

14.2 SAR results for Fast SAR

Table 14.4: SAR Values (GSM 850 MHz Band - Head)– CAB31P0000C1

| Frequency | | Side | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
|-----------|-----|-------|-------|---------------|------------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| MHz | Ch. | | | | | | | | | | | |
| 848.8 | 251 | Left | Touch | Fig.1 | | 32.46 | 33.3 | 0.460 | 0.56 | 0.602 | 0.73 | -0.05 |
| 836.6 | 190 | Left | Touch | / | | 32.34 | 33.3 | 0.311 | 0.39 | 0.447 | 0.56 | -0.02 |
| 824.2 | 128 | Left | Touch | / | | 32.37 | 33.3 | 0.245 | 0.30 | 0.353 | 0.44 | 0.02 |
| 848.8 | 251 | Left | Tilt | / | | 32.46 | 33.3 | 0.217 | 0.26 | 0.308 | 0.37 | -0.08 |
| 836.6 | 190 | Left | Tilt | / | | 32.34 | 33.3 | 0.176 | 0.22 | 0.250 | 0.31 | -0.04 |
| 824.2 | 128 | Left | Tilt | / | | 32.37 | 33.3 | 0.151 | 0.19 | 0.214 | 0.27 | 0.13 |
| 848.8 | 251 | Right | Touch | / | | 32.46 | 33.3 | 0.346 | 0.42 | 0.462 | 0.56 | -0.06 |
| 836.6 | 190 | Right | Touch | / | | 32.34 | 33.3 | 0.252 | 0.31 | 0.360 | 0.45 | 0.10 |
| 824.2 | 128 | Right | Touch | / | | 32.37 | 33.3 | 0.198 | 0.25 | 0.283 | 0.35 | -0.09 |
| 848.8 | 251 | Right | Tilt | / | | 32.46 | 33.3 | 0.200 | 0.24 | 0.282 | 0.34 | -0.07 |
| 836.6 | 190 | Right | Tilt | / | | 32.34 | 33.3 | 0.166 | 0.21 | 0.233 | 0.29 | -0.03 |
| 824.2 | 128 | Right | Tilt | / | | 32.37 | 33.3 | 0.135 | 0.17 | 0.189 | 0.23 | 0.06 |

Table 14.5: SAR Values (GSM 850 MHz Band-Body)–CAB31P0000C1

| Frequency | | Mode (number of timeslots) | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
|-----------|-----|----------------------------|---------------|---------------|------------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| MHz | Ch. | | | | | | | | | | | |
| 836.6 | 190 | GPRS (2) | Front | / | | 29.42 | 30 | 0.346 | 0.40 | 0.494 | 0.56 | -0.04 |
| 848.8 | 251 | GPRS (2) | Rear | Fig.2 | | 29.54 | 30 | 0.511 | 0.57 | 0.687 | 0.76 | -0.16 |
| 836.6 | 190 | GPRS (2) | Rear | / | | 29.42 | 30 | 0.419 | 0.48 | 0.602 | 0.69 | -0.05 |
| 824.2 | 128 | GPRS (2) | Rear | / | | 29.53 | 30 | 0.439 | 0.49 | 0.635 | 0.71 | -0.01 |
| 836.6 | 190 | GPRS (2) | Left | / | | 29.42 | 30 | 0.317 | 0.36 | 0.469 | 0.54 | 0.00 |
| 836.6 | 190 | GPRS (2) | Right | / | | 29.42 | 30 | 0.297 | 0.34 | 0.439 | 0.50 | -0.01 |
| 836.6 | 190 | GPRS (2) | Bottom | / | | 29.42 | 30 | 0.045 | 0.05 | 0.074 | 0.08 | -0.12 |
| 824.2 | 128 | EGPRS (2) | Rear | / | | 29.51 | 30 | 0.501 | 0.56 | 0.669 | 0.75 | 0.01 |
| 848.8 | 251 | Speech | Rear Headset1 | / | | 32.46 | 33.3 | 0.457 | 0.55 | 0.621 | 0.75 | 0.08 |
| 848.8 | 251 | Speech | Rear Headset2 | / | | 32.46 | 33.3 | 0.485 | 0.59 | 0.32 | 0.39 | -0.12 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The Headset1 is CCB3160A11C1, the Headset2 is CCB3160A11C2.

Table 14.6: SAR Values(GSM1900 MHz Band - Head)–CAB31P0000C1

| Ambient Temperature: 22.0 °C Liquid Temperature: 21.8 °C | | | | | | | | | | | |
|--|-----|-------|---------------|------------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 1909.8 | 810 | Left | Touch | / | 29.42 | 30.3 | 0.244 | 0.30 | 0.433 | 0.53 | -0.13 |
| 1880 | 661 | Left | Touch | / | 29.27 | 30.3 | 0.252 | 0.32 | 0.446 | 0.57 | -0.06 |
| 1850.2 | 512 | Left | Touch | Fig.3 | 28.91 | 30.3 | 0.283 | 0.39 | 0.474 | 0.65 | 0.07 |
| 1909.8 | 810 | Left | Tilt | / | 29.42 | 30.3 | 0.074 | 0.09 | 0.132 | 0.16 | 0.05 |
| 1880 | 661 | Left | Tilt | / | 29.27 | 30.3 | 0.068 | 0.09 | 0.121 | 0.15 | 0.17 |
| 1850.2 | 512 | Left | Tilt | / | 28.91 | 30.3 | 0.065 | 0.09 | 0.112 | 0.15 | 0.10 |
| 1909.8 | 810 | Right | Touch | / | 29.42 | 30.3 | 0.225 | 0.28 | 0.387 | 0.47 | 0.05 |
| 1880 | 661 | Right | Touch | / | 29.27 | 30.3 | 0.222 | 0.28 | 0.384 | 0.49 | 0.06 |
| 1850.2 | 512 | Right | Touch | / | 28.91 | 30.3 | 0.248 | 0.34 | 0.408 | 0.56 | 0.15 |
| 1909.8 | 810 | Right | Tilt | / | 29.42 | 30.3 | 0.100 | 0.12 | 0.173 | 0.21 | 0.07 |
| 1880 | 661 | Right | Tilt | / | 29.27 | 30.3 | 0.100 | 0.13 | 0.175 | 0.22 | 0.00 |
| 1850.2 | 512 | Right | Tilt | / | 28.91 | 30.3 | 0.101 | 0.14 | 0.175 | 0.24 | 0.01 |

Table 14.7: SAR Values (GSM 1900 MHz Band-Body)– CAB31P0000C1

| Ambient Temperature: 22.0 °C Liquid Temperature: 21.8 °C | | | | | | | | | | | |
|--|-----|----------------------------|---------------|------------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 1880 | 661 | GPRS (4) | Front | / | 23.99 | 25 | 0.31 | 0.39 | 0.501 | 0.63 | 0.00 |
| 1909.8 | 810 | GPRS (4) | Rear | / | 24.23 | 25 | 0.43 | 0.51 | 0.715 | 0.85 | 0.07 |
| 1880 | 661 | GPRS (4) | Rear | / | 23.99 | 25 | 0.436 | 0.55 | 0.701 | 0.88 | 0.08 |
| 1850.2 | 512 | GPRS (4) | Rear | Fig.4 | 23.65 | 25 | 0.427 | 0.58 | 0.703 | 0.96 | 0.10 |
| 1880 | 661 | GPRS (4) | Left | / | 23.99 | 25 | 0.065 | 0.08 | 0.11 | 0.14 | 0.00 |
| 1880 | 661 | GPRS (4) | Right | / | 23.99 | 25 | 0.107 | 0.14 | 0.183 | 0.23 | -0.09 |
| 1880 | 661 | GPRS (4) | Bottom | / | 23.99 | 25 | 0.238 | 0.30 | 0.44 | 0.56 | -0.01 |
| 1880 | 661 | EGPRS (4) | Rear | / | 23.71 | 25 | 0.428 | 0.58 | 0.707 | 0.95 | -0.03 |
| 1850.2 | 512 | Speech | Rear Headset1 | / | 28.91 | 30.3 | 0.34 | 0.47 | 0.575 | 0.79 | 0.01 |
| 1850.2 | 512 | Speech | Rear Headset2 | / | 28.91 | 30.3 | 0.336 | 0.46 | 0.567 | 0.78 | 0.07 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The Headset1 is CCB3160A11C1, the Headset2 is CCB3160A11C2.

Table 14.8: SAR Values(WCDMA 850 MHz Band - Head)– CAB31P0000C1

| Ambient Temperature: 22.0 °C Liquid Temperature: 21.8 °C | | | | | | | | | | | |
|--|------|-------|---------------|------------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 846.6 | 4233 | Left | Touch | / | 23.76 | 24 | 0.43 | 0.45 | 0.615 | 0.65 | -0.17 |
| 836.4 | 4182 | Left | Touch | Fig.5 | 23.53 | 24 | 0.495 | 0.55 | 0.652 | 0.73 | 0.06 |
| 826.4 | 4132 | Left | Touch | / | 23.67 | 24 | 0.363 | 0.39 | 0.518 | 0.56 | 0.02 |
| 846.6 | 4233 | Left | Tilt | / | 23.76 | 24 | 0.237 | 0.25 | 0.338 | 0.36 | -0.08 |
| 836.4 | 4182 | Left | Tilt | / | 23.53 | 24 | 0.241 | 0.27 | 0.343 | 0.38 | 0.08 |
| 826.4 | 4132 | Left | Tilt | / | 23.67 | 24 | 0.222 | 0.24 | 0.315 | 0.34 | 0.07 |
| 846.6 | 4233 | Right | Touch | / | 23.76 | 24 | 0.39 | 0.41 | 0.512 | 0.54 | 0.04 |
| 836.4 | 4182 | Right | Touch | / | 23.53 | 24 | 0.354 | 0.39 | 0.506 | 0.56 | -0.09 |
| 826.4 | 4132 | Right | Touch | / | 23.67 | 24 | 0.303 | 0.33 | 0.434 | 0.47 | -0.05 |
| 846.6 | 4233 | Right | Tilt | / | 23.76 | 24 | 0.22 | 0.23 | 0.309 | 0.33 | -0.06 |
| 836.4 | 4182 | Right | Tilt | / | 23.53 | 24 | 0.216 | 0.24 | 0.303 | 0.34 | -0.08 |
| 826.4 | 4132 | Right | Tilt | / | 23.67 | 24 | 0.193 | 0.21 | 0.27 | 0.29 | -0.04 |

Table 14.9: SAR Values (WCDMA 850 MHz Band-Body) – CAB31P0000C1

| Ambient Temperature: 22.0 °C Liquid Temperature: 21.8 °C | | | | | | | | | | |
|--|------|---------------|------------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|------------------------|------------------|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 836.4 | 4182 | Front | / | 23.53 | 24 | 0.243 | 0.27 | 0.347 | 0.39 | -0.17 |
| 846.6 | 4233 | Rear | Fig.6 | 23.76 | 24 | 0.48 | 0.51 | 0.64 | 0.68 | 0.00 |
| 836.4 | 4182 | Rear | / | 23.53 | 24 | 0.423 | 0.47 | 0.612 | 0.68 | -0.15 |
| 826.4 | 4132 | Rear | / | 23.67 | 24 | 0.416 | 0.45 | 0.602 | 0.65 | -0.01 |
| 836.4 | 4182 | Left | / | 23.53 | 24 | 0.218 | 0.24 | 0.322 | 0.36 | -0.06 |
| 836.4 | 4182 | Right | / | 23.53 | 24 | 0.203 | 0.23 | 0.299 | 0.33 | -0.05 |
| 836.4 | 4182 | Bottom | / | 23.53 | 24 | 0.032 | 0.04 | 0.052 | 0.06 | -0.11 |
| 846.6 | 4233 | Rear Headset1 | / | 23.76 | 24 | 0.438 | 0.46 | 0.633 | 0.67 | 0.03 |
| 846.6 | 4233 | Rear Headset2 | / | 23.76 | 24 | 0.433 | 0.46 | 0.623 | 0.66 | 0.00 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The Headset1 is CCB3160A11C1, the Headset2 is CCB3160A11C2.

