## APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

# LTE Band 13

Date: 2/26/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Right-Hand-Side HSL - LTE Band 13

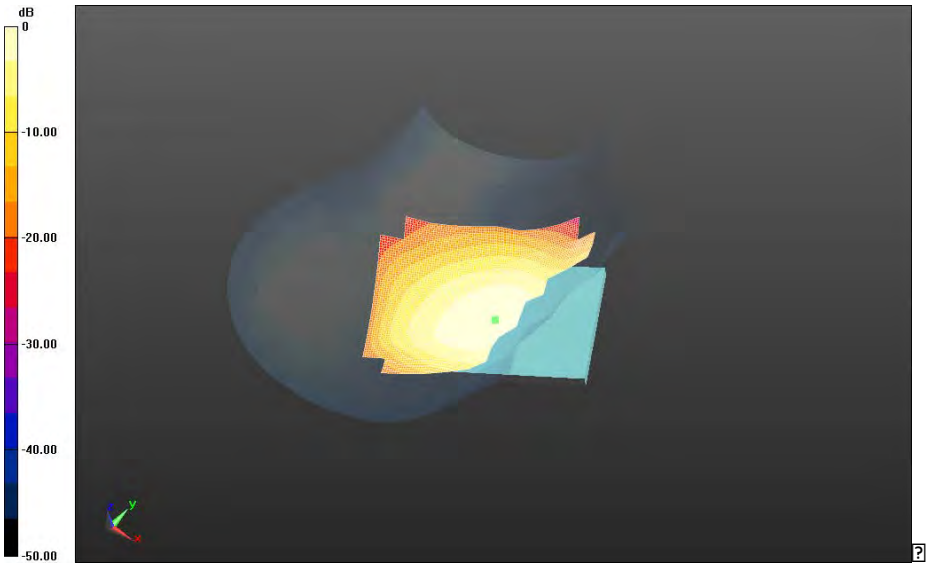
Communication System: LTE band 13 (0); Communication System Band: LTE band 13; Frequency: 782 MHz
Medium Parameters used: f=782 MHz; $\sigma$ = 0.922 S/m; $\varepsilon_r$ = 40.947; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - LTE Band 13/Touch Position -LTE band 13_chan23230_10MHz_BW_RB1_Offset_Low_amb_temp_24.6C_liq_temp_21.9C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.813 V/m; **Power Drift = 0.328 dB**

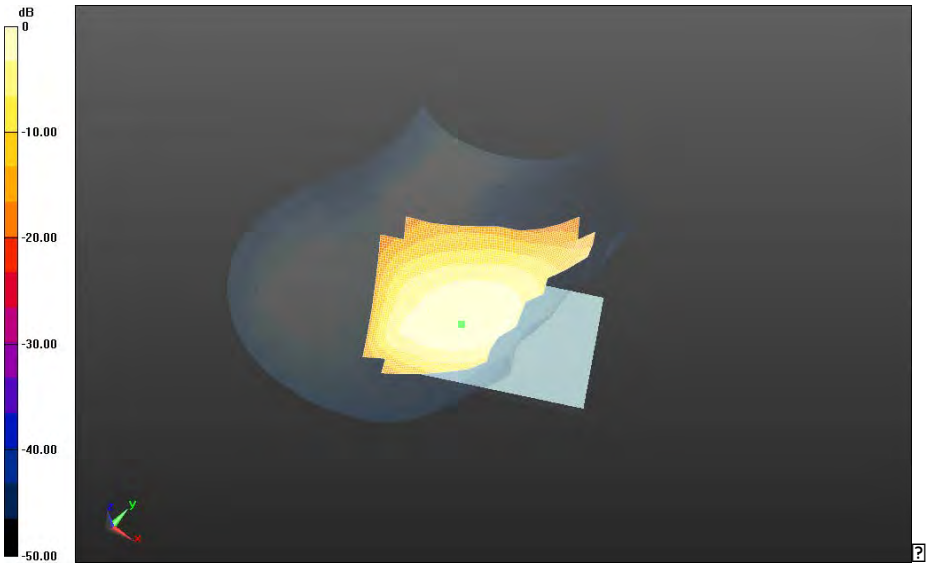
**Fast SAR: SAR(1g) = 0.373 W/kg; SAR(10g) = 0.257 W/kg**
Maximum value of SAR (interpolated) = 0.397 W/kg




0 dB = 0.397 W/kg = -4.01 dBW/kg

**Right-Hand-Side HSL - LTE Band 13/Tilt Position -LTE band 13_chan23230_10MHz_BW_RB1_Offset_Low_amb_temp_24.2C_liq_temp_21.8C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.241 V/m; **Power Drift = -0.022 dB**

**Fast SAR: SAR(1g) = 0.296 W/kg; SAR(10g) = 0.206 W/kg**
Maximum value of SAR (interpolated) = 0.315 W/kg




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

Date: 2/26/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Left-Hand-Side HSL - LTE Band 13

Communication System: LTE band 13 (0); Communication System Band: LTE band 13; Frequency: 782 MHz
Medium Parameters used: f=782 MHz; $\sigma$ = 0.922 S/m; $\varepsilon_r$ = 40.947; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

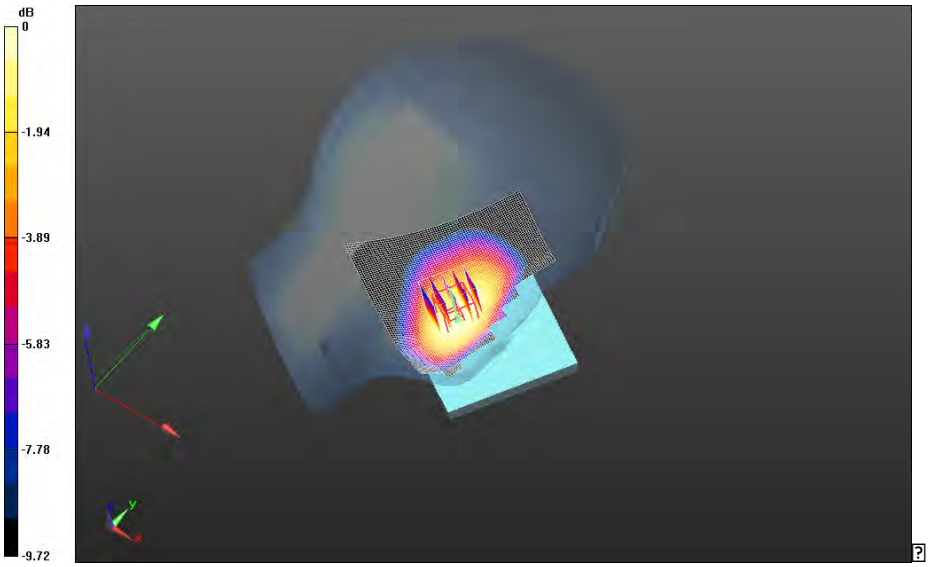
- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - LTE Band 13/Touch Position -LTE band 13_chan23230_10MHz_BW_RB1_Offset_Low_amb_temp_24.2C_liq_temp_21.8C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.156 V/m; **Power Drift = -0.00909 dB**

**Fast SAR: SAR(1g) = 0.526 W/kg; SAR(10g) = 0.355 W/kg**
Maximum value of SAR (interpolated) = 0.568 W/kg

**Left-Hand-Side HSL - LTE Band 13/Touch Position -LTE band 13_chan23230_10MHz_BW_RB1_Offset_Low_amb_temp_24.2C_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 = 10.156 V/m; **Power Drift = -0.00909 dB**

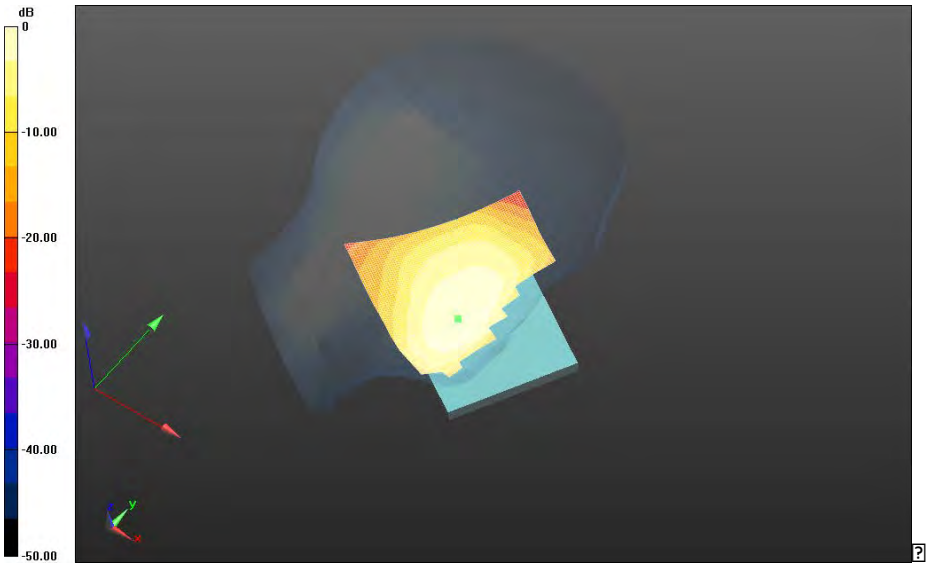
**Averaged SAR: SAR(1g) = 0.529 W/kg; SAR(10g) = 0.382 W/kg**
Maximum value of SAR (interpolated) = 0.716 W/kg




0 dB = 0.561 W/kg = -2.51 dBW/kg

**Left-Hand-Side HSL - LTE Band 13/Touch Position -LTE band 13_chan23230_10MHz_BW_RB25_Offset_Low_amb_temp_24.0C_liq_temp_21.7C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.084 V/m; **Power Drift = -0.121 dB**

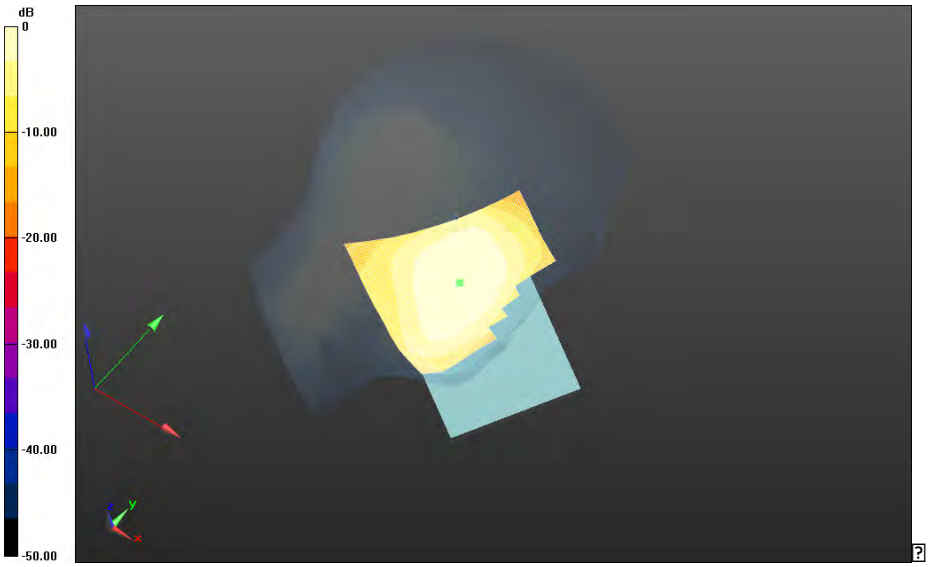
**Fast SAR: SAR(1g) = 0.373 W/kg; SAR(10g) = 0.252 W/kg**
Maximum value of SAR (interpolated) = 0.403 W/kg




0 dB = 0.403 W/kg = -3.95 dBW/kg

**Left-Hand-Side HSL - LTE Band 13/Tilt Position -LTE band 13_chan23230_10MHz_BW_RB1_Offset_Low_amb_temp_24.5C_liq_temp_21.7C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.605 V/m; **Power Drift = -0.085 dB**

**Fast SAR: SAR(1g) = 0.257 W/kg; SAR(10g) = 0.179 W/kg**
Maximum value of SAR (interpolated) = 0.273 W/kg




0 dB = 0.273 W/kg = -5.64 dBW/kg

# LTE Band 17

Date: 2/26/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Right-Hand-Side HSL - LTE Band 17

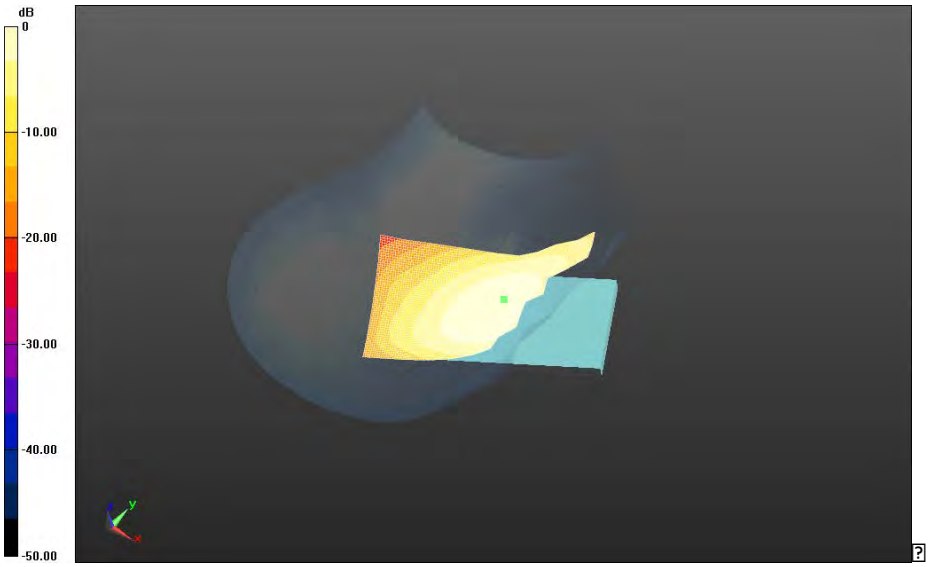
Communication System: LTE band 17 (0); Communication System Band: LTE 17; Frequency: 710 MHz
Medium Parameters used: f=710 MHz; $\sigma$ = 0.859 S/m; $\varepsilon_r$ = 41.956; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - LTE Band 17/Touch Position -LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_24.2C_liq_temp_20.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.829 V/m; **Power Drift = -0.194 dB**

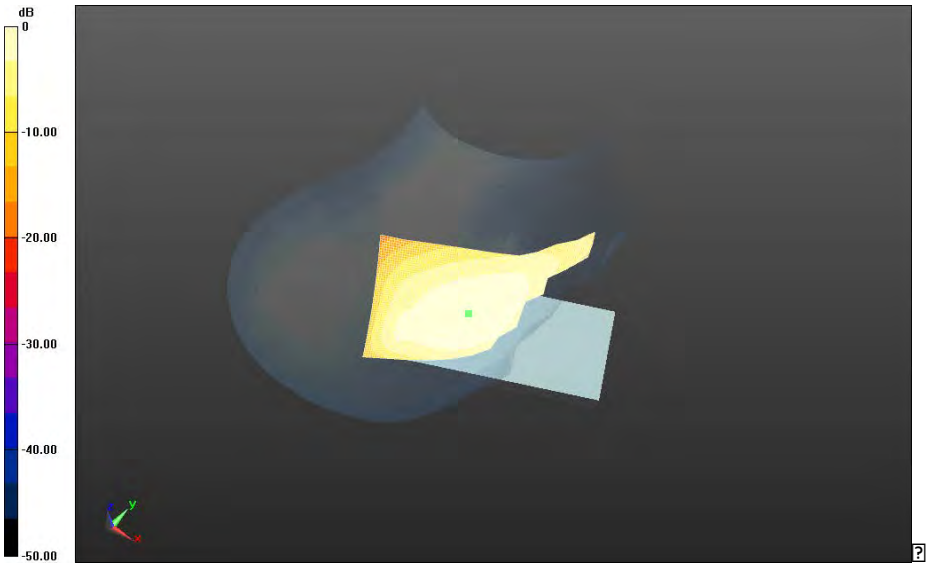
**Fast SAR: SAR(1g) = 0.183 W/kg; SAR(10g) = 0.126 W/kg**
Maximum value of SAR (interpolated) = 0.189 W/kg




0 dB = 0.189 W/kg = -7.24 dBW/kg

**Right-Hand-Side HSL - LTE Band 17/Tilt Position -LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_20.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.606 V/m; **Power Drift = -0.031 dB**

**Fast SAR: SAR(1g) = 0.120 W/kg; SAR(10g) = 0.0846 W/kg**
Maximum value of SAR (interpolated) = 0.125 W/kg




0 dB = 0.125 W/kg = -9.03 dBW/kg

Date: 2/27/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Left-Hand-Side HSL - LTE Band 17

Communication System: LTE band 17 (0); Communication System Band: LTE 17; Frequency: 709 MHz
Medium Parameters used: f=709 MHz; $\sigma$ = 0.859 S/m; $\varepsilon_r$ = 41.973; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

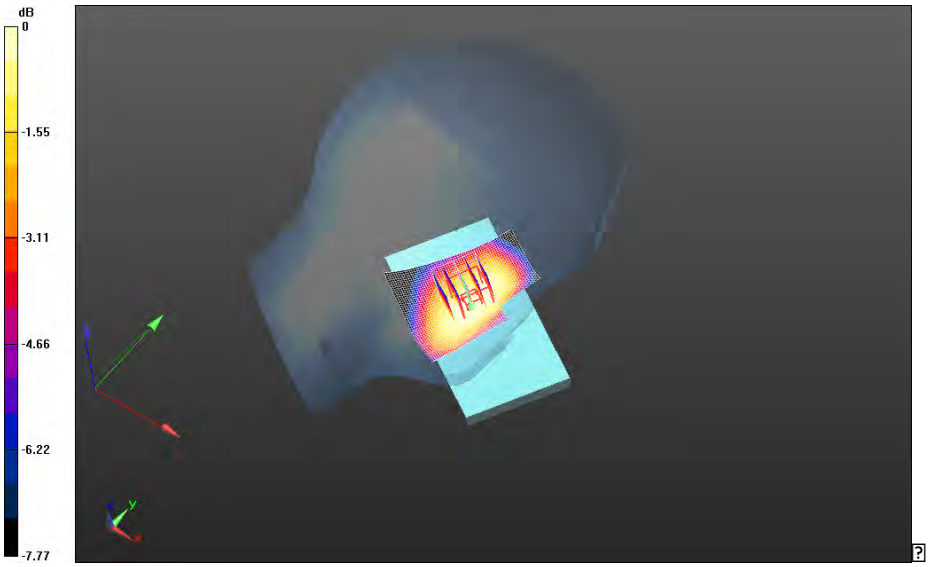
- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - LTE Band 17/Touch Position - LTE band 17_chan23780_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_20.8C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.215 V/m; **Power Drift = 0.120 dB**

**Fast SAR: SAR(1g) = 0.205 W/kg; SAR(10g) = 0.142 W/kg**
Maximum value of SAR (interpolated) = 0.213 W/kg

**Left-Hand-Side HSL - LTE Band 17/Touch Position - LTE band 17_chan23780_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_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 = 6.215 V/m; **Power Drift = 0.120 dB**

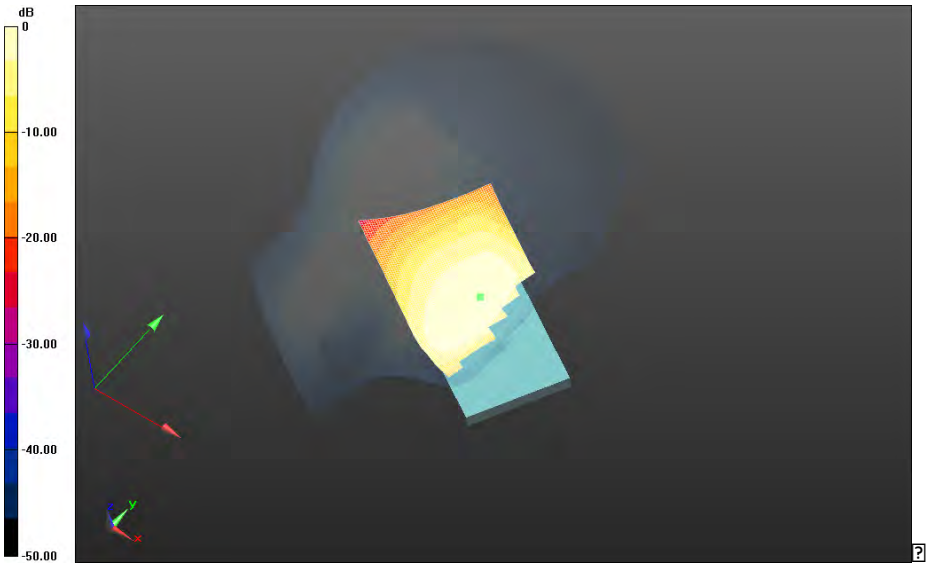
**Averaged SAR: SAR(1g) = 0.207 W/kg; SAR(10g) = 0.160 W/kg**
Maximum value of SAR (interpolated) = 0.246 W/kg




0 dB = 0.212 W/kg = -6.74 dBW/kg

**Left-Hand-Side HSL - LTE Band 17/Touch Position - LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_20.8C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.293 V/m; **Power Drift = -0.136 dB**

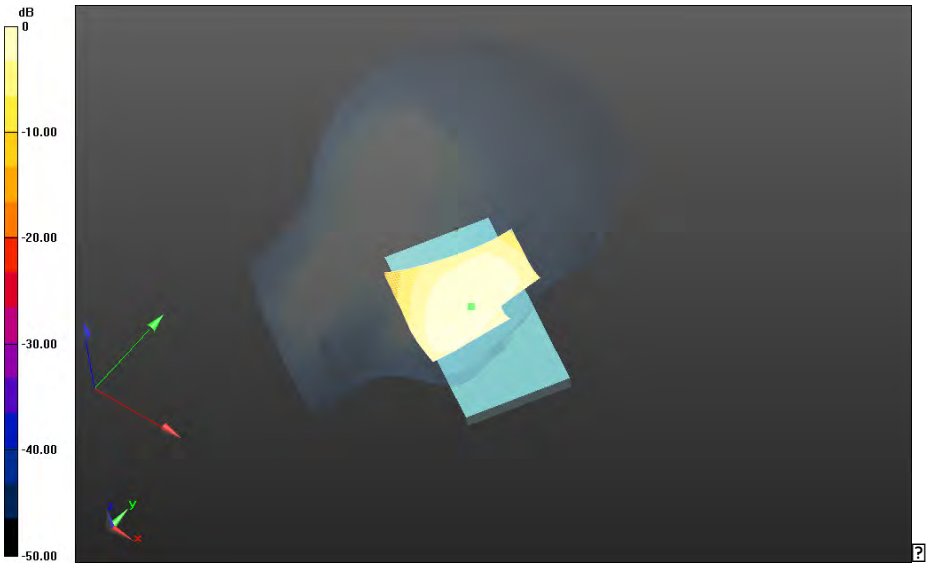
**Fast SAR: SAR(1g) = 0.199 W/kg; SAR(10g) = 0.139 W/kg**
Maximum value of SAR (interpolated) = 0.207 W/kg




