt | 0.077 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.153 | 0.299 | 0.506 | 0.671 | 0.124 | 0.476 | 0.641 | 0.553 | 0.718 |
| | Right Touch | 0.099 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.229 | 0.238 | 0.318 | 0.383 | 0.175 | 0.295 | 0.360 | 0.394 | 0.459 |
| | Right Tilt | 0.078 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.100 | 0.247 | 0.258 | 0.363 | 0.098 | 0.200 | 0.305 | 0.278 | 0.383 |
| WCDMA Band II | Left Touch | 0.209 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.542 | 0.635 | 0.715 | 0.806 | 0.384 | 0.681 | 0.772 | 0.890 | 0.981 |
| | Left Tilt | 0.190 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.266 | 0.412 | 0.619 | 0.784 | 0.237 | 0.476 | 0.641 | 0.666 | 0.831 |
| | Right Touch | 0.225 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.355 | 0.364 | 0.444 | 0.509 | 0.301 | 0.295 | 0.360 | 0.520 | 0.585 |
| | Right Tilt | 0.233 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.255 | 0.402 | 0.413 | 0.518 | 0.253 | 0.200 | 0.305 | 0.433 | 0.538 |
| WCDMA Band IV | Left Touch | 0.192 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.525 | 0.618 | 0.698 | 0.789 | 0.367 | 0.681 | 0.772 | 0.873 | 0.964 |
| | Left Tilt | 0.163 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.239 | 0.385 | 0.592 | 0.757 | 0.210 | 0.476 | 0.641 | 0.639 | 0.804 |
| | Right Touch | 0.225 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.355 | 0.364 | 0.444 | 0.509 | 0.301 | 0.295 | 0.360 | 0.520 | 0.585 |
| | Right Tilt | 0.228 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.250 | 0.397 | 0.408 | 0.513 | 0.248 | 0.200 | 0.305 | 0.428 | 0.533 |
| LTE Band 2 | Left Touch | 0.223 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.556 | 0.649 | 0.729 | 0.820 | 0.398 | 0.681 | 0.772 | 0.904 | 0.995 |
| | Left Tilt | 0.187 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.263 | 0.409 | 0.616 | 0.781 | 0.234 | 0.476 | 0.641 | 0.663 | 0.828 |
| | Right Touch | 0.241 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.371 | 0.380 | 0.460 | 0.525 | 0.317 | 0.295 | 0.360 | 0.536 | 0.601 |
| | Right Tilt | 0.177 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.199 | 0.346 | 0.357 | 0.462 | 0.197 | 0.200 | 0.305 | 0.377 | 0.482 |
| LTE Band 4 | Left Touch | 0.201 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.534 | 0.627 | 0.707 | 0.798 | 0.376 | 0.681 | 0.772 | 0.882 | 0.973 |
| | Left Tilt | 0.148 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.224 | 0.370 | 0.577 | 0.742 | 0.195 | 0.476 | 0.641 | 0.624 | 0.789 |
| | Right Touch | 0.202 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.332 | 0.341 | 0.421 | 0.486 | 0.278 | 0.295 | 0.360 | 0.497 | 0.562 |
| | Right Tilt | 0.211 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.233 | 0.380 | 0.391 | 0.496 | 0.231 | 0.200 | 0.305 | 0.411 | 0.516 |
| LTE Band 7 | Left Touch | 0.257 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.590 | 0.683 | 0.763 | 0.854 | 0.432 | 0.681 | 0.772 | 0.938 | 1.029 |
| | Left Tilt | 0.105 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.181 | 0.327 | 0.534 | 0.699 | 0.152 | 0.476 | 0.641 | 0.581 | 0.746 |
| | Right Touch | 0.183 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.313 | 0.322 | 0.402 | 0.467 | 0.259 | 0.295 | 0.360 | 0.478 | 0.543 |
| | Right Tilt | 0.068 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.090 | 0.237 | 0.248 | 0.353 | 0.088 | 0.200 | 0.305 | 0.268 | 0.373 |
| LTE Band 38 | Left Touch | 0.156 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.489 | 0.582 | 0.662 | 0.753 | 0.331 | 0.681 | 0.772 | 0.837 | 0.928 |
| | Left Tilt | 0.061 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.137 | 0.283 | 0.490 | 0.655 | 0.108 | 0.476 | 0.641 | 0.537 | 0.702 |
| | Right Touch | 0.101 | 0.130 | 0.139 | 0.219 | 0.284 | 0.076 | 0.231 | 0.240 | 0.320 | 0.385 | 0.177 | 0.295 | 0.360 | 0.396 | 0.461 |
| | Right Tilt | 0.043 | 0.022 | 0.169 | 0.180 | 0.285 | 0.020 | 0.065 | 0.212 | 0.223 | 0.328 | 0.063 | 0.200 | 0.305 | 0.243 | 0.348 |
| LTE Band 41 | Left Touch | 0.200 | 0.333 | 0.426 | 0.506 | 0.597 | 0.175 | 0.533 | 0.626 | 0.706 | 0.797 | 0.375 | 0.681 | 0.772 | 0.881 | 0.972 |
| | Left Tilt | 0.060 | 0.076 | 0.222 | 0.429 | 0.594 | 0.047 | 0.136 | 0.282 | 0.489 | 0.654 | 0.107 | 0.476 | 0.641 | 0.536 | |



Body-worn Ant1:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|---------|-------------------|---------------|--------------------------------|------------------------|------------------------------|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 Ant1 | 2 WiFi 2.4G Ant1(chian0) | 3 WiFi 2.4G MIMO | 4 WiFi 5G Ant7(chian1) | 5 WiFi 5G MIMO | 6 BT | | | | | | | | | |
| GSM850 | Front | 0.178 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.284 | 0.364 | 0.421 | 0.576 | 0.197 | 0.262 | 0.417 | 0.440 | 0.595 |
| | Back | 0.257 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.425 | 0.488 | 0.994 | 1.000 | 0.277 | 0.757 | 0.763 | 1.014 | 1.020 |
| WCDMA | Front | 0.212 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.318 | 0.398 | 0.455 | 0.610 | 0.231 | 0.262 | 0.417 | 0.474 | 0.629 |
| Band V | Back | 0.292 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.460 | 0.523 | 1.029 | 1.035 | 0.312 | 0.757 | 0.763 | 1.049 | 1.055 |
| LTE | Front | 0.135 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.241 | 0.321 | 0.378 | 0.533 | 0.154 | 0.262 | 0.417 | 0.397 | 0.552 |
| | Band 5 | Back | 0.208 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.376 | 0.439 | 0.945 | 0.951 | 0.228 | 0.757 | 0.763 | 0.965 |
| LTE | Front | 0.136 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.242 | 0.322 | 0.379 | 0.534 | 0.155 | 0.262 | 0.417 | 0.398 | 0.553 |
| Band 26 | Back | 0.222 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.390 | 0.453 | 0.959 | 0.965 | 0.242 | 0.757 | 0.763 | 0.979 | 0.985 |

Body-worn Ant4:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|---------|-------------------|---------------|--------------------------------|------------------------|------------------------------|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 Ant4 | 2 WiFi 2.4G Ant1(chian0) | 3 WiFi 2.4G MIMO | 4 WiFi 5G Ant7(chian1) | 5 WiFi 5G MIMO | 6 BT | | | | | | | | | |
| GSM850 | Front | 0.191 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.297 | 0.377 | 0.434 | 0.589 | 0.210 | 0.262 | 0.417 | 0.453 | 0.608 |
| | Back | 0.288 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.456 | 0.519 | 1.025 | 1.031 | 0.308 | 0.757 | 0.763 | 1.045 | 1.051 |
| WCDMA | Front | 0.171 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.277 | 0.357 | 0.414 | 0.569 | 0.190 | 0.262 | 0.417 | 0.433 | 0.588 |
| Band V | Back | 0.276 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.444 | 0.507 | 1.013 | 1.019 | 0.296 | 0.757 | 0.763 | 1.033 | 1.039 |
| LTE | Front | 0.160 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.266 | 0.346 | 0.403 | 0.558 | 0.179 | 0.262 | 0.417 | 0.422 | 0.577 |
| | Band 5 | Back | 0.269 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.437 | 0.500 | 1.006 | 1.012 | 0.289 | 0.757 | 0.763 | 1.026 |
| LTE | Front | 0.164 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.270 | 0.350 | 0.407 | 0.562 | 0.183 | 0.262 | 0.417 | 0.426 | 0.581 |
| Band 26 | Back | 0.237 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.405 | 0.468 | 0.974 | 0.980 | 0.257 | 0.757 | 0.763 | 0.994 | 1.000 |

Body-worn Ant5:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|---------|-------------------|---------------|--------------------------------|------------------------|------------------------------|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 Ant5 | 2 WiFi 2.4G Ant1(chian0) | 3 WiFi 2.4G MIMO | 4 WiFi 5G Ant7(chian1) | 5 WiFi 5G MIMO | 6 BT | | | | | | | | | |
| GSM1900 | Front | 0.118 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.224 | 0.304 | 0.361 | 0.516 | 0.137 | 0.262 | 0.417 | 0.380 | 0.535 |
| | Back | 0.180 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.348 | 0.411 | 0.917 | 0.923 | 0.200 | 0.757 | 0.763 | 0.937 | 0.943 |
| WCDMA | Front | 0.176 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.282 | 0.362 | 0.419 | 0.574 | 0.195 | 0.262 | 0.417 | 0.438 | 0.593 |
| Band IV | Back | 0.334 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.502 | 0.565 | 1.071 | 1.077 | 0.354 | 0.757 | 0.763 | 1.091 | 1.097 |
| WCDMA | Front | 0.217 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.323 | 0.403 | 0.460 | 0.615 | 0.236 | 0.262 | 0.417 | 0.479 | 0.634 |
| | Band II | Back | 0.303 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.471 | 0.534 | 1.040 | 1.046 | 0.323 | 0.757 | 0.763 | 1.060 |
| LTE | Front | 0.172 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.278 | 0.358 | 0.415 | 0.570 | 0.191 | 0.262 | 0.417 | 0.434 | 0.589 |
| | Band 2 | Back | 0.327 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.495 | 0.558 | 1.064 | 1.070 | 0.347 | 0.757 | 0.763 | 1.084 |
| LTE | Front | 0.163 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.269 | 0.349 | 0.406 | 0.561 | 0.182 | 0.262 | 0.417 | 0.425 | 0.580 |
| | Band 4 | Back | 0.288 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.456 | 0.519 | 1.025 | 1.031 | 0.308 | 0.757 | 0.763 | 1.045 |
| LTE | Front | 0.223 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.329 | 0.409 | 0.466 | 0.621 | 0.242 | 0.262 | 0.417 | 0.485 | 0.640 |
| | Band 7 | Back | 0.284 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.452 | 0.515 | 1.021 | 1.027 | 0.304 | 0.757 | 0.763 | 1.041 |
| LTE | Front | 0.228 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.334 | 0.414 | 0.471 | 0.626 | 0.247 | 0.262 | 0.417 | 0.490 | 0.645 |
| | Band 38 | Back | 0.273 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.441 | 0.504 | 1.010 | 1.016 | 0.293 | 0.757 | 0.763 | 1.030 |
| LTE | Front | 0.181 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.287 | 0.367 | 0.424 | 0.579 | 0.200 | 0.262 | 0.417 | 0.443 | 0.598 |
| | Band 41 | Back | 0.222 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.390 | 0.453 | 0.959 | 0.965 | 0.242 | 0.757 | 0.763 | 0.979 |

Body-worn Ant10:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|---------|-------------------|---------------|--------------------------------|------------------------|------------------------------|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 Ant10 | 2 WiFi 2.4G Ant1(chian0) | 3 WiFi 2.4G MIMO | 4 WiFi 5G Ant7(chian1) | 5 WiFi 5G MIMO | 6 BT | | | | | | | | | |
| GSM1900 | Front | 0.254 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.360 | 0.440 | 0.497 | 0.652 | 0.273 | 0.262 | 0.417 | 0.516 | 0.671 |
| | Back | 0.322 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.490 | 0.553 | 1.059 | 1.065 | 0.342 | 0.757 | 0.763 | 1.079 | 1.085 |
| WCDMA | Front | 0.421 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.527 | 0.607 | 0.664 | 0.819 | 0.440 | 0.262 | 0.417 | 0.683 | 0.838 |
| Band IV | Back | 0.493 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.661 | 0.724 | 1.230 | 1.236 | 0.513 | 0.757 | 0.763 | 1.250 | 1.256 |
| WCDMA | Front | 0.550 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.656 | 0.736 | 0.793 | 0.948 | 0.569 | 0.262 | 0.417 | 0.812 | 0.967 |
| | Band II | Back | 0.657 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.825 | 0.888 | 1.394 | 1.400 | 0.677 | 0.757 | 0.763 | 1.414 |
| LTE | Front | 0.567 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.673 | 0.753 | 0.810 | 0.965 | 0.586 | 0.262 | 0.417 | 0.829 | 0.984 |
| | Band 2 | Back | 0.690 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.858 | 0.921 | 1.427 | 1.433 | 0.710 | 0.757 | 0.763 | 1.447 |
| LTE | Front | 0.410 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.516 | 0.596 | 0.653 | 0.808 | 0.429 | 0.262 | 0.417 | 0.672 | 0.827 |
| | Band 4 | Back | 0.493 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.661 | 0.724 | 1.230 | 1.236 | 0.513 | 0.757 | 0.763 | 1.250 |
| LTE | Front | 0.385 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.491 | 0.571 | 0.628 | 0.783 | 0.404 | 0.262 | 0.417 | 0.647 | 0.802 |
| | Band 7 | Back | 0.545 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.713 | 0.776 | 1.282 | 1.288 | 0.565 | 0.757 | 0.763 | 1.302 |
| LTE | Front | 0.227 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.333 | 0.413 | 0.470 | 0.625 | 0.246 | 0.262 | 0.417 | 0.489 | 0.644 |
| | Band 38 | Back | 0.336 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.504 | 0.567 | 1.073 | 1.079 | 0.356 | 0.757 | 0.763 | 1.093 |
| LTE | Front | 0.246 | 0.106 | 0.186 | 0.243 | 0.398 | 0.019 | 0.352 | 0.432 | 0.489 | 0.644 | 0.265 | 0.262 | 0.417 | 0.508 | 0.663 |
| | Band 41 | Back | 0.362 | 0.168 | 0.231 | 0.737 | 0.743 | 0.020 | 0.530 | 0.593 | 1.099 | 1.105 | 0.382 | 0.757 | 0.763 | 1.119 |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Hotspot Ant1:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|--------------|-------------------|---------------|--------------------------------|------------------------|------------------------------|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 Ant1 | 2 WiFi 2.4G Ant1(chian0) | 3 WiFi 2.4G MIMO | 4 WiFi 5G Ant7(chian1) | 5 WiFi 5G MIMO | 6 BT | | | | | | | | | |
| GSM850 | Front | 0.328 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.543 | 0.649 | 0.723 | 0.975 | 0.369 | 0.436 | 0.688 | 0.764 | 1.016 |
| | Back | 0.450 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.668 | 0.745 | 1.204 | 1.297 | 0.501 | 0.805 | 0.898 | 1.255 | 1.348 |
| | Left | 0.130 | / | / | / | / | / | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 | 0.000 | 0.000 | 0.130 | 0.130 |
| | Right | 0.112 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.465 | 0.917 | 0.506 | 1.108 | 0.187 | 0.469 | 1.071 | 0.581 | 1.183 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | 0.182 | / | / | / | / | / | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 | 0.000 | 0.000 | 0.182 | 0.182 |
| WCDMA Band V | Front | 0.396 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.611 | 0.717 | 0.791 | 1.043 | 0.437 | 0.436 | 0.688 | 0.832 | 1.084 |
| | Back | 0.549 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.767 | 0.844 | 1.303 | 1.396 | 0.600 | 0.805 | 0.898 | 1.354 | 1.447 |
| | Left | 0.107 | / | / | / | / | / | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.000 | 0.000 | 0.107 | 0.107 |
| | Right | 0.134 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.487 | 0.939 | 0.528 | 1.130 | 0.209 | 0.469 | 1.071 | 0.603 | 1.205 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | 0.200 | / | / | / | / | / | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.000 | 0.000 | 0.200 | 0.200 |
| LTE Band 5 | Front | 0.261 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.476 | 0.582 | 0.656 | 0.908 | 0.302 | 0.436 | 0.688 | 0.697 | 0.949 |
| | Back | 0.392 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.610 | 0.687 | 1.146 | 1.239 | 0.443 | 0.805 | 0.898 | 1.197 | 1.290 |
| | Left | 0.091 | / | / | / | / | / | 0.091 | 0.091 | 0.091 | 0.091 | 0.091 | 0.000 | 0.000 | 0.091 | 0.091 |
| | Right | 0.079 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.432 | 0.884 | 0.473 | 1.075 | 0.154 | 0.469 | 1.071 | 0.548 | 1.150 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | 0.145 | / | / | / | / | / | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.000 | 0.000 | 0.145 | 0.145 |
| LTE Band 26 | Front | 0.261 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.476 | 0.582 | 0.656 | 0.908 | 0.302 | 0.436 | 0.688 | 0.697 | 0.949 |
| | Back | 0.336 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.554 | 0.631 | 1.090 | 1.183 | 0.387 | 0.805 | 0.898 | 1.141 | 1.234 |
| | Left | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | Right | 0.092 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.445 | 0.897 | 0.486 | 1.088 | 0.167 | 0.469 | 1.071 | 0.561 | 1.163 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | 0.147 | / | / | / | / | / | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.000 | 0.000 | 0.147 | 0.147 |

Hotspot Ant4:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|--------------|-------------------|---------------|--------------------------------|------------------------|------------------------------|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 Ant4 | 2 WiFi 2.4G Ant1(chian0) | 3 WiFi 2.4G MIMO | 4 WiFi 5G Ant7(chian1) | 5 WiFi 5G MIMO | 6 BT | | | | | | | | | |
| GSM850 | Front | 0.179 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.394 | 0.500 | 0.574 | 0.826 | 0.220 | 0.436 | 0.688 | 0.615 | 0.867 |
| | Back | 0.193 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.411 | 0.488 | 0.947 | 1.040 | 0.244 | 0.805 | 0.898 | 0.998 | 1.091 |
| | Left | 0.095 | / | / | / | / | / | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.000 | 0.000 | 0.095 | 0.095 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | 0.228 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.256 | 0.474 | 0.679 | 0.746 | 0.237 | 0.460 | 0.527 | 0.688 | 0.755 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WCDMA Band V | Front | 0.276 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.491 | 0.597 | 0.671 | 0.923 | 0.317 | 0.436 | 0.688 | 0.712 | 0.964 |
| | Back | 0.279 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.497 | 0.574 | 1.033 | 1.126 | 0.330 | 0.805 | 0.898 | 1.084 | 1.177 |
| | Left | 0.162 | / | / | / | / | / | 0.162 | 0.162 | 0.162 | 0.162 | 0.162 | 0.000 | 0.000 | 0.162 | 0.162 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | 0.370 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.398 | 0.616 | 0.821 | 0.888 | 0.379 | 0.460 | 0.527 | 0.830 | 0.897 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LTE Band 5 | Front | 0.228 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.443 | 0.549 | 0.623 | 0.875 | 0.269 | 0.436 | 0.688 | 0.664 | 0.916 |
| | Back | 0.232 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.450 | 0.527 | 0.986 | 1.079 | 0.283 | 0.805 | 0.898 | 1.037 | 1.130 |
| | Left | 0.123 | / | / | / | / | / | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.000 | 0.000 | 0.123 | 0.123 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | 0.323 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.351 | 0.569 | 0.774 | 0.841 | 0.332 | 0.460 | 0.527 | 0.783 | 0.850 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LTE Band 26 | Front | 0.209 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.424 | 0.530 | 0.604 | 0.856 | 0.250 | 0.436 | 0.688 | 0.645 | 0.897 |
| | Back | 0.476 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.694 | 0.771 | 1.230 | 1.323 | 0.527 | 0.805 | 0.898 | 1.281 | 1.374 |
| | Left | 0.147 | / | / | / | / | / | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.000 | 0.000 | 0.147 | 0.147 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | 0.232 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.260 | 0.478 | 0.683 | 0.750 | 0.241 | 0.460 | 0.527 | 0.692 | 0.759 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Hotspot Ant5:

| Band | Exposure position | SARmax (W/kg) | | | | | | Summed SAR (1+2) | Summed SAR (1+3) | Summed SAR (1+4) | Summed SAR (1+5) | Summed SAR (1+6) | Summed SAR (4+6) | Summed SAR (5+6) | Summed SAR (1+4+6) | Summed SAR (1+5+6) |
|---------------|-------------------|---------------|------------------------|----------------|----------------------|--------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | |
| | | Ant5 | WiFi 2.4G Ant1(chian0) | WiFi 2.4G MIMO | WiFi 5G Ant7(chian1) | WiFi 5G MIMO | BT | | | | | | | | | |
| GSM1900 | Front | 0.118 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.333 | 0.439 | 0.513 | 0.765 | 0.159 | 0.436 | 0.688 | 0.554 | 0.806 |
| | Back | 0.093 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.311 | 0.388 | 0.847 | 0.940 | 0.144 | 0.805 | 0.898 | 0.898 | 0.991 |
| | Left | 0.353 | / | / | / | / | / | 0.353 | 0.353 | 0.353 | 0.353 | 0.353 | 0.000 | 0.000 | 0.353 | 0.353 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WCDMA Band II | Front | 0.102 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.317 | 0.423 | 0.497 | 0.749 | 0.143 | 0.436 | 0.688 | 0.538 | 0.790 |
| | Back | 0.096 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.314 | 0.391 | 0.850 | 0.943 | 0.147 | 0.805 | 0.898 | 0.901 | 0.994 |
| | Left | 0.258 | / | / | / | / | / | 0.258 | 0.258 | 0.258 | 0.258 | 0.258 | 0.000 | 0.000 | 0.258 | 0.258 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WCDMA Band IV | Front | 0.109 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.324 | 0.430 | 0.504 | 0.756 | 0.150 | 0.436 | 0.688 | 0.545 | 0.797 |
| | Back | 0.109 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.327 | 0.404 | 0.863 | 0.956 | 0.160 | 0.805 | 0.898 | 0.914 | 1.007 |
| | Left | 0.260 | / | / | / | / | / | 0.260 | 0.260 | 0.260 | 0.260 | 0.260 | 0.000 | 0.000 | 0.260 | 0.260 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LTE Band 2 | Front | 0.103 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.318 | 0.424 | 0.498 | 0.750 | 0.144 | 0.436 | 0.688 | 0.539 | 0.791 |
| | Back | 0.084 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.302 | 0.379 | 0.838 | 0.931 | 0.135 | 0.805 | 0.898 | 0.889 | 0.982 |
| | Left | 0.265 | / | / | / | / | / | 0.265 | 0.265 | 0.265 | 0.265 | 0.265 | 0.000 | 0.000 | 0.265 | 0.265 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LTE Band 4 | Front | 0.076 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.291 | 0.397 | 0.471 | 0.723 | 0.117 | 0.436 | 0.688 | 0.512 | 0.764 |
| | Back | 0.093 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.311 | 0.388 | 0.847 | 0.940 | 0.144 | 0.805 | 0.898 | 0.898 | 0.991 |
| | Left | 0.186 | / | / | / | / | / | 0.186 | 0.186 | 0.186 | 0.186 | 0.186 | 0.000 | 0.000 | 0.186 | 0.186 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LTE Band 7 | Front | 0.088 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.303 | 0.409 | 0.483 | 0.735 | 0.129 | 0.436 | 0.688 | 0.524 | 0.776 |
| | Back | 0.082 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.300 | 0.377 | 0.836 | 0.929 | 0.133 | 0.805 | 0.898 | 0.887 | 0.980 |
| | Left | 0.121 | / | / | / | / | / | 0.121 | 0.121 | 0.121 | 0.121 | 0.121 | 0.000 | 0.000 | 0.121 | 0.121 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LTE Band 38 | Front | 0.123 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.338 | 0.444 | 0.518 | 0.770 | 0.164 | 0.436 | 0.688 | 0.559 | 0.811 |
| | Back | 0.129 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.347 | 0.424 | 0.883 | 0.976 | 0.180 | 0.805 | 0.898 | 0.934 | 1.027 |
| | Left | 0.186 | / | / | / | / | / | 0.186 | 0.186 | 0.186 | 0.186 | 0.186 | 0.000 | 0.000 | 0.186 | 0.186 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LTE Band 41 | Front | 0.095 | 0.215 | 0.321 | 0.395 | 0.647 | 0.041 | 0.310 | 0.416 | 0.490 | 0.742 | 0.136 | 0.436 | 0.688 | 0.531 | 0.783 |
| | Back | 0.087 | 0.218 | 0.295 | 0.754 | 0.847 | 0.051 | 0.305 | 0.382 | 0.841 | 0.934 | 0.138 | 0.805 | 0.898 | 0.892 | 0.985 |
| | Left | 0.158 | / | / | / | / | / | 0.158 | 0.158 | 0.158 | 0.158 | 0.158 | 0.000 | 0.000 | 0.158 | 0.158 |
| | Right | / | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.353 | 0.805 | 0.394 | 0.996 | 0.075 | 0.469 | 1.071 | 0.469 | 1.071 |
| | Top | / | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.028 | 0.246 | 0.451 | 0.518 | 0.009 | 0.460 | 0.527 | 0.460 | 0.527 |
| | Bottom | / | / | / | / | / | / | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



9 Equipment list

| Test Platform | | SPEAG DASY5 Professional | | | | |
|--|------------------------------------|---|---------------|------------------|-------------------------|--|
| Description | | SAR Test System (Frequency range 300MHz-6GHz) | | | | |
| Software Reference | | DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331) | | | | |
| Hardware Reference | | | | | | |
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Due date of calibration | |
| <input checked="" type="checkbox"/> Twin Phantom | SPEAG | SAM 1 | 1640 | NCR | NCR | |
| <input checked="" type="checkbox"/> Twin Phantom | SPEAG | SAM 3 | 1912 | NCR | NCR | |
| <input checked="" type="checkbox"/> Twin Phantom | SPEAG | SAM 7 | 1027 | NCR | NCR | |
| <input checked="" type="checkbox"/> Twin Phantom | SPEAG | SAM 8 | 1063 | NCR | NCR | |
| <input checked="" type="checkbox"/> DAE | SPEAG | DAE4 | 1267 | 2019-12-17 | 2020-12-16 | |
| <input checked="" type="checkbox"/> DAE | SPEAG | DAE4 | 1428 | 2020-03-03 | 2021-03-02 | |
| <input checked="" type="checkbox"/> DAE | SPEAG | DAE4 | 896 | 2019-09-18 | 2020-09-17 | |
| <input checked="" type="checkbox"/> E-Field Probe | SPEAG | EX3DV4 | 3923 | 2019-10-22 | 2020-10-21 | |
| <input checked="" type="checkbox"/> E-Field Probe | SPEAG | EX3DV4 | 3982 | 2019-09-11 | 2020-09-10 | |
| <input checked="" type="checkbox"/> E-Field Probe | SPEAG | EX3DV4 | 3793 | 2020-05-09 | 2021-05-08 | |
| <input checked="" type="checkbox"/> Validation Kits | SPEAG | D835V2 | 4d105 | 2019-12-17 | 2022-12-16 | |
| <input checked="" type="checkbox"/> Validation Kits | SPEAG | D1750V2 | 1149 | 2019-05-21 | 2022-05-20 | |
| <input checked="" type="checkbox"/> Validation Kits | SPEAG | D1900V2 | 5d028 | 2019-12-17 | 2022-12-16 | |
| <input checked="" type="checkbox"/> Validation Kits | SPEAG | D2450V2 | 733 | 2019-12-17 | 2022-12-16 | |
| <input checked="" type="checkbox"/> Validation Kits | SPEAG | D2600V2 | 1125 | 2019-05-20 | 2022-05-19 | |
| <input checked="" type="checkbox"/> Validation Kits | SPEAG | D5GHzV2 | 1165 | 2019-12-20 | 2022-12-19 | |
| <input checked="" type="checkbox"/> Agilent Network Analyzer | Agilent | E5071C | MY46523591 | 2020-04-16 | 2021-04-15 | |
| <input checked="" type="checkbox"/> Dielectric Probe Kit | Agilent | 85070E | US01440210 | NCR | NCR | |
| <input checked="" type="checkbox"/> Universal Radio Communication Tester | R&S | CMW500 | 111637 | 2020-04-16 | 2021-04-15 | |
| <input checked="" type="checkbox"/> Radio Communication Analyzer | Anritsu | MT8821C | 6201502984 | 2019-06-25 | 2020-06-24 | |
| <input checked="" type="checkbox"/> RF Bi-Directional Coupler | Agilent | 86205-60001 | MY31400031 | NCR | NCR | |
| <input checked="" type="checkbox"/> Signal Generator | Agilent | N5171B | MY53050736 | 2020-04-15 | 2021-04-14 | |
| <input checked="" type="checkbox"/> Preamplifier | Mini-Circuits | ZHL-42W | 15542 | NCR | NCR | |
| <input checked="" type="checkbox"/> Preamplifier | Compliance Directions Systems Inc. | AMP28-3W | 073501433 | NCR | NCR | |
| <input checked="" type="checkbox"/> Power Meter | Agilent | E4416A | GB41292095 | 2020-04-15 | 2021-04-14 | |
| <input checked="" type="checkbox"/> Power Sensor | Agilent | 8481H | MY41091234 | 2020-04-15 | 2021-04-14 | |
| <input checked="" type="checkbox"/> Power Sensor | R&S | NRP-Z92 | 100025 | 2020-04-16 | 2021-04-15 | |
| <input checked="" type="checkbox"/> Attenuator | SHX | TS2-3dB | 30704 | NCR | NCR | |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

| | | | | | | |
|-------------------------------------|------------------------------------|---------------|-------------|-------|------------|------------|
| <input checked="" type="checkbox"/> | Coaxial low pass filter | Mini-Circuits | VLF-2500(+) | NA | NCR | NCR |
| <input checked="" type="checkbox"/> | Coaxial low pass filter | Microlab Fxr | LA-F13 | NA | NCR | NCR |
| <input checked="" type="checkbox"/> | 50 Ω coaxial load | Mini-Circuits | KARN-50+ | 00850 | NCR | NCR |
| <input checked="" type="checkbox"/> | DC POWER SUPPLY | SAKO | SK1730SL5A | NA | NCR | NCR |
| <input checked="" type="checkbox"/> | Speed reading thermometer | MingGao | T809 | NA | 2020-04-21 | 2021-04-20 |
| <input checked="" type="checkbox"/> | Humidity and Temperature Indicator | KIMTOKA | KIMTOKA | NA | 2020-04-21 | 2021-04-20 |

Note: All the equipments are within the valid period when the tests are performed.

