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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Model: RFS121LW

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DTM/GSM 850

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Date: 3/13/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Right-Hand-Side HSL - DTM 850

Communication System: DTM850 (2slots); Communication System Band: DTM850; Frequency: 836.8 MHz

Medium Parameters used: f=836.8 MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 40.493$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - DTM 850/Touch Position -

DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.274 V/m; **Power Drift = -0.067 dB**

Right-Hand-Side HSL - DTM 850/Touch Position -

DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.274 V/m; **Power Drift = -0.067 dB**

Averaged SAR: SAR(1g) = 0.673 W/kg; SAR(10g) = 0.500 W/kg

Maximum value of SAR (interpolated) = 0.822 W/kg

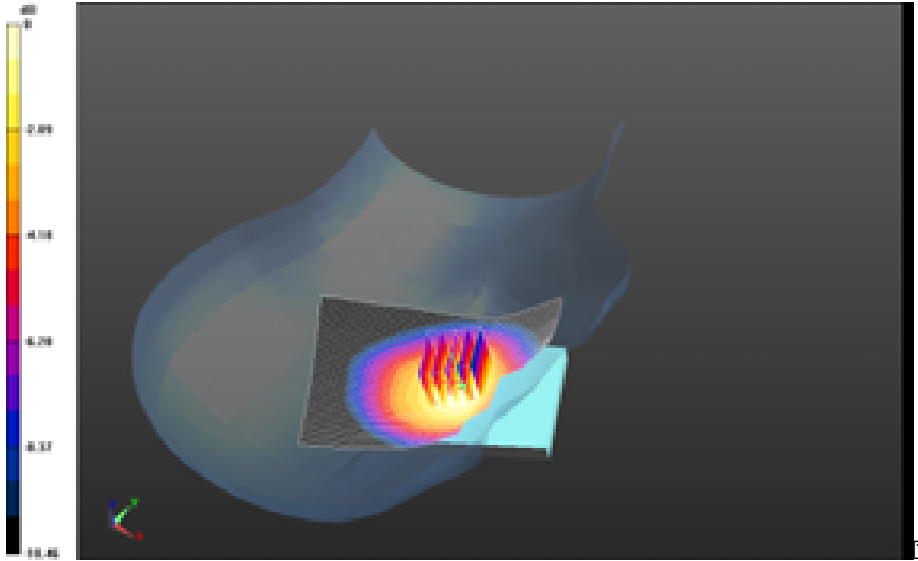
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

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2503A-RFR100LW



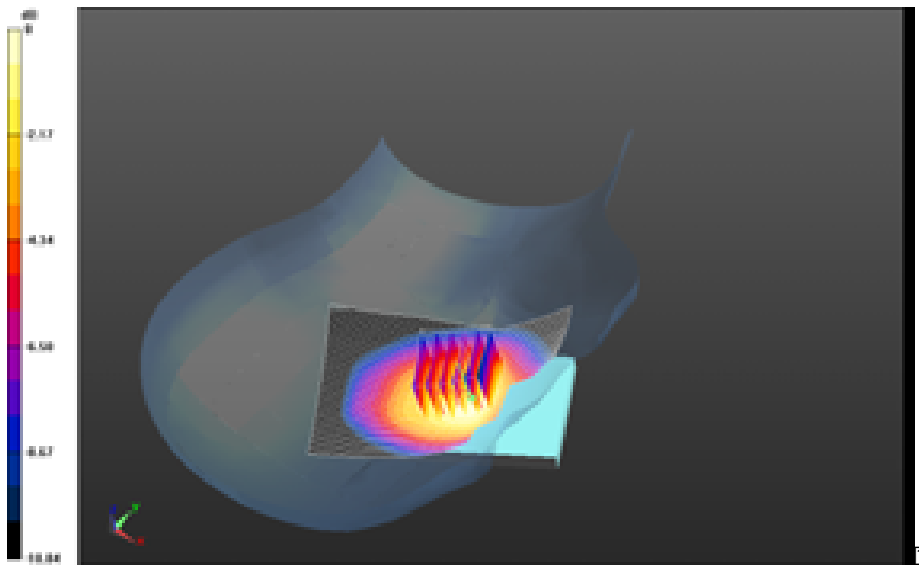
0 dB = 0.733 W/kg = -1.35 dBW/kg

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Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan128_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.099 V/m; **Power Drift = -0.149 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan128_amb_temp_23.3C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.099 V/m; **Power Drift = -0.149 dB**

Averaged SAR: SAR(1g) = 0.677 W/kg; SAR(10g) = 0.507 W/kg
Maximum value of SAR (interpolated) = 0.833 W/kg



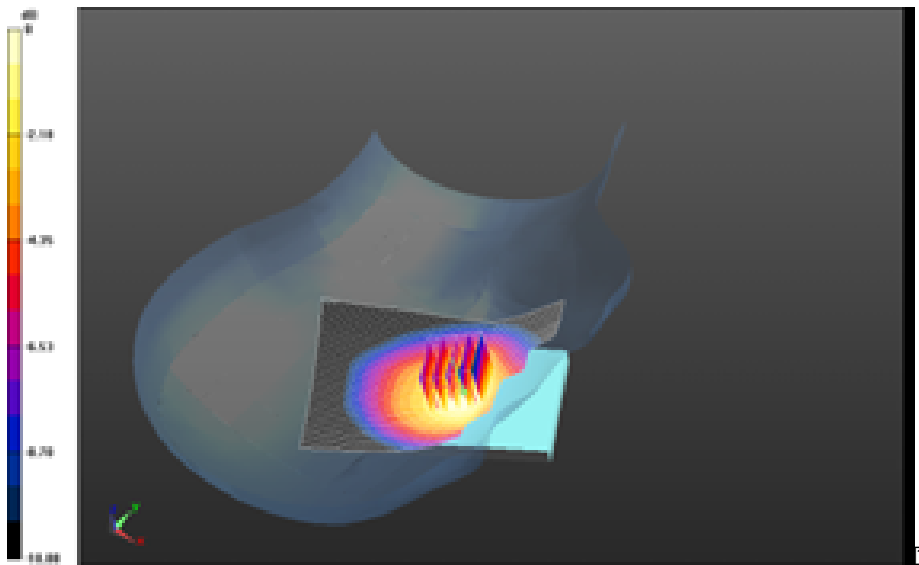
0 dB = 0.733 W/kg = -1.35 dBW/kg

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Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.705 V/m; **Power Drift = -0.112 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.705 V/m; **Power Drift = -0.112 dB**

Averaged SAR: SAR(1g) = 0.817 W/kg; SAR(10g) = 0.603 W/kg
Maximum value of SAR (interpolated) = 0.995 W/kg



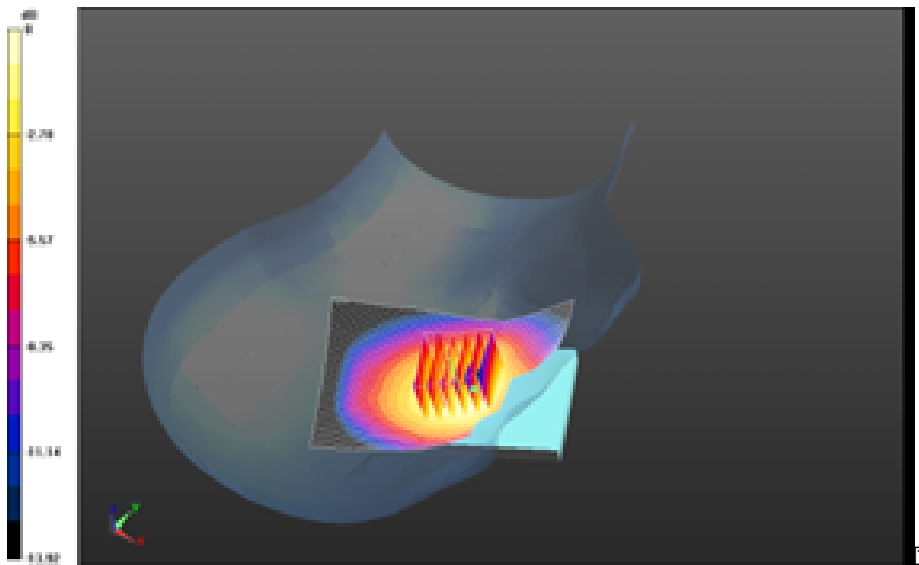
0 dB = 0.732 W/kg = -1.35 dBW/kg

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Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C_2nd Scan/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.527 V/m; **Power Drift = -0.217 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C_2nd Scan/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.527 V/m; **Power Drift = -0.217 dB**

Averaged SAR: SAR(1g) = 0.722 W/kg; SAR(10g) = 0.538 W/kg
Maximum value of SAR (interpolated) = 0.888 W/kg



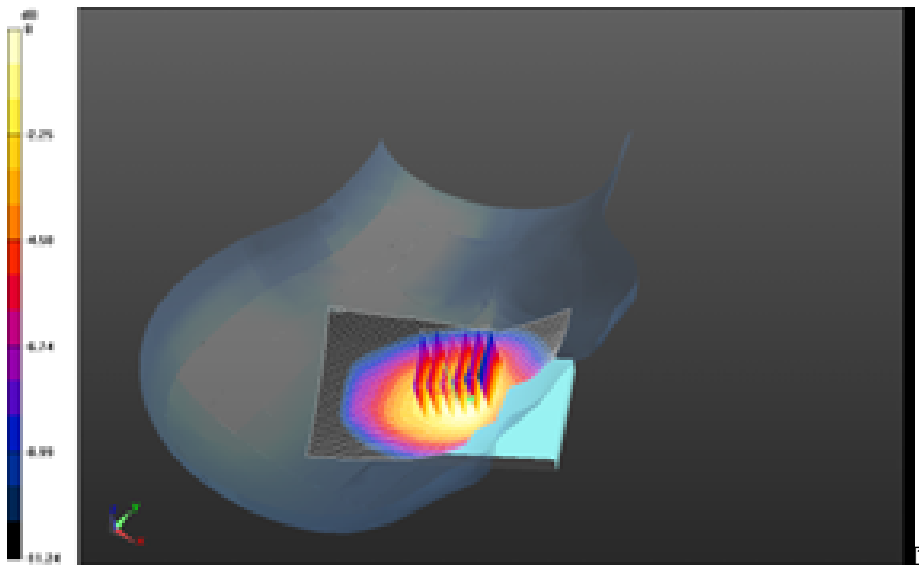
0 dB = 0.889 W/kg = -0.51 dBW/kg

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Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan251_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.505 V/m; **Power Drift = 0.051 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan251_amb_temp_23.3C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.505 V/m; **Power Drift = 0.051 dB**

Averaged SAR: SAR(1g) = 0.728 W/kg; SAR(10g) = 0.543 W/kg
Maximum value of SAR (interpolated) = 0.890 W/kg

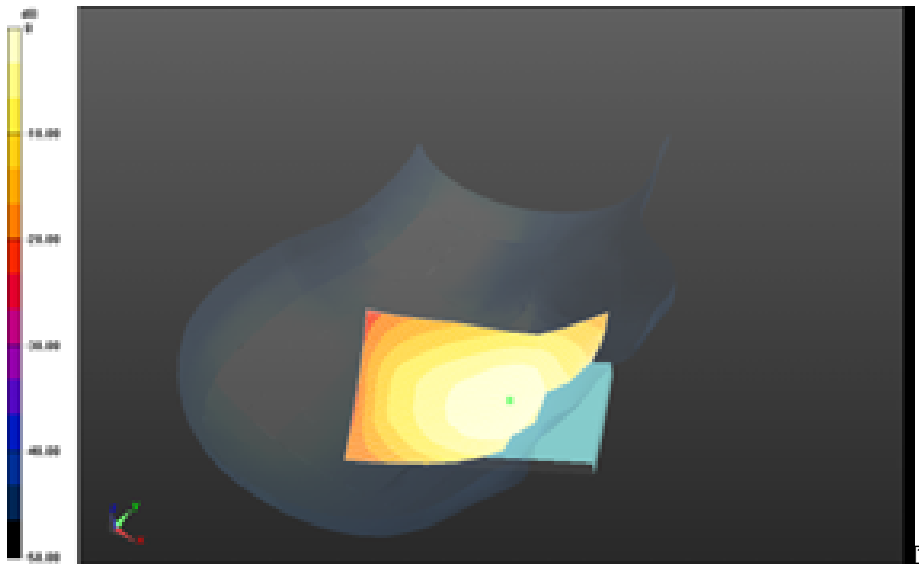


0 dB = 0.788 W/kg = -1.03 dBW/kg


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Right-Hand-Side HSL - EDGE 850/Touch Position - EDGE850_4-Slots_chan190_amb_temp_23.3C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 10.159 V/m; **Power Drift = 0.050 dB**

Fast SAR: SAR(1g) = 0.576 W/kg; SAR(10g) = 0.389 W/kg
Maximum value of SAR (interpolated) = 0.662 W/kg



0 dB = 0.783 W/kg = -1.06 dBW/kg

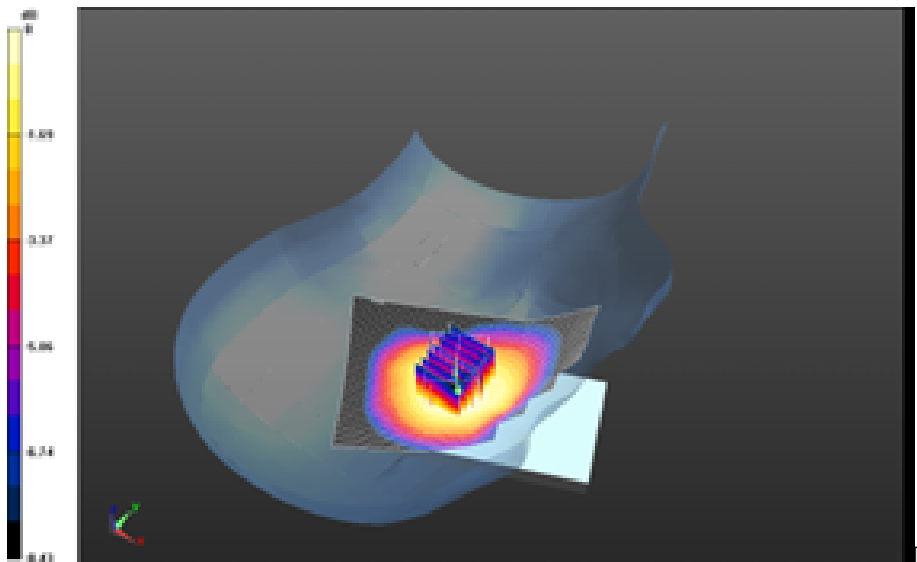
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Right-Hand-Side HSL - DTM 850/Tilt Position -
DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 16.903 V/m; **Power Drift = -0.301 dB**


Right-Hand-Side HSL - DTM 850/Tilt Position -
DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 16.903 V/m; **Power Drift = -0.301 dB**
Averaged SAR: SAR(1g) = 0.403 W/kg; SAR(10g) = 0.305 W/kg
Maximum value of SAR (interpolated) = 0.496 W/kg

Right-Hand-Side HSL - DTM 850/Tilt Position -
DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan 2 (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.903 V/m; **Power Drift = -0.292 dB**

Averaged SAR: SAR(1g) = 0.404 W/kg; SAR(10g) = 0.306 W/kg
Maximum value of SAR (interpolated) = 0.499 W/kg



0 dB = 0.662 W/kg = -1.79 dBW/kg

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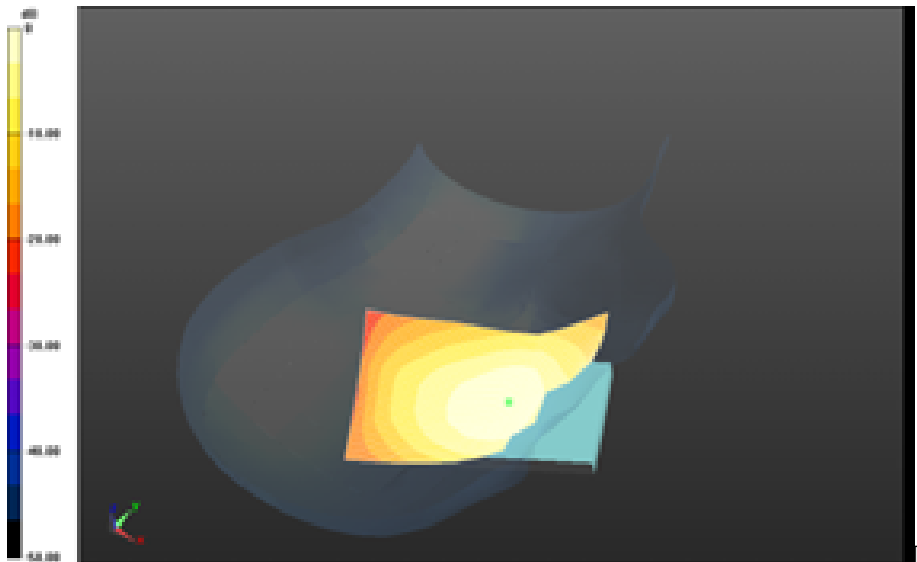
Right-Hand-Side HSL - DTM 850/Touch Position -

GSM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm


Reference Value = 9.791 V/m; **Power Drift = -0.129 dB**

Fast SAR: SAR(1g) = 0.585 W/kg; SAR(10g) = 0.394 W/kg

Maximum value of SAR (interpolated) = 0.674 W/kg



0 dB = 0.443 W/kg = -3.54 dBW/kg

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Date: 3/13/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Left-Hand-Side HSL - DTM 850

Communication System: DTM850 (2slots); Communication System Band: DTM850; Frequency: 836.8 MHz

Medium Parameters used: f=836.8 MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 40.493$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - DTM 850/Touch Position -

DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.209 V/m; **Power Drift = -0.346 dB**

Left-Hand-Side HSL - DTM 850/Touch Position -


DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0:

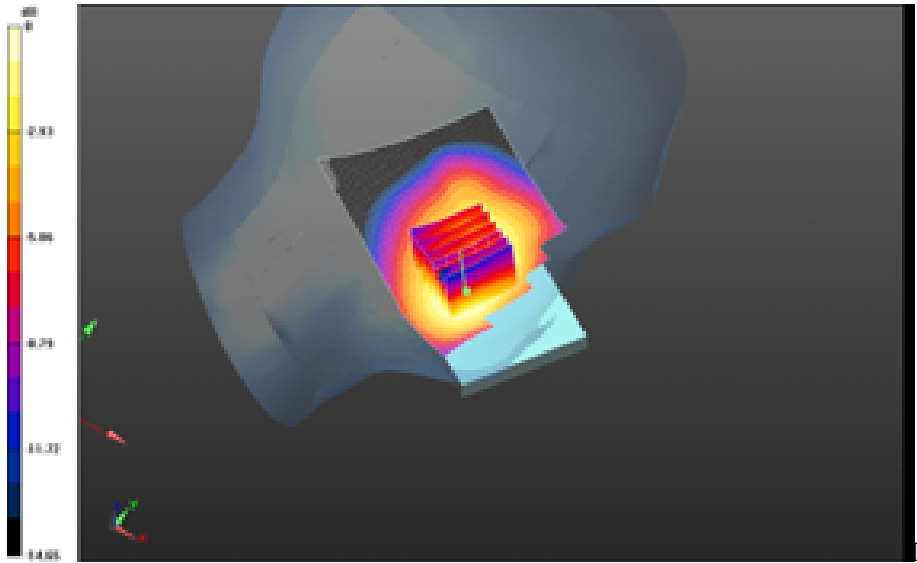
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.209 V/m; **Power Drift = -0.346 dB**


Averaged SAR: SAR(1g) = 0.620 W/kg; SAR(10g) = 0.444 W/kg

Maximum value of SAR (interpolated) = 0.883 W/kg

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0 dB = 0.696 W/kg = -1.57 dBW/kg

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Left-Hand-Side HSL - DTM 850/Tilt Position -

DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 15.516 V/m; **Power Drift = 0.183 dB**

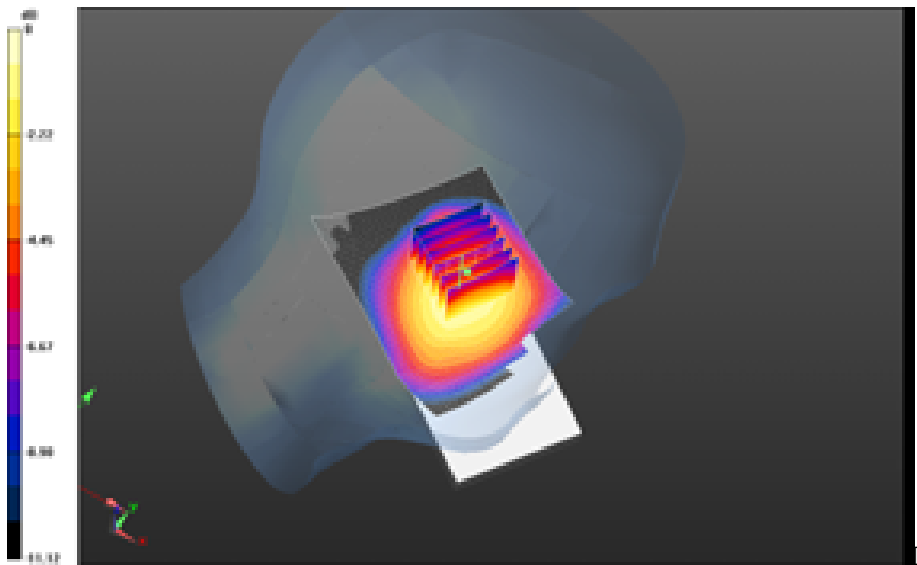
Left-Hand-Side HSL - DTM 850/Tilt Position -

DTM850_chan190_amb_temp_23.2C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 15.516 V/m; **Power Drift = 0.183 dB**

Averaged SAR: SAR(1g) = 0.406 W/kg; SAR(10g) = 0.298 W/kg

Maximum value of SAR (interpolated) = 0.525 W/kg



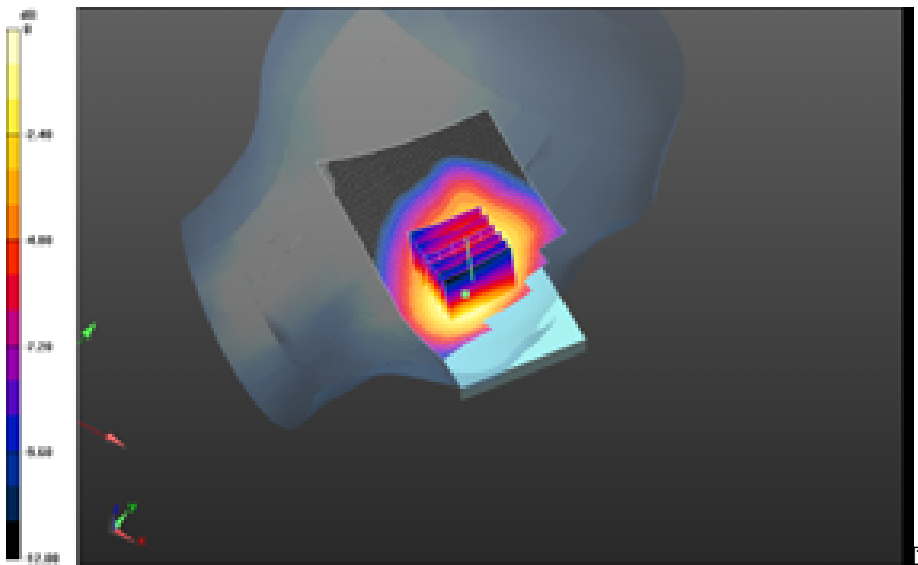
0 dB = 0.696 W/kg = -1.57 dBW/kg

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Left-Hand-Side HSL - DTM 850/Touch Position - GSM850_chan190_amb_temp_23.5C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.819 V/m; **Power Drift = -0.00953 dB**

Left-Hand-Side HSL - DTM 850/Touch Position - GSM850_chan190_amb_temp_23.5C_liq_temp_20.9C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.819 V/m; **Power Drift = -0.00953 dB**


Averaged SAR: SAR(1g) = 0.515 W/kg; SAR(10g) = 0.366 W/kg
Maximum value of SAR (interpolated) = 0.731 W/kg



0 dB = 0.449 W/kg = -3.48 dBW/kg

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UMTS Band V

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Date: 3/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Right-Hand-Side HSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;

Frequency: 836.4 MHz

Medium Parameters used: f=836.4 MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 43.191$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - UMTS Band V/Touch Position -

UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.3C/Area Scan (61x91x1):

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

Reference Value = 10.480 V/m; **Power Drift = -0.081 dB**

Right-Hand-Side HSL - UMTS Band V/Touch Position -


UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0:

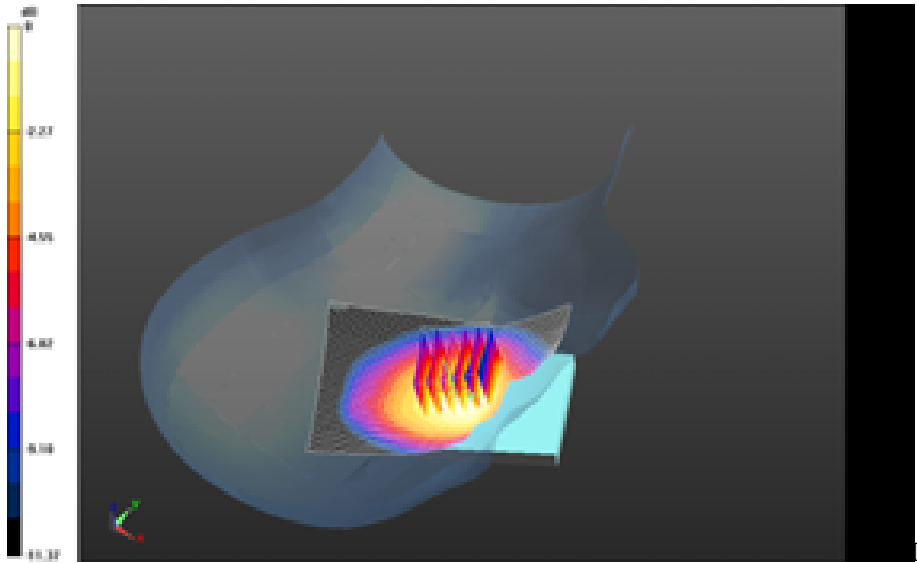
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.480 V/m; **Power Drift = -0.081 dB**