0 dB = 0.207 W/kg = -6.84 dBW/kg

**Left-Hand-Side HSL - LTE Band 17/Touch Position - LTE band 17_chan23800_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_20.9C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.862 V/m; **Power Drift = 0.149 dB**

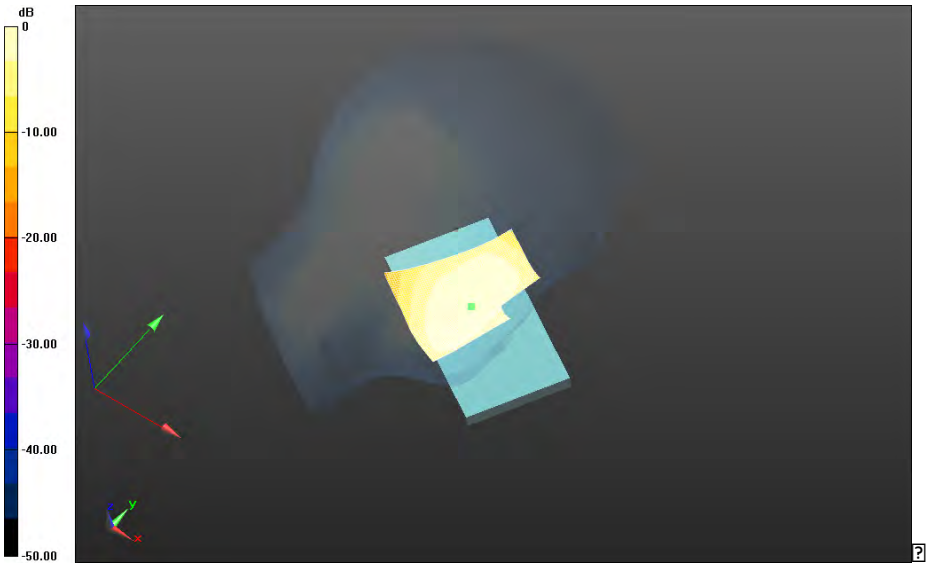
**Fast SAR: SAR(1g) = 0.178 W/kg; SAR(10g) = 0.123 W/kg**
Maximum value of SAR (interpolated) = 0.185 W/kg




0 dB = 0.185 W/kg = -7.33 dBW/kg

**Left-Hand-Side HSL - LTE Band 17/Touch Position - LTE band 17_chan23780_10MHz_BW_RB25_Offset_High_amb_temp_23.9C_liq_temp_20.8C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.265 V/m; **Power Drift = 0.048 dB**

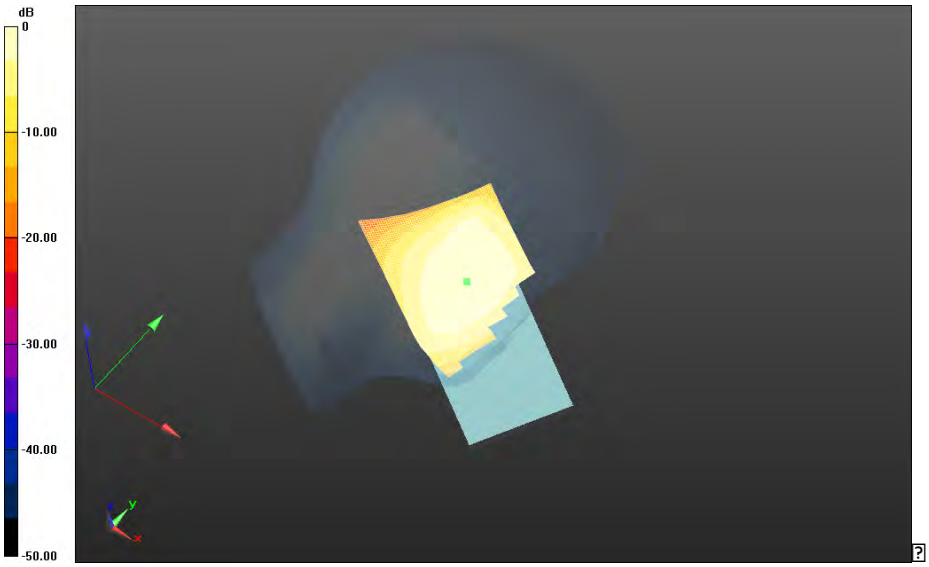
**Fast SAR: SAR(1g) = 0.143 W/kg; SAR(10g) = 0.0992 W/kg**
Maximum value of SAR (interpolated) = 0.148 W/kg




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

**Left-Hand-Side HSL - LTE Band 17/Tilt Position - LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_20.8C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.850 V/m; **Power Drift = -0.118 dB**

**Fast SAR: SAR(1g) = 0.132 W/kg; SAR(10g) = 0.0921 W/kg**
Maximum value of SAR (interpolated) = 0.137 W/kg




0 dB = 0.137 W/kg = -8.63 dBW/kg

# LTE Band 5

Date: 2/25/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Right-Hand-Side HSL - LTE Band 5

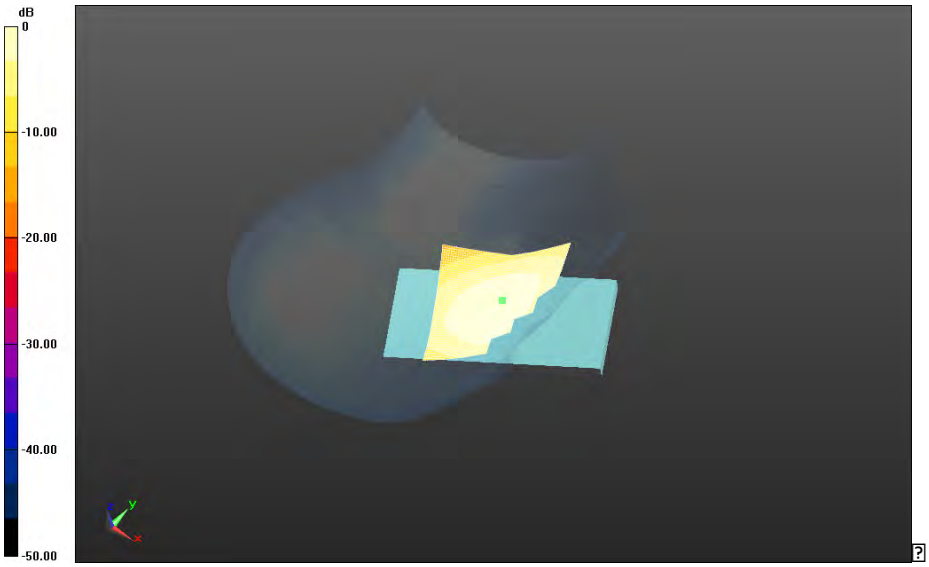
Communication System: LTE 5 (0); Communication System Band: LTE 5; Frequency: 829 MHz
Medium Parameters used: f=829 MHz; $\sigma$ = 0.883 S/m; $\varepsilon_r$ = 41.778; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - LTE Band 5/Touch Position -LTE band 5_chan20450_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_20.7C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.155 V/m; **Power Drift = -0.00933 dB**

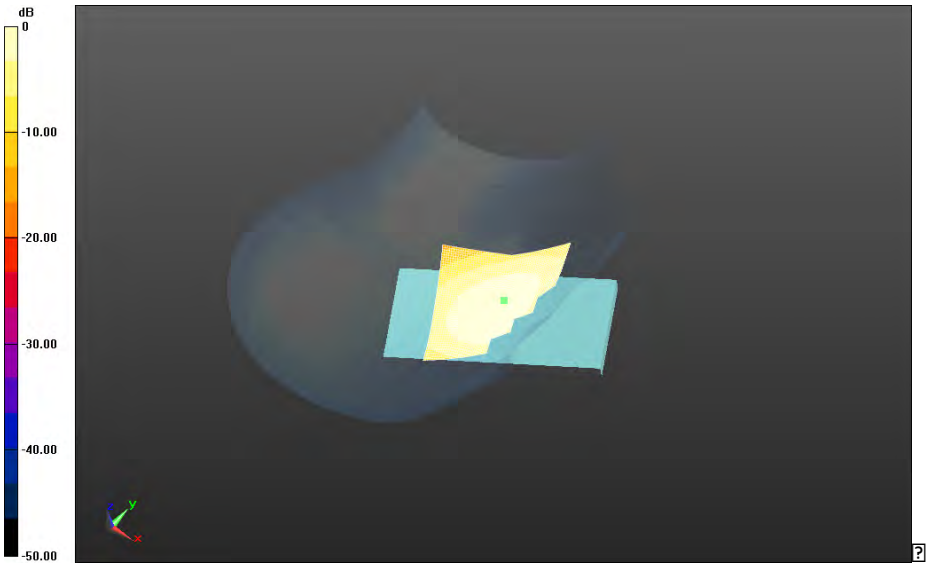
**Fast SAR: SAR(1g) = 0.373 W/kg; SAR(10g) = 0.254 W/kg**
Maximum value of SAR (interpolated) = 0.392 W/kg



0 dB = 0.392 W/kg = -4.07 dBW/kg

**Right-Hand-Side HSL - LTE Band 5/Touch Position -LTE band 5_chan20525_10MHz_BW_RB1_Offset_Low_amb_temp_23.7C_liq_temp_20.7C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.850 V/m; **Power Drift = -0.051 dB**

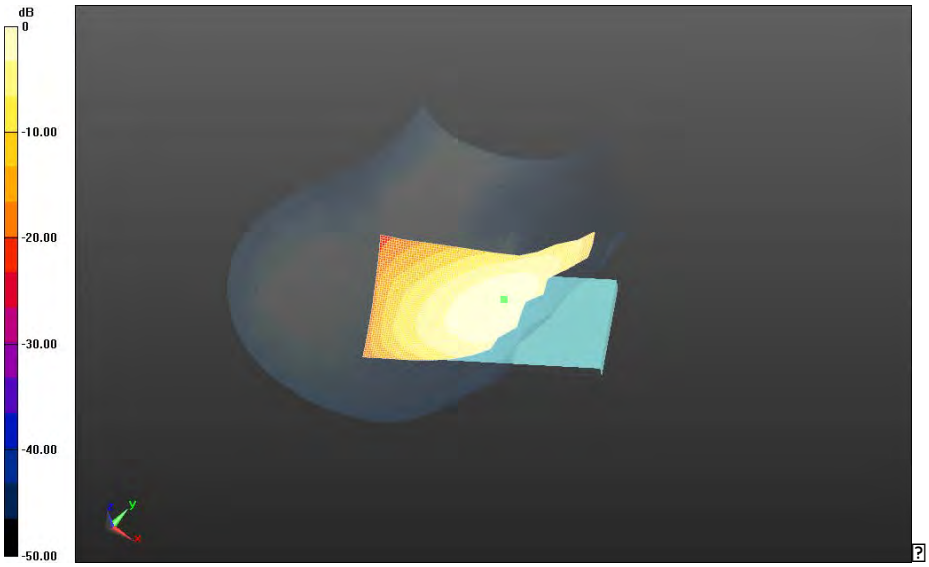
**Fast SAR: SAR(1g) = 0.267 W/kg; SAR(10g) = 0.182 W/kg**
Maximum value of SAR (interpolated) = 0.284 W/kg




0 dB = 0.284 W/kg = -5.47 dBW/kg

**Right-Hand-Side HSL - LTE Band 5/Touch Position -LTE band 5_chan20600_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_20.7C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.910 V/m; **Power Drift = -0.034 dB**

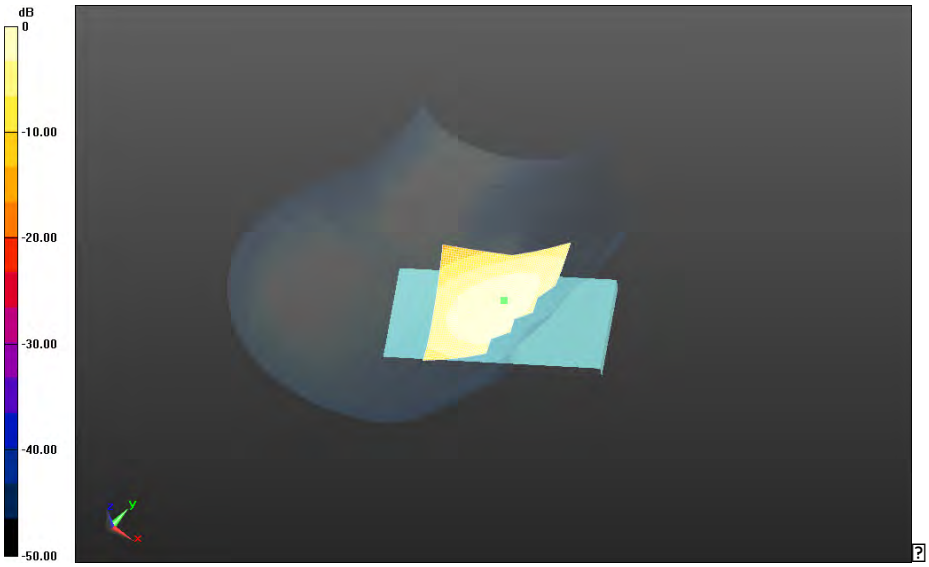
**Fast SAR: SAR(1g) = 0.369 W/kg; SAR(10g) = 0.250 W/kg**
Maximum value of SAR (interpolated) = 0.389 W/kg




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

**Right-Hand-Side HSL - LTE Band 5/Touch Position -LTE band 5_chan20525_10MHz_BW_RB25_Offset_Low_amb_temp_23.6C_liq_temp_20.7C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.831 V/m; **Power Drift = -0.083 dB**

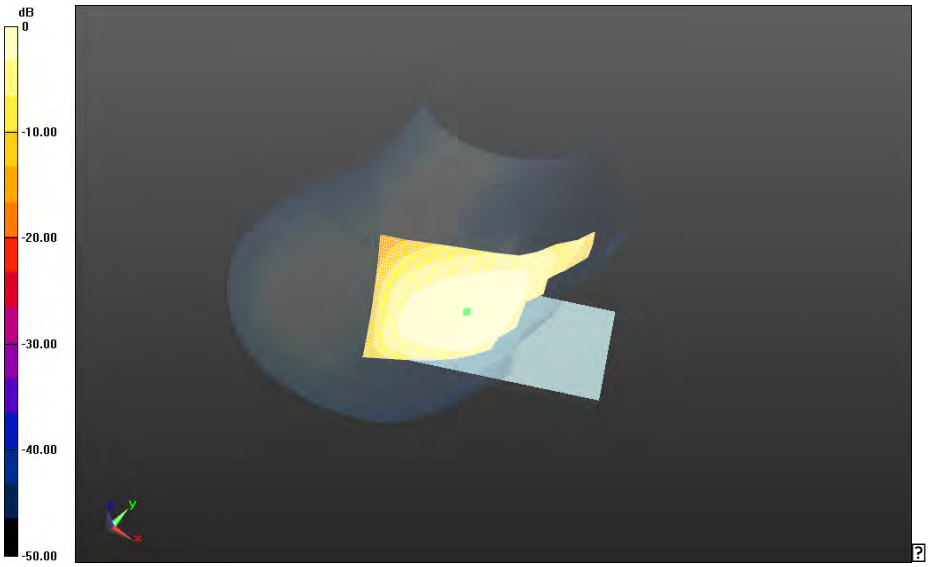
**Fast SAR: SAR(1g) = 0.261 W/kg; SAR(10g) = 0.177 W/kg**
Maximum value of SAR (interpolated) = 0.277 W/kg




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

**Right-Hand-Side HSL - LTE Band 5/Tilt Position - LTE band 5_chan20600_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_20.8C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.716 V/m; **Power Drift = -0.064 dB**

**Fast SAR: SAR(1g) = 0.186 W/kg; SAR(10g) = 0.129 W/kg**
Maximum value of SAR (interpolated) = 0.195 W/kg




0 dB = 0.195 W/kg = -7.10 dBW/kg

Date: 2/25/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Left-Hand-Side HSL - LTE Band 5

Communication System: LTE 5 (0); Communication System Band: LTE 5; Frequency: 829 MHz
Medium Parameters used: f=829 MHz; $\sigma$ = 0.883 S/m; $\varepsilon_r$ = 41.778; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

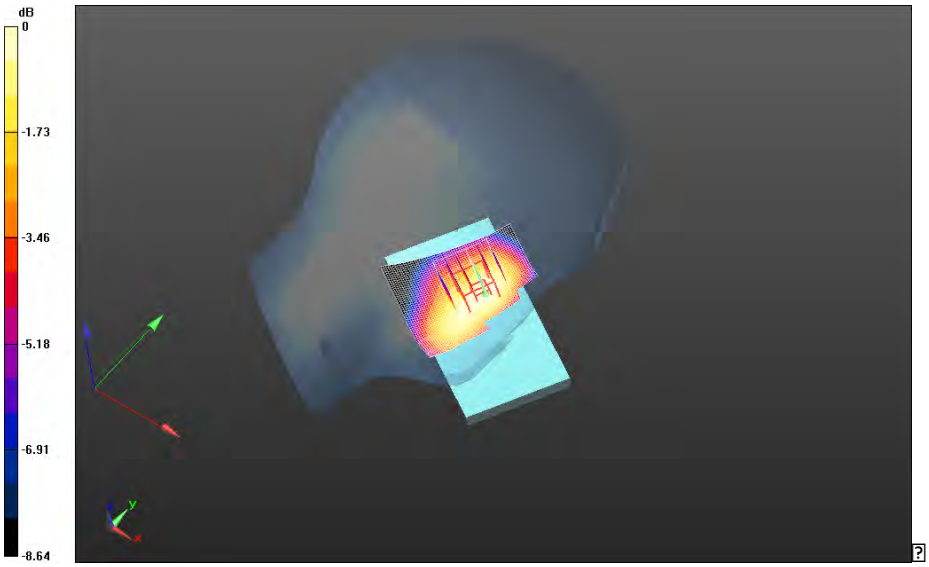
- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - LTE Band 5/Touch Position - LTE band 5_chan20450_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_20.7C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.112 V/m; **Power Drift = -0.115 dB**

**Fast SAR: SAR(1g) = 0.375 W/kg; SAR(10g) = 0.254 W/kg**
Maximum value of SAR (interpolated) = 0.396 W/kg

**Left-Hand-Side HSL - LTE Band 5/Touch Position - LTE band 5_chan20450_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_20.7C/Zoom Scan (26x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.112 V/m; **Power Drift = -0.115 dB**

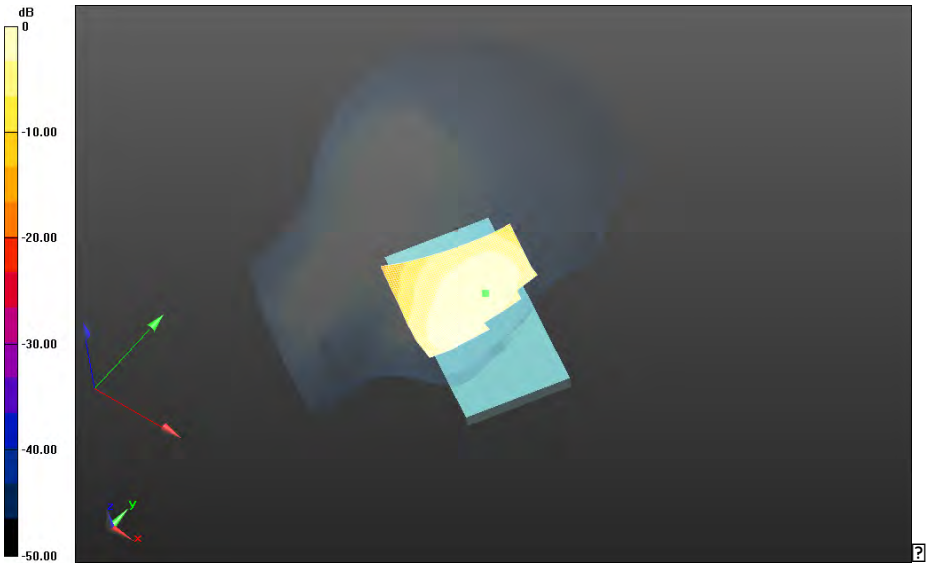
**Averaged SAR: SAR(1g) = 0.381 W/kg; SAR(10g) = 0.287 W/kg**
Maximum value of SAR (interpolated) = 0.464 W/kg




0 dB = 0.395 W/kg = -4.03 dBW/kg

**Left-Hand-Side HSL - LTE Band 5/Touch Position - LTE band 5_chan20525_10MHz_BW_RB1_Offset_Low_amb_temp_23.7C_liq_temp_20.7C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.880 V/m; **Power Drift = -0.022 dB**