10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

---END---



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 f (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Appendix A

Detailed System Check Results

| |
|--|
| 1. System Performance Check |
| System Performance Check 835 MHz Head |
| System Performance Check 1750 MHz Head |
| System Performance Check 1900 MHz Head |
| System Performance Check 2450 MHz Head |
| System Performance Check 2600 MHz Head |
| System Performance Check 5250 MHz Head |
| System Performance Check 5600 MHz Head |
| System Performance Check 5750 MHz Head |

Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 835$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 41.776$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=15mm, Pin=250mW/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.15 W/kg

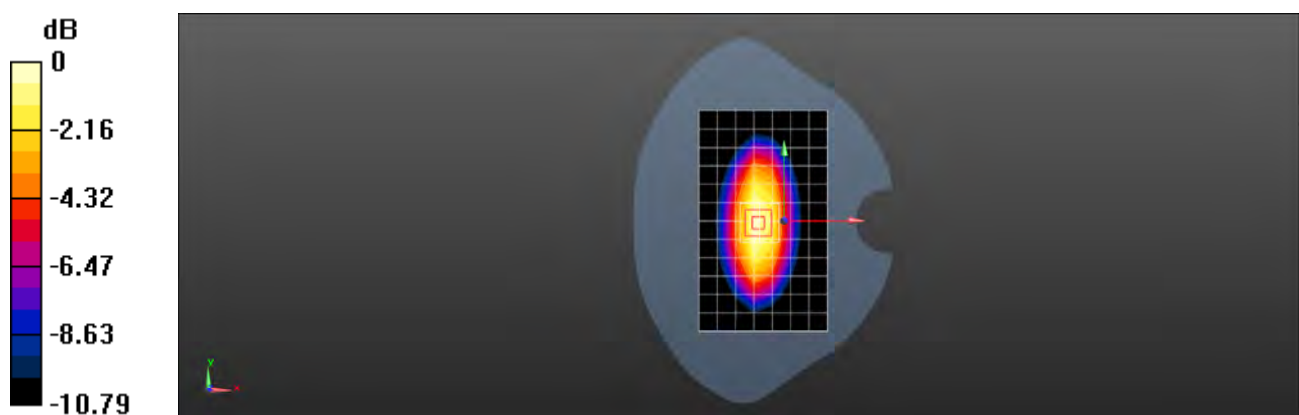
Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.74 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.71 W/kg

Maximum value of SAR (measured) = 3.37 W/kg



0 dB = 3.37 W/kg = 5.28 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 835$ MHz; $\sigma = 0.944$ S/m; $\epsilon_r = 39.988$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=15mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.26 W/kg

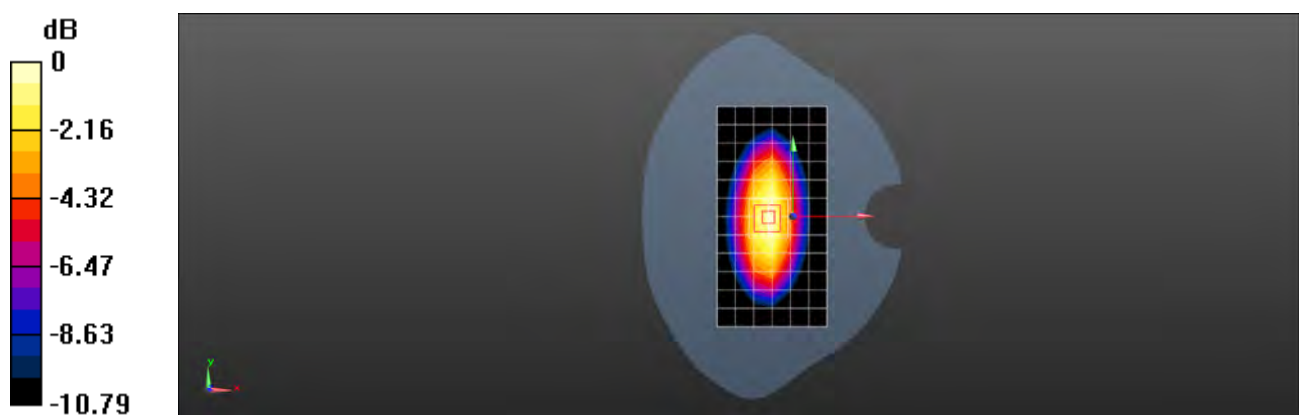
Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.41 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 4.08 W/kg

SAR(1 g) = 2.63 W/kg; SAR(10 g) = 1.72 W/kg

Maximum value of SAR (measured) = 3.39 W/kg



0 dB = 3.39 W/kg = 5.30 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1750 MHz Head

DUT: D1750V2; Type: D1750V2; Serial: 1149

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.309$ S/m; $\epsilon_r = 40.271$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.3 W/kg

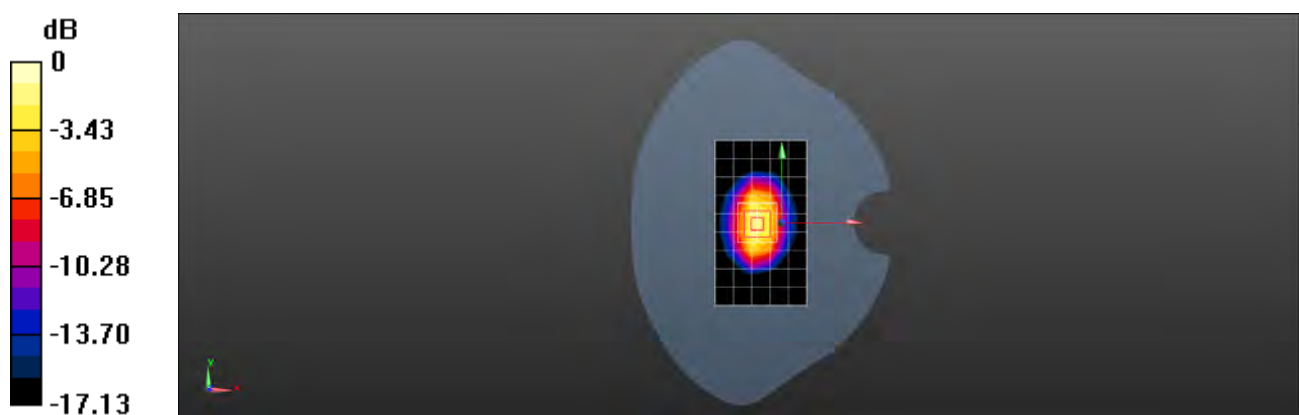
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.03 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.96 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.64 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1900 MHz Head

DUT: D1900V2; Type: D1900V2; Serial: 5d028

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.173$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 10.7 W/kg

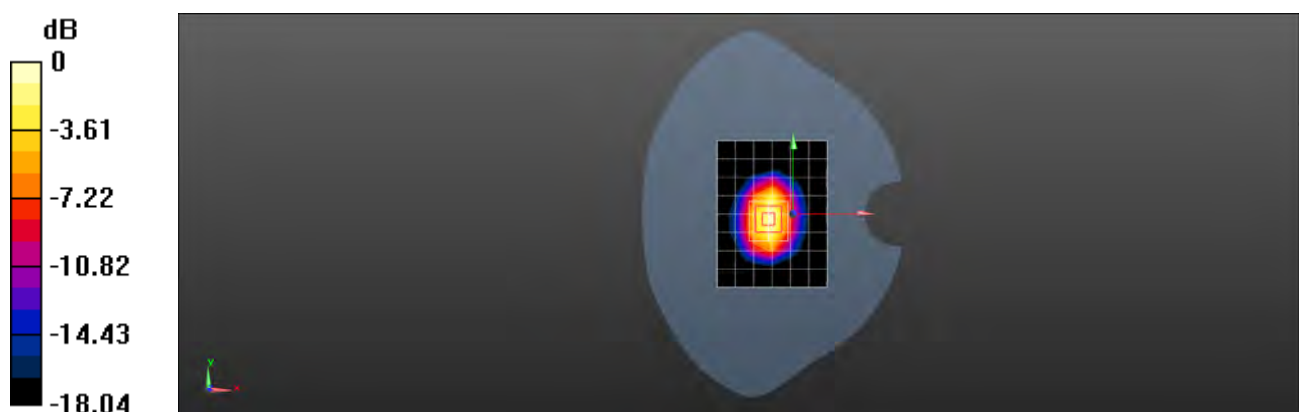
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.67 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.27 W/kg

Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 11.4 W/kg = 10.57 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Head

DUT: D2450V2; Type: D2450V2; Serial: 733

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.803$ S/m; $\epsilon_r = 39.409$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 21.3 W/kg

Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.88 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 27.0 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.11 W/kg

Maximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: D2600V2; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.973$ S/m; $\epsilon_r = 38.869$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (9x15x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 23.8 W/kg

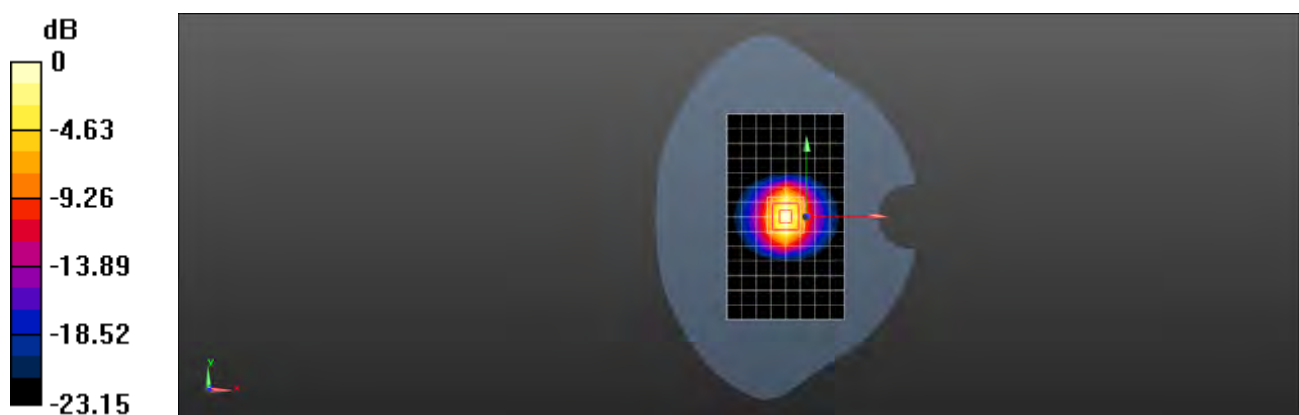
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.21 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.28 W/kg

Maximum value of SAR (measured) = 23.6 W/kg



0 dB = 23.6 W/kg = 13.73 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.25GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: $f = 5250$ MHz; $\sigma = 4.711$ S/m; $\epsilon_r = 36.654$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (8x8x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.2 W/kg

Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.28 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 32.3 W/kg

SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.27 W/kg

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.6GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: $f = 5600$ MHz; $\sigma = 5.093$ S/m; $\epsilon_r = 35.786$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (8x8x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 18.1 W/kg

Body/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 49.86 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 36.6 W/kg

SAR(1 g) = 8.44 W/kg; SAR(10 g) = 2.40 W/kg

Maximum value of SAR (measured) = 21.9 W/kg



0 dB = 21.9 W/kg = 13.40 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.75GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: $f = 5750$ MHz; $\sigma = 5.286$ S/m; $\epsilon_r = 35.605$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.83, 4.83, 4.83); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (8x8x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.4 W/kg

Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

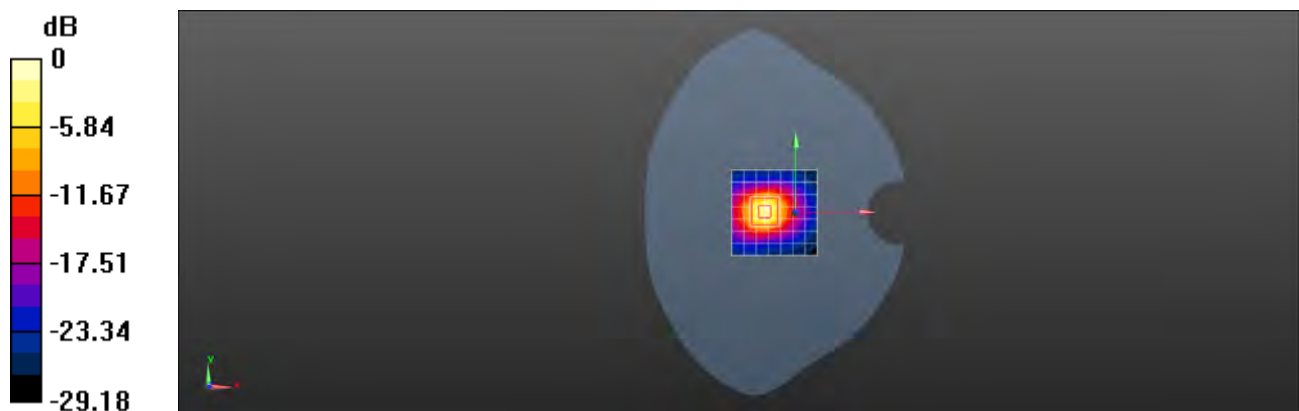
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 45.88 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 34.9 W/kg

SAR(1 g) = 7.84 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 20.8 W/kg = 13.18 dBW/kg



Appendix B

Detailed Test Results

| |
|-------------------------------|
| 1. GSM |
| GSM850 for Head & Body |
| GSM1900 for Head & Body |
| 2. WCDMA |
| WCDMA Band II for Head & Body |
| WCDMA Band IV for Head & Body |
| WCDMA Band V for Head & Body |
| 3. LTE |
| LTE Band 2 for Head & Body |
| LTE Band 4 for Head & Body |
| LTE Band 5 for Head & Body |
| LTE Band 7 for Head & Body |
| LTE Band 26 for Head & Body |
| LTE Band 38 for Head & Body |
| LTE Band 41 for Head & Body |
| 4. WIFI |
| WIFI 2.4GHz for Head & Body |
| WIFI 5GHz for Head & Body |
| 5. BT |
| BT for Head & Body |

Test Laboratory: SGS-SAR Lab

M2002J9R GSM850 GSM 190CH Left cheek Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.761$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.147 W/kg

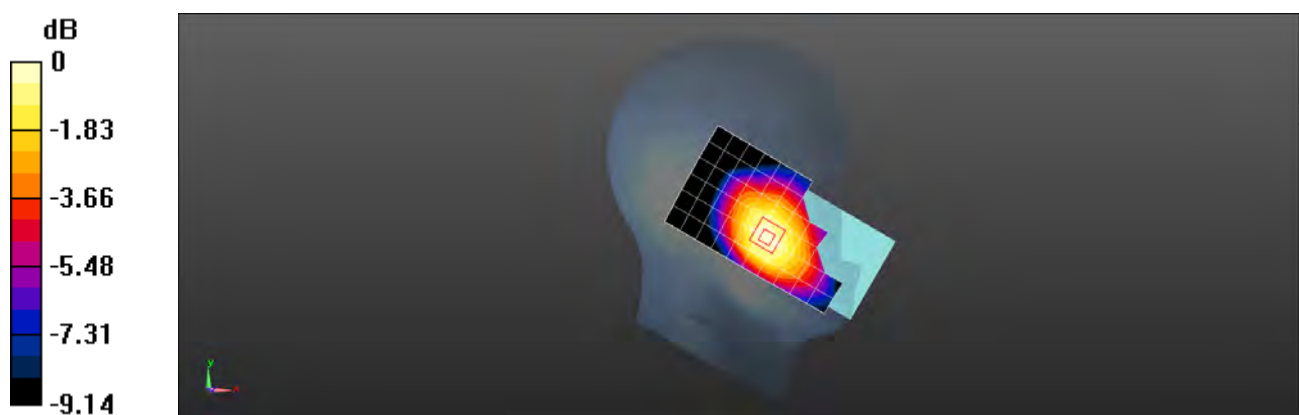
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.584 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.152 W/kg



0 dB = 0.152 W/kg = -8.18 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM850 GSM 190CH Back side 15mm Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.761$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.256 W/kg

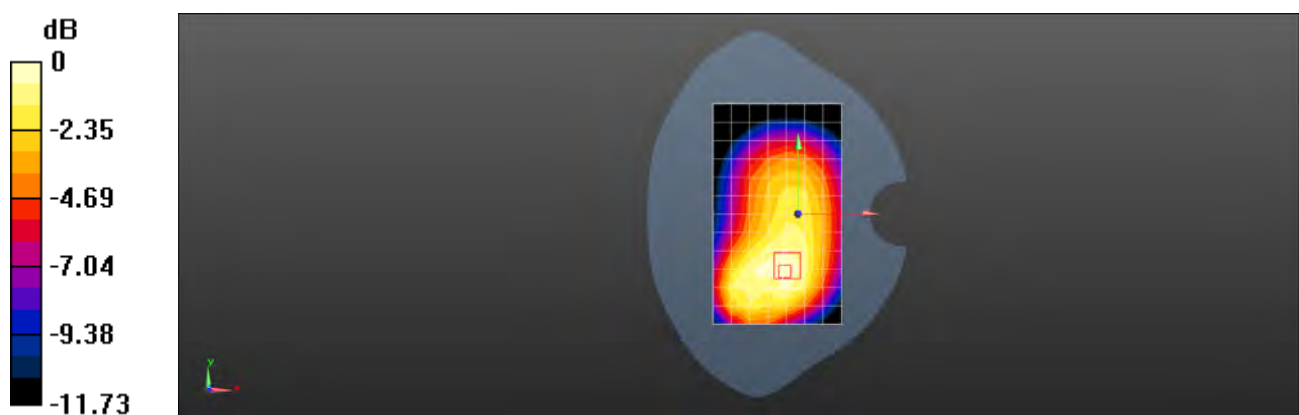
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.38 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.259 W/kg



0 dB = 0.259 W/kg = -5.87 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM850 GPRS 4TS 190CH Back side 10mm Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 850 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.761$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.411 W/kg

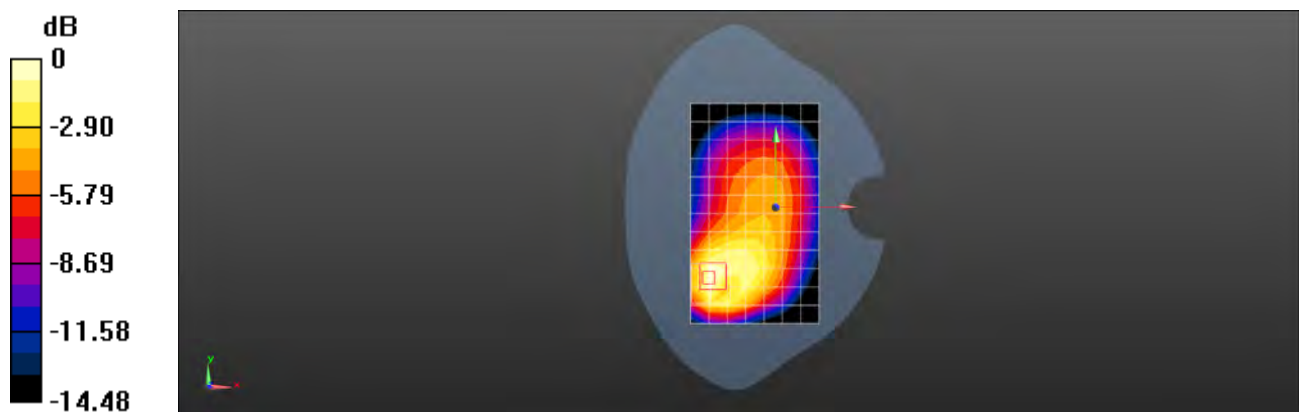
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.36 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.608 W/kg

SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 0.461 W/kg



0 dB = 0.461 W/kg = -3.36 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM850 GSM 190CH Right tilted Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.761$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.726 W/kg

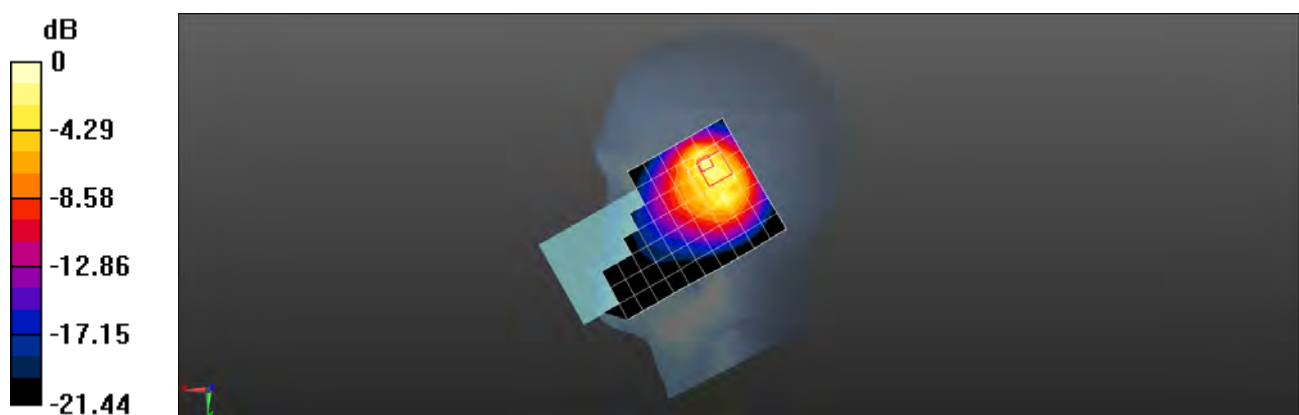
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.98 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.243 W/kg

Maximum value of SAR (measured) = 0.992 W/kg



Test Laboratory: SGS-SAR Lab

M2002J9R GSM850 GSM 190CH Back side 15mm Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.761$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.302 W/kg

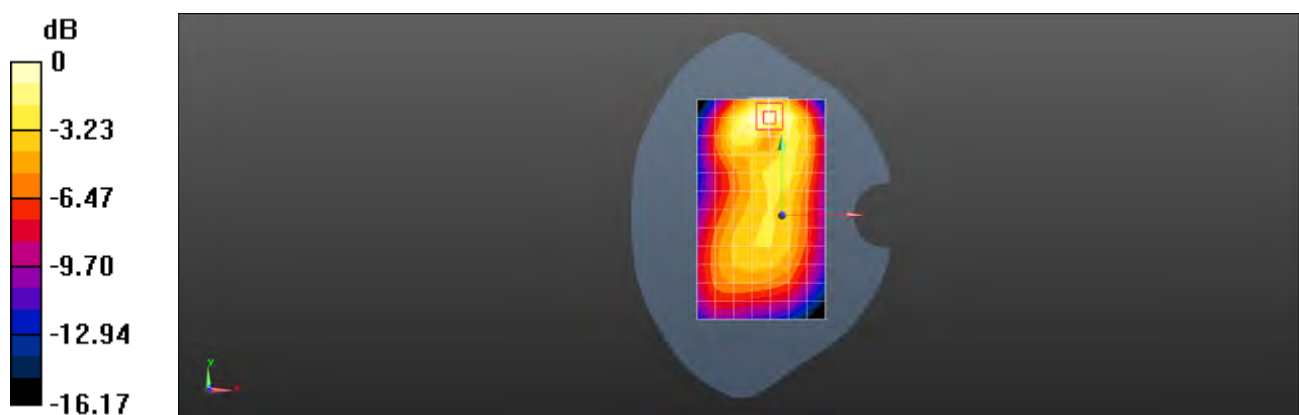
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.70 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.134 W/kg

Maximum value of SAR (measured) = 0.302 W/kg



0 dB = 0.302 W/kg = -5.20 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM850 GPRS 4TS 190CH Top side 10mm Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 850 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.761$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.208 W/kg

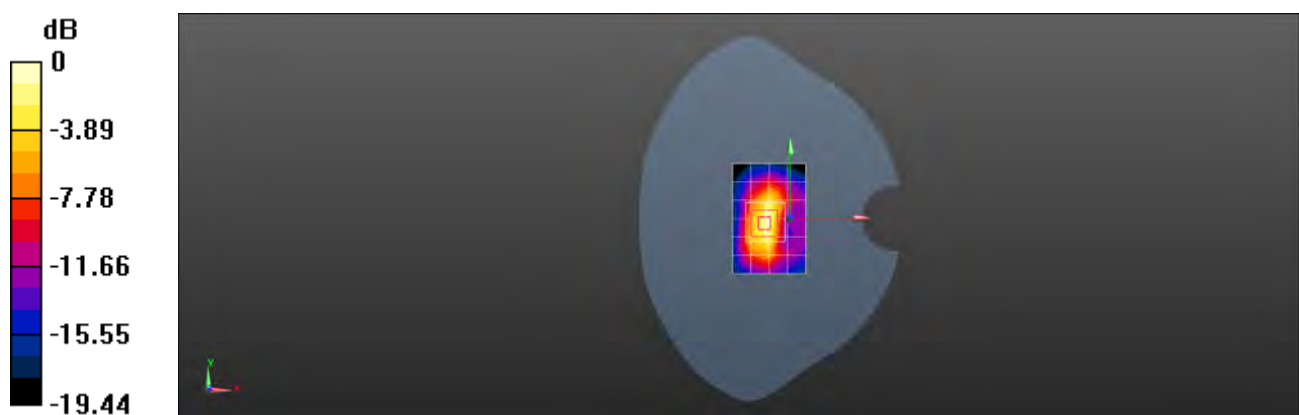
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.64 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.075 W/kg

Maximum value of SAR (measured) = 0.241 W/kg



0 dB = 0.241 W/kg = -6.18 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM1900 GSM 661CH Right cheek Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.760 W/kg

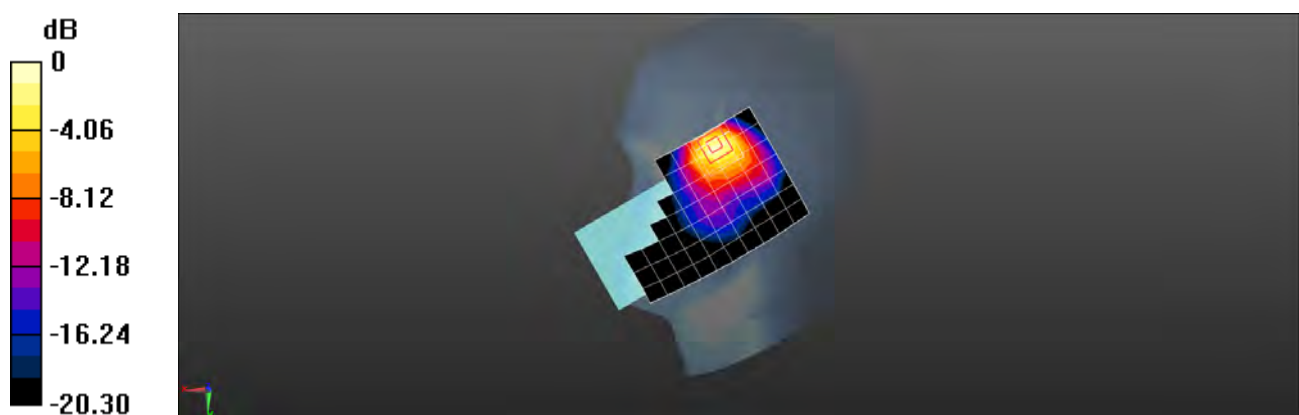
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.182 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.243 W/kg

Maximum value of SAR (measured) = 0.758 W/kg



0 dB = 0.758 W/kg = -1.20 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM1900 GSM 661CH Back side 15mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.161 W/kg

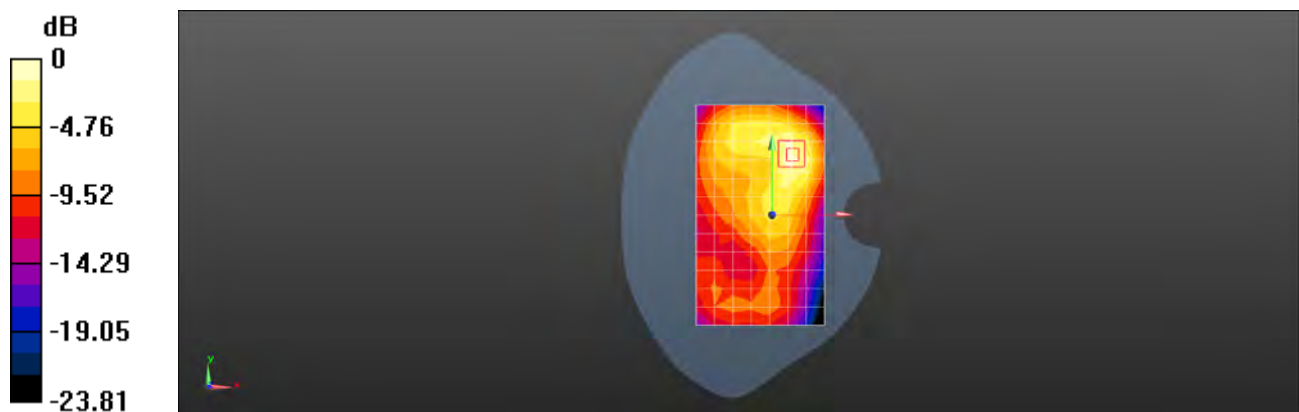
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.122 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.183 W/kg



0 dB = 0.183 W/kg = -7.38 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM1900 GPRS 4TS 661CH Left side 10mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 1900 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.184 W/kg

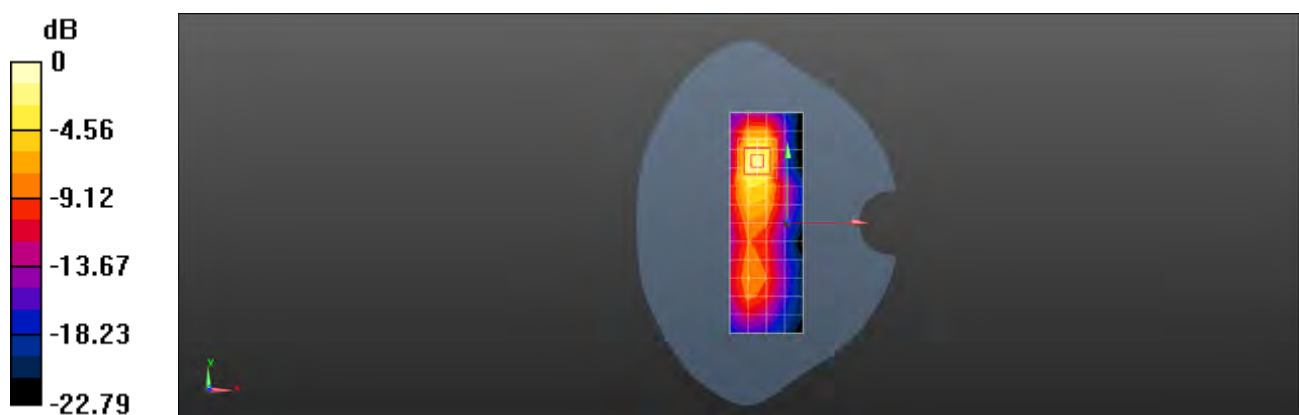
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.827 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.423 W/kg

SAR(1 g) = 0.217 W/kg; SAR(10 g) = 0.102 W/kg

Maximum value of SAR (measured) = 0.328 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM1900 GSM 661CH Right cheek Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0804 W/kg

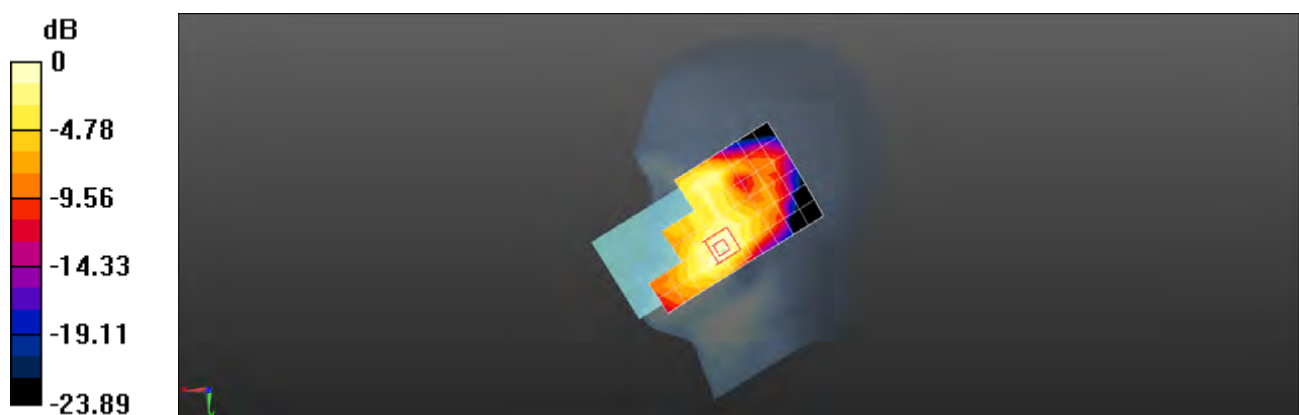
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.164 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.110 W/kg

SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.043 W/kg

Maximum value of SAR (measured) = 0.0916 W/kg



0 dB = 0.0916 W/kg = -10.38 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM1900 GSM 661CH Back side 15mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.297 W/kg

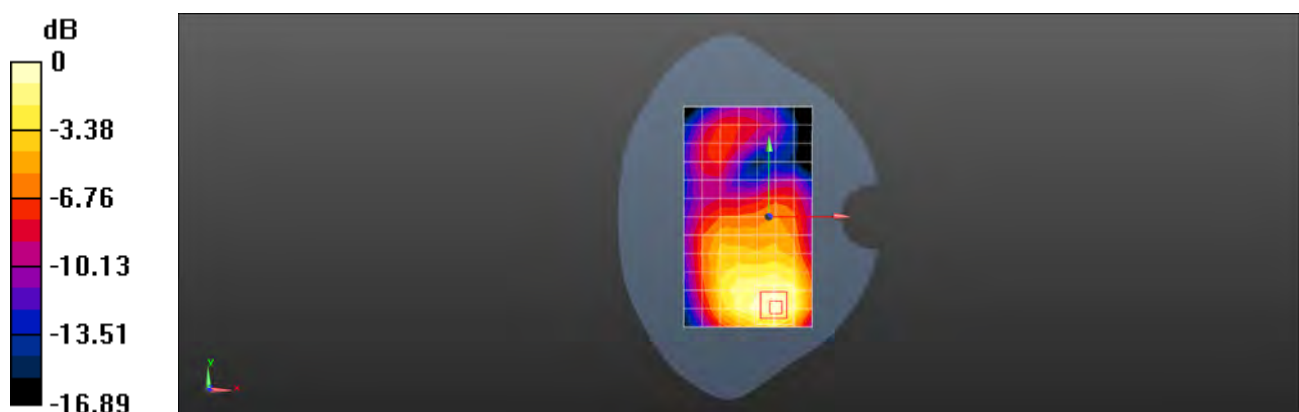
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.454 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg = -5.27 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R GSM1900 GPRS 4TS 661CH Bottom side 10mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, GSM 1900 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.578 W/kg

