

APPENDIX B: MEASUREMENT SCANS

Plot1:

Date/Time: 2014-08-25 1:56:26 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947784/0

Communication System: LTE700 (Band 17)

Frequency: 710 MHz; Duty Cycle: 1:1

Medium: Head 750 SAR4; Medium Notes: Medium Temperature: $t=21.8$ C

Medium parameters used: $f = 710$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 43.811$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3836
- ConvF(9.4, 9.4, 9.4); Calibrated: 2014-03-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn887; Calibrated: 2014-03-31
- Phantom: SAR4 - SAM2; Type: Not - Specified; Serial: Not - Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE700 (Band 17) – Left/Cheek - Middle - QPSK - 10MHz - 50%RB - 0% offset – Antenna 2 – CC-3086/Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 6.711 V/m

Fast SAR: SAR(1 g) = 0.262 W/kg

Fast SAR(10 g) = 0.188 W/kg

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

LTE700 (Band 17) – Left/Cheek - Middle - QPSK - 10MHz - 50%RB - 0% offset – Antenna 2 – CC-3086/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 6.711 V/m

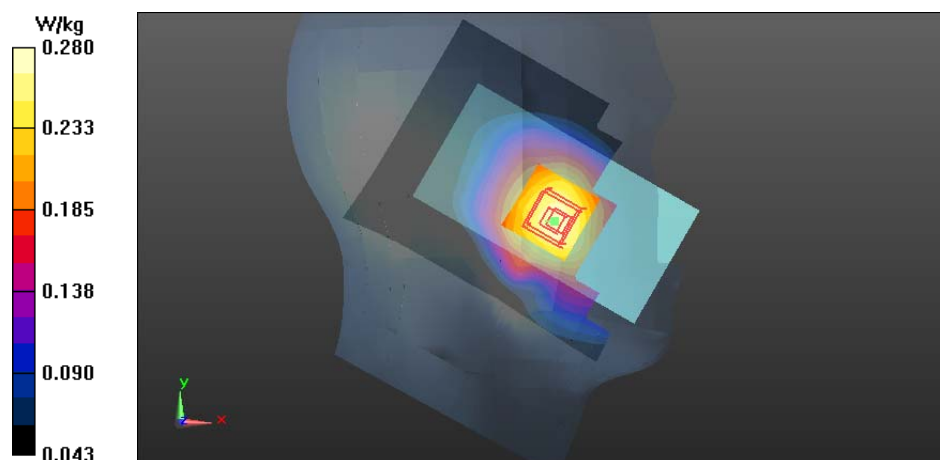
Peak SAR (extrapolated) = 0.331 W/kg

SAR(1 g) = 0.268 W/kg

SAR(10 g) = 0.209 W/kg

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 0.280 W/kg



Plot2:

Date/Time: 2014-08-15 3:32:28 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: GSM850

Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium: Head 835 SAR1; Medium Notes: Medium Temperature: t=21.2

Medium parameters used: f = 849 MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 42.867$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.83, 8.83, 8.83); Calibrated: 2013-09-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2013-09-16
- Phantom: SAR1 - SAM1; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

GSM850 - Left/Cheek - High - Antenna 2 - CC-3086/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.934 V/m

Fast SAR: SAR(1 g) = 0.375 W/kg

Fast SAR(10 g) = 0.261 W/kg

Maximum value of SAR (interpolated) = 0.401 W/kg

GSM850 - Left/Cheek - High - Antenna 2 - CC-3086/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.934 V/m

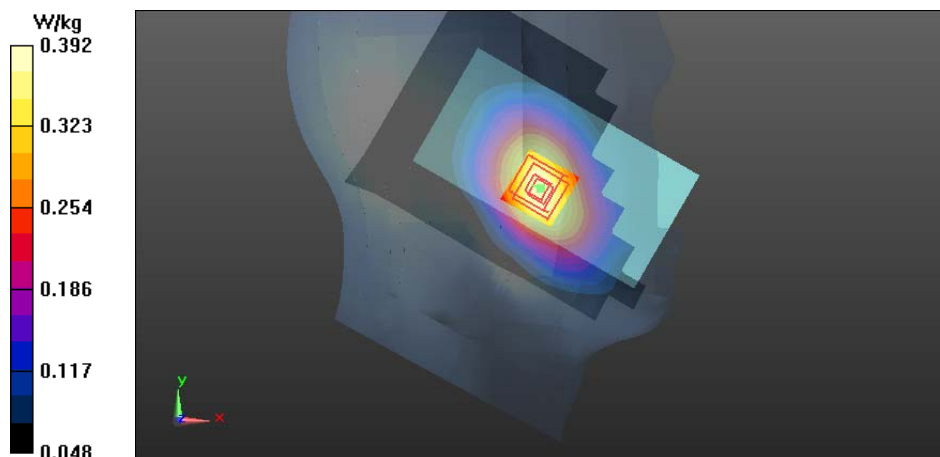
Peak SAR (extrapolated) = 0.480 W/kg

SAR(1 g) = 0.374 W/kg

SAR(10 g) = 0.281 W/kg

Power Drift = -0.17 dB

Maximum value of SAR (measured) = 0.392 W/kg



Plot3:

Date/Time: 2014-08-08 10:11:51 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Head 835 SAR1; Medium Notes: Medium Temperature: t=21.1

Medium parameters used: f = 835 MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 42.395$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.83, 8.83, 8.83); Calibrated: 2013-09-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2013-09-16
- Phantom: SAR1 - SAM1; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WCDMA850 (Band 5) - Left/Cheek - Middle - Antenna 2/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.302 V/m

Fast SAR: SAR(1 g) = 0.435 W/kg

Fast SAR(10 g) = 0.303 W/kg

Maximum value of SAR (interpolated) = 0.464 W/kg

WCDMA850 (Band 5) - Left/Cheek - Middle - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.302 V/m

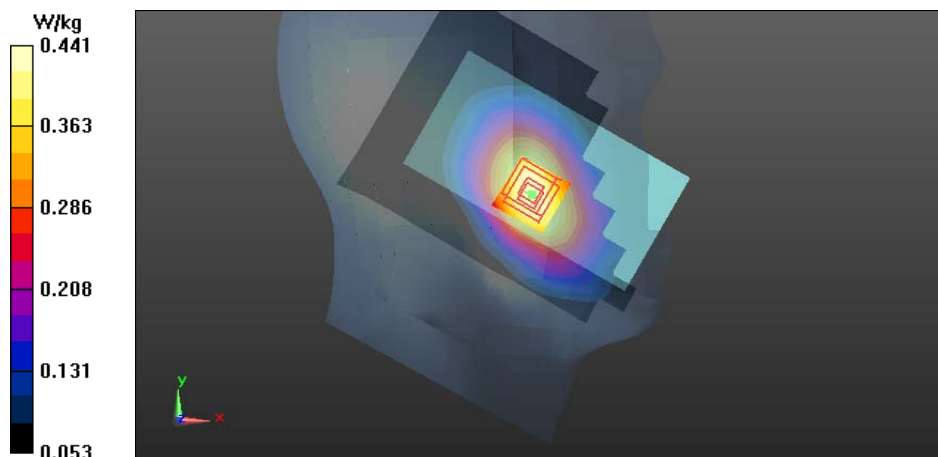
Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.418 W/kg

SAR(10 g) = 0.315 W/kg

Power Drift = 0.07 dB

Maximum value of SAR (measured) = 0.441 W/kg



Plot4:

Date/Time: 2014-08-21 12:14:24 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: LTE850 (Band 5)

Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: Head 835 SAR3; Medium Notes: Medium Temperature: t=21.4

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 41.482$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3838
- ConvF(9.2, 9.2, 9.2); Calibrated: 2014-03-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2013-09-16
- Phantom: SAR3 - SAM3; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

LTE850 (Band 5) - Left/Cheek - Middle - QPSK - 10MHz - 1RB - 0% offset – Antenna 2 – CC-3086/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.212 V/m

Fast SAR: SAR(1 g) = 0.367 W/kg

Fast SAR(10 g) = 0.255 W/kg

Maximum value of SAR (interpolated) = 0.392 W/kg

LTE850 (Band 5) - Left/Cheek - Middle - QPSK - 10MHz - 1RB - 0% offset – Antenna 2 – CC-3086/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.212 V/m

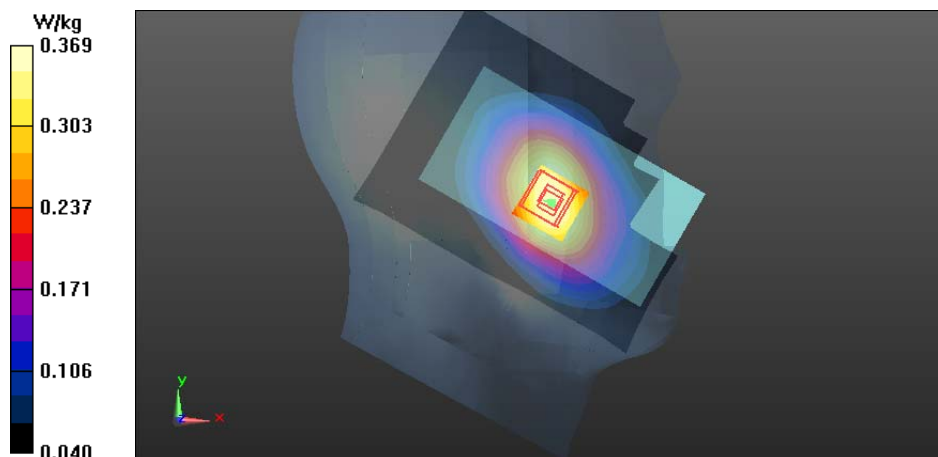
Peak SAR (extrapolated) = 0.438 W/kg

SAR(1 g) = 0.354 W/kg

SAR(10 g) = 0.267 W/kg

Power Drift = 0.11 dB

Maximum value of SAR (measured) = 0.369 W/kg



Plot5:

Date/Time: 2014-08-20 1:39:52 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947814/5

Communication System: WCDMA1700/2100 (Band 4)

Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: Head 1750 SAR2; Medium Notes: Medium Temperature: $t = 21.2^{\circ}\text{C}$

Medium parameters used (interpolated): $f = 1712.4\text{ MHz}$; $\sigma = 1.317\text{ S/m}$; $\epsilon_r = 38.799$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3823
- ConvF(7.86, 7.86, 7.86); Calibrated: 2013-09-19;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1319; Calibrated: 2013-09-18
- Phantom: SAR2 - SAM1; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WCDMA1700_2100 (Band 4) - Right/Cheek - Low – Antenna 1 – CC-3086/Area Scan (81x121x1): Interpolated

grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Reference Value = 9.752 V/m