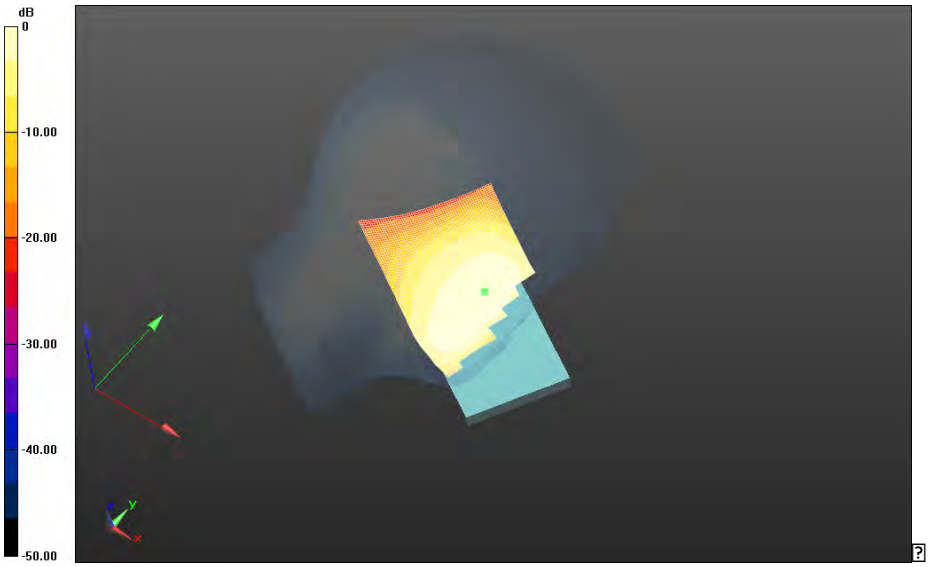
**Fast SAR: SAR(1g) = 0.258 W/kg; SAR(10g) = 0.174 W/kg**
Maximum value of SAR (interpolated) = 0.274 W/kg




0 dB = 0.274 W/kg = -5.62 dBW/kg

**Left-Hand-Side HSL - LTE Band 5/Touch Position - LTE band 5_chan20600_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_20.7C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.643 V/m; **Power Drift = 0.031 dB**

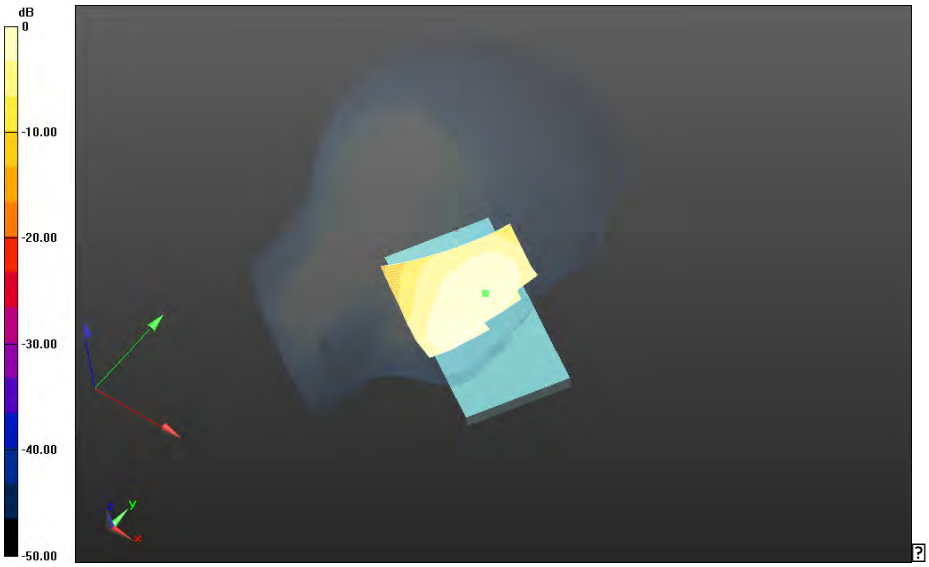
**Fast SAR: SAR(1g) = 0.366 W/kg; SAR(10g) = 0.246 W/kg**
Maximum value of SAR (interpolated) = 0.393 W/kg




0 dB = 0.393 W/kg = -4.06 dBW/kg

**Left-Hand-Side HSL - LTE Band 5/Touch Position - LTE band 5_chan20525_10MHz_BW_RB25_Offset_Low_amb_temp_23.7C_liq_temp_20.7C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.780 V/m; **Power Drift = 0.081 dB**

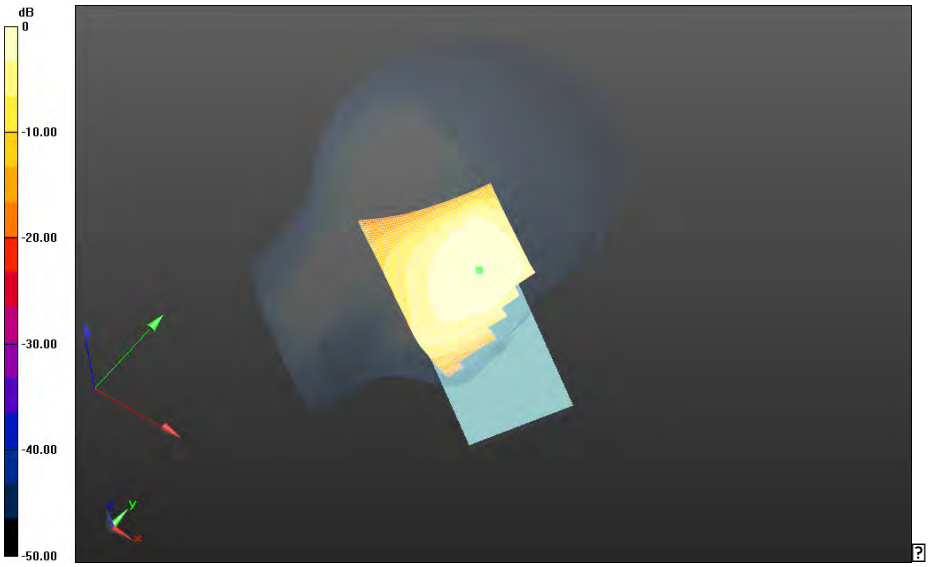
**Fast SAR: SAR(1g) = 0.260 W/kg; SAR(10g) = 0.176 W/kg**
Maximum value of SAR (interpolated) = 0.276 W/kg




0 dB = 0.276 W/kg = -5.59 dBW/kg

**Left-Hand-Side HSL - LTE Band 5/Tilt Position - LTE band 5_chan20600_10MHz_BW_RB1_Offset_High_amb_temp_23.8C_liq_temp_20.7C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.984 V/m; **Power Drift = 0.014 dB**

**Fast SAR: SAR(1g) = 0.190 W/kg; SAR(10g) = 0.132 W/kg**
Maximum value of SAR (interpolated) = 0.200 W/kg




0 dB = 0.200 W/kg = -6.99 dBW/kg

# GSM 850

Date: 2/24/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Right-Hand-Side HSL - DTM 850

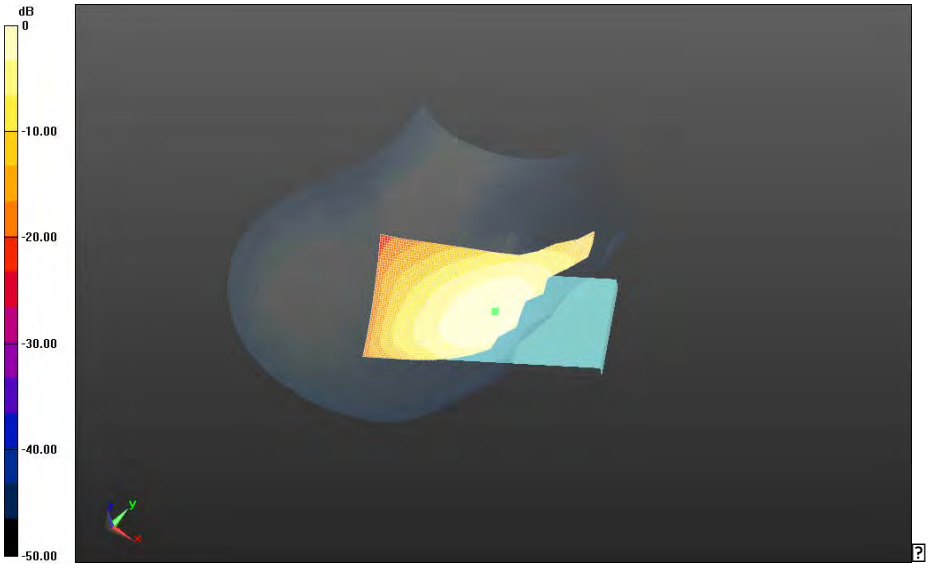
Communication System: DTM 850 (3 slots) (0); Communication System Band: DTM 850 (3 slots); Frequency: 836.8 MHz
Medium Parameters used: f=836.8 MHz; $\sigma$ = 0.893 S/m; $\varepsilon_r$ = 41.677; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - DTM 850/Touch Position - DTM 850_3-Slot_chan190_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.599 V/m; **Power Drift = -0.113 dB**

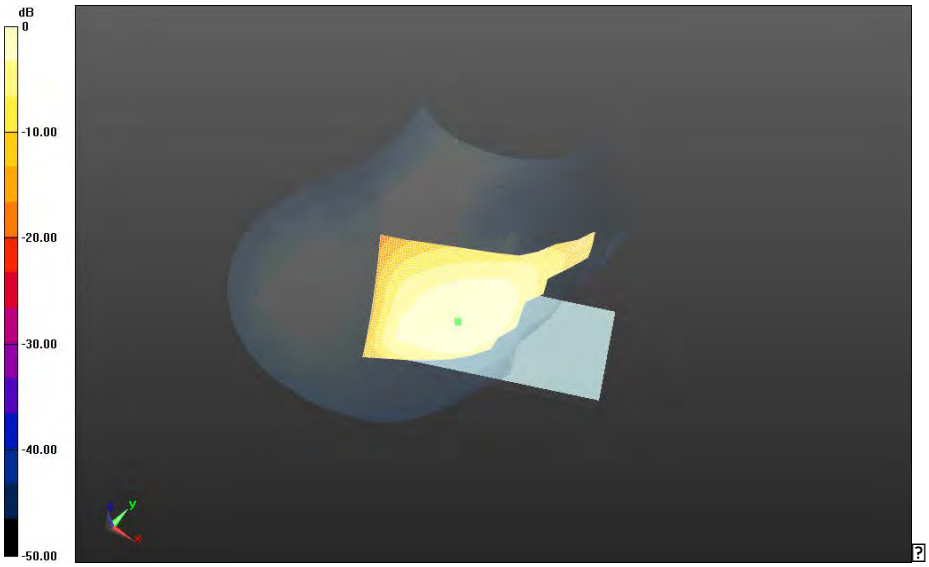
**Fast SAR: SAR(1g) = 0.544 W/kg; SAR(10g) = 0.372 W/kg**
Maximum value of SAR (interpolated) = 0.573 W/kg




0 dB = 0.573 W/kg = -2.42 dBW/kg

**Right-Hand-Side HSL - DTM 850/Tilt Position - DTM850_3-Slot_chan190_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.215 V/m; **Power Drift = 0.00259 dB**

**Fast SAR: SAR(1g) = 0.396 W/kg; SAR(10g) = 0.275 W/kg**
Maximum value of SAR (interpolated) = 0.415 W/kg




0 dB = 0.415 W/kg = -3.82 dBW/kg

Date: 2/24/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Left-Hand-Side HSL - DTM 850

Communication System: DTM 850 (3 slots) (0); Communication System Band: DTM 850 (3 slots); Frequency: 824.2 MHz
Medium Parameters used: f=825 MHz; $\sigma$ = 0.880 S/m; $\varepsilon_r$ = 41.830; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

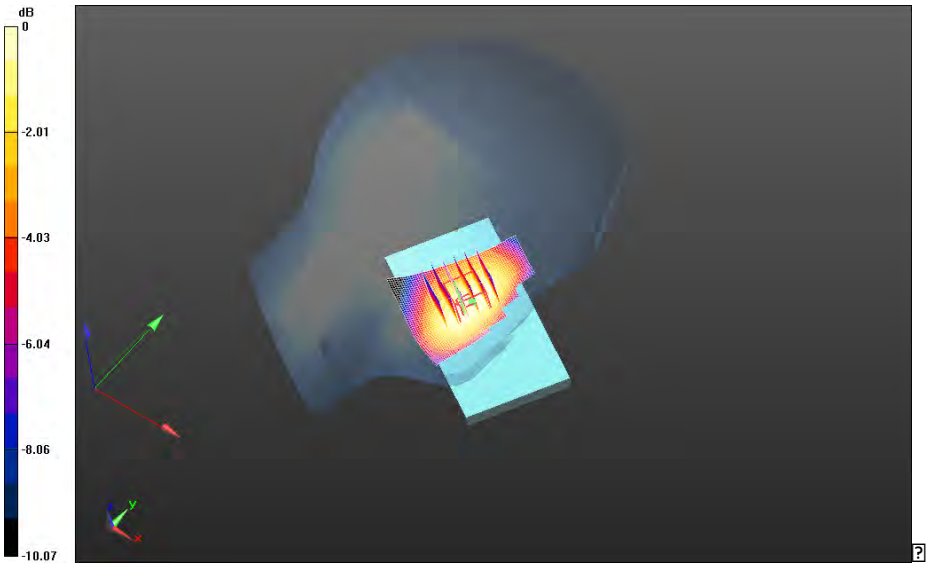
- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - DTM 850/Touch Position - DTM 850_3-Slot_chan128_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.912 V/m; **Power Drift = -0.054 dB**

**Fast SAR: SAR(1g) = 0.640 W/kg; SAR(10g) = 0.436 W/kg**
Maximum value of SAR (interpolated) = 0.666 W/kg

**Left-Hand-Side HSL - DTM 850/Touch Position - DTM 850_3-Slot_chan128_amb_temp_23.7C_liq_temp_21.6C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.912 V/m; **Power Drift = -0.054 dB**

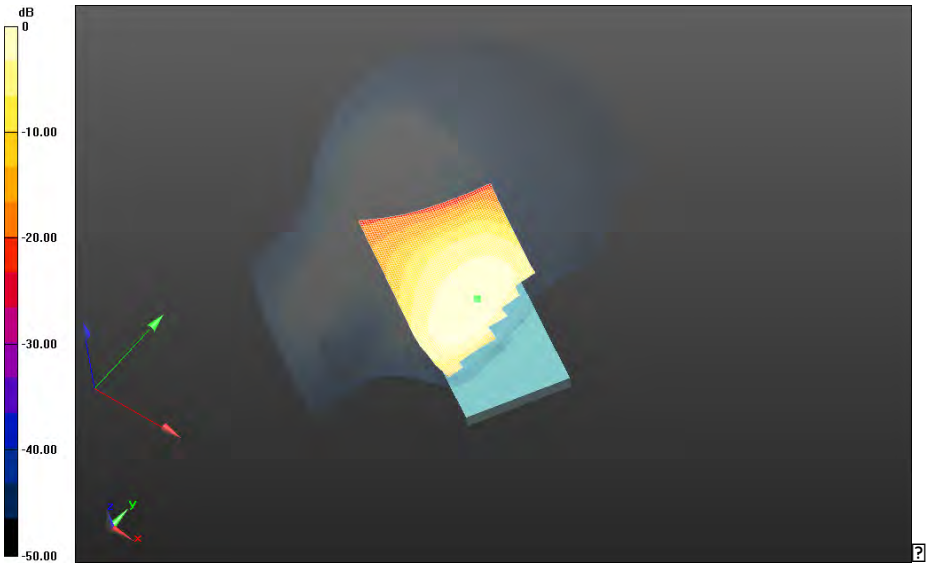
**Averaged SAR: SAR(1g) = 0.651 W/kg; SAR(10g) = 0.484 W/kg**
Maximum value of SAR (interpolated) = 0.825 W/kg




0 dB = 0.661 W/kg = -1.80 dBW/kg

**Left-Hand-Side HSL - DTM 850/Touch Position - DTM 850_3-Slot_chan190_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.681 V/m; **Power Drift = -0.134 dB**

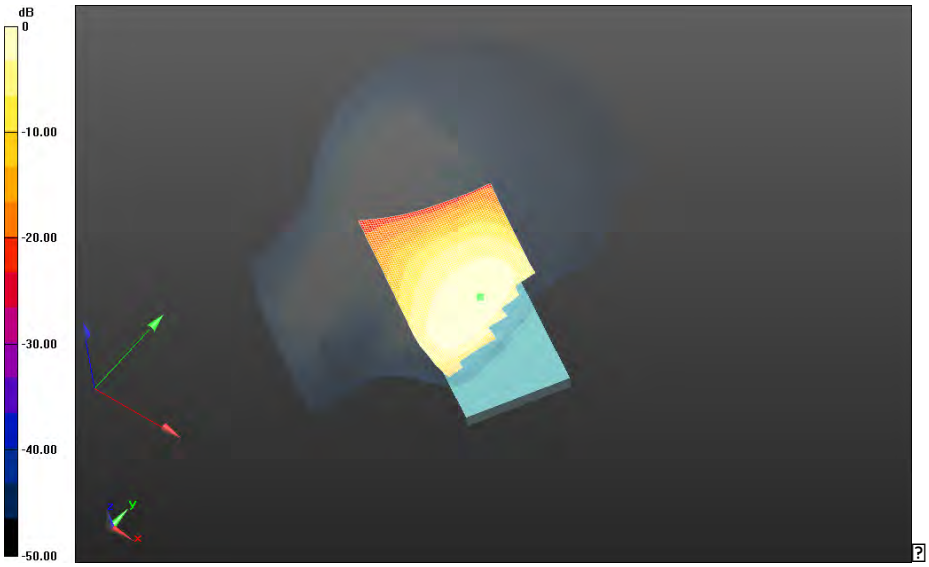
**Fast SAR: SAR(1g) = 0.590 W/kg; SAR(10g) = 0.402 W/kg**
Maximum value of SAR (interpolated) = 0.632 W/kg




0 dB = 0.632 W/kg = -1.99 dBW/kg

**Left-Hand-Side HSL - DTM 850/Touch Position - DTM 850_3-Slot_chan251_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.862 V/m; **Power Drift = -0.210 dB**

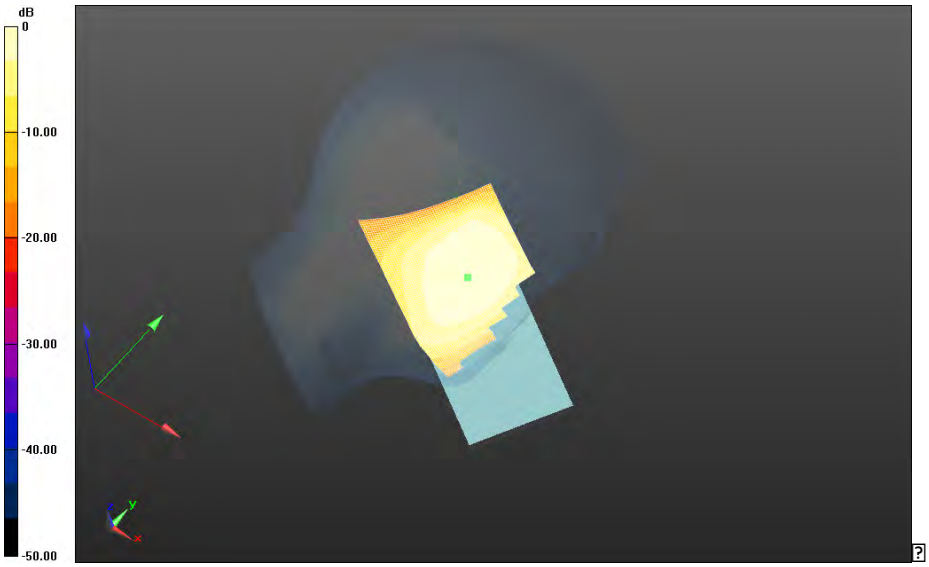
**Fast SAR: SAR(1g) = 0.563 W/kg; SAR(10g) = 0.386 W/kg**
Maximum value of SAR (interpolated) = 0.600 W/kg




0 dB = 0.600 W/kg = -2.22 dBW/kg

**Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850_3-Slot_chan190_amb_temp_23.7C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.222 V/m; **Power Drift = 0.012 dB**

**Fast SAR: SAR(1g) = 0.373 W/kg; SAR(10g) = 0.258 W/kg**
Maximum value of SAR (interpolated) = 0.393 W/kg




0 dB = 0.393 W/kg = -4.06 dBW/kg

# UMTS Band V

Date: 2/23/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

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

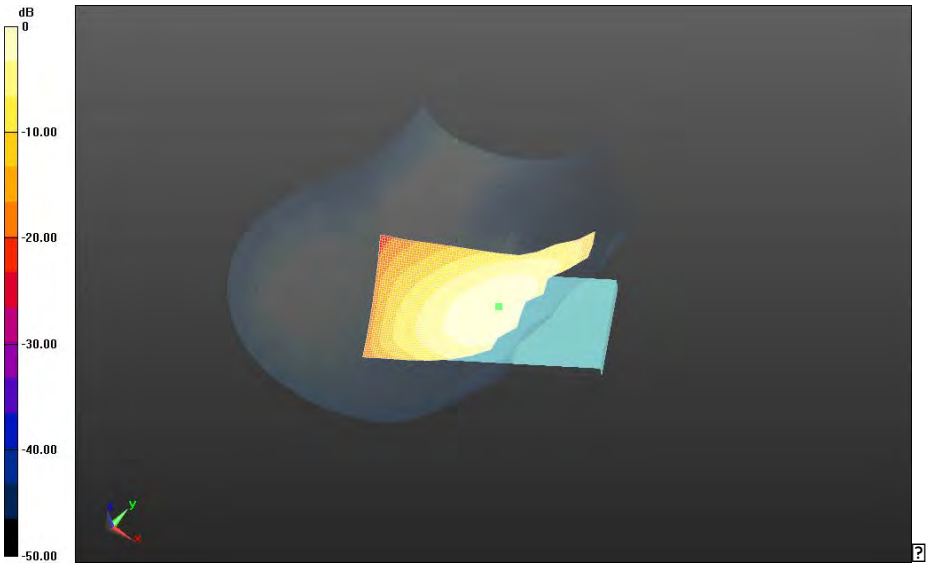
Communication System: WCDMA FDD V (0); Communication System Band: UMTS band V;
Frequency: 826.4 MHz
Medium Parameters used: f=826.4 MHz; $\sigma$ = 0.881 S/m; $\varepsilon_r$ = 41.812; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - UMTS V/Touch Position -UMTS V_chan4132_amb_temp_23.7C_liq_temp_21.3C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.736 V/m; **Power Drift = -0.024 dB**