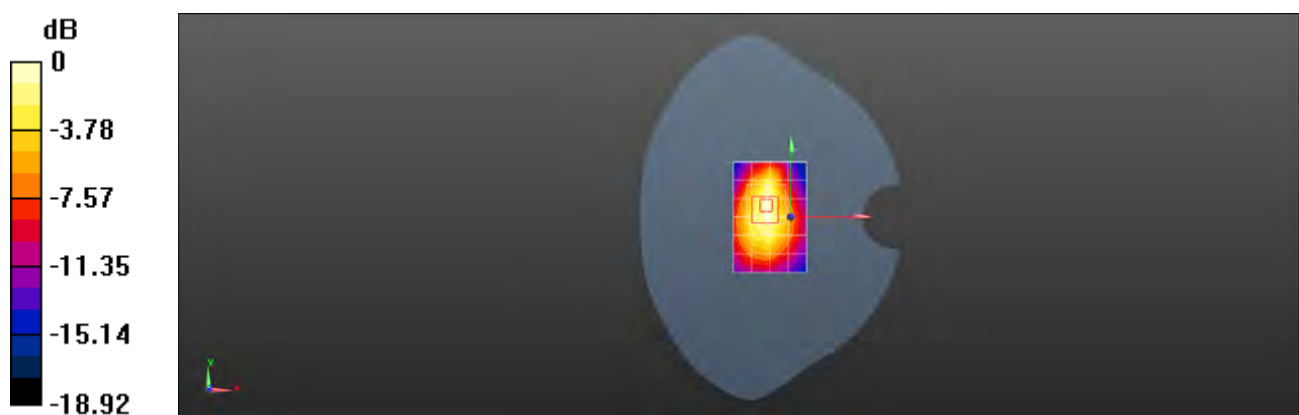
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.99 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.778 W/kg

SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.244 W/kg

Maximum value of SAR (measured) = 0.622 W/kg



0 dB = 0.622 W/kg = -2.06 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band II 9400CH Right cheek Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.959 W/kg

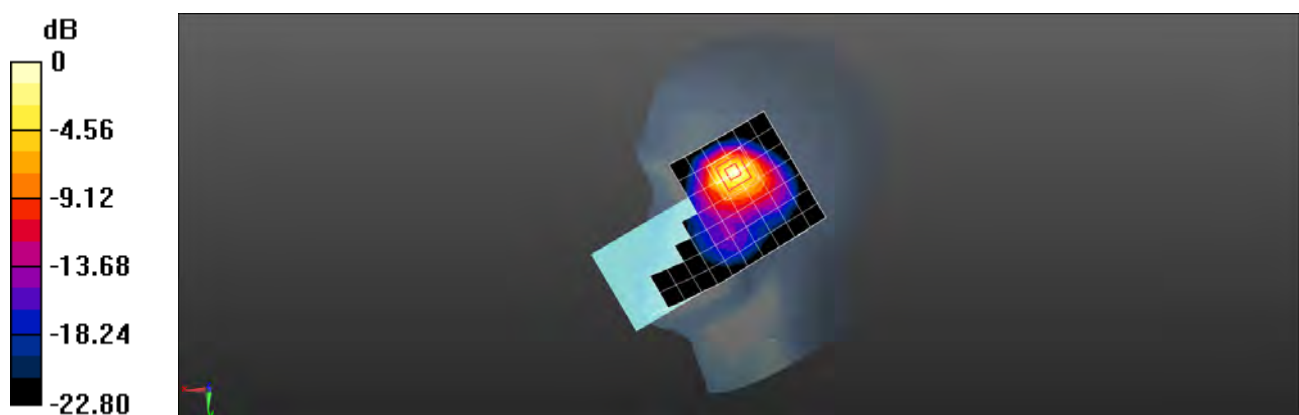
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.133 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 0.958 W/kg



Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band II 9400CH Back side 15mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.261 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.377 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.383 W/kg

SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.122 W/kg

Maximum value of SAR (measured) = 0.305 W/kg



0 dB = 0.305 W/kg = -5.16 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band II 9400CH Left side 10mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.223 W/kg

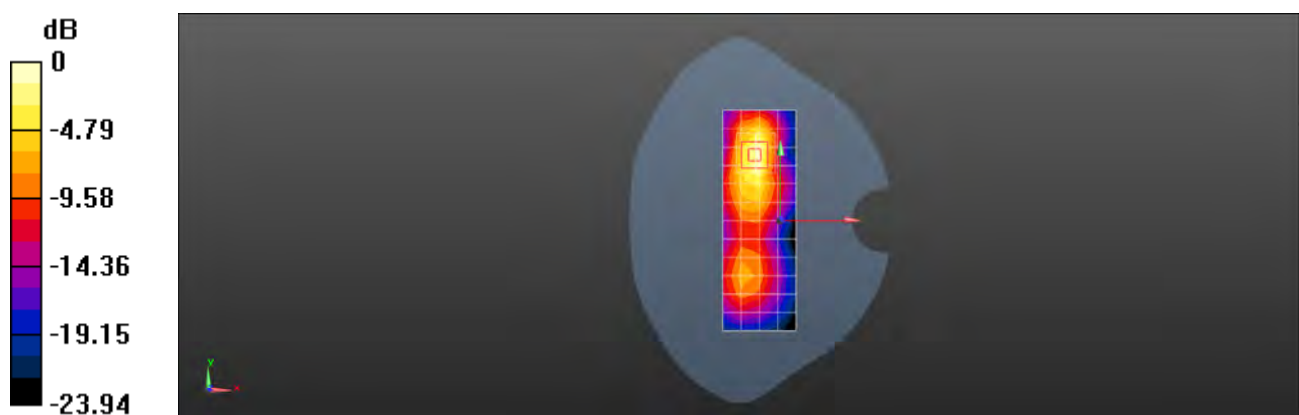
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.301 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.354 W/kg

SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.089 W/kg

Maximum value of SAR (measured) = 0.275 W/kg



0 dB = 0.275 W/kg = -5.61 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band II 9400CH Right titled Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.193 W/kg

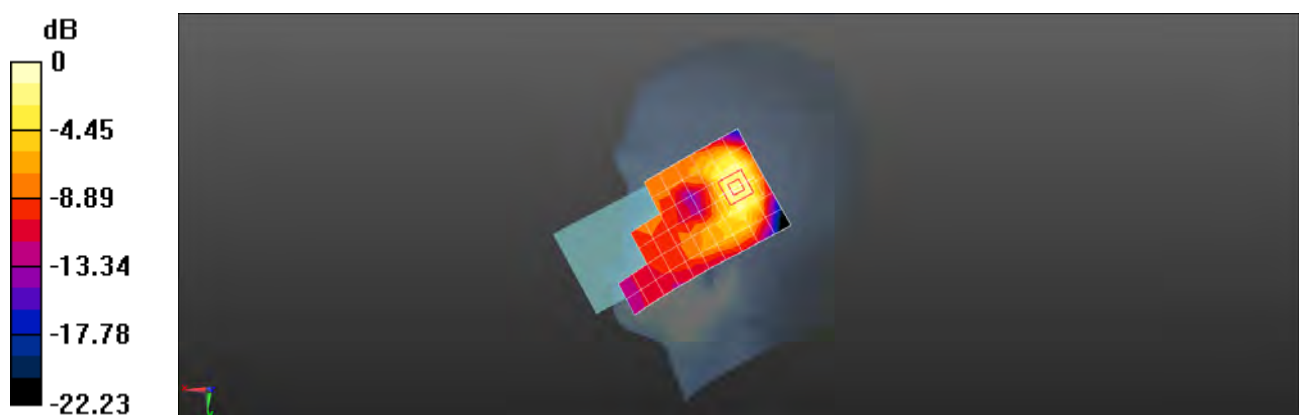
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.45 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.105 W/kg

Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg = -5.90 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band II 9400CH Back side 15mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.673 W/kg

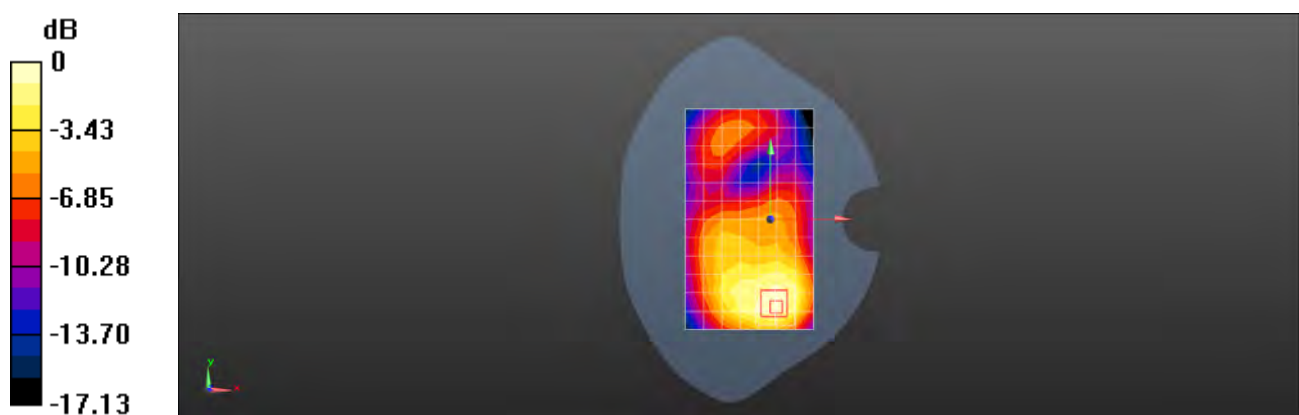
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.17 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.853 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.319 W/kg

Maximum value of SAR (measured) = 0.700 W/kg



0 dB = 0.700 W/kg = -1.55 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band II 9400CH Bottom side 10mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.742 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

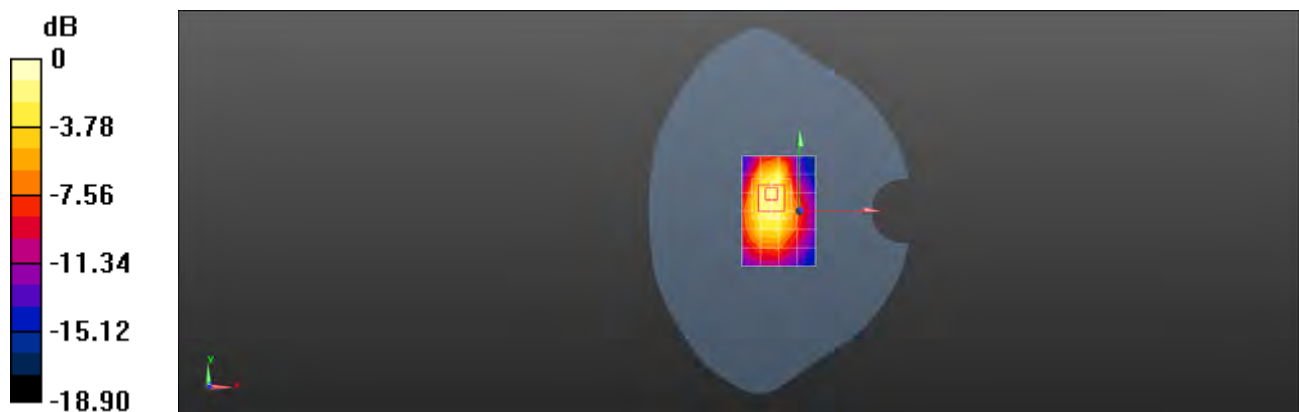
Reference Value = 19.84 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.673 W/kg; SAR(10 g) = 0.354 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Maximum value of SAR (measured) = 0.956 W/kg



0 dB = 0.956 W/kg = -0.20 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band II 9400CH Bottom side 0mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 9.22 W/kg

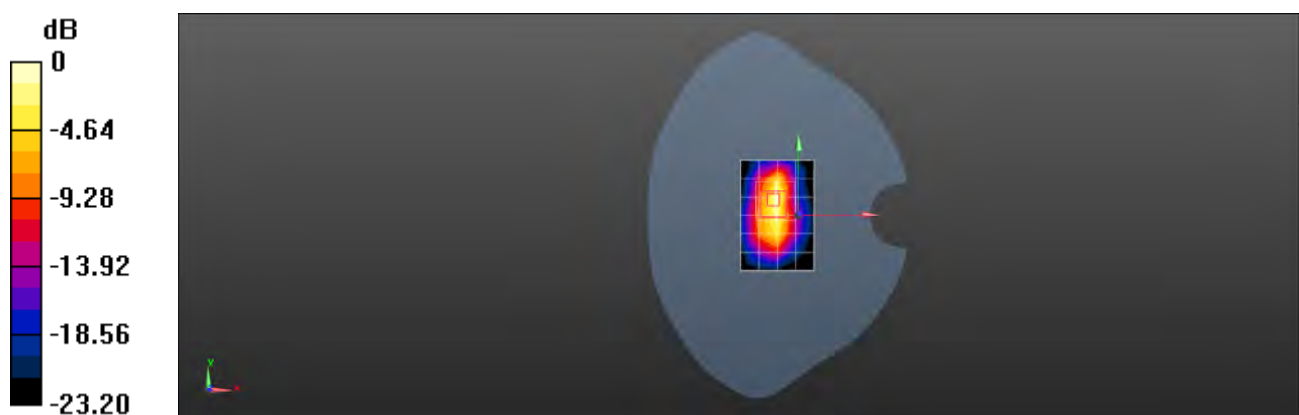
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.72 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 6.1 W/kg; SAR(10 g) = 2.52 W/kg

Maximum value of SAR (measured) = 10.9 W/kg



0 dB = 10.9 W/kg = 10.37 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band IV 1513CH Right cheek Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band IV; Frequency: 1752.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1752.4$ MHz; $\sigma = 1.31$ S/m; $\epsilon_r = 40.269$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.10 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

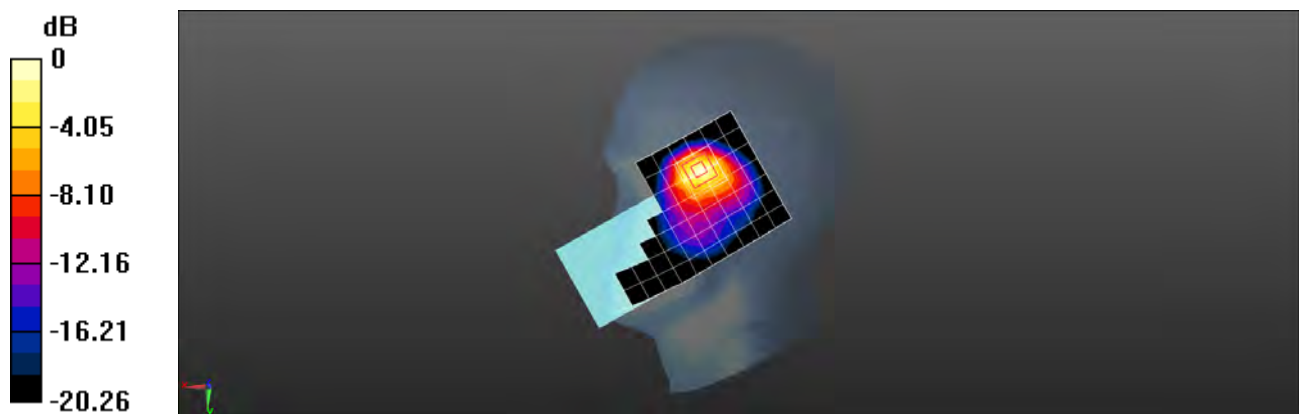
Reference Value = 6.138 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.286 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.982 W/kg



0 dB = 0.982 W/kg = -0.08 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band IV 1412CH Back side 15mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band IV; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.343 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

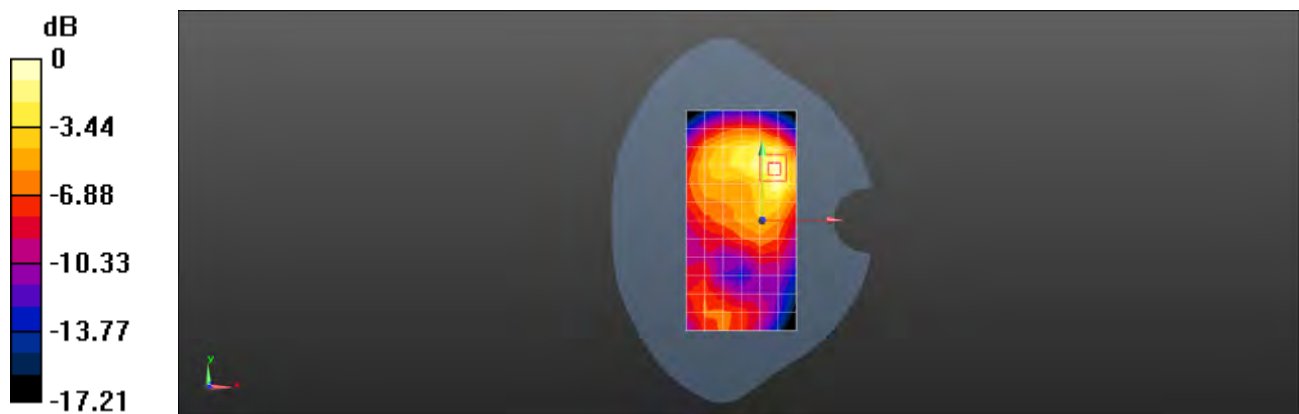
Reference Value = 8.603 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.152 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.374 W/kg



0 dB = 0.374 W/kg = -4.27 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band IV 1412CH Left side 10mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band IV; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.155 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

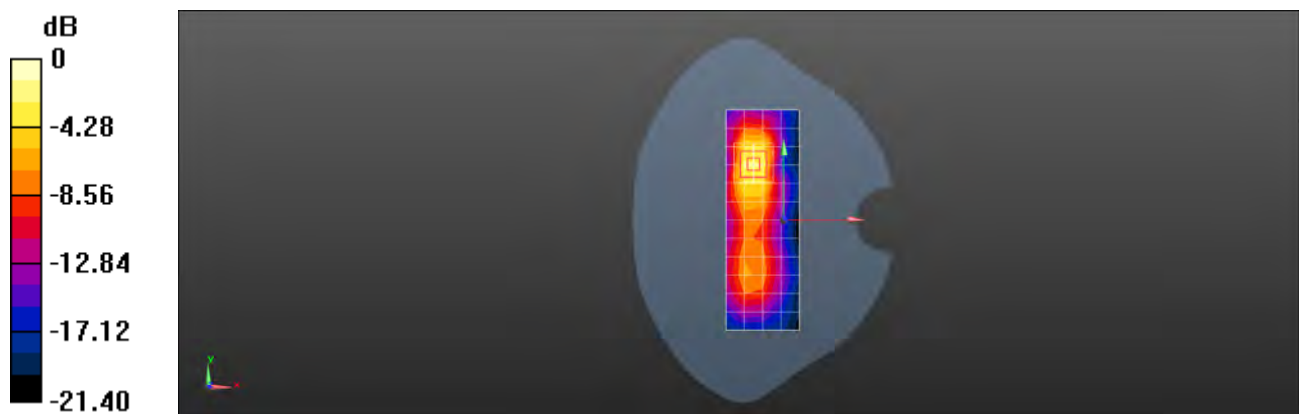
Reference Value = 5.055 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.088 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.277 W/kg



0 dB = 0.277 W/kg = -5.58 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band IV 1412CH Right titled Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band IV; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.187 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

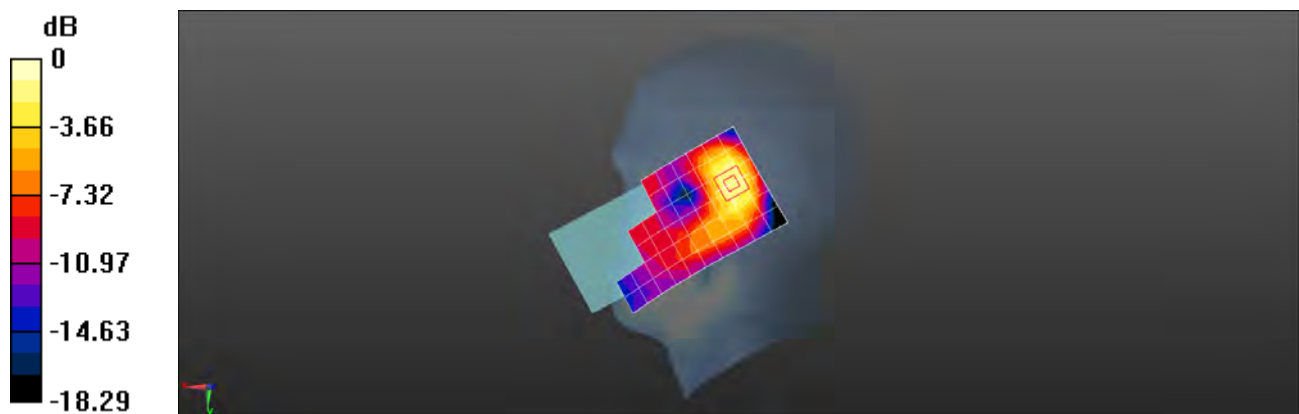
Reference Value = 10.66 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.287 W/kg

SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.108 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.241 W/kg



0 dB = 0.241 W/kg = -6.18 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band IV 1412CH Back side 15mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band IV; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.506 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

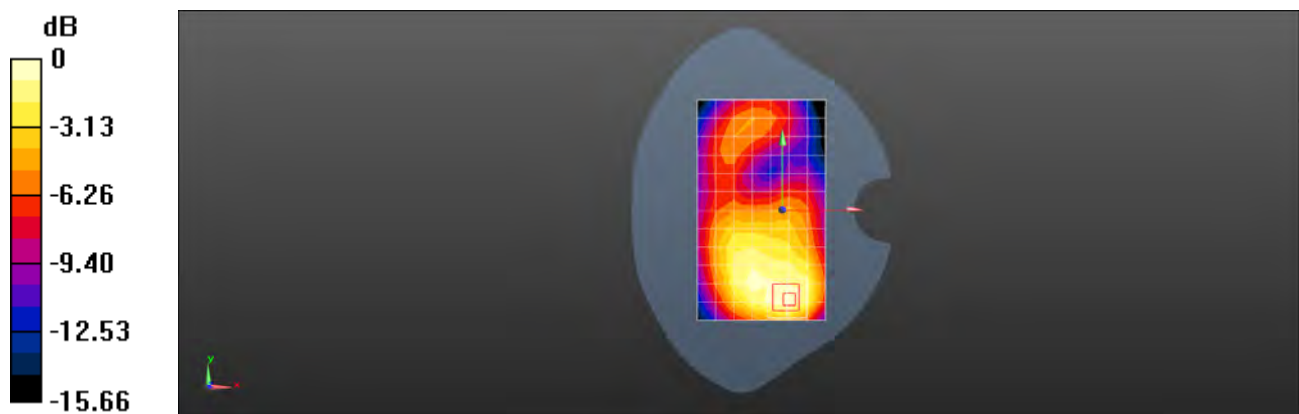
Reference Value = 9.797 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.241 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.506 W/kg



0 dB = 0.506 W/kg = -2.96 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band IV 1513CH Bottom side 10mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band IV; Frequency: 1752.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1752.4$ MHz; $\sigma = 1.31$ S/m; $\epsilon_r = 40.269$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.754 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

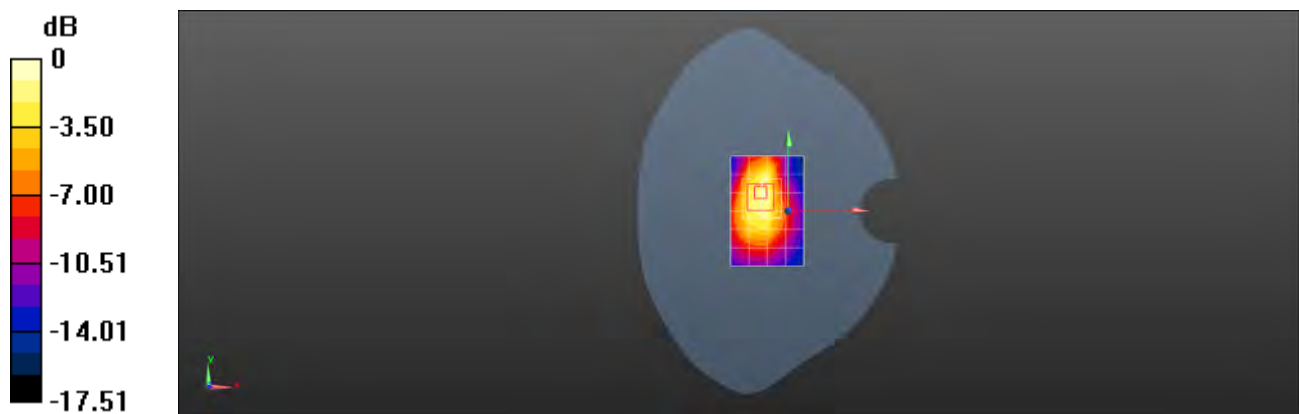
Reference Value = 20.26 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.304 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.902 W/kg = -0.45 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band IV 1513CH Bottom side 0mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band IV; Frequency: 1752.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1752.4$ MHz; $\sigma = 1.31$ S/m; $\epsilon_r = 40.269$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.58 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

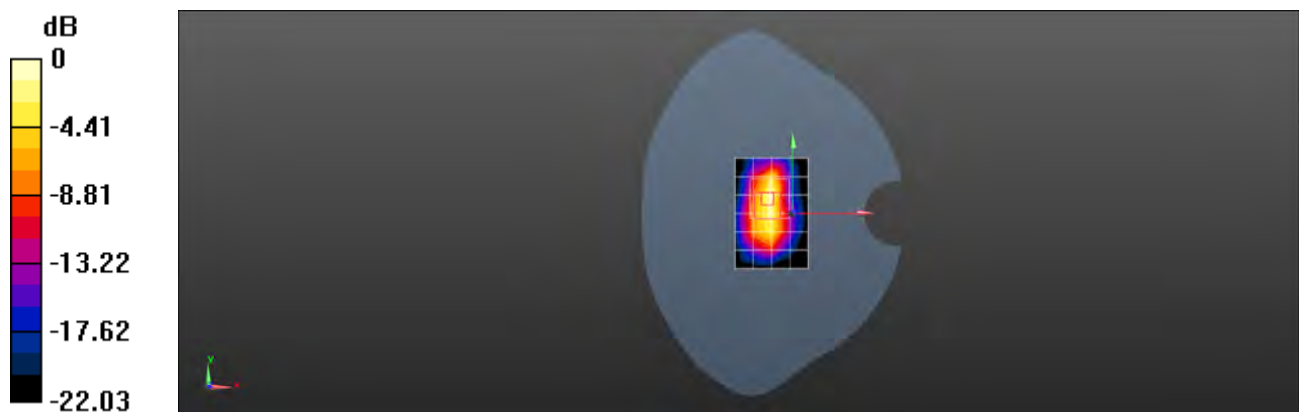
Reference Value = 50.87 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 9.39 W/kg

SAR(1 g) = 3.91 W/kg; SAR(10 g) = 1.72 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.69 W/kg



0 dB = 6.69 W/kg = 8.25 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band V 4182CH Left cheek Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.765$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.148 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

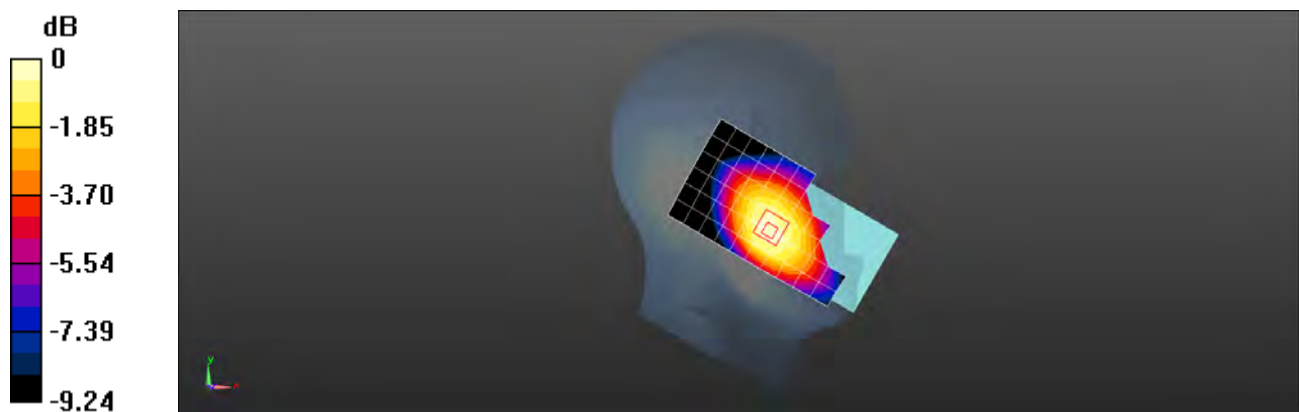
Reference Value = 3.950 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.101 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.152 W/kg



0 dB = 0.152 W/kg = -8.18 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band V 4182CH Back side 15mm Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.765$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.270 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

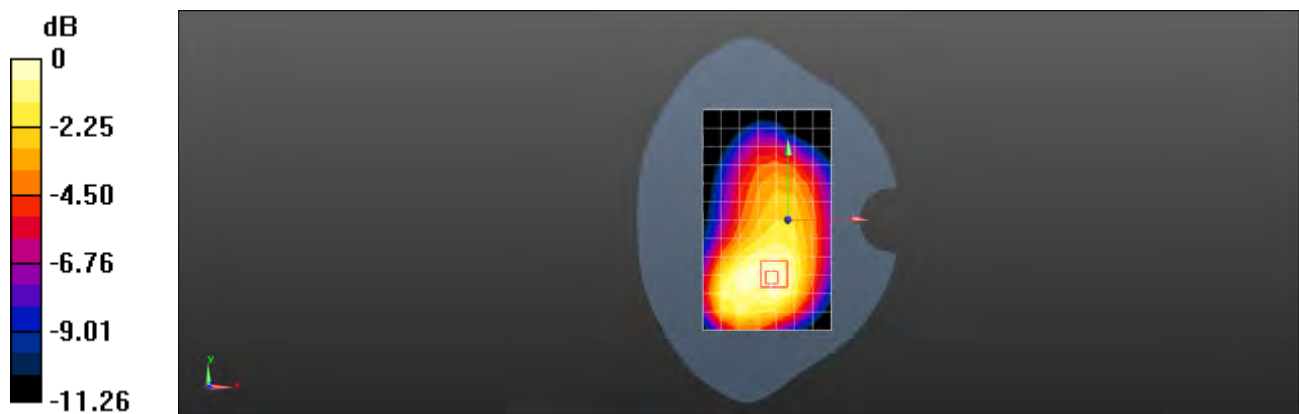
Reference Value = 12.07 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.319 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.163 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.275 W/kg



0 dB = 0.275 W/kg = -5.61 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band V 4182CH Back side 10mm Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.765$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.546 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

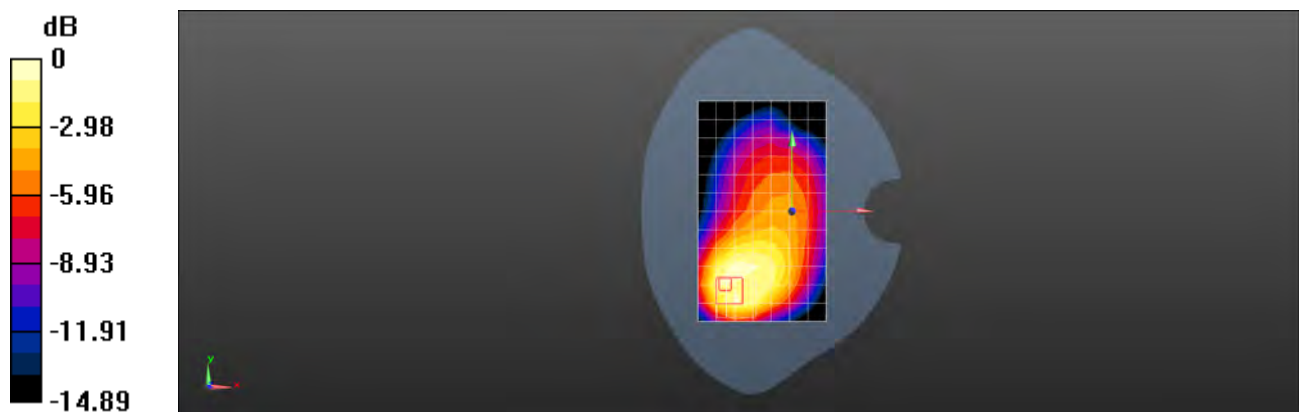
Reference Value = 14.04 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.791 W/kg

SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.246 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.612 W/kg



0 dB = 0.612 W/kg = -2.13 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band V 4233CH Right cheek Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 847$ MHz; $\sigma = 0.946$ S/m; $\epsilon_r = 41.684$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.23 W/kg

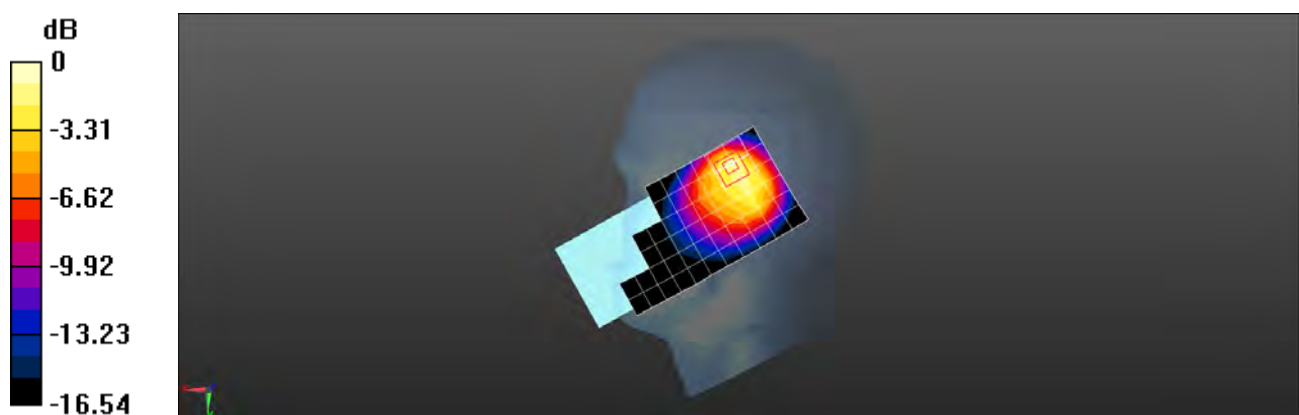
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.04 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.427 W/kg

Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.39 W/kg = 1.43 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band V 4182CH Back side 15mm Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.765$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.317 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

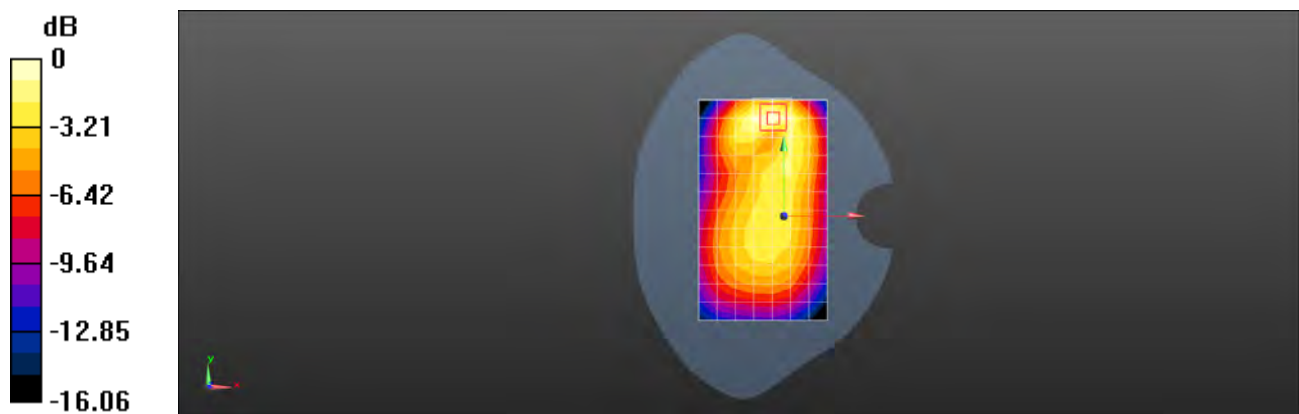
Reference Value = 13.03 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.392 W/kg

SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.140 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.316 W/kg



0 dB = 0.316 W/kg = -5.00 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WCDMA Band V 4182CH Top side 10mm Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.765$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.379 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

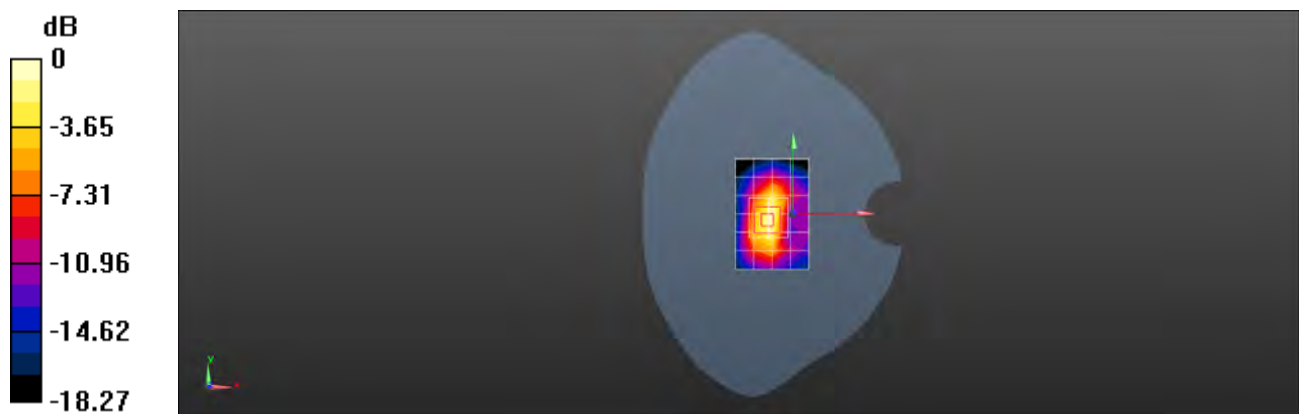
Reference Value = 17.52 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.575 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.139 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.424 W/kg



0 dB = 0.424 W/kg = -3.73 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 2 20M QPSK 50RB50 19100CH Right cheek Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.173$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.04 W/kg

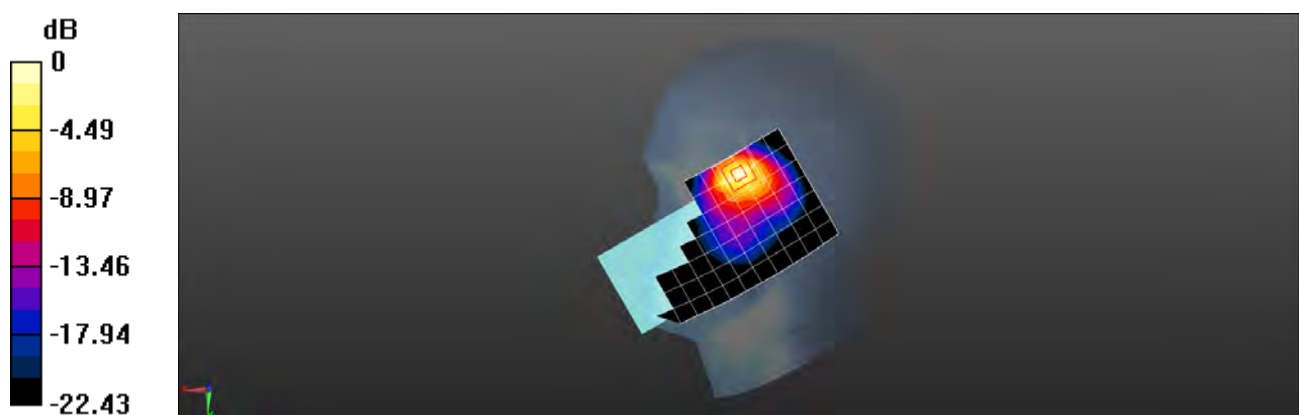
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.379 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.628 W/kg; SAR(10 g) = 0.272 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 2 20M QPSK 1RB50 18700CH Back side 15mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 2; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1860$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 40.216$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.402 W/kg

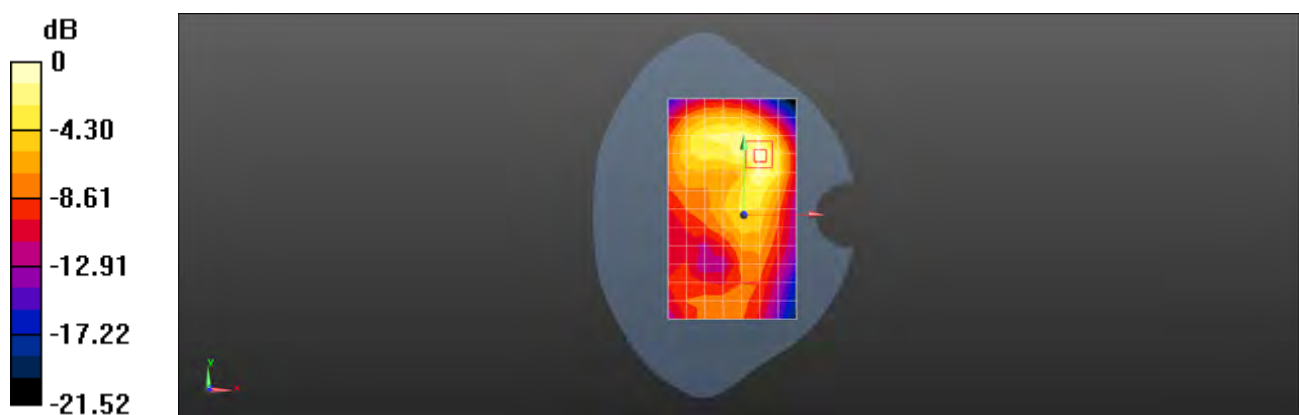
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.005 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.411 W/kg



0 dB = 0.411 W/kg = -3.86 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 2 20M QPSK 50RB50 19100CH Left side 10mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.173$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.186 W/kg

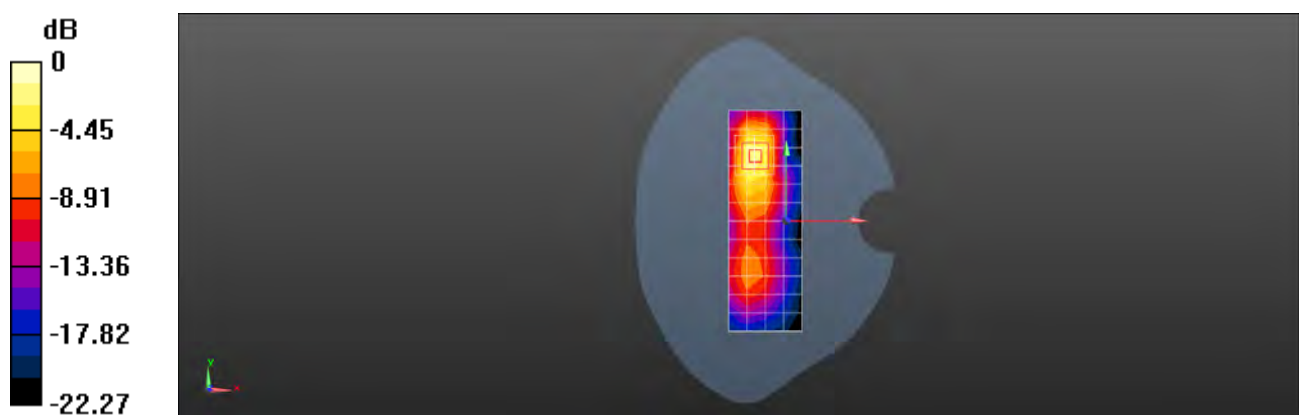
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.486 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.400 W/kg

SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.315 W/kg



0 dB = 0.315 W/kg = -5.02 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 2 20M QPSK 1RB0 18900CH Right cheek Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.196 W/kg

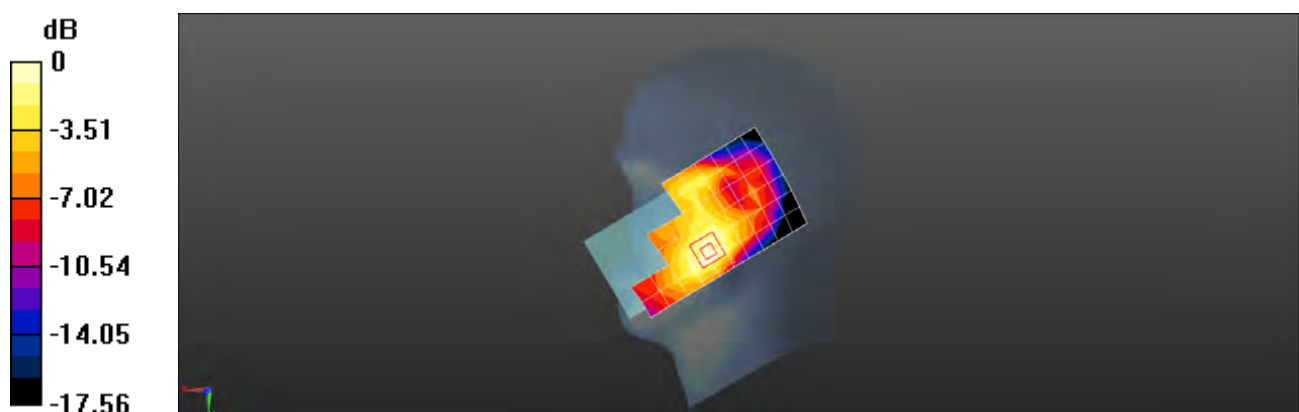
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.353 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.103 W/kg

Maximum value of SAR (measured) = 0.209 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 2 20M QPSK 1RB0 18900CH Back side 15mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.572 W/kg

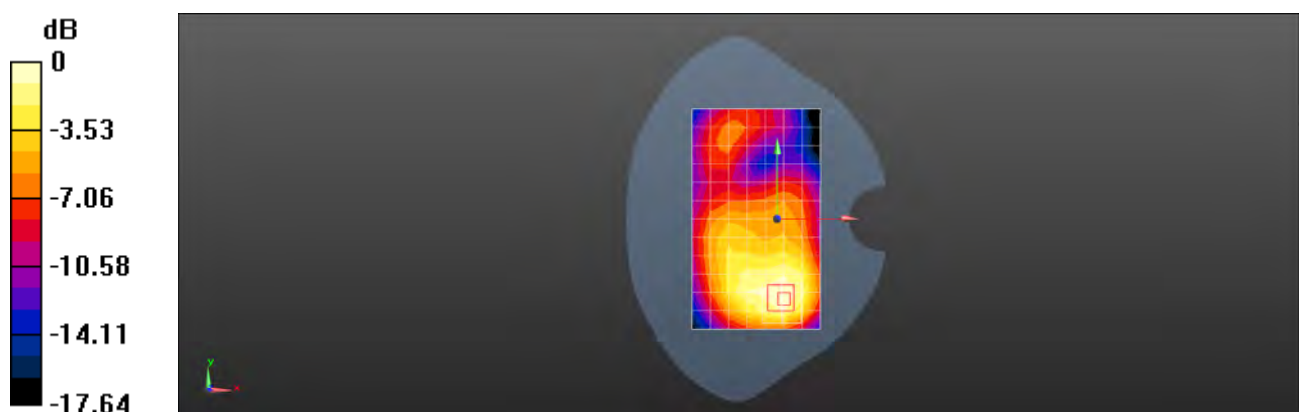
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.48 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.754 W/kg

SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.283 W/kg

Maximum value of SAR (measured) = 0.614 W/kg



0 dB = 0.614 W/kg = -2.12 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 2 20M QPSK 50RB0 18900CH Bottom side 10mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.597 W/kg

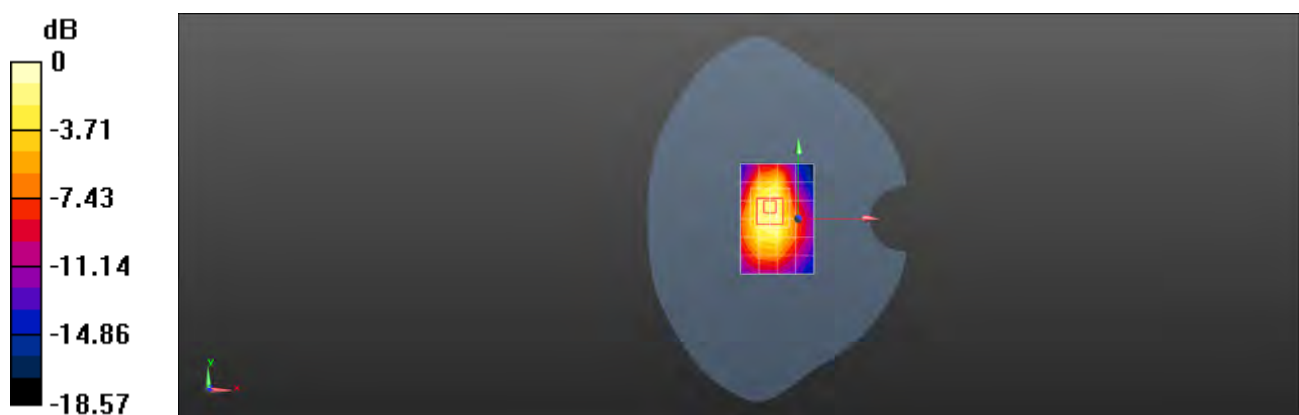
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.76 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.972 W/kg

SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.777 W/kg



0 dB = 0.777 W/kg = -1.10 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 2 20M QPSK 1RB50 19100CH Bottom side 0mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 40.173$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.61, 7.61, 7.61); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 8.00 W/kg

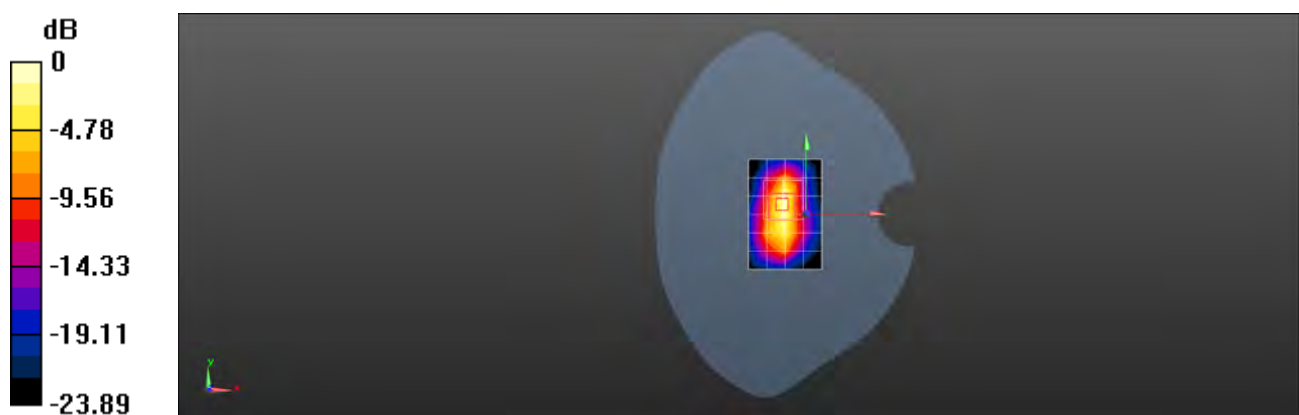
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.05 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 9.16 W/kg



0 dB = 9.16 W/kg = 9.62 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 4 20M QPSK 1RB50 20175CH Right cheek Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.825 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

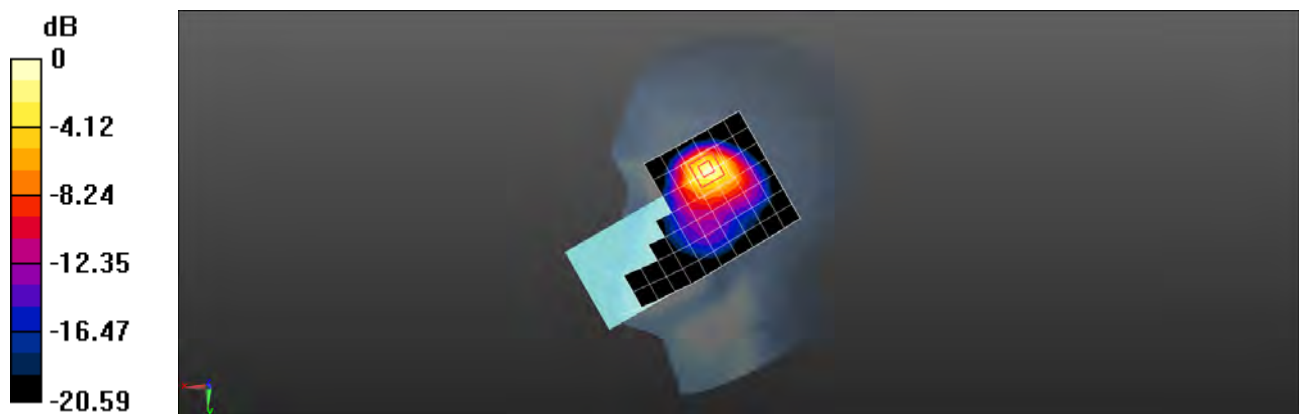
Reference Value = 5.182 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.219 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.772 W/kg



0 dB = 0.772 W/kg = -1.12 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 4 20M QPSK 1RB50 20175CH Back side 15mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.283 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

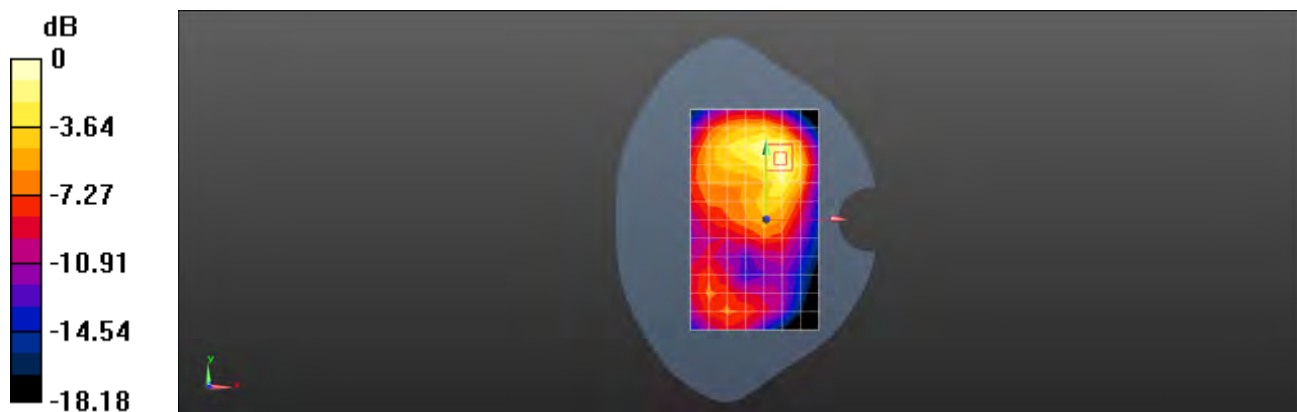
Reference Value = 6.810 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.119 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.293 W/kg



0 dB = 0.293 W/kg = -5.33 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 4 20M QPSK 1RB50 20175CH Left side 10mm Ant5

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.126 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

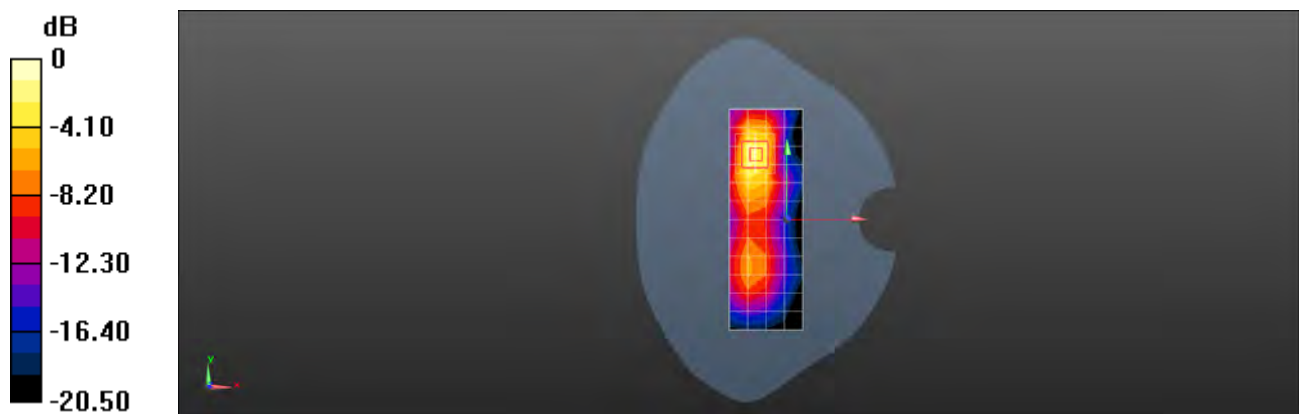
Reference Value = 3.917 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.069 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.211 W/kg = -6.76 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 4 20M QPSK 1RB50 20175CH Right titled Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.154 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

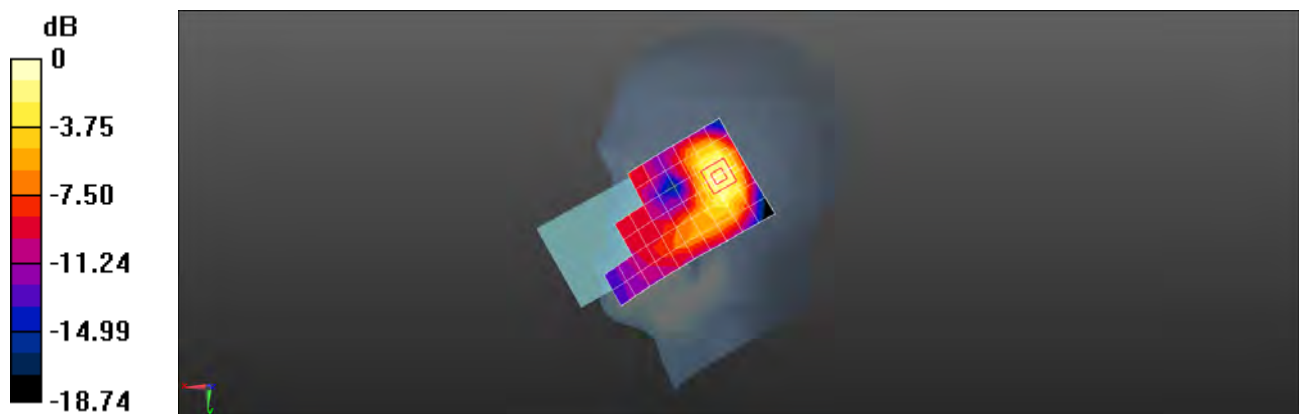
Reference Value = 9.533 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.085 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.193 W/kg



0 dB = 0.193 W/kg = -7.14 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 4 20M QPSK 1RB50 20175CH Back side 15mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.279$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.432 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

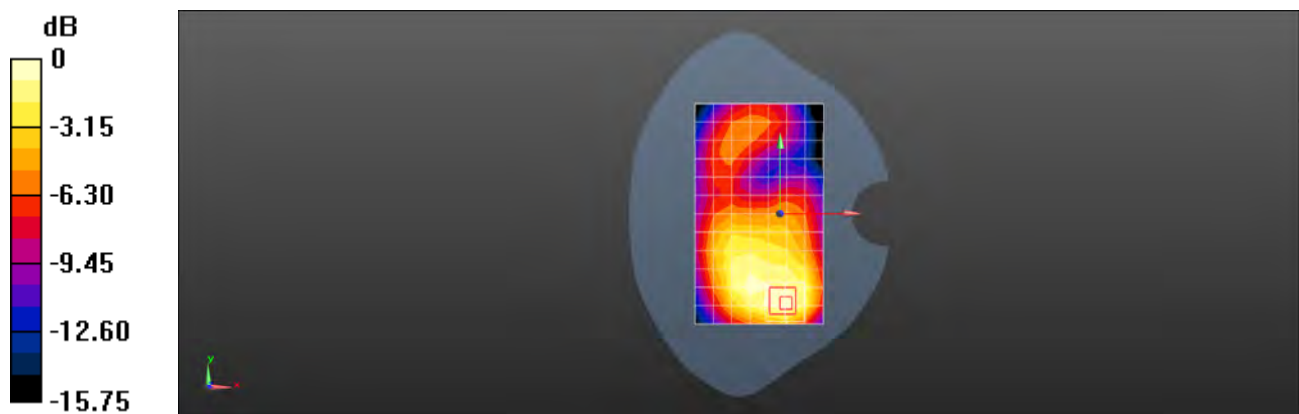
Reference Value = 8.989 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.206 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.435 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 4 20M QPSK 50RB25 20300CH Bottom side 10mm Ant10

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 4; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium: HSL1750;Medium parameters used: $f = 1745$ MHz; $\sigma = 1.306$ S/m; $\epsilon_r = 40.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.81, 7.81, 7.81); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.676 W/kg

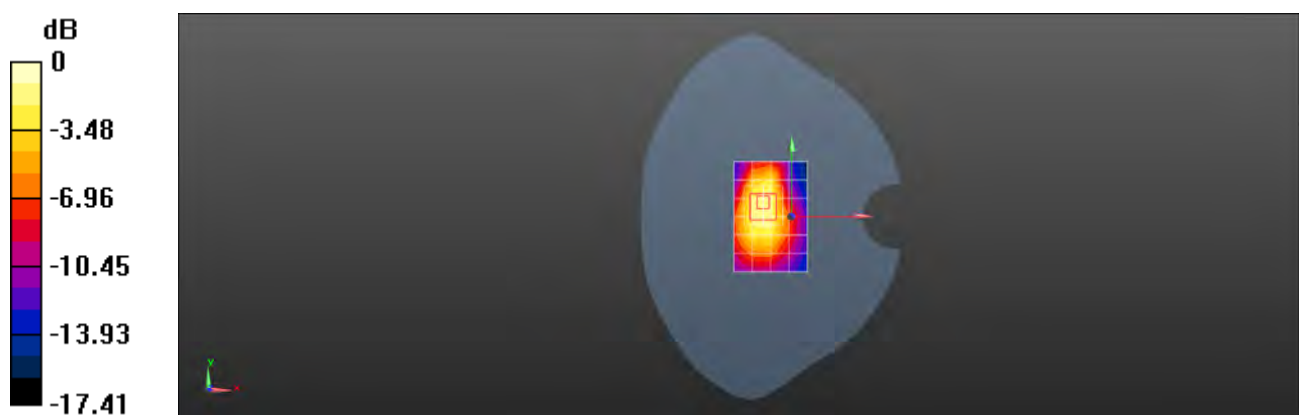
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.49 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.355 W/kg

Maximum value of SAR (measured) = 0.887 W/kg



0 dB = 0.887 W/kg = -0.52 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 5 10M QPSK 1RB0 20450CH Left cheek Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 829$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.824$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.107 W/kg

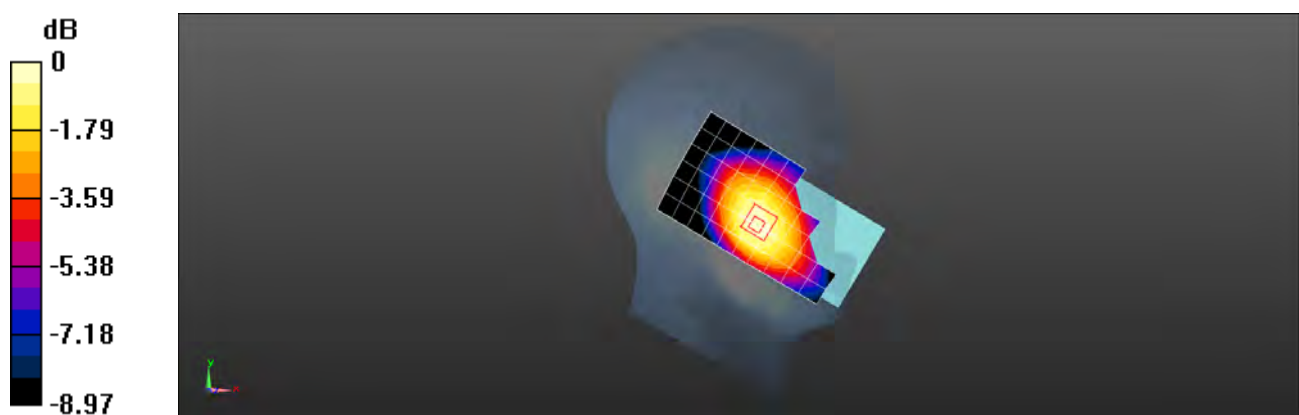
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.704 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.121 W/kg

SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.109 W/kg



0 dB = 0.109 W/kg = -9.63 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 5 10M QPSK 1RB0 20450CH Back side 15mm Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 829$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.824$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.197 W/kg

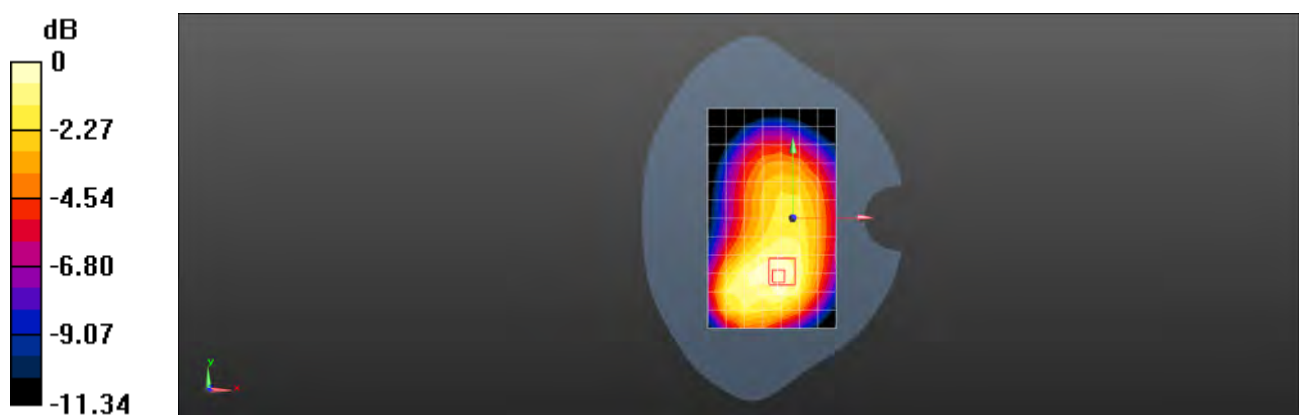
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.78 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.119 W/kg

Maximum value of SAR (measured) = 0.199 W/kg



0 dB = 0.199 W/kg = -7.01 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 5 10M QPSK 1RB0 20450CH Back side 10mm Ant1

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 829$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.824$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.391 W/kg

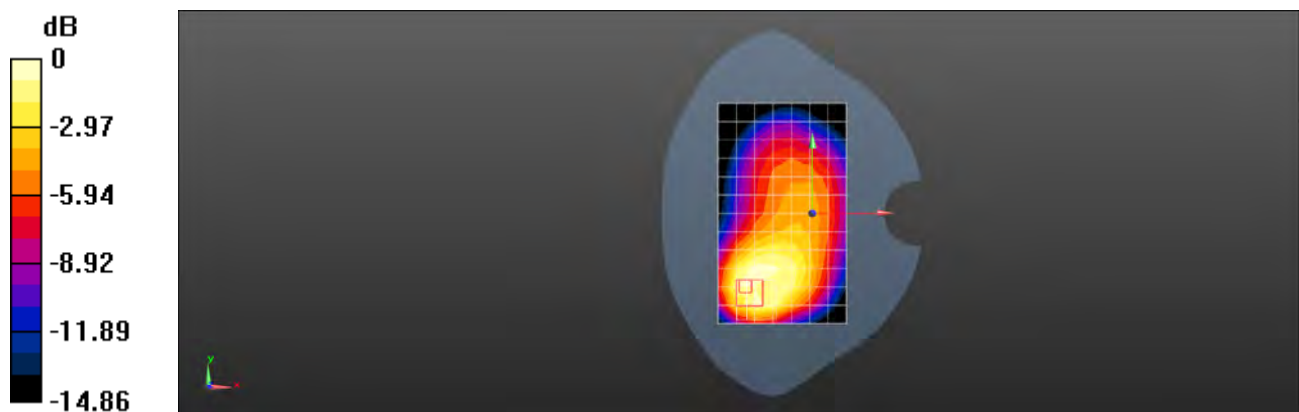
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.55 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.567 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.439 W/kg



0 dB = 0.439 W/kg = -3.58 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 5 10M QPSK 25RB0 20600CH Right cheek Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 844 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 844$ MHz; $\sigma = 0.944$ S/m; $\epsilon_r = 41.706$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.16 W/kg

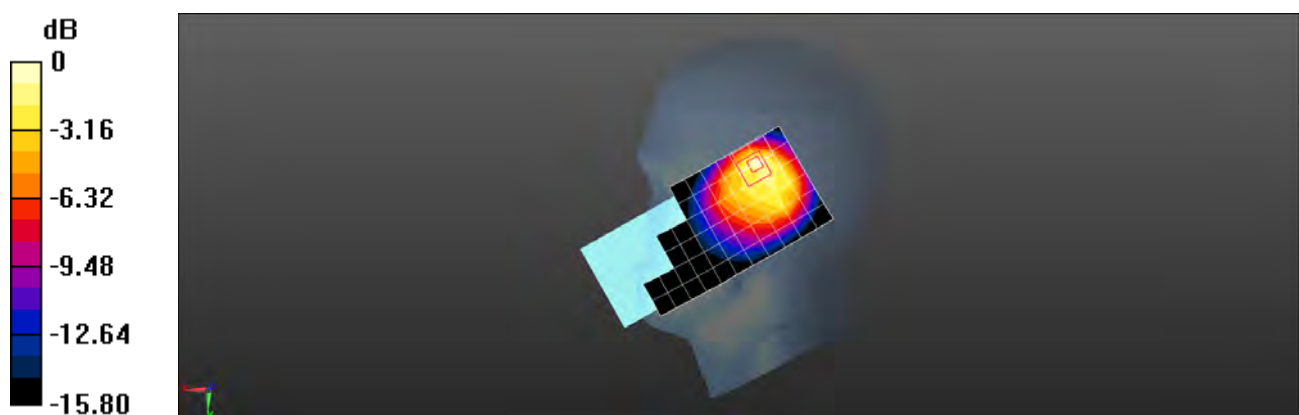
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.09 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.397 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 5 10M QPSK 1RB0 20525CH Back side 15mm Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.765$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.290 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

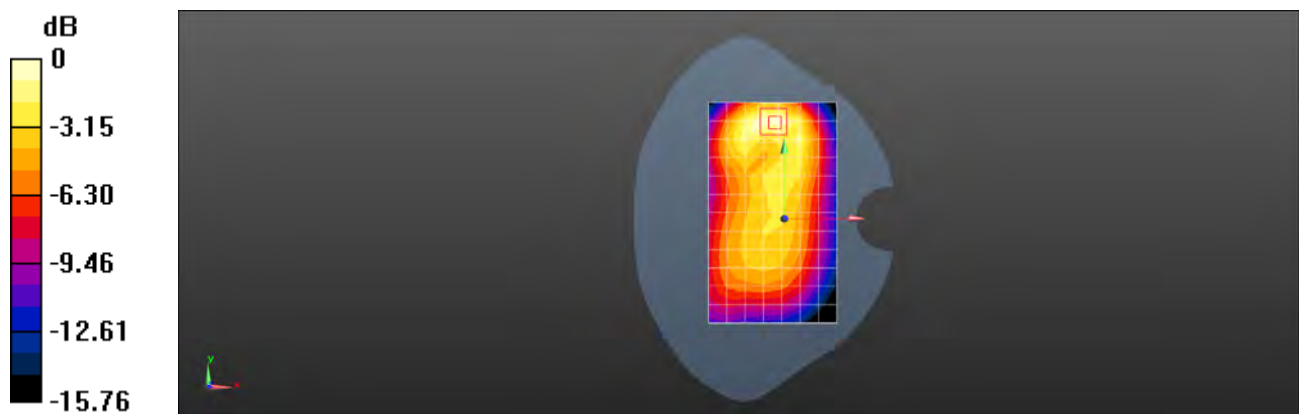
Reference Value = 11.83 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.134 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.301 W/kg



0 dB = 0.301 W/kg = -5.21 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 5 10M QPSK 25RB25 20450CH Top side 10mm Ant4

DUT: M2002J9R; Type: mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 829$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.824$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.05, 9.05, 9.05); Calibrated: 2020-05-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.304 W/kg

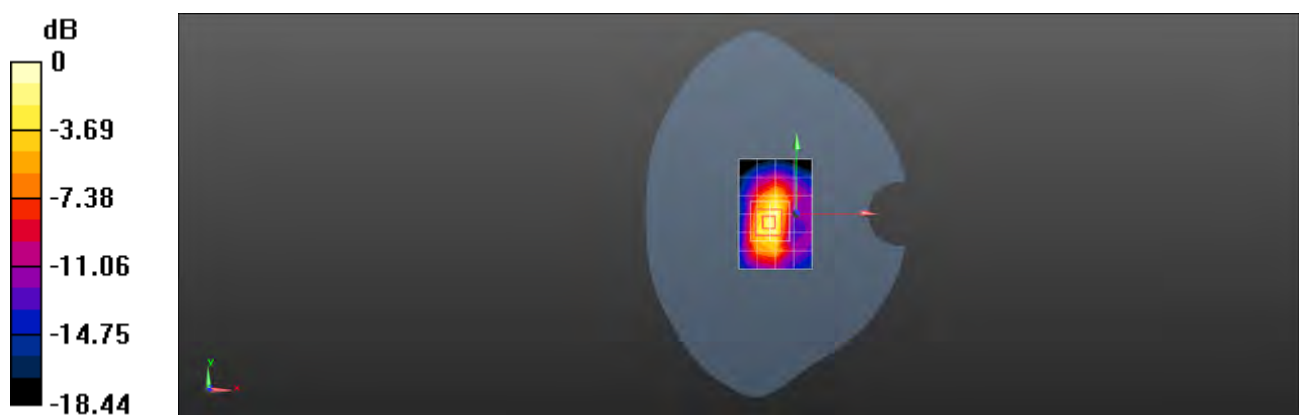
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.44 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.507 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.375 W/kg



0 dB = 0.375 W/kg = -4.26 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 7 20M QPSK 50RB25 20850CH Right cheek Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2510$ MHz; $\sigma = 1.872$ S/m; $\epsilon_r = 39.186$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.703 W/kg

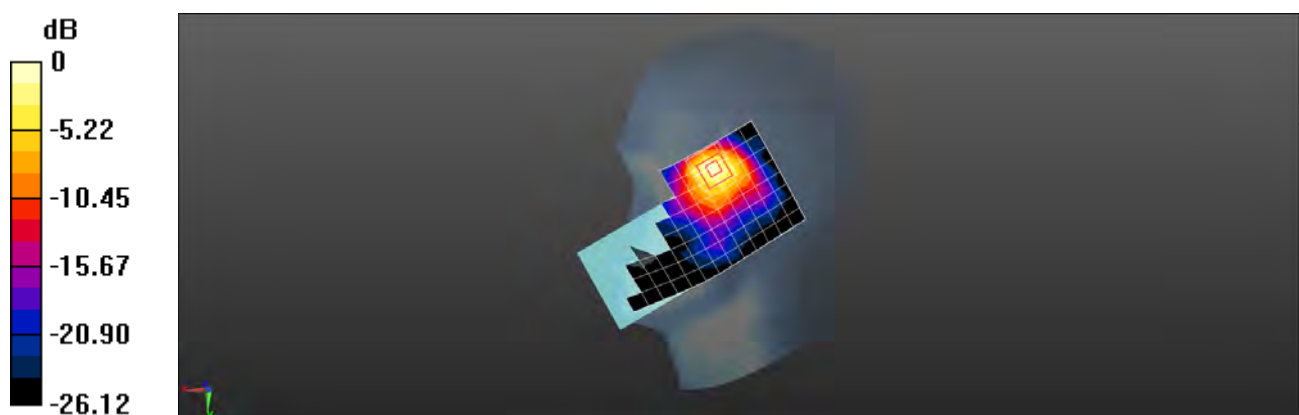
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.383 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.188 W/kg

Maximum value of SAR (measured) = 0.806 W/kg



0 dB = 0.806 W/kg = -0.94 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 7 20M QPSK 1RB0 21350CH Back side 15mm Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2560$ MHz; $\sigma = 1.931$ S/m; $\epsilon_r = 38.998$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.368 W/kg

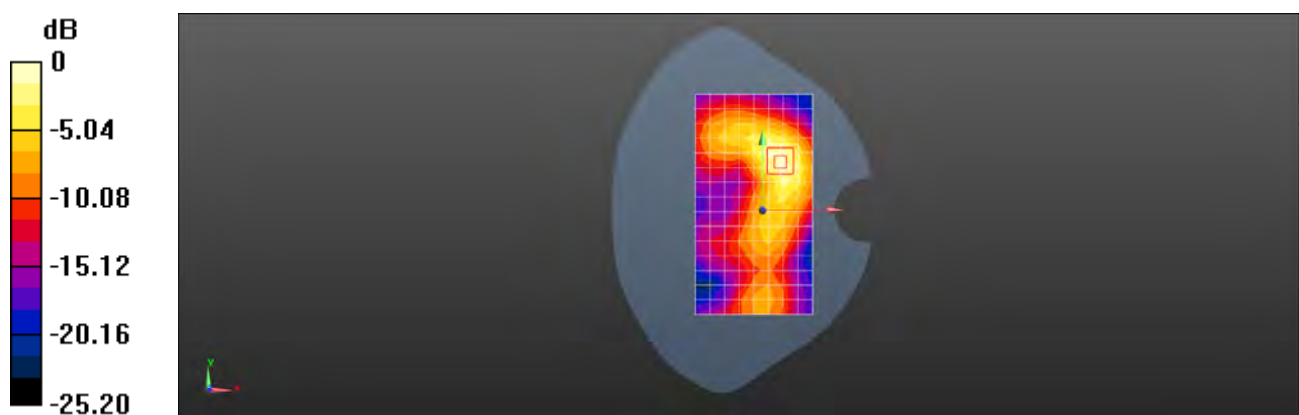
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.818 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.389 W/kg



0 dB = 0.389 W/kg = -4.10 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 7 20M QPSK 1RB50 20850CH Left side 10mm Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2510$ MHz; $\sigma = 1.872$ S/m; $\epsilon_r = 39.186$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.156 W/kg

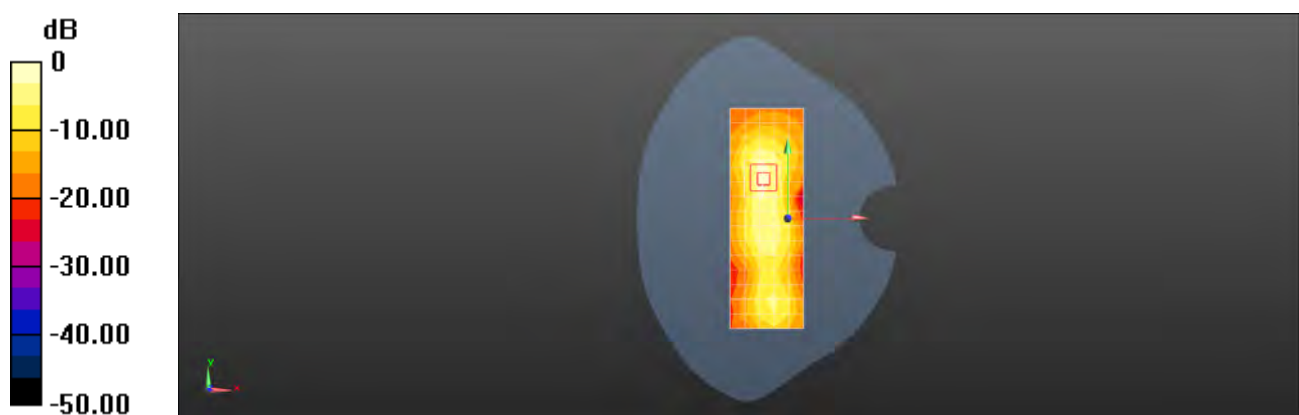
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.585 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.243 W/kg

SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.188 W/kg



0 dB = 0.188 W/kg = -7.26 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 7 20M QPSK 1RB0 21350CH Left cheek Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2560$ MHz; $\sigma = 1.931$ S/m; $\epsilon_r = 38.998$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.298 W/kg

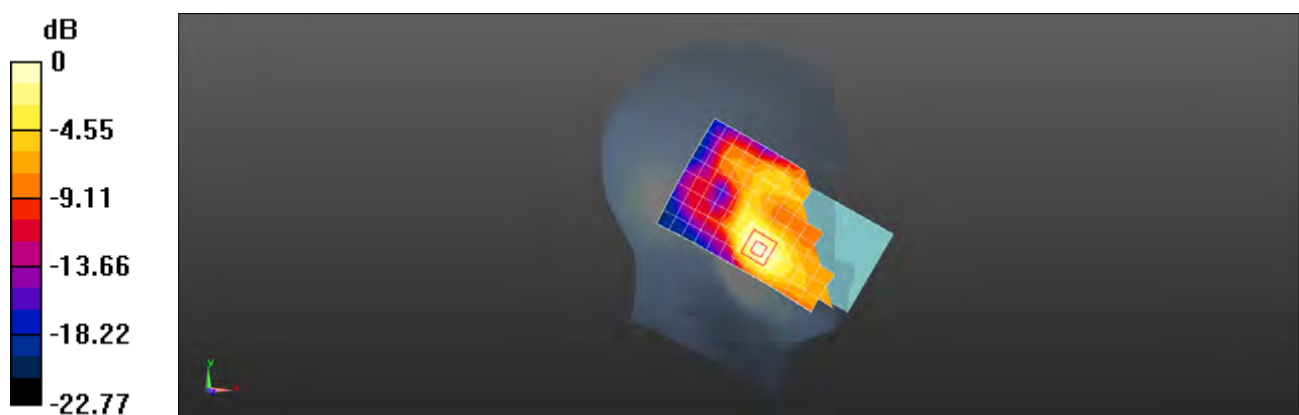
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.010 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.321 W/kg



0 dB = 0.321 W/kg = -4.93 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 7 20M QPSK 1RB0 21350CH Back side 15mm Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2560$ MHz; $\sigma = 1.931$ S/m; $\epsilon_r = 38.998$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.662 W/kg

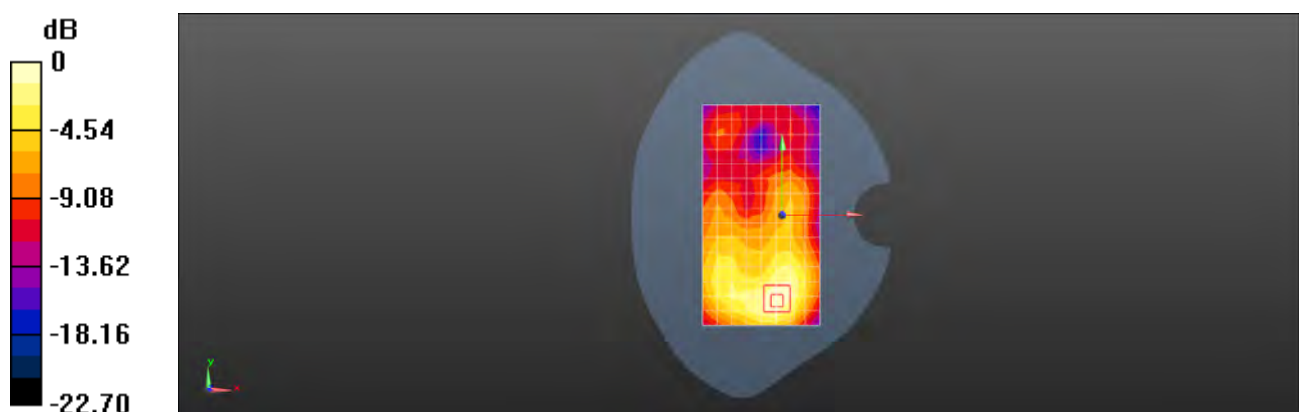
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.910 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.849 W/kg

SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.237 W/kg

Maximum value of SAR (measured) = 0.701 W/kg



0 dB = 0.708 W/kg = -1.54 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 7 20M QPSK 50RB50 20850CH Back side 10mm Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2510$ MHz; $\sigma = 1.872$ S/m; $\epsilon_r = 39.186$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.621 W/kg

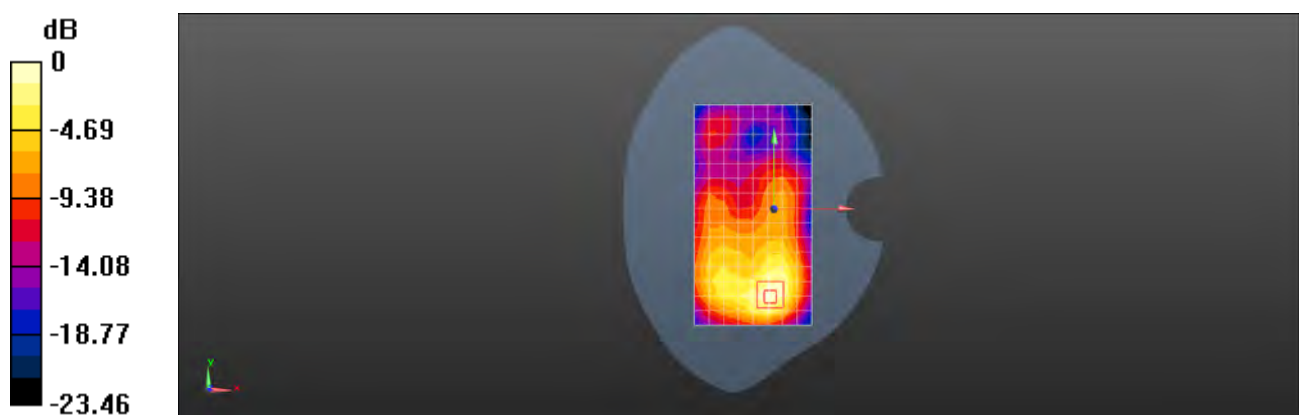
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.597 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.795 W/kg

SAR(1 g) = 0.390 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.623 W/kg



0 dB = 0.623 W/kg = -2.06 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 26 15M QPSK 36RB18 26865CH Left cheek Ant1

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, LTE Band 26 15MHz; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 40.008$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0752 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

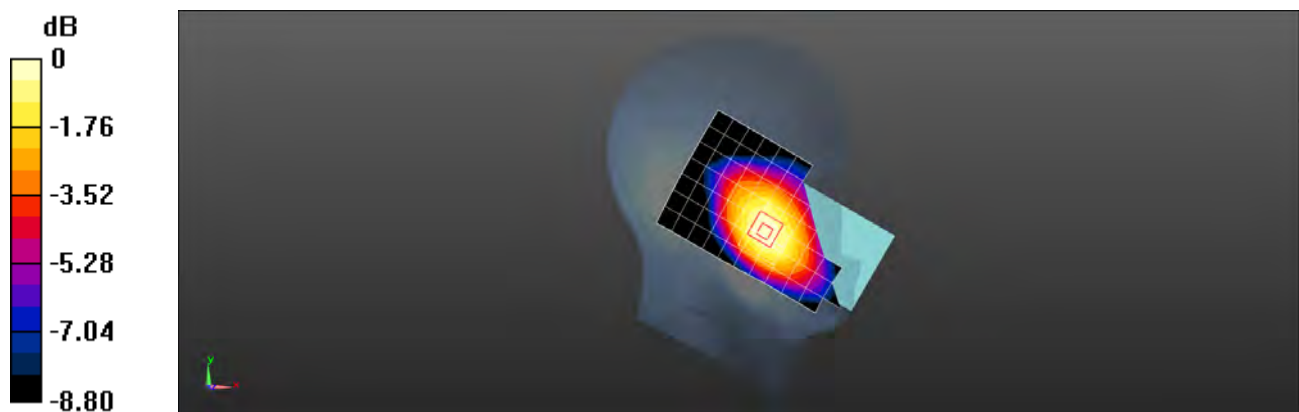
Reference Value = 3.714 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0840 W/kg

SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.063 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0763 W/kg



0 dB = 0.0763 W/kg = -11.17 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 26 15M QPSK 36RB18 26865CH Back side 15mm Ant1

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, LTE Band 26 15MHz; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 40.008$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.201 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

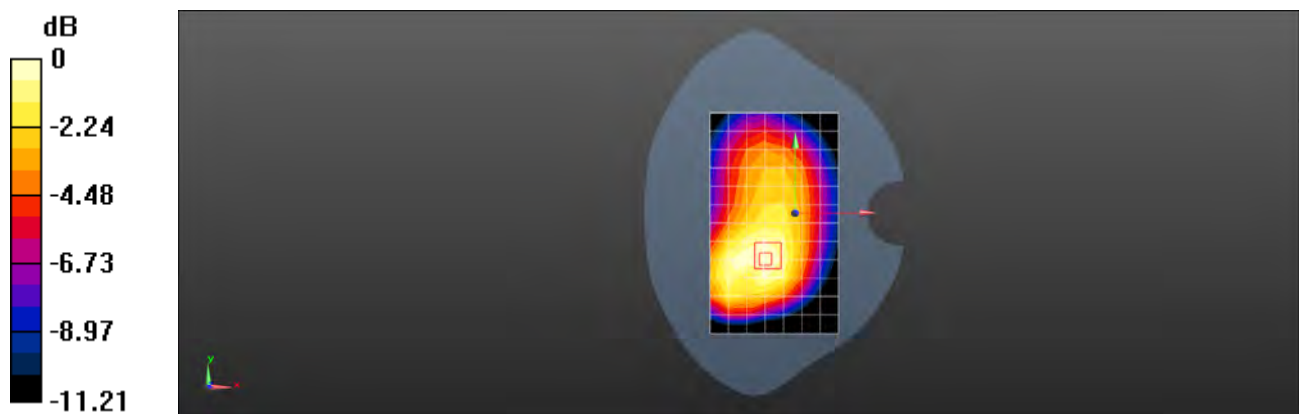
Reference Value = 11.20 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.121 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.201 W/kg



0 dB = 0.201 W/kg = -6.97 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 26 15M QPSK 36RB18 26865CH Back side 10mm Ant1

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, LTE Band 26 15MHz; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 40.008$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.345 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

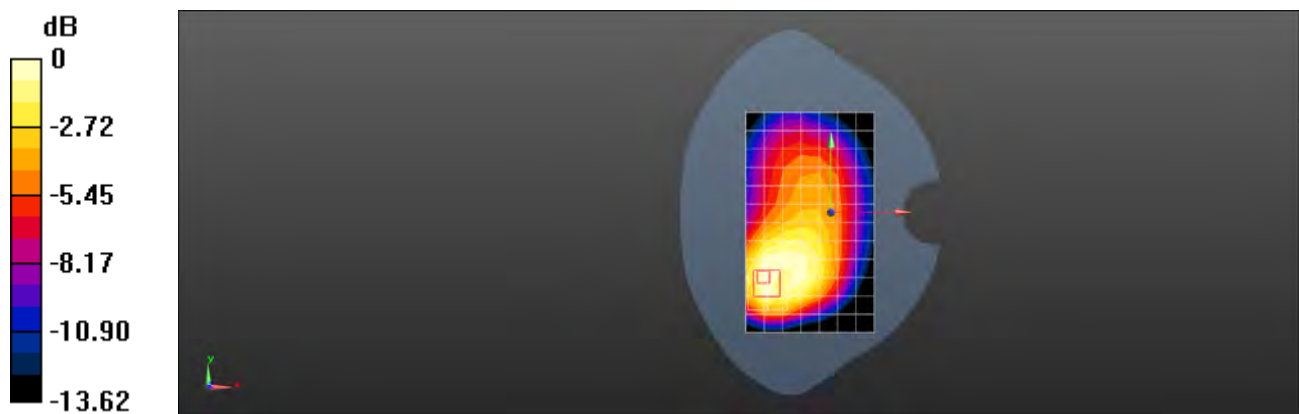
Reference Value = 12.42 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.256 W/kg; SAR(10 g) = 0.154 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.350 W/kg



0 dB = 0.350 W/kg = -4.56 dBW/kg

Test Laboratory: SGS-Lab

M2002J9R LTE Band 26 15M QPSK 36RB18 26865CH Right cheek Ant4

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, LTE Band 26 15MHz; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 40.008$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.03 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

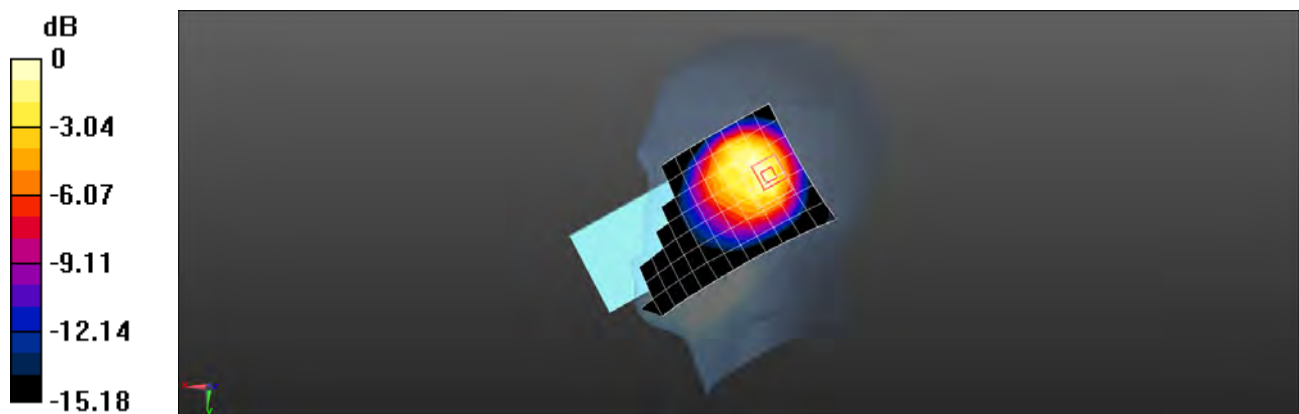
Reference Value = 24.82 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.398 W/kg

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

Test Laboratory: SGS-Lab

M2002J9R LTE Band 26 15M QPSK 36RB39 26865CH Back side 15mm Ant4

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, LTE Band 26 15MHz; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 40.008$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.206 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

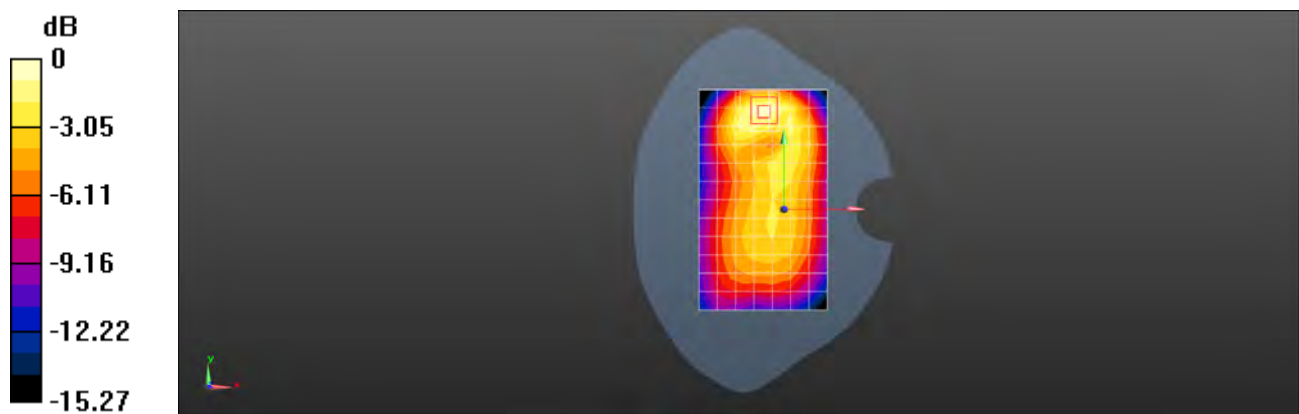
Reference Value = 10.21 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.280 W/kg

SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.102 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.227 W/kg



0 dB = 0.227 W/kg = -6.44 dBW/kg

Test Laboratory: SGS-Lab

M2002J9R LTE Band 26 15M QPSK 36RB39 26865CH Back side 10mm Ant4

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, LTE Band 26 15MHz; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 40.008$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.428 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