Fast SAR: SAR(1 g) = 0.463 W/kg

Fast SAR(10 g) = 0.273 W/kg

Maximum value of SAR (interpolated) = 0.527 W/kg

WCDMA1700_2100 (Band 4) - Right/Cheek - Low – Antenna 1 – CC-3086/Zoom Scan (6x6x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.752 V/m

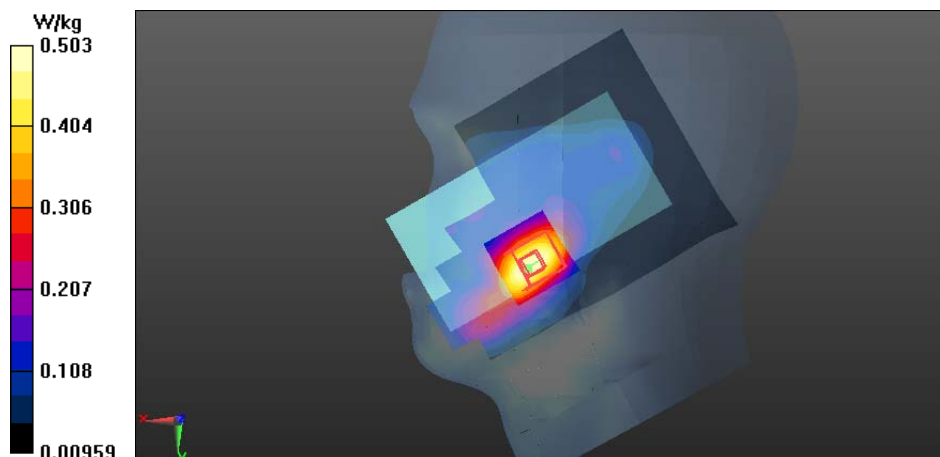
Peak SAR (extrapolated) = 0.705 W/kg

SAR(1 g) = 0.463 W/kg

SAR(10 g) = 0.286 W/kg

Power Drift = 0.13 dB

Maximum value of SAR (measured) = 0.503 W/kg



Plot6:

Date/Time: 2014-08-18 2:32:01 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947814/5

Communication System: LTE1700/2100 (Band 4)

Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: Head 1750 SAR2; Medium Notes: Medium Temperature: t= 21.1C

Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma = 1.334$ S/m; $\epsilon_r = 38.996$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3823
- ConvF(7.86, 7.86, 7.86); Calibrated: 2013-09-19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1319; Calibrated: 2013-09-18
- Phantom: SAR2 - SAM1; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE1700_2100 (Band 4) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 50% offset – Antenna 1/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.155 V/m

Fast SAR: SAR(1 g) = 0.436 W/kg

Fast SAR(10 g) = 0.255 W/kg

Maximum value of SAR (interpolated) = 0.499 W/kg

LTE1700_2100 (Band 4) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 50% offset – Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.155 V/m

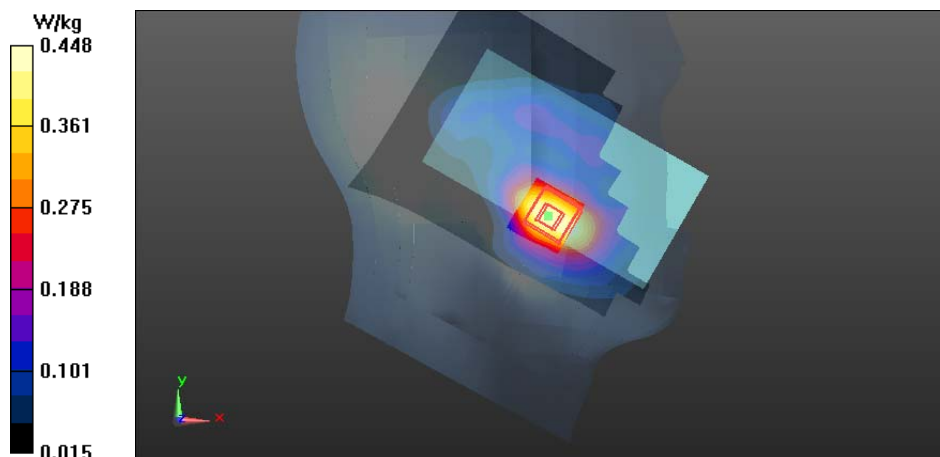
Peak SAR (extrapolated) = 0.606 W/kg

SAR(1 g) = 0.413 W/kg

SAR(10 g) = 0.266 W/kg

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 0.448 W/kg



Plot7:

Date/Time: 2014-08-07 1:47:27 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947812/9

Communication System: 2-slot GPRS1900

Frequency: 1850.2 MHz; Duty Cycle: 1:4.19952

Medium: Head 1900 SAR3; Medium Notes: Medium Temperature: $t=21.2$ C

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.337$ S/m; $\epsilon_r = 38.888$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3574
- ConvF(7.29, 7.29, 7.29); Calibrated: 2013-09-19;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2013-09-16
- Phantom: SAR3 - SAM2 ; Type: Not specified; Serial: Not specified
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

2-slot GPRS1900 - Left/Cheek – Low – Antenna 1/Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 5.139 V/m

Fast SAR: SAR(1 g) = 0.197 W/kg

Fast SAR(10 g) = 0.116 W/kg

Maximum value of SAR (interpolated) = 0.223 W/kg

2-slot GPRS1900 - Left/Cheek – Low – Antenna 1/Zoom Scan (7x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.139 V/m

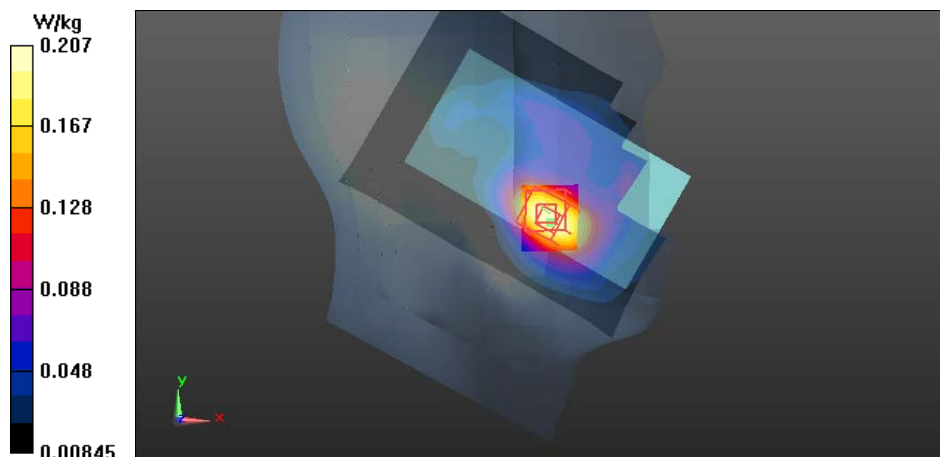
Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.192 W/kg

SAR(10 g) = 0.123 W/kg

Power Drift = 0.07 dB

Maximum value of SAR (measured) = 0.207 W/kg



Plot8:

Date/Time: 2014-08-12 4:54:37 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947812/9

Communication System: WCDMA1900 (Band 2)

Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: Head 1900 SAR3; Medium Notes: Medium Temperature: $t=20.6$ C

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 38.925$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3574
- ConvF(7.29, 7.29, 7.29); Calibrated: 2013-09-19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2013-09-16
- Phantom: SAR3 - SAM2 ; Type: Not specified; Serial: Not specified
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WCDMA1900(Band 2) - Left/Cheek – Low – Antenna 2/Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 7.461 V/m

Fast SAR: SAR(1 g) = 0.607 W/kg

Fast SAR(10 g) = 0.352 W/kg

Maximum value of SAR (interpolated) = 0.680 W/kg

WCDMA1900(Band 2) - Left/Cheek – Low – Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 7.461 V/m

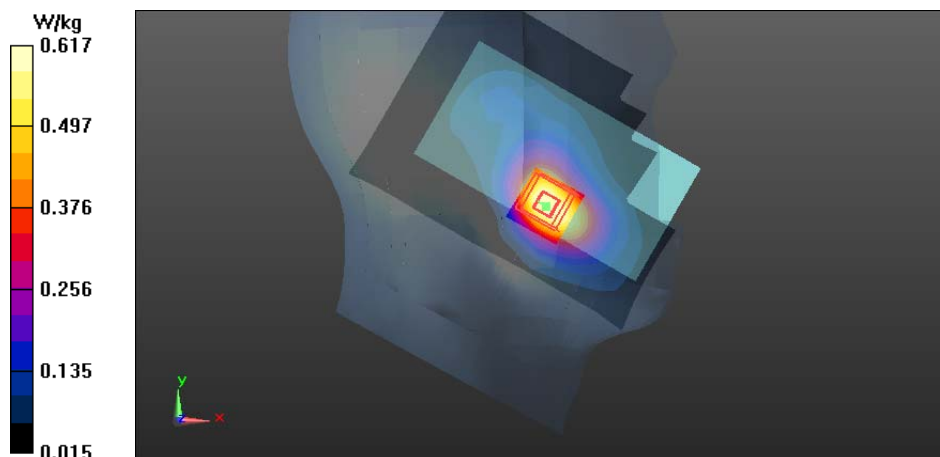
Peak SAR (extrapolated) = 0.865 W/kg

SAR(1 g) = 0.568 W/kg

SAR(10 g) = 0.359 W/kg

Power Drift = 0.09 dB

Maximum value of SAR (measured) = 0.617 W/kg



Plot9:

Date/Time: 2014-08-25 3:34:03 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947812/9

Communication System: LTE1900 (Band 2)

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Head 1900 SAR1; Medium Notes: Medium Temperature: $t=21.1$ C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 38.263$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3195
- ConvF(5.08, 5.08, 5.08); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1324; Calibrated: 2014-03-12
- Phantom: SAR1 - SAM3; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE1900 (Band 2) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 50% offset - Antenna 2/Area Scan (81x121x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 3.997 V/m

Fast SAR: SAR(1 g) = 0.406 W/kg

Fast SAR(10 g) = 0.235 W/kg

Maximum value of SAR (interpolated) = 0.456 W/kg

LTE1900 (Band 2) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 50% offset - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 3.997 V/m