Averaged SAR: SAR(1g) = 0.531 W/kg; SAR(10g) = 0.395 W/kg

Maximum value of SAR (interpolated) = 0.654 W/kg

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0 dB = 0.581 W/kg = -2.36 dBW/kg

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Right-Hand-Side HSL - UMTS Band V/Tilt Position -

UMTS_Band_V_chan4182_amb_temp_C_liq_temp_C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 14.337 V/m; **Power Drift = -0.058 dB**

Right-Hand-Side HSL - UMTS Band V/Tilt Position -

UMTS_Band_V_chan4182_amb_temp_C_liq_temp_C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 14.337 V/m; **Power Drift = -0.058 dB**

Averaged SAR: SAR(1g) = 0.312 W/kg; SAR(10g) = 0.237 W/kg

Maximum value of SAR (interpolated) = 0.382 W/kg

Right-Hand-Side HSL - UMTS Band V/Tilt Position -

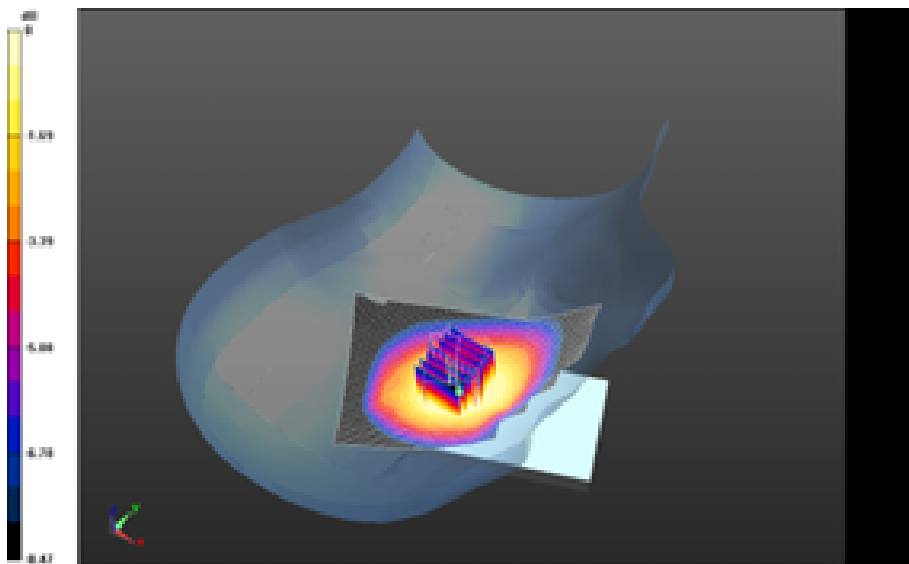
UMTS_Band_V_chan4182_amb_temp_C_liq_temp_C/Zoom Scan 2 (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 14.337 V/m; **Power Drift = -0.017 dB**

Averaged SAR: SAR(1g) = 0.312 W/kg; SAR(10g) = 0.238 W/kg

Maximum value of SAR (interpolated) = 0.385 W/kg



0 dB = 0.581 W/kg = -2.36 dBW/kg

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Date: 3/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Left-Hand-Side HSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;

Frequency: 836.4 MHz

Medium Parameters used: f=836.4 MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 43.191$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band V/Touch Position -

UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1):

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

Reference Value = 8.997 V/m; **Power Drift = 0.097 dB**

Left-Hand-Side HSL - UMTS Band V/Touch Position -


UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (26x26x36)/Cube 0:

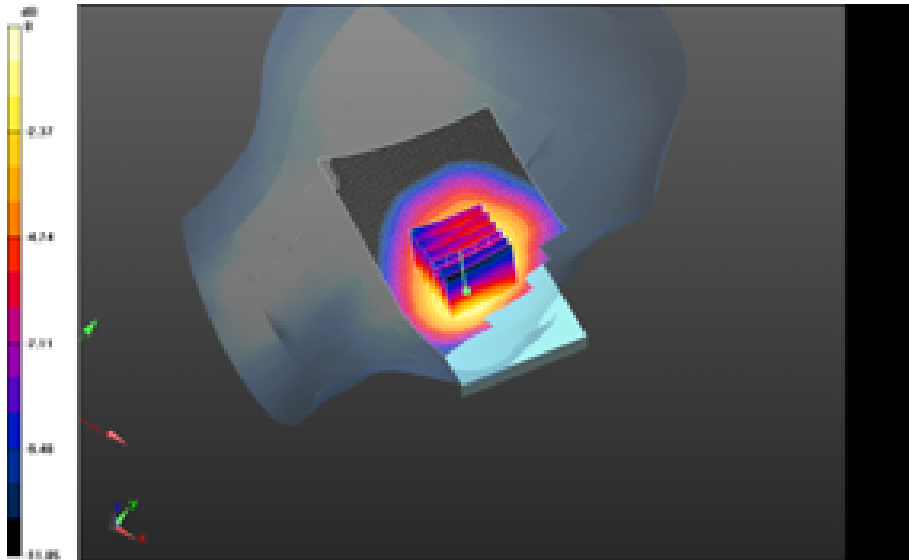
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 8.997 V/m; **Power Drift = 0.097 dB**


Averaged SAR: SAR(1g) = 0.503 W/kg; SAR(10g) = 0.360 W/kg

Maximum value of SAR (interpolated) = 0.698 W/kg

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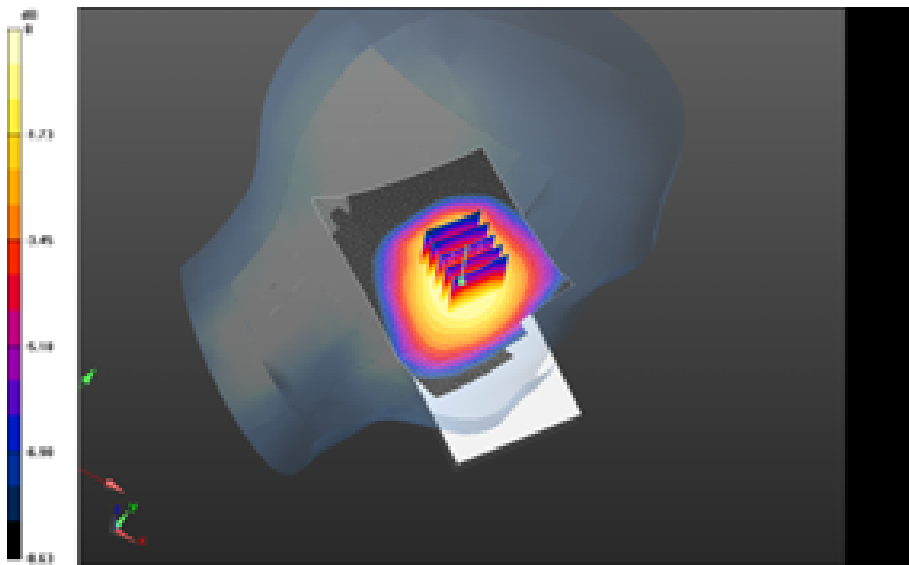
0 dB = 0.564 W/kg = -2.49 dBW/kg

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Left-Hand-Side HSL - UMTS Band V/Tilt Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.343 V/m; **Power Drift = 0.016 dB**

Left-Hand-Side HSL - UMTS Band V/Tilt Position - UMTS_Band_V_chan4182_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.343 V/m; **Power Drift = 0.016 dB**


Averaged SAR: SAR(1g) = 0.299 W/kg; SAR(10g) = 0.226 W/kg
Maximum value of SAR (interpolated) = 0.372 W/kg



0 dB = 0.564 W/kg = -2.49 dBW/kg

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	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

DTM/GSM 1900

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	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 3/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Right-Hand-Side HSL - DTM 1900

Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1850.2 MHz

Medium Parameters used: $f=1850.2$ MHz; $\sigma = 1.371$ S/m; $\epsilon_r = 38.516$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

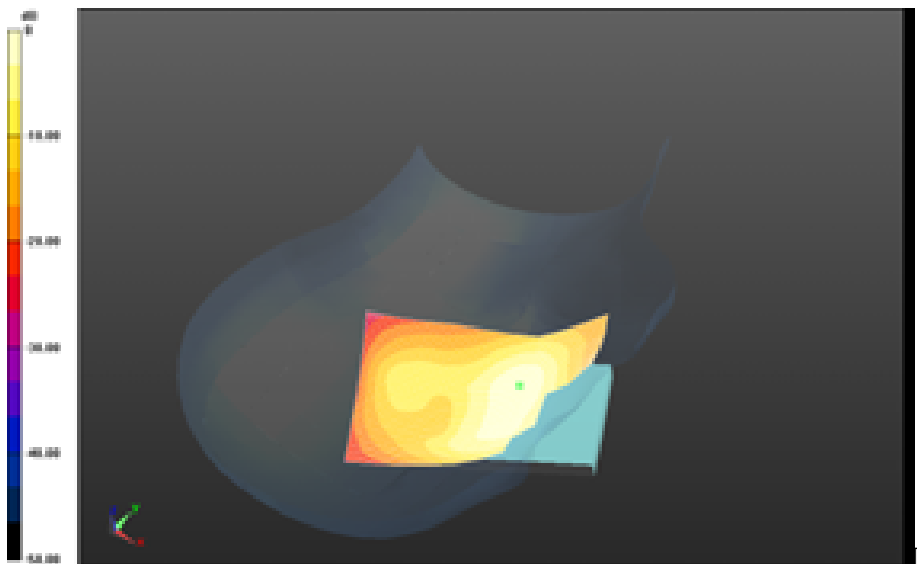
Right-Hand-Side HSL - DTM 1900/Touch Position -


DTM1900_chan512_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.174 V/m; **Power Drift = -0.159 dB**

Fast SAR: SAR(1g) = 0.911 W/kg; SAR(10g) = 0.501 W/kg; Secondary SAR(1g) = 0.195 W/kg

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

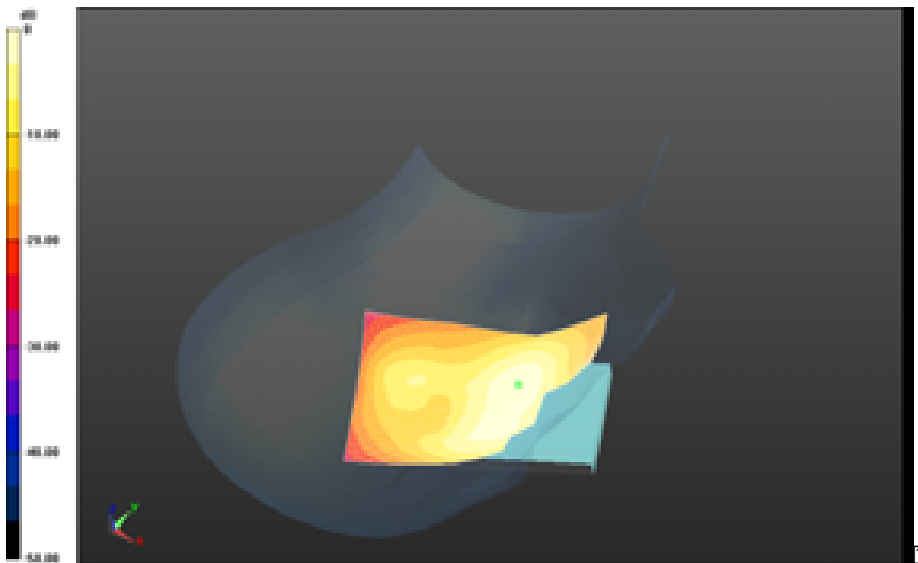


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	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW


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

Right-Hand-Side HSL - DTM 1900/Touch Position -
DTM1900_chan661_amb_temp_23.3C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.776 V/m; **Power Drift = -0.129 dB**

Fast SAR: SAR(1g) = 0.853 W/kg; SAR(10g) = 0.465 W/kg; Secondary SAR(1g) = 0.197 W/kg
Maximum value of SAR (interpolated) = 1.10 W/kg



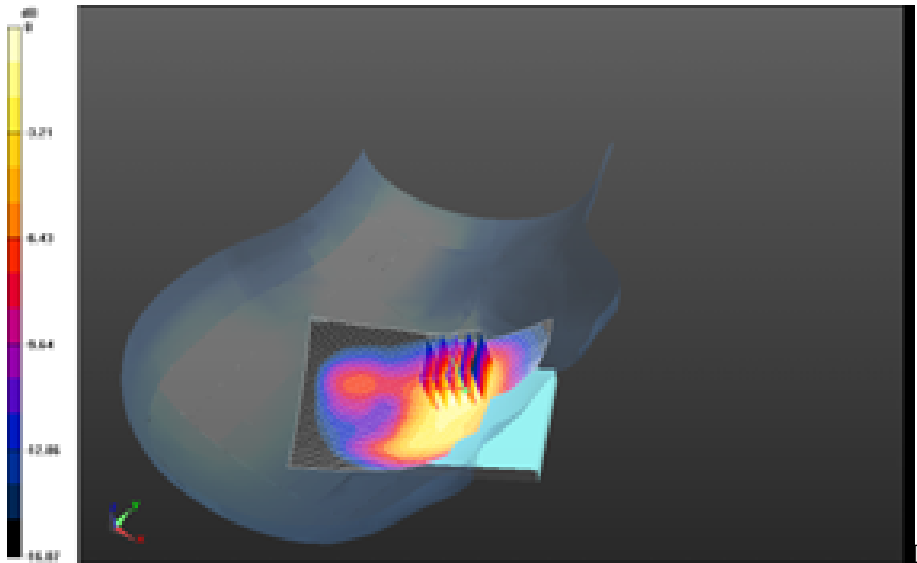
0 dB = 1.17 W/kg = 0.68 dBW/kg

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Right-Hand-Side HSL - DTM 1900/Touch Position -
DTM1900_chan810_amb_temp_23.7C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.692 V/m; **Power Drift = -0.021 dB**

Right-Hand-Side HSL - DTM 1900/Touch Position -
DTM1900_chan810_amb_temp_23.7C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.692 V/m; **Power Drift = -0.021 dB**

Averaged SAR: SAR(1g) = 0.909 W/kg; SAR(10g) = 0.552 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg



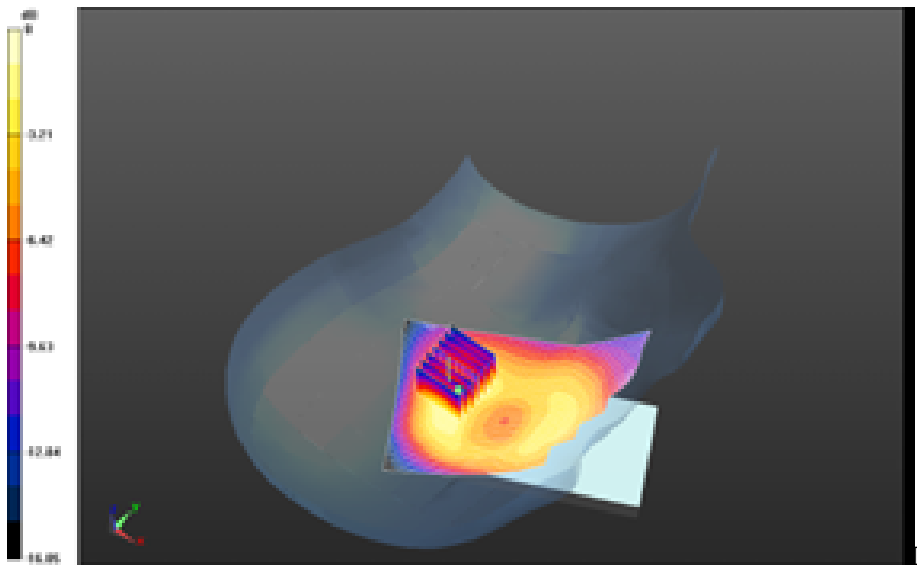
0 dB = 1.10 W/kg = 0.41 dBW/kg

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Right-Hand-Side HSL - DTM 1900/Tilt Position -
DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.550 V/m; **Power Drift = 0.176 dB**

Right-Hand-Side HSL - DTM 1900/Tilt Position -
DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 12.550 V/m; **Power Drift = 0.176 dB**

Averaged SAR: SAR(1g) = 0.239 W/kg; SAR(10g) = 0.141 W/kg
Maximum value of SAR (interpolated) = 0.367 W/kg

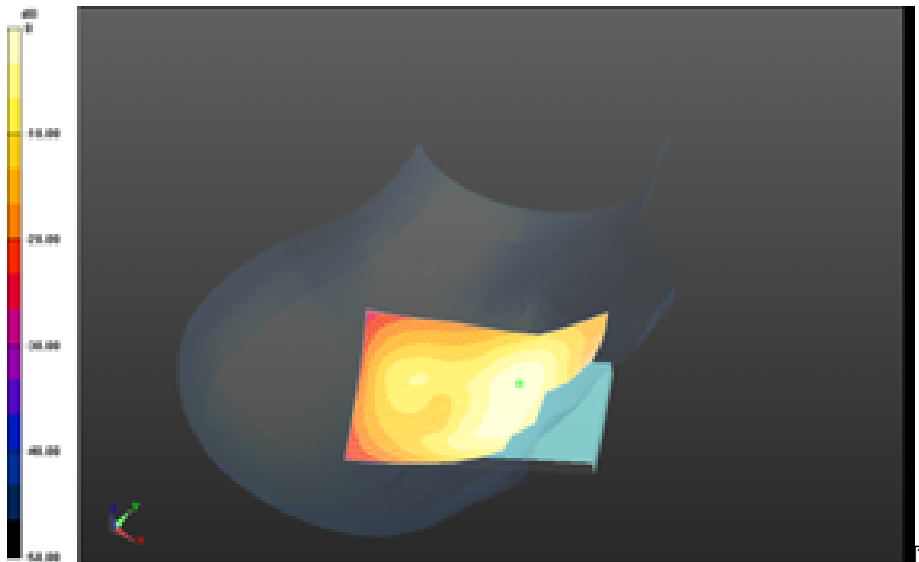


0 dB = 1.07 W/kg = 0.29 dBW/kg


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Right-Hand-Side HSL - DTM 1900/Touch Position -
GSM1900_chan512_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.502 V/m; **Power Drift = 0.0089 dB**

Fast SAR: SAR(1g) = 0.779 W/kg; SAR(10g) = 0.427 W/kg; Secondary SAR(1g) = 0.181 W/kg
Maximum value of SAR (interpolated) = 0.998 W/kg



0 dB = 0.263 W/kg = -5.80 dBW/kg

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	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 3/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Left-Hand-Side HSL - DTM 1900

Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1850.2 MHz

Medium Parameters used: $f=1850.2$ MHz; $\sigma = 1.371$ S/m; $\epsilon_r = 38.516$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan512_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.605 V/m; **Power Drift = -0.110 dB**

Fast SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.623 W/kg; Secondary SAR(1g) = 0.342 W/kg

Maximum value of SAR (interpolated) = 1.31 W/kg

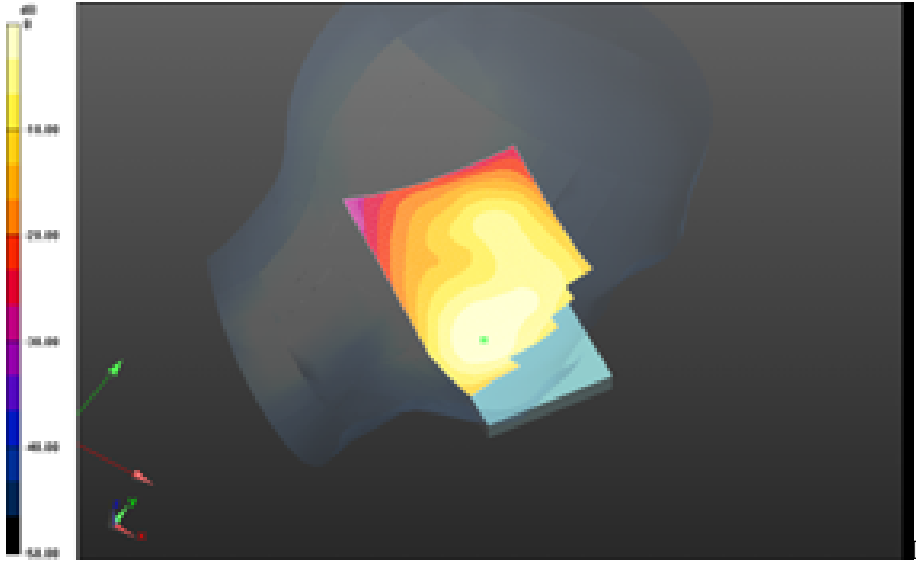
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

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2503A-RFR100LW



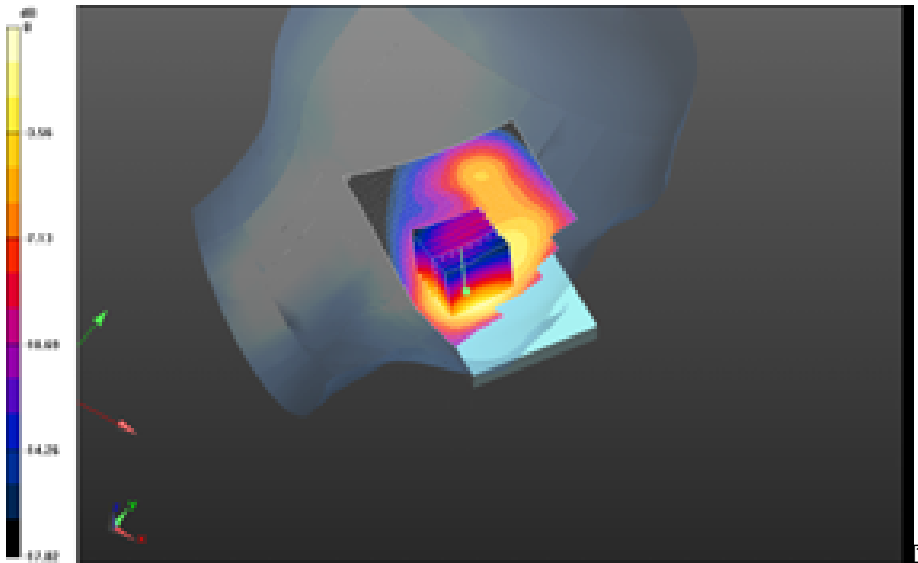
0 dB = 1.31 W/kg = 1.17 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.837 V/m; **Power Drift = 0.096 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Zoom Scan (36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.837 V/m; **Power Drift = 0.096 dB**

Averaged SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.660 W/kg
Maximum value of SAR (interpolated) = 1.79 W/kg



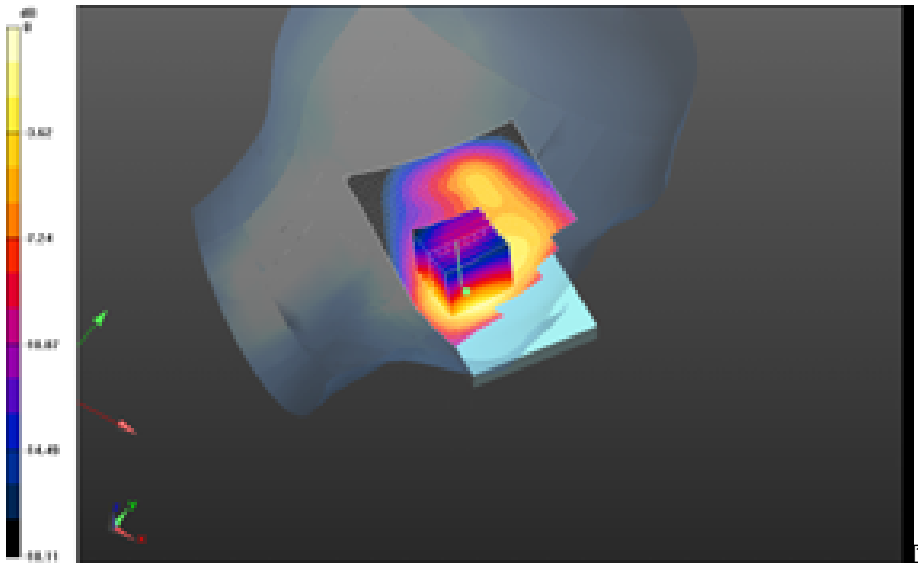
0 dB = 1.31 W/kg = 1.17 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Touch Position -
DTM1900_chan661_2nd_Scan_amb_temp_23.2C_liq_temp_22.0C/Area Scan (61x81x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.608 V/m; **Power Drift = -0.135 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position -
DTM1900_chan661_2nd_Scan_amb_temp_23.2C_liq_temp_22.0C/Zoom Scan
(36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 9.608 V/m; **Power Drift = -0.135 dB**

Averaged SAR: SAR(1g) = 1.07 W/kg; SAR(10g) = 0.632 W/kg
Maximum value of SAR (interpolated) = 1.69 W/kg

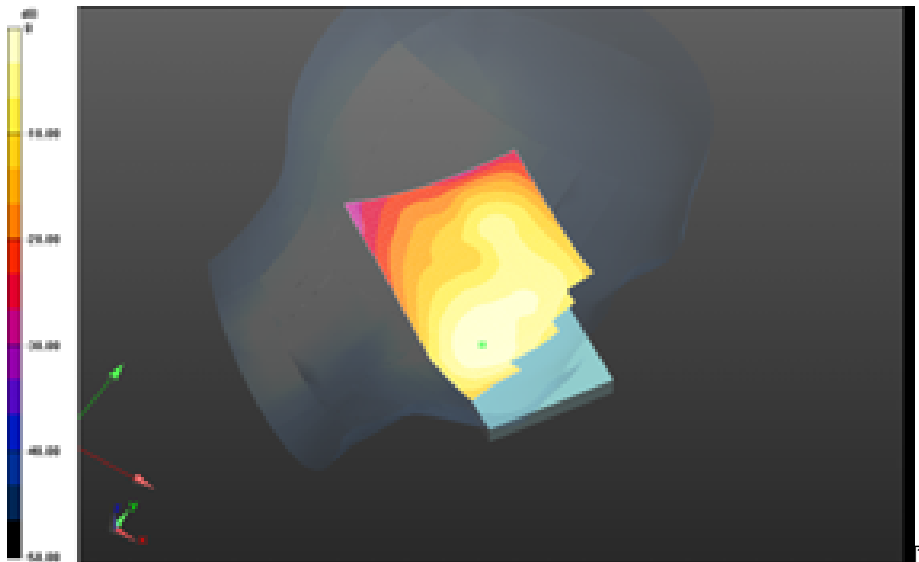


0 dB = 1.23 W/kg = 0.90 dBW/kg


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Left-Hand-Side HSL - DTM 1900/Touch Position -
DTM1900_chan810_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.537 V/m; **Power Drift = 0.049 dB**