**Fast SAR: SAR(1g) = 0.343 W/kg; SAR(10g) = 0.234 W/kg**
Maximum value of SAR (interpolated) = 0.359 W/kg




0 dB = 0.359 W/kg = -4.45 dBW/kg

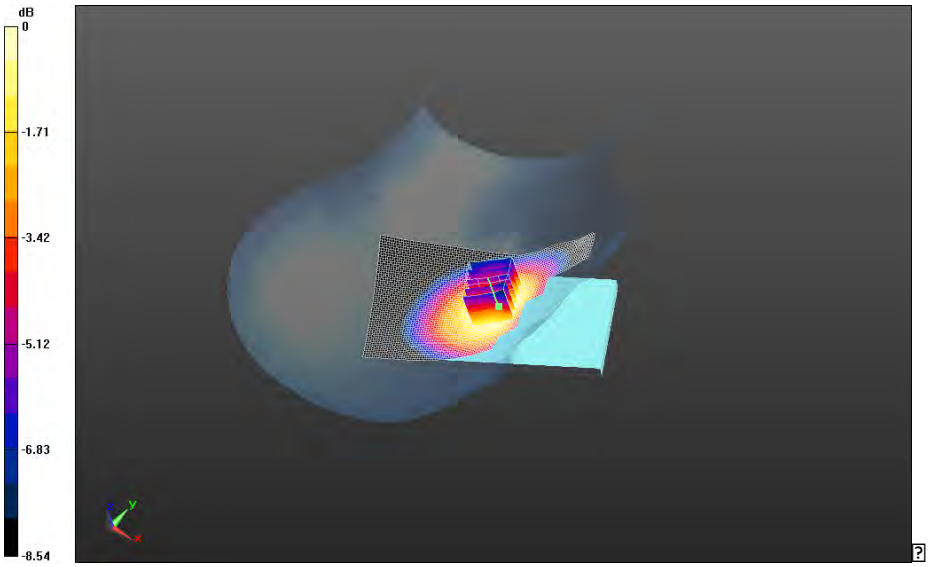
**Right-Hand-Side HSL - UMTS V/Touch Position -UMTS V_chan4182_amb_temp_24.0C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.316 V/m; **Power Drift = 0.049 dB**

**Fast SAR: SAR(1g) = 0.484 W/kg; SAR(10g) = 0.329 W/kg**
Maximum value of SAR (interpolated) = 0.512 W/kg

**Right-Hand-Side HSL - UMTS V/Touch Position -UMTS V_chan4182_amb_temp_24.0C_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 = 8.316 V/m; **Power Drift = 0.049 dB**

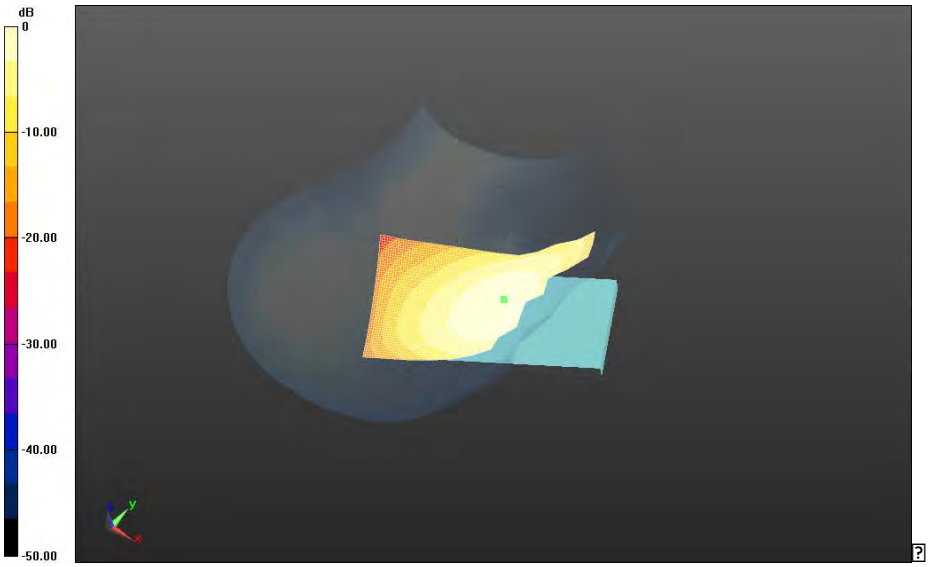
**Averaged SAR: SAR(1g) = 0.464 W/kg; SAR(10g) = 0.357 W/kg**
Maximum value of SAR (interpolated) = 0.557 W/kg




0 dB = 0.478 W/kg = -3.21 dBW/kg

**Right-Hand-Side HSL - UMTS V/Touch Position -UMTS V_chan4233_amb_temp_23.8C_liq_temp_21.4C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.315 V/m; **Power Drift = 0.024 dB**

**Fast SAR: SAR(1g) = 0.386 W/kg; SAR(10g) = 0.261 W/kg**
Maximum value of SAR (interpolated) = 0.408 W/kg



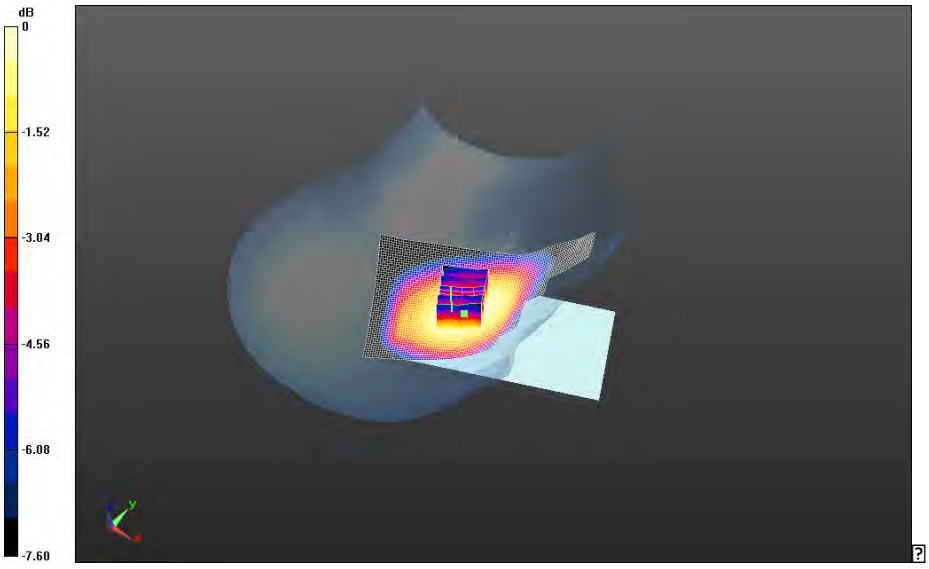

0 dB = 0.408 W/kg = -3.89 dBW/kg

**Right-Hand-Side HSL - UMTS V/Tilt Position -UMTS V_chan4182_amb_temp_23.9C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.671 V/m; **Power Drift = 0.00851 dB**

**Fast SAR: SAR(1g) = 0.248 W/kg; SAR(10g) = 0.173 W/kg**
Maximum value of SAR (interpolated) = 0.260 W/kg

**Right-Hand-Side HSL - UMTS V/Tilt Position -UMTS V_chan4182_amb_temp_23.9C_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 = 12.671 V/m; **Power Drift = 0.00851 dB**

**Averaged SAR: SAR(1g) = 0.253 W/kg; SAR(10g) = 0.198 W/kg**
Maximum value of SAR (interpolated) = 0.298 W/kg




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

Date: 2/23/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

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

Communication System: WCDMA FDD V (0); Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; $\sigma$ = 0.892 S/m; $\varepsilon_r$ = 41.684; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

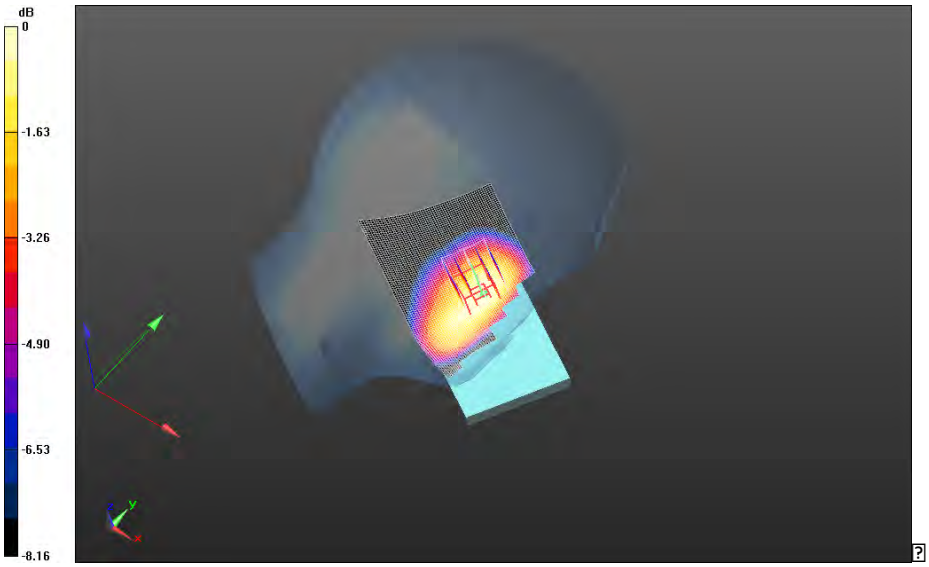
- Probe: ET3DV6 - SN1643; ConvF: (6.55,6.55,6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - UMTS V/Touch Position - UMTS V_chan4182_amb_temp_23.8C_liq_temp_21.4C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.791 V/m; **Power Drift = 0.123 dB**

**Fast SAR: SAR(1g) = 0.470 W/kg; SAR(10g) = 0.319 W/kg**
Maximum value of SAR (interpolated) = 0.503 W/kg

**Left-Hand-Side HSL - UMTS V/Touch Position - UMTS V_chan4182_amb_temp_23.8C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.791 V/m; **Power Drift = 0.123 dB**

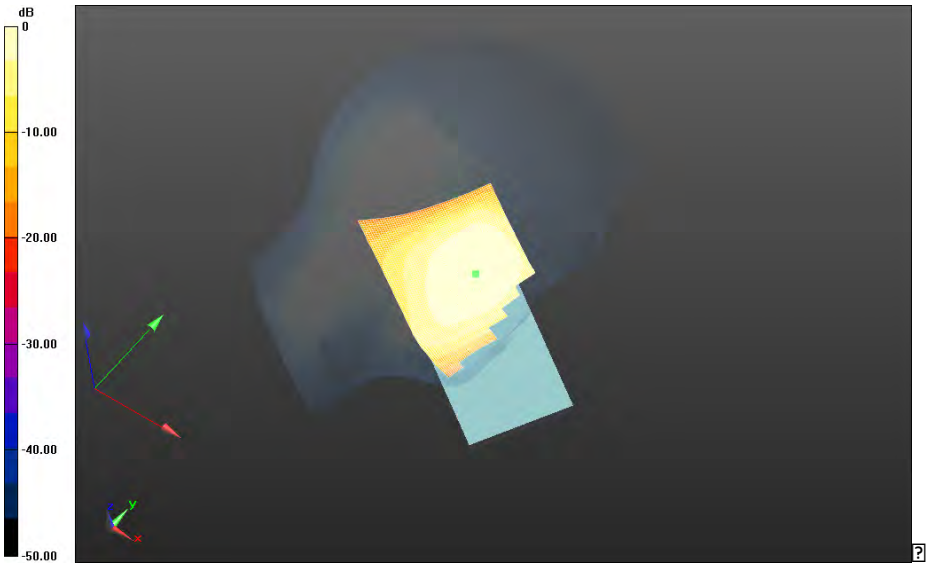
**Averaged SAR: SAR(1g) = 0.475 W/kg; SAR(10g) = 0.362 W/kg**
Maximum value of SAR (interpolated) = 0.573 W/kg




0 dB = 0.499 W/kg = -3.02 dBW/kg

**Left-Hand-Side HSL - UMTS V/Tilt Position - UMTS V_chan4182_amb_temp_23.8C_liq_temp_21.3C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.596 V/m; **Power Drift = -0.034 dB**

**Fast SAR: SAR(1g) = 0.254 W/kg; SAR(10g) = 0.176 W/kg**
Maximum value of SAR (interpolated) = 0.267 W/kg




0 dB = 0.267 W/kg = -5.73 dBW/kg

# LTE Band 4

Date: 2/17/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Right-Hand-Side HSL -LTE band 4

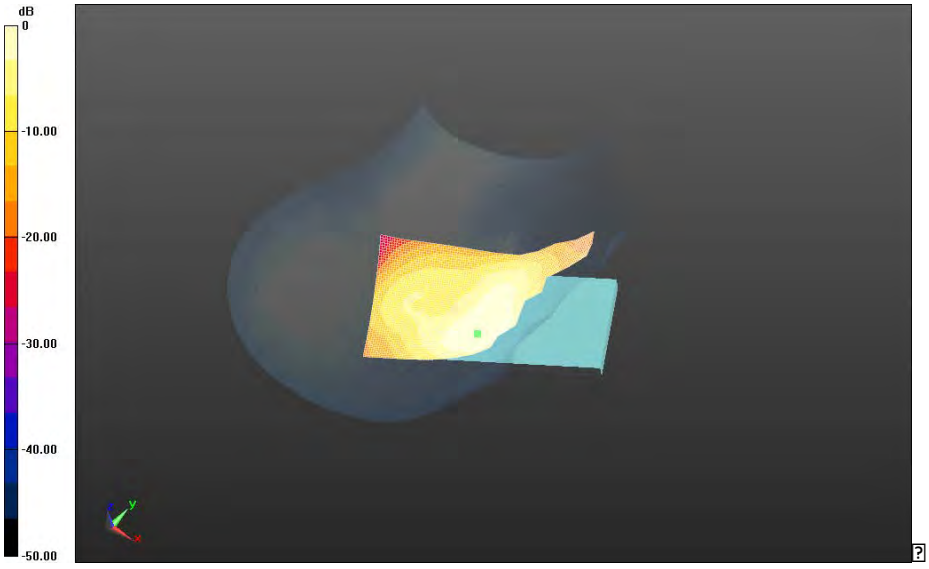
Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1745 MHz
Medium Parameters used: f=1745 MHz; $\sigma$ = 1.415 S/m; $\varepsilon_r$ = 39.189; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL -LTE band 4/Touch Position -LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_22.1C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.337 V/m; **Power Drift = -0.072 dB**

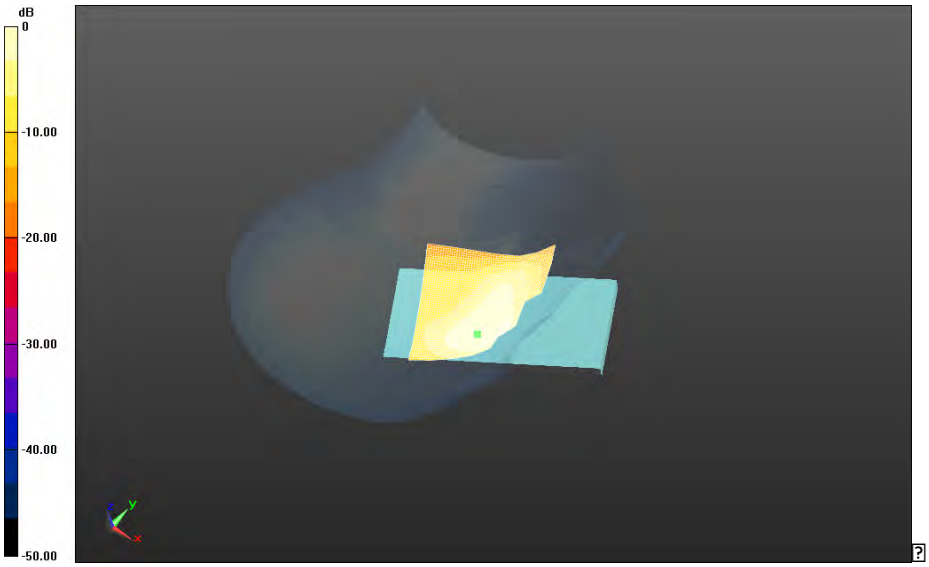
**Fast SAR: SAR(1g) = 0.519 W/kg; SAR(10g) = 0.318 W/kg**
Maximum value of SAR (interpolated) = 0.561 W/kg




0 dB = 0.561 W/kg = -2.51 dBW/kg

**Right-Hand-Side HSL -LTE band 4/Touch Position -LTE band 4_chan20300_20MHz_BW_RB50_Offset_High_amb_temp_24.0C_liq_temp_22.1C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.441 V/m; **Power Drift = -0.071 dB**

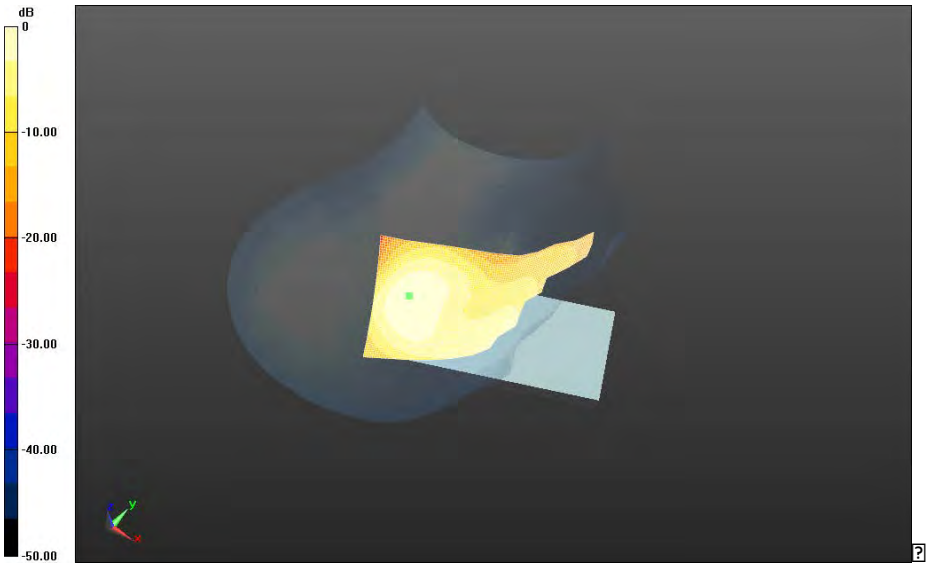
**Fast SAR: SAR(1g) = 0.361 W/kg; SAR(10g) = 0.221 W/kg**
Maximum value of SAR (interpolated) = 0.395 W/kg




0 dB = 0.395 W/kg = -4.03 dBW/kg

**Right-Hand-Side HSL -LTE band 4/Tilt Position -LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_24.1C_liq_temp_22.2C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.026 V/m; **Power Drift = 0.097 dB**

**Fast SAR: SAR(1g) = 0.338 W/kg; SAR(10g) = 0.203 W/kg**
Maximum value of SAR (interpolated) = 0.374 W/kg




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

Date: 2/17/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Left-Hand-Side HSL - LTE band 4

Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1720 MHz
Medium Parameters used: f=1720 MHz; $\sigma$ = 1.388 S/m; $\varepsilon_r$ = 39.291; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

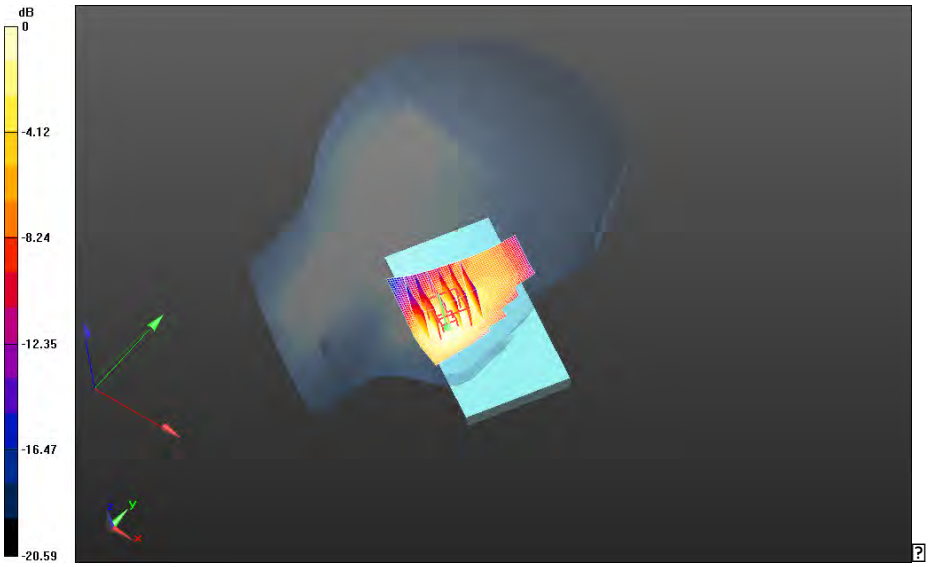
- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_24.0C_liq_temp_22.2C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.896 V/m; **Power Drift = 0.011 dB**

**Fast SAR: SAR(1g) = 0.933 W/kg; SAR(10g) = 0.549 W/kg**
Maximum value of SAR (interpolated) = 1.05 W/kg

**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20050_20MHz_BW_RB1_Offset_High_amb_temp_24.0C_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 = 9.896 V/m; **Power Drift = 0.011 dB**

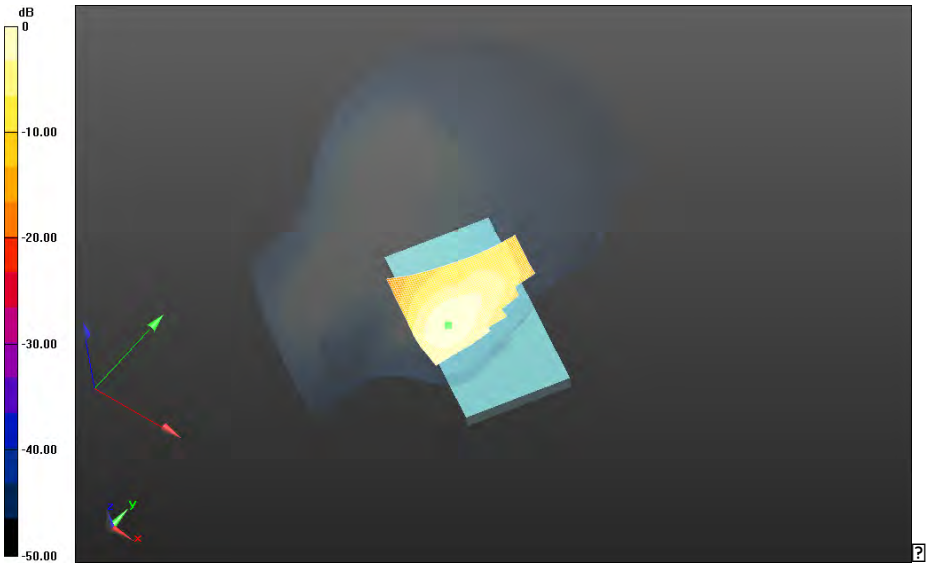
**Averaged SAR: SAR(1g) = 0.921 W/kg; SAR(10g) = 0.579 W/kg**
Maximum value of SAR (interpolated) = 1.33 W/kg