Table 14.10: SAR Values(WCDMA1900 MHz Band - Head)– CAB31P0000C1

| Ambient Temperature: 22.0 °C Liquid Temperature: 21.8 °C | | | | | | | | | | | |
|--|------|-------|---------------|------------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 1907.6 | 9538 | Left | Touch | / | 23.23 | 23.8 | 0.386 | 0.44 | 0.676 | 0.77 | -0.03 |
| 1880 | 9400 | Left | Touch | Fig.7 | 23.01 | 23.8 | 0.536 | 0.64 | 0.906 | 1.09 | 0.15 |
| 1852.4 | 9262 | Left | Touch | / | 23.18 | 23.8 | 0.502 | 0.58 | 0.845 | 0.97 | 0.04 |
| 1907.6 | 9538 | Left | Tilt | / | 23.23 | 23.8 | 0.113 | 0.13 | 0.199 | 0.23 | -0.01 |
| 1880 | 9400 | Left | Tilt | / | 23.01 | 23.8 | 0.129 | 0.15 | 0.226 | 0.27 | 0.02 |
| 1852.4 | 9262 | Left | Tilt | / | 23.18 | 23.8 | 0.118 | 0.14 | 0.206 | 0.24 | 0.05 |
| 1907.6 | 9538 | Right | Touch | / | 23.23 | 23.8 | 0.289 | 0.33 | 0.488 | 0.56 | -0.03 |
| 1880 | 9400 | Right | Touch | / | 23.01 | 23.8 | 0.375 | 0.45 | 0.606 | 0.73 | 0.13 |
| 1852.4 | 9262 | Right | Touch | / | 23.18 | 23.8 | 0.334 | 0.39 | 0.561 | 0.65 | 0.10 |
| 1907.6 | 9538 | Right | Tilt | / | 23.23 | 23.8 | 0.119 | 0.14 | 0.207 | 0.24 | 0.01 |
| 1880 | 9400 | Right | Tilt | / | 23.01 | 23.8 | 0.146 | 0.18 | 0.251 | 0.30 | 0.03 |
| 1852.4 | 9262 | Right | Tilt | / | 23.18 | 23.8 | 0.141 | 0.16 | 0.241 | 0.28 | 0.12 |

Table 14.11: SAR Values (WCDMA1900 MHz Band-Body)– CAB31P0000C1

| Ambient Temperature: 22.0 °C Liquid Temperature: 21.8 °C | | | | | | | | | | |
|--|------|---------------|------------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|------------------------|------------------|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 1880 | 9400 | Front | / | 23.01 | 23.8 | 0.352 | 0.42 | 0.582 | 0.70 | 0.09 |
| 1907.6 | 9538 | Rear | / | 23.23 | 23.8 | 0.401 | 0.46 | 0.658 | 0.75 | -0.02 |
| 1880 | 9400 | Rear | Fig.8 | 23.01 | 23.8 | 0.463 | 0.56 | 0.737 | 0.88 | 0.02 |
| 1852.4 | 9262 | Rear | / | 23.18 | 23.8 | 0.425 | 0.49 | 0.707 | 0.82 | 0.02 |
| 1880 | 9400 | Left | / | 23.01 | 23.8 | 0.102 | 0.12 | 0.176 | 0.21 | 0.00 |
| 1880 | 9400 | Right | / | 23.01 | 23.8 | 0.085 | 0.10 | 0.145 | 0.17 | -0.04 |
| 1880 | 9400 | Bottom | / | 23.01 | 23.8 | 0.292 | 0.35 | 0.543 | 0.65 | -0.09 |
| 1880 | 9400 | Rear Headset1 | / | 23.01 | 23.8 | 0.431 | 0.52 | 0.719 | 0.86 | -0.02 |
| 1880 | 9400 | Rear Headset2 | / | 23.01 | 23.8 | 0.428 | 0.51 | 0.713 | 0.86 | 0.05 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The Headset1 is CCB3160A11C1, the Headset2 is CCB3160A11C2.

Table 14.12: SAR Values (Wi-Fi 802.11b- Head)–CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|-----|-------|---------------|------------|-----------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 2437 | 6 | Left | Touch | Fig.9 | 15.75 | 16.2 | 0.196 | 0.22 | 0.418 | 0.46 | -0.16 |
| 2437 | 6 | Left | Tilt | / | 15.75 | 16.2 | 0.155 | 0.17 | 0.324 | 0.36 | -0.02 |
| 2437 | 6 | Right | Touch | / | 15.75 | 16.2 | 0.109 | 0.12 | 0.203 | 0.23 | 0.10 |
| 2437 | 6 | Right | Tilt | / | 15.75 | 16.2 | 0.087 | 0.10 | 0.170 | 0.19 | 0.03 |

Table 14.13: SAR Values (Wi-Fi 802.11b - Body)–CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | |
|------------------------------|-----|---------------|------------|-----------------------|-------------------------|-----------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 2437 | 6 | Front | / | 15.75 | 16.2 | 0.041 | 0.05 | 0.079 | 0.09 | -0.10 |
| 2437 | 6 | Rear | Fig.10 | 15.75 | 16.2 | 0.227 | 0.25 | 0.507 | 0.56 | -0.11 |
| 2437 | 6 | Right | / | 15.75 | 16.2 | 0.111 | 0.12 | 0.225 | 0.25 | 0.01 |
| 2437 | 6 | Top | / | 15.75 | 16.2 | 0.030 | 0.03 | 0.054 | 0.06 | 0.10 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.14: SAR Values (WCDMA1900 MHz Band - Head)– other batteries

| Ambient Temperature: 22.0 °C Liquid Temperature: 21.8 °C | | | | | | | | | | | |
|---|------|------|---------------|---------|-----------------------|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Side | Test Position | Battery | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 1880 | 9400 | Left | Touch | 1 | 23.01 | 23.8 | 0.520 | 0.62 | 0.874 | 1.05 | -0.08 |
| 1880 | 9400 | Left | Touch | 2 | 23.01 | 23.8 | 0.528 | 0.63 | 0.891 | 1.07 | -0.06 |

Note1: The battery 1 is CAB31P0000CB, the battery 2 is CAB1300015C2.

Table 14.15: SAR Values (PCS 1900 MHz Band-Body)– other batteries

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | |
|------------------------------|-----|---------------|---------|-----------------------|-------------------------|-----------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Test Position | Battery | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 1850.2 | 512 | Rear | 1 | 23.65 | 25 | 0.405 | 0.55 | 0.661 | 0.90 | 0.09 |
| 1850.2 | 512 | Rear | 2 | 23.65 | 25 | 0.417 | 0.57 | 0.688 | 0.94 | -0.02 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The battery 1 is CAB31P0000CB, the battery 2 is CAB1300015C2.

14.2 SAR results for Standard procedure

There is zoom scan measurement to be added for the highest measured SAR in each exposure configuration/band.

Table 14.16: SAR Values (GSM 850 MHz Band - Head)– CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|-----|------|---------------|------------|-----------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 848.8 | 251 | Left | Touch | Fig.1 | 32.46 | 33.3 | 0.460 | 0.56 | 0.602 | 0.73 | -0.05 |

Table 14.17: SAR Values (GSM 850 MHz Band-Body)– CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|-----|----------------------------|---------------|------------|-----------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 848.8 | 251 | GPRS (2) | Rear | / | 29.54 | 30 | 0.511 | 0.57 | 0.687 | 0.76 | -0.16 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.18: SAR Values (GSM 1900 MHz Band - Head)– CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|-----|------|---------------|------------|-----------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 1850.2 | 512 | Left | Touch | Fig.3 | 28.91 | 30.3 | 0.283 | 0.39 | 0.474 | 0.65 | 0.07 |

Table 14.19: SAR Values (GSM 1900 MHz Band-Body)– CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|-----|----------------------------|---------------|------------|-----------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 1850.2 | 512 | GPRS (4) | Rear | Fig.4 | 23.65 | 25 | 0.427 | 0.58 | 0.703 | 0.96 | 0.10 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.20: SAR Values (WCDMA 850 MHz Band - Head)– CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|------|------|---------------|------------|-----------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 836.4 | 4182 | Left | Touch | Fig.5 | 23.53 | 24 | 0.495 | 0.55 | 0.652 | 0.73 | 0.06 |

Table 14.21: SAR Values (WCDMA 850 MHz Band-Body) – CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|------|------------------|---------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|------------------------|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 846.6 | 4233 | Rear | Fig.6 | 23.76 | 24 | 0.48 | 0.51 | 0.64 | 0.68 | 0.00 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.22: SAR Values (WCDMA1900 MHz Band - Head)– CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|------|------|---------------|------------|-----------------------|-----------------------------|--------------------------|--------------------------|-------------------------|------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 1880 | 9400 | Left | Touch | Fig.7 | 23.01 | 23.8 | 0.536 | 0.64 | 0.906 | 1.09 | 0.15 |

Table 14.23: SAR Values (WCDMA1900 MHz Band-Body)– CAB31P0000C1

| Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C | | | | | | | | | | |
|---|------|------------------|---------------|-----------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|------------------------|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 1880 | 9400 | Rear | Fig.8 | 23.01 | 23.8 | 0.463 | 0.56 | 0.737 | 0.88 | 0.02 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.24: SAR Values (Wi-Fi 802.11b- Head)– CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|-----|------|---------------|------------|-----------------------|-----------------------------|--------------------------|--------------------------|-------------------------|------------------------|------------------|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPower (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 2437 | 6 | Left | Touch | Fig.9 | 15.75 | 16.2 | 0.196 | 0.22 | 0.418 | 0.46 | -0.16 |

Table 14.25: SAR Values (Wi-Fi 802.11b - Body)– CAB31P0000C1

| Ambient Temperature: 22.0 °C | | | | | Liquid Temperature: 21.8 °C | | | | | |
|------------------------------|-----|------------------|---------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|------------------------|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-upPow er (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 2437 | 6 | Rear | Fig.10 | 15.75 | 16.2 | 0.227 | 0.25 | 0.507 | 0.56 | -0.11 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SARprobe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Table 15.1: SAR Measurement Variability for Head WCDMA 1900 (1g)

| Frequency | | Side | Test Position | Original SAR (W/kg) | First Repeated SAR (W/kg) | The Ratio | Second Repeated SAR (W/kg) |
|-----------|------|------|---------------|---------------------|---------------------------|-----------|----------------------------|
| MHz | Ch. | | | | | | |
| 1880 | 9400 | Left | Touch | 0.906 | 0.898 | 1.01 | / |