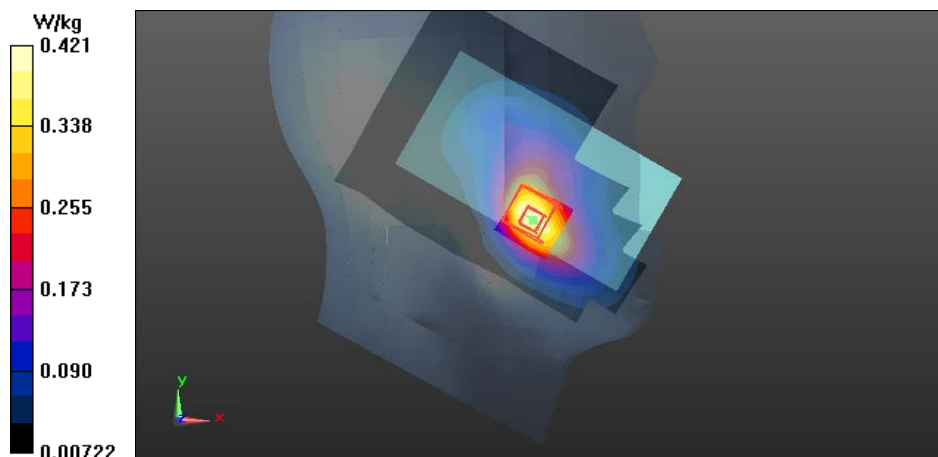
Peak SAR (extrapolated) = 0.597 W/kg

SAR(1 g) = 0.386 W/kg

SAR(10 g) = 0.239 W/kg

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 0.421 W/kg



Plot10:

Date/Time: 2014-08-27 10:45:55 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947798/0

Communication System: LTE2500 (Band 7)

Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: Head 2600 SAR4; Medium Notes: Medium Temperature: t=21.8C

Medium parameters used: f = 2510 MHz; $\sigma = 1.882$ S/m; $\epsilon_r = 37.765$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3280
- ConvF(4.35, 4.35, 4.35); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn887; Calibrated: 2014-03-31
- Phantom: SAR4 - SAM3; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE2500 (Band 7) - Right/Cheek - Low - QPSK - 20MHz - 1RB - 50% offset - Antenna 1/Area Scan (121x181x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 8.173 V/m

Fast SAR: SAR(1 g) = 1.27 W/kg

Fast SAR(10 g) = 0.681 W/kg

Maximum value of SAR (interpolated) = 1.67 W/kg

LTE2500 (Band 7) - Right/Cheek - Low - QPSK - 20MHz - 1RB - 50% offset - Antenna 1/Zoom Scan (9x8x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.173 V/m

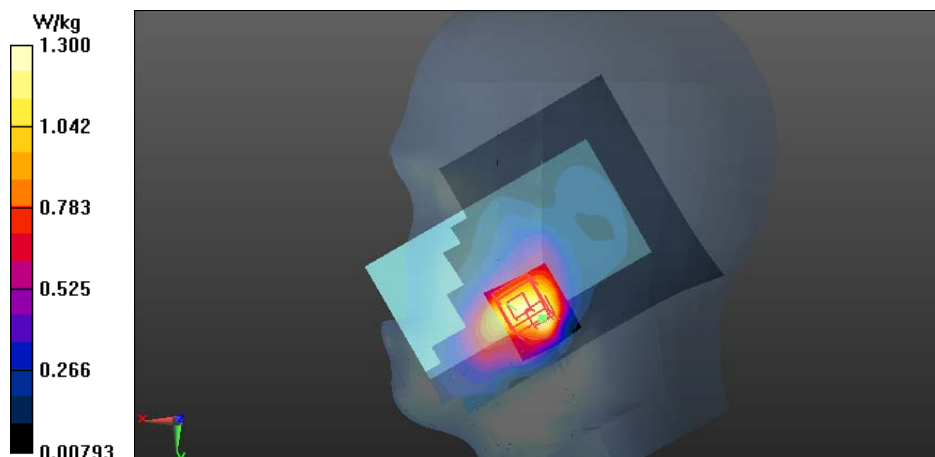
Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 1.21 W/kg

SAR(10 g) = 0.689 W/kg

Power Drift = -0.05 dB

Maximum value of SAR (measured) = 1.30 W/kg



Plot11:

Date/Time: 2014-08-05 4:49:46 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947826/9

Communication System: WLAN2450

Frequency: 2417 MHz; Duty Cycle: 1:1

Medium: Head 2450 SAR2; Medium Notes: Medium Temperature: t=21.1C

Medium parameters used: f = 2417 MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 38.537$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3823
- ConvF(6.85, 6.85, 6.85); Calibrated: 2013-09-19;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1319; Calibrated: 2013-09-18
- Phantom: SAR2 - SAM2; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WLAN2450 b-mode - Left/Cheek - Channel 2 - BPSK 1 Mbps – CC-3086/Area Scan (121x181x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 9.667 V/m

Fast SAR: SAR(1 g) = 0.469 W/kg

Fast SAR(10 g) = 0.231 W/kg

Maximum value of SAR (interpolated) = 0.522 W/kg

WLAN2450 b-mode - Left/Cheek - Channel 2 - BPSK 1 Mbps – CC-3086/Zoom Scan (9x8x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.667 V/m

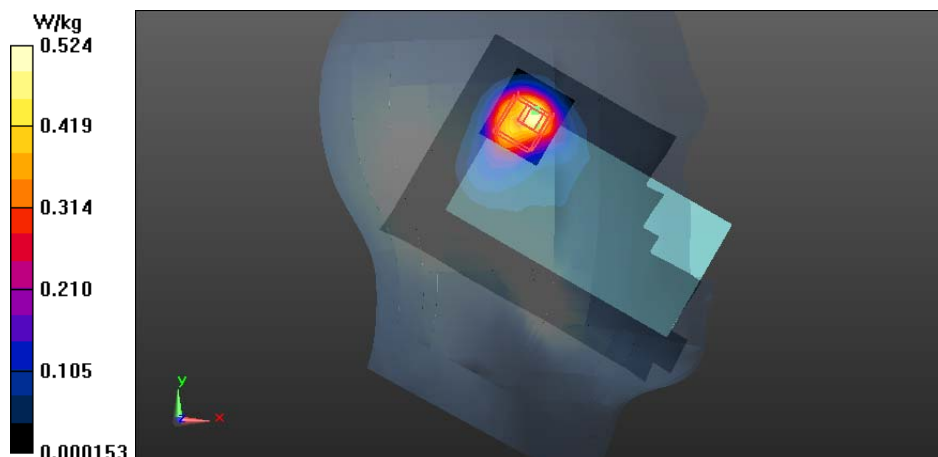
Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.460 W/kg

SAR(10 g) = 0.215 W/kg

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.524 W/kg



Plot12:

Date/Time: 2014-08-12 12:31:29 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947784/0

Communication System: LTE700 (Band 17)

Frequency: 710 MHz; Duty Cycle: 1:1

Medium: Body 750 SAR4; Medium Notes: Medium Temperature: t=21.1C

Medium parameters used: f = 710 MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 55.562$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3836
- ConvF(8.86, 8.86, 8.86); Calibrated: 2014-03-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn887; Calibrated: 2014-03-31
- Phantom: SAR4 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE700 (Band 17)/Body - Middle - QPSK - 10MHz - 1RB - 0% offset - Spacer 15mm - No Headset - Back Facing Phantom – Antenna 2/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.440 V/m

Fast SAR: SAR(1 g) = 0.499 W/kg

Fast SAR(10 g) = 0.362 W/kg

Maximum value of SAR (interpolated) = 0.526 W/kg

LTE700 (Band 17)/Body - Middle - QPSK - 10MHz - 1RB - 0% offset - Spacer 15mm - No Headset - Back Facing Phantom – Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

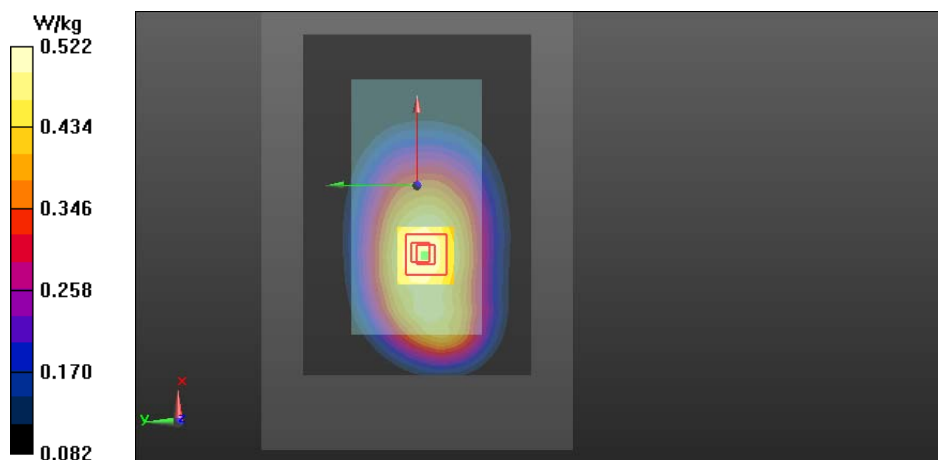
Reference Value = 20.440 V/m

Peak SAR (extrapolated) = 0.623 W/kg

SAR(1 g) = 0.500 W/kg

Maximum value of SAR (measured) = 0.522 W/kg

Power Drift = 0.01 dB



Plot13:

Date/Time: 2014-08-14 10:42:39 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: 1-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium: Body 835 SAR1; Medium Notes: Medium Temperature: t=21.2

Medium parameters used (interpolated): f = 824.2 MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 53.497$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.72, 8.72, 8.72); Calibrated: 2013-09-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2013-09-16
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

GSM850/Body - Low - Spacer 15mm - No Headset - Back Facing Phantom – Antenna 2/Area Scan (81x121x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 19.379 V/m

Fast SAR: SAR(1 g) = 0.357 W/kg

Fast SAR(10 g) = 0.256 W/kg

Maximum value of SAR (interpolated) = 0.376 W/kg

GSM850/Body - Low - Spacer 15mm - No Headset - Back Facing Phantom – Antenna 2/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