0 dB = 0.994 W/kg = -0.03 dBW/kg

**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20175_20MHz_BW_RB1_Offset_High_amb_temp_24.2C_liq_temp_22.2C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.302 V/m; **Power Drift = -0.069 dB**

**Fast SAR: SAR(1g) = 0.698 W/kg; SAR(10g) = 0.410 W/kg**
Maximum value of SAR (interpolated) = 0.780 W/kg



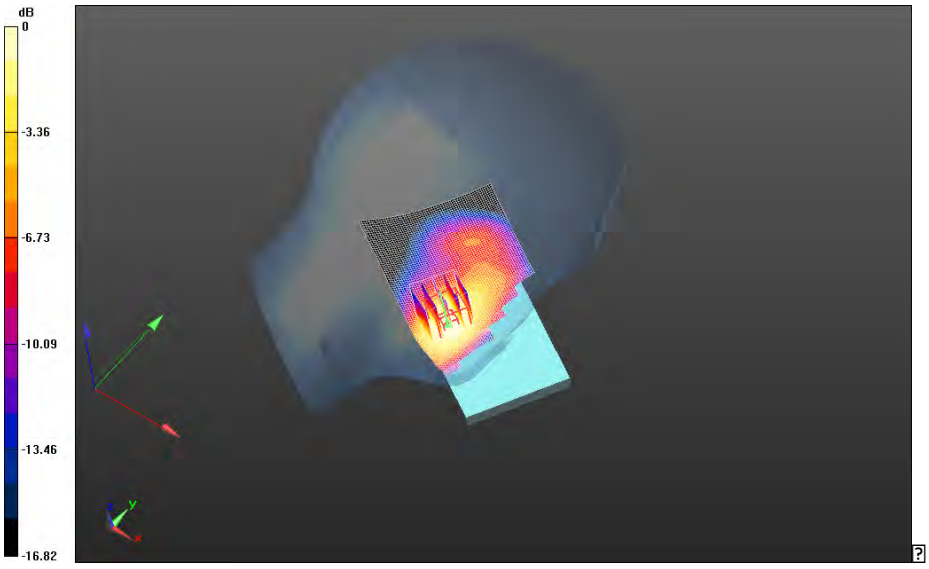

0 dB = 0.780 W/kg = -1.08 dBW/kg

**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_24.4C_liq_temp_22.2C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.810 V/m; **Power Drift = 0.161 dB**

**Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.605 W/kg**
Maximum value of SAR (interpolated) = 1.15 W/kg

**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_24.4C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.810 V/m; **Power Drift = 0.161 dB**

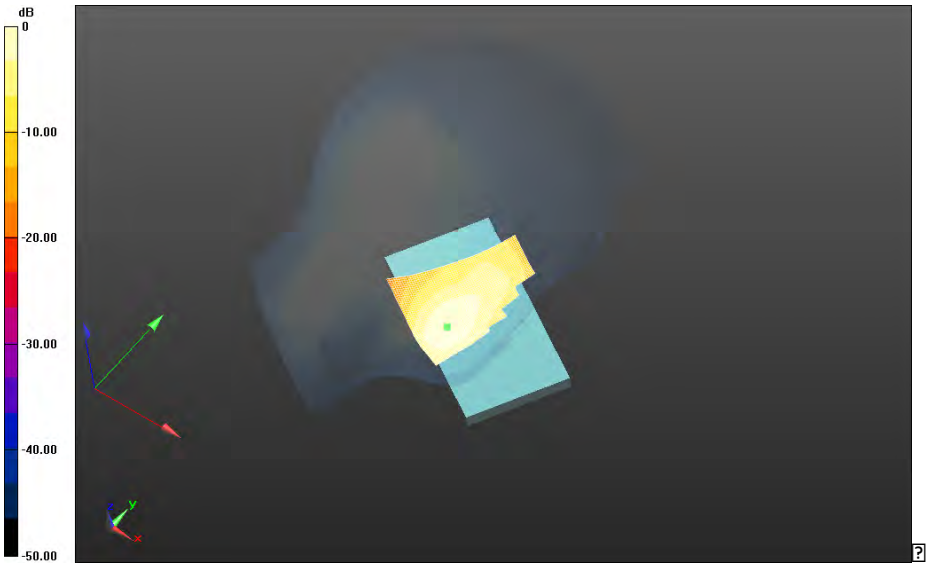
**Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.636 W/kg**
Maximum value of SAR (interpolated) = 1.47 W/kg




0 dB = 1.11 W/kg = 0.45 dBW/kg

**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20050_20MHz_BW_RB50_Offset_High_amb_temp_24.0C_liq_temp_22.1C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.452 V/m; **Power Drift = -0.025 dB**

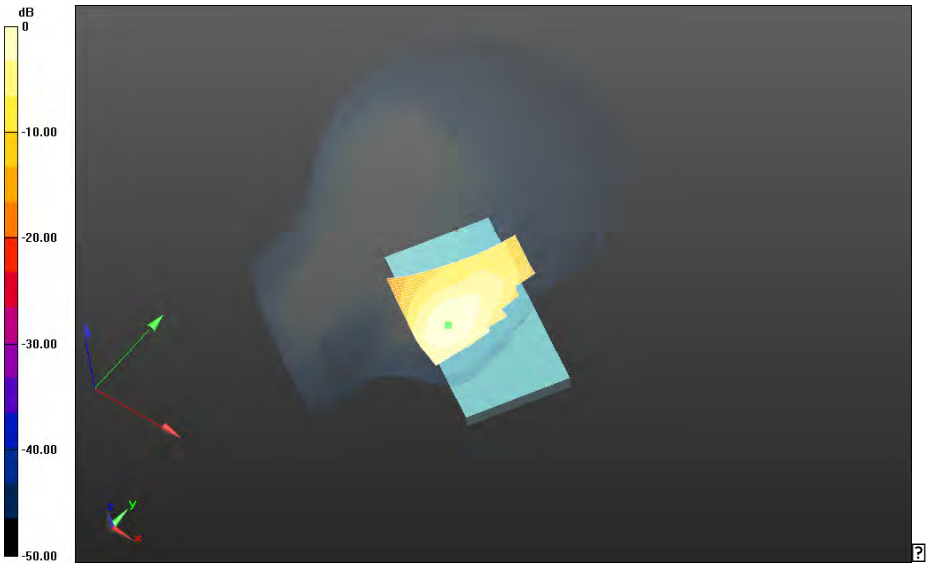
**Fast SAR: SAR(1g) = 0.715 W/kg; SAR(10g) = 0.421 W/kg**
Maximum value of SAR (interpolated) = 0.803 W/kg




0 dB = 0.803 W/kg = -0.95 dBW/kg

**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20175_20MHz_BW_RB50_Offset_High_amb_temp_24.0C_liq_temp_22.1C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.305 V/m; **Power Drift = -0.080 dB**

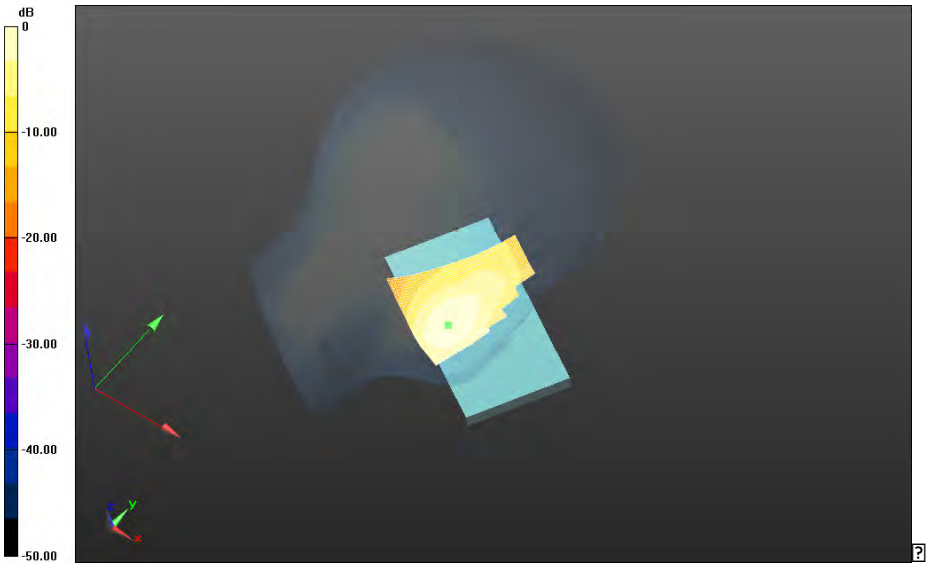
**Fast SAR: SAR(1g) = 0.544 W/kg; SAR(10g) = 0.320 W/kg**
Maximum value of SAR (interpolated) = 0.609 W/kg




0 dB = 0.609 W/kg = -2.15 dBW/kg

**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20300_20MHz_BW_RB50_Offset_High_amb_temp_24.0C_liq_temp_22.1C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.316 V/m; **Power Drift = 0.0055 dB**

**Fast SAR: SAR(1g) = 0.706 W/kg; SAR(10g) = 0.414 W/kg**
Maximum value of SAR (interpolated) = 0.790 W/kg




0 dB = 0.790 W/kg = -1.02 dBW/kg

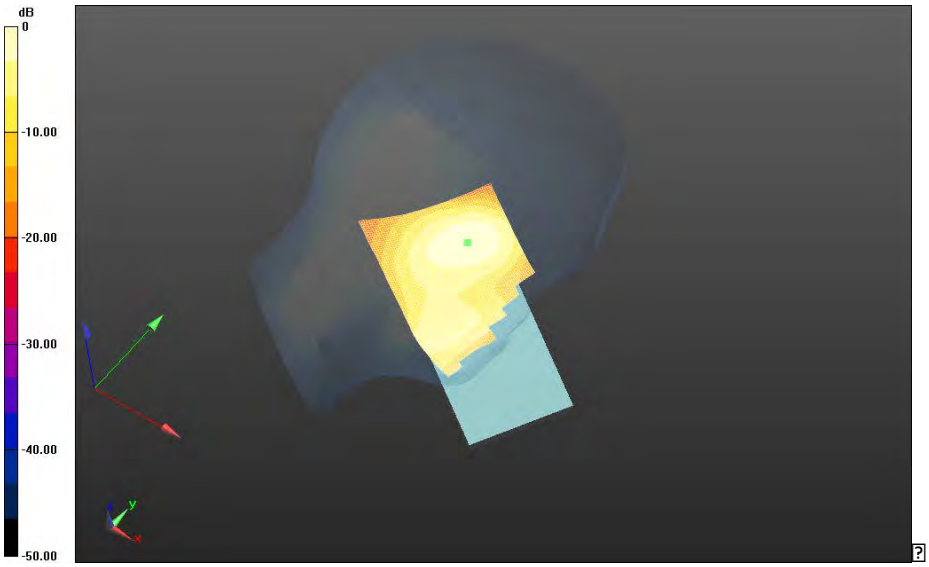
**Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band 4_chan20300_20MHz_BW_RB100_Offset_Low_amb_temp_24.3C_liq_temp_22.1C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.250 V/m; **Power Drift = -0.041 dB**

**Fast SAR: SAR(1g) = 0.686 W/kg; SAR(10g) = 0.402 W/kg**
Maximum value of SAR (interpolated) = 0.768 W/kg


0 dB = 0.768 W/kg = -1.15 dBW/kg

**Left-Hand-Side HSL - LTE band 4/Tilt Position - LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_24.1C_liq_temp_22.2C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.940 V/m; **Power Drift = 0.185 dB**

**Fast SAR: SAR(1g) = 0.466 W/kg; SAR(10g) = 0.270 W/kg**
Maximum value of SAR (interpolated) = 0.514 W/kg



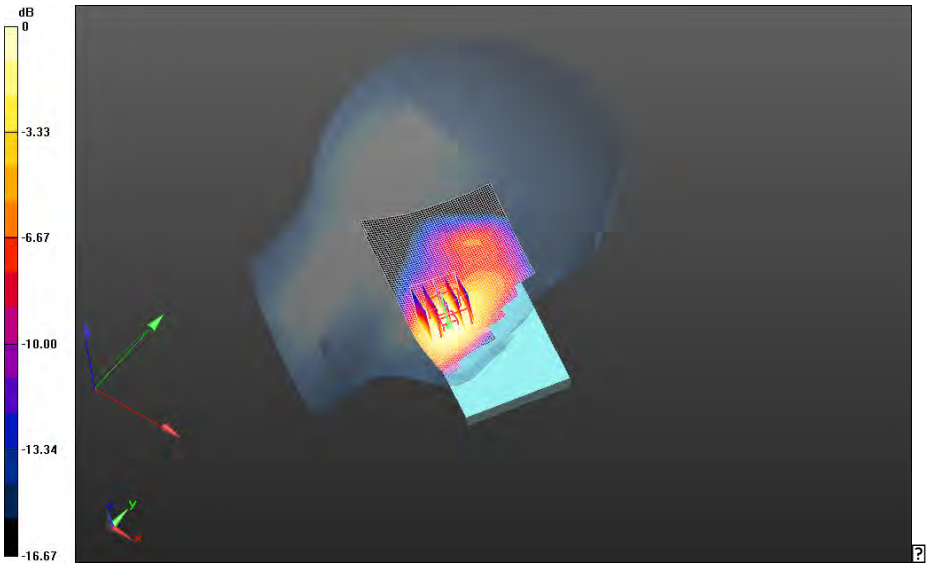

0 dB = 0.514 W/kg = -2.89 dBW/kg

**Left-Hand-Side HSL - LTE band 4/2nd Scan Touch Position -LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_24.0C_liq_temp_22.1C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.166 V/m; **Power Drift = 0.059 dB**

**Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.603 W/kg**
Maximum value of SAR (interpolated) = 1.15 W/kg

**Left-Hand-Side HSL - LTE band 4/2nd Scan Touch Position -LTE band 4_chan20300_20MHz_BW_RB1_Offset_High_amb_temp_24.0C_liq_temp_22.1C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.166 V/m; **Power Drift = 0.059 dB**

**Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.640 W/kg**
Maximum value of SAR (interpolated) = 1.49 W/kg




0 dB = 1.12 W/kg = 0.49 dBW/kg

# UMTS Band IV

Date: 2/12/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Right-Hand-Side HSL -UMTS band IV

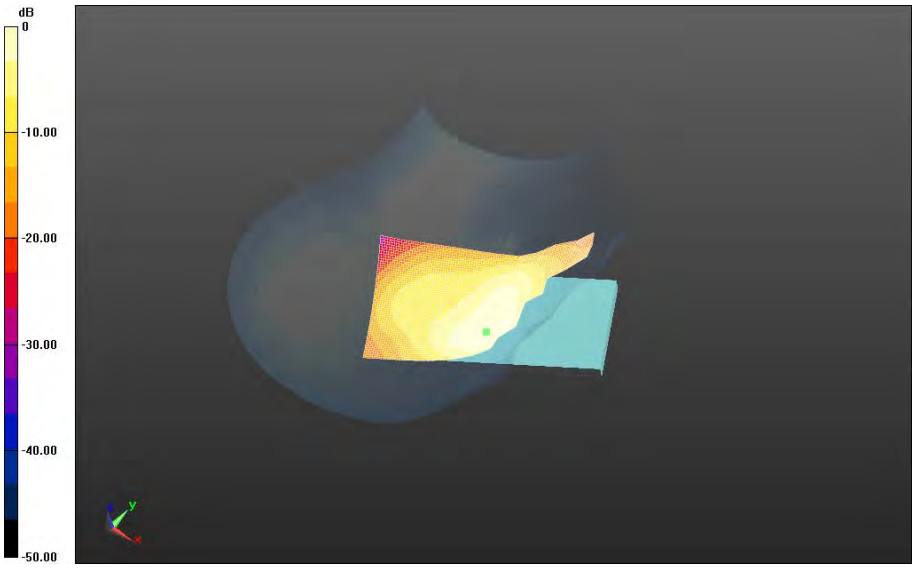
Communication System: WCDMA FDD IV (0); Communication System Band: UMTS band IV;
Frequency: 1732.6 MHz
Medium Parameters used: f=1732.6 MHz; $\sigma$ = 1.393 S/m; $\varepsilon_r$ = 40.687; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL -UMTS band IV/Touch Position -UMTS band IV_chan1413_amb_temp_23.8C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.144 V/m; **Power Drift = 0.0061 dB**

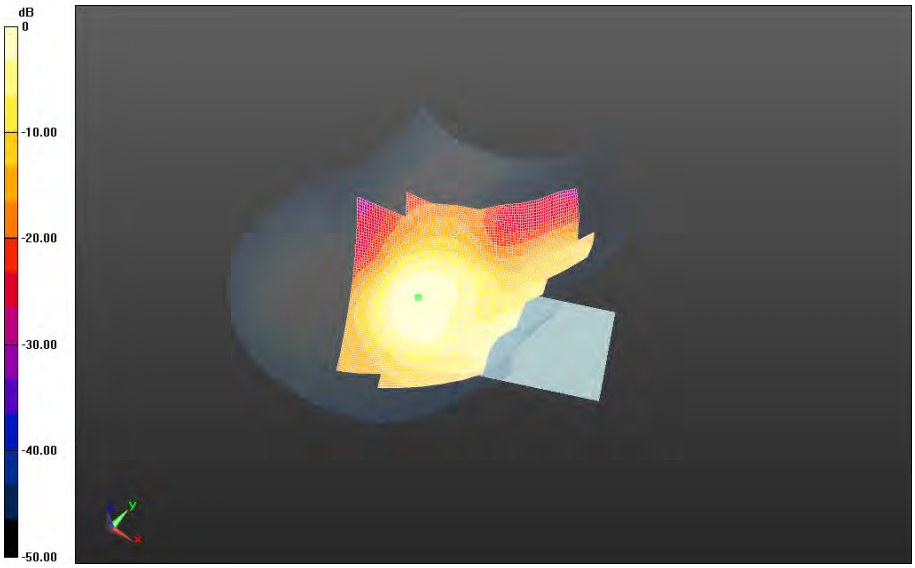
**Fast SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.257 W/kg**
Maximum value of SAR (interpolated) = 0.452 W/kg




0 dB = 0.452 W/kg = -3.45 dBW/kg

**Right-Hand-Side HSL -UMTS band IV/Tilt Position -UMTS band IV_chan1413_amb_temp_24.0C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.074 V/m; **Power Drift = 0.034 dB**

**Fast SAR: SAR(1g) = 0.266 W/kg; SAR(10g) = 0.164 W/kg**
Maximum value of SAR (interpolated) = 0.291 W/kg




0 dB = 0.291 W/kg = -5.36 dBW/kg

Date: 2/12/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Left-Hand-Side HSL - UMTS band IV

Communication System: WCDMA FDD IV (0); Communication System Band: UMTS band IV; Frequency: 1712.4 MHz
Medium Parameters used: f=1712.4 MHz; $\sigma$ = 1.371 S/m; $\varepsilon_r$ = 40.750; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

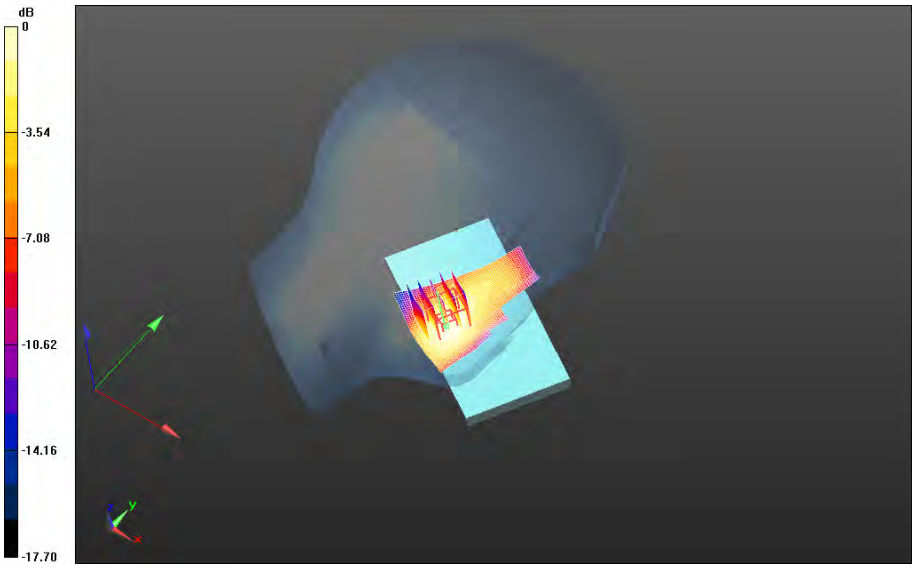
- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - UMTS band IV/Touch Position -UMTS band IV_chan1312_amb_temp_24.4C_liq_temp_21.5C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.214 V/m; **Power Drift = -0.112 dB**

**Fast SAR: SAR(1g) = 0.963 W/kg; SAR(10g) = 0.572 W/kg**
Maximum value of SAR (interpolated) = 1.08 W/kg

**Left-Hand-Side HSL - UMTS band IV/Touch Position -UMTS band IV_chan1312_amb_temp_24.4C_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 = 9.214 V/m; **Power Drift = -0.112 dB**