16 Measurement Uncertainty

16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|----------------------------|---|------|-------------------|-----------------------|------------|---------|----------|----------------|-----------------|-------------------|
| Measurement system | | | | | | | | | | |
| 1 | Probe calibration | B | 5.5 | N | 1 | 1 | 1 | 5.5 | 5.5 | ∞ |
| 2 | Isotropy | B | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 4 | Linearity | B | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 10 | RF ambient conditions-reflection | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. restrictions | B | 0.4 | R | $\sqrt{3}$ | 1 | 1 | 0.2 | 0.2 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 2.9 | R | $\sqrt{3}$ | 1 | 1 | 1.7 | 1.7 | ∞ |
| 13 | Post-processing | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| Test sample related | | | | | | | | | | |
| 14 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 15 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 16 | Drift of output power | B | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |
| Phantom and set-up | | | | | | | | | | |
| 17 | Phantom uncertainty | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| 18 | Liquid conductivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 19 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 20 | Liquid permittivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 21 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |

| | | | | | | | | |
|--|---|--|--|--|--|------|------|-----|
| Combined standard uncertainty | $u_c' = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ | | | | | 9.25 | 9.12 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | $u_e = 2u_c$ | | | | | 18.5 | 18.2 | |

16.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|----------------------------|---|------|-------------------|-----------------------|------------|---------|----------|----------------|-----------------|-------------------|
| Measurement system | | | | | | | | | | |
| 1 | Probe calibration | B | 6.5 | N | 1 | 1 | 1 | 6.5 | 6.5 | ∞ |
| 2 | Isotropy | B | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 2.0 | R | $\sqrt{3}$ | 1 | 1 | 1.2 | 1.2 | ∞ |
| 4 | Linearity | B | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 10 | RF ambient conditions-reflection | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. restrictions | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 6.7 | R | $\sqrt{3}$ | 1 | 1 | 3.9 | 3.9 | ∞ |
| 13 | Post-processing | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| Test sample related | | | | | | | | | | |
| 14 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 15 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 16 | Drift of output power | B | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |
| Phantom and set-up | | | | | | | | | | |
| 17 | Phantom uncertainty | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| 18 | Liquid conductivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 19 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |

| | | | | | | | | | | |
|--|------------------------------|---|-----|---|------------|-----|------|------|------|----------|
| 20 | Liquid permittivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 21 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |
| Combined standard uncertainty | | $u_c' = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ | | | | | | 10.8 | 10.7 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | | $u_e = 2u_c$ | | | | | | 21.6 | 21.4 | |

16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|----------------------------|---|------|-------------------|-----------------------|------------|---------|----------|----------------|-----------------|-------------------|
| Measurement system | | | | | | | | | | |
| 1 | Probe calibration | B | 5.5 | N | 1 | 1 | 1 | 5.5 | 5.5 | ∞ |
| 2 | Isotropy | B | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 4 | Linearity | B | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 10 | RF ambient conditions-reflection | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. Restrictions | B | 0.4 | R | $\sqrt{3}$ | 1 | 1 | 0.2 | 0.2 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 2.9 | R | $\sqrt{3}$ | 1 | 1 | 1.7 | 1.7 | ∞ |
| 13 | Post-processing | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 14 | Fast SAR z-Approximation | B | 7.0 | R | $\sqrt{3}$ | 1 | 1 | 4.0 | 4.0 | ∞ |
| Test sample related | | | | | | | | | | |
| 15 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 16 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 17 | Drift of output power | B | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |

| Phantom and set-up | | | | | | | | | | |
|--|------------------------------|---|------|---|------------|------|------|------|------|----------|
| 18 | Phantom uncertainty | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| 19 | Liquid conductivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 20 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 21 | Liquid permittivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 22 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |
| Combined standard uncertainty | | $u_c' = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ | | | | | | 10.1 | 9.95 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | | $u_e = 2u_c$ | | | | | | 20.2 | 19.9 | |

16.4 Measurement Uncertainty for Fast SAR Tests (3~6GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|---------------------|---|------|-------------------|-----------------------|------------|---------|----------|----------------|-----------------|-------------------|
| Measurement system | | | | | | | | | | |
| 1 | Probe calibration | B | 6.5 | N | 1 | 1 | 1 | 6.5 | 6.5 | ∞ |
| 2 | Isotropy | B | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 2.0 | R | $\sqrt{3}$ | 1 | 1 | 1.2 | 1.2 | ∞ |
| 4 | Linearity | B | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 10 | RF ambient conditions-reflection | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. Restrictions | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 6.7 | R | $\sqrt{3}$ | 1 | 1 | 3.9 | 3.9 | ∞ |
| 13 | Post-processing | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 14 | Fast SAR z-Approximation | B | 14.0 | R | $\sqrt{3}$ | 1 | 1 | 8.1 | 8.1 | ∞ |
| Test sample related | | | | | | | | | | |

| | | | | | | | | | | |
|--|------------------------------|---|------|---|------------|------|------|------|------|----------|
| 15 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 16 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 17 | Drift of output power | B | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |
| Phantom and set-up | | | | | | | | | | |
| 18 | Phantom uncertainty | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| 19 | Liquid conductivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 20 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 21 | Liquid permittivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 22 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |
| Combined standard uncertainty | | $u_c' = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ | | | | | | 13.3 | 13.2 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | | $u_e = 2u_c$ | | | | | | 26.6 | 26.4 | |

17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

| No. | Name | Type | Serial Number | Calibration Date | Valid Period |
|-----|-----------------------|---------------|---------------|--------------------------|--------------|
| 01 | Network analyzer | E5071C | MY46110673 | February15,2014 | One year |
| 02 | Power meter | NRVD | 102196 | March 15,2014 | One year |
| 03 | Power sensor | NRV-Z5 | 100596 | | |
| 04 | Signal Generator | E4438C | MY49071430 | February 08, 2014 | One Year |
| 05 | Amplifier | 60S1G4 | 0331848 | No Calibration Requested | |
| 06 | BTS | E5515C | MY50263375 | January 30, 2014 | One year |
| 07 | E-field Probe | SPEAG EX3DV4 | 3846 | September 24, 2014 | One year |
| 08 | DAE | SPEAG DAE4 | 777 | September 17, 2014 | One year |
| 09 | Dipole Validation Kit | SPEAG D835V2 | 4d069 | August 28, 2014 | One year |
| 10 | Dipole Validation Kit | SPEAG D1900V2 | 5d018 | June 18, 2014 | One year |
| 11 | Dipole Validation Kit | SPEAG D2450V2 | 869 | June 13, 2014 | One year |

END OF REPORT BODY

ANNEX A Graph Results

GSM850 Left Cheek High

Date: 2014-12-22

Electronics: DAE4 Sn777

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 41.036$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3846 ConvF(9.18, 9.18, 9.18)

Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.685 W/kg

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

Reference Value = 12.82 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.734 W/kg