Fast SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.603 W/kg; Secondary SAR(1g) = 0.306 W/kg
Maximum value of SAR (interpolated) = 1.31 W/kg

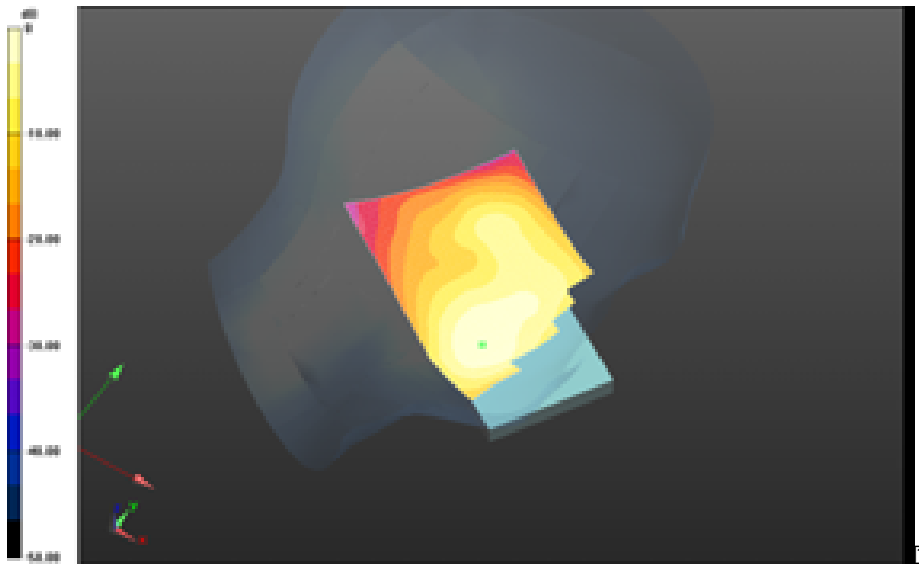


0 dB = 1.18 W/kg = 0.72 dBW/kg


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Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_3-slots_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 8.429 V/m; **Power Drift = 0.112 dB**

Fast SAR: SAR(1g) = 0.987 W/kg; SAR(10g) = 0.567 W/kg; Secondary SAR(1g) = 0.315 W/kg
Maximum value of SAR (interpolated) = 1.21 W/kg



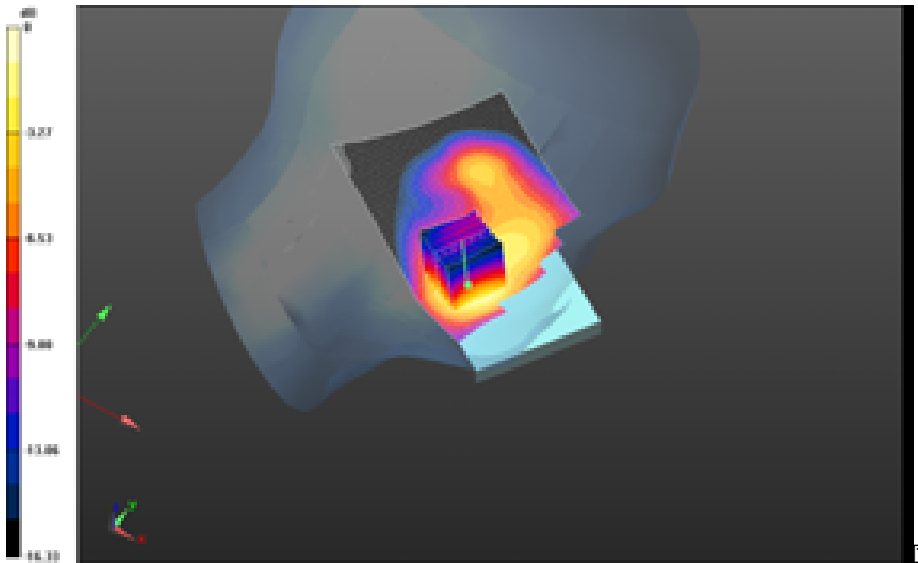
0 dB = 0.485 W/kg = -3.14 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Touch Position – EDGE1900_4-slots_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.511 V/m; **Power Drift = -0.00309 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - EDGE1900_4-slots_chan661_amb_temp_23.8C_liq_temp_21.2C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.511 V/m; **Power Drift = -0.00309 dB**

Averaged SAR: SAR(1g) = 0.884 W/kg; SAR(10g) = 0.528 W/kg
Maximum value of SAR (interpolated) = 1.36 W/kg



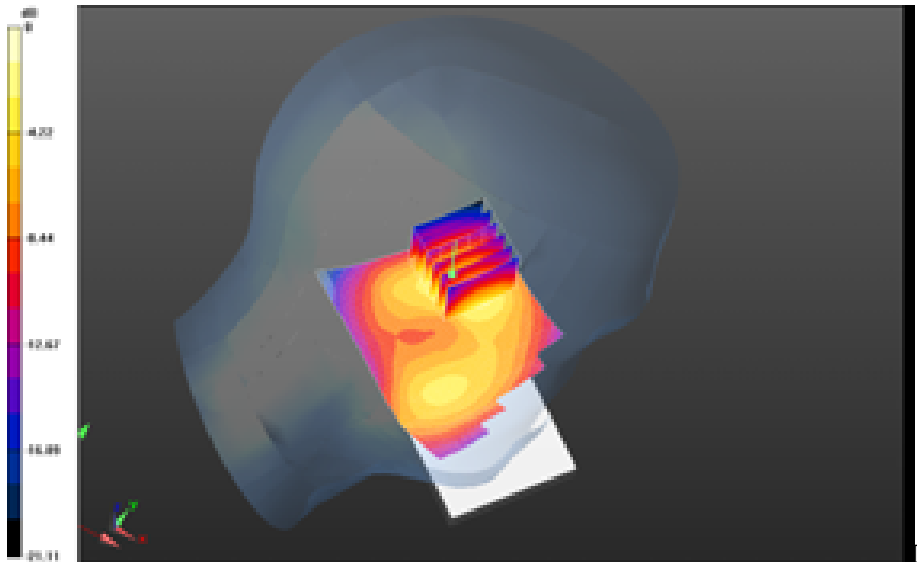
0 dB = 1.21 W/kg = 0.83 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Tilt Position -
DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.925 V/m; **Power Drift = 0.058 dB**

Left-Hand-Side HSL - DTM 1900/Tilt Position -
DTM1900_chan661_amb_temp_23.8C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.925 V/m; **Power Drift = 0.058 dB**

Averaged SAR: SAR(1g) = 0.406 W/kg; SAR(10g) = 0.229 W/kg
Maximum value of SAR (interpolated) = 0.648 W/kg

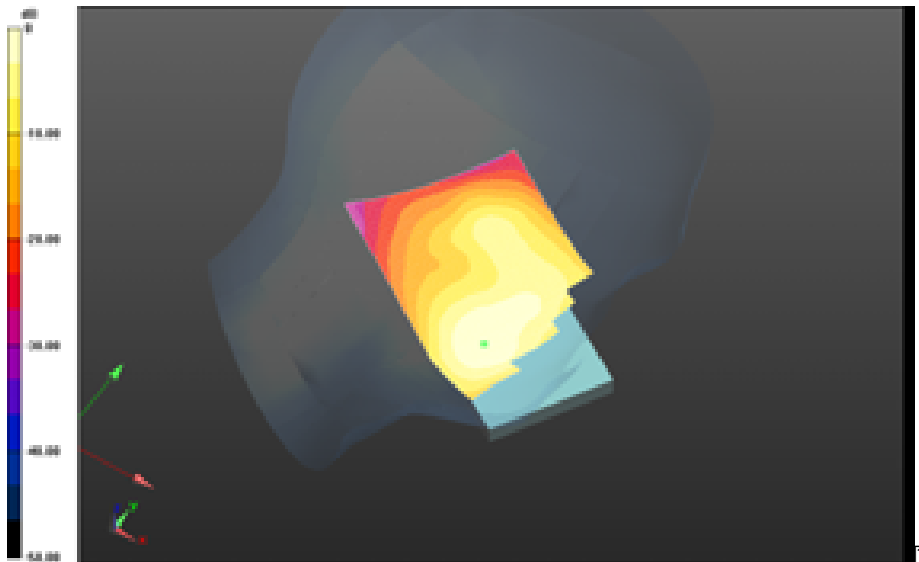


0 dB = 1.31 W/kg = 1.17 dBW/kg


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Left-Hand-Side HSL - DTM 1900/Touch Position -
GSM1900_chan661_amb_temp_23.4C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.925 V/m; **Power Drift = 0.061 dB**


Fast SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.606 W/kg; Secondary SAR(1g) = 0.363 W/kg
Maximum value of SAR (interpolated) = 1.29 W/kg



0 dB = 0.966 W/kg = -0.15 dBW/kg

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UMTS Band II

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Date: 3/11/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Right-Hand-Side HSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.345$ S/m; $\epsilon_r = 38.849$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9262_amb_temp_23.7C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.34 W/kg

Right-Hand-Side HSL - UMTS Band II/Touch Position -


UMTS_band_II_chan9262_amb_temp_23.7C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:

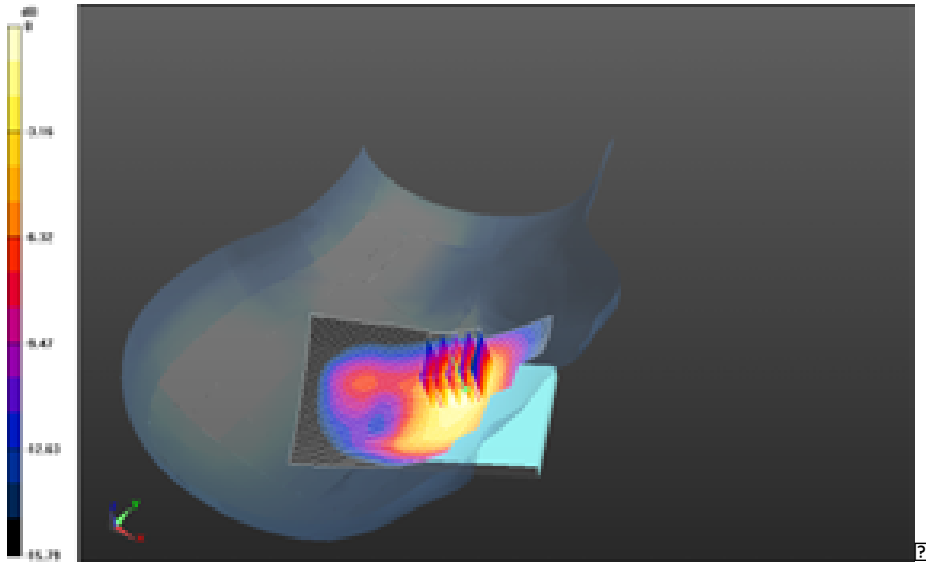
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.576 V/m; **Power Drift = 0.045 dB**


Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.656 W/kg

Maximum value of SAR (interpolated) = 1.45 W/kg

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0 dB = 1.20 W/kg = 0.79 dBW/kg

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Right-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.35 W/kg

Right-Hand-Side HSL - UMTS Band II/Touch Position -

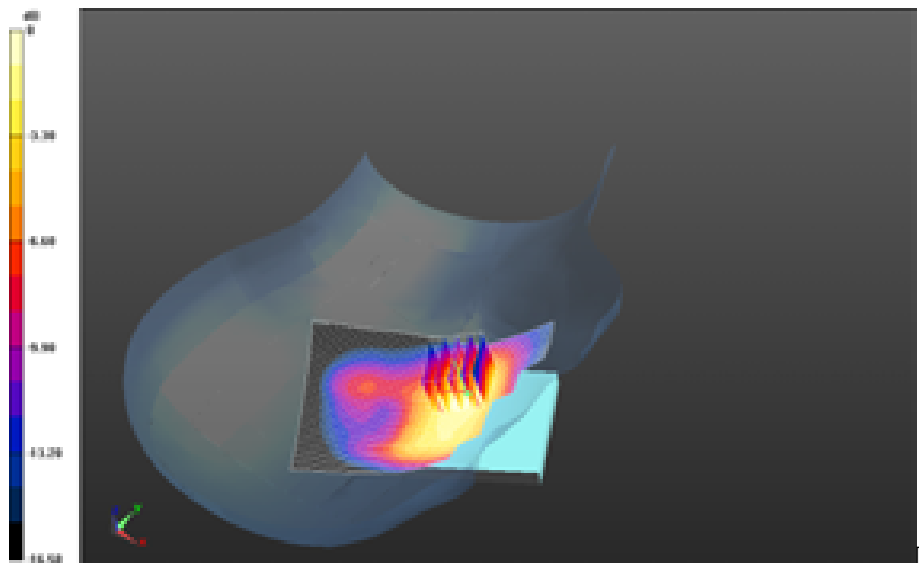
UMTS_band_II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 9.115 V/m; **Power Drift = 0.089 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.640 W/kg

Maximum value of SAR (interpolated) = 1.47 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

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Right-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9538_amb_temp_23.9C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.36 W/kg

Right-Hand-Side HSL - UMTS Band II/Touch Position -

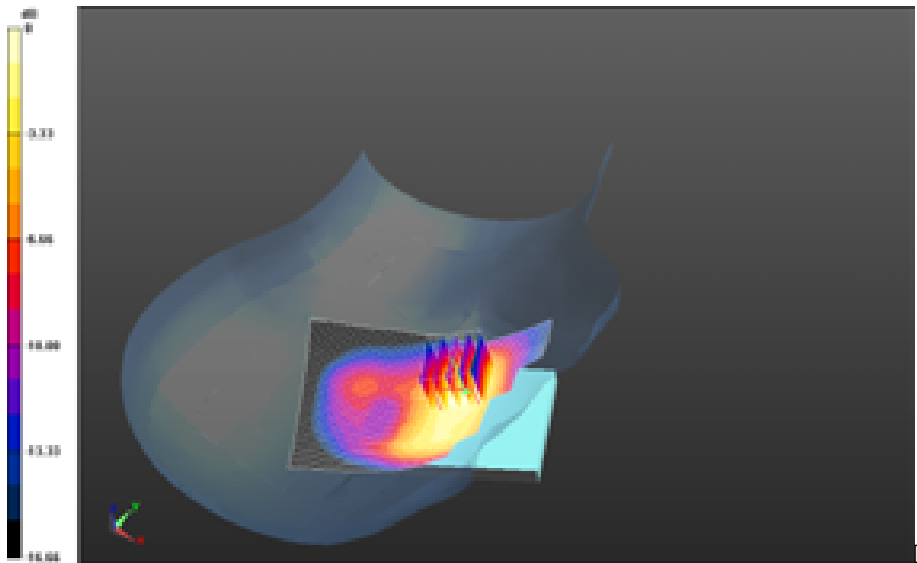
UMTS_band_II_chan9538_amb_temp_23.9C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 10.452 V/m; **Power Drift = 0.091 dB**

Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.640 W/kg

Maximum value of SAR (interpolated) = 1.52 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

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	Author Data Andrew Becker	Dates of Test Mar 04 – May 30, 2013	Test Report No RTS-6036-1305-06B	FCC ID: L6ARFR100LW

Date: 4/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Right-Hand-Side Tilt HSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.360$ S/m; $\epsilon_r = 38.351$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side Tilt HSL - UMTS Band II/Tilt Position -

UMTS_band_II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Area Scan (61x91x1):

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

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

Right-Hand-Side Tilt HSL - UMTS Band II/Tilt Position -


UMTS_band_II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:

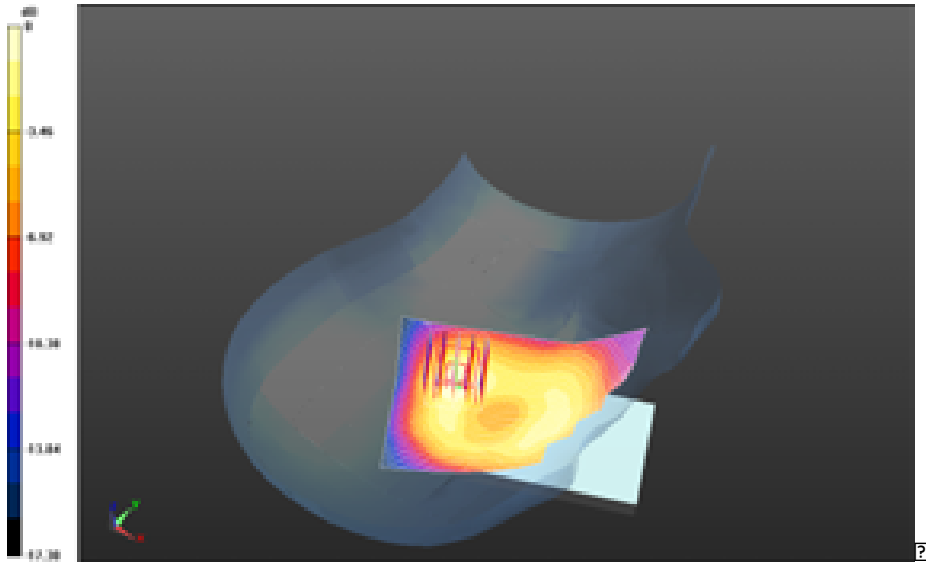
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.767 V/m; **Power Drift = -0.108 dB**


Averaged SAR: SAR(1g) = 0.255 W/kg; SAR(10g) = 0.148 W/kg

Maximum value of SAR (interpolated) = 0.390 W/kg

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0 dB = 0.294 W/kg = -5.32 dBW/kg

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Date: 3/11/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Left-Hand-Side HSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.345$ S/m; $\epsilon_r = 38.849$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9262_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.43 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position -


UMTS_band_II_chan9262_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:

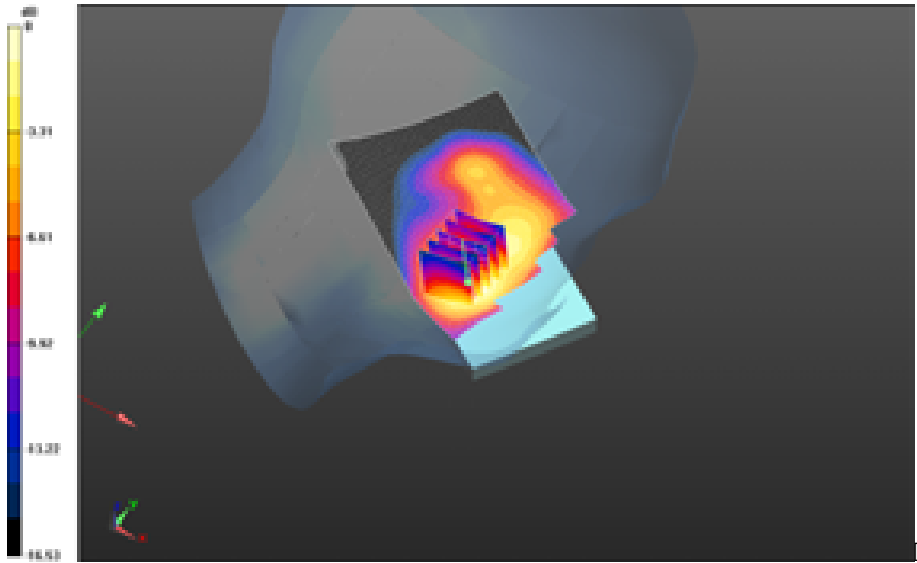
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.984 V/m; **Power Drift = 0.017 dB**


Averaged SAR: SAR(1g) = 1.20 W/kg; SAR(10g) = 0.720 W/kg

Maximum value of SAR (interpolated) = 1.88 W/kg

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0 dB = 1.31 W/kg = 1.17 dBW/kg

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Left-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.42 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position -

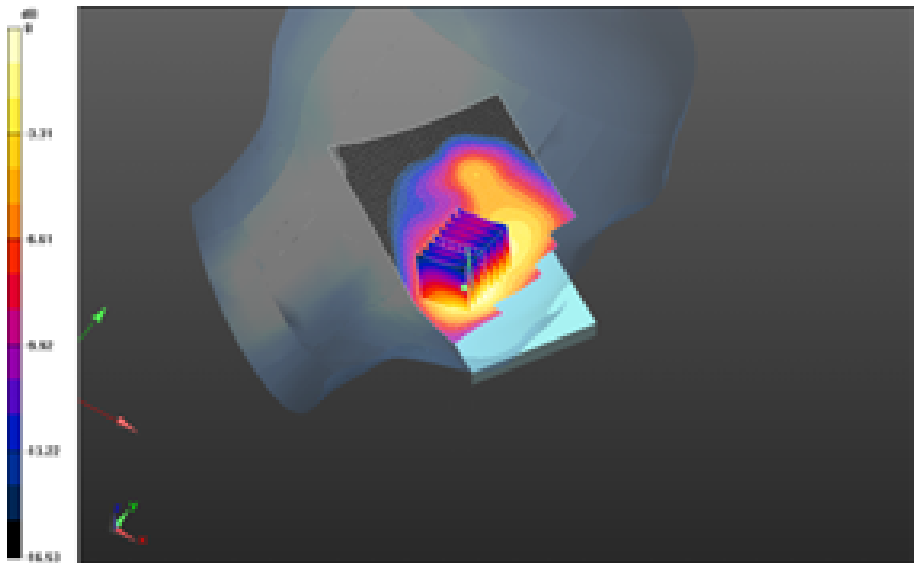
UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Zoom Scan (31x36x36)/Cube 0:

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


Reference Value = 8.604 V/m; **Power Drift = 0.00498 dB**

Averaged SAR: SAR(1g) = 1.18 W/kg; SAR(10g) = 0.706 W/kg

Maximum value of SAR (interpolated) = 1.86 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

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Left-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9538_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.47 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position -

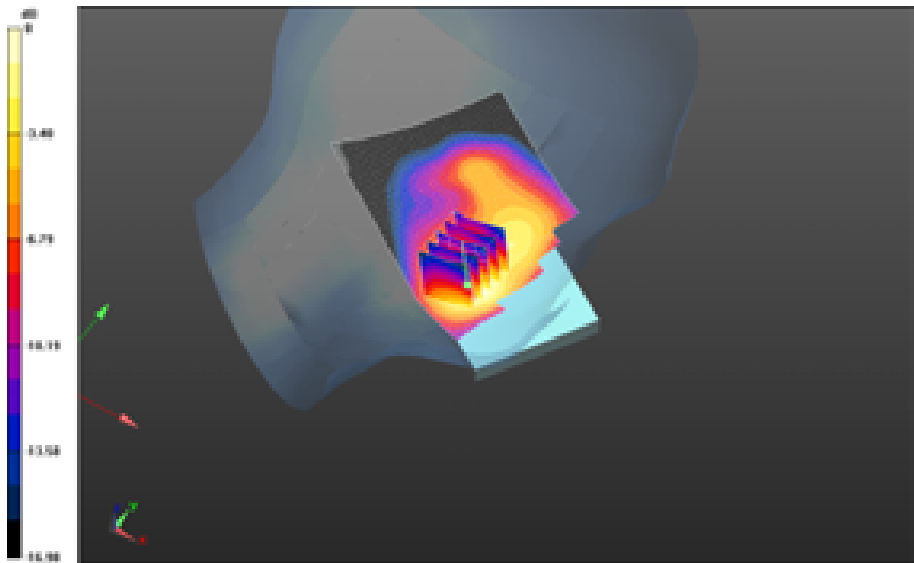
UMTS_band_II_chan9538_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 9.619 V/m; **Power Drift = 0.069 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.721 W/kg

Maximum value of SAR (interpolated) = 1.97 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

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Left-Hand-Side HSL - UMTS Band II/Tilt Position -

UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Area Scan (61x91x1):

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

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

Left-Hand-Side HSL - UMTS Band II/Tilt Position -

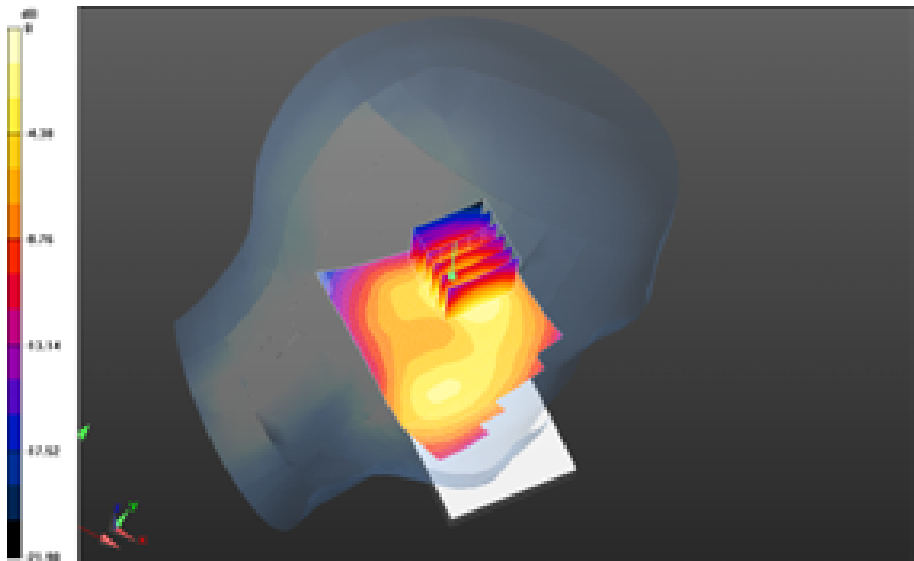
UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 10.723 V/m; **Power Drift = -0.083 dB**

Averaged SAR: SAR(1g) = 0.357 W/kg; SAR(10g) = 0.203 W/kg

Maximum value of SAR (interpolated) = 0.565 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

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Date: 4/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Left-Hand-Side HSL - UMTS Band II 2nd Scan

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1907.6 MHz

Medium Parameters used: $f=1907.6$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 38.256$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band II 2nd Scan/Touch Position -

UMTS_band_II_chan9538_amb_temp_23.3C_liq_temp_21.2C_2nd Scan/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.56 W/kg