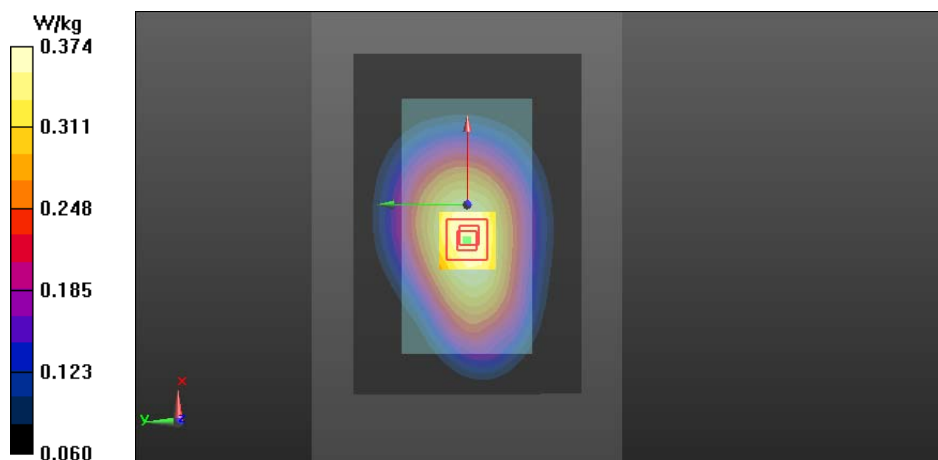
Reference Value = 19.379 V/m

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.358 W/kg

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

Power Drift = 0.03 dB



Plot14:

Date/Time: 2014-08-13 11:44:03 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Body 835 SAR1; Medium Notes: Medium Temperature: t=21.1

Medium parameters used: f = 835 MHz; $\sigma = 0.959$ S/m; $\epsilon_r = 53.459$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.72, 8.72, 8.72); Calibrated: 2013-09-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2013-09-16
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WCDMA850 (Band 5)/Body - Middle - Spacer 15mm - No Headset - Back Facing Phantom – Antenna 2/Area

Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 21.690 V/m

Fast SAR: SAR(1 g) = 0.454 W/kg

Fast SAR(10 g) = 0.325 W/kg

Maximum value of SAR (interpolated) = 0.479 W/kg

WCDMA850 (Band 5)/Body - Middle - Spacer 15mm - No Headset - Back Facing Phantom – Antenna 2/Zoom

Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

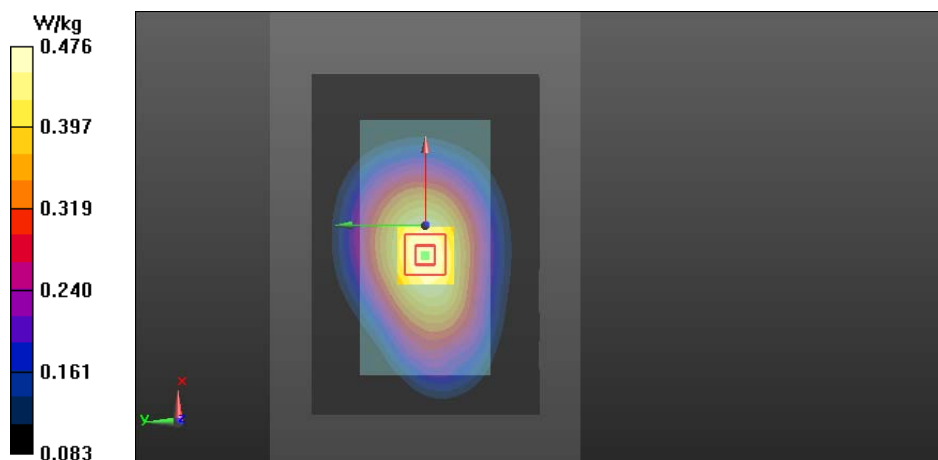
Reference Value = 21.690 V/m

Peak SAR (extrapolated) = 0.554 W/kg

SAR(1 g) = 0.455 W/kg

Maximum value of SAR (measured) = 0.476 W/kg

Power Drift = 0.00 dB



Plot15:

Date/Time: 2014-08-22 11:22:23 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: LTE850 (Band 5)

Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: Body 835 SAR1; Medium Notes: Medium Temperature: t=21.1

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.956$ S/m; $\epsilon_r = 53.599$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.72, 8.72, 8.72); Calibrated: 2013-09-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2013-09-16
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE850 (Band 5)/Body - Middle - QPSK - 10MHz - 1RB - 0% offset - Spacer 15mm - No Headset - Display Facing Phantom – Antenna 2/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.691 V/m

Fast SAR: SAR(1 g) = 0.396 W/kg

Fast SAR(10 g) = 0.284 W/kg

Maximum value of SAR (interpolated) = 0.416 W/kg

LTE850 (Band 5)/Body - Middle - QPSK - 10MHz - 1RB - 0% offset - Spacer 15mm - No Headset - Display Facing Phantom – Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

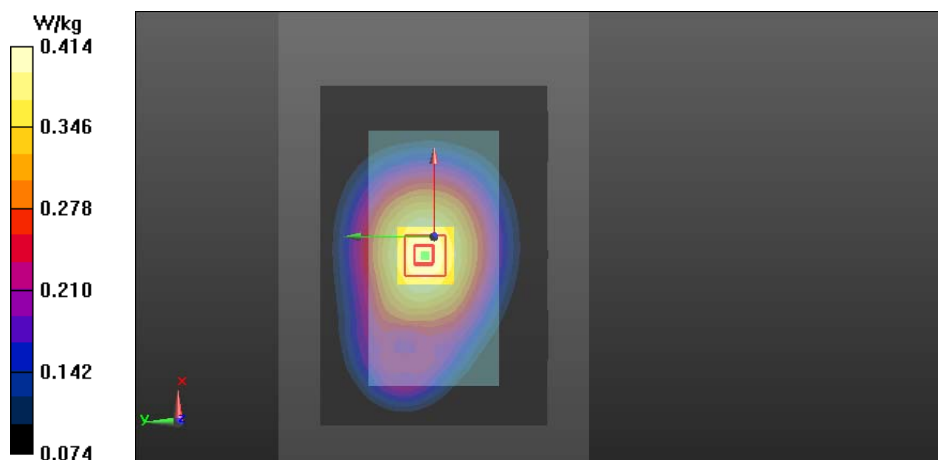
Reference Value = 20.691 V/m

Peak SAR (extrapolated) = 0.479 W/kg

SAR(1 g) = 0.395 W/kg

Maximum value of SAR (measured) = 0.414 W/kg

Power Drift = 0.00 dB



Plot16:

Date/Time: 2014-08-20 12:21:22 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947814/5

Communication System: WCDMA1700/2100 (Band 4)

Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: Body 1750 SAR3; Medium Notes: Medium Temperature: $t=21.2\text{ C}$

Medium parameters used: $f = 1753\text{ MHz}$; $\sigma = 1.468\text{ S/m}$; $\epsilon_r = 53.858$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3838
- ConvF(7.37, 7.37, 7.37); Calibrated: 2014-03-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn710; Calibrated: 2014-03-24
- Phantom: SAR3 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WCDMA1700_2100(Band 4)/Body - High - Spacer 15mm - No Headset -Back Facing Phantom – Antenna 1/Area Scan (81x121x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Reference Value = 5.465 V/m

Fast SAR: SAR(1 g) = 0.464 W/kg

Fast SAR(10 g) = 0.274 W/kg

Maximum value of SAR (interpolated) = 0.515 W/kg

WCDMA1700_2100(Band 4)/Body - High - Spacer 15mm - No Headset -Back Facing Phantom – Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.465 V/m

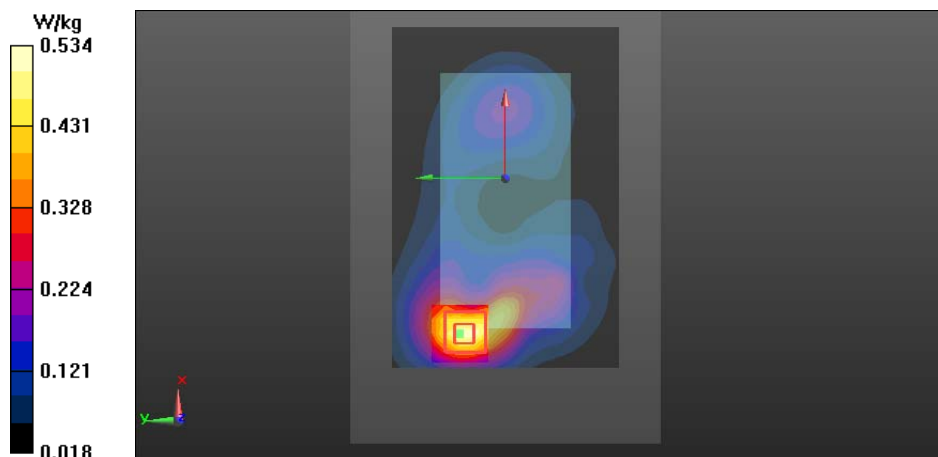
Peak SAR (extrapolated) = 0.755 W/kg

SAR(1 g) = 0.489 W/kg

SAR(10 g) = 0.294 W/kg

Power Drift = 0.05 dB

Maximum value of SAR (measured) = 0.534 W/kg



Plot17:

Date/Time: 2014-08-26 12:04:00 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947814/5

Communication System: LTE1700/2100 (Band 4)

Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: Body 1750 SAR3; Medium Notes: Medium Temperature: $t=21.2\text{ C}$

Medium parameters used (interpolated): $f = 1732.5\text{ MHz}$; $\sigma = 1.463\text{ S/m}$; $\epsilon_r = 53.235$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3838
- ConvF(7.37, 7.37, 7.37); Calibrated: 2014-03-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn710; Calibrated: 2014-03-24
- Phantom: SAR3 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

LTE1700_2100 (Band 4)/Body - Middle - QPSK - 20MHz - 50%RB - 50% offset - Spacer 15mm - No Headset - Display Facing Phantom – Antenna 1 – CC-3086/Area Scan (81x121x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Reference Value = 5.613 V/m

Fast SAR: SAR(1 g) = 0.461 W/kg

Fast SAR(10 g) = 0.265 W/kg

Maximum value of SAR (interpolated) = 0.541 W/kg

LTE1700_2100 (Band 4)/Body - Middle - QPSK - 20MHz - 50%RB - 50% offset - Spacer 15mm - No Headset - Display Facing Phantom – Antenna 1 – CC-3086/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