SAR(1 g) = 0.602 W/kg; SAR(10 g) = 0.460 W/kg

Maximum value of SAR (measured) = 0.657 W/kg

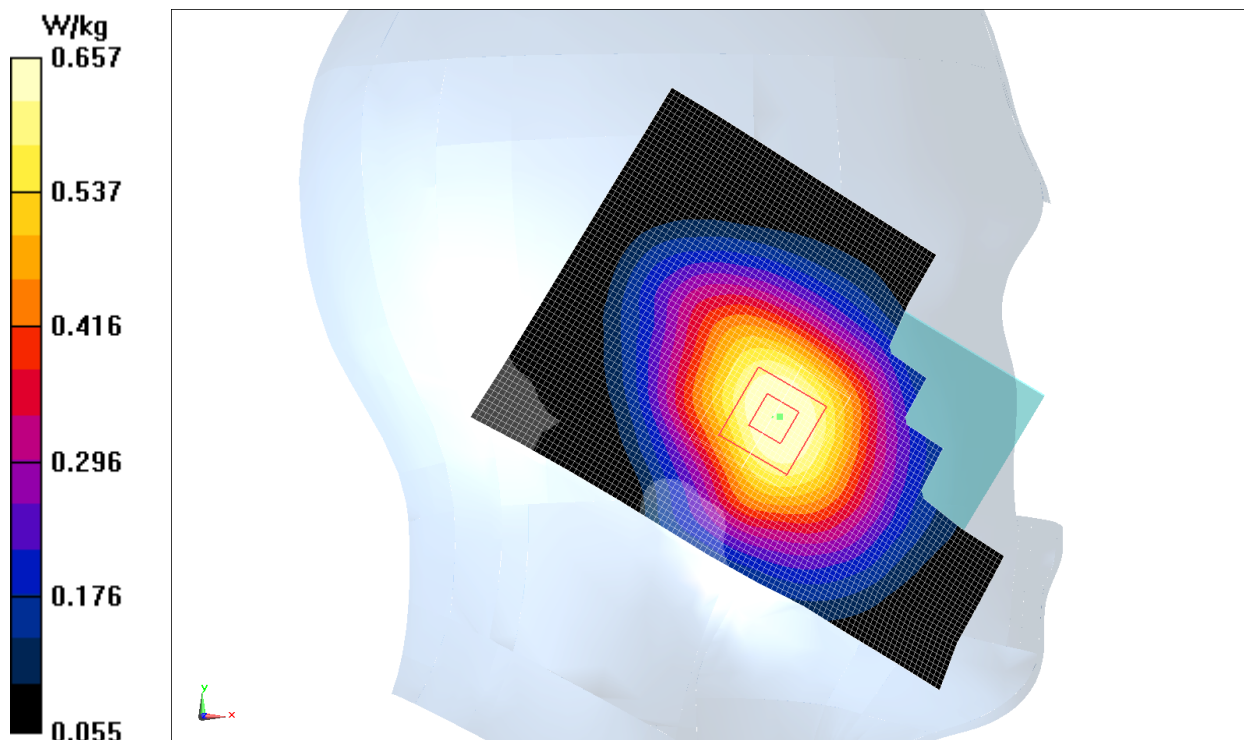


Fig.1 850MHz 251

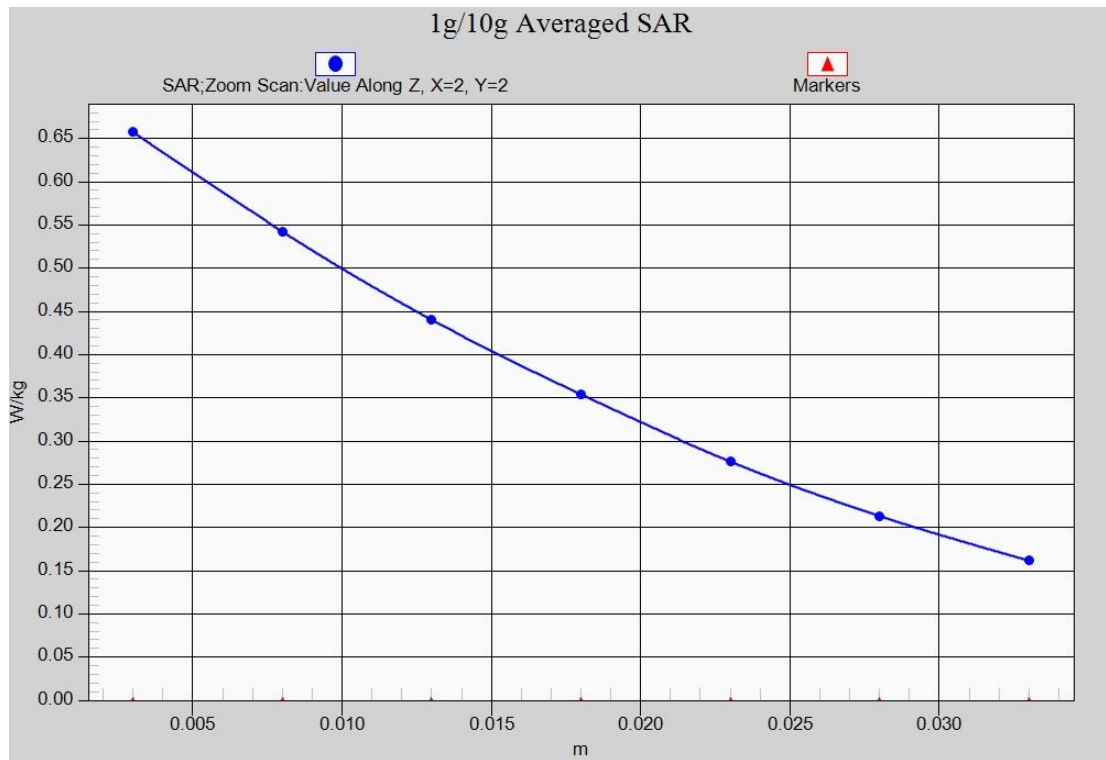


Fig. 1-1 Z-Scan at power reference point (850 MHz CH251)

GSM850 Body Rear High with GPRS

Date: 2014-12-22

Electronics: DAE4 Sn777

Medium: Body 850 MHz

Medium parameters used(interpolated): $f = 848.8$ MHz; $\sigma = 9.994$ S/m; $\epsilon_r = 53.263$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:4

Probe: EX3DV4 - SN3846 ConvF(9.09, 9.09, 9.09)

Rear High/Area Scan (101x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.725 W/kg

Rear High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 26.44 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.877 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.511 W/kg

Maximum value of SAR (measured) = 0.722 W/kg

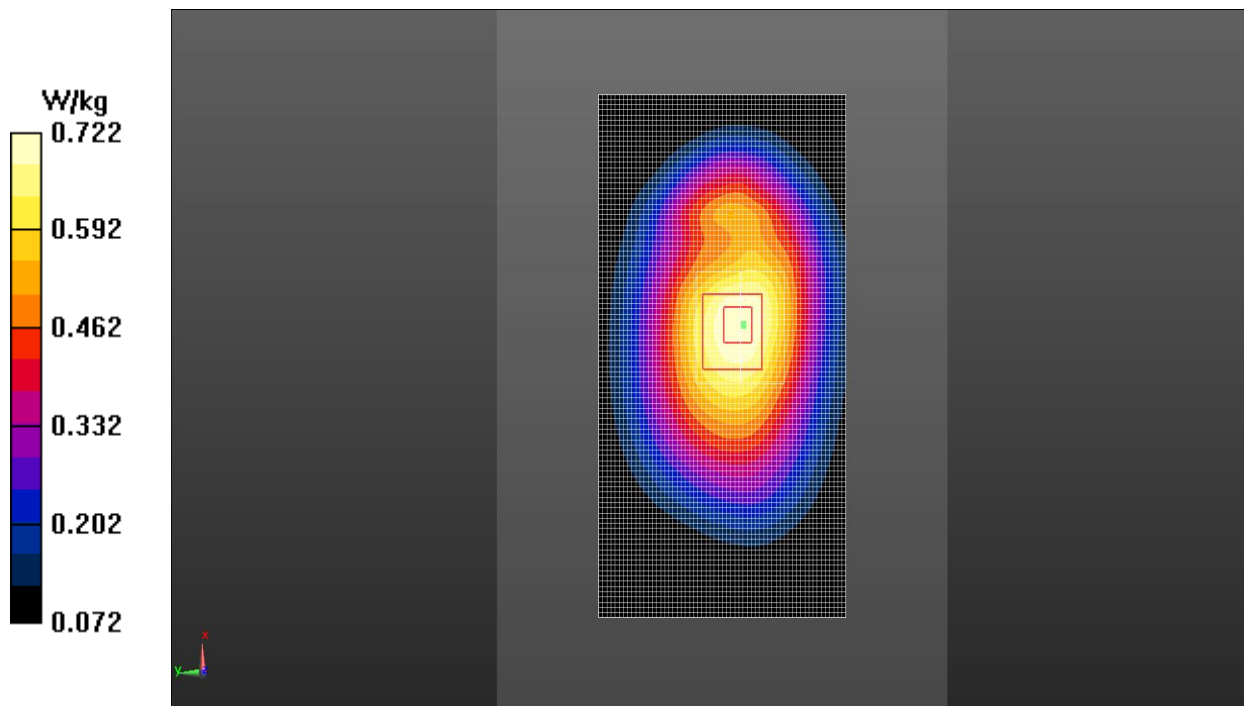


Fig.2 850 MHz CH251

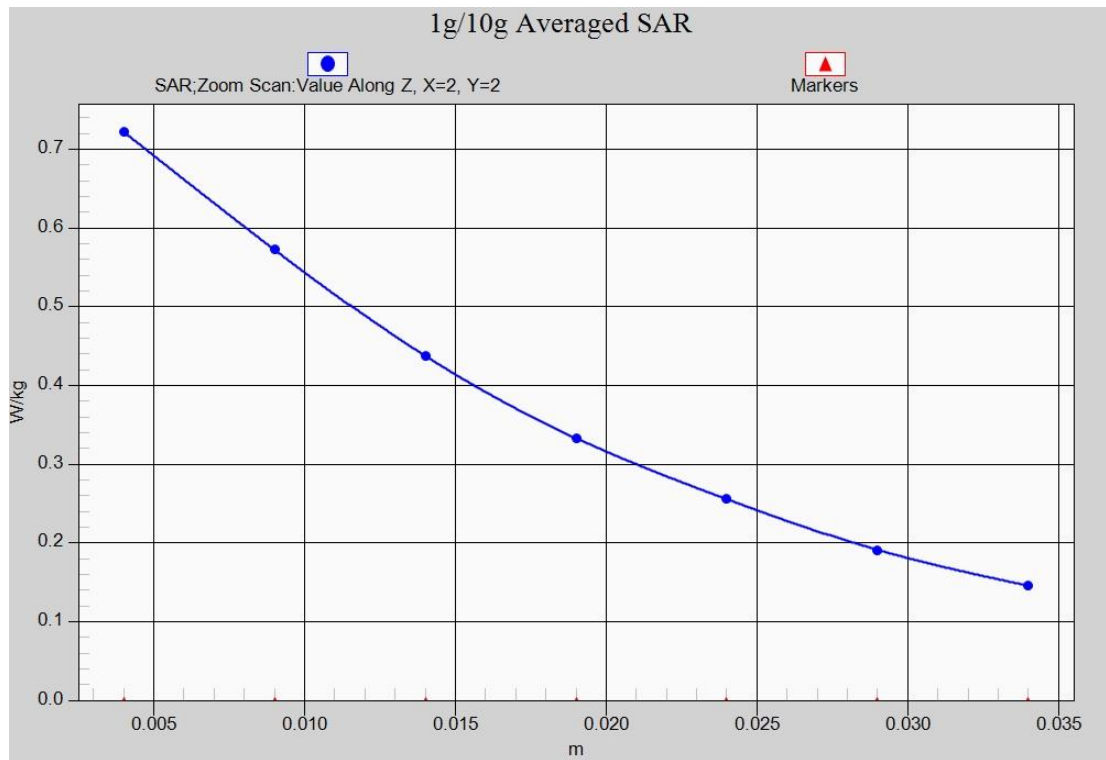


Fig. 2-1 Z-Scan at power reference point (850 MHz CH251)

GSM1900 Left Cheek Low

Date: 2014-12-11

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used(interpolated): $f = 1850.2$ MHz; $\sigma = 1.355$ S/m; $\epsilon_r = 40.591$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3846 ConvF(7.26, 7.26, 7.26)

Cheek Low/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.517 W/kg

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

Reference Value = 5.443 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.731 W/kg

SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.283 W/kg

Maximum value of SAR (measured) = 0.521 W/kg

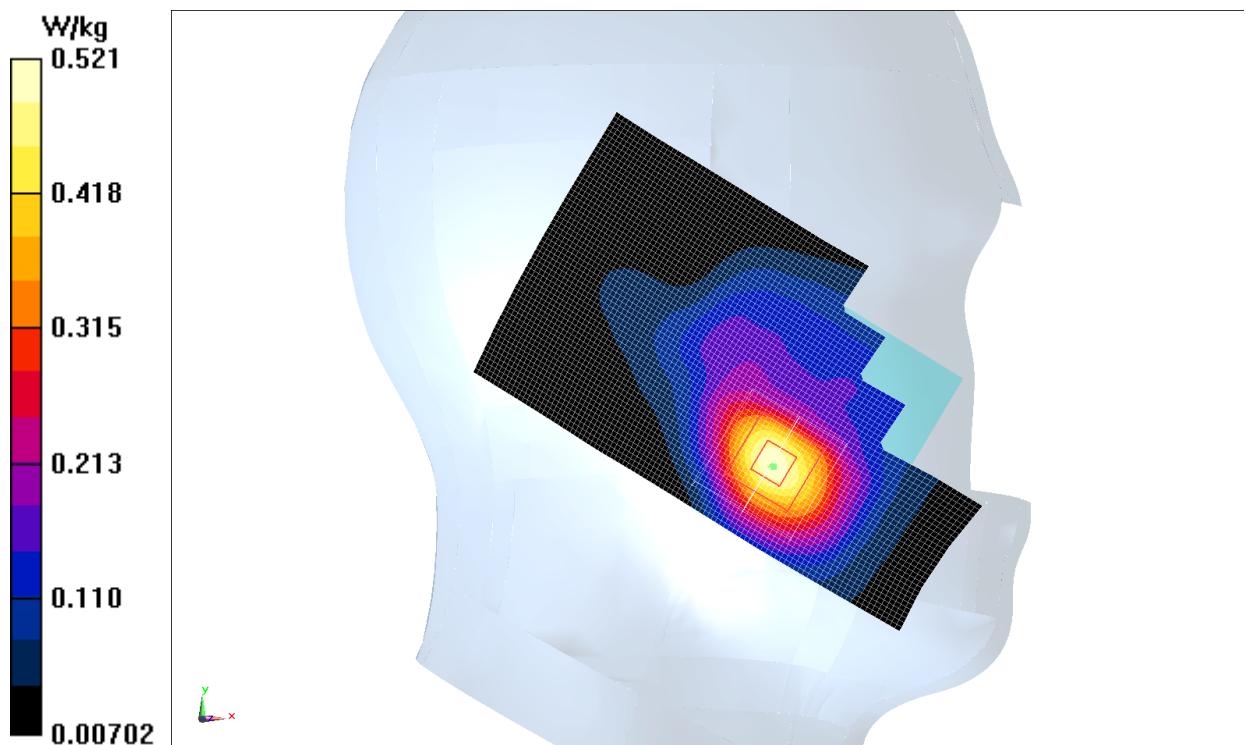


Fig.3 1900 MHz CH512

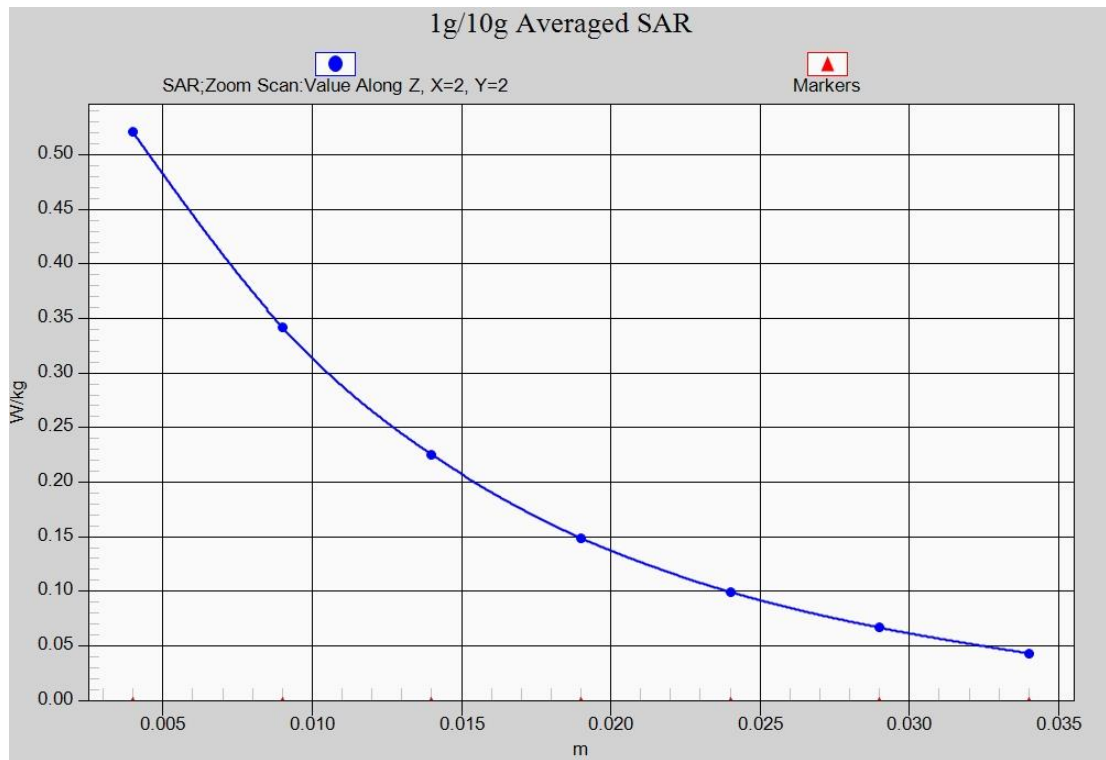


Fig. 3-1 Z-Scan at power reference point (1900 MHz CH512)

GSM1900 Body Rear Low with GPRS

Date: 2014-12-11

Electronics: DAE4 Sn777

Medium: Body 1900 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.505$ S/m; $\epsilon_r = 53.038$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: GSM 1900MHz GPRS Frequency: 1850.2 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN3846 ConvF(7.15, 7.15, 7.15)

Rear Low/Area Scan (101x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.803 W/kg

Rear Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.422 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.703 W/kg; SAR(10 g) = 0.427 W/kg

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

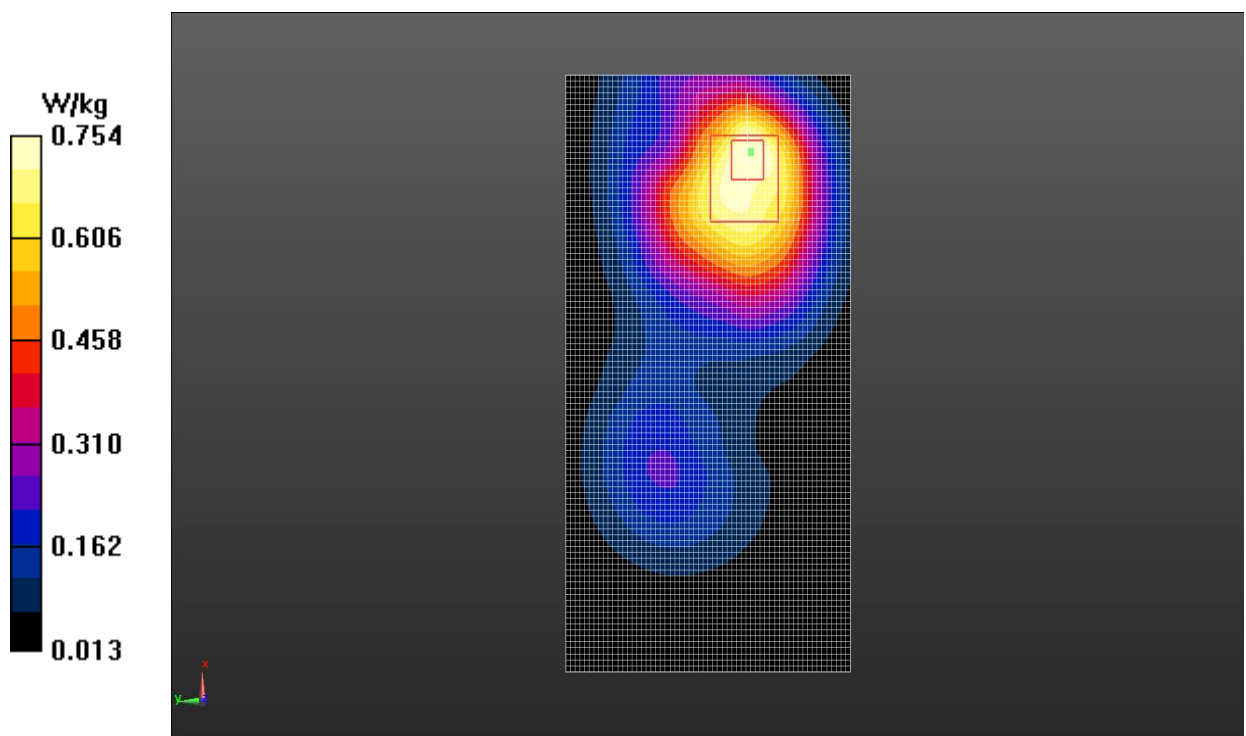


Fig.4 1900 MHz CH512

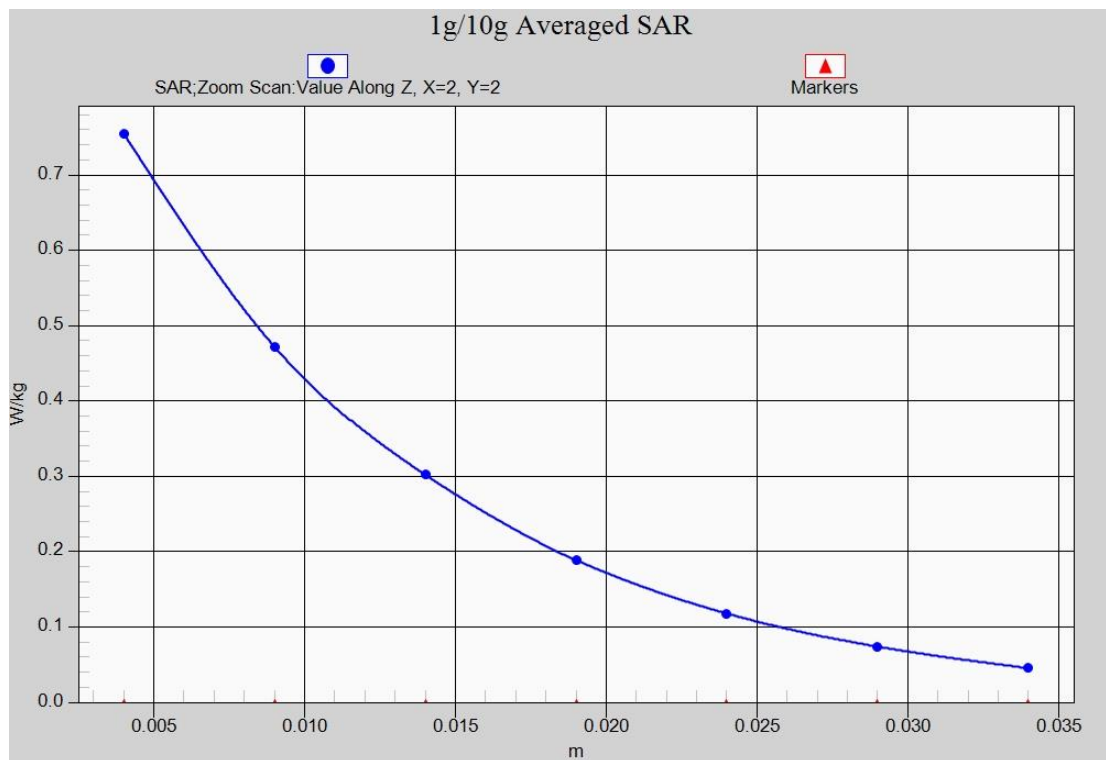


Fig.4-1 Z-Scan at power reference point (1900 MHz CH512)

WCDMA 850 Left Cheek Middle

Date: 2014-12-22

Electronics: DAE4 Sn777

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 41.39$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.18, 9.18, 9.18)

Cheek Middle/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.695 W/kg

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

Reference Value = 11.75 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.794 W/kg