Left-Hand-Side HSL - UMTS Band II 2nd Scan/Touch Position -


UMTS_band_II_chan9538_amb_temp_23.3C_liq_temp_21.2C_2nd Scan/Zoom Scan

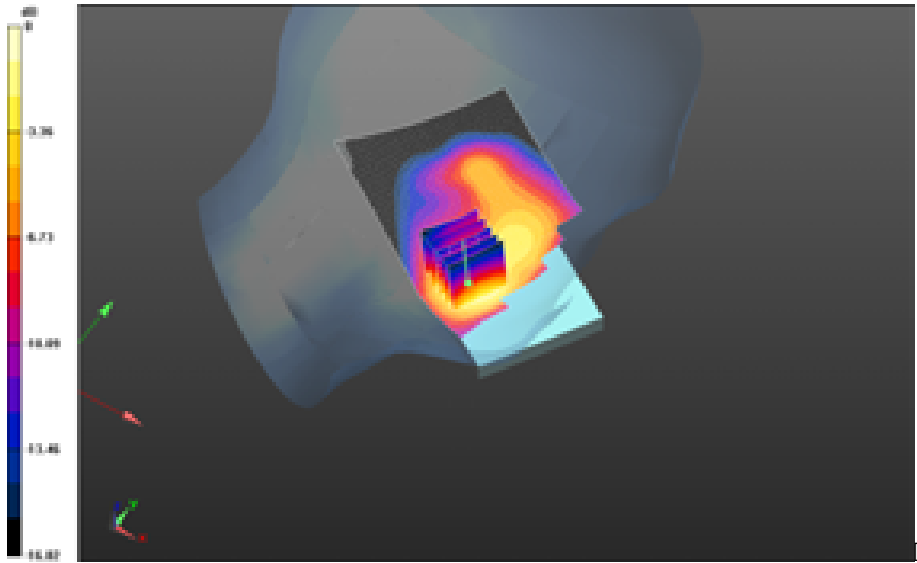
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.114 V/m; **Power Drift = 0.093 dB**


Averaged SAR: SAR(1g) = 1.33 W/kg; SAR(10g) = 0.782 W/kg

Maximum value of SAR (interpolated) = 2.11 W/kg


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0 dB = 1.45 W/kg = 1.61 dBW/kg

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802.11b

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Date: 3/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Right-Hand-Side HSL – 802.11b

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;

Frequency: 2437 MHz

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.824$ S/m; $\epsilon_r = 37.732$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_21.2C/Area Scan (81x121x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.344 W/kg

Right-Hand-Side HSL/Touch Position -


802.11b_mid_chan_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan

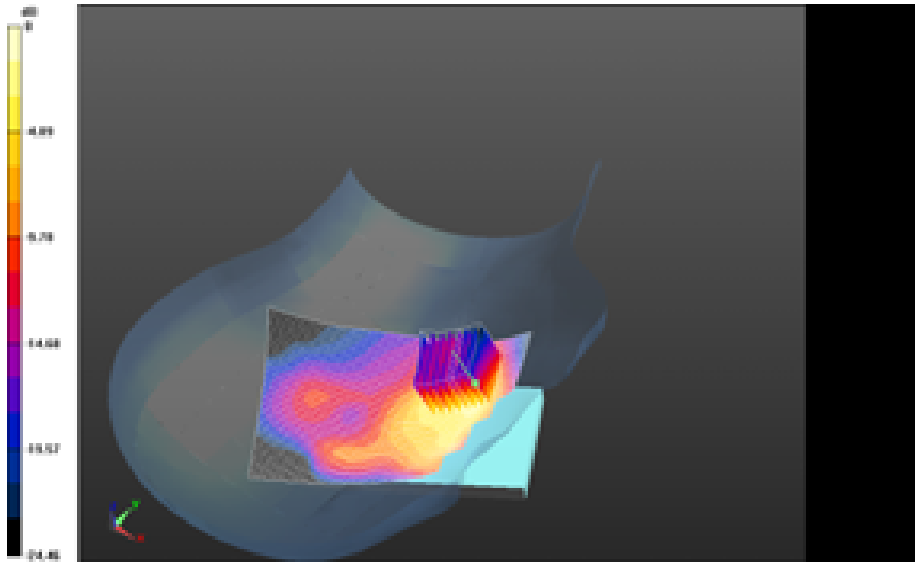
(36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.497 V/m; **Power Drift = 0.155 dB**


Averaged SAR: SAR(1g) = 0.316 W/kg; SAR(10g) = 0.153 W/kg

Maximum value of SAR (interpolated) = 0.682 W/kg

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0 dB = 0.349 W/kg = -4.57 dBW/kg

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Right-Hand-Side HSL/Tilt Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Area Scan (81x111x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0734 W/kg

Right-Hand-Side HSL/Tilt Position -

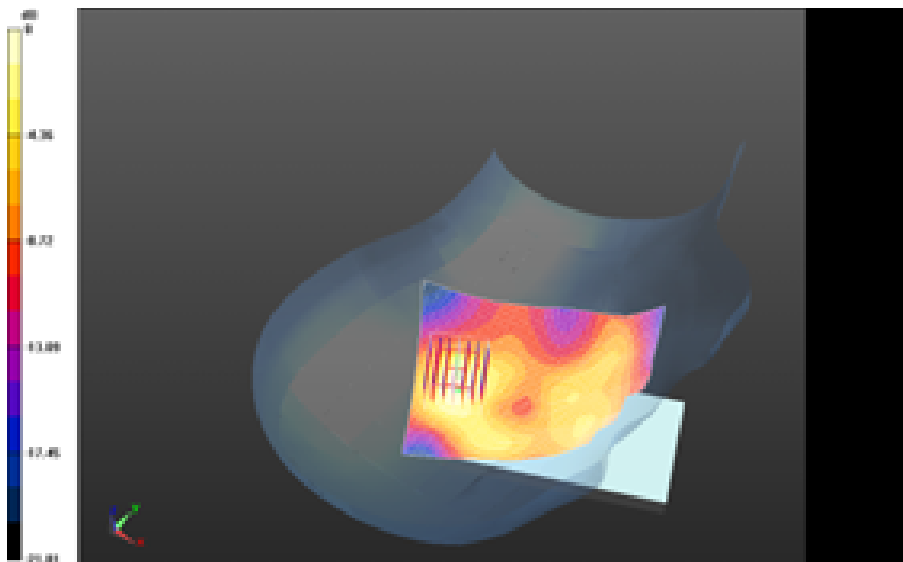
802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Zoom Scan

(31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm


Reference Value = 6.356 V/m; **Power Drift = 0.00846 dB**

Averaged SAR: SAR(1g) = 0.0644 W/kg; SAR(10g) = 0.0340 W/kg

Maximum value of SAR (interpolated) = 0.110 W/kg



0 dB = 0.349 W/kg = -4.57 dBW/kg

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Date: 3/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Left-Hand-Side HSL – 802.11b

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;

Frequency: 2437 MHz

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.824$ S/m; $\epsilon_r = 37.732$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Area Scan (81x111x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

Left-Hand-Side HSL/Touch Position -


802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Zoom Scan

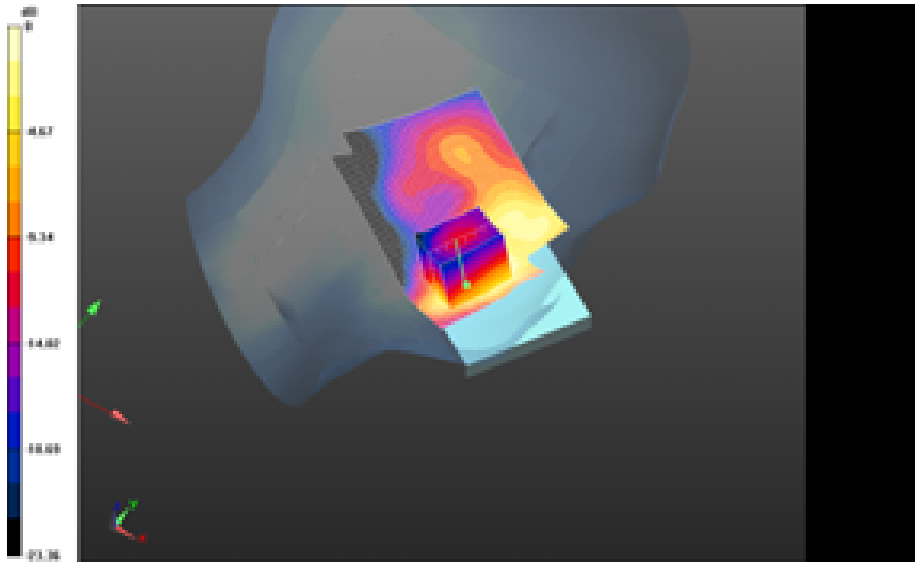
(36x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 11.902 V/m; **Power Drift = -0.074 dB**


Averaged SAR: SAR(1g) = 0.213 W/kg; SAR(10g) = 0.120 W/kg

Maximum value of SAR (interpolated) = 0.364 W/kg

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0 dB = 0.233 W/kg = -6.33 dBW/kg

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Left-Hand-Side HSL/Tilt Position -

802.11b_mid_chan_amb_temp_23.1C_liq_temp_21.0C/Area Scan (81x121x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

Left-Hand-Side HSL/Tilt Position -

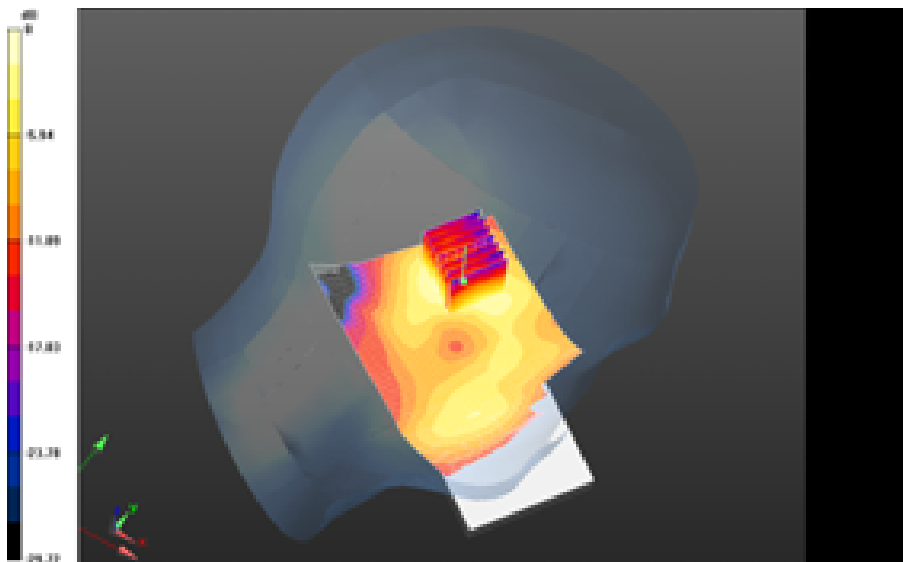
802.11b_mid_chan_amb_temp_23.1C_liq_temp_21.0C/Zoom Scan

(31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm


Reference Value = 6.968 V/m; **Power Drift = 0.122 dB**

Averaged SAR: SAR(1g) = 0.0904 W/kg; SAR(10g) = 0.0460 W/kg


Maximum value of SAR (interpolated) = 0.162 W/kg



0 dB = 0.233 W/kg = -6.33 dBW/kg

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Bluetooth

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Date: 3/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A54

Configuration: Right-Hand-Side HSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used: f=2441 MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 37.721$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0444 W/kg

Right-Hand-Side HSL - Bluetooth/Touch Position -


Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Zoom Scan (36x36x36)/Cube 0:

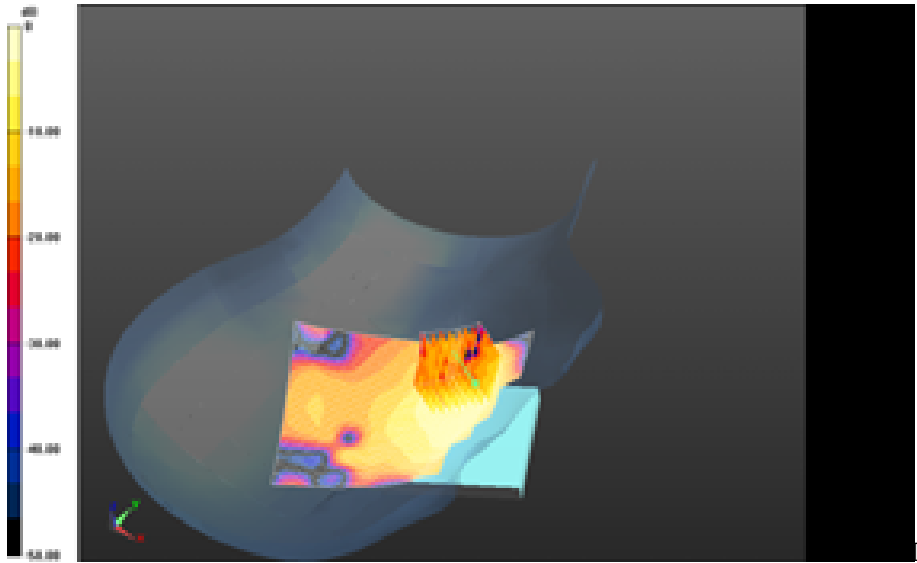
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 4.560 V/m; **Power Drift = 0.015 dB**


Averaged SAR: SAR(1g) = 0.0344 W/kg; SAR(10g) = 0.0163 W/kg

Maximum value of SAR (interpolated) = 0.0719 W/kg

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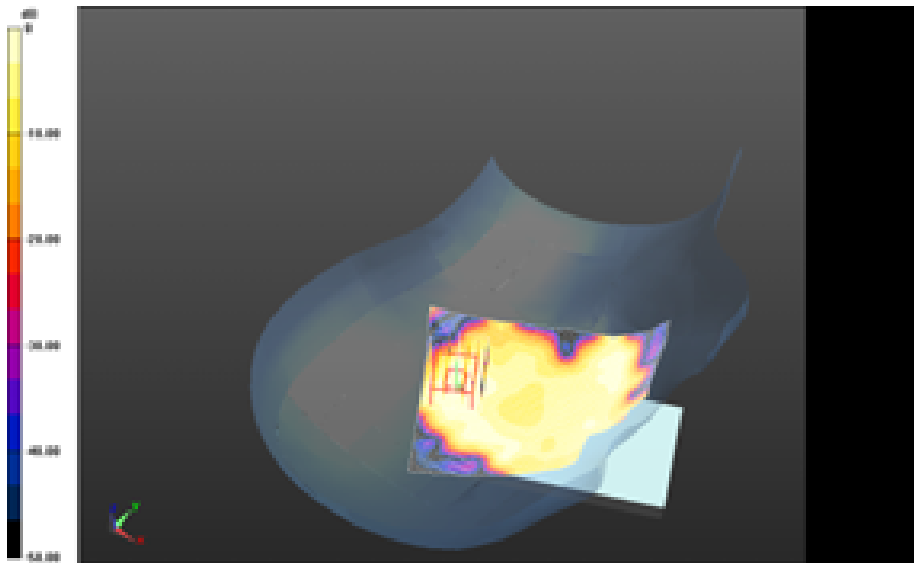
0 dB = 0.0446 W/kg = -13.51 dBW/kg

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Right-Hand-Side HSL - Bluetooth/Tilt Position - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00623 W/kg

Right-Hand-Side HSL - Bluetooth/Tilt Position - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.560 V/m; **Power Drift = -0.080 dB**

Averaged SAR: SAR(1g) = 0.00514 W/kg; SAR(10g) = 0.00256 W/kg
Maximum value of SAR (interpolated) = 0.0102 W/kg



0 dB = 0.0446 W/kg = -13.51 dBW/kg

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Date: 3/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A54

Configuration: Left-Hand-Side HSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used: $f=2441$ MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 37.721$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0209 W/kg

Left-Hand-Side HSL - Bluetooth/Touch Position -


Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.0C/Zoom Scan (36x36x36)/Cube 0:

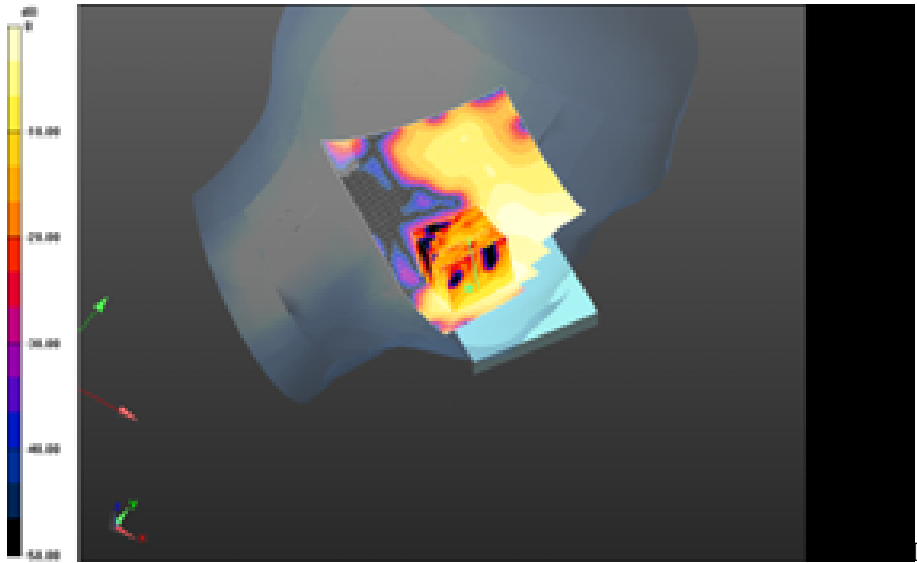
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 3.380 V/m; **Power Drift = 0.191 dB**


Averaged SAR: SAR(1g) = 0.0155 W/kg; SAR(10g) = 0.00822 W/kg

Maximum value of SAR (interpolated) = 0.0343 W/kg

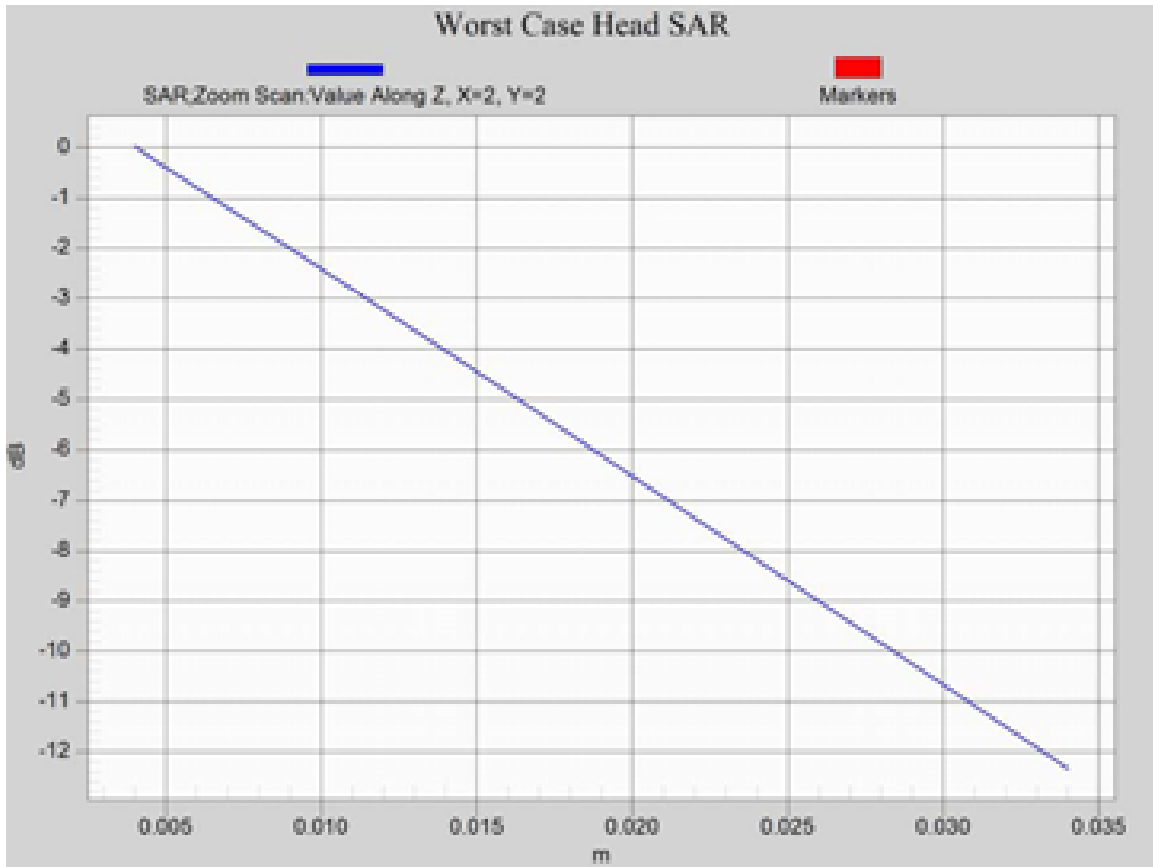
	Document Appendix B for the BlackBerry® Smartphone Model RFR101LW SAR Report			Page 65(135)
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0 dB = 0.0198 W/kg = -17.03 dBW/kg


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Z axis plot for the worst case head configuration




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Model: RFR101LW

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LTE band 17

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Date: 5/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2FFFB6AF

Configuration: Right-Hand-Side HSL - LTE 17

Communication System: LTE 17; Communication System Band: LTE 17; Frequency: 709 MHz

Medium Parameters used: $f=709$ MHz; $\sigma = 0.859$ S/m; $\epsilon_r = 41.318$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.56,6.56,6.56); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - LTE 17/Touch Position -

LTE_17_chan23780_RB1_Off0_amb_temp_24.0C_liq_temp_21.9C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.151 W/kg

Right-Hand-Side HSL - LTE 17/Touch Position -


LTE_17_chan23780_RB1_Off0_amb_temp_24.0C_liq_temp_21.9C/Zoom Scan

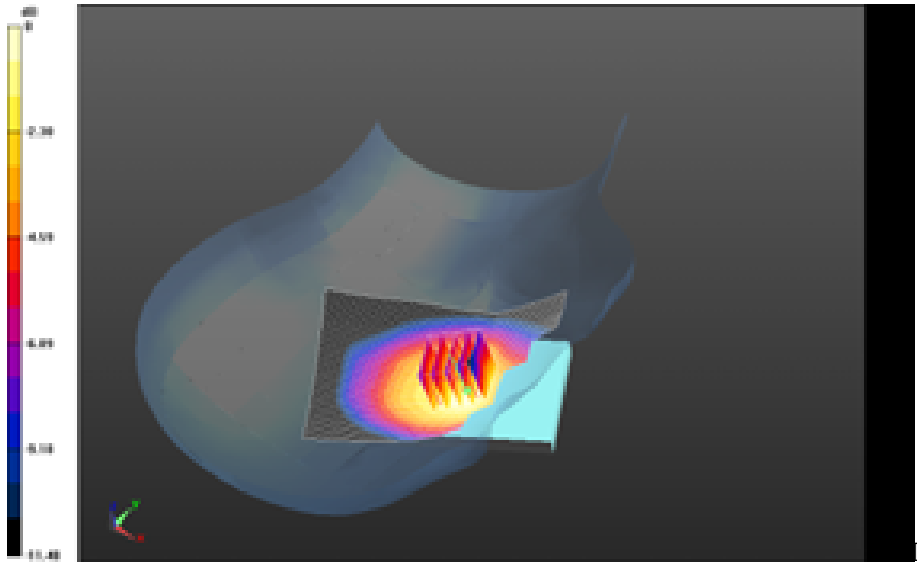
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.990 V/m; **Power Drift = 0.093 dB**


Averaged SAR: SAR(1g) = 0.135 W/kg; SAR(10g) = 0.100 W/kg

Maximum value of SAR (interpolated) = 0.172 W/kg

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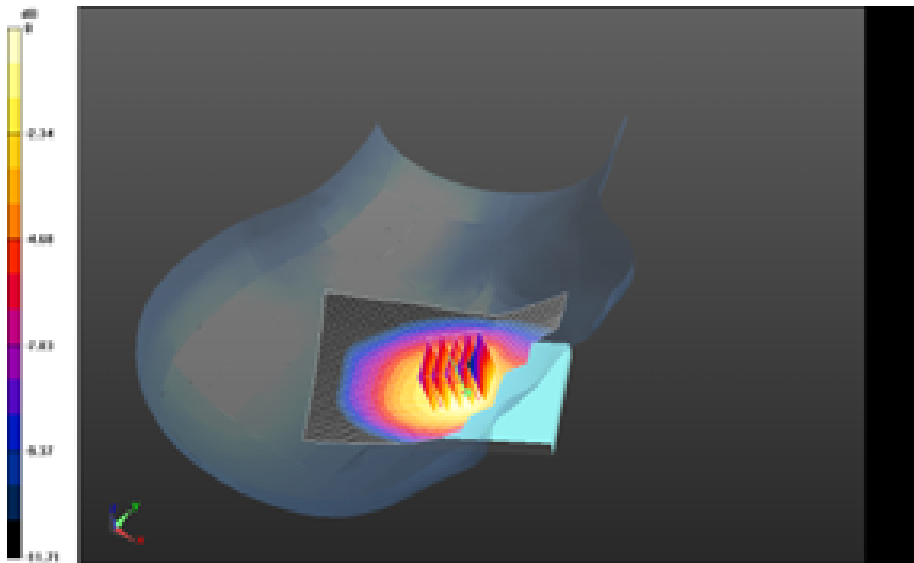
0 dB = 0.148 W/kg = -8.30 dBW/kg

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**Right-Hand-Side HSL - LTE 17/Touch Position -
LTE_17_chan23790_RB25_Off0_amb_temp_24.0C_liq_temp_21.9C/Area Scan (61x91x1):**
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.117 W/kg

**Right-Hand-Side HSL - LTE 17/Touch Position -
LTE_17_chan23790_RB25_Off0_amb_temp_24.0C_liq_temp_21.9C/Zoom Scan
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.371 V/m; **Power Drift = 0.0069 dB**

Averaged SAR: SAR(1g) = 0.103 W/kg; SAR(10g) = 0.0759 W/kg
Maximum value of SAR (interpolated) = 0.132 W/kg



0 dB = 0.148 W/kg = -8.30 dBW/kg

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Right-Hand-Side HSL - LTE 17/Tilt Position -