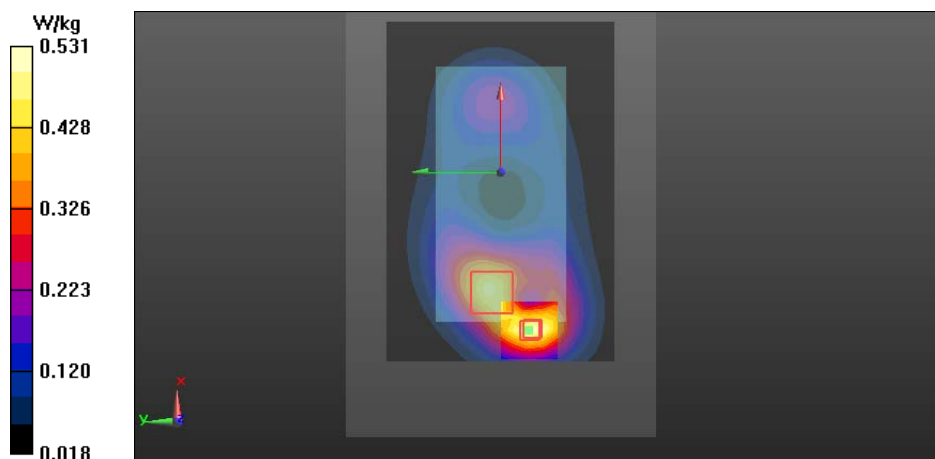
Reference Value = 5.613 V/m

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.476 W/kg

Maximum value of SAR (measured) = 0.531 W/kg

Power Drift = 0.03 dB



Plot18:

Date/Time: 2014-08-19 3:03:46 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947812/9

Communication System: 2-slot GPRS1900

Frequency: 1850.2 MHz; Duty Cycle: 1:4.19952

Medium: Body 1900 SAR1; Medium Notes: Medium Temperature: t=21.0C

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.469$ S/m; $\epsilon_r = 51.566$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3195
- ConvF(4.64, 4.64, 4.64); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1324; Calibrated: 2014-03-12
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

2-slot GPRS1900/Body - Low - Spacer 15mm - No Headset - Display Facing Phantom – Antenna 1/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 3.170 V/m

Fast SAR: SAR(1 g) = 0.359 W/kg

Fast SAR(10 g) = 0.206 W/kg

Maximum value of SAR (interpolated) = 0.410 W/kg

2-slot GPRS1900/Body - Low - Spacer 15mm - No Headset - Display Facing Phantom – Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

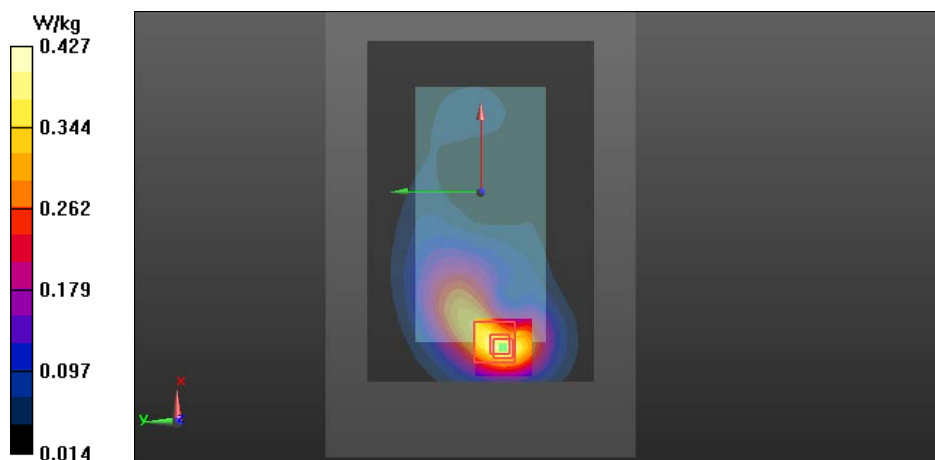
Reference Value = 3.170 V/m

Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.390 W/kg

Maximum value of SAR (measured) = 0.427 W/kg

Power Drift = 0.14 dB



Plot19:

Date/Time: 2014-08-19 11:01:43 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947812/9

Communication System: WCDMA1900 (Band 2)

Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: Body 1900 SAR1; Medium Notes: Medium Temperature: t=21.0C

Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.47$ S/m; $\epsilon_r = 51.558$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3195
- ConvF(4.64, 4.64, 4.64); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1324; Calibrated: 2014-03-12
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WCDMA 1900/Body - Low - Spacer 15mm - WH-108 - Display Facing Phantom – Antenna 1/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 4.379 V/m

Fast SAR: SAR(1 g) = 0.680 W/kg

Fast SAR(10 g) = 0.390 W/kg

Maximum value of SAR (interpolated) = 0.779 W/kg

WCDMA 1900/Body - Low - Spacer 15mm - WH-108 - Display Facing Phantom – Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.379 V/m

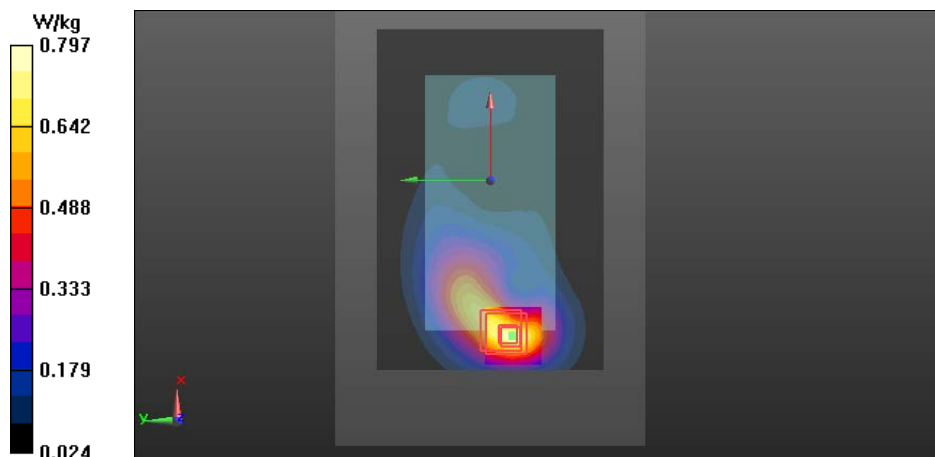
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.726 W/kg

SAR(10 g) = 0.431 W/kg

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.797 W/kg



Plot20:

Date/Time: 2014-08-26 4:06:15 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947812/9

Communication System: LTE1900 (Band 2)

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Body 1900 SAR1; Medium Notes: Medium Temperature: $t=21.2^{\circ}\text{C}$

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.502 \text{ S/m}$; $\epsilon_r = 52.062$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3195
- ConvF(4.64, 4.64, 4.64); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1324; Calibrated: 2014-03-12
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE1900 (Band 2)/Body - Middle - QPSK - 20MHz - 1RB - 50% offset - Spacer 15mm - No Headset - Display Facing Phantom – Antenna 1 – CC-3086/Area Scan (81x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 4.186 V/m

Fast SAR: SAR(1 g) = 0.512 W/kg

Fast SAR(10 g) = 0.286 W/kg

Maximum value of SAR (interpolated) = 0.589 W/kg

LTE1900 (Band 2)/Body - Middle - QPSK - 20MHz - 1RB - 50% offset - Spacer 15mm - No Headset - Display Facing Phantom – Antenna 1 – CC-3086/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

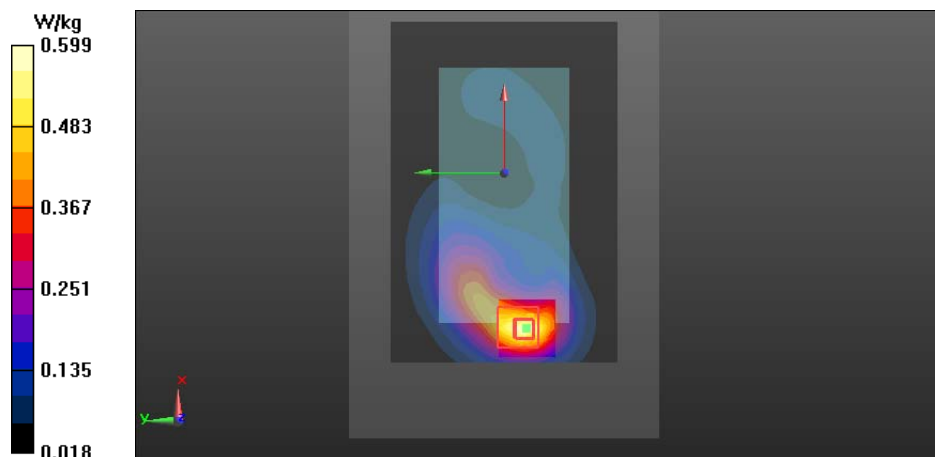
Reference Value = 4.186 V/m

Peak SAR (extrapolated) = 0.873 W/kg

SAR(1 g) = 0.540 W/kg

Maximum value of SAR (measured) = 0.599 W/kg

Power Drift = 0.02 dB



Plot21:

Date/Time: 2014-08-22 10:52:03 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947798/0

Communication System: LTE2500 (Band 7)

Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: Body 2600 SAR4; Medium Notes: Medium Temperature: $t=21.7^{\circ}\text{C}$

Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 2.052 \text{ S/m}$; $\epsilon_r = 53.292$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3280
- ConvF(3.99, 3.99, 3.99); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn887; Calibrated: 2014-03-31
- Phantom: SAR4 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE2500 (Band 7)/Body - Middle - QPSK - 20MHz - 1RB - 0% offset - Spacer 15mm - WH-108 - Back Facing Phantom - Antenna 2 - CC-3086/Area Scan (121x181x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 2.378 V/m

Fast SAR: SAR(1 g) = 0.207 W/kg

Fast SAR(10 g) = 0.102 W/kg

Maximum value of SAR (interpolated) = 0.239 W/kg

LTE2500 (Band 7)/Body - Middle - QPSK - 20MHz - 1RB - 0% offset - Spacer 15mm - WH-108 - Back Facing Phantom - Antenna 2 - CC-3086/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