SAR(1 g) = 0.652 W/kg; SAR(10 g) = 0.495 W/kg

Maximum value of SAR (measured) = 0.721 W/kg

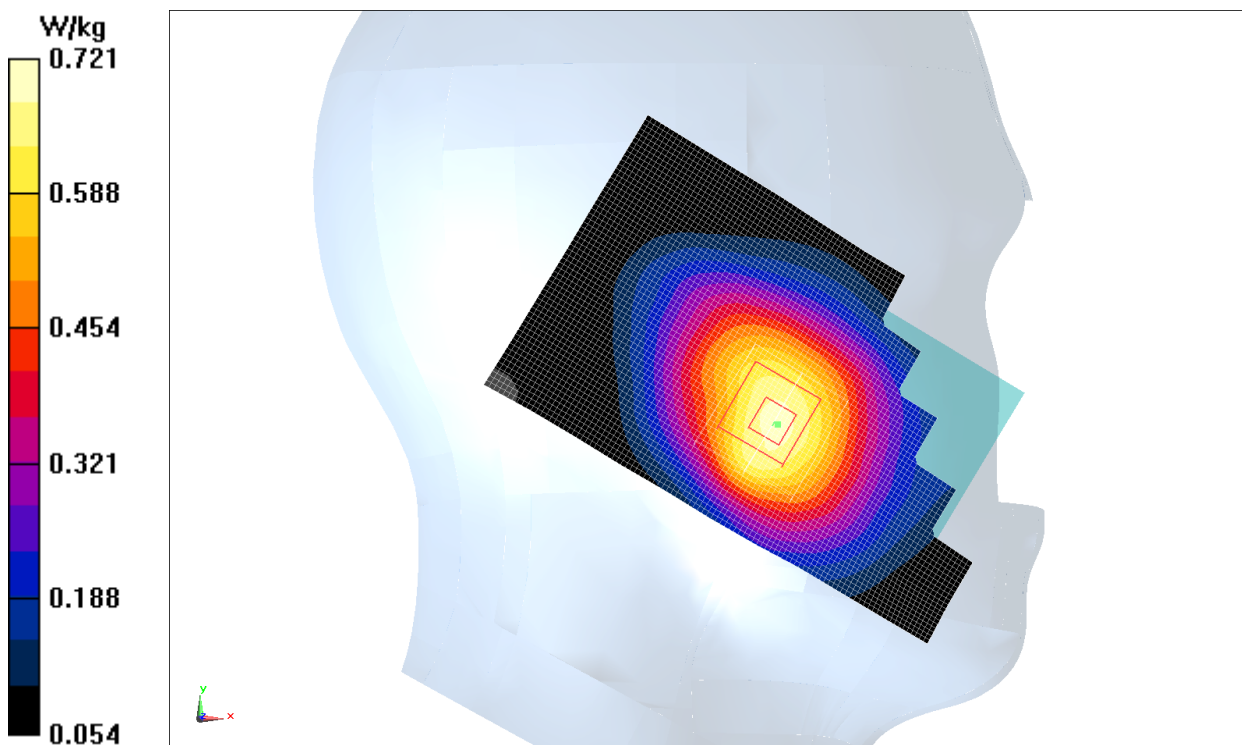


Fig.5 WCDMA 850 CH4182

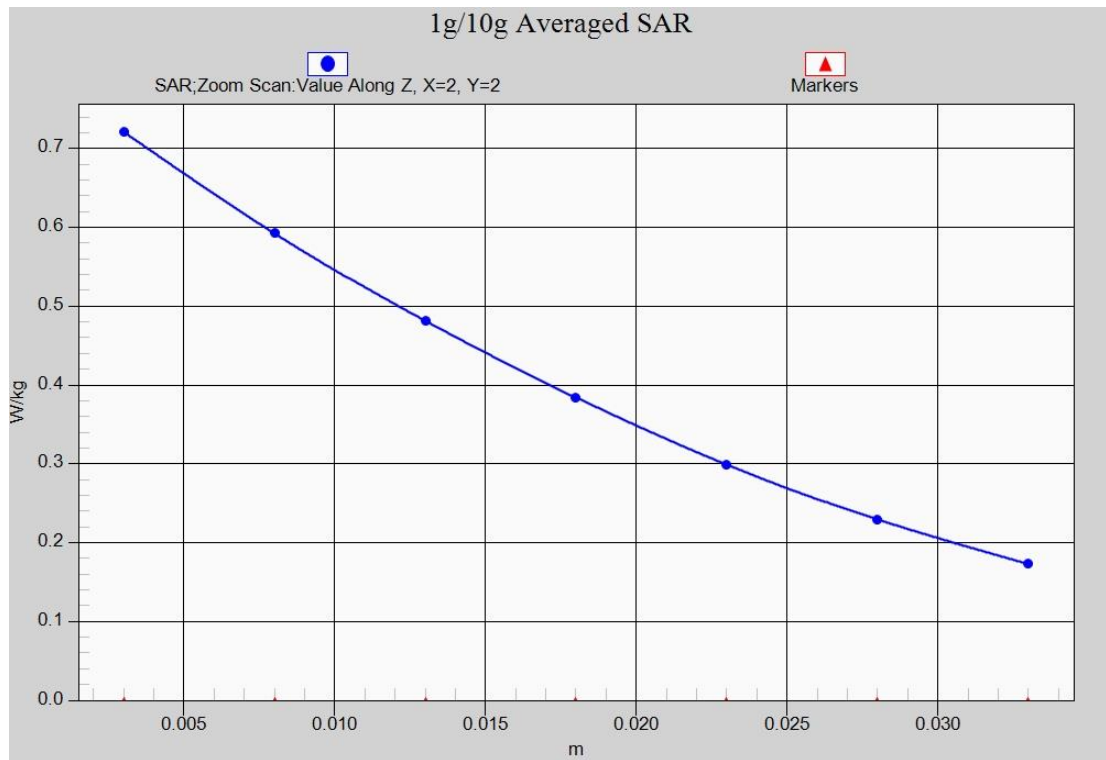


Fig. 5-1 Z-Scan at power reference point (WCDMA 850 CH4182)

WCDMA 850 Body Rear High

Date: 2014-12-22

Electronics: DAE4 Sn777

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 9.992$ S/m; $\epsilon_r = 53.286$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.09, 9.09, 9.09)

Rear High/Area Scan (101x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.669 W/kg

Rear High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 25.34 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.818 W/kg

SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.480 W/kg

Maximum value of SAR (measured) = 0.672 W/kg

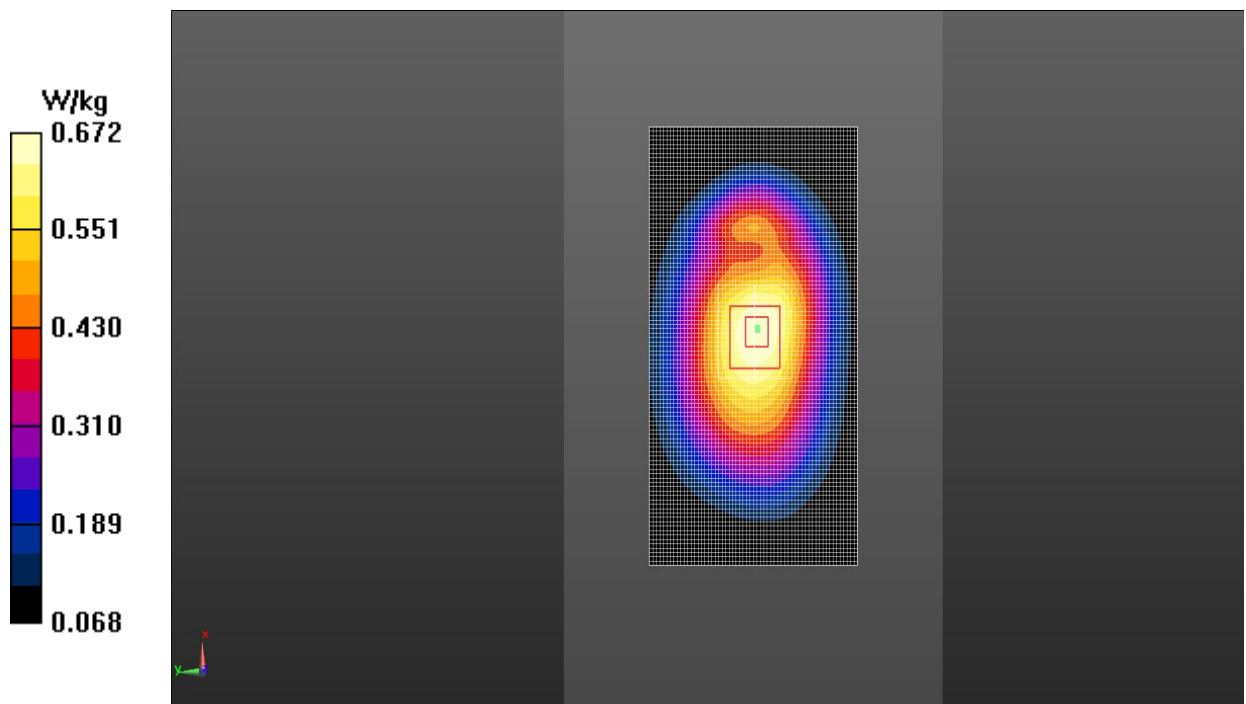


Fig.6 WCDMA 850 CH4233

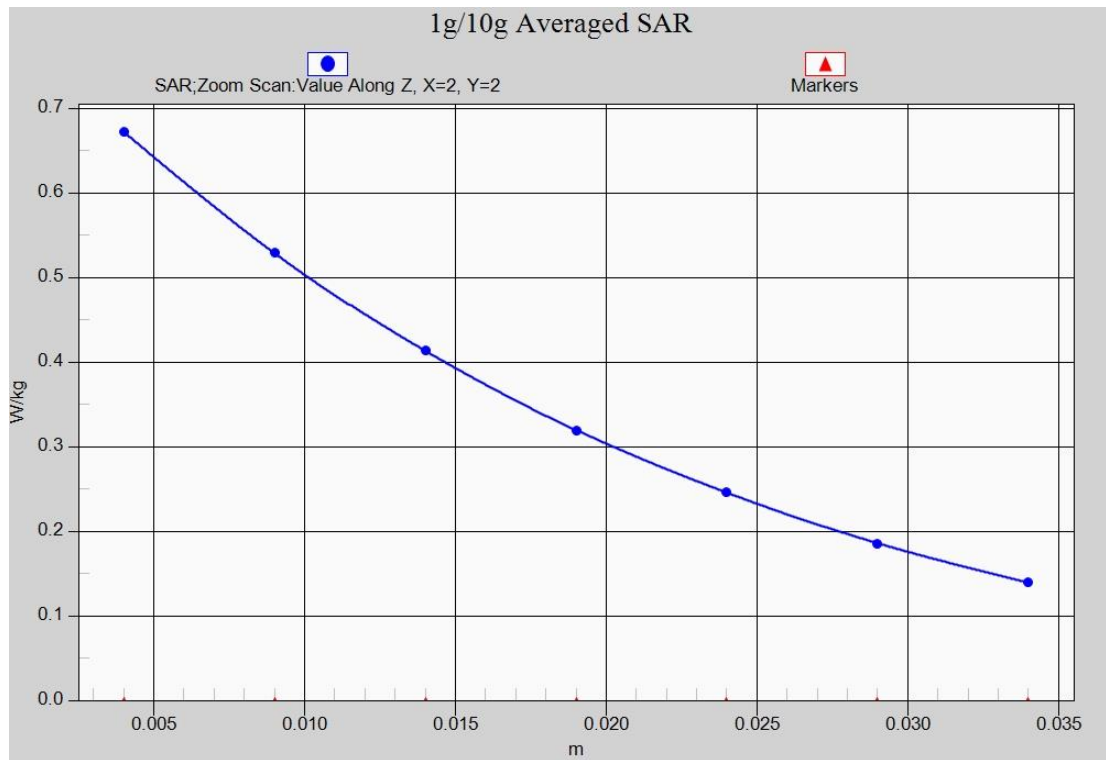


Fig. 6-1 Z-Scan at power reference point (WCDMA850 CH4233)