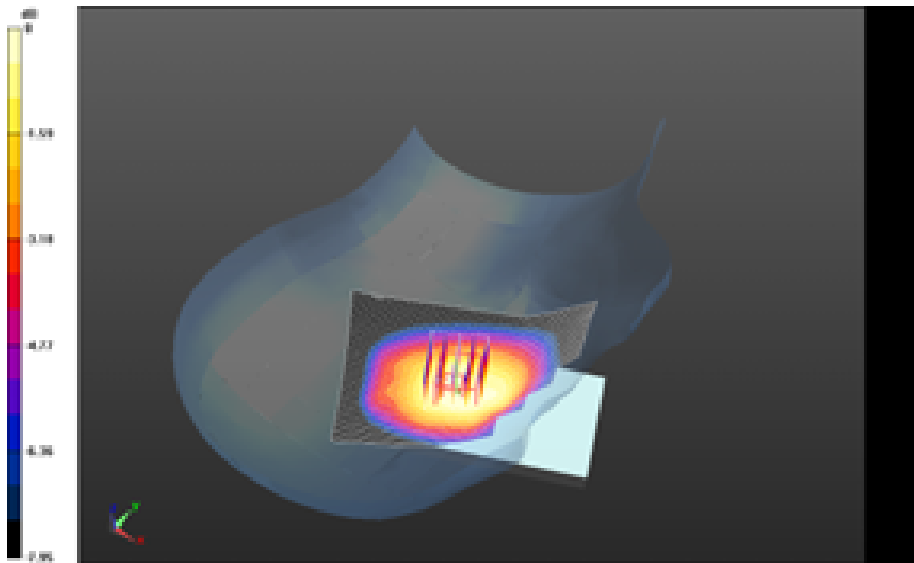
LTE_17_chan23780_RB1_Off0_amb_temp_24.0C_liq_temp_21.9C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0799 W/kg

Right-Hand-Side HSL - LTE 17/Tilt Position -


LTE_17_chan23780_RB1_Off0_amb_temp_24.0C_liq_temp_21.9C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.858 V/m; **Power Drift = 0.067 dB**

Averaged SAR: SAR(1g) = 0.0716 W/kg; SAR(10g) = 0.0550 W/kg

Maximum value of SAR (interpolated) = 0.0892 W/kg



0 dB = 0.112 W/kg = -9.51 dBW/kg

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Date: 5/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2FFFB6AF

Configuration: Left-Hand-Side HSL - LTE 17

Communication System: LTE 17; Communication System Band: LTE 17; Frequency: 709 MHz

Medium Parameters used: $f=709$ MHz; $\sigma = 0.859$ S/m; $\epsilon_r = 41.318$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.56,6.56,6.56); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - LTE 17/Touch Position -

LTE_17_chan23780_RB1_Off0_amb_temp_24.0C_liq_temp_21.9C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.194 W/kg

Left-Hand-Side HSL - LTE 17/Touch Position -


LTE_17_chan23780_RB1_Off0_amb_temp_24.0C_liq_temp_21.9C/Zoom Scan

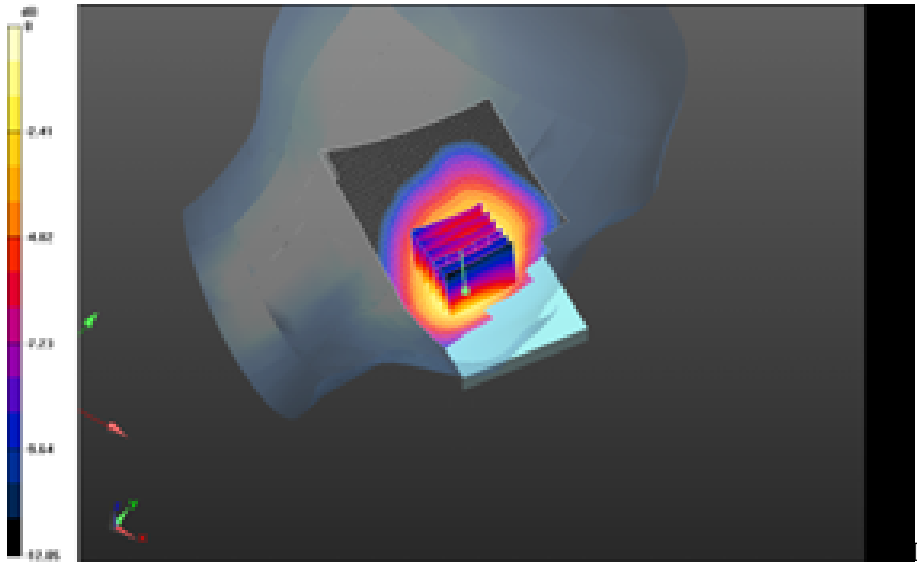
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 15.335 V/m; **Power Drift = -0.028 dB**


Averaged SAR: SAR(1g) = 0.169 W/kg; SAR(10g) = 0.119 W/kg

Maximum value of SAR (interpolated) = 0.244 W/kg

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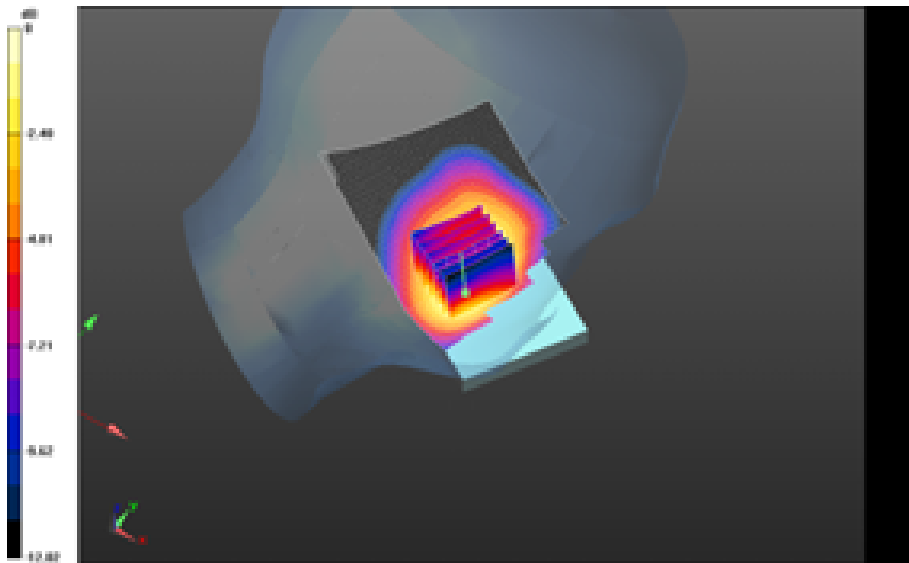
0 dB = 0.192 W/kg = -7.17 dBW/kg

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**Left-Hand-Side HSL - LTE 17/Touch Position -
LTE_17_chan23790_RB25_Off0_amb_temp_24.0C_liq_temp_21.9C/Area Scan (61x91x1):**
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.146 W/kg

**Left-Hand-Side HSL - LTE 17/Touch Position -
LTE_17_chan23790_RB25_Off0_amb_temp_24.0C_liq_temp_21.9C/Zoom Scan
(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.239 V/m; **Power Drift = 0.067 dB**

Averaged SAR: SAR(1g) = 0.125 W/kg; SAR(10g) = 0.0877 W/kg
Maximum value of SAR (interpolated) = 0.181 W/kg



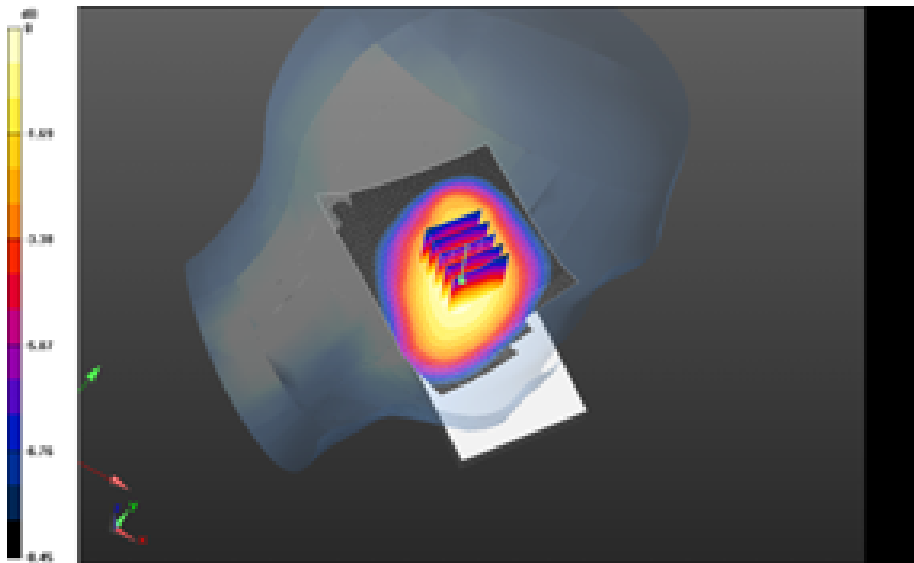
0 dB = 0.192 W/kg = -7.17 dBW/kg

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**Left-Hand-Side HSL - LTE 17/Tilt Position -
LTE_17_chan23780_RB1_Off0_amb_temp_24.0C_liq_temp_21.9C/Area Scan (61x91x1):**
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.105 W/kg

**Left-Hand-Side HSL - LTE 17/Tilt Position -
LTE_17_chan23780_RB1_Off0_amb_temp_24.0C_liq_temp_21.9C/Zoom Scan
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.410 V/m; **Power Drift = 0.039 dB**


Averaged SAR: SAR(1g) = 0.0960 W/kg; SAR(10g) = 0.0727 W/kg
Maximum value of SAR (interpolated) = 0.120 W/kg



0 dB = 0.142 W/kg = -8.48 dBW/kg

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LTE band 5

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Date: 5/6/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB035B7

Configuration: Right-Hand-Side HSL - LTE 5

Communication System: LTE 5; Communication System Band: LTE 5; Frequency: 829 MHz

Medium Parameters used: $f=829$ MHz; $\sigma = 0.890$ S/m; $\epsilon_r = 41.404$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - LTE 5/Touch Position -

LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.345 W/kg

Right-Hand-Side HSL - LTE 5/Touch Position -


LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan

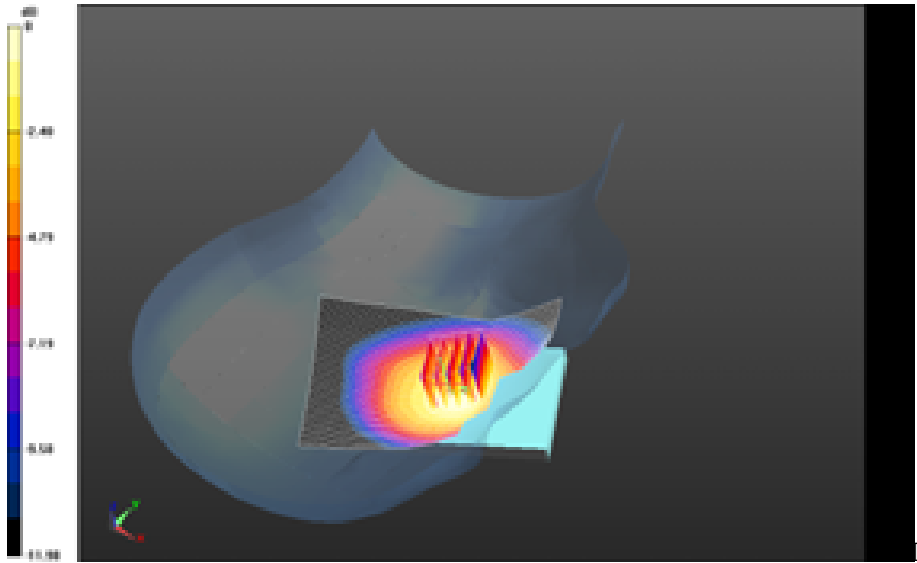
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.573 V/m; **Power Drift = -0.139 dB**


Averaged SAR: SAR(1g) = 0.301 W/kg; SAR(10g) = 0.228 W/kg

Maximum value of SAR (interpolated) = 0.370 W/kg

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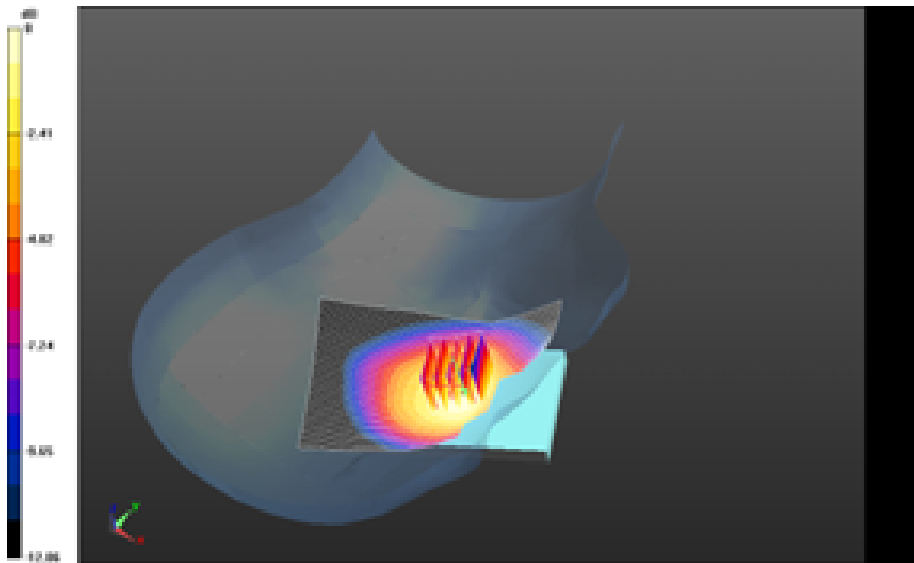
0 dB = 0.325 W/kg = -4.88 dBW/kg

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**Right-Hand-Side HSL - LTE 5/Touch Position -
LTE_5_chan20525_RB25_Off0_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):**
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.252 W/kg

**Right-Hand-Side HSL - LTE 5/Touch Position -
LTE_5_chan20525_RB25_Off0_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 16.793 V/m; **Power Drift = -0.00649 dB**

Averaged SAR: SAR(1g) = 0.220 W/kg; SAR(10g) = 0.165 W/kg
Maximum value of SAR (interpolated) = 0.273 W/kg



0 dB = 0.325 W/kg = -4.88 dBW/kg

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Right-Hand-Side HSL - LTE 5/Tilt Position -

LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.185 W/kg

Right-Hand-Side HSL - LTE 5/Tilt Position -

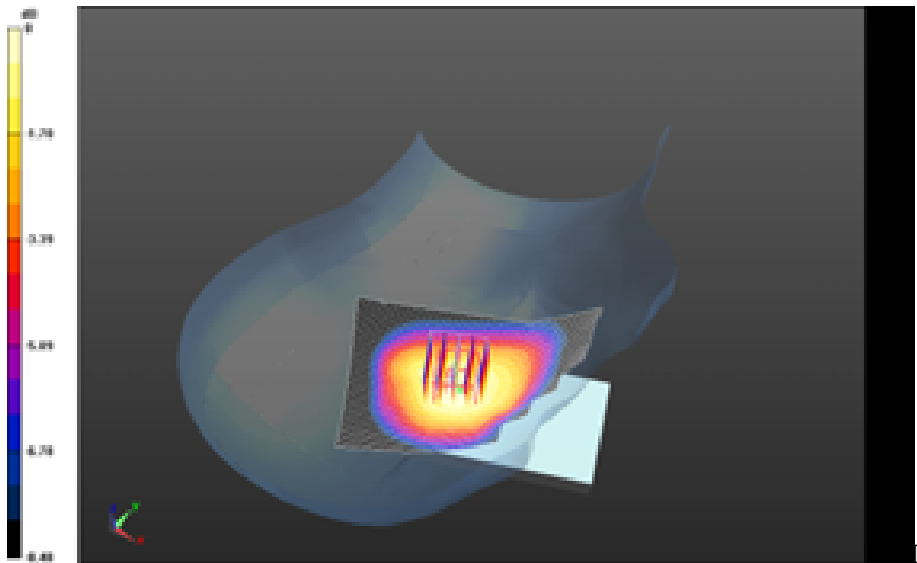
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan

(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 14.599 V/m; **Power Drift = 0.056 dB**

Averaged SAR: SAR(1g) = 0.171 W/kg; SAR(10g) = 0.127 W/kg

Maximum value of SAR (interpolated) = 0.214 W/kg



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

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Date: 5/6/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB035B7

Configuration: Left-Hand-Side HSL - LTE 5

Communication System: LTE 5; Communication System Band: LTE 5; Frequency: 829 MHz

Medium Parameters used: $f=829$ MHz; $\sigma = 0.890$ S/m; $\epsilon_r = 41.404$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - LTE 5/Touch Position -

LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.360 W/kg

Left-Hand-Side HSL - LTE 5/Touch Position -


LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan

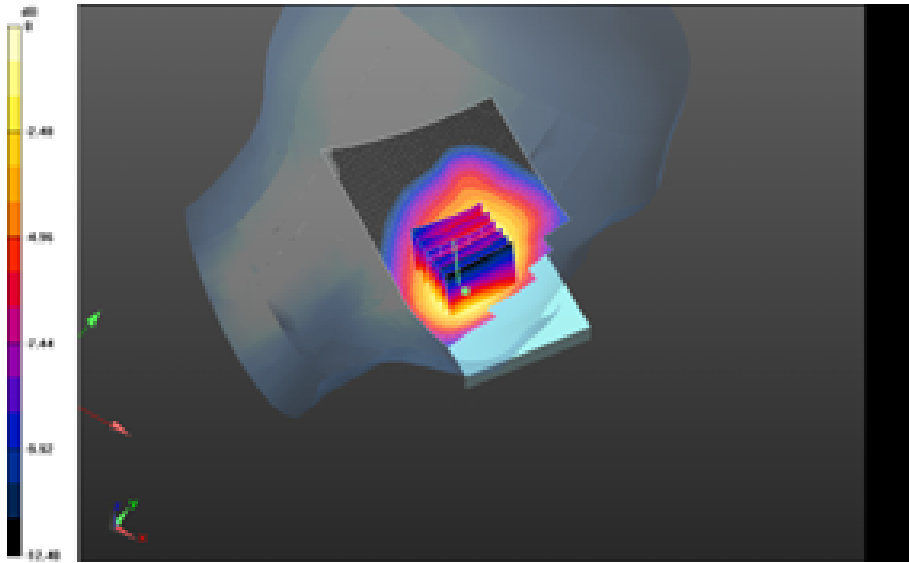
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 20.207 V/m; **Power Drift = 0.055 dB**


Averaged SAR: SAR(1g) = 0.308 W/kg; SAR(10g) = 0.210 W/kg

Maximum value of SAR (interpolated) = 0.451 W/kg

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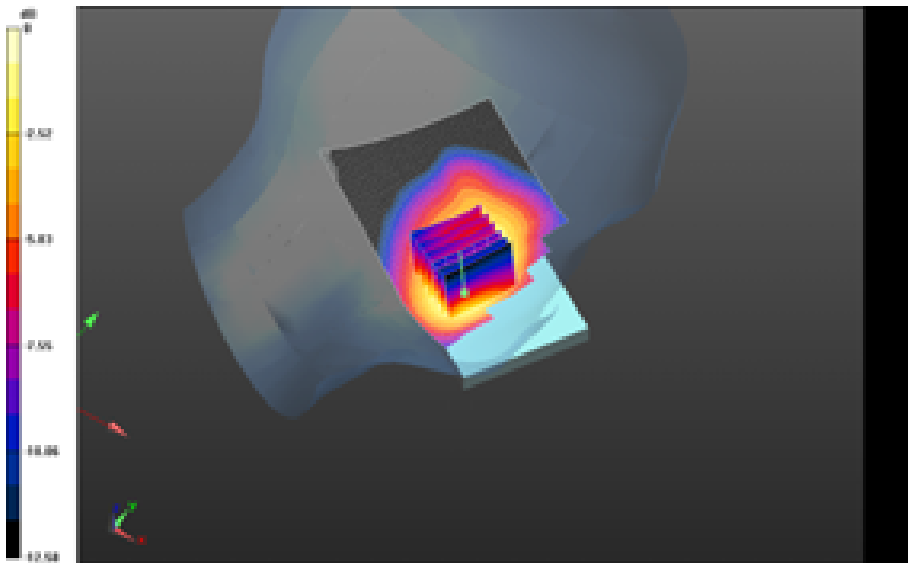
0 dB = 0.353 W/kg = -4.52 dBW/kg

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Left-Hand-Side HSL - LTE 5/Touch Position -
LTE_5_chan20525_RB25_Off0_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.273 W/kg

Left-Hand-Side HSL - LTE 5/Touch Position -
LTE_5_chan20525_RB25_Off0_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 17.418 V/m; **Power Drift = 0.122 dB**

Averaged SAR: SAR(1g) = 0.223 W/kg; SAR(10g) = 0.153 W/kg
Maximum value of SAR (interpolated) = 0.329 W/kg



0 dB = 0.353 W/kg = -4.52 dBW/kg

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Left-Hand-Side HSL - LTE 5/Tilt Position -

LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.202 W/kg

Left-Hand-Side HSL - LTE 5/Tilt Position -

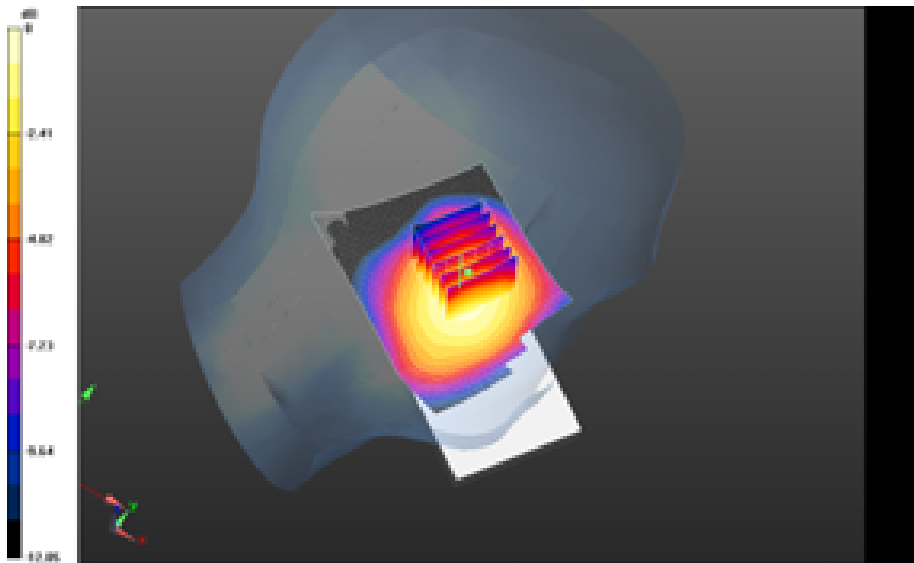
LTE_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_21.2C/Zoom Scan

(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 15.041 V/m; **Power Drift = 0.072 dB**

Averaged SAR: SAR(1g) = 0.180 W/kg; SAR(10g) = 0.132 W/kg


Maximum value of SAR (interpolated) = 0.236 W/kg



0 dB = 0.255 W/kg = -5.93 dBW/kg

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LTE Band 4

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Date: 5/27/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Right-Hand-Side HSL - LTE Band 4

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1720 MHz

Medium Parameters used: $f=1720$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 38.756$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_23.4C_liq_temp_20.8C/Area Scan

(61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Right-Hand-Side HSL - LTE Band 4/Touch Position -


LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_23.4C_liq_temp_20.8C/Zoom Scan

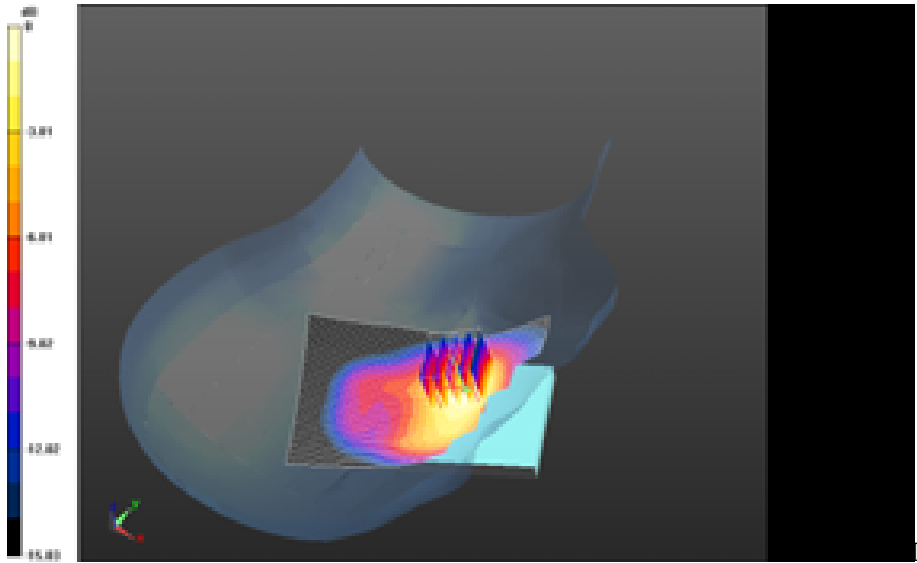
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.686 V/m; **Power Drift = 0.00478 dB**


Averaged SAR: SAR(1g) = 0.707 W/kg; SAR(10g) = 0.440 W/kg

Maximum value of SAR (interpolated) = 0.999 W/kg

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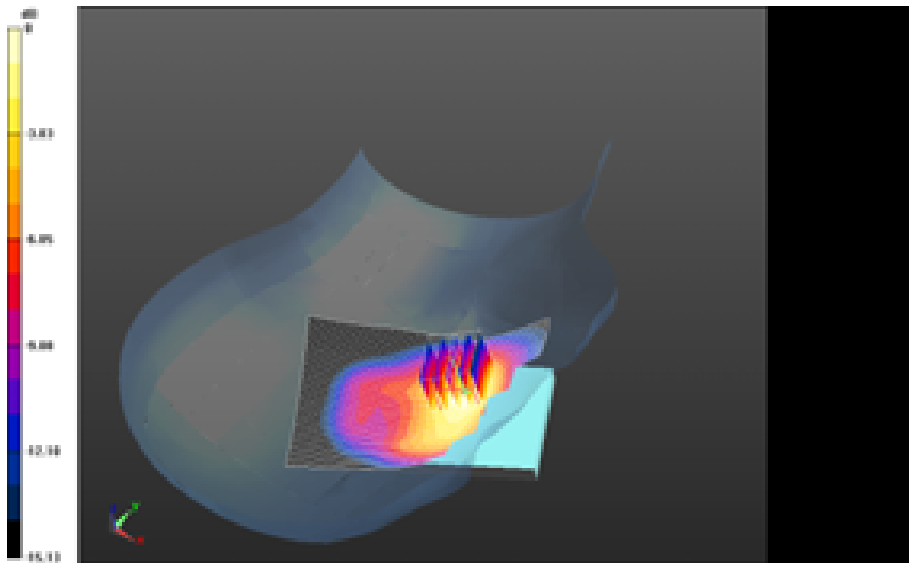
0 dB = 0.822 W/kg = -0.85 dBW/kg