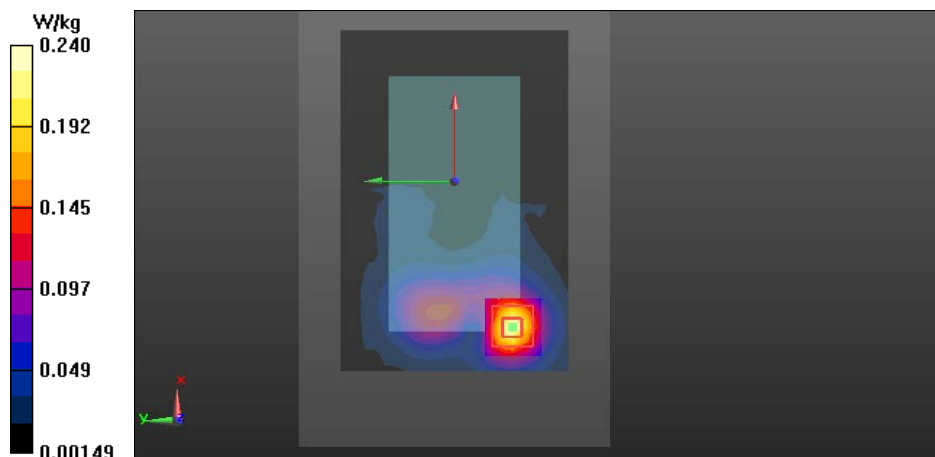
Reference Value = 2.378 V/m

Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.214 W/kg

Maximum value of SAR (measured) = 0.240 W/kg

Power Drift = 0.09 dB



Plot22:

Date/Time: 2014-08-18 2:55:29 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947826/9

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Body 2450 SAR4; Medium Notes: Medium Temperature: $t=21.4^{\circ}\text{C}$

Medium parameters used: $f = 2437\text{ MHz}$; $\sigma = 1.923\text{ S/m}$; $\epsilon_r = 52.443$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3280

- ConvF(4.2, 4.2, 4.2); Calibrated: 2014-03-20;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn887; Calibrated: 2014-03-31

- Phantom: SAR4 - TFP; Type: Not Specified; Serial: Not Specified

- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WLAN2450 b-mode/Body - Channel 6 - BPSK 1 Mbps - Spacer 15mm - WH-108 - Back Facing Phantom – CC-3086/Area Scan (121x181x1): Interpolated grid: $dx=1.000\text{ mm}$, $dy=1.000\text{ mm}$

Reference Value = 3.033 V/m

Fast SAR: SAR(1 g) = 0.053 W/kg

Fast SAR(10 g) = 0.027 W/kg

Maximum value of SAR (interpolated) = 0.0583 W/kg

WLAN2450 b-mode/Body - Channel 6 - BPSK 1 Mbps - Spacer 15mm - WH-108 - Back Facing Phantom – CC-3086/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

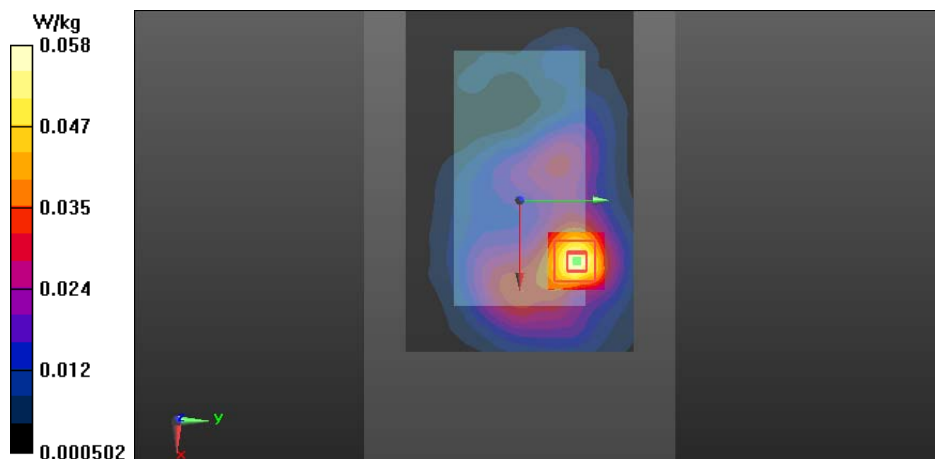
Reference Value = 3.033 V/m

Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.0582 W/kg

Power Drift = 0.15 dB



Plot23:

Date/Time: 2014-08-11 3:54:35 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947784/0

Communication System: LTE700 (Band 17)

Frequency: 710 MHz; Duty Cycle: 1:1

Medium: Body 750 SAR4; Medium Notes: Medium Temperature: t=21.1C

Medium parameters used: f = 710 MHz; $\sigma = 0.922$ S/m; $\epsilon_r = 55.544$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3836
- ConvF(8.86, 8.86, 8.86); Calibrated: 2014-03-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn887; Calibrated: 2014-03-31
- Phantom: SAR4 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE700 (Band 17)/Body - Middle - QPSK - 10MHz - 1RB - 0% offset - Spacer 10mm - No Headset - Back Facing Phantom – Antenna 2/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 19.730 V/m

Fast SAR: SAR(1 g) = 0.496 W/kg

Fast SAR(10 g) = 0.360 W/kg

Maximum value of SAR (interpolated) = 0.523 W/kg

LTE700 (Band 17)/Body - Middle - QPSK - 10MHz - 1RB - 0% offset - Spacer 10mm - No Headset - Back Facing Phantom – Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

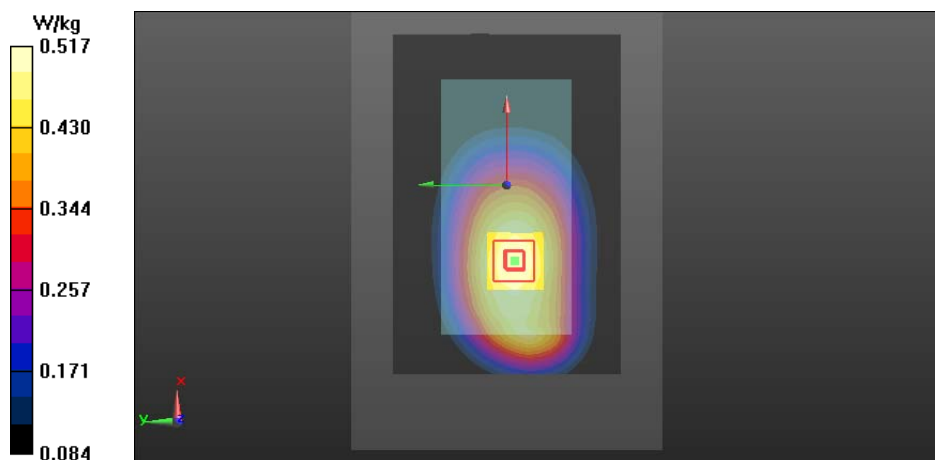
Reference Value = 19.730 V/m

Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.494 W/kg

Maximum value of SAR (measured) = 0.517 W/kg

Power Drift = 0.02 dB



Plot24:

Date/Time: 2014-08-14 1:48:25 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: 1-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium: Body 835 SAR1; Medium Notes: Medium Temperature: t=21.2

Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.947 S/m; ϵ_r = 53.497; ρ = 1000 kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.72, 8.72, 8.72); Calibrated: 2013-09-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2013-09-16
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

GSM850/Body - Low - Spacer 10mm - No Headset - Left Facing Phantom – Antenna 2/Area Scan (41x121x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 23.443 V/m

Fast SAR: SAR(1 g) = 0.499 W/kg

Fast SAR(10 g) = 0.346 W/kg

Maximum value of SAR (interpolated) = 0.532 W/kg

GSM850/Body - Low - Spacer 10mm - No Headset - Left Facing Phantom – Antenna 2/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

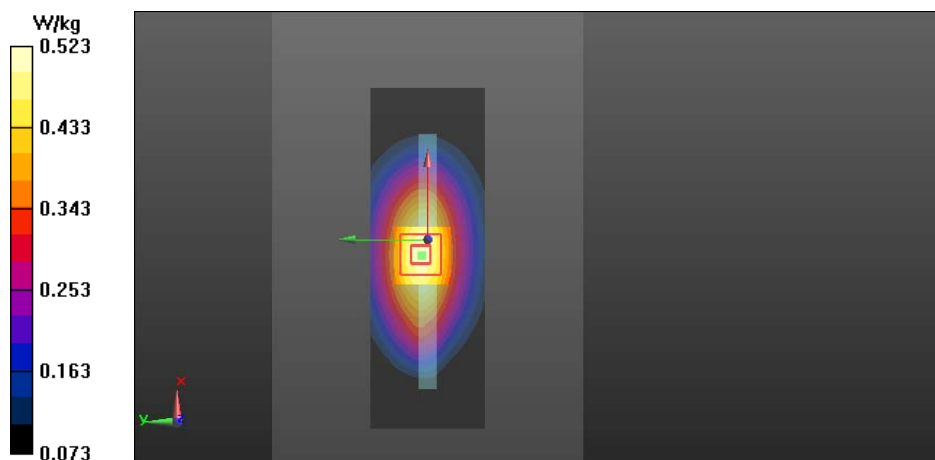
Reference Value = 23.443 V/m

Peak SAR (extrapolated) = 0.657 W/kg

SAR(1 g) = 0.491 W/kg

Maximum value of SAR (measured) = 0.523 W/kg

Power Drift = -0.03 dB



Plot25:

Date/Time: 2014-08-13 3:59:45 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Body 835 SAR1; Medium Notes: Medium Temperature: $t=21.1$

Medium parameters used: $f = 835$ MHz; $\sigma = 0.959$ S/m; $\epsilon_r = 53.459$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.72, 8.72, 8.72); Calibrated: 2013-09-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2013-09-16
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WCDMA850 (Band 5)/Body - Middle - Spacer 10mm - No Headset - Left Facing Phantom – Antenna 2/Area Scan (41x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 26.969 V/m

Fast SAR: SAR(1 g) = 0.626 W/kg

Fast SAR(10 g) = 0.433 W/kg

Maximum value of SAR (interpolated) = 0.668 W/kg

WCDMA850 (Band 5)/Body - Middle - Spacer 10mm - No Headset - Left Facing Phantom – Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