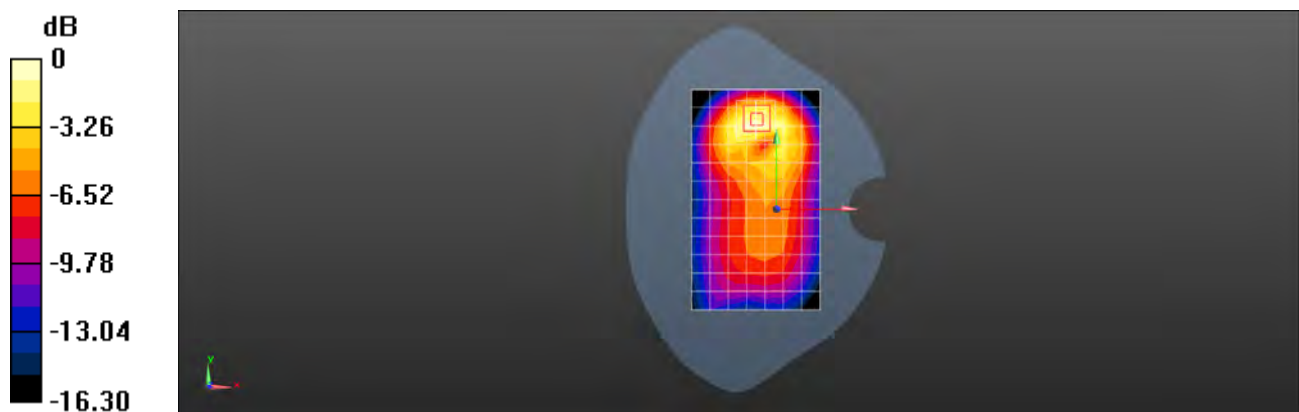
Reference Value = 11.04 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.193 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.476 W/kg



0 dB = 0.476 W/kg = -3.22 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 38 20M QPSK 1RB0 38150CH Right cheek Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2610 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2610$ MHz; $\sigma = 1.983$ S/m; $\epsilon_r = 38.833$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.770 W/kg

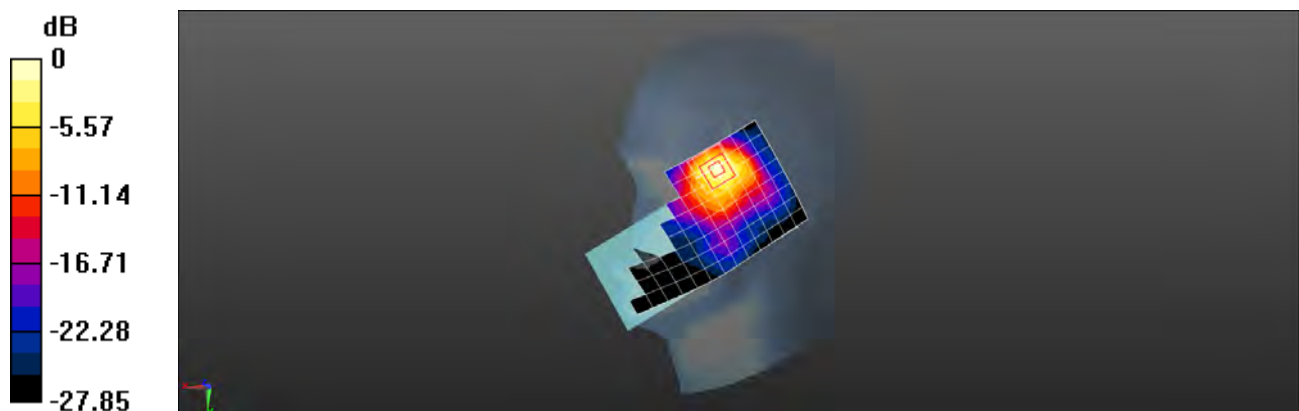
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.388 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.218 W/kg

Maximum value of SAR (measured) = 0.940 W/kg



0 dB = 0.940 W/kg = -0.27 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 38 20M QPSK 1RB0 38000CH Back side 15mm Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2595 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2595$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 38.917$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.332 W/kg

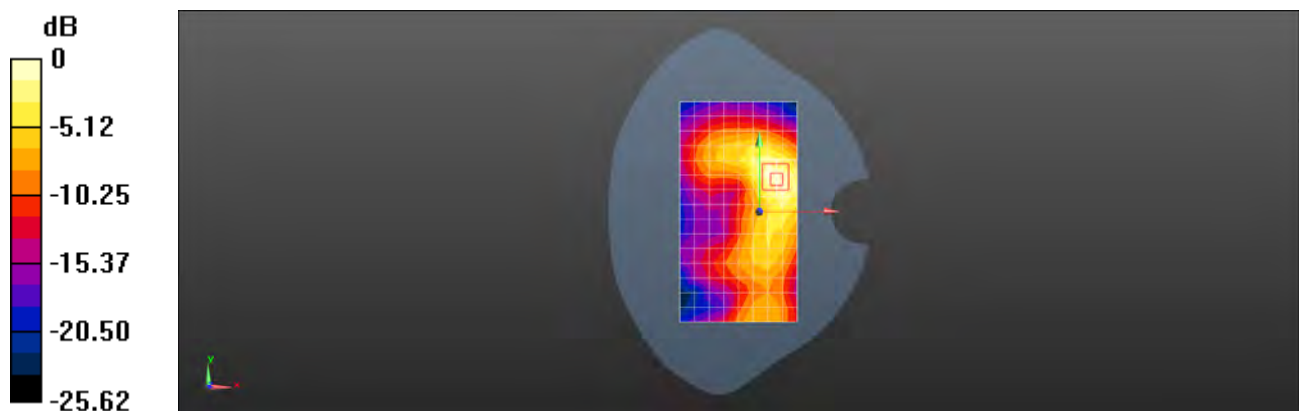
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.369 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.115 W/kg

Maximum value of SAR (measured) = 0.369 W/kg



0 dB = 0.369 W/kg = -4.33 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 38 20M QPSK 1RB0 38150CH Left side 10mm Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2610 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2610$ MHz; $\sigma = 1.983$ S/m; $\epsilon_r = 38.833$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.237 W/kg

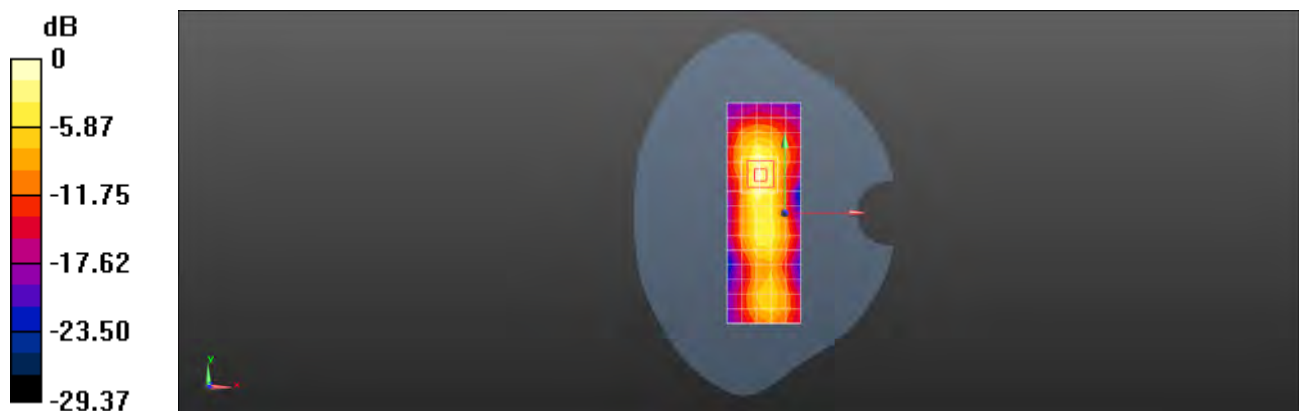
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.396 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.066 W/kg

Maximum value of SAR (measured) = 0.287 W/kg



0 dB = 0.287 W/kg = -5.42 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 38 20M QPSK 1RB50 38000CH Left cheek Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2595 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2595$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 38.917$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.184 W/kg

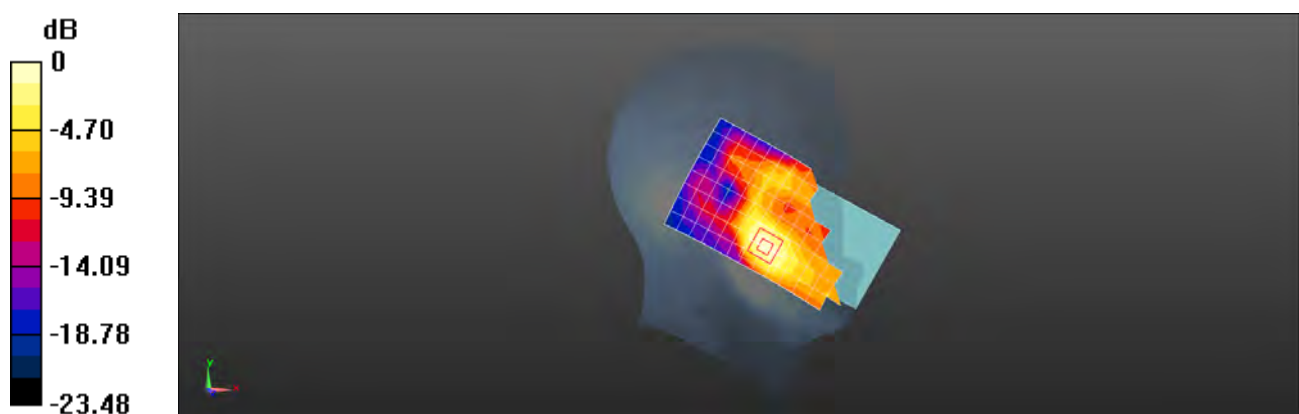
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.944 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.202 W/kg



Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 38 20M QPSK 1RB50 38000CH Back side 15mm Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2595 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2595$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 38.917$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.411 W/kg

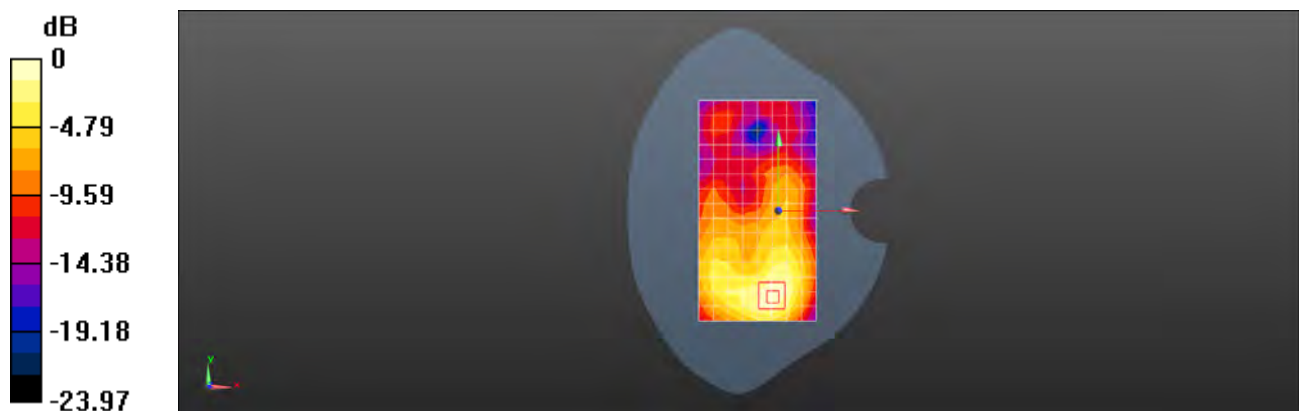
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.235 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.543 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.440 W/kg



0 dB = 0.440 W/kg = -3.57 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 38 20M QPSK 1RB0 37850CH Back side 10mm Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2580 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2580$ MHz; $\sigma = 1.951$ S/m; $\epsilon_r = 38.962$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.618 W/kg

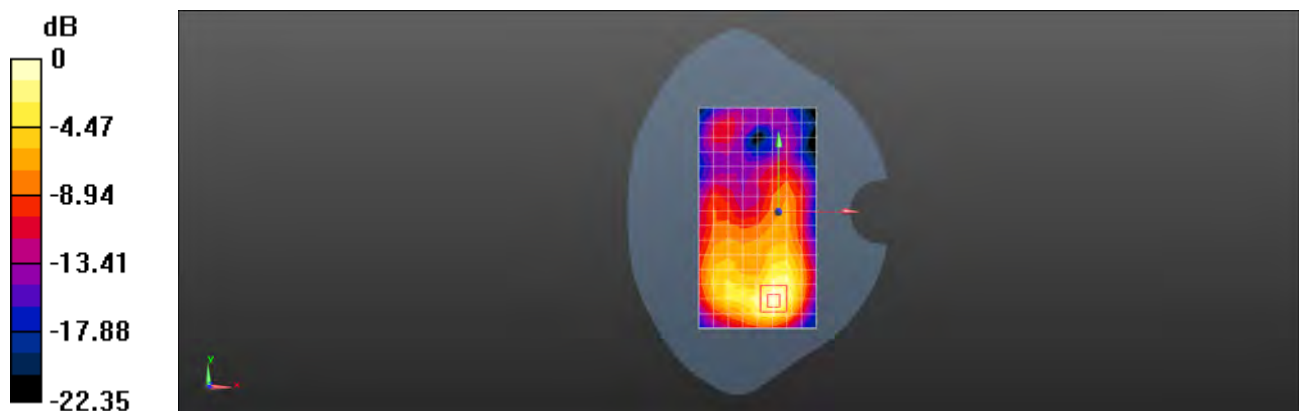
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.158 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.791 W/kg

SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.186 W/kg

Maximum value of SAR (measured) = 0.617 W/kg



0 dB = 0.617 W/kg = -2.10 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 41 20M QPSK 1RB0 40185CH Right cheek Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used (interpolated): $f = 2549.5$ MHz; $\sigma = 1.912$ S/m; $\epsilon_r = 39.061$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.653 W/kg

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

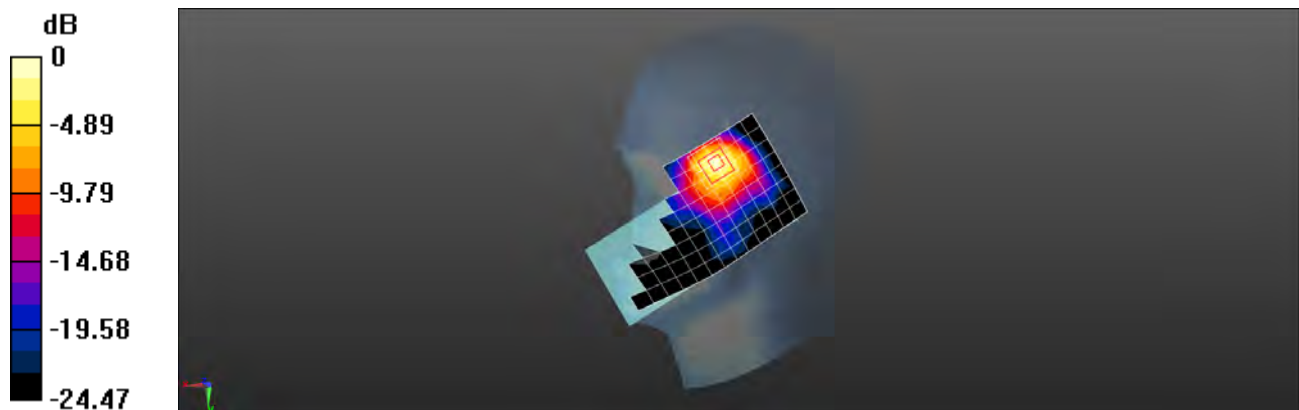
Reference Value = 2.245 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.186 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.776 W/kg



0 dB = 0.776 W/kg = -1.10 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 41 20M QPSK 1RB50 41490CH Back side 15mm Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2680 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2680$ MHz; $\sigma = 2.061$ S/m; $\epsilon_r = 38.565$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.259 W/kg

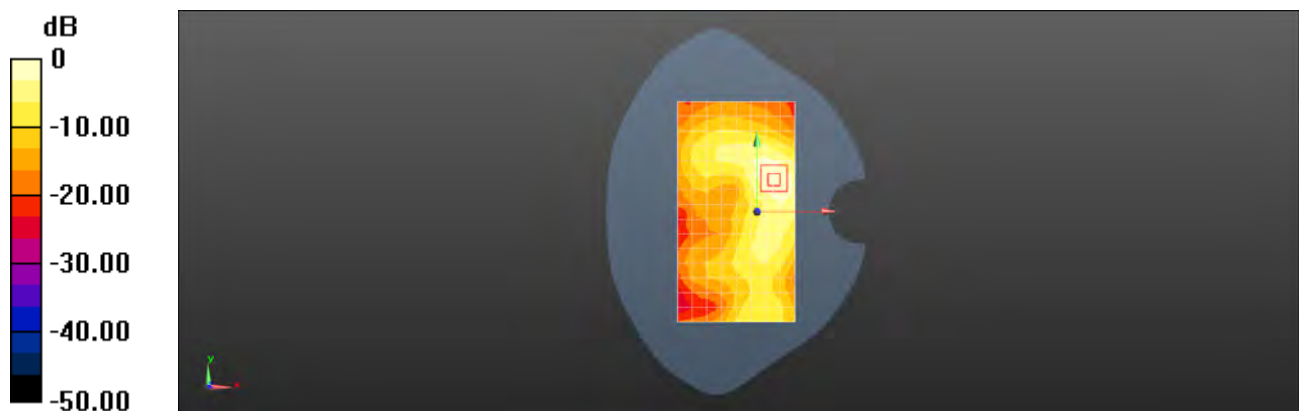
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.480 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.300 W/kg



0 dB = 0.300 W/kg = -5.23 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 41 20M QPSK 50RB25 41490CH Left side 10mm Ant5

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2680 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2680$ MHz; $\sigma = 2.061$ S/m; $\epsilon_r = 38.565$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.200 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.270 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.323 W/kg

SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.244 W/kg



0 dB = 0.244 W/kg = -6.13 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 41 20M QPSK 1RB0 39750CH Left cheek Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050008231

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2506 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2506$ MHz; $\sigma = 1.865$ S/m; $\epsilon_r = 39.205$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.178 W/kg

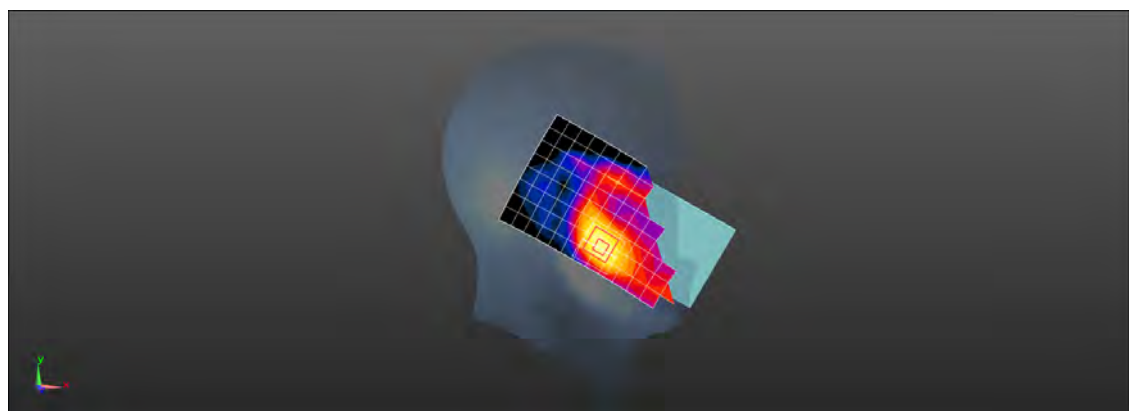
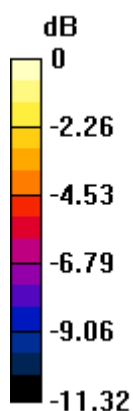
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.383 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.211 W/kg = -6.76 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 41 20M QPSK 1RB0 39750CH Back side 15mm Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2506 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used: $f = 2506$ MHz; $\sigma = 1.865$ S/m; $\epsilon_r = 39.205$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.396 W/kg

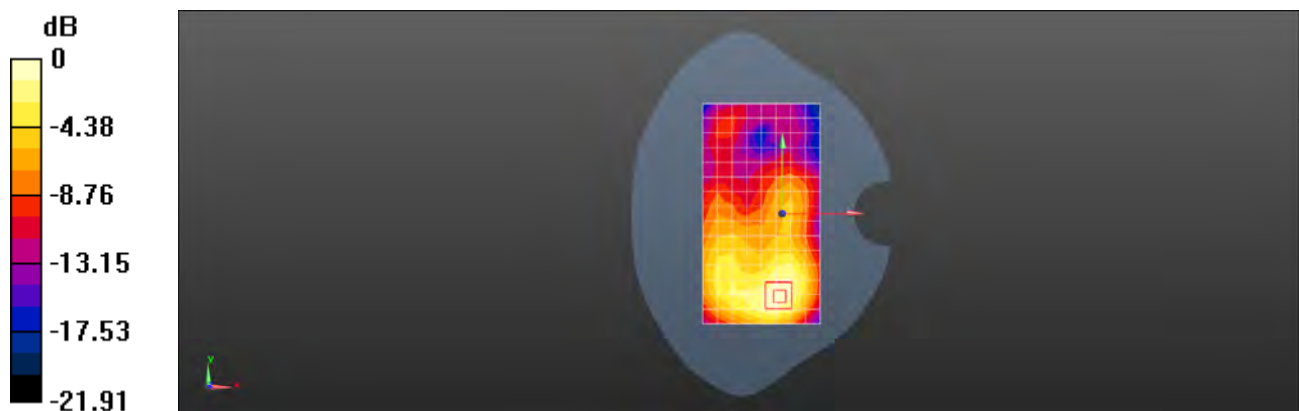
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.812 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.140 W/kg

Maximum value of SAR (measured) = 0.408 W/kg



0 dB = 0.408 W/kg = -3.89 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R LTE Band 41 20M QPSK 50RB25 40185CH Back side 10mm Ant10

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.579

Medium: HSL2600; Medium parameters used (interpolated): $f = 2549.5$ MHz; $\sigma = 1.912$ S/m; $\epsilon_r = 39.061$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.483 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

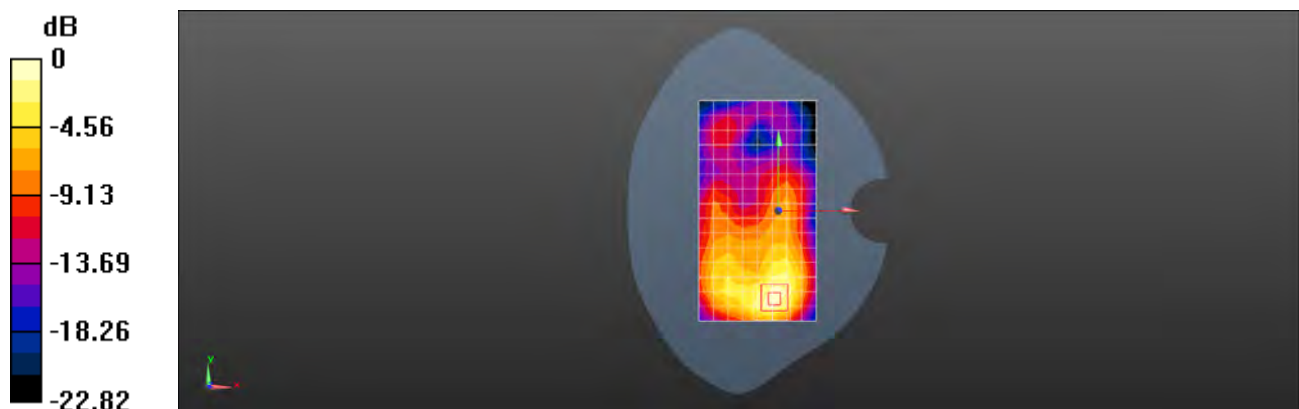
Reference Value = 3.923 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.719 W/kg

SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.167 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.566 W/kg



0 dB = 0.566 W/kg = -2.47 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 2.4G 802.11b 6CH Left cheek Ant8

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.01

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 39.456$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.407 W/kg

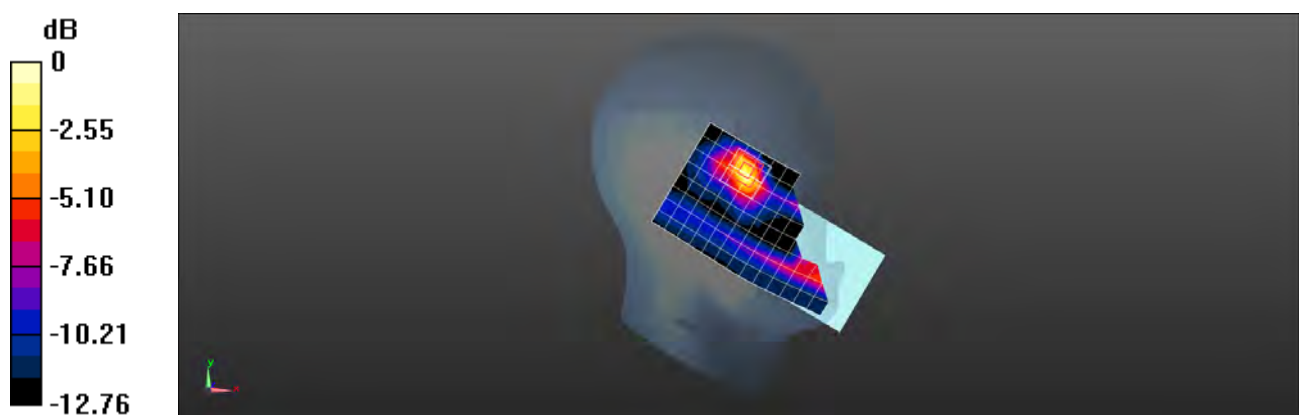
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.905 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.705 W/kg

SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.459 W/kg



0 dB = 0.459 W/kg = -3.38 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 2.4G 802.11b 1CH Back side 15mm Ant8

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2412 MHz;Duty Cycle: 1:1.01

Medium: HSL2450;Medium parameters used: $f = 2412$ MHz; $\sigma = 1.764$ S/m; $\epsilon_r = 39.553$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.216 W/kg

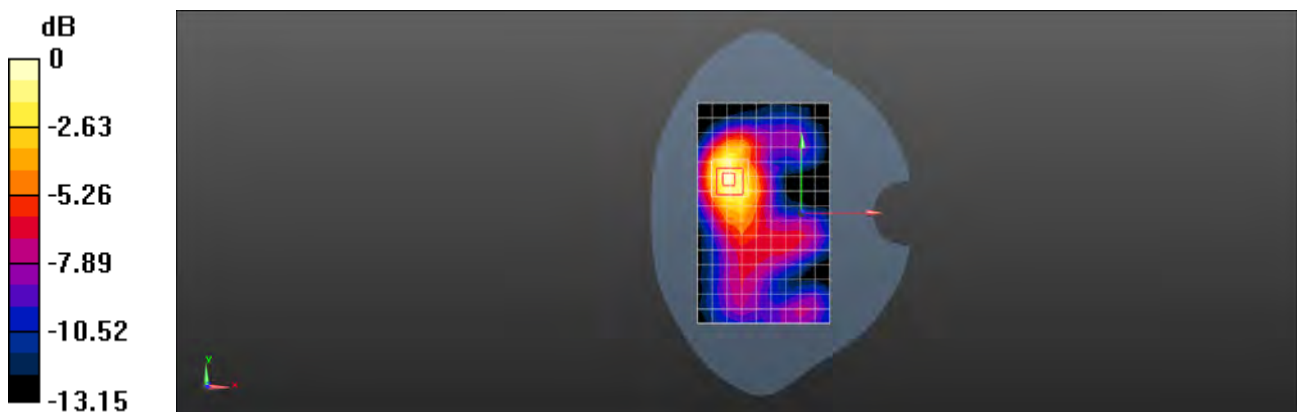
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.460 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.28 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.215 W/kg



0 dB = 0.215 W/kg = -6.68 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 2.4G 802.11b 1CH Right side 10mm Ant8

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2412 MHz;Duty Cycle: 1:1.01

Medium: HSL2450;Medium parameters used: $f = 2412$ MHz; $\sigma = 1.764$ S/m; $\epsilon_r = 39.553$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.484 W/kg

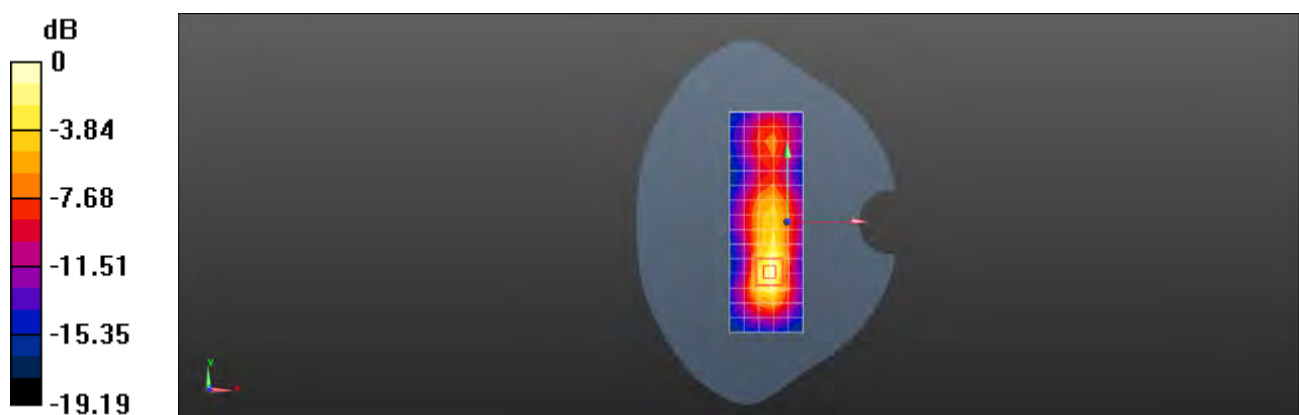
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.501 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.496 W/kg



0 dB = 0.496 W/kg = -3.05 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 2.4G 802.11b 6CH Left cheek MIMO

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.015

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 39.456$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.495 W/kg

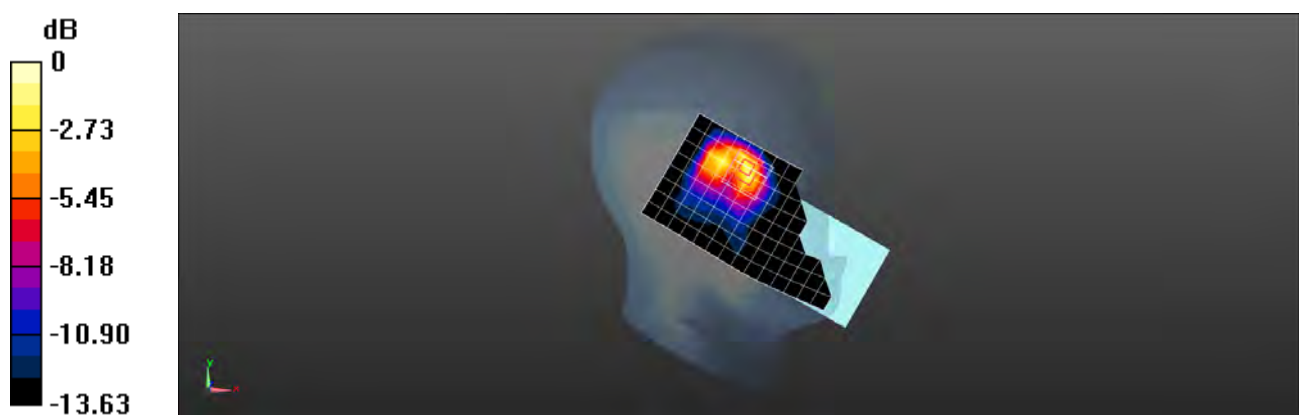
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.855 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.300 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.601 W/kg



0 dB = 0.601 W/kg = -2.21 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 2.4G 802.11b 6CH Back side 15mm MIMO

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.015

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 39.456$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.311 W/kg