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**Right-Hand-Side HSL - LTE Band 4/Touch Position -
LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_23.4C_liq_temp_20.8C 2/Area Scan
(61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.714 W/kg

**Right-Hand-Side HSL - LTE Band 4/Touch Position -
LTE_Band_4_chan20175_RB50_OFFSET0_amb_temp_23.4C_liq_temp_20.8C 2/Zoom Scan
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.824 V/m; **Power Drift = 0.066 dB**

Averaged SAR: SAR(1g) = 0.569 W/kg; SAR(10g) = 0.353 W/kg
Maximum value of SAR (interpolated) = 0.799 W/kg



0 dB = 0.822 W/kg = -0.85 dBW/kg

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Right-Hand-Side HSL - LTE Band 4/Tilt Position -

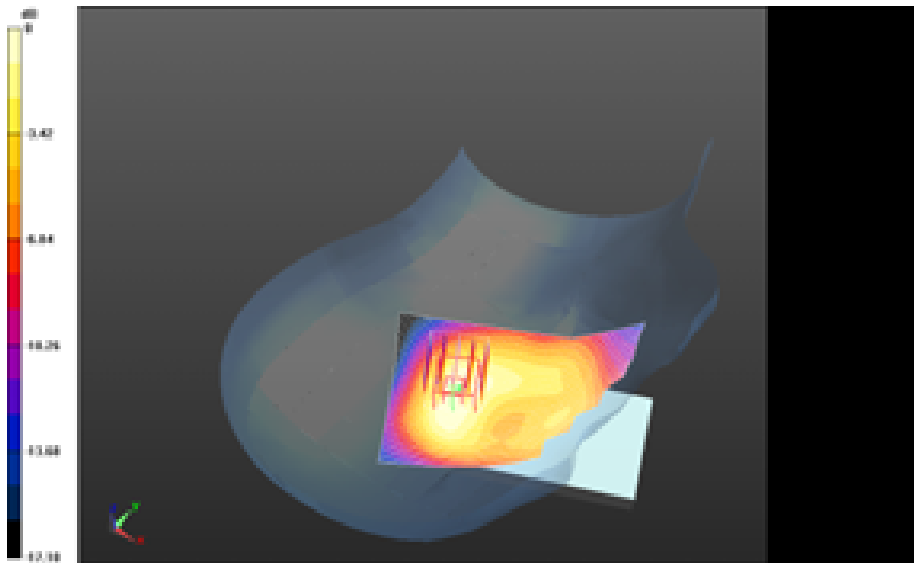
LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_23.4C_liq_temp_20.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.253 W/kg

Right-Hand-Side HSL - LTE Band 4/Tilt Position -


LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_23.4C_liq_temp_20.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.244 V/m; **Power Drift = 0.043 dB**

Averaged SAR: SAR(1g) = 0.191 W/kg; SAR(10g) = 0.123 W/kg

Maximum value of SAR (interpolated) = 0.284 W/kg



0 dB = 0.660 W/kg = -1.80 dBW/kg

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Date: 5/27/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Left-Hand-Side HSL - LTE Band 4

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1720 MHz

Medium Parameters used: $f=1720$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 38.756$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_23.4C_liq_temp_20.8C/Area Scan

(61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

Left-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_23.4C_liq_temp_20.8C/Zoom Scan

(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.344 V/m; **Power Drift = -0.142 dB**

Averaged SAR: SAR(1g) = 0.817 W/kg; SAR(10g) = 0.503 W/kg

Maximum value of SAR (interpolated) = 1.25 W/kg

Left-Hand-Side HSL - LTE Band 4/Touch Position -


LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_23.4C_liq_temp_20.8C/Zoom Scan 2

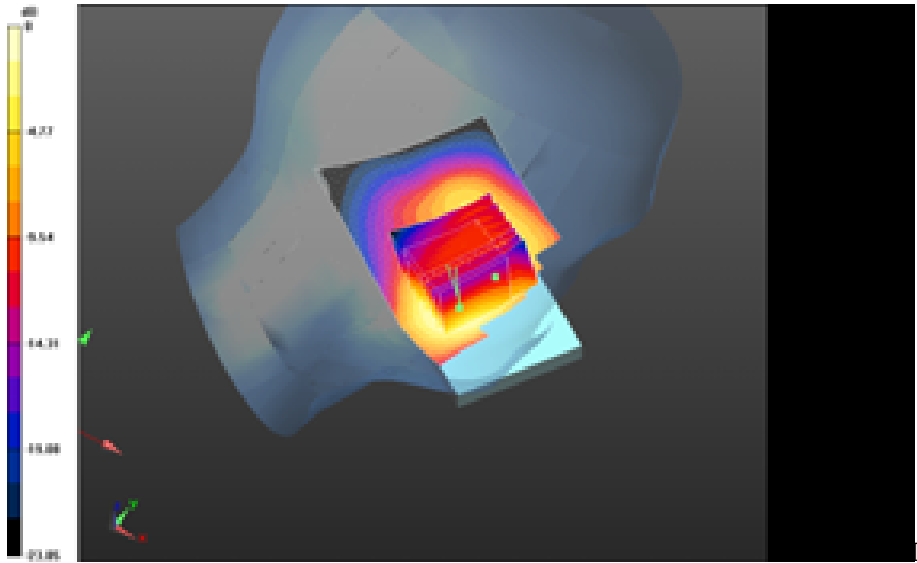
(36x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.344 V/m; **Power Drift = -0.131 dB**


Averaged SAR: SAR(1g) = 0.817 W/kg; SAR(10g) = 0.502 W/kg

Maximum value of SAR (interpolated) = 1.26 W/kg

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0 dB = 0.948 W/kg = -0.23 dBW/kg

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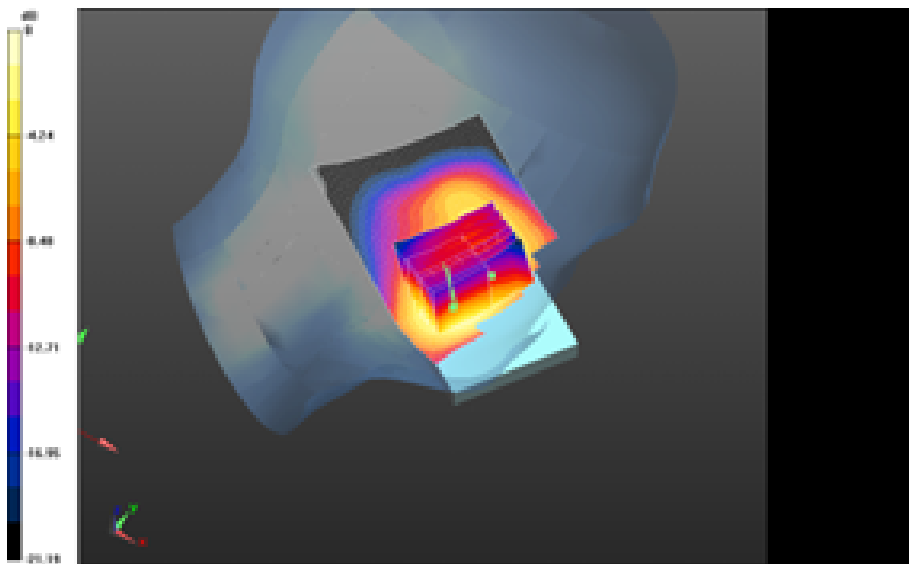
**Left-Hand-Side HSL - LTE Band 4/Touch Position -
LTE_Band_4_chan20175_RB1_OFFSET0_amb_temp_21.0C_liq_temp_20.8C/Area Scan
(61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.985 W/kg

**Left-Hand-Side HSL - LTE Band 4/Touch Position -
LTE_Band_4_chan20175_RB1_OFFSET0_amb_temp_21.0C_liq_temp_20.8C/Zoom Scan
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.336 V/m; **Power Drift = 0.086 dB**


Averaged SAR: SAR(1g) = 0.808 W/kg; SAR(10g) = 0.497 W/kg
Maximum value of SAR (interpolated) = 1.23 W/kg

**Left-Hand-Side HSL - LTE Band 4/Touch Position -
LTE_Band_4_chan20175_RB1_OFFSET0_amb_temp_21.0C_liq_temp_20.8C/Zoom Scan 2
(36x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.336 V/m; **Power Drift = 0.055 dB**

Averaged SAR: SAR(1g) = 0.808 W/kg; SAR(10g) = 0.495 W/kg
Maximum value of SAR (interpolated) = 1.24 W/kg



0 dB = 0.948 W/kg = -0.23 dBW/kg

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Left-Hand-Side HSL - LTE Band 4/Touch Position -

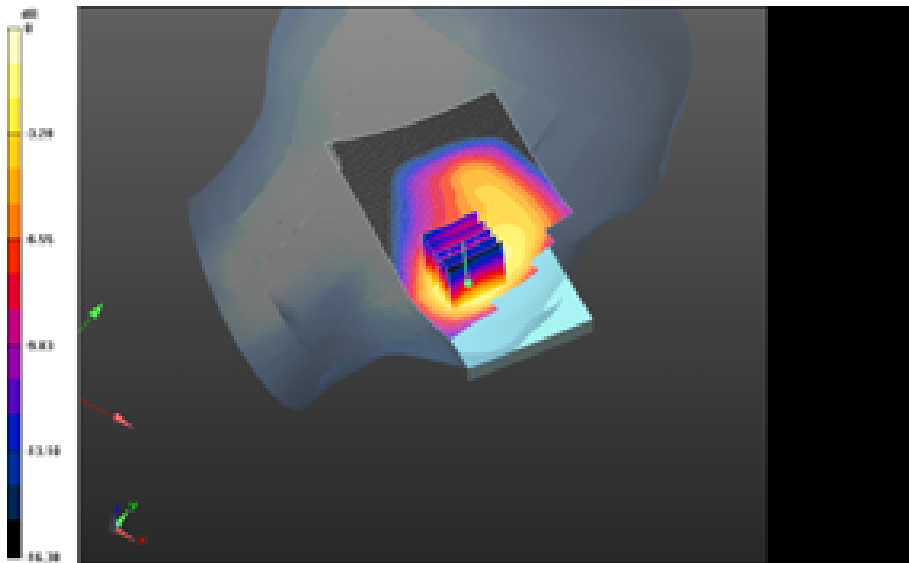
LTE_Band_4_chan20300_RB1_OFFSET99_amb_temp_21.0C_liq_temp_20.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.25 W/kg

Left-Hand-Side HSL - LTE Band 4/Touch Position -


LTE_Band_4_chan20300_RB1_OFFSET99_amb_temp_21.0C_liq_temp_20.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.272 V/m; **Power Drift = 0.051 dB**

Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.627 W/kg

Maximum value of SAR (interpolated) = 1.61 W/kg



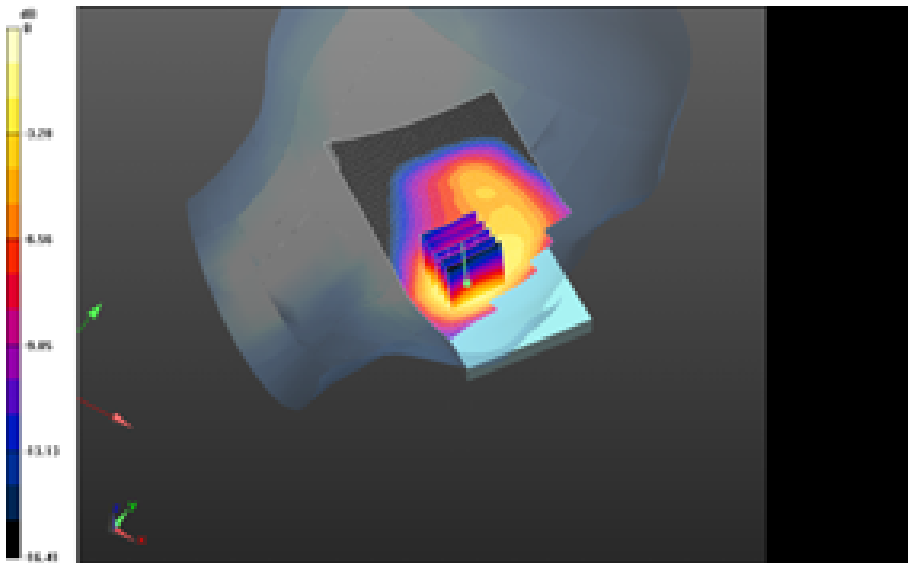
0 dB = 0.934 W/kg = -0.30 dBW/kg

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Left-Hand-Side HSL - LTE Band 4/Touch Position -
LTE_Band_4_chan20300_RB1_OFFSET99_amb_temp_21.0C_liq_temp_20.8C_2nd_Scan/Area
Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.30 W/kg

Left-Hand-Side HSL - LTE Band 4/Touch Position -
LTE_Band_4_chan20300_RB1_OFFSET99_amb_temp_21.0C_liq_temp_20.8C_2nd_Scan/Zoom
Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.329 V/m; **Power Drift = 0.030 dB**

Averaged SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.648 W/kg
Maximum value of SAR (interpolated) = 1.67 W/kg



0 dB = 1.24 W/kg = 0.93 dBW/kg

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Left-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20050_RB50_OFFSET0_amb_temp_23.4C_liq_temp_20.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.759 W/kg

Left-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20050_RB50_OFFSET0_amb_temp_23.4C_liq_temp_20.8C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.424 V/m; **Power Drift = 0.119 dB**

Averaged SAR: SAR(1g) = 0.644 W/kg; SAR(10g) = 0.394 W/kg

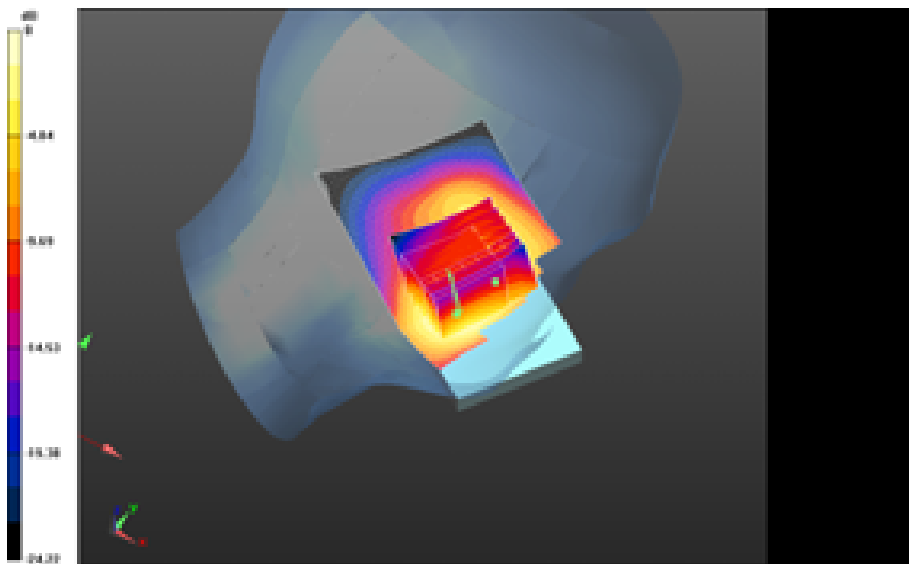
Maximum value of SAR (interpolated) = 0.982 W/kg

Left-Hand-Side HSL - LTE Band 4/Touch Position -


LTE_Band_4_chan20050_RB50_OFFSET0_amb_temp_23.4C_liq_temp_20.8C/Zoom Scan 2 (36x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.424 V/m; **Power Drift = 0.045 dB**

Averaged SAR: SAR(1g) = 0.644 W/kg; SAR(10g) = 0.394 W/kg

Maximum value of SAR (interpolated) = 0.994 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

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Left-Hand-Side HSL - LTE Band 4/Tilt Position -

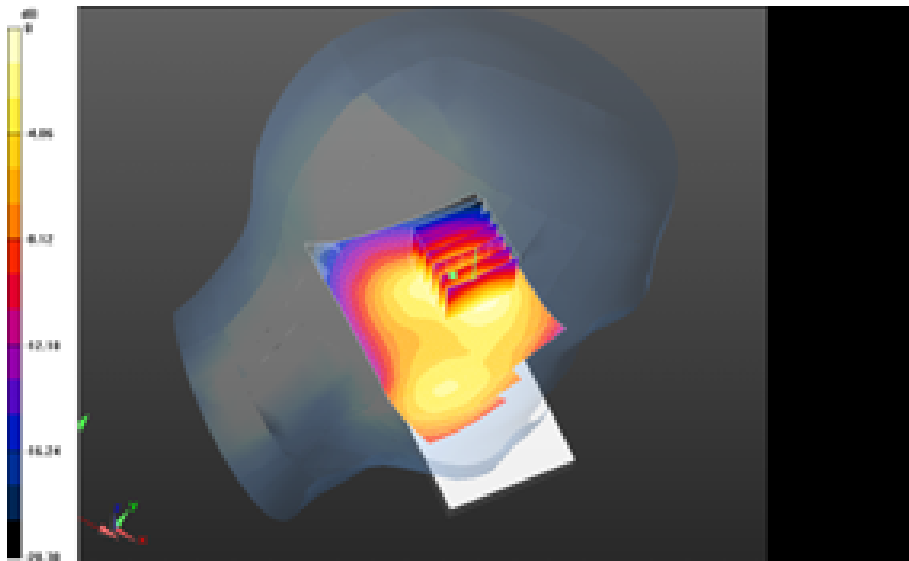
LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_21.4C_liq_temp_20.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.370 W/kg

Left-Hand-Side HSL - LTE Band 4/Tilt Position -


LTE_Band_4_chan20050_RB1_OFFSET99_amb_temp_21.4C_liq_temp_20.8C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.829 V/m; **Power Drift = -0.021 dB**

Averaged SAR: SAR(1g) = 0.296 W/kg; SAR(10g) = 0.183 W/kg


Maximum value of SAR (interpolated) = 0.442 W/kg



0 dB = 0.751 W/kg = -1.24 dBW/kg

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UMTS Band IV

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Date: 5/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Right-Hand-Side HSL - UMTS Band IV

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV;

Frequency: 1712.4 MHz

Medium Parameters used: $f=1712.4$ MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 38.856$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - UMTS Band IV/Touch Position -

UMTS_Band_IV_chan1312_amb_temp_23.8C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.876 W/kg

Right-Hand-Side HSL - UMTS Band IV/Touch Position -


UMTS_Band_IV_chan1312_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

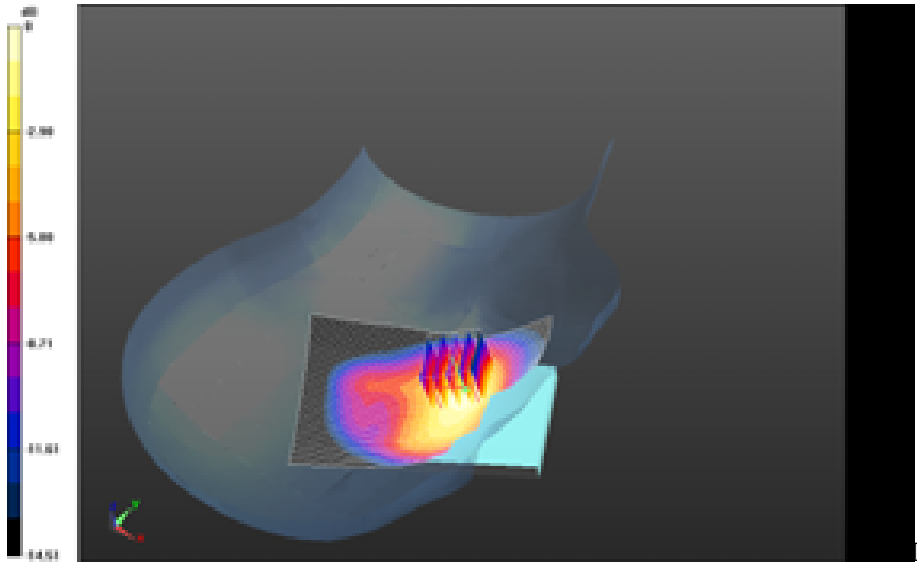
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.973 V/m; **Power Drift = 0.030 dB**


Averaged SAR: SAR(1g) = 0.690 W/kg; SAR(10g) = 0.443 W/kg

Maximum value of SAR (interpolated) = 0.979 W/kg

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0 dB = 0.789 W/kg = -1.03 dBW/kg

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Right-Hand-Side HSL - UMTS Band IV/Touch Position -

UMTS_Band_IV_chan1413_amb_temp_23.8C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.05 W/kg

Right-Hand-Side HSL - UMTS Band IV/Touch Position -

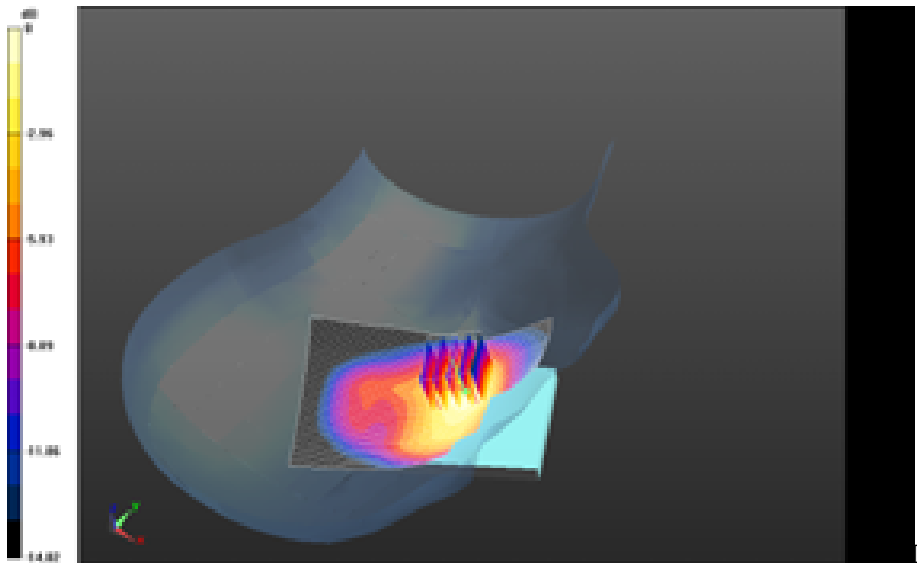
UMTS_Band_IV_chan1413_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 9.873 V/m; **Power Drift = 0.025 dB**

Averaged SAR: SAR(1g) = 0.824 W/kg; SAR(10g) = 0.522 W/kg

Maximum value of SAR (interpolated) = 1.15 W/kg



0 dB = 0.789 W/kg = -1.03 dBW/kg

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Right-Hand-Side HSL - UMTS Band IV/Touch Position -

UMTS_Band_IV_chan1513_amb_temp_23.8C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.12 W/kg

Right-Hand-Side HSL - UMTS Band IV/Touch Position -

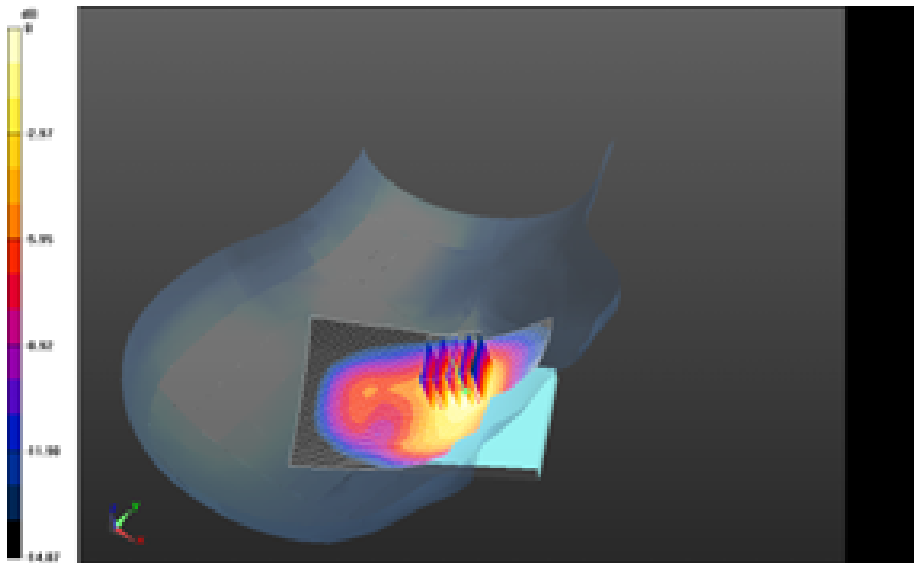
UMTS_Band_IV_chan1513_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 11.491 V/m; **Power Drift = -0.036 dB**

Averaged SAR: SAR(1g) = 0.882 W/kg; SAR(10g) = 0.552 W/kg

Maximum value of SAR (interpolated) = 1.25 W/kg



0 dB = 0.952 W/kg = -0.21 dBW/kg

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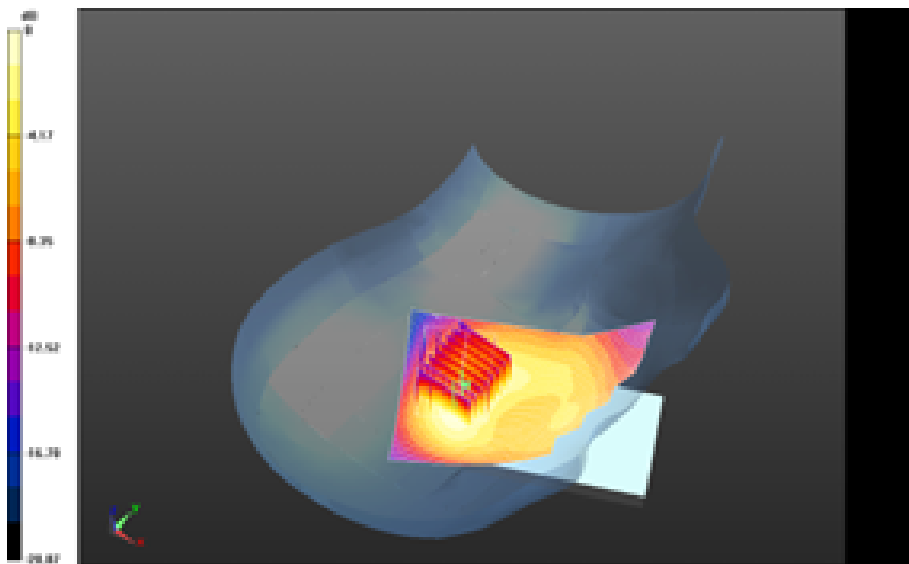
Right-Hand-Side HSL - UMTS Band IV/Tilt Position - UMTS_Band_IV_chan1413_amb_temp_23.8C_liq_temp_21.8C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.312 W/kg