**Averaged SAR: SAR(1g) = 0.962 W/kg; SAR(10g) = 0.611 W/kg**
Maximum value of SAR (interpolated) = 1.38 W/kg



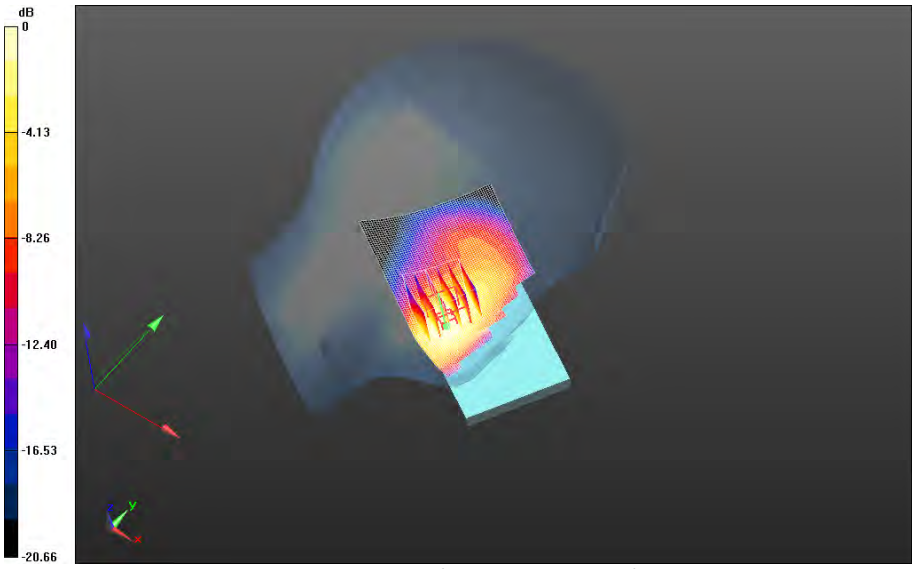

0 dB = 1.04 W/kg = 0.17 dBW/kg

**Left-Hand-Side HSL - UMTS band IV/Touch Position -UMTS band IV_chan1413_amb_temp_24.4C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.150 V/m; **Power Drift = -0.00215 dB**

**Fast SAR: SAR(1g) = 0.850 W/kg; SAR(10g) = 0.503 W/kg**
Maximum value of SAR (interpolated) = 0.944 W/kg

**Left-Hand-Side HSL - UMTS band IV/Touch Position -UMTS band IV_chan1413_amb_temp_24.4C_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 = 8.150 V/m; **Power Drift = -0.00215 dB**

**Averaged SAR: SAR(1g) = 0.851 W/kg; SAR(10g) = 0.534 W/kg**
Maximum value of SAR (interpolated) = 1.24 W/kg



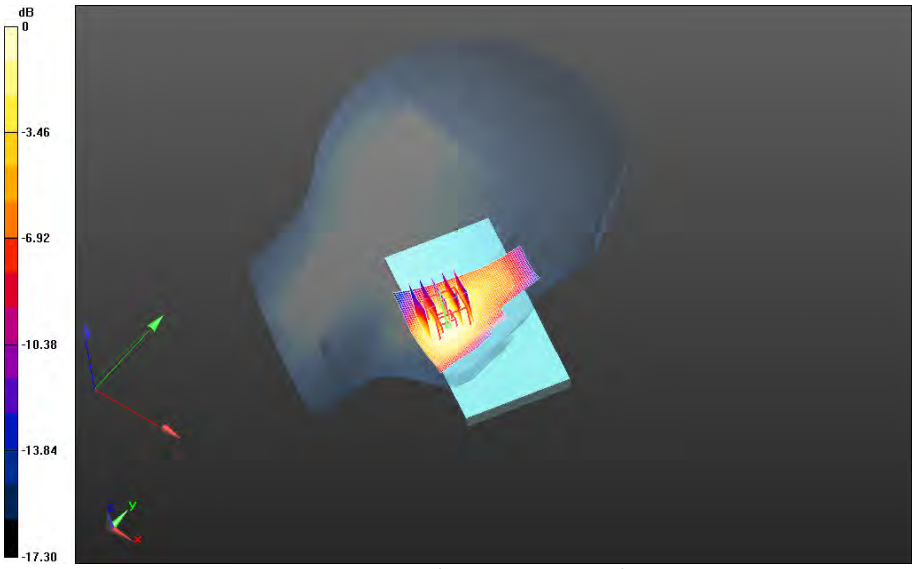

0 dB = 0.920 W/kg = -0.36 dBW/kg

**Left-Hand-Side HSL - UMTS band IV/Touch Position -UMTS band IV_chan1513_amb_temp_23.9C_liq_temp_21.4C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.690 V/m; **Power Drift = 0.026 dB**

**Fast SAR: SAR(1g) = 1.13 W/kg; SAR(10g) = 0.667 W/kg**
Maximum value of SAR (interpolated) = 1.26 W/kg

**Left-Hand-Side HSL - UMTS band IV/Touch Position -UMTS band IV_chan1513_amb_temp_23.9C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.690 V/m; **Power Drift = 0.026 dB**

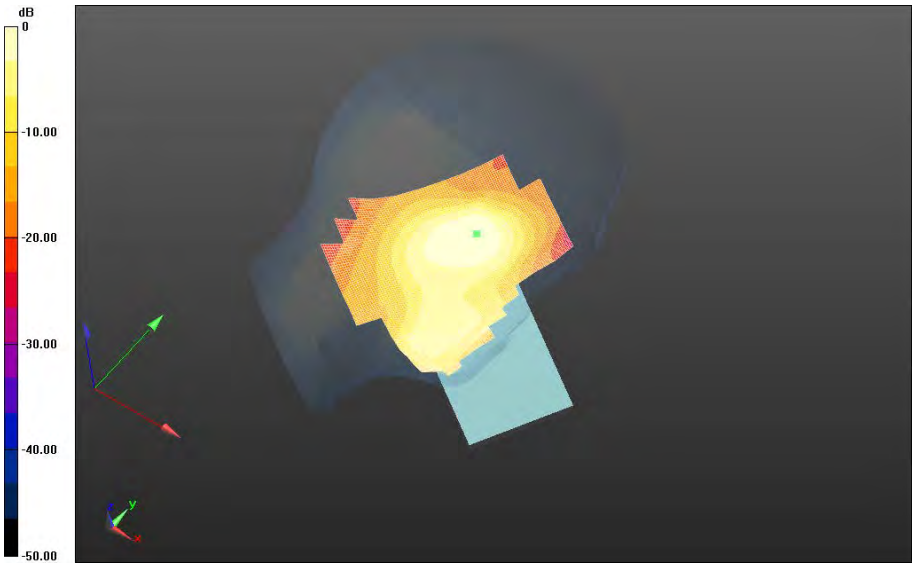
**Averaged SAR: SAR(1g) = 1.13 W/kg; SAR(10g) = 0.706 W/kg**
Maximum value of SAR (interpolated) = 1.66 W/kg




0 dB = 1.25 W/kg = 0.97 dBW/kg

**Left-Hand-Side HSL - UMTS band IV/Tilt Position - UMTS band IV_chan1413_amb_temp_23.9C_liq_temp_21.5C/Area Scan 2 (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.248 V/m; **Power Drift = -0.079 dB**

**Fast SAR: SAR(1g) = 0.324 W/kg; SAR(10g) = 0.193 W/kg**
Maximum value of SAR (interpolated) = 0.372 W/kg



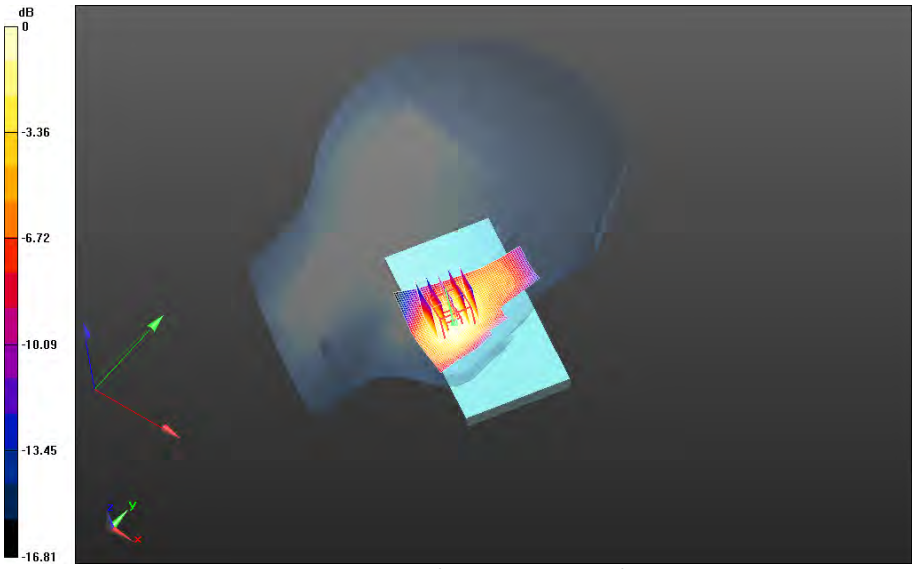

0 dB = 0.372 W/kg = -4.29 dBW/kg

**Left-Hand-Side HSL - UMTS band IV/Touch Position -2nd Scan-UMTS band IV_chan1513_amb_temp_24.3C_liq_temp_21.5C/Area Scan (121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.972 V/m; **Power Drift = -0.159 dB**

**Fast SAR: SAR(1g) = 1.13 W/kg; SAR(10g) = 0.668 W/kg**
Maximum value of SAR (interpolated) = 1.25 W/kg

**Left-Hand-Side HSL - UMTS band IV/Touch Position -2nd Scan-UMTS band IV_chan1513_amb_temp_24.3C_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 = 9.972 V/m; **Power Drift = -0.159 dB**

**Averaged SAR: SAR(1g) = 1.15 W/kg; SAR(10g) = 0.720 W/kg**
Maximum value of SAR (interpolated) = 1.68 W/kg




0 dB = 1.27 W/kg = 1.04 dBW/kg

# LTE Band 2

Date: 2/10/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Right-Hand-Side HSL -LTE band 2

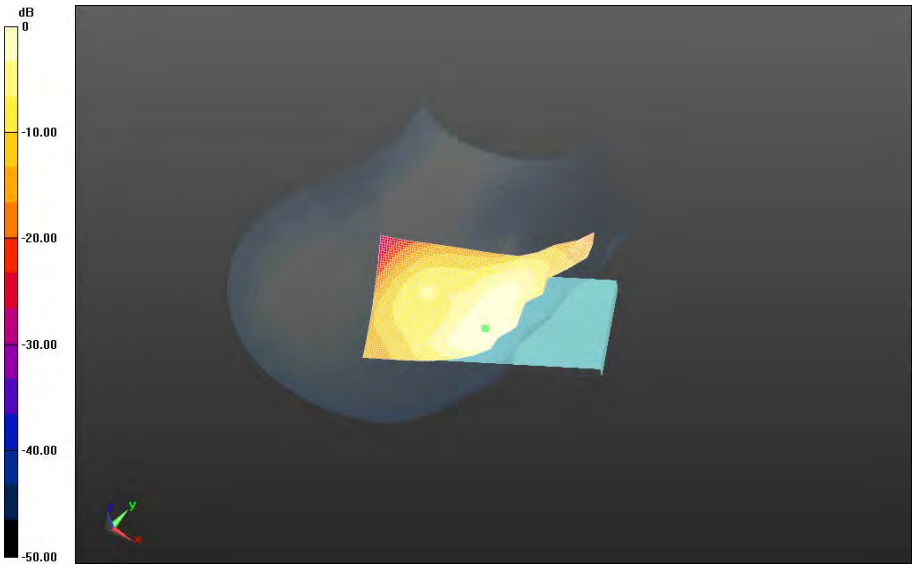
Communication System: LTE 2 (0); Communication System Band: LTE Band 2; Frequency: 1860 MHz
Medium Parameters used: f=1860 MHz; $\sigma$ = 1.370 S/m; $\varepsilon_r$ = 38.791; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL -LTE band 2/Touch Position -LTE band 2_chan18700_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.7C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.717 V/m; **Power Drift = 0.022 dB**

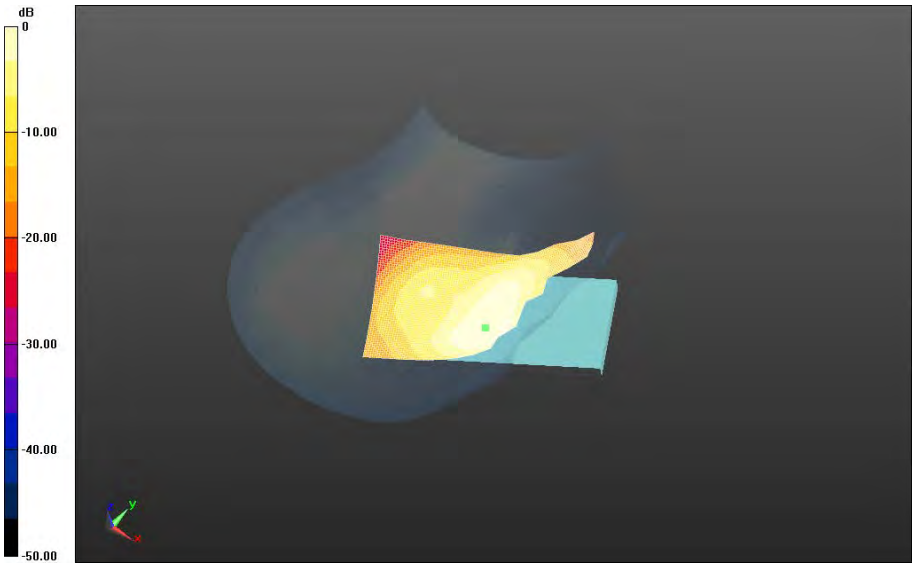
**Fast SAR: SAR(1g) = 0.479 W/kg; SAR(10g) = 0.289 W/kg**
Maximum value of SAR (interpolated) = 0.510 W/kg




0 dB = 0.510 W/kg = -2.92 dBW/kg

**Right-Hand-Side HSL -LTE band 2/Touch Position -LTE band 2_chan18700_20MHz_BW_RB50_Offset_Low_amb_temp_24.6C_liq_temp_21.8C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.051 V/m; **Power Drift = -0.101 dB**

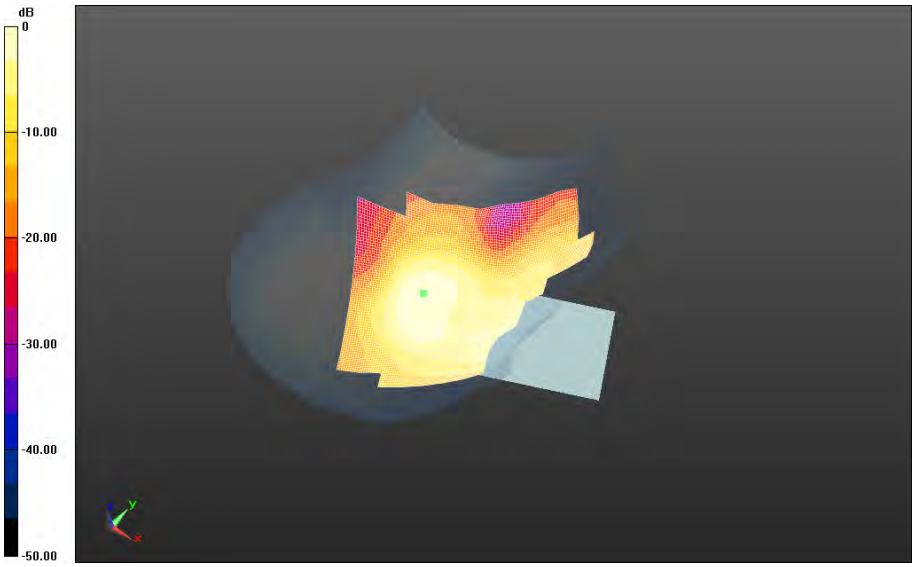
**Fast SAR: SAR(1g) = 0.401 W/kg; SAR(10g) = 0.241 W/kg**
Maximum value of SAR (interpolated) = 0.428 W/kg




0 dB = 0.428 W/kg = -3.69 dBW/kg

**Right-Hand-Side HSL -LTE band 2/Tilt Position -LTE band 2_chan18700_20MHz_BW_RB1_Offset_Mid_amb_temp_24.3C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.770 V/m; **Power Drift = -0.000325 dB**

**Fast SAR: SAR(1g) = 0.281 W/kg; SAR(10g) = 0.162 W/kg**
Maximum value of SAR (interpolated) = 0.321 W/kg




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

Date: 2/10/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Left-Hand-Side HSL - LTE band 2

Communication System: LTE 2 (0); Communication System Band: LTE Band 2; Frequency: 1860 MHz
Medium Parameters used: f=1860 MHz; $\sigma$ = 1.370 S/m; $\varepsilon_r$ = 38.791; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

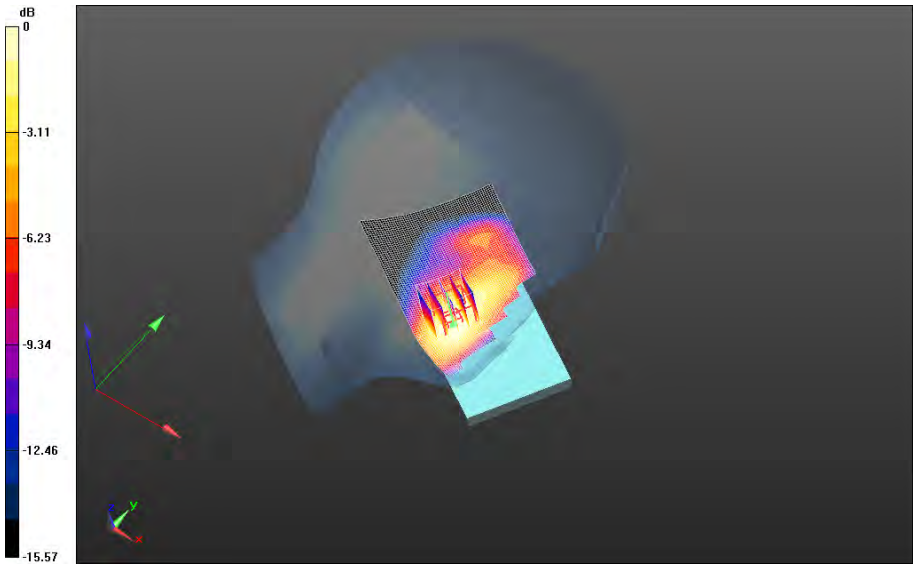
- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band 2_chan18700_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.754 V/m; **Power Drift = 0.00543 dB**

**Fast SAR: SAR(1g) = 0.728 W/kg; SAR(10g) = 0.422 W/kg**
Maximum value of SAR (interpolated) = 0.803 W/kg

**Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band 2_chan18700_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.754 V/m; **Power Drift = 0.00543 dB**

**Averaged SAR: SAR(1g) = 0.718 W/kg; SAR(10g) = 0.453 W/kg**
Maximum value of SAR (interpolated) = 1.02 W/kg



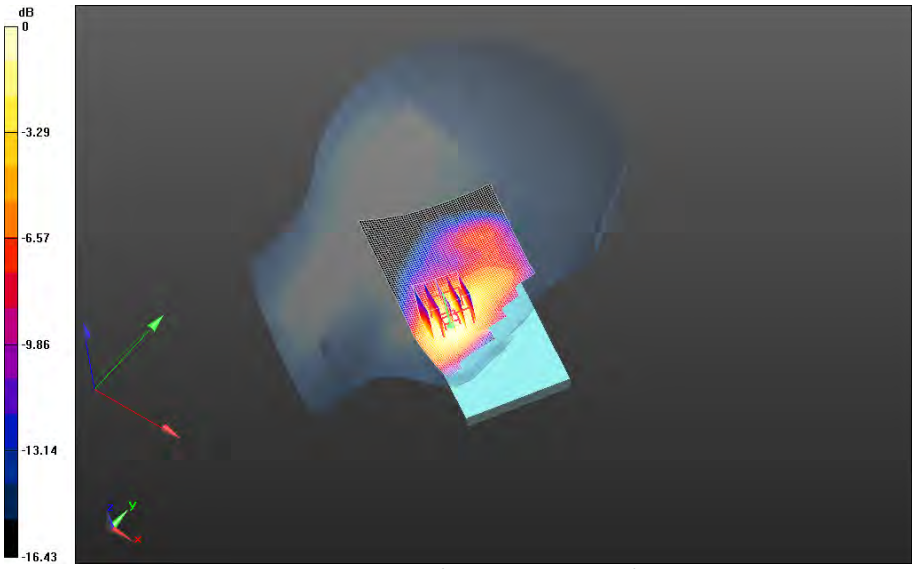

0 dB = 0.775 W/kg = -1.11 dBW/kg

**Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band 2_chan18900_20MHz_BW_RB1_Offset_Low_amb_temp_23.9C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.911 V/m; **Power Drift = 0.155 dB**

**Fast SAR: SAR(1g) = 0.879 W/kg; SAR(10g) = 0.507 W/kg**
Maximum value of SAR (interpolated) = 0.983 W/kg

**Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band 2_chan18900_20MHz_BW_RB1_Offset_Low_amb_temp_23.9C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.911 V/m; **Power Drift = 0.155 dB**

**Averaged SAR: SAR(1g) = 0.880 W/kg; SAR(10g) = 0.544 W/kg**
Maximum value of SAR (interpolated) = 1.29 W/kg



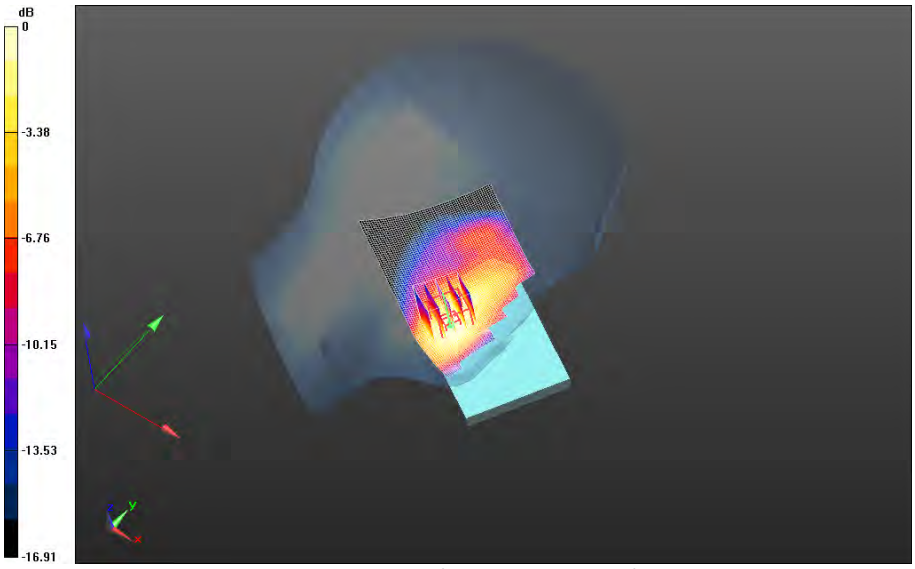

0 dB = 0.971 W/kg = -0.13 dBW/kg

**Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band 2_chan19100_20MHz_BW_RB1_Offset_Mid_amb_temp_23.8C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.100 V/m; **Power Drift = -0.039 dB**