WCDMA 1900 Left Cheek Middle

Date: 2014-10-28

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.381$ S/m; $\epsilon_r = 40.50$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: WCDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.26, 7.26, 7.26)

Cheek Middle/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.978 W/kg

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

Reference Value = 8.111 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.906 W/kg; SAR(10 g) = 0.536 W/kg

Maximum value of SAR (measured) = 1.01 W/kg

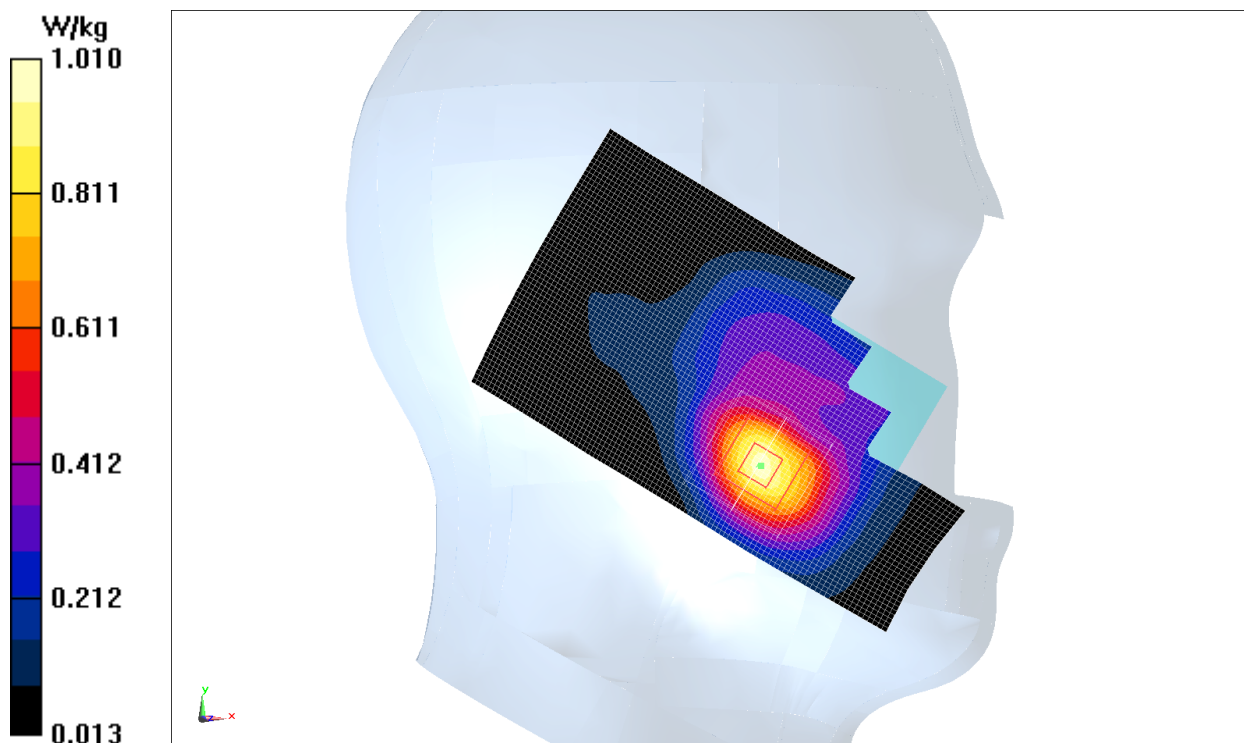


Fig.7 WCDMA1900 CH9400

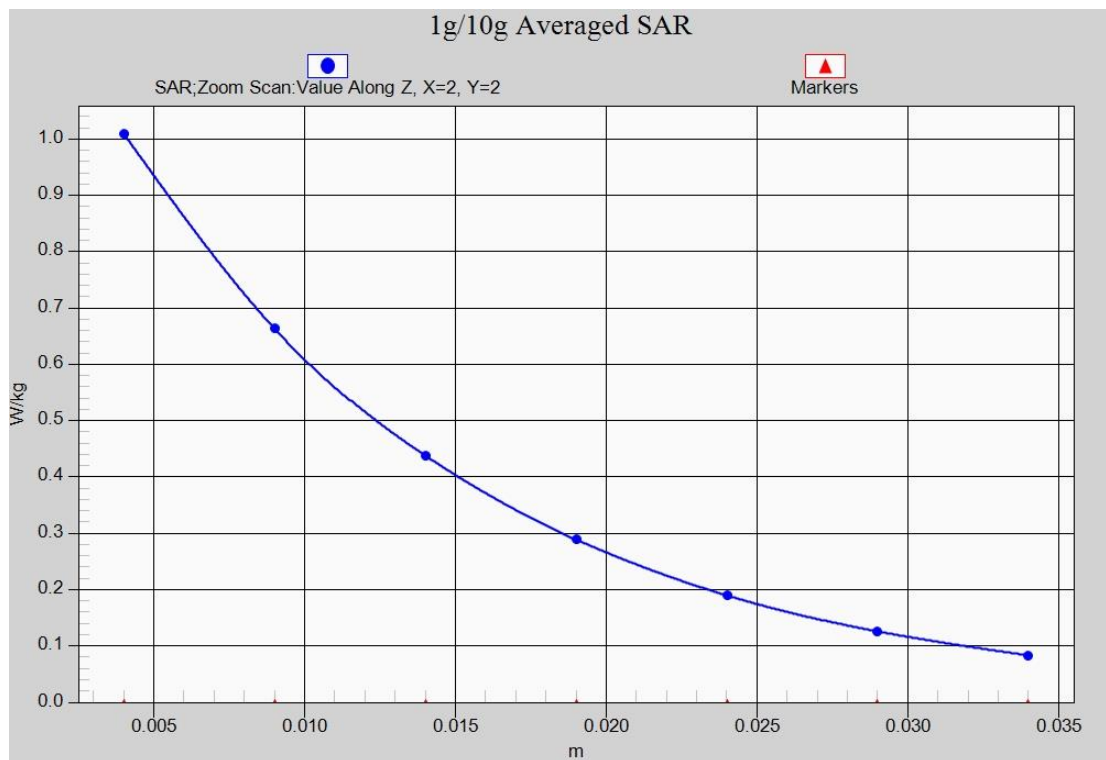


Fig. 7-1 Z-Scan at power reference point (WCDMA1900 CH9400)

WCDMA 1900 Body Rear Middle

Date: 2014-12-11

Electronics: DAE4 Sn777

Medium: Body 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.524$ S/m; $\epsilon_r = 52.857$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: WCDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.15, 7.15, 7.15)

Rear Middle/Area Scan (101x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.811 W/kg

Rear Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 9.581 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.737 W/kg; SAR(10 g) = 0.463 W/kg

Maximum value of SAR (measured) = 0.787 W/kg

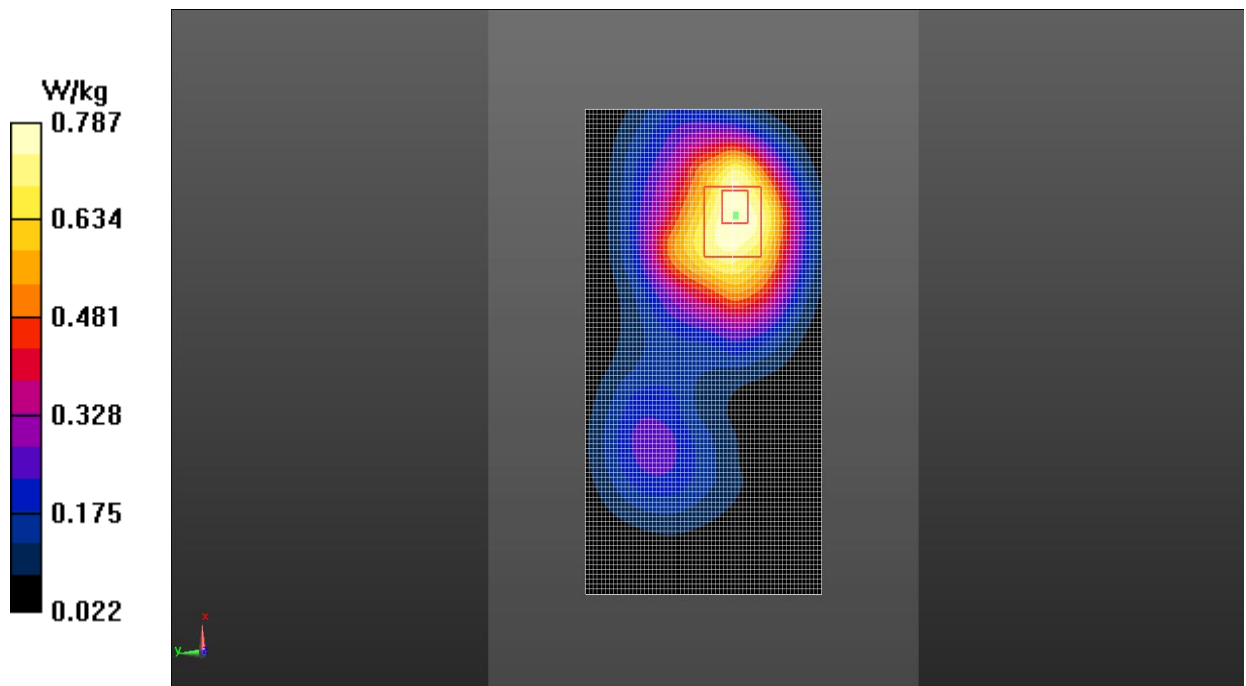


Fig.8 WCDMA1900 CH9400

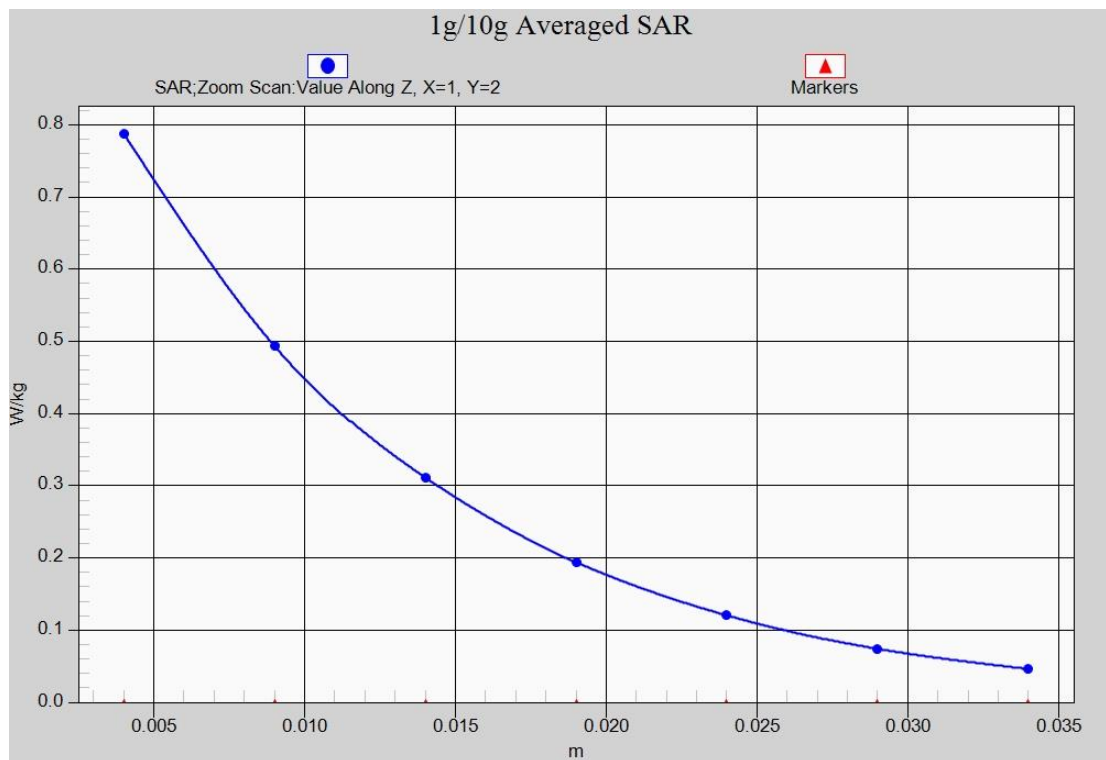


Fig. 8-1 Z-Scan at power reference point (WCDMA1900 CH9400)