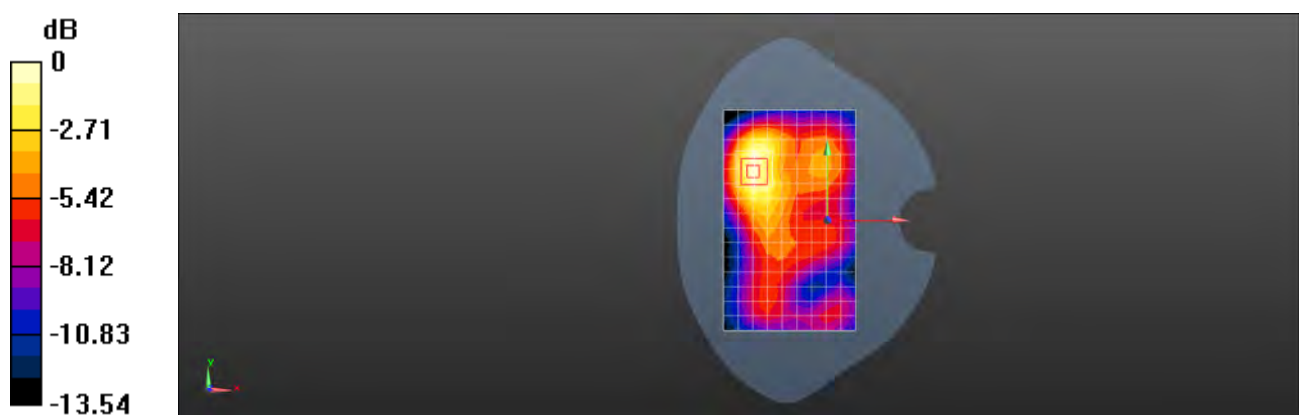
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.689 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.308 W/kg



0 dB = 0.308 W/kg = -5.11 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 2.4G 802.11b 6CH Right side 10mm MIMO

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.015

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 39.456$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.94 W/kg

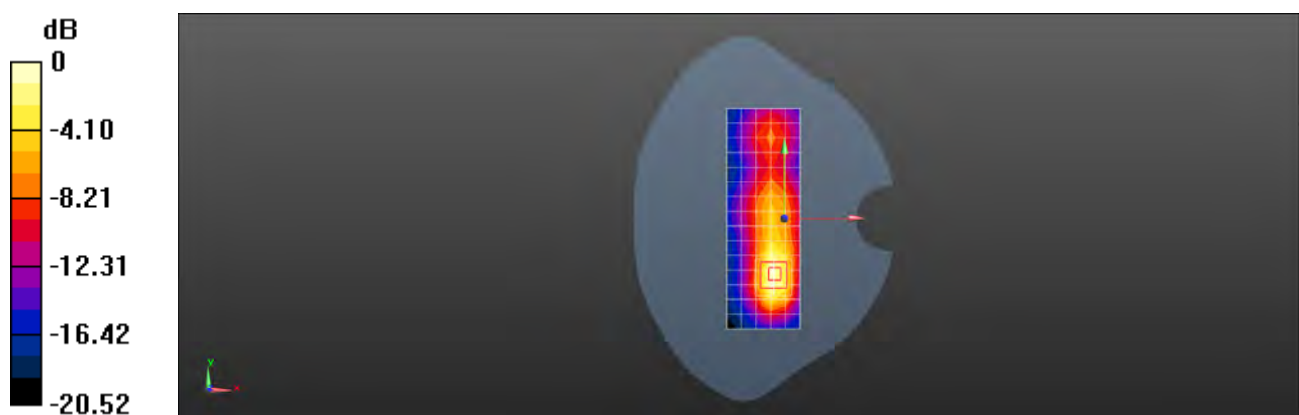
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.65 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.102 W/kg

Maximum value of SAR (measured) = 0.89 W/kg



0 dB = 0.89 W/kg = -0.51 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 5G 802.11a 52CH Left cheek Ant7

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5260 MHz;Duty Cycle: 1:1.034

Medium: HSL5G;Medium parameters used: $f = 5260$ MHz; $\sigma = 4.729$ S/m; $\epsilon_r = 36.658$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.882 W/kg

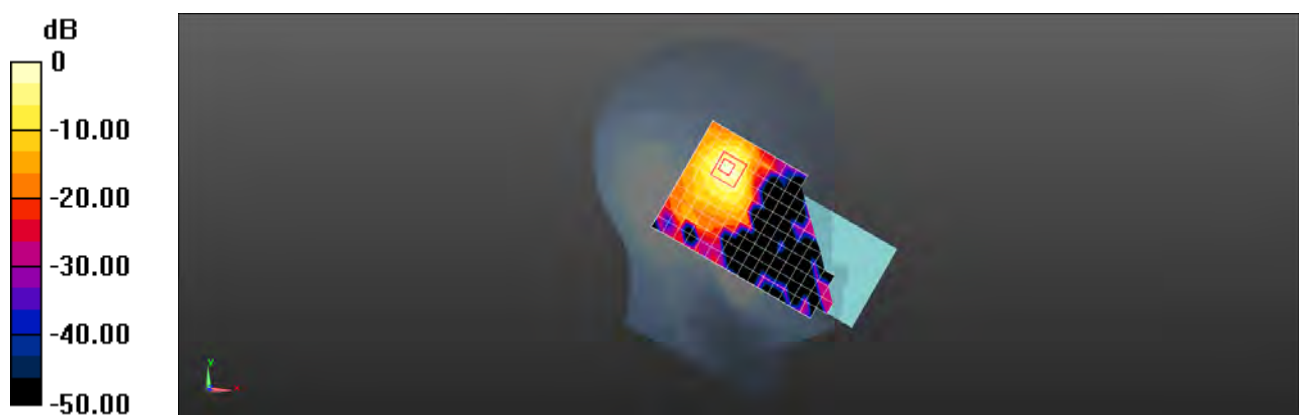
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.141 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 5G 802.11a 120CH Back side 15mm Ant7

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5600 MHz;Duty Cycle: 1:1.034

Medium: HSL5G;Medium parameters used: $f = 5600$ MHz; $\sigma = 5.093$ S/m; $\epsilon_r = 35.786$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.533 W/kg

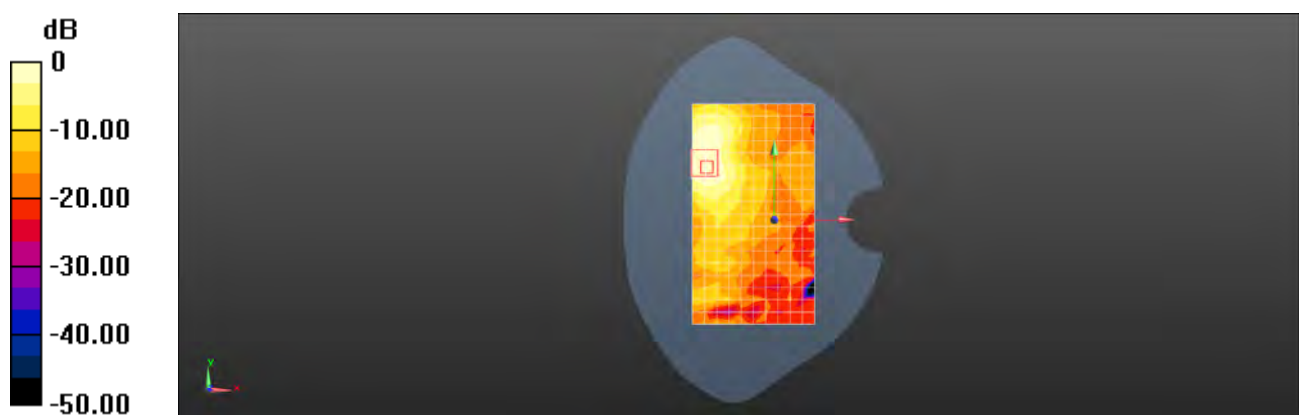
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.454 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.124 W/kg

Maximum value of SAR (measured) = 0.537 W/kg



0 dB = 0.537 W/kg = -2.70 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 5G 802.11a 157CH Back side 10mm Ant7

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5785 MHz;Duty Cycle: 1:1.034

Medium: HSL5G;Medium parameters used: $f = 5785$ MHz; $\sigma = 5.298$ S/m; $\epsilon_r = 35.45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.83, 4.83, 4.83); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.640 W/kg

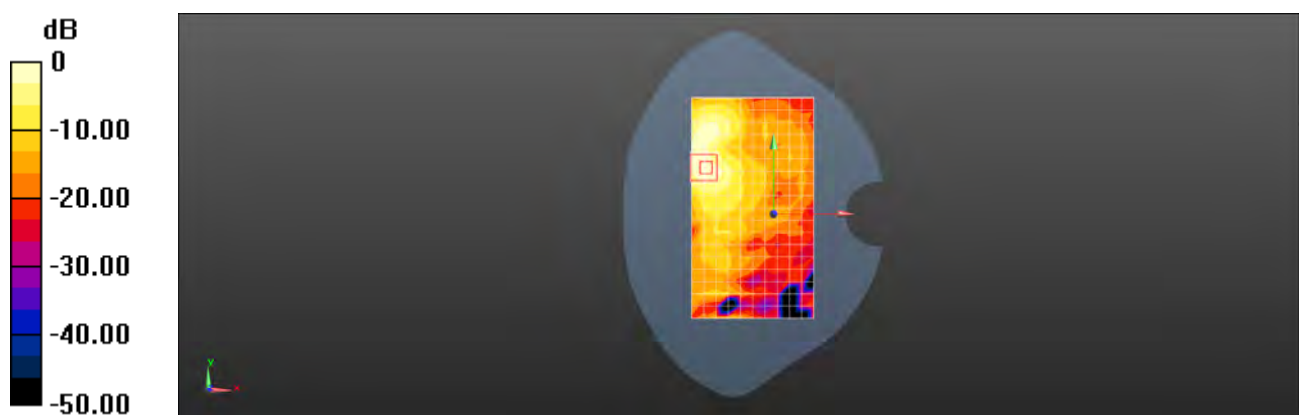
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.717 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.713 W/kg



0 dB = 0.713 W/kg = -1.47 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 5G 802.11a 120CH Back side 0mm Ant7

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5600 MHz;Duty Cycle: 1:1.034

Medium: HSL5G;Medium parameters used: $f = 5600$ MHz; $\sigma = 5.093$ S/m; $\epsilon_r = 35.786$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 3.75 W/kg

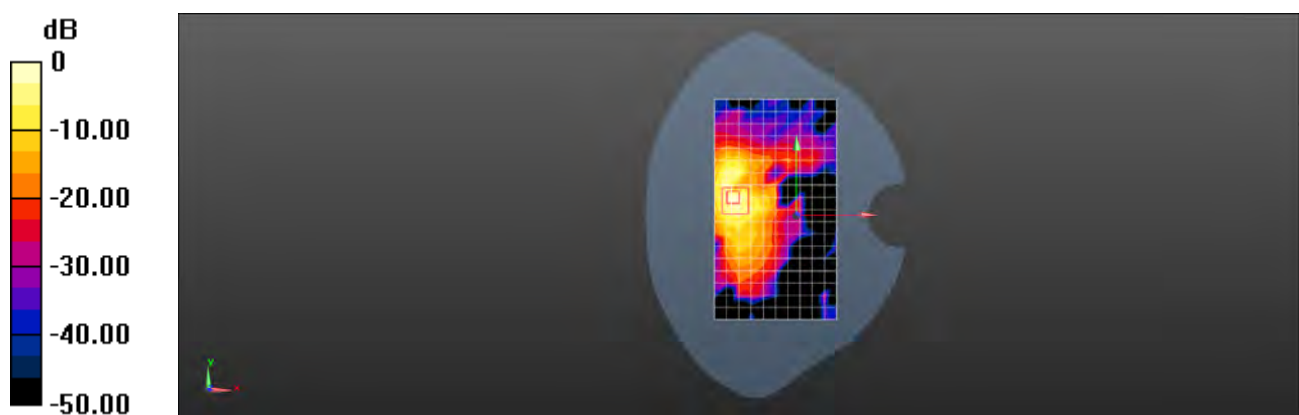
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.066 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 2.22 W/kg; SAR(10 g) = 0.636 W/kg

Maximum value of SAR (measured) = 4.51 W/kg



0 dB = 4.51 W/kg = 6.54 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 5G 802.11a 52CH Left cheek MIMO

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5260 MHz;Duty Cycle: 1:1.025

Medium: HSL5G;Medium parameters used: $f = 5260$ MHz; $\sigma = 4.729$ S/m; $\epsilon_r = 36.658$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.19 W/kg

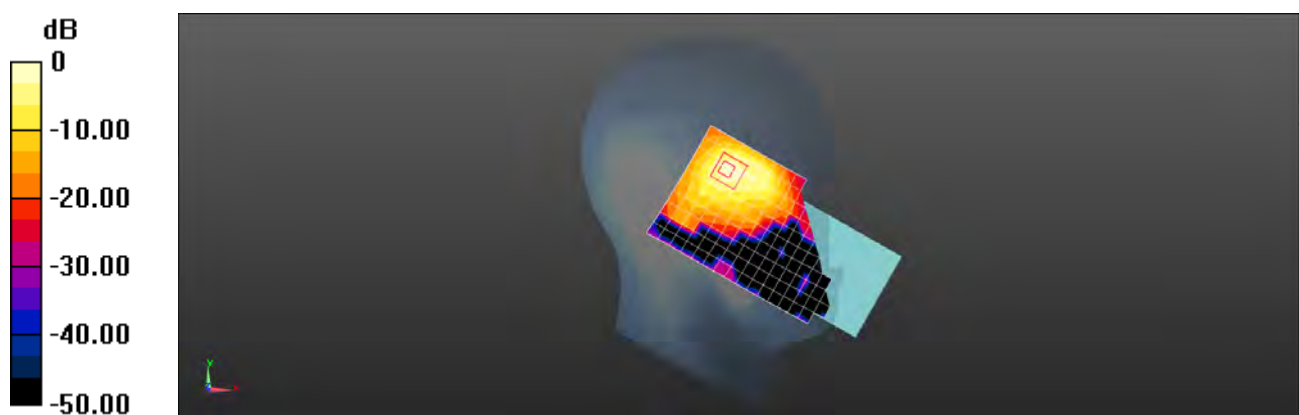
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.423 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.39 W/kg

SAR(1 g) = 0.677 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 5G 802.11a 52CH Back side 15mm MIMO

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5260 MHz;Duty Cycle: 1:1.025

Medium: HSL5G;Medium parameters used: $f = 5260$ MHz; $\sigma = 4.729$ S/m; $\epsilon_r = 36.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.688 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.584 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.771 W/kg



0 dB = 0.771 W/kg = -1.13 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 5G 802.11a 157CH Back side 10mm MIMO

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5785 MHz; Duty Cycle: 1:1.025

Medium: HSL5G; Medium parameters used: $f = 5785$ MHz; $\sigma = 5.298$ S/m; $\epsilon_r = 35.45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.83, 4.83, 4.83); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.53 W/kg

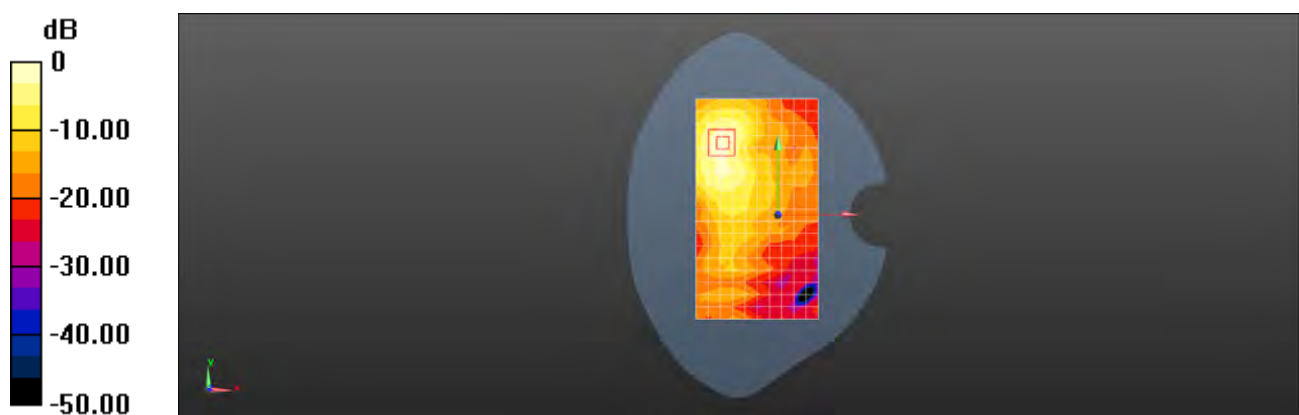
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.768 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 0.851 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 1.66 W/kg



0 dB = 1.66 W/kg = 2.20 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R WIFI 5G 802.11a 120CH Right side 0mm MIMO

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5600 MHz;Duty Cycle: 1:1.025

Medium: HSL5G;Medium parameters used: $f = 5600$ MHz; $\sigma = 5.093$ S/m; $\epsilon_r = 35.786$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn896; Calibrated: 2019-09-18
- Phantom: SAM 1; Type: SAM; Serial: 1640
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (6x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.9 W/kg

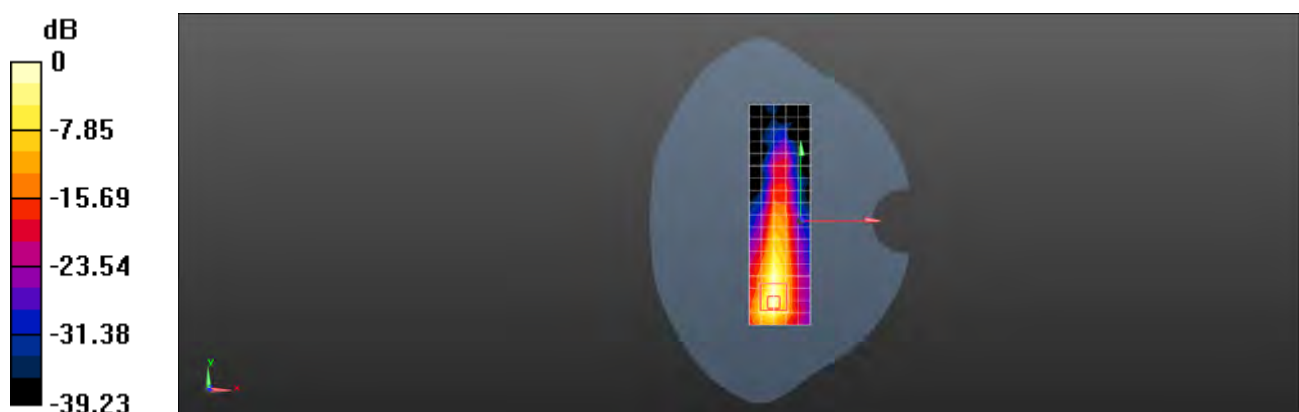
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.59 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 43.2 W/kg

SAR(1 g) = 6.19 W/kg; SAR(10 g) = 1.83 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



0 dB = 15.0 W/kg = 11.76 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R Bluetooth DH5 39CH Left cheek Ant8

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.301

Medium: HSL2450; Medium parameters used: $f = 2441$ MHz; $\sigma = 1.756$ S/m; $\epsilon_r = 39.429$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Head/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.227 W/kg

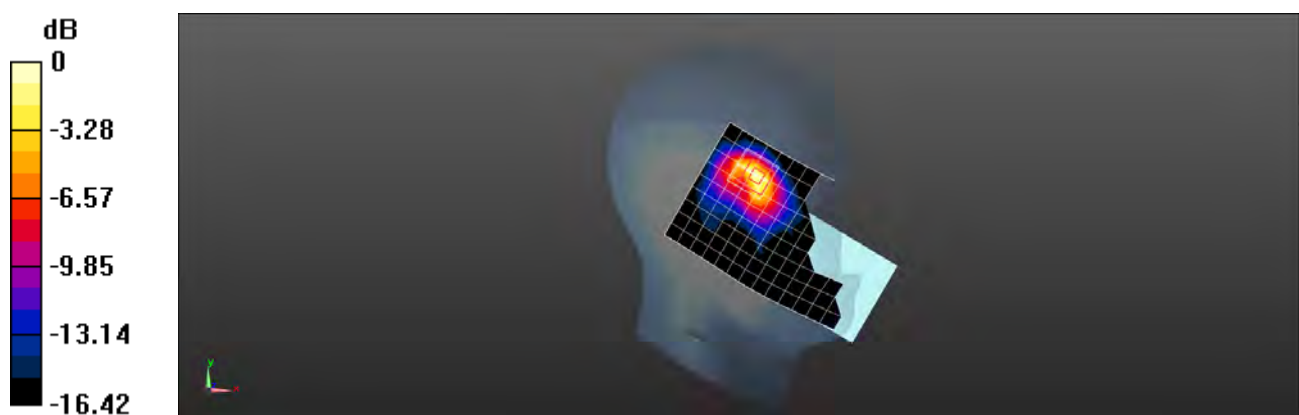
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.083 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.240 W/kg



0 dB = 0.240 W/kg = -6.20 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R Bluetooth DH5 39CH Back side 15mm Ant8

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.301

Medium: HSL2450; Medium parameters used: $f = 2441$ MHz; $\sigma = 1.746$ S/m; $\epsilon_r = 39.429$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0176 W/kg

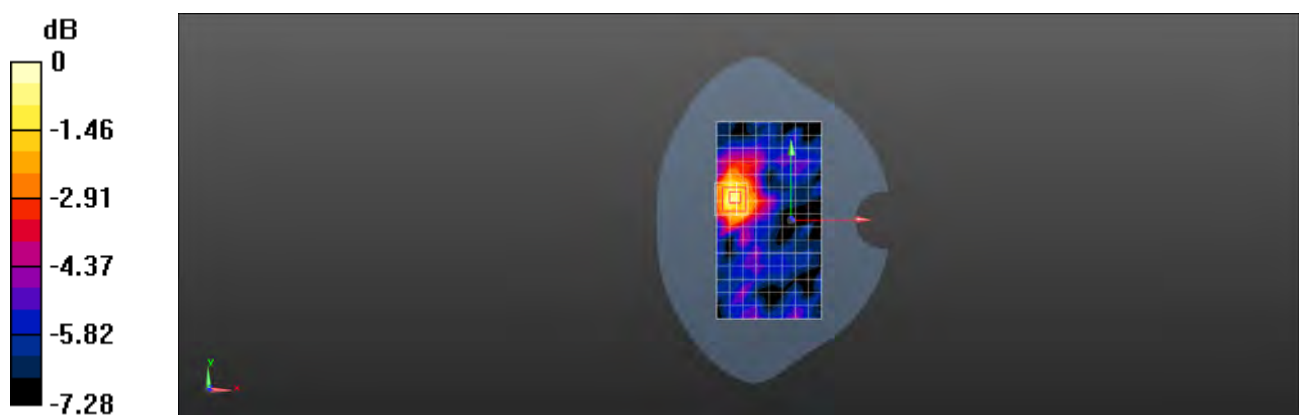
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.564 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0210 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00936 W/kg

Maximum value of SAR (measured) = 0.0183 W/kg



0 dB = 0.0183 W/kg = -17.38 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9R Bluetooth DH5 39CH Right side 10mm Ant8

DUT: M2002J9R; Type: Mobile phone; Serial: 863212050006573

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.301

Medium: HSL2450; Medium parameters used: $f = 2441$ MHz; $\sigma = 1.756$ S/m; $\epsilon_r = 39.429$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0784 W/kg

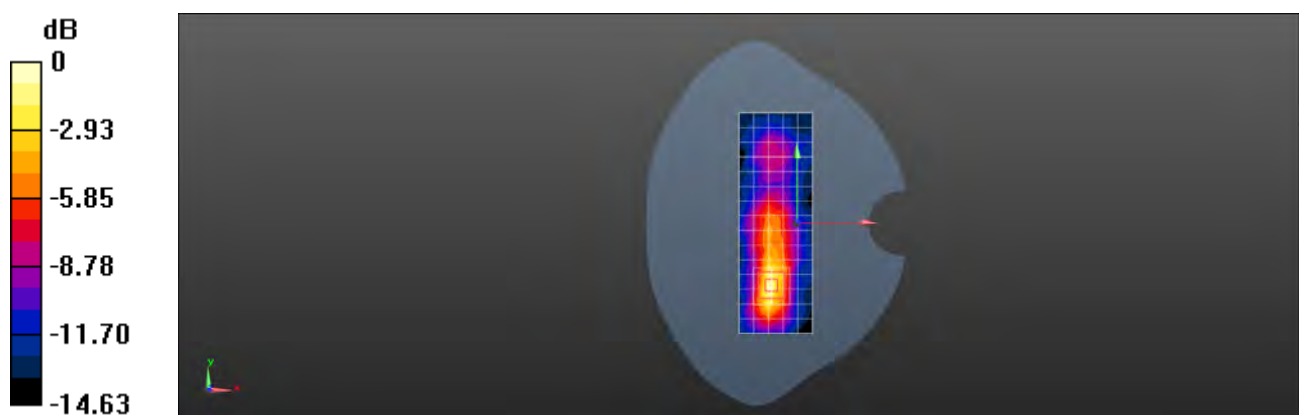
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.663 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.110 W/kg

SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0880 W/kg



0 dB = 0.0880 W/kg = -10.56 dBW/kg



Appendix C

Calibration certificate

| |
|------------------------------|
| 1. Dipole |
| D835V2-SN 4d105(2019-12-17) |
| D1750V2-SN 1149(2019-05-21) |
| D1900V2-SN 5d028(2019-12-17) |
| D2450V2-SN 733(2019-12-17) |
| D2600V2-SN 1125(2019-05-20) |
| D5GHzV2-SN 1165(2019-12-20) |
| 2. DAE |
| DAE4-SN 1267(2019-10-22) |
| DAE4-SN 1428(2020-03-03) |
| DAE4-SN 896(2019-09-18) |
| 3. Probe |
| EX3DV4-SN 3982(2019-09-11) |
| EX3DV4-SN 3923 (2019-10-22) |
| EX3DV4-SN 3793 (2020-05-09) |



In Collaboration with
s p e a g
CALIBRATION LABORATORY



中国认可
国际互认
校准
CALIBRATION
CNAS L0570

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Client **SGS**

Certificate No: **Z19-60472**

CALIBRATION CERTIFICATE

Object: **D835V2 - SN: 4d105**

Calibration Procedure(s): **FF-Z11-003-01**
Calibration Procedures for dipole validation kits

Calibration date: **December 17, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Power Meter NRP2 | 106276 | 11-Apr-19 (CTTL, No.J19X02605) | Apr-20 |
| Power sensor NRP6A | 101369 | 11-Apr-19 (CTTL, No.J19X02605) | Apr-20 |
| Reference Probe EX3DV4 | SN 3617 | 31-Jan-19(SPEAG,No.EX3-3617_Jan19) | Jan-20 |
| DAE4 | SN 1555 | 22-Aug-19(CTTL-SPEAG,No.Z19-60295) | Aug-20 |
| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
| Signal Generator E4438C | MY49071430 | 23-Jan-19 (CTTL, No.J19X00336) | Jan-20 |
| NetworkAnalyzer E5071C | MY46110673 | 24-Jan-19 (CTTL, No.J19X00547) | Jan-20 |

| | Name | Function | Signature |
|----------------|-------------|--------------------|-----------|
| Calibrated by: | Zhao Jing | SAR Test Engineer | |
| Reviewed by: | Lin Hao | SAR Test Engineer | |
| Approved by: | Qi Dianyuan | SAR Project Leader | |

Issued: December 23, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Glossary:

| | |
|-------|--|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM _{x,y,z} |
| N/A | not applicable or not measured |

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|------------------------------|--------------------------|-------------|
| DASY Version | DASY52 | V52.10.3 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 15 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 835 MHz \pm 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------------|----------------|----------------------|
| Nominal Head TSL parameters | 22.0 °C | 41.5 | 0.90 mho/m |
| Measured Head TSL parameters | (22.0 \pm 0.2) °C | 41.4 \pm 6 % | 0.88 mho/m \pm 6 % |
| Head TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Head TSL

| | | |
|---|--------------------|------------------------------|
| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 2.37 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 9.64 W/kg \pm 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 1.55 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 6.29 W/kg \pm 18.7 % (k=2) |



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: ettl@chinattl.com http://www.chinattl.cn

Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| | |
|--------------------------------------|---------------|
| Impedance, transformed to feed point | 49.5Ω- 4.96jΩ |
| Return Loss | - 26.0dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.261 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| | |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

DASY5 Validation Report for Head TSL

Date: 12.17.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d105

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.879$ S/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(9.75, 9.75, 9.75) @ 835 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/22/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.62 V/m; Power Drift = -0.04 dB

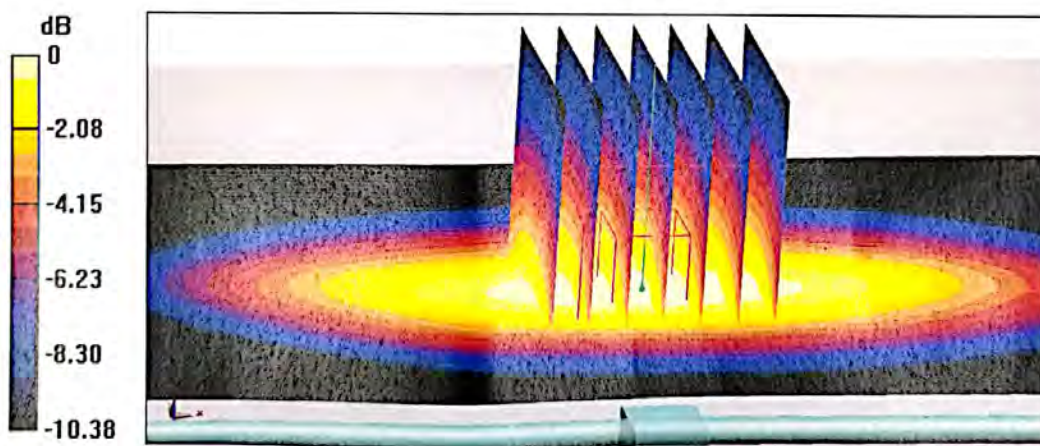
Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.55 W/kg

Smallest distance from peaks to all points 3 dB below = 19.8 mm

Ratio of SAR at M2 to SAR at M1 = 66.2%

Maximum value of SAR (measured) = 3.18 W/kg

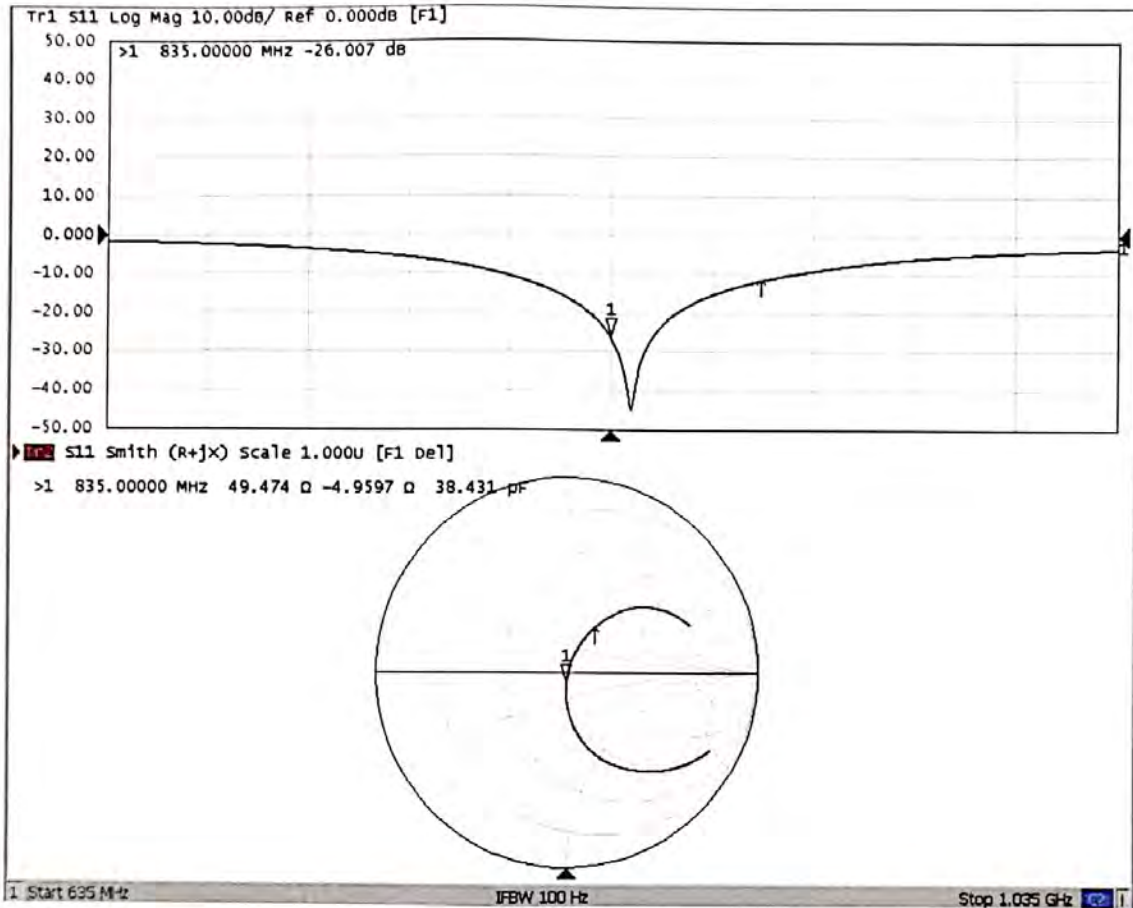


0 dB = 3.18 W/kg = 5.02 dBW/kg



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Impedance Measurement Plot for Head TSL