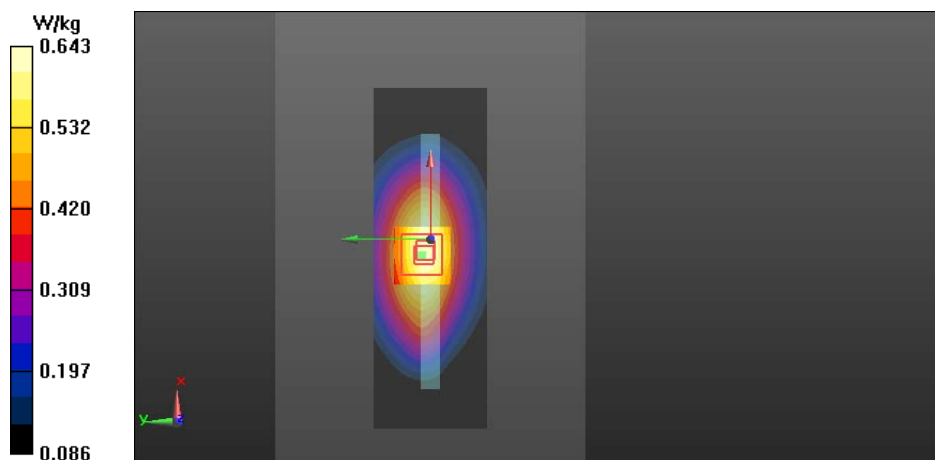
Reference Value = 26.969 V/m

Peak SAR (extrapolated) = 0.820 W/kg

SAR(1 g) = 0.609 W/kg

Maximum value of SAR (measured) = 0.643 W/kg

Power Drift = 0.07 dB



Plot26:

Date/Time: 2014-08-22 11:01:56 AM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947796/4

Communication System: LTE850 (Band 5)

Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: Body 835 SAR1; Medium Notes: Medium Temperature: t=21.1

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.956$ S/m; $\epsilon_r = 53.599$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.72, 8.72, 8.72); Calibrated: 2013-09-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2013-09-16
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE850 (Band 5)/Body - Middle - QPSK - 10MHz -1RB - 0% offset - Spacer 10mm - No Headset - Left Facing

Phantom - Antenna 2/Area Scan (41x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 24.836 V/m

Fast SAR: SAR(1 g) = 0.543 W/kg

Fast SAR(10 g) = 0.375 W/kg

Maximum value of SAR (interpolated) = 0.579 W/kg

LTE850 (Band 5)/Body - Middle - QPSK - 10MHz -1RB - 0% offset - Spacer 10mm - No Headset - Left Facing

Phantom - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

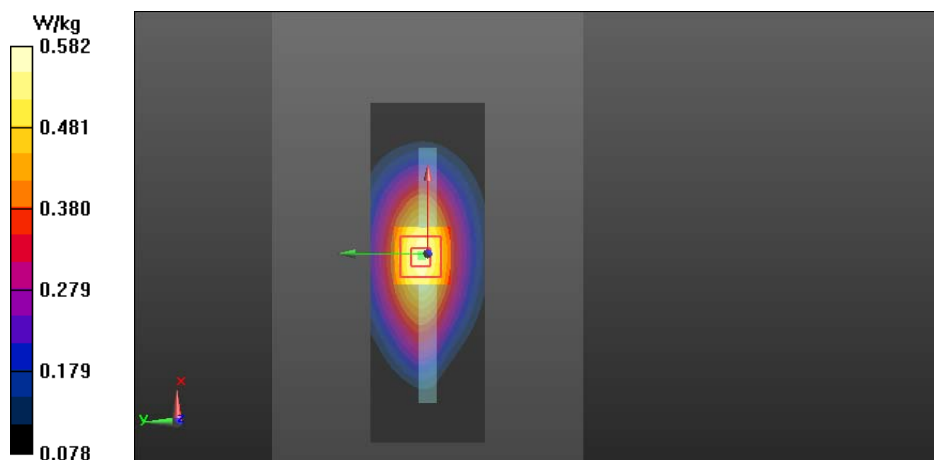
Reference Value = 24.836 V/m

Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.543 W/kg

Maximum value of SAR (measured) = 0.582 W/kg

Power Drift = 0.01 dB



Plot27:

Date/Time: 2014-08-19 6:01:20 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947792/3

Communication System: WCDMA1700/2100 (Band 4)

Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: Body 1750 SAR3; Medium Notes: Medium Temperature: $t=21.2\text{ C}$

Medium parameters used: $f = 1753\text{ MHz}$; $\sigma = 1.468\text{ S/m}$; $\epsilon_r = 53.858$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3838
- ConvF(7.37, 7.37, 7.37); Calibrated: 2014-03-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn710; Calibrated: 2014-03-24
- Phantom: SAR3 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WCDMA1700_2100(Band 4)/Body - High - Spacer 10mm - No Headset - Bottom Facing Phantom – Antenna 1/Area Scan (41x81x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Reference Value = 23.762 V/m

Fast SAR: SAR(1 g) = 0.843 W/kg

Fast SAR(10 g) = 0.424 W/kg

Maximum value of SAR (interpolated) = 1.04 W/kg

WCDMA1700_2100(Band 4)/Body - High - Spacer 10mm - No Headset - Bottom Facing Phantom – Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.762 V/m

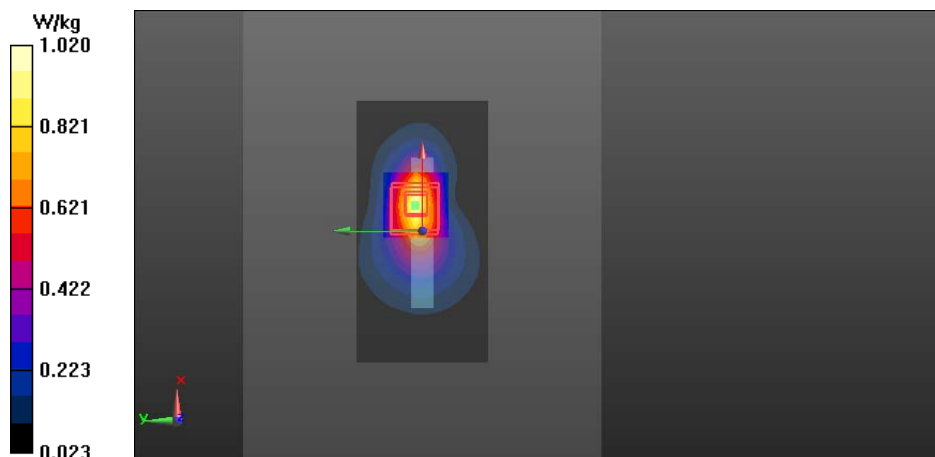
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.891 W/kg

SAR(10 g) = 0.464 W/kg

Power Drift = 0.03 dB

Maximum value of SAR (measured) = 1.02 W/kg



Plot28:

Date/Time: 2014-08-26 2:32:54 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947792/3

Communication System: LTE1700/2100 (Band 4)

Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: Body 1750 SAR3; Medium Notes: Medium Temperature: $t=21.2$ C

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.463$ S/m; $\epsilon_r = 53.235$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3838
- ConvF(7.37, 7.37, 7.37); Calibrated: 2014-03-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn710; Calibrated: 2014-03-24
- Phantom: SAR3 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

LTE1700_2100 (Band 4)/Body - Middle - QPSK - 20MHz - 1RB - 50% offset - Spacer 10mm - No Headset - Bottom Facing Phantom – Antenna 1/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 21.400 V/m

Fast SAR: SAR(1 g) = 0.723 W/kg

Fast SAR(10 g) = 0.363 W/kg

Maximum value of SAR (interpolated) = 0.898 W/kg

LTE1700_2100 (Band 4)/Body - Middle - QPSK - 20MHz - 1RB - 50% offset - Spacer 10mm - No Headset - Bottom Facing Phantom – Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

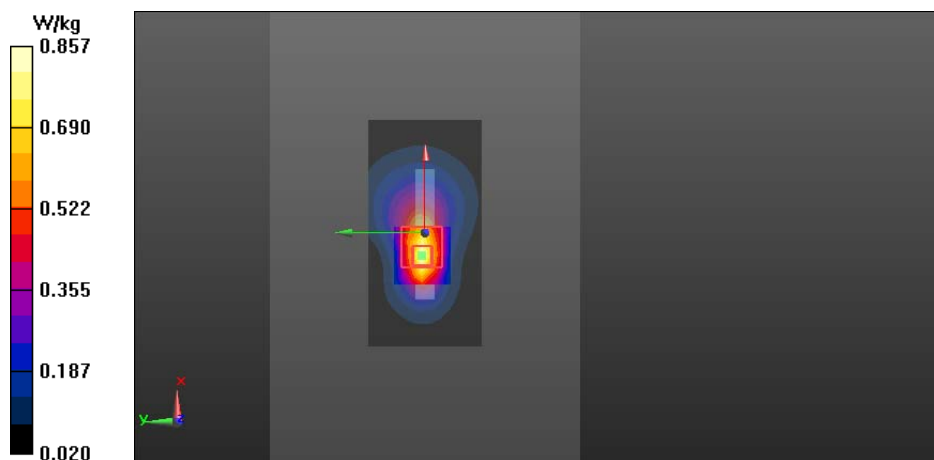
Reference Value = 21.400 V/m

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.746 W/kg

Maximum value of SAR (measured) = 0.857 W/kg

Power Drift = -0.04 dB



Plot29:

Date/Time: 2014-08-19 5:32:08 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947820/2

Communication System: 1-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium: Body 1900 SAR1; Medium Notes: Medium Temperature: t=21.0C

Medium parameters used: f = 1880 MHz; $\sigma = 1.495$ S/m; $\epsilon_r = 51.439$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3195
- ConvF(4.64, 4.64, 4.64); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1324; Calibrated: 2014-03-12
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

GSM1900/Body - Middle - Spacer 10mm - No Headset - Bottom Facing Phantom – Antenna 1 – CC-3086/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.155 V/m

Fast SAR: SAR(1 g) = 0.357 W/kg

Fast SAR(10 g) = 0.165 W/kg

Maximum value of SAR (interpolated) = 0.456 W/kg

GSM1900/Body - Middle - Spacer 10mm - No Headset - Bottom Facing Phantom – Antenna 1 – CC-3086/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