**Fast SAR: SAR(1g) = 0.771 W/kg; SAR(10g) = 0.444 W/kg**
Maximum value of SAR (interpolated) = 0.862 W/kg

**Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band 2_chan19100_20MHz_BW_RB1_Offset_Mid_amb_temp_23.8C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.100 V/m; **Power Drift = -0.039 dB**

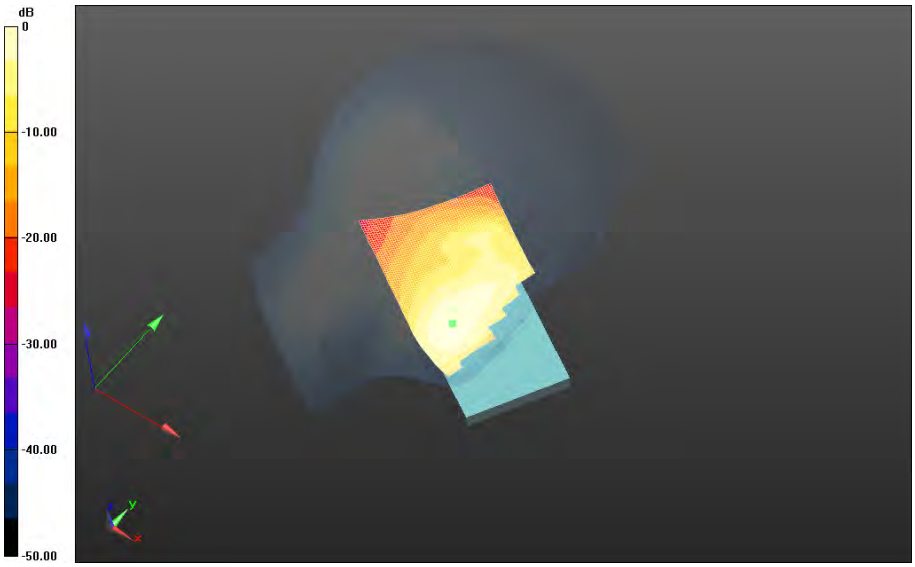
**Averaged SAR: SAR(1g) = 0.771 W/kg; SAR(10g) = 0.475 W/kg**
Maximum value of SAR (interpolated) = 1.15 W/kg




0 dB = 0.857 W/kg = -0.67 dBW/kg

**Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band 2_chan18700_20MHz_BW_RB50_Offset_Low_amb_temp_23.9C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.079 V/m; **Power Drift = 0.145 dB**

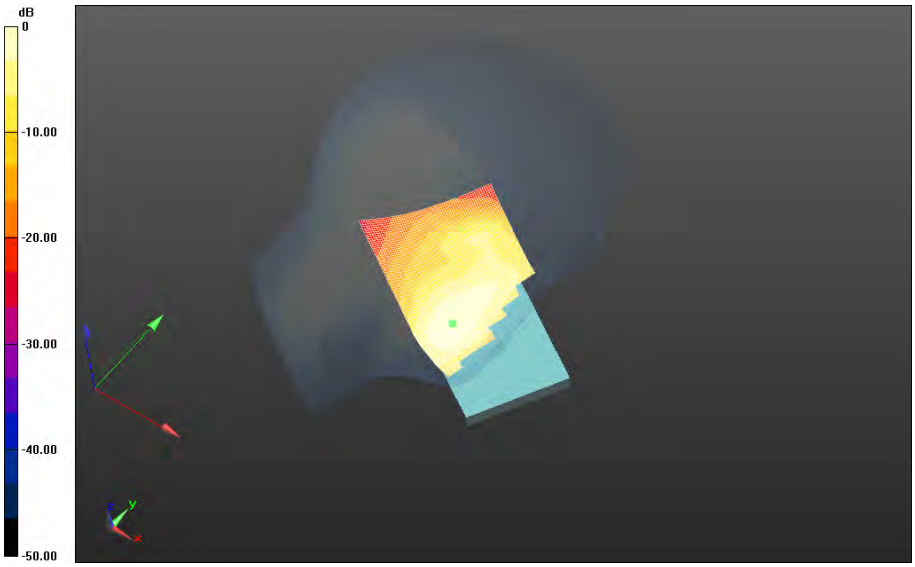
**Fast SAR: SAR(1g) = 0.602 W/kg; SAR(10g) = 0.349 W/kg**
Maximum value of SAR (interpolated) = 0.663 W/kg




0 dB = 0.663 W/kg = -1.78 dBW/kg

**Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band 2_chan18700_20MHz_BW_RB100_Offset_Low_amb_temp_23.8C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.036 V/m; **Power Drift = -0.027 dB**

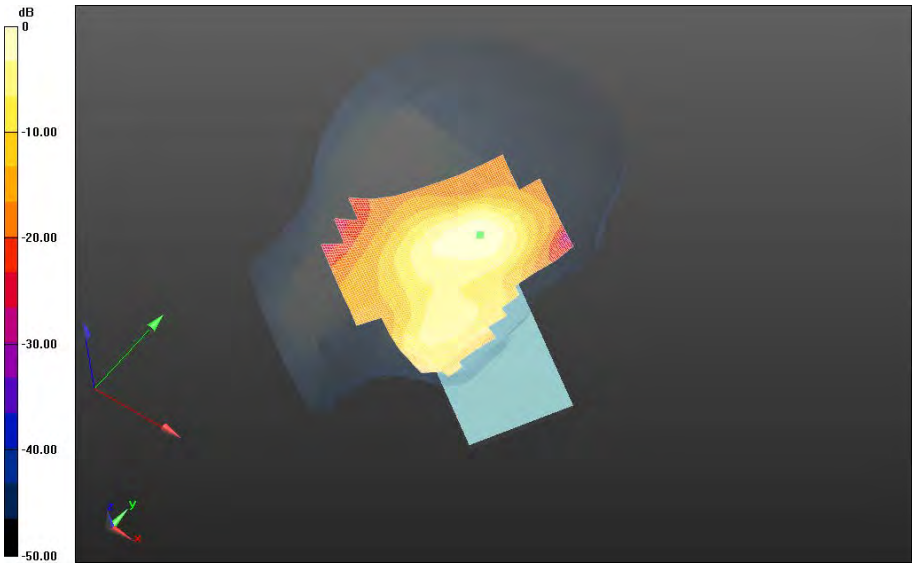
**Fast SAR: SAR(1g) = 0.577 W/kg; SAR(10g) = 0.336 W/kg**
Maximum value of SAR (interpolated) = 0.636 W/kg




0 dB = 0.636 W/kg = -1.97 dBW/kg

**Left-Hand-Side HSL - LTE band 2/Tilt Position - LTE band 2_chan18700_20MHz_BW_RB1_Offset_Mid_amb_temp_23.1C_liq_temp_22.2C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.157 V/m; **Power Drift = 0.111 dB**

**Fast SAR: SAR(1g) = 0.370 W/kg; SAR(10g) = 0.213 W/kg**
Maximum value of SAR (interpolated) = 0.464 W/kg



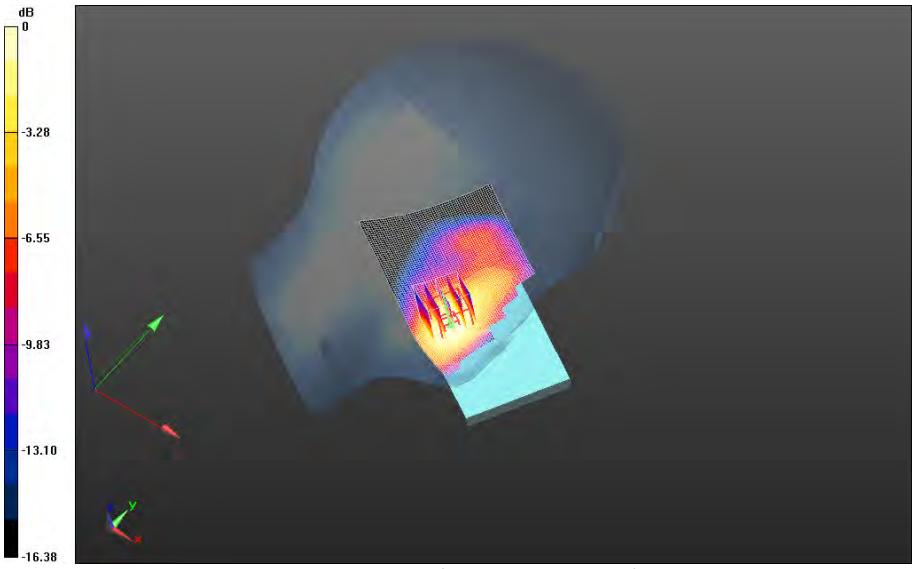

0 dB = 0.464 W/kg = -3.33 dBW/kg

**Left-Hand-Side HSL - LTE band 2/2nd Scan Touch Position -LTE band 2_chan18900_20MHz_BW_RB1_Offset_Low_amb_temp_23.9C_liq_temp_21.6C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.176 V/m; **Power Drift = 0.016 dB**

**Fast SAR: SAR(1g) = 0.863 W/kg; SAR(10g) = 0.499 W/kg**
Maximum value of SAR (interpolated) = 0.965 W/kg

**Left-Hand-Side HSL - LTE band 2/2nd Scan Touch Position -LTE band 2_chan18900_20MHz_BW_RB1_Offset_Low_amb_temp_23.9C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.176 V/m; **Power Drift = 0.016 dB**

**Averaged SAR: SAR(1g) = 0.870 W/kg; SAR(10g) = 0.541 W/kg**
Maximum value of SAR (interpolated) = 1.27 W/kg




0 dB = 0.960 W/kg = -0.18 dBW/kg

# GSM 1900

Date: 2/9/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Right-Hand-Side HSL - GSM_DTM 1900

Communication System: DTM 1900 (2slots) (0); Communication System Band: DTM 1900; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.391 S/m; $\varepsilon_r$ = 38.739; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

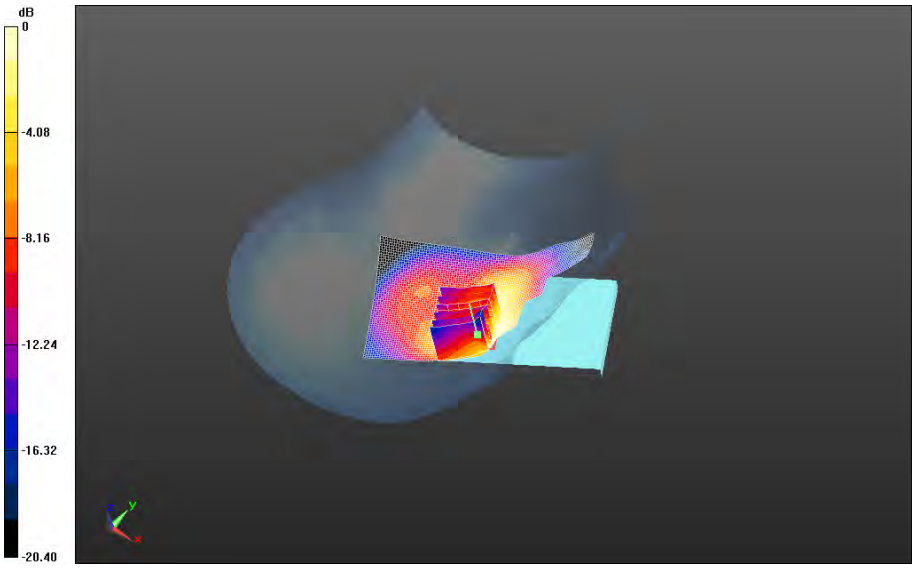
- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - GSM_DTM 1900/Touch Position -DTM 1900_2-slots_chan661_amb_temp_23.7C_liq_temp_21.3C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.590 V/m; **Power Drift = -0.149 dB**

**Fast SAR: SAR(1g) = 0.436 W/kg; SAR(10g) = 0.260 W/kg**
Maximum value of SAR (interpolated) = 0.474 W/kg

**Right-Hand-Side HSL - GSM_DTM 1900/Touch Position -DTM 1900_2-slots_chan661_amb_temp_23.7C_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 = 7.590 V/m; **Power Drift = -0.149 dB**

**Averaged SAR: SAR(1g) = 0.428 W/kg; SAR(10g) = 0.279 W/kg**
Maximum value of SAR (interpolated) = 0.598 W/kg




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

**Right-Hand-Side HSL - GSM_DTM 1900/Tilt Position -DTM 1900_2-slots_chan661_amb_temp_23.9C_liq_temp_21.4C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.588 V/m; **Power Drift = 0.014 dB**

**Fast SAR: SAR(1g) = 0.205 W/kg; SAR(10g) = 0.121 W/kg**
Maximum value of SAR (interpolated) = 0.230 W/kg


0 dB = 0.230 W/kg = -6.38 dBW/kg

Date: 2/9/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Left-Hand-Side HSL - GSM_DTM 1900

Communication System: DTM 1900 (2slots) (0); Communication System Band: DTM 1900; Frequency: 1850.2 MHz
Medium Parameters used: f=1850.2 MHz; $\sigma$ = 1.360 S/m; $\varepsilon_r$ = 38.825; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

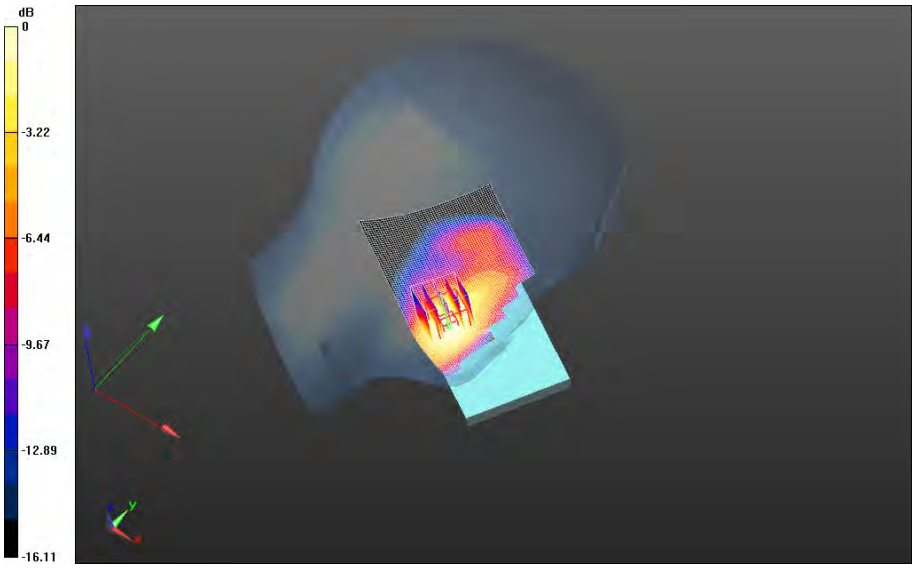
- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - GSM_DTM 1900/Touch Position -DTM 1900_2-slots_chan512_amb_temp_23.8C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.285 V/m; **Power Drift = 0.079 dB**

**Fast SAR: SAR(1g) = 0.621 W/kg; SAR(10g) = 0.358 W/kg**
Maximum value of SAR (interpolated) = 0.687 W/kg

**Left-Hand-Side HSL - GSM_DTM 1900/Touch Position -DTM 1900_2-slots_chan512_amb_temp_23.8C_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 = 7.285 V/m; **Power Drift = 0.079 dB**

**Averaged SAR: SAR(1g) = 0.617 W/kg; SAR(10g) = 0.384 W/kg**
Maximum value of SAR (interpolated) = 0.896 W/kg



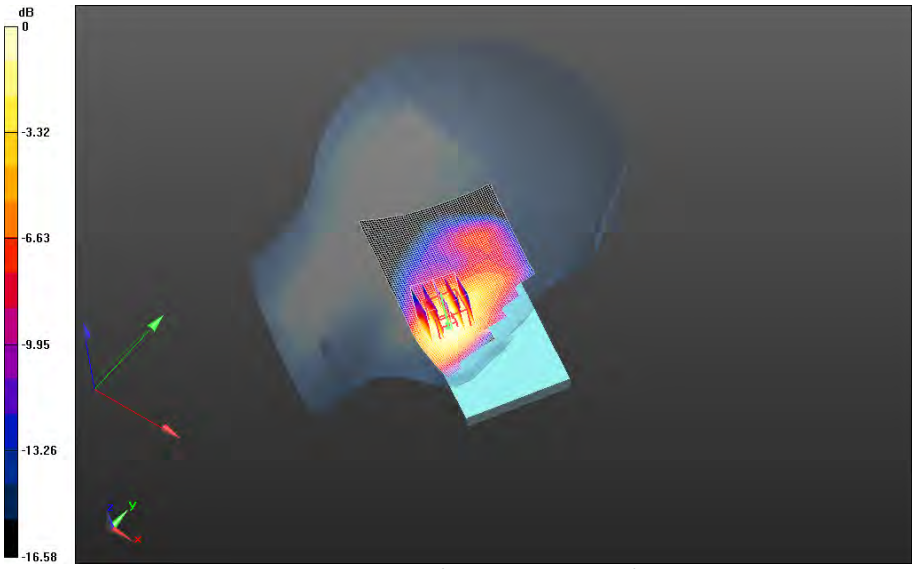

0 dB = 0.666 W/kg = -1.77 dBW/kg

**Left-Hand-Side HSL - GSM_DTM 1900/Touch Position -DTM 1900_2-slots_chan661_amb_temp_23.8C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.137 V/m; **Power Drift = 0.057 dB**

**Fast SAR: SAR(1g) = 0.699 W/kg; SAR(10g) = 0.402 W/kg**
Maximum value of SAR (interpolated) = 0.785 W/kg

**Left-Hand-Side HSL - GSM_DTM 1900/Touch Position -DTM 1900_2-slots_chan661_amb_temp_23.8C_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 = 7.137 V/m; **Power Drift = 0.057 dB**

**Averaged SAR: SAR(1g) = 0.704 W/kg; SAR(10g) = 0.432 W/kg**
Maximum value of SAR (interpolated) = 1.05 W/kg



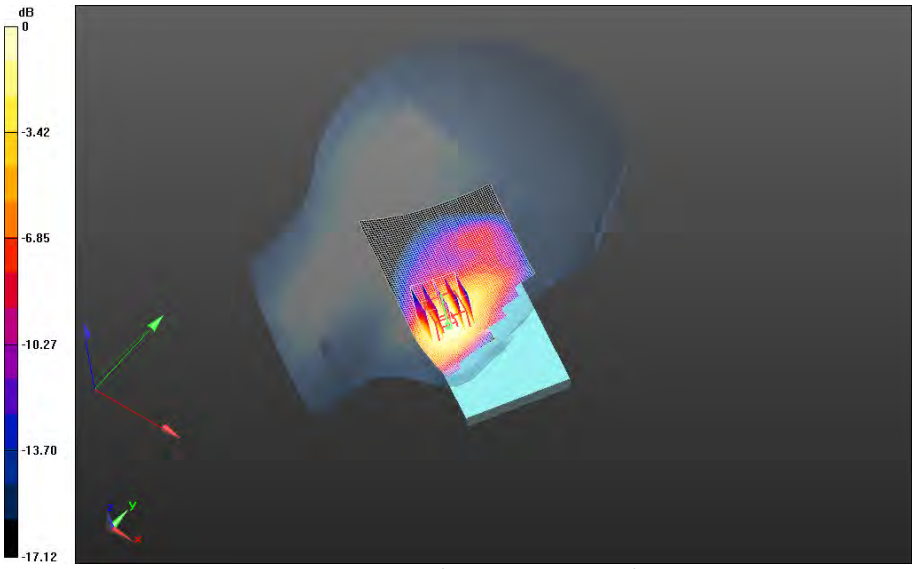

0 dB = 0.769 W/kg = -1.14 dBW/kg

**Left-Hand-Side HSL - GSM_DTM 1900/Touch Position -DTM 1900_2-slots_chan810_amb_temp_23.8C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.876 V/m; **Power Drift = -0.031 dB**

**Fast SAR: SAR(1g) = 0.737 W/kg; SAR(10g) = 0.422 W/kg**
Maximum value of SAR (interpolated) = 0.829 W/kg

**Left-Hand-Side HSL - GSM_DTM 1900/Touch Position -DTM 1900_2-slots_chan810_amb_temp_23.8C_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 = 6.876 V/m; **Power Drift = -0.031 dB**

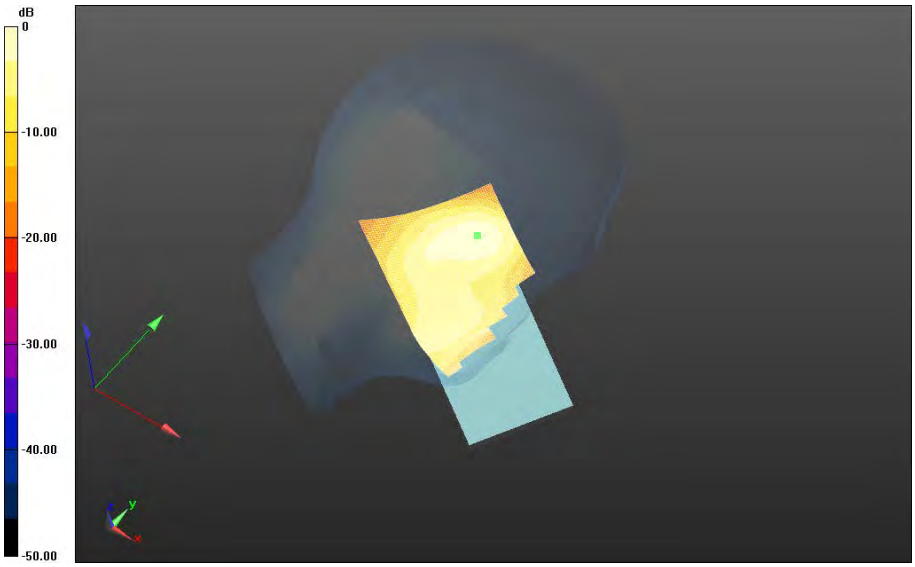
**Averaged SAR: SAR(1g) = 0.750 W/kg; SAR(10g) = 0.455 W/kg**
Maximum value of SAR (interpolated) = 1.12 W/kg




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

**Left-Hand-Side HSL - GSM_DTM 1900/Tilt Position - DTM 1900_2-slot_chan661_amb_temp_23.4C_liq_temp_22.1C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.025 V/m; **Power Drift = 0.020 dB**