Right-Hand-Side HSL - UMTS Band IV/Tilt Position - UMTS_Band_IV_chan1413_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 14.188 V/m; **Power Drift = 0.093 dB**


Averaged SAR: SAR(1g) = 0.243 W/kg; SAR(10g) = 0.154 W/kg
Maximum value of SAR (interpolated) = 0.367 W/kg

Right-Hand-Side HSL - UMTS Band IV/Tilt Position - UMTS_Band_IV_chan1413_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan 2 (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.188 V/m; **Power Drift = 0.051 dB**

Averaged SAR: SAR(1g) = 0.247 W/kg; SAR(10g) = 0.158 W/kg
Maximum value of SAR (interpolated) = 0.368 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 5/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Left-Hand-Side HSL - UMTS Band IV

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV;

Frequency: 1712.4 MHz

Medium Parameters used: $f=1712.4$ MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 38.856$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - UMTS Band IV/Touch Position -

UMTS_Band_IV_chan1312_amb_temp_23.8C_liq_temp_21.8C/Area Scan (61x91x1):

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

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

Left-Hand-Side HSL - UMTS Band IV/Touch Position -

UMTS_Band_IV_chan1312_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.304 V/m; **Power Drift = -0.069 dB**

Averaged SAR: SAR(1g) = 0.860 W/kg; SAR(10g) = 0.533 W/kg

Maximum value of SAR (interpolated) = 1.29 W/kg

Left-Hand-Side HSL - UMTS Band IV/Touch Position -


UMTS_Band_IV_chan1312_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan 2 (36x26x36)/Cube

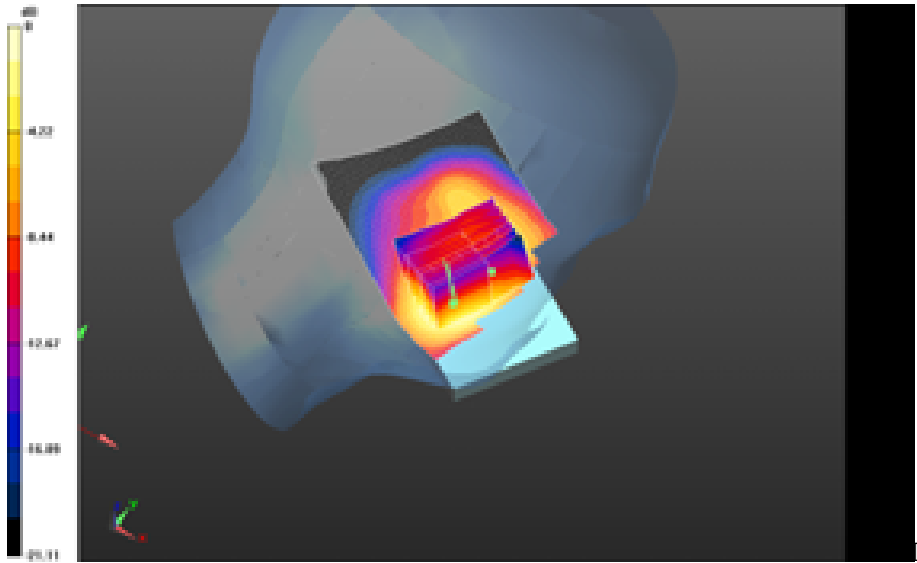
0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.304 V/m; **Power Drift = 0.106 dB**


Averaged SAR: SAR(1g) = 0.845 W/kg; SAR(10g) = 0.531 W/kg

Maximum value of SAR (interpolated) = 1.27 W/kg

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0 dB = 0.962 W/kg = -0.17 dBW/kg

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Left-Hand-Side HSL - UMTS Band IV/Touch Position -

UMTS_Band_IV_chan1413_amb_temp_23.8C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.28 W/kg

Left-Hand-Side HSL - UMTS Band IV/Touch Position -

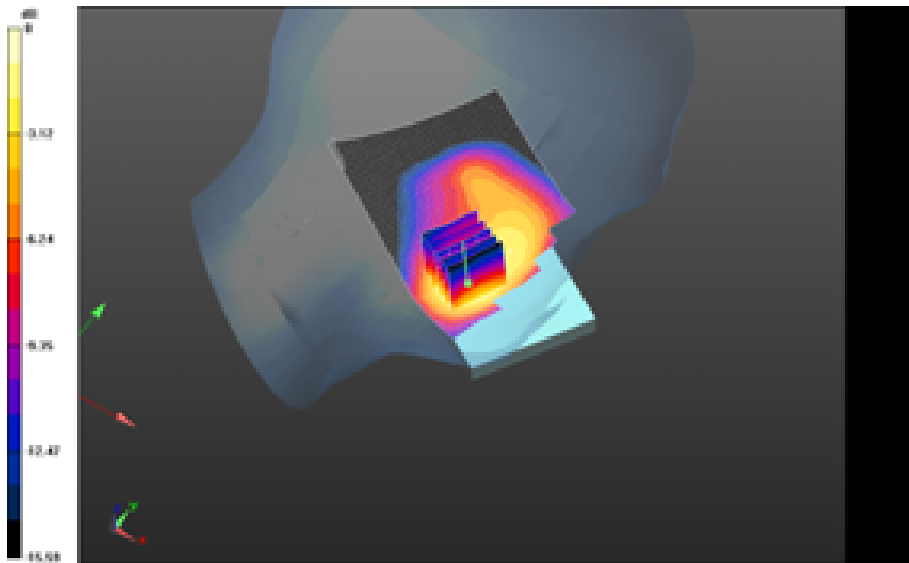
UMTS_Band_IV_chan1413_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 8.830 V/m; **Power Drift = -0.080 dB**

Averaged SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.656 W/kg

Maximum value of SAR (interpolated) = 1.64 W/kg



0 dB = 0.962 W/kg = -0.17 dBW/kg

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Left-Hand-Side HSL - UMTS Band IV/Touch Position -

UMTS_Band_IV_chan1513_amb_temp_23.8C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.34 W/kg

Left-Hand-Side HSL - UMTS Band IV/Touch Position -

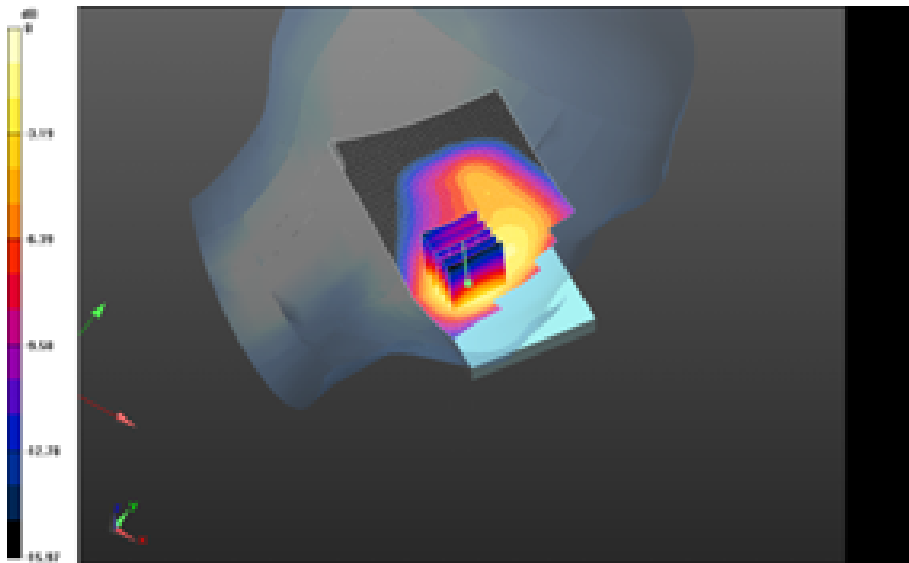
UMTS_Band_IV_chan1513_amb_temp_23.8C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 9.653 V/m; **Power Drift = -0.042 dB**

Averaged SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.681 W/kg

Maximum value of SAR (interpolated) = 1.71 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

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Left-Hand-Side HSL - UMTS Band IV/Tilt Position -

UMTS_Band_IV_chan1413_amb_temp_23.9C_liq_temp_22.2C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.415 W/kg

Left-Hand-Side HSL - UMTS Band IV/Tilt Position -

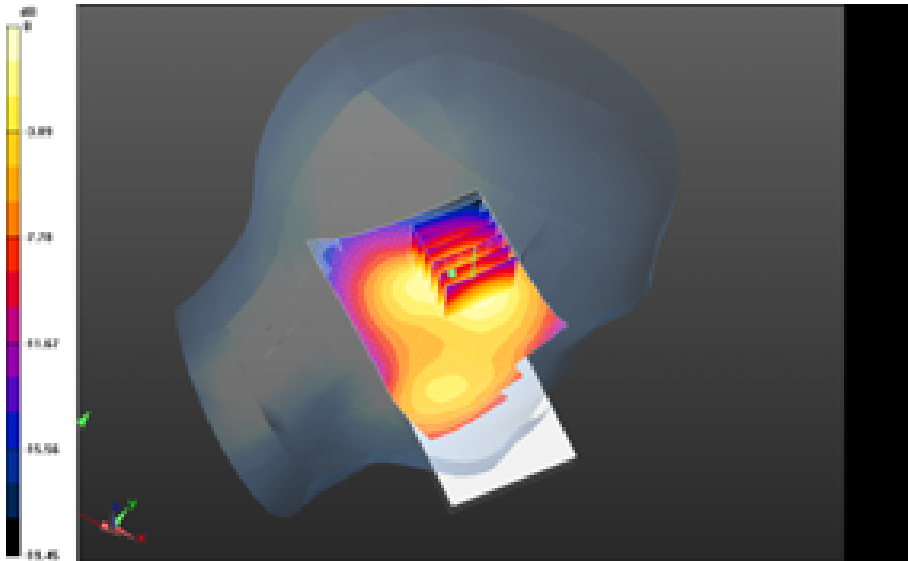
UMTS_Band_IV_chan1413_amb_temp_23.9C_liq_temp_22.2C/Zoom Scan (26x26x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 13.017 V/m; **Power Drift = -0.152 dB**

Averaged SAR: SAR(1g) = 0.324 W/kg; SAR(10g) = 0.203 W/kg


Maximum value of SAR (interpolated) = 0.475 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

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LTE Band 2

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Date: 5/29/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Right-Hand-Side HSL - LTE 2

Communication System: LTE band 2; Communication System Band: LTE band 2; Frequency: 1860 MHz

Medium Parameters used: $f=1860$ MHz; $\sigma = 1.369$ S/m; $\epsilon_r = 39.044$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

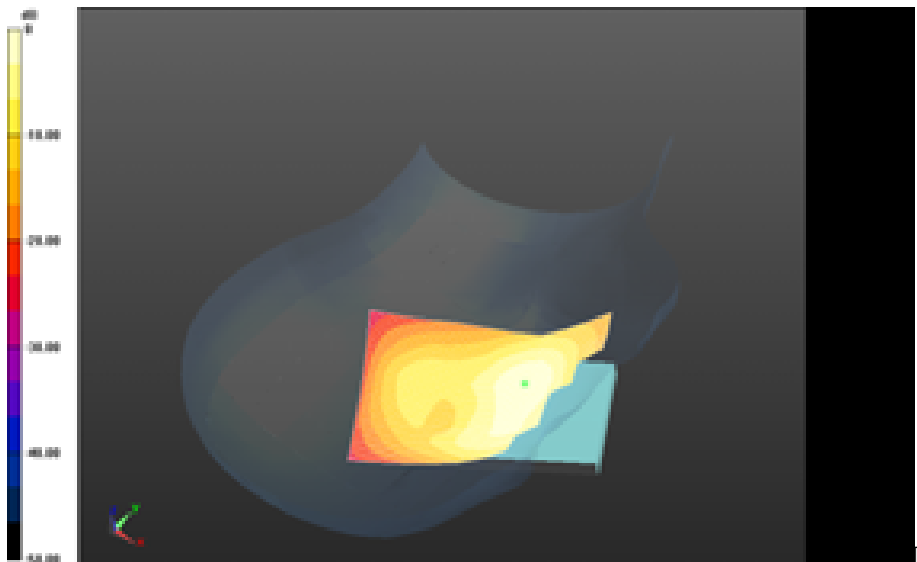
- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - LTE 2/Touch Position -


LTE_2_chan18700_RB1_Offset0_amb_temp_23.3C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.37 W/kg



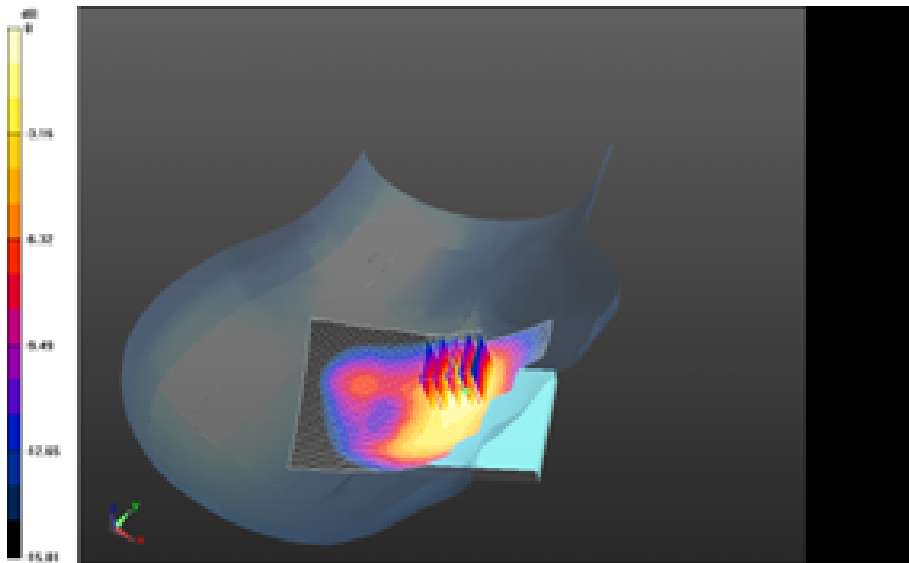
0 dB = 1.37 W/kg = 1.37 dBW/kg

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**Right-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB1_Offset99_amb_temp_23.6C_liq_temp_21.8C/Area Scan (61x91x1):**
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.47 W/kg

**Right-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB1_Offset99_amb_temp_23.6C_liq_temp_21.8C/Zoom Scan
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.411 V/m; **Power Drift = -0.172 dB**

Averaged SAR: SAR(1g) = 1.16 W/kg; SAR(10g) = 0.711 W/kg
Maximum value of SAR (interpolated) = 1.69 W/kg



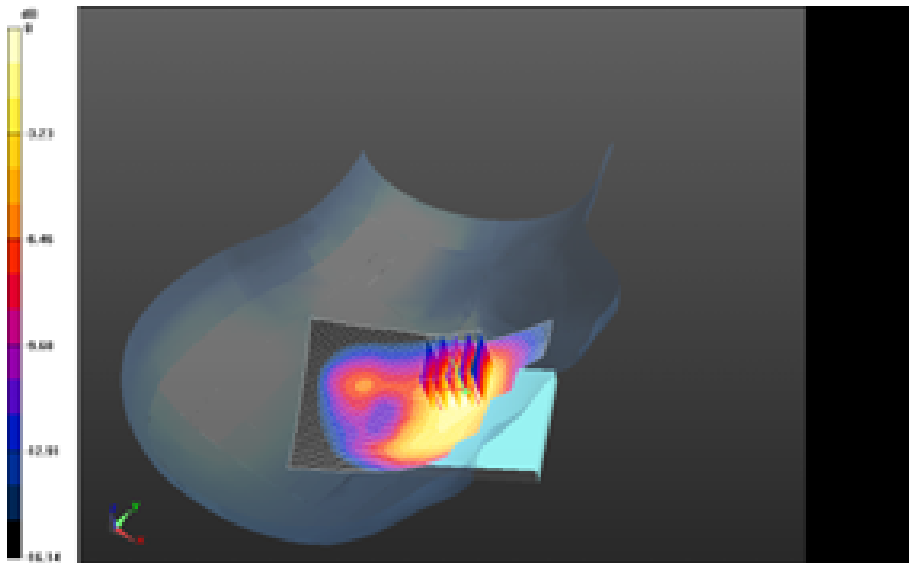
0 dB = 1.37 W/kg = 1.37 dBW/kg

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Right-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan19100_RB1_Offset0_amb_temp_23.3C_liq_temp_21.8C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.53 W/kg

Right-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan19100_RB1_Offset0_amb_temp_23.3C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.203 V/m; **Power Drift = -0.049 dB**

Averaged SAR: SAR(1g) = 1.19 W/kg; SAR(10g) = 0.731 W/kg
Maximum value of SAR (interpolated) = 1.70 W/kg



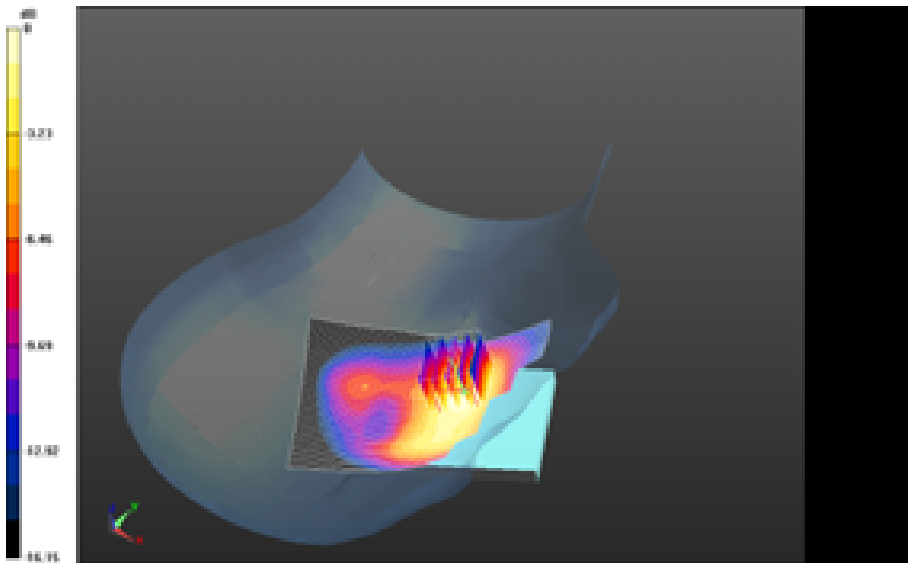
0 dB = 1.34 W/kg = 1.27 dBW/kg

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Right-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB50_Offset50_amb_temp_23.6C_liq_temp_21.8C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.22 W/kg

Right-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB50_Offset50_amb_temp_23.6C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.062 V/m; **Power Drift = 0.021 dB**

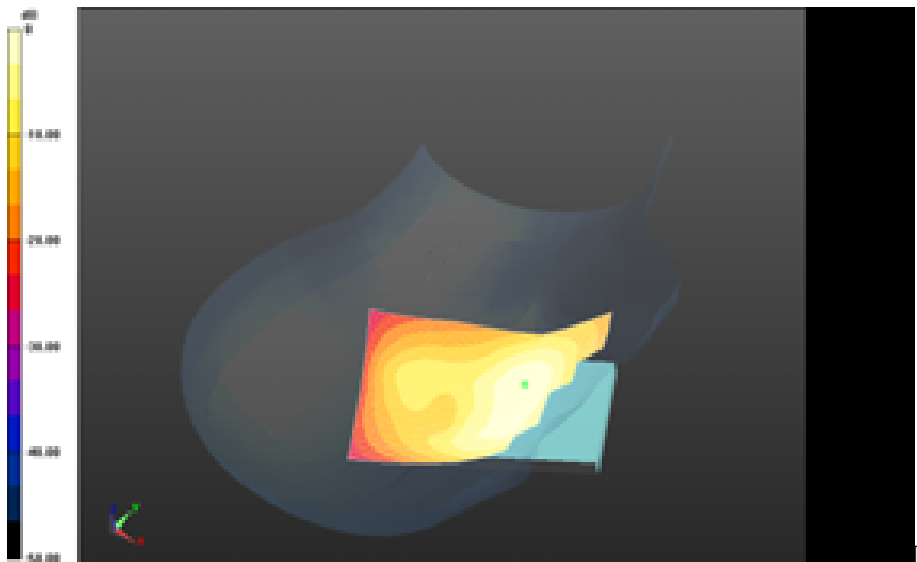
Averaged SAR: SAR(1g) = 0.934 W/kg; SAR(10g) = 0.582 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg




0 dB = 1.38 W/kg = 1.40 dBW/kg

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Right-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB100_Offset0_amb_temp_23.6C_liq_temp_21.8C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.24 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Right-Hand-Side HSL - LTE 2/Tilt Position -

LTE_2_chan18900_RB1_Offset99_amb_temp_23.6C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.358 W/kg

Right-Hand-Side HSL - LTE 2/Tilt Position -

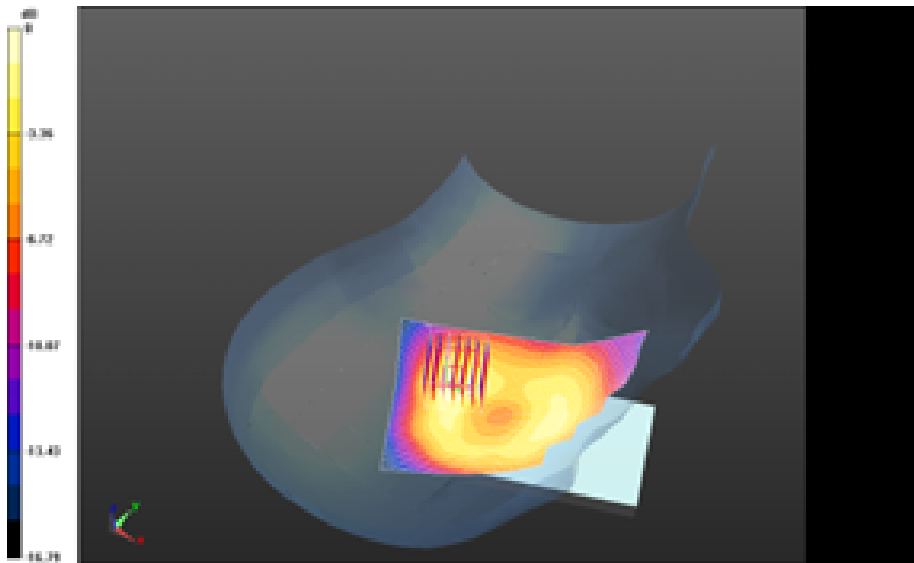
LTE_2_chan18900_RB1_Offset99_amb_temp_23.6C_liq_temp_21.8C/Zoom Scan

(31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm


Reference Value = 13.214 V/m; **Power Drift = -0.124 dB**

Averaged SAR: SAR(1g) = 0.281 W/kg; SAR(10g) = 0.163 W/kg

Maximum value of SAR (interpolated) = 0.429 W/kg



0 dB = 1.24 W/kg = 0.93 dBW/kg

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Date: 5/29/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFB6AF

Configuration: Left-Hand-Side HSL - LTE 2

Communication System: LTE band 2; Communication System Band: LTE Band 2; Frequency: 1860 MHz

Medium Parameters used: $f=1860$ MHz; $\sigma = 1.369$ S/m; $\epsilon_r = 39.044$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - LTE 2/Touch Position -

LTE_2_chan18700_RB1_Offset0_amb_temp_23.3C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.49 W/kg

Left-Hand-Side HSL - LTE 2/Touch Position -


LTE_2_chan18700_RB1_Offset0_amb_temp_23.3C_liq_temp_21.8C/Zoom Scan

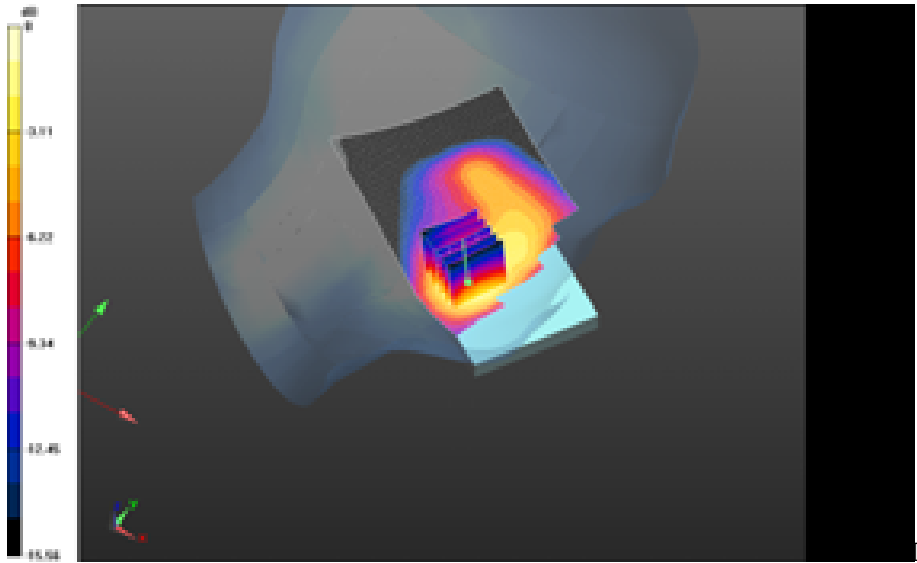
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.042 V/m; **Power Drift = 0.047 dB**