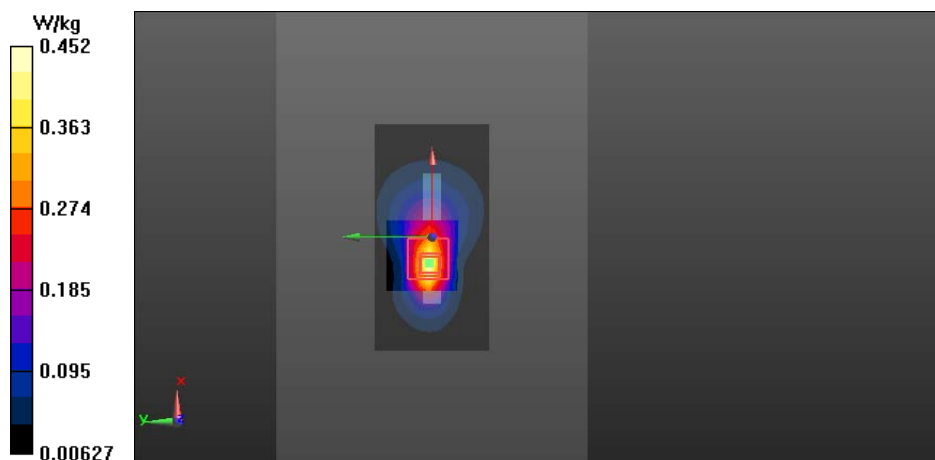
Reference Value = 14.155 V/m

Peak SAR (extrapolated) = 0.729 W/kg

SAR(1 g) = 0.393 W/kg

Maximum value of SAR (measured) = 0.452 W/kg

Power Drift = -0.02 dB



Plot30:

Date/Time: 2014-08-20 4:31:06 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947820/2

Communication System: WCDMA1900 (Band 2)

Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: Body 1900 SAR1; Medium Notes: Medium Temperature: $t=21.2^{\circ}\text{C}$

Medium parameters used (interpolated): $f = 1852.4\text{ MHz}$; $\sigma = 1.465\text{ S/m}$; $\epsilon_r = 51.383$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3195
- ConvF(4.64, 4.64, 4.64); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1324; Calibrated: 2014-03-12
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WCDMA1900/Body - low - Spacer 10mm - No Headset - Back Facing Phantom – Antenna 1/Area Scan

(81x121x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Reference Value = 3.878 V/m

Fast SAR: SAR(1 g) = 0.657 W/kg

Fast SAR(10 g) = 0.358 W/kg

Maximum value of SAR (interpolated) = 0.769 W/kg

WCDMA1900/Body - low - Spacer 10mm - No Headset - Back Facing Phantom – Antenna 1/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

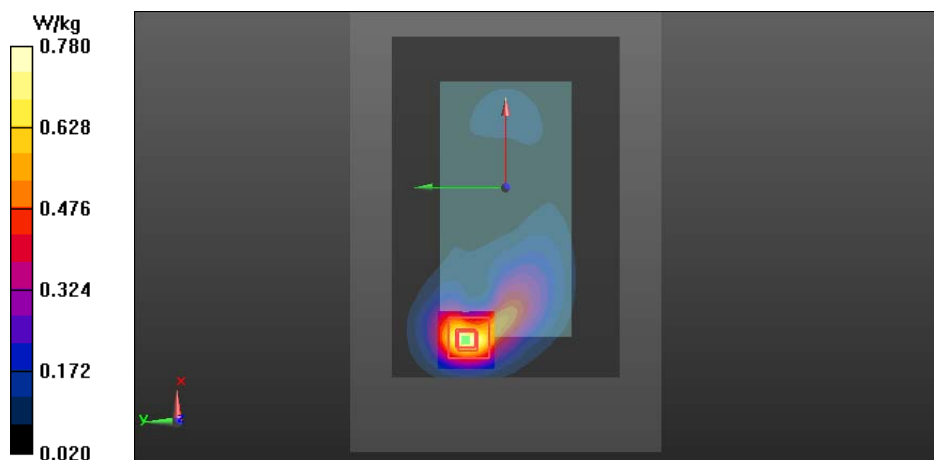
Reference Value = 3.878 V/m

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.697 W/kg

Maximum value of SAR (measured) = 0.780 W/kg

Power Drift = 0.14 dB



Plot31:

Date/Time: 2014-08-26 1:55:57 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947820/2

Communication System: LTE1900 (Band 2)

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Body 1900 SAR1; Medium Notes: Medium Temperature: t=21.2C

Medium parameters used: f = 1880 MHz; $\sigma = 1.502$ S/m; $\epsilon_r = 52.062$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3195
- ConvF(4.64, 4.64, 4.64); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1324; Calibrated: 2014-03-12
- Phantom: SAR1 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE1900 (Band 2)/Body - Middle - QPSK - 20MHz - 1RB - 50% offset - Spacer 10mm - No Headset - Bottom Facing Phantom – Antenna 1 – CC-3086/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 18.296 V/m

Fast SAR: SAR(1 g) = 0.681 W/kg

Fast SAR(10 g) = 0.332 W/kg

Maximum value of SAR (interpolated) = 0.846 W/kg

LTE1900 (Band 2)/Body - Middle - QPSK - 20MHz - 1RB - 50% offset - Spacer 10mm - No Headset - Bottom Facing Phantom – Antenna 1 – CC-3086/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

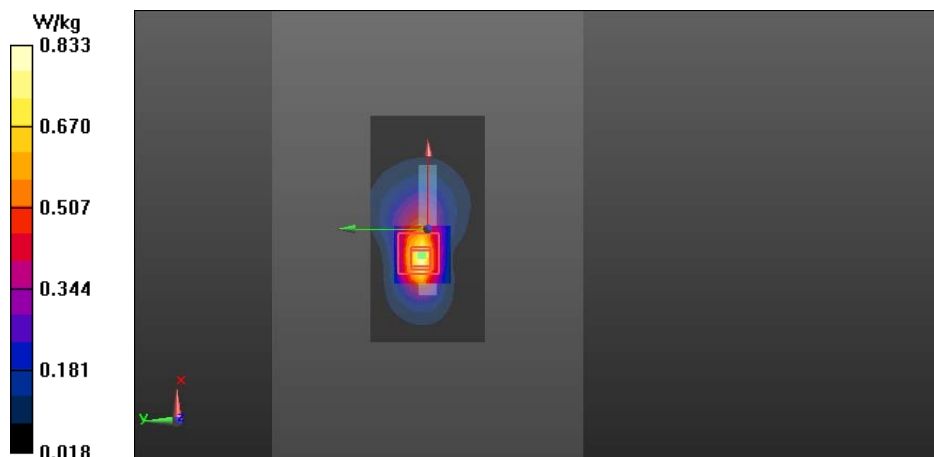
Reference Value = 18.296 V/m

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.741 W/kg

Maximum value of SAR (measured) = 0.833 W/kg

Power Drift = 0.02 dB



Plot32:

Date/Time: 2014-08-21 4:29:50 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947792/3

Communication System: LTE2500 (Band 7)

Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: Body 2600 SAR4; Medium Notes: Medium Temperature: $t=21.7^{\circ}\text{C}$

Medium parameters used: $f = 2510\text{ MHz}$; $\sigma = 2.027\text{ S/m}$; $\epsilon_r = 51.253$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3280
- ConvF(3.99, 3.99, 3.99); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn887; Calibrated: 2014-03-31
- Phantom: SAR4 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE2500 (Band 7)/Body - Low - QPSK - 20MHz - 1RB - 0% offset - Spacer 10mm - No Headset - Bottom Facing Phantom - Antenna 2 - CC-3086/Area Scan (61x121x1): Interpolated grid: $dx=1.000\text{ mm}$, $dy=1.000\text{ mm}$

Reference Value = 9.104 V/m

Fast SAR: SAR(1 g) = 0.472 W/kg

Fast SAR(10 g) = 0.205 W/kg

Maximum value of SAR (interpolated) = 0.576 W/kg

LTE2500 (Band 7)/Body - Low - QPSK - 20MHz - 1RB - 0% offset - Spacer 10mm - No Headset - Bottom Facing Phantom - Antenna 2 - CC-3086/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

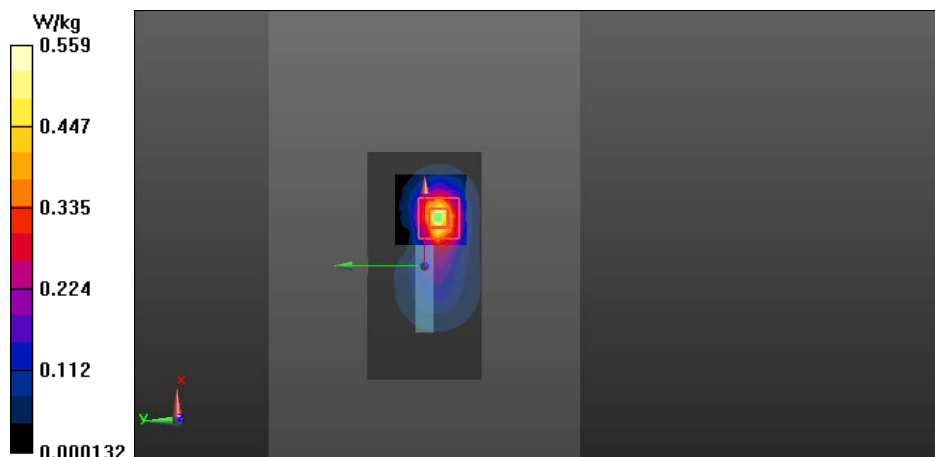
Reference Value = 9.104 V/m

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.482 W/kg

Maximum value of SAR (measured) = 0.559 W/kg

Power Drift = -0.02 dB



Plot33:

Date/Time: 2014-08-18 5:38:20 PM

Test Laboratory: TCC Microsoft

Type: RM-1039; Serial: 004402/47/947826/9

Communication System: WLAN2450

Frequency: 2457 MHz; Duty Cycle: 1:1

Medium: Body 2450 SAR4; Medium Notes: Medium Temperature: $t=21.4^{\circ}\text{C}$

Medium parameters used: $f = 2457 \text{ MHz}$; $\sigma = 1.957 \text{ S/m}$; $\epsilon_r = 52.523$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3280
- ConvF(4.2, 4.2, 4.2); Calibrated: 2014-03-20;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn887; Calibrated: 2014-03-31
- Phantom: SAR4 - TFP; Type: Not Specified; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

WLAN 2450 b-mode/Body - Channel 10 - BPSK 1 Mbps - Spacer 10mm - No Headset - Top Facing Phantom /Area Scan (61x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 8.235 V/m

Fast SAR: SAR(1 g) = 0.136 W/kg

Fast SAR(10 g) = 0.068 W/kg

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

WLAN 2450 b-mode/Body - Channel 10 - BPSK 1 Mbps - Spacer 10mm - No Headset - Top Facing Phantom /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.235 V/m

Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.150 W/kg

Power Drift = -0.01 dB