**Fast SAR: SAR(1g) = 0.305 W/kg; SAR(10g) = 0.170 W/kg**
Maximum value of SAR (interpolated) = 0.346 W/kg




0 dB = 0.346 W/kg = -4.61 dBW/kg

# UMTS Band II

Date: 2/9/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

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

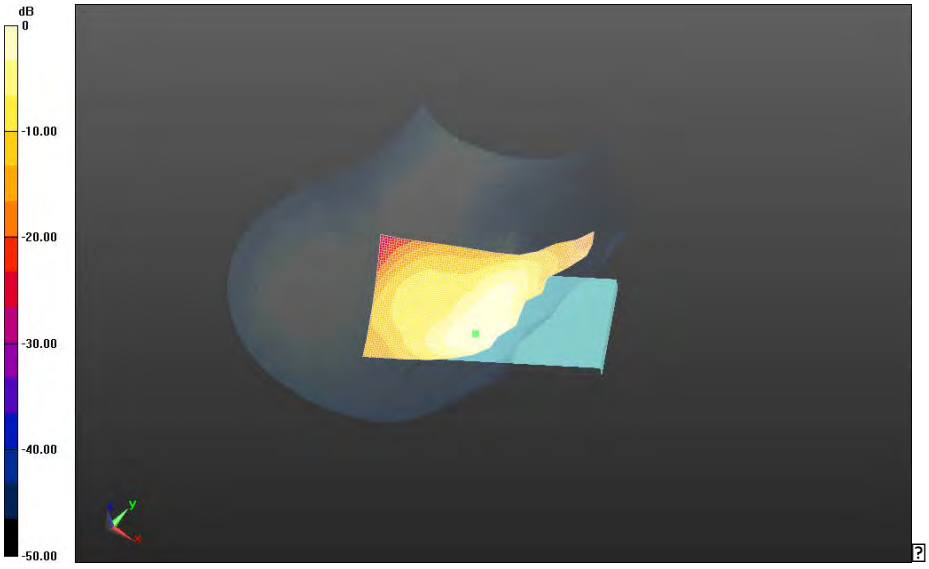
Communication System: WCDMA FDD II (0); Communication System Band: UMTS FDD II;
Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.391 S/m; $\varepsilon_r$ = 38.739; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - UMTS II/Touch Position -UMTS II_chan9400_amb_temp_23.7C_liq_temp_21.2C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.447 V/m; **Power Drift = -0.054 dB**

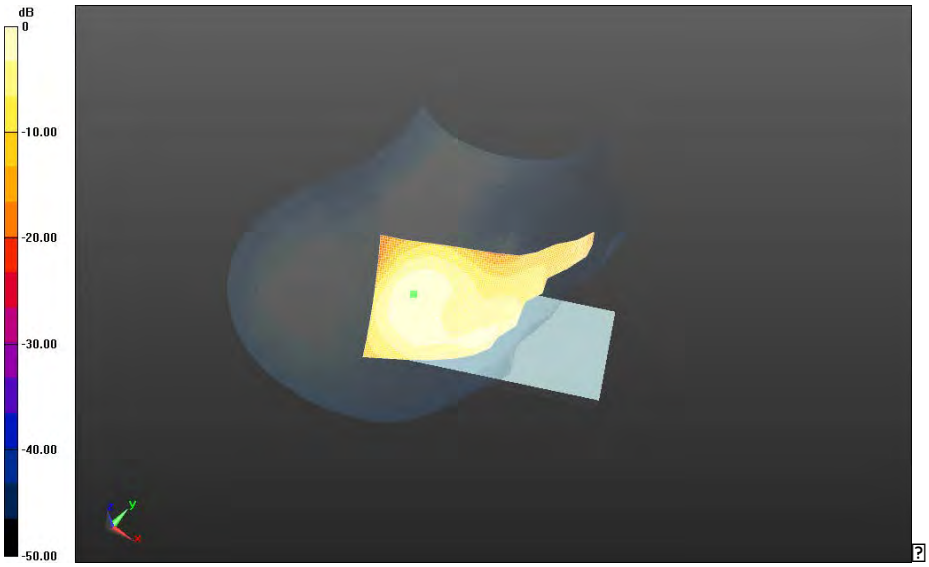
**Fast SAR: SAR(1g) = 0.632 W/kg; SAR(10g) = 0.381 W/kg**
Maximum value of SAR (interpolated) = 0.683 W/kg




0 dB = 0.683 W/kg = -1.66 dBW/kg

**Right-Hand-Side HSL - UMTS II/Tilt Position -UMTS II_chan9400_amb_temp_23.5C_liq_temp_21.3C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.645 V/m; **Power Drift = -0.111 dB**

**Fast SAR: SAR(1g) = 0.312 W/kg; SAR(10g) = 0.184 W/kg**
Maximum value of SAR (interpolated) = 0.349 W/kg




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

Date: 2/9/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

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

Communication System: WCDMA FDD II (0); Communication System Band: UMTS FDD II;
Frequency: 1852.4 MHz
Medium Parameters used: f=1852.4 MHz; $\sigma$ = 1.362 S/m; $\varepsilon_r$ = 38.819; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

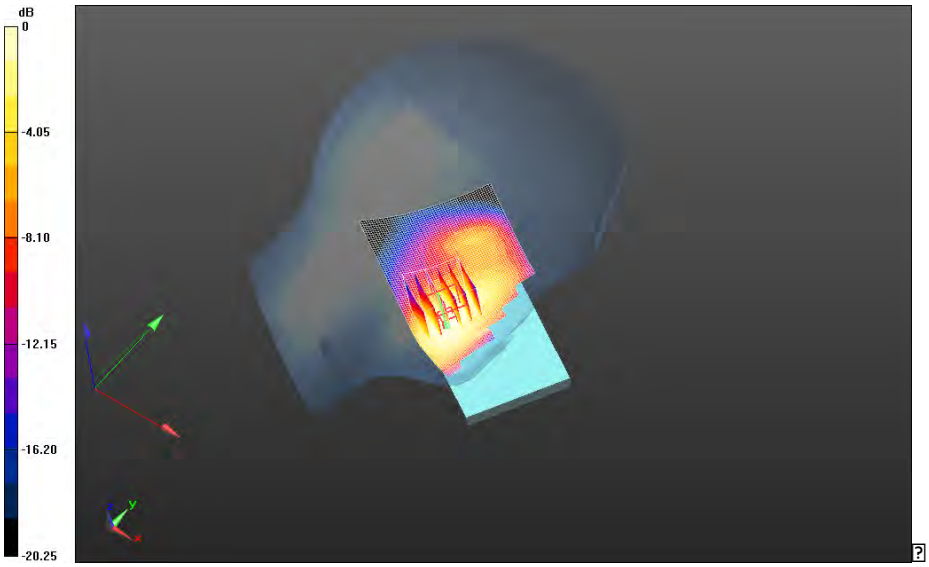
- Probe: ET3DV6 - SN1643; ConvF: (5.17,5.17,5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - UMTS II/Touch Position - UMTS II_chan9262_amb_temp_23.9C_liq_temp_21.4C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.177 V/m; **Power Drift = -0.165 dB**

**Fast SAR: SAR(1g) = 0.910 W/kg; SAR(10g) = 0.530 W/kg**
Maximum value of SAR (interpolated) = 1.00 W/kg

**Left-Hand-Side HSL - UMTS II/Touch Position - UMTS II_chan9262_amb_temp_23.9C_liq_temp_21.4C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.177 V/m; **Power Drift = -0.165 dB**

**Averaged SAR: SAR(1g) = 0.903 W/kg; SAR(10g) = 0.575 W/kg**
Maximum value of SAR (interpolated) = 1.27 W/kg



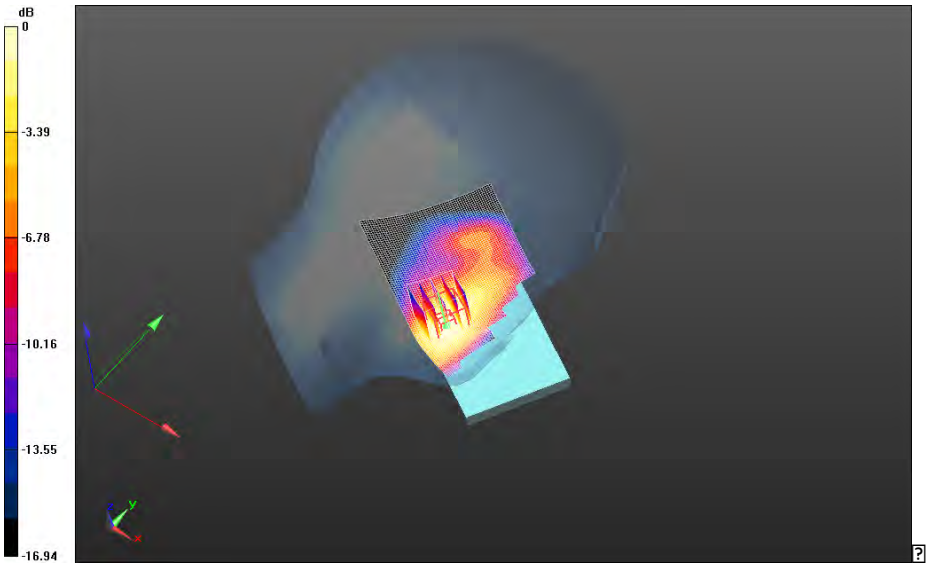

0 dB = 0.958 W/kg = -0.19 dBW/kg

**Left-Hand-Side HSL - UMTS II/Touch Position - UMTS II_chan9400_amb_temp_23.7C_liq_temp_21.4C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.456 V/m; **Power Drift = 0.150 dB**

**Fast SAR: SAR(1g) = 1.01 W/kg; SAR(10g) = 0.582 W/kg**
Maximum value of SAR (interpolated) = 1.13 W/kg

**Left-Hand-Side HSL - UMTS II/Touch Position - UMTS II_chan9400_amb_temp_23.7C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.456 V/m; **Power Drift = 0.150 dB**

**Averaged SAR: SAR(1g) = 0.981 W/kg; SAR(10g) = 0.618 W/kg**
Maximum value of SAR (interpolated) = 1.42 W/kg



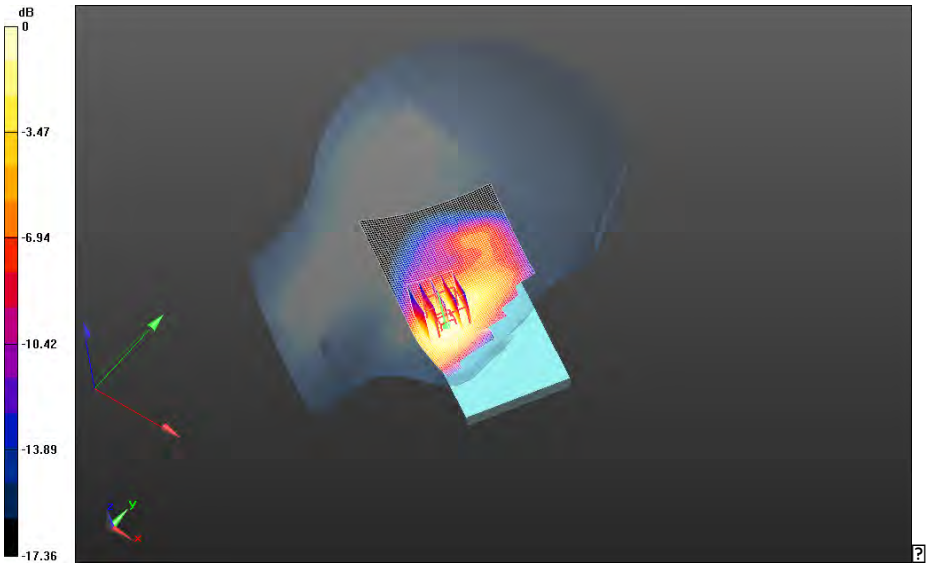

0 dB = 1.07 W/kg = 0.29 dBW/kg

**Left-Hand-Side HSL - UMTS II/Touch Position - UMTS II_chan9538_amb_temp_23.7C_liq_temp_21.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.635 V/m; **Power Drift = 0.059 dB**

**Fast SAR: SAR(1g) = 0.878 W/kg; SAR(10g) = 0.509 W/kg**
Maximum value of SAR (interpolated) = 0.980 W/kg

**Left-Hand-Side HSL - UMTS II/Touch Position - UMTS II_chan9538_amb_temp_23.7C_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 = 8.635 V/m; **Power Drift = 0.059 dB**

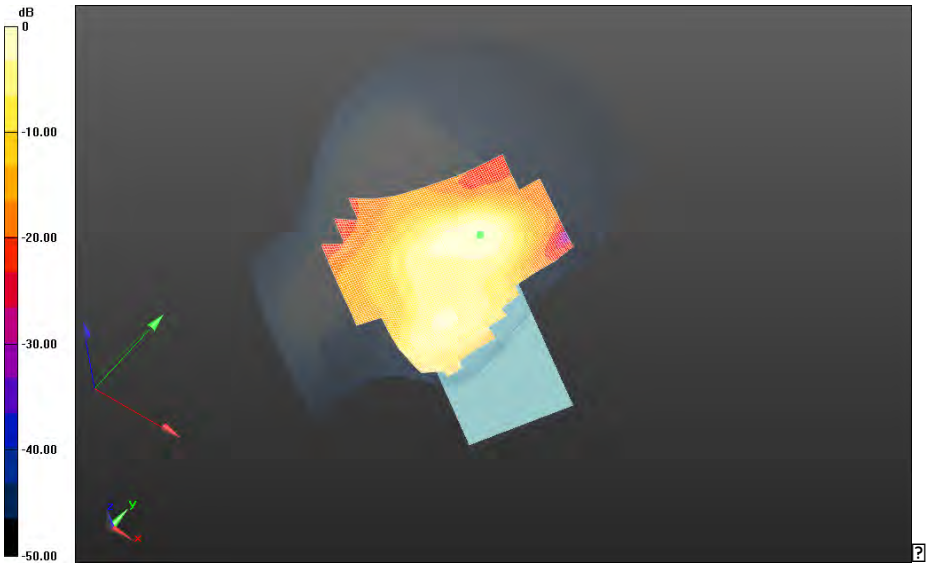
**Averaged SAR: SAR(1g) = 0.881 W/kg; SAR(10g) = 0.550 W/kg**
Maximum value of SAR (interpolated) = 1.30 W/kg




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

**Left-Hand-Side HSL - UMTS II/Tilt Position - UMTS II_chan9400_amb_temp_23.4C_liq_temp_21.3C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.060 V/m; **Power Drift = 0.133 dB**

**Fast SAR: SAR(1g) = 0.465 W/kg; SAR(10g) = 0.267 W/kg**
Maximum value of SAR (interpolated) = 0.594 W/kg



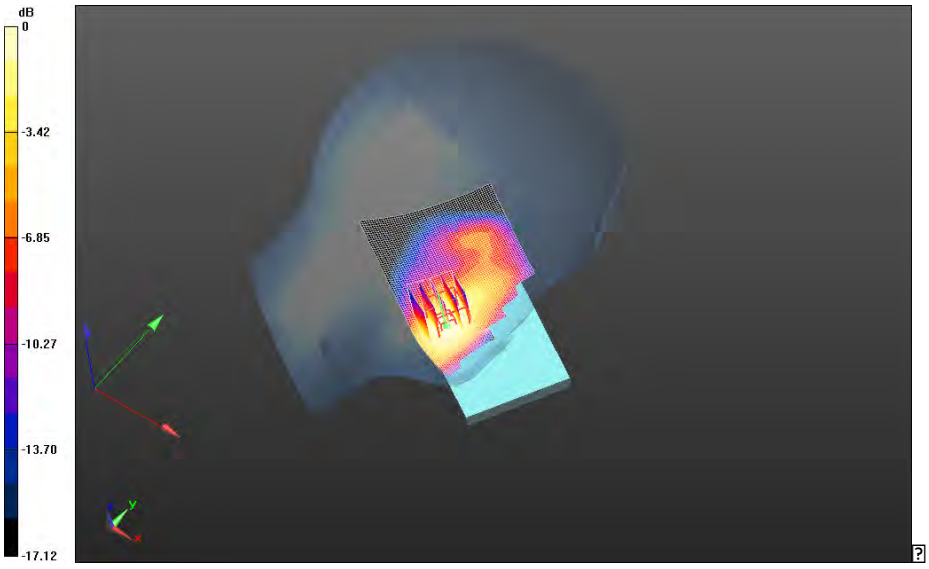

0 dB = 0.594 W/kg = -2.26 dBW/kg

**Left-Hand-Side HSL - UMTS II/2nd Scan Touch Position - UMTS II_chan9400_amb_temp_23.6C_liq_temp_21.3C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.555 V/m; **Power Drift = 0.057 dB**

**Fast SAR: SAR(1g) = 1.00 W/kg; SAR(10g) = 0.581 W/kg**
Maximum value of SAR (interpolated) = 1.12 W/kg

**Left-Hand-Side HSL - UMTS II/2nd Scan Touch Position - UMTS II_chan9400_amb_temp_23.6C_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 = 9.555 V/m; **Power Drift = 0.057 dB**

**Averaged SAR: SAR(1g) = 1.01 W/kg; SAR(10g) = 0.631 W/kg**
Maximum value of SAR (interpolated) = 1.46 W/kg




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

# 802.11b/g

Date: 3/2/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Right-Hand-Side HSL - 802.11g

Communication System: 802.11 b/g (2450) (0); Communication System Band: 802.11 g;
Frequency: 2412 MHz
Medium Parameters used: f=2412 MHz; $\sigma$ = 1.807 S/m; $\varepsilon_r$ = 40.429; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

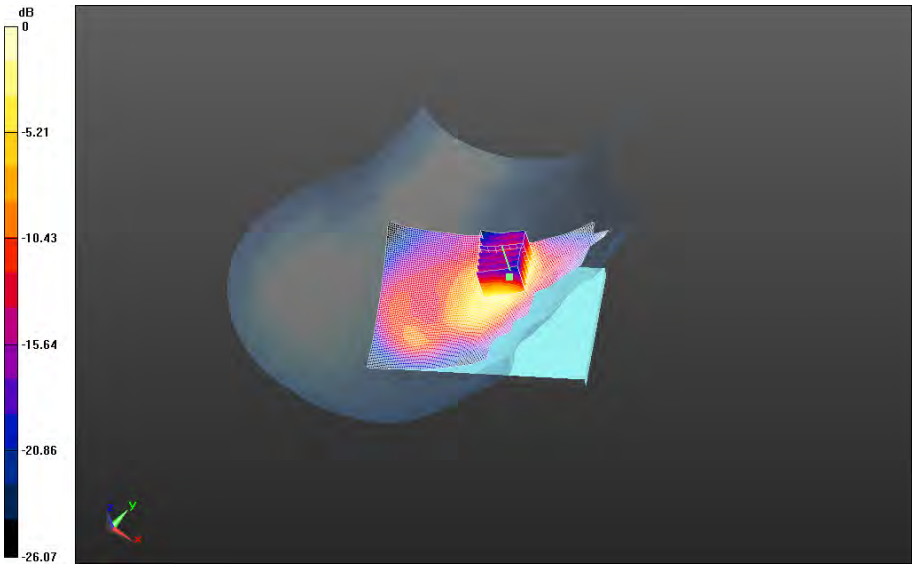
- Probe: ET3DV6 - SN1643; ConvF: (4.46,4.46,4.46); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan1_amb_temp_23.8C_liq_temp_21.8C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 4.467 V/m; **Power Drift = 0.434 dB**

**Fast SAR: SAR(1g) = 0.397 W/kg; SAR(10g) = 0.190 W/kg**
Maximum value of SAR (interpolated) = 0.460 W/kg

**Right-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan1_amb_temp_23.8C_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 = 4.467 V/m; **Power Drift = 0.434 dB**

**Averaged SAR: SAR(1g) = 0.389 W/kg; SAR(10g) = 0.182 W/kg**
Maximum value of SAR (interpolated) = 0.965 W/kg



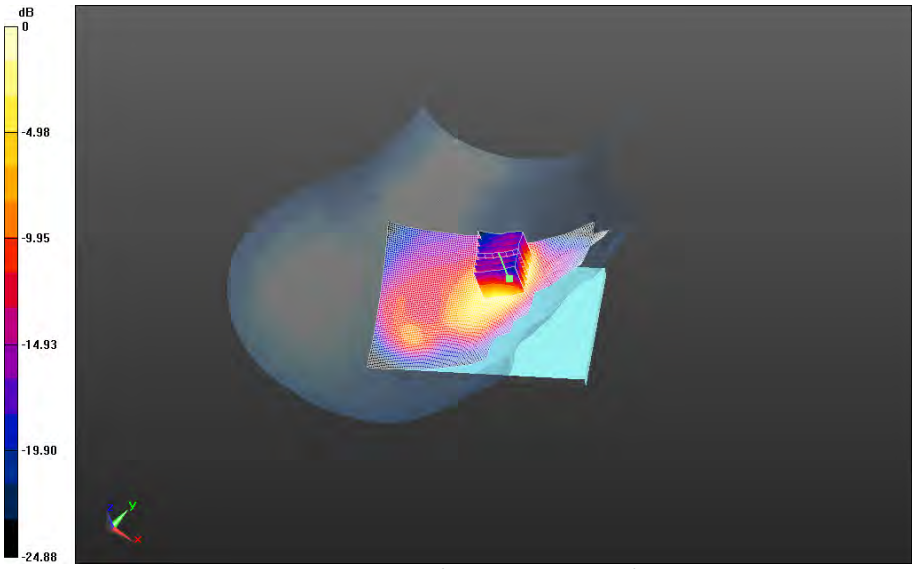

0 dB = 0.440 W/kg = -3.57 dBW/kg

**Right-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan6_amb_temp_24.1C_liq_temp_22.0C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 5.332 V/m; **Power Drift = 0.018 dB**

**Fast SAR: SAR(1g) = 0.527 W/kg; SAR(10g) = 0.250 W/kg**
Maximum value of SAR (interpolated) = 0.622 W/kg

**Right-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan6_amb_temp_24.1C_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 = 5.332 V/m; **Power Drift = 0.018 dB**

**Averaged SAR: SAR(1g) = 0.515 W/kg; SAR(10g) = 0.243 W/kg**
Maximum value of SAR (interpolated) = 1.26 W/kg