Averaged SAR: SAR(1g) = 1.25 W/kg; SAR(10g) = 0.756 W/kg

Maximum value of SAR (interpolated) = 1.90 W/kg

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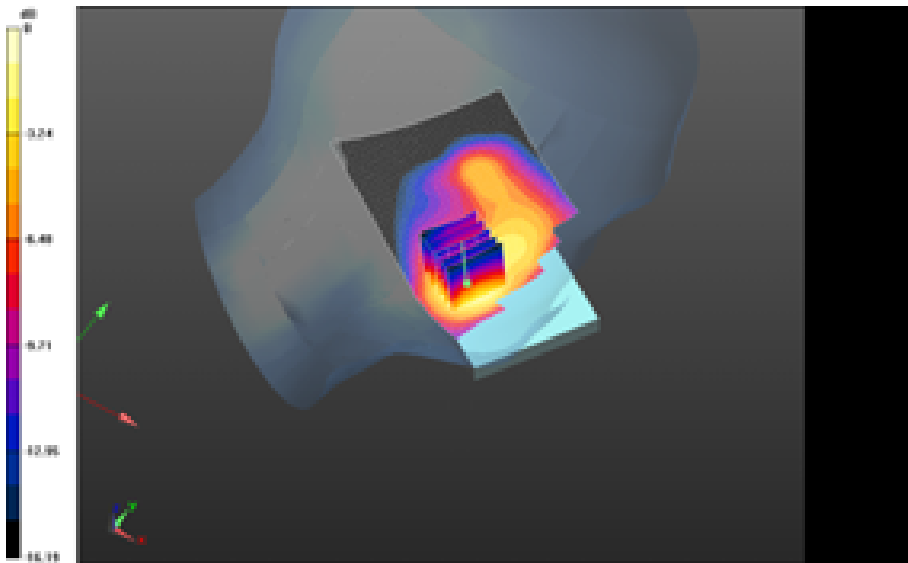
0 dB = 1.49 W/kg = 1.73 dBW/kg

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Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB1_Offset99_amb_temp_23.3C_liq_temp_21.8C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.66 W/kg

Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB1_Offset99_amb_temp_23.3C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.399 V/m; **Power Drift = 0.050 dB**

Averaged SAR: SAR(1g) = 1.37 W/kg; SAR(10g) = 0.823 W/kg
Maximum value of SAR (interpolated) = 2.12 W/kg



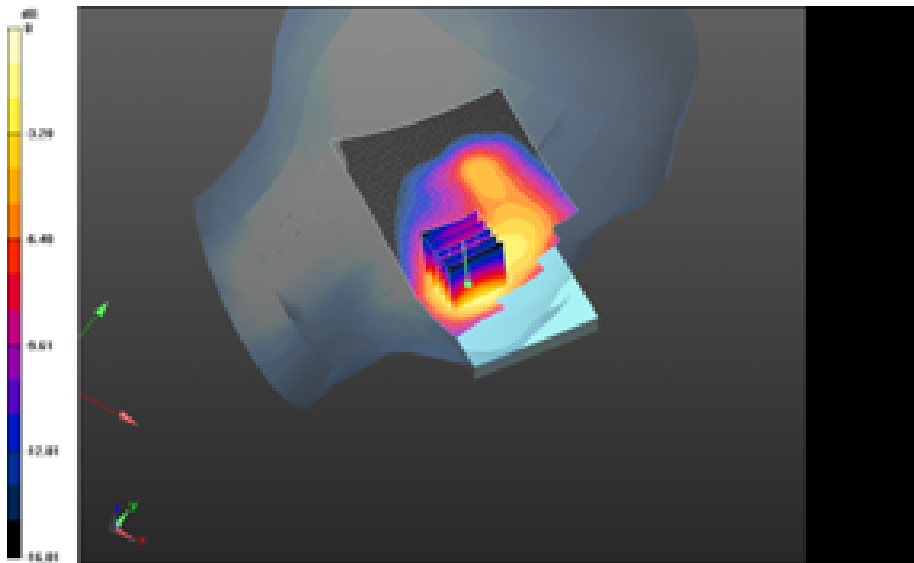
0 dB = 1.49 W/kg = 1.73 dBW/kg

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Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_2nd_Scan_RB1_Offset99_amb_temp_23.3C_liq_temp_21.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.66 W/kg

Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_2nd_Scan_RB1_Offset99_amb_temp_23.3C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.409 V/m; **Power Drift = 0.052 dB**

Averaged SAR: SAR(1g) = 1.38 W/kg; SAR(10g) = 0.825 W/kg
Maximum value of SAR (interpolated) = 2.14 W/kg



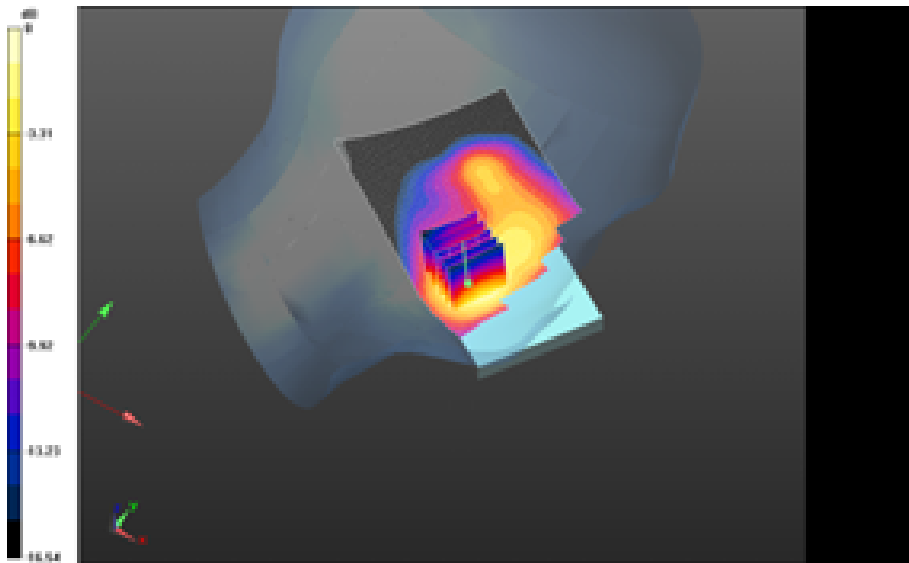
0 dB = 1.65 W/kg = 2.17 dBW/kg

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Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan19100_RB1_Offset0_amb_temp_23.3C_liq_temp_21.8C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.57 W/kg

Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan19100_RB1_Offset0_amb_temp_23.3C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.393 V/m; **Power Drift = -0.028 dB**

Averaged SAR: SAR(1g) = 1.32 W/kg; SAR(10g) = 0.792 W/kg
Maximum value of SAR (interpolated) = 2.05 W/kg



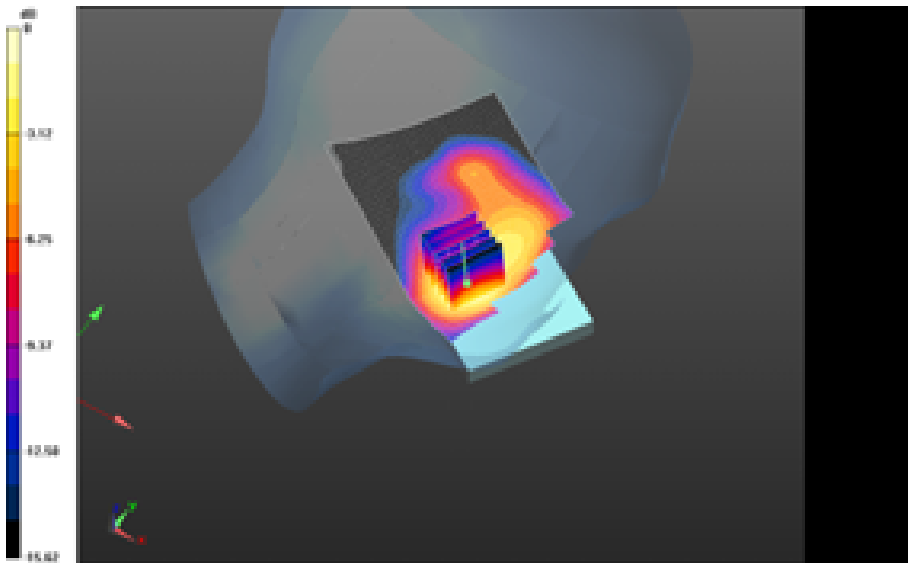
0 dB = 1.65 W/kg = 2.17 dBW/kg

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Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB50_Offset50_amb_temp_23.7C_liq_temp_21.8C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB50_Offset50_amb_temp_23.7C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.651 V/m; **Power Drift = 0.022 dB**

Averaged SAR: SAR(1g) = 1.18 W/kg; SAR(10g) = 0.707 W/kg
Maximum value of SAR (interpolated) = 1.81 W/kg



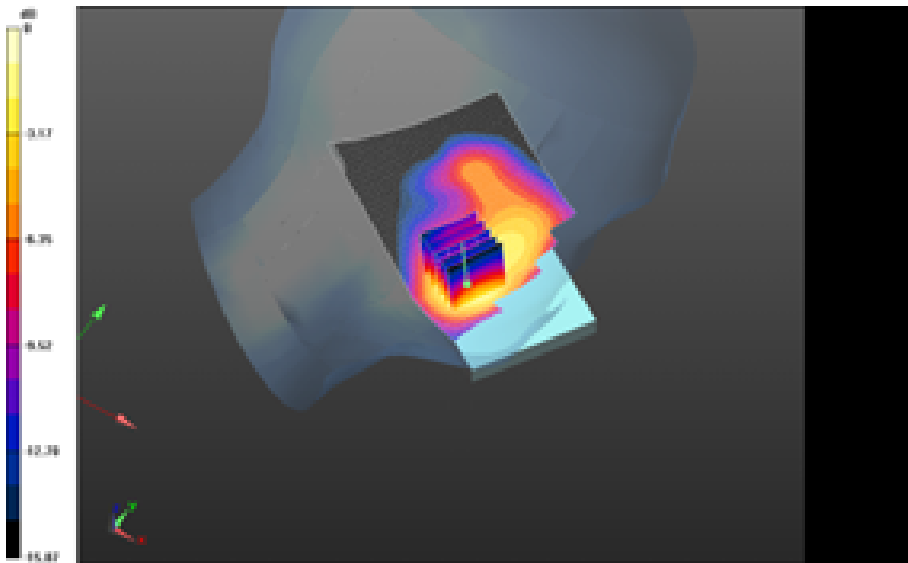
0 dB = 1.58 W/kg = 1.99 dBW/kg

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Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB100_Offset0_amb_temp_23.7C_liq_temp_21.8C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

Left-Hand-Side HSL - LTE 2/Touch Position -
LTE_2_chan18900_RB100_Offset0_amb_temp_23.7C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.588 V/m; **Power Drift = 0.046 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.729 W/kg
Maximum value of SAR (interpolated) = 1.87 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

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Left-Hand-Side HSL - LTE 2/Tilt Position -

LTE_2_chan18900_RB1_Offset99_amb_temp_23.4C_liq_temp_21.8C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 0.613 W/kg

Left-Hand-Side HSL - LTE 2/Tilt Position -

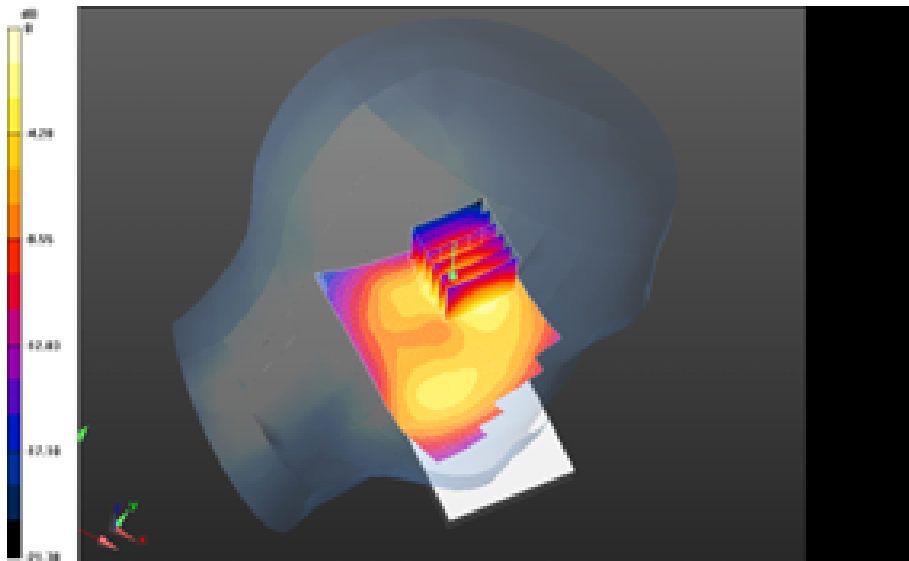
LTE_2_chan18900_RB1_Offset99_amb_temp_23.4C_liq_temp_21.8C/Zoom Scan

(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 12.028 V/m; **Power Drift = -0.069 dB**

Averaged SAR: SAR(1g) = 0.464 W/kg; SAR(10g) = 0.259 W/kg


Maximum value of SAR (interpolated) = 0.755 W/kg



0 dB = 1.45 W/kg = 1.61 dBW/kg

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DTM/GSM 1900

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Date: 3/28/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB035B7

Configuration: Right-Hand-Side HSL - DTM 1900

Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1880 MHz

Medium Parameters used: f=1880 MHz; $\sigma = 1.400$ S/m; $\epsilon_r = 38.411$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.3C_liq_temp_21.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.737 W/kg

Right-Hand-Side HSL - DTM 1900/Touch Position -


DTM1900_chan661_amb_temp_23.3C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

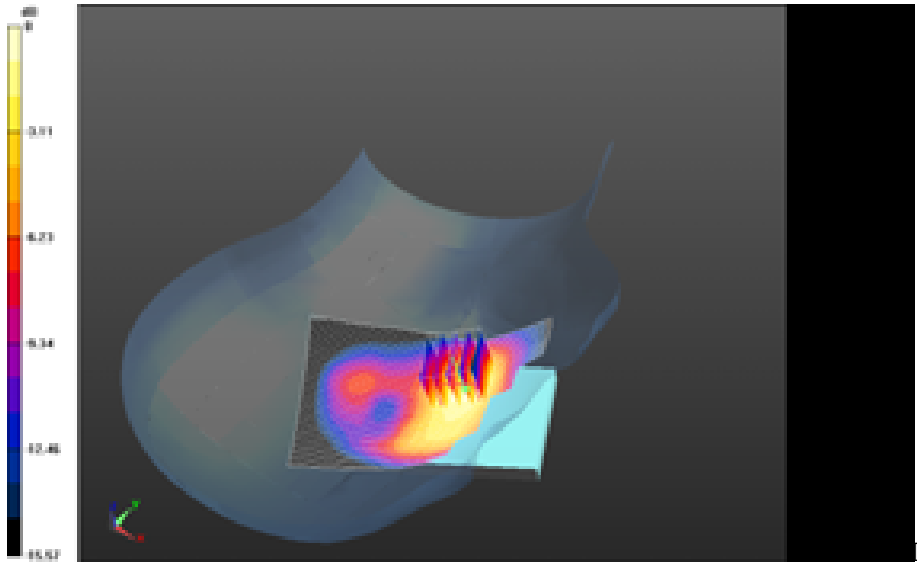
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 8.331 V/m; **Power Drift = -0.138 dB**


Averaged SAR: SAR(1g) = 0.594 W/kg; SAR(10g) = 0.361 W/kg

Maximum value of SAR (interpolated) = 0.862 W/kg

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0 dB = 0.668 W/kg = -1.75 dBW/kg

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Date: 3/28/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB035B7

Configuration: Left-Hand-Side HSL - DTM 1900

Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.400$ S/m; $\epsilon_r = 38.411$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.3C_liq_temp_21.8C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.731 W/kg

Left-Hand-Side HSL - DTM 1900/Touch Position -


DTM1900_chan661_amb_temp_23.3C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

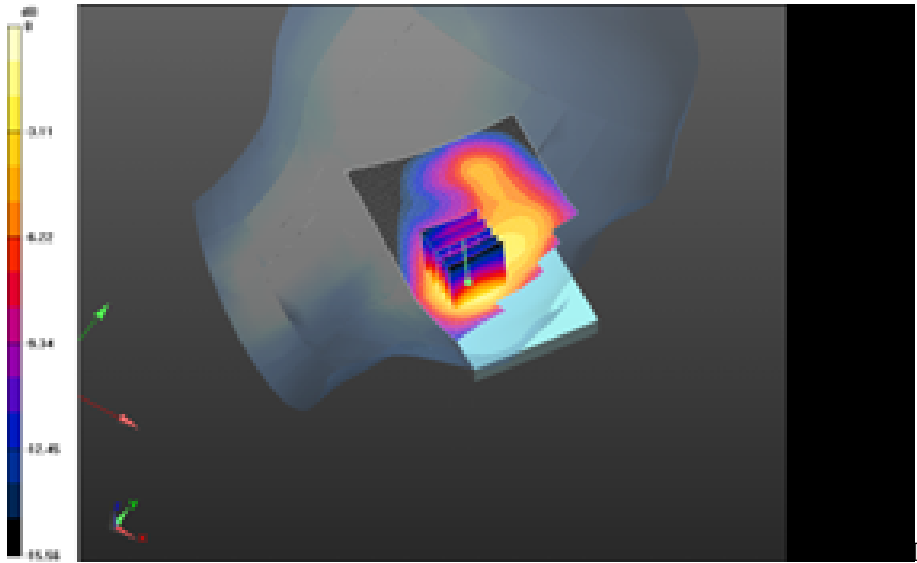
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.875 V/m; **Power Drift = 0.173 dB**


Averaged SAR: SAR(1g) = 0.612 W/kg; SAR(10g) = 0.365 W/kg

Maximum value of SAR (interpolated) = 0.939 W/kg


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0 dB = 0.731 W/kg = -1.36 dBW/kg

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UMTS Band II

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Date: 5/16/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2FFFB6AF

Configuration: Left-Hand-Side HSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.335$ S/m; $\epsilon_r = 39.325$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9262_amb_temp_23.4C_liq_temp_21.3C/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.47 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9262_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.658 V/m; **Power Drift = 0.014 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.749 W/kg

Maximum value of SAR (interpolated) = 1.80 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9262_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan 2 (36x31x36)/Cube

0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.658 V/m; **Power Drift = 0.027 dB**

Averaged SAR: SAR(1g) = 1.21 W/kg; SAR(10g) = 0.746 W/kg

Maximum value of SAR (interpolated) = 1.84 W/kg

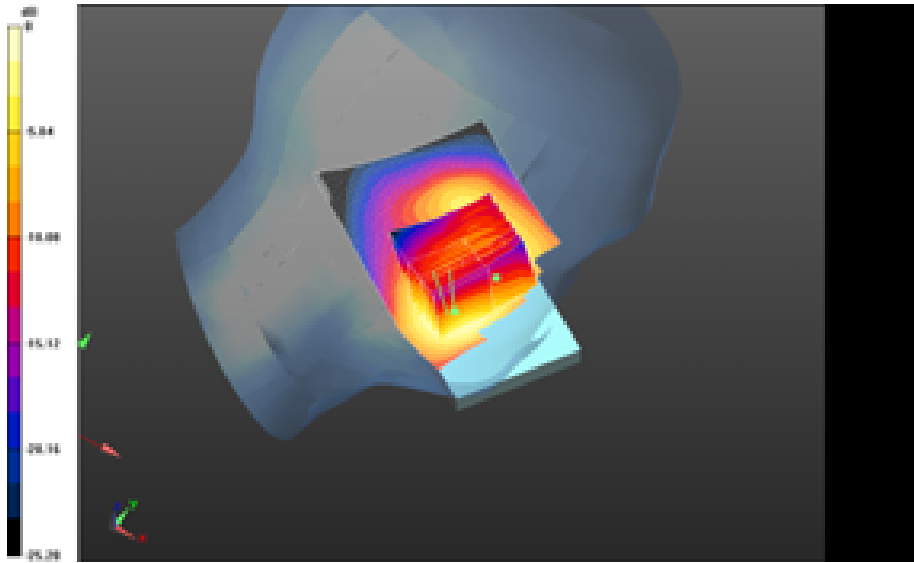
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 30, 2013


Test Report No
RTS-6036-1305-06B

FCC ID:
L6ARFR100LW

IC
2503A-RFR100LW



0 dB = 1.42 W/kg = 1.52 dBW/kg

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Left-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.3C/Area Scan (61x91x1):

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

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

Left-Hand-Side HSL - UMTS Band II/Touch Position -

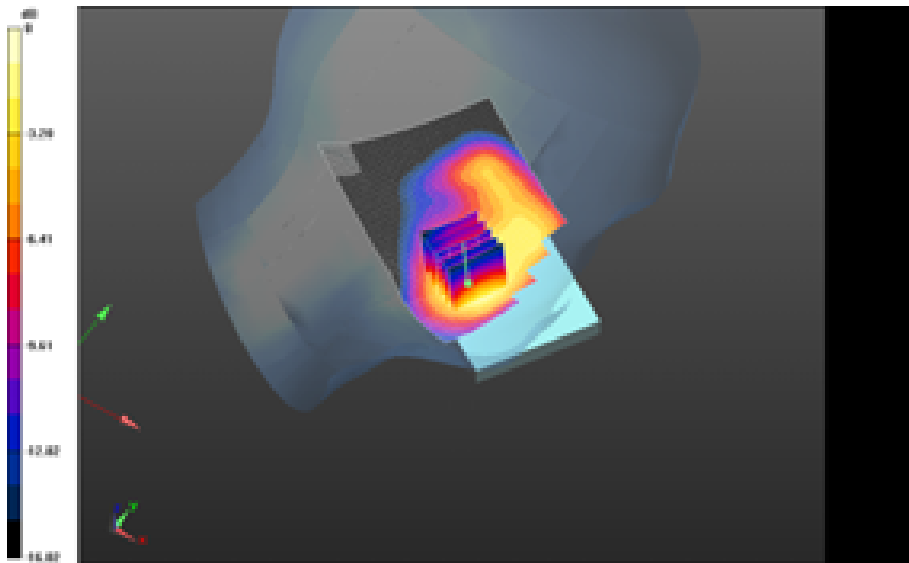
UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 9.342 V/m; **Power Drift = -0.079 dB**

Averaged SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.789 W/kg

Maximum value of SAR (interpolated) = 1.94 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg

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Left-Hand-Side HSL - UMTS Band II/Touch Position -

UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.3C_2nd/Area Scan (61x91x1):

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

Maximum value of SAR (interpolated) = 1.60 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position -

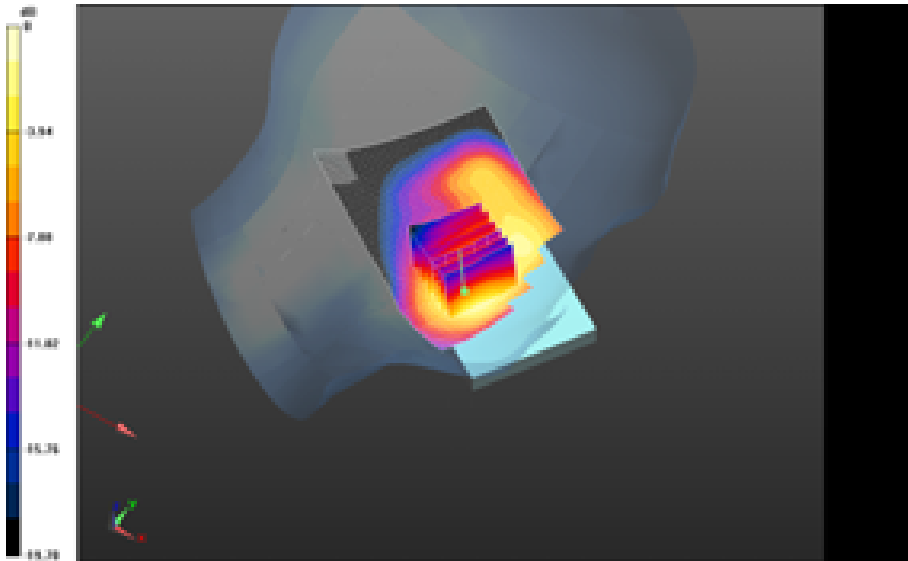
UMTS_band_II_chan9400_amb_temp_23.4C_liq_temp_21.3C_2nd/Zoom Scan

(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 9.179 V/m; **Power Drift = -0.00424 dB**

Averaged SAR: SAR(1g) = 1.29 W/kg; SAR(10g) = 0.785 W/kg

Maximum value of SAR (interpolated) = 1.97 W/kg



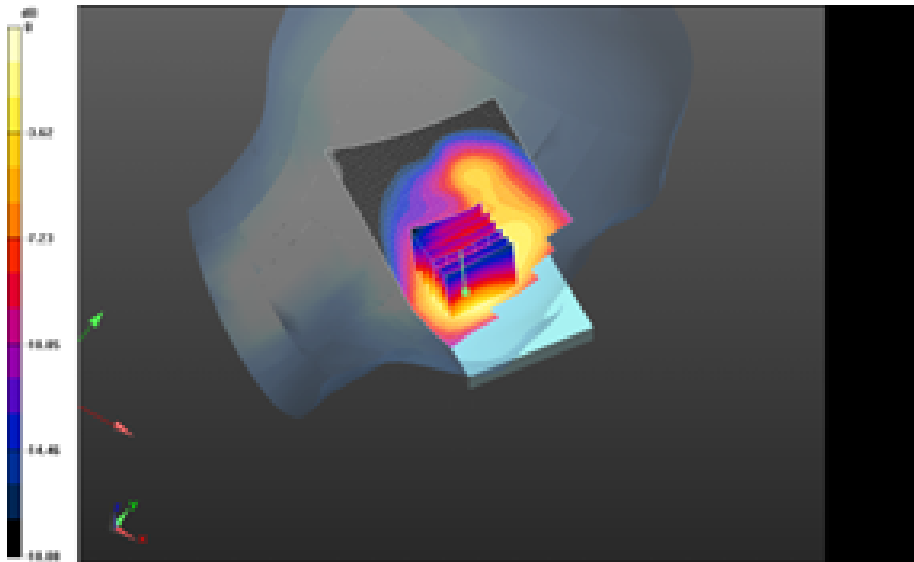
0 dB = 1.53 W/kg = 1.85 dBW/kg

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Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9538_amb_temp_23.4C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.49 W/kg

Left-Hand-Side HSL - UMTS Band II/Touch Position - UMTS_band_II_chan9538_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.226 V/m; **Power Drift = -0.00388 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.738 W/kg
Maximum value of SAR (interpolated) = 1.90 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

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Z axis plot for the worst case head configuration