In Collaboration with
s p e a g
CALIBRATION LABORATORY



中国认可
国际互认
校准
CALIBRATION
CNAS L0570

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Client **SGS**

Certificate No: **Z19-60153**

CALIBRATION CERTIFICATE

Object **D1750V2 - SN: 1149**

Calibration Procedure(s) **FF-Z11-003-01**
Calibration Procedures for dipole validation kits

Calibration date: **May 21, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Power Meter NRP2 | 106277 | 20-Aug-18 (CTTL, No.J18X06862) | Aug-19 |
| Power sensor NRP8S | 104291 | 20-Aug-18 (CTTL, No.J18X06862) | Aug-19 |
| Reference Probe EX3DV4 | SN 3617 | 31-Jan-19(SPEAG,No.EX3-3617_Jan19) | Jan-20 |
| DAE4 | SN 1331 | 06-Feb-19(SPEAG,No.DAE4-1331_Feb19) | Feb-20 |
| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
| Signal Generator E4438C | MY49071430 | 23-Jan-19 (CTTL, No.J19X00336) | Jan-20 |
| NetworkAnalyzer E5071C | MY46110673 | 24-Jan-19 (CTTL, No.J19X00547) | Jan-20 |

| | Name | Function | Signature |
|----------------|-------------|--------------------|-----------|
| Calibrated by: | Zhao Jing | SAR Test Engineer | |
| Reviewed by: | Lin Hao | SAR Test Engineer | |
| Approved by: | Qi Dianyuan | SAR Project Leader | |

Issued: May 25, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Glossary:

| | |
|-------|--|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM _{x,y,z} |
| N/A | not applicable or not measured |

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|------------------------------|--------------------------|--------------|
| DASY Version | DASY52 | 52.10.2.1495 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 1750 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 40.1 | 1.37 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 39.8 ± 6 % | 1.38 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Head TSL

| | | |
|---|--------------------|---------------------------------|
| SAR averaged over 1 cm³ (1 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 9.12 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 36.3 W/kg ± 18.8 % (k=2) |
| SAR averaged over 10 cm³ (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 4.81 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 19.2 W/kg ± 18.7 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 53.4 | 1.49 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 54.2 ± 6 % | 1.48 mho/m ± 6 % |
| Body TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Body TSL

| | | |
|---|--------------------|---------------------------------|
| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 9.34 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 37.6 W/kg ± 18.8 % (k=2) |
| SAR averaged over 10 cm³ (10 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 4.90 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 19.7 W/kg ± 18.7 % (k=2) |



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| | |
|--------------------------------------|----------------|
| Impedance, transformed to feed point | 47.6Ω+ 0.70 jΩ |
| Return Loss | - 31.8 dB |

Antenna Parameters with Body TSL

| | |
|--------------------------------------|----------------|
| Impedance, transformed to feed point | 44.9Ω+ 0.29 jΩ |
| Return Loss | - 25.3 dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.082 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| | |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|



DASY5 Validation Report for Head TSL

Date: 05.21.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1149

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.379$ S/m; $\epsilon_r = 39.84$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(8.38, 8.38, 8.38) @ 1750 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2/6/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

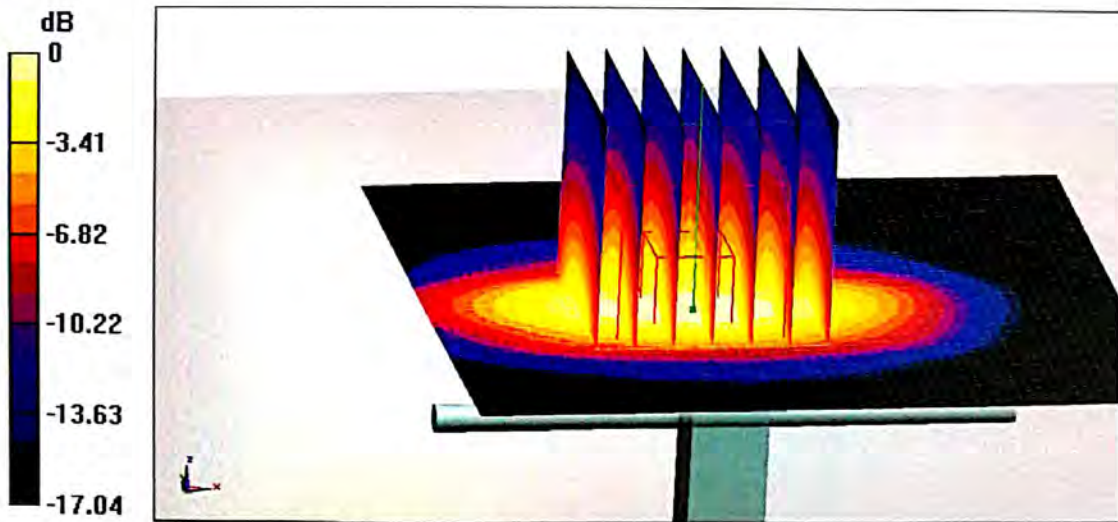
$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 88.07 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.12 W/kg; SAR(10 g) = 4.81 W/kg

Maximum value of SAR (measured) = 14.2 W/kg

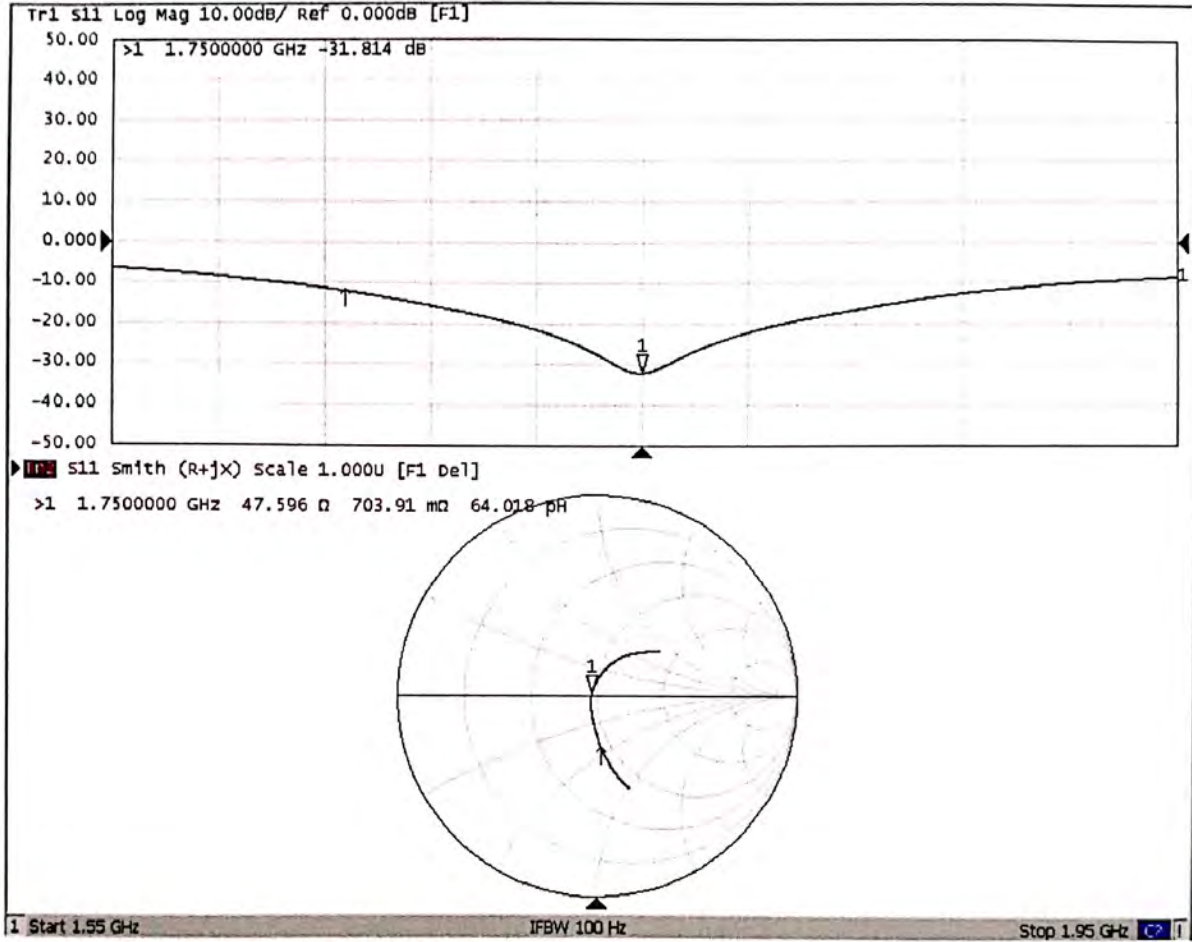


0 dB = 14.2 W/kg = 11.52 dBW/kg



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Impedance Measurement Plot for Head TSL





Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

DASY5 Validation Report for Body TSL

Date: 05.21.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1149

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.482$ S/m; $\epsilon_r = 54.22$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(8.03, 8.03, 8.03) @ 1750 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2/6/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

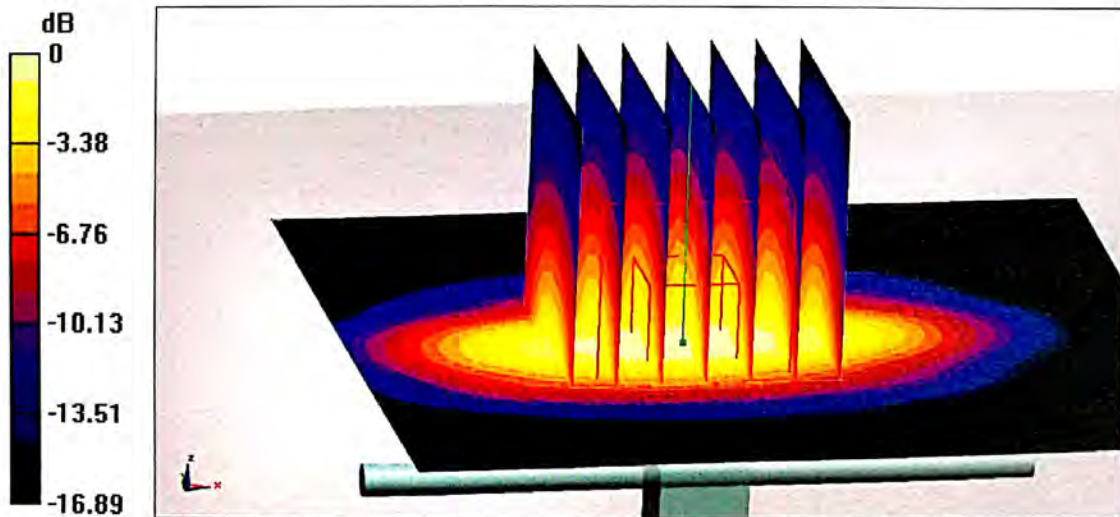
$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 93.60 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.9 W/kg

Maximum value of SAR (measured) = 14.6 W/kg

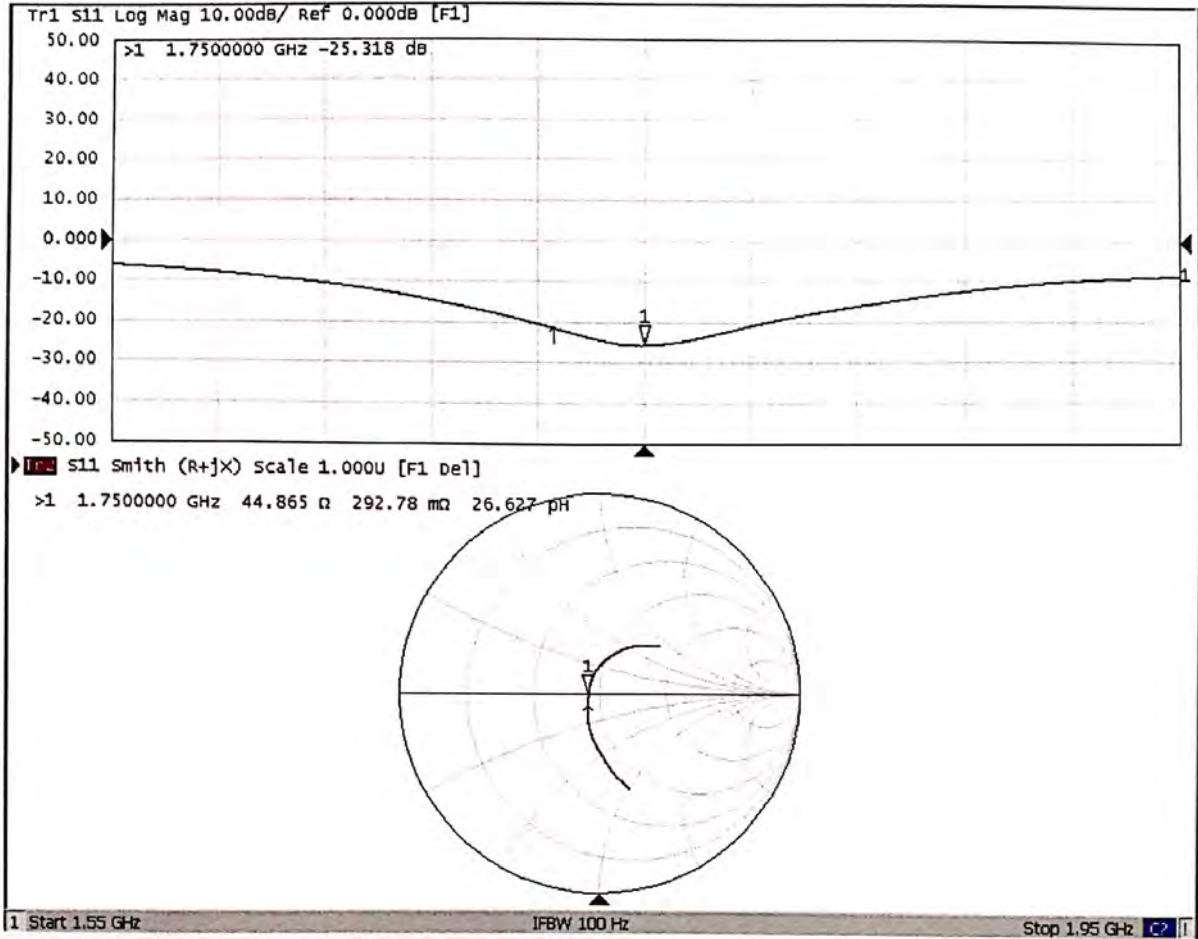


0 dB = 14.6 W/kg = 11.64 dBW/kg



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Impedance Measurement Plot for Body TSL





In Collaboration with
s p e a g
CALIBRATION LABORATORY



中国认可
国际互认
校准
CALIBRATION
CNAS L0570

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Client **SGS**

Certificate No: **Z19-60473**

CALIBRATION CERTIFICATE

Object **D1900V2 - SN: 5d028**

Calibration Procedure(s) **FF-Z11-003-01**
Calibration Procedures for dipole validation kits

Calibration date: **December 17, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Power Meter NRP2 | 106276 | 11-Apr-19 (CTTL, No.J19X02605) | Apr-20 |
| Power sensor NRP6A | 101369 | 11-Apr-19 (CTTL, No.J19X02605) | Apr-20 |
| Reference Probe EX3DV4 | SN 3617 | 31-Jan-19(SPEAG,No.EX3-3617_Jan19) | Jan-20 |
| DAE4 | SN 1555 | 22-Aug-19(CTTL-SPEAG,No.Z19-60295) | Aug-20 |
| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
| Signal Generator E4438C | MY49071430 | 23-Jan-19 (CTTL, No.J19X00336) | Jan-20 |
| NetworkAnalyzer E5071C | MY46110673 | 24-Jan-19 (CTTL, No.J19X00547) | Jan-20 |

| | Name | Function | Signature |
|----------------|--------------------|--------------------|-----------|
| Calibrated by: | Zhao Jing | SAR Test Engineer | |
| Reviewed by: | Lin Hao | SAR Test Engineer | |
| Approved by: | Qi Dianyuan | SAR Project Leader | |

Issued: December 23, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



lossary:

| | |
|-------|--|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM _{x,y,z} |
| N/A | not applicable or not measured |

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|------------------------------|--------------------------|-------------|
| DASY Version | DASY52 | V52.10.3 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 1900 MHz \pm 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------------|----------------|----------------------|
| Nominal Head TSL parameters | 22.0 °C | 40.0 | 1.40 mho/m |
| Measured Head TSL parameters | (22.0 \pm 0.2) °C | 40.5 \pm 6 % | 1.39 mho/m \pm 6 % |
| Head TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Head TSL

| | | |
|--|--------------------|------------------------------|
| SAR averaged over 1 cm^3 (1 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 9.75 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 39.3 W/kg \pm 18.8 % (k=2) |
| SAR averaged over 10 cm^3 (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 5.02 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 20.2 W/kg \pm 18.7 % (k=2) |



Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| | |
|--------------------------------------|---------------|
| Impedance, transformed to feed point | 51.2Ω+ 7.80jΩ |
| Return Loss | - 22.2dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.064 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| | |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

DASY5 Validation Report for Head TSL

Date: 12.17.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d028

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 40.48$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(8.14, 8.14, 8.14) @ 1900 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/22/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 97.62 V/m; Power Drift = 0.02 dB

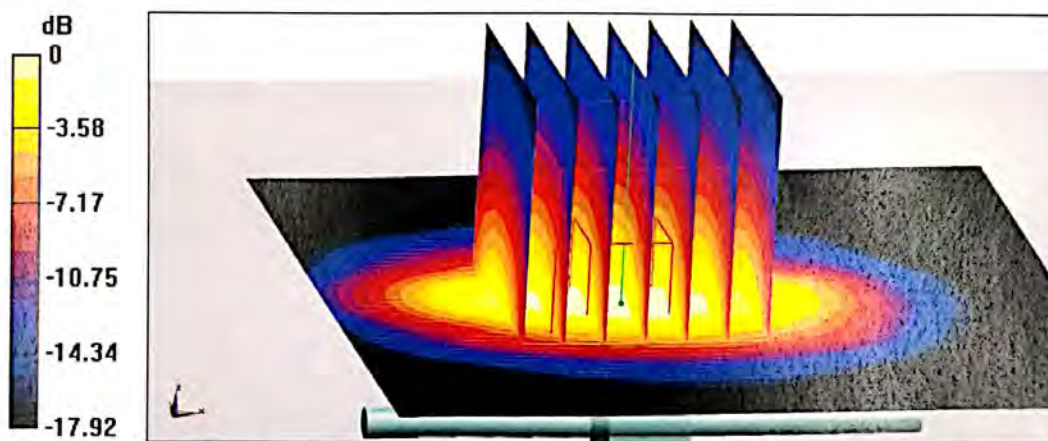
Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 9.75 W/kg; SAR(10 g) = 5.02 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 15.5 W/kg



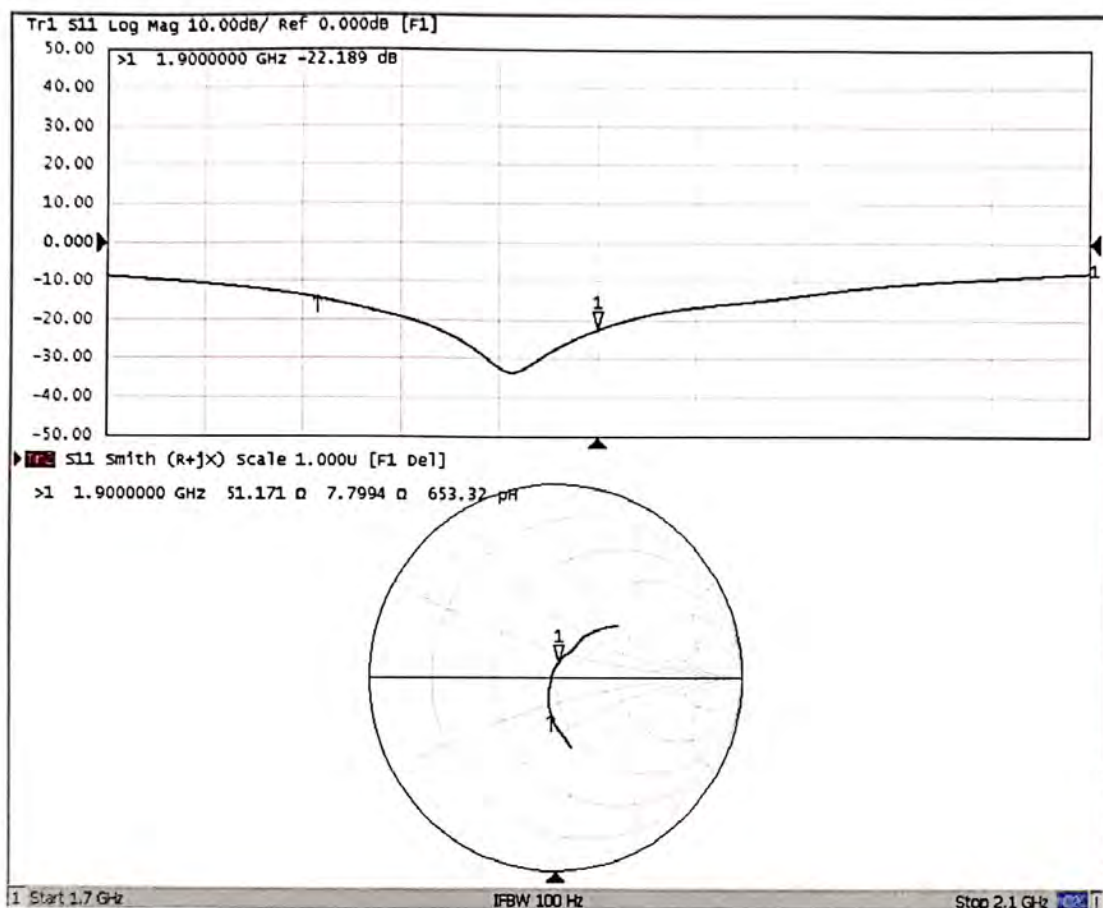
0 dB = 15.5 W/kg = 11.90 dBW/kg



In Collaboration with
s p e a g
CALIBRATION LABORATORY

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Impedance Measurement Plot for Head TSL





In Collaboration with
s p e a g
CALIBRATION LABORATORY



中国认可
国际互认
校准
CALIBRATION
CNAS L0570

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Client

SGS

Certificate No: Z19-60474

CALIBRATION CERTIFICATE

Object: D2450V2 - SN: 733

Calibration Procedure(s): FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: December 17, 2019

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Power Meter NRP2 | 106276 | 11-Apr-19 (CTTL, No.J19X02605) | Apr-20 |
| Power sensor NRP6A | 101369 | 11-Apr-19 (CTTL, No.J19X02605) | Apr-20 |
| Reference Probe EX3DV4 | SN 3617 | 31-Jan-19(SPEAG,No.EX3-3617_Jan19) | Jan-20 |
| DAE4 | SN 1555 | 22-Aug-19(CTTL-SPEAG,No.Z19-60295) | Aug-20 |
| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
| Signal Generator E4438C | MY49071430 | 23-Jan-19 (CTTL, No.J19X00336) | Jan-20 |
| NetworkAnalyzer E5071C | MY46110673 | 24-Jan-19 (CTTL, No.J19X00547) | Jan-20 |

| | Name | Function | Signature |
|----------------|-------------|--------------------|-----------|
| Calibrated by: | Zhao Jing | SAR Test Engineer | |
| Reviewed by: | Lin Hao | SAR Test Engineer | |
| Approved by: | Qi Dianyuan | SAR Project Leader | |

Issued: December 23, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



In Collaboration with

s p e a g

CALIBRATION LABORATORY

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Glossary:

| | |
|-------|--|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM _{x,y,z} |
| N/A | not applicable or not measured |

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|------------------------------|--------------------------|-------------|
| DASY Version | DASY52 | V52.10.3 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 2450 MHz \pm 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------------|----------------|----------------------|
| Nominal Head TSL parameters | 22.0 °C | 39.2 | 1.80 mho/m |
| Measured Head TSL parameters | (22.0 \pm 0.2) °C | 39.0 \pm 6 % | 1.77 mho/m \pm 6 % |
| Head TSL temperature change during test | <1.0 °C | --- | --- |

SAR result with Head TSL

| | | |
|---|--------------------|------------------------------|
| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 12.9 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 51.9 W/kg \pm 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 5.92 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 23.8 W/kg \pm 18.7 % (k=2) |



Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| | |
|--------------------------------------|----------------|
| Impedance, transformed to feed point | 52.2Ω+ 3.88 jΩ |
| Return Loss | - 27.2dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.018 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| | |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|



DASY5 Validation Report for Head TSL

Date: 12.17.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 733

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.772$ S/m; $\epsilon_r = 39.01$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.62, 7.62, 7.62) @ 2450 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/22/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.5 V/m; Power Drift = -0.07 dB

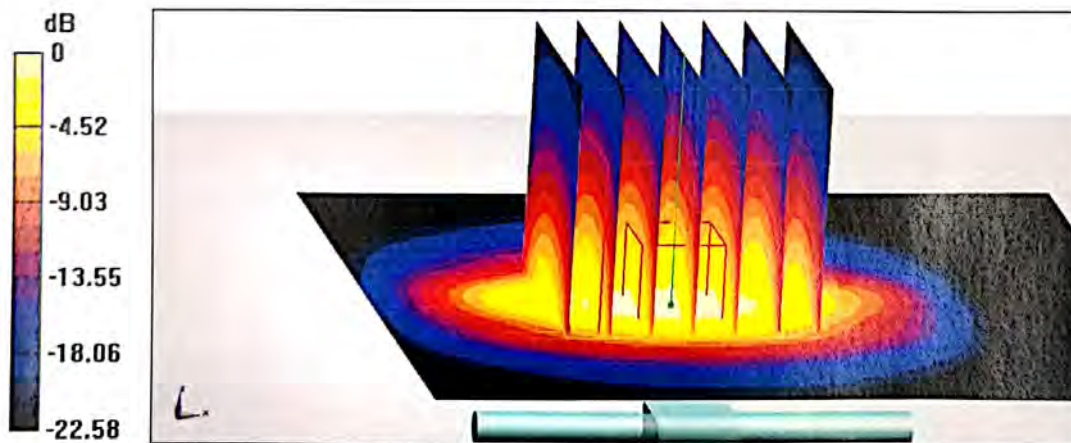
Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.92 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 21.8 W/kg

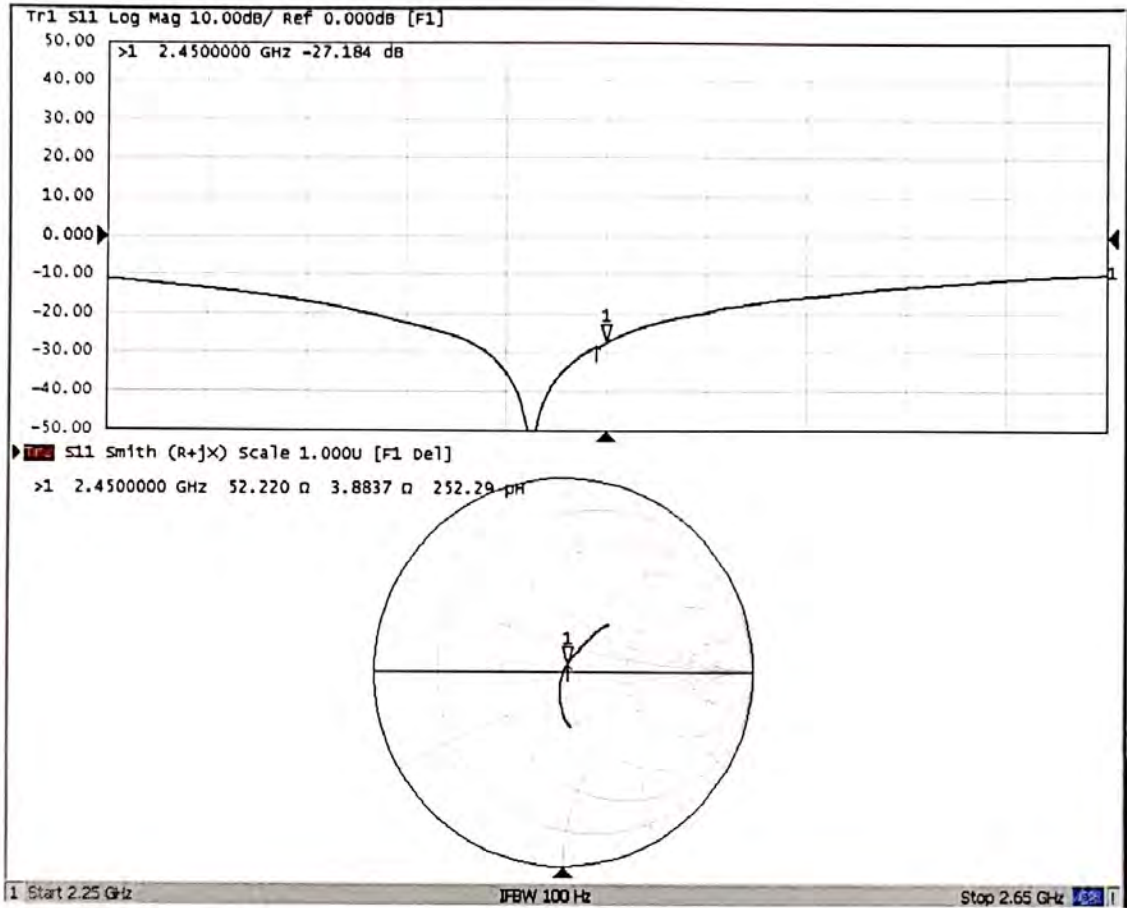


0 dB = 21.8 W/kg = 13.38 dBW/kg



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Impedance Measurement Plot for Head TSL





Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Client **SGS**

Certificate No: **Z19-60155**

CALIBRATION CERTIFICATE

Object **D2600V2 - SN: 1125**

Calibration Procedure(s) **FF-Z11-003-01
Calibration Procedures for dipole validation kits**

Calibration date: **May 20, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Power Meter NRP2 | 106277 | 20-Aug-18 (CTTL, No.J18X06862) | Aug-19 |
| Power sensor NRP8S | 104291 | 20-Aug-18 (CTTL, No.J18X06862) | Aug-19 |
| Reference Probe EX3DV4 | SN 3617 | 31-Jan-19(SPEAG,No.EX3-3617_Jan19) | Jan-20 |
| DAE4 | SN 1331 | 06-Feb-19(SPEAG,No.DAE4-1331_Feb19) | Feb-20 |
| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
| Signal Generator E4438C | MY49071430 | 23-Jan-19 (CTTL, No.J19X00336) | Jan-20 |
| Network Analyzer E5071C | MY46110673 | 24-Jan-19 (CTTL, No.J19X00547) | Jan-20 |

| | Name | Function | Signature |
|----------------|-------------|--------------------|-----------|
| Calibrated by: | Zhao Jing | SAR Test Engineer | |
| Reviewed by: | Lin Hao | SAR Test Engineer | |
| Approved by: | Qi Dianyuan | SAR Project Leader | |

Issued: May 25, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Glossary:

| | |
|-------|--|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM _{x,y,z} |
| N/A | not applicable or not measured |

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|------------------------------|--------------------------|--------------|
| DASY Version | DASY52 | 52.10.2.1495 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 2600 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 39.0 | 1.96 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 38.6 ± 6 % | 1.95 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | ---- | ---- |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 14.2 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 56.8 W/kg ± 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 6.22 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 24.9 W/kg ± 18.7 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 52.5 | 2.16 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 52.9 ± 6 % | 2.17 mho/m ± 6 % |
| Body TSL temperature change during test | <1.0 °C | ---- | ---- |

SAR result with Body TSL

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 13.5 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 54.0 W/kg ± 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 5.90 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 23.6 W/kg ± 18.7 % (k=2) |



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

Appendix(Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| | |
|--------------------------------------|---------------|
| Impedance, transformed to feed point | 48.9Ω- 5.00jΩ |
| Return Loss | - 25.7dB |

Antenna Parameters with Body TSL

| | |
|--------------------------------------|---------------|
| Impedance, transformed to feed point | 46.4Ω- 4.25jΩ |
| Return Loss | - 24.8dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.020 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| | |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|