Wifi 802.11b Left Cheek Channel 6

Date: 2014-12-19

Electronics: DAE4 Sn777

Medium: Head 2450 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.864$ S/m; $\epsilon_r = 38.58$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: WLan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(6.56, 6.56, 6.56)

Cheek Middle/Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.524 W/kg

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

Reference Value = 10.28 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 0.455 W/kg

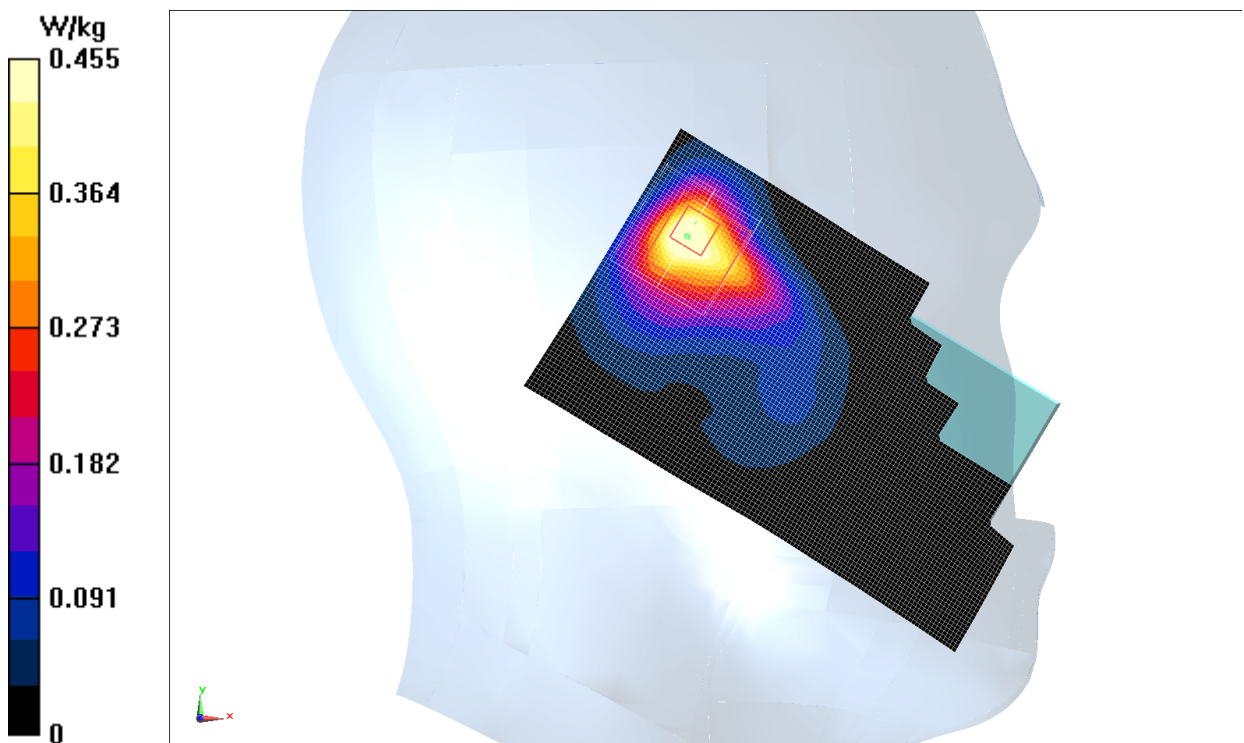


Fig.9 2450 MHz CH6

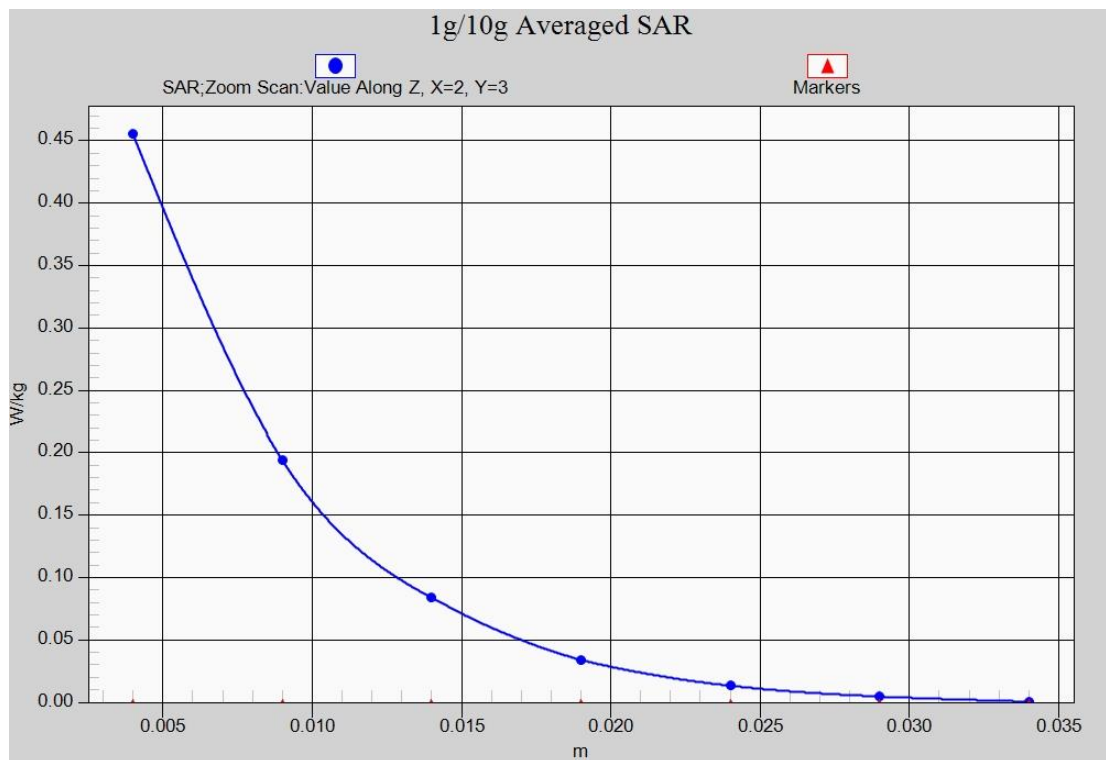


Fig. 9-1 Z-Scan at power reference point (2450 MHz CH6)

Wifi 802.11b Body Rear Channel 6

Date: 2014-12-19

Electronics: DAE4 Sn777

Medium: Body 2450 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.923$ S/m; $\epsilon_r = 53.053$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.8°C

Communication System: WLan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(6.90, 6.90, 6.90)

Rear Middle/Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.750 W/kg

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

Reference Value = 2.136 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.227 W/kg

Maximum value of SAR (measured) = 0.659 W/kg

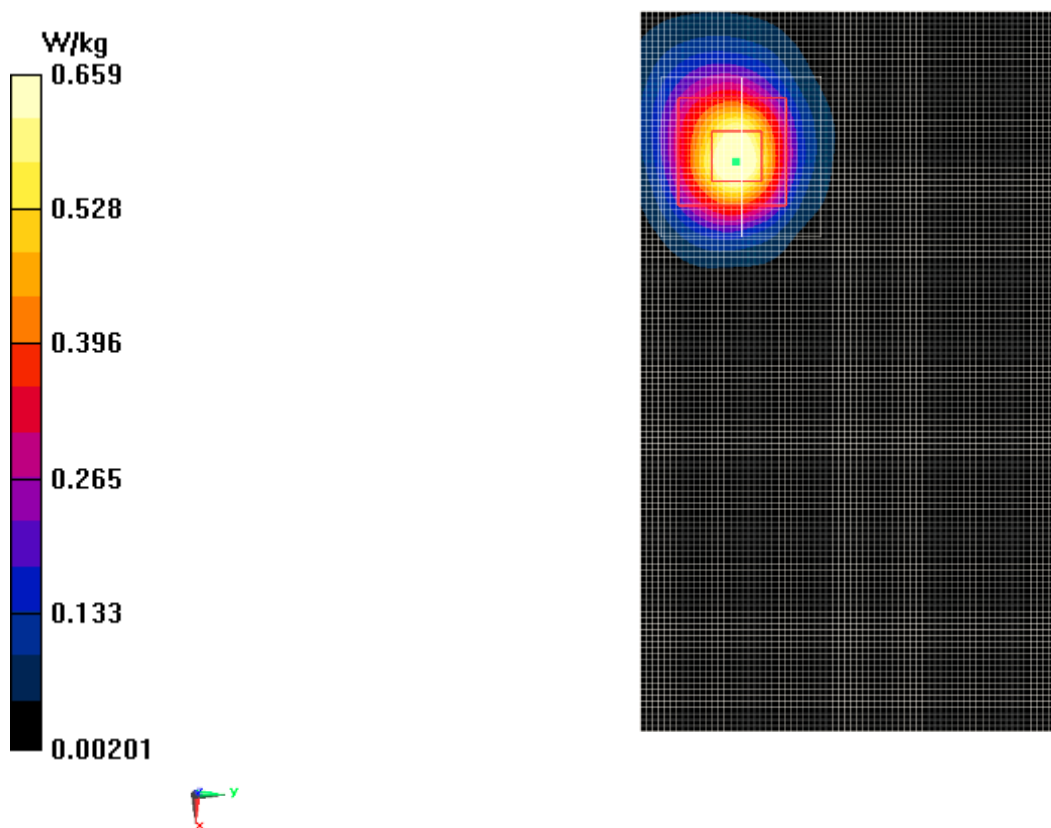


Fig.10 2450 MHz CH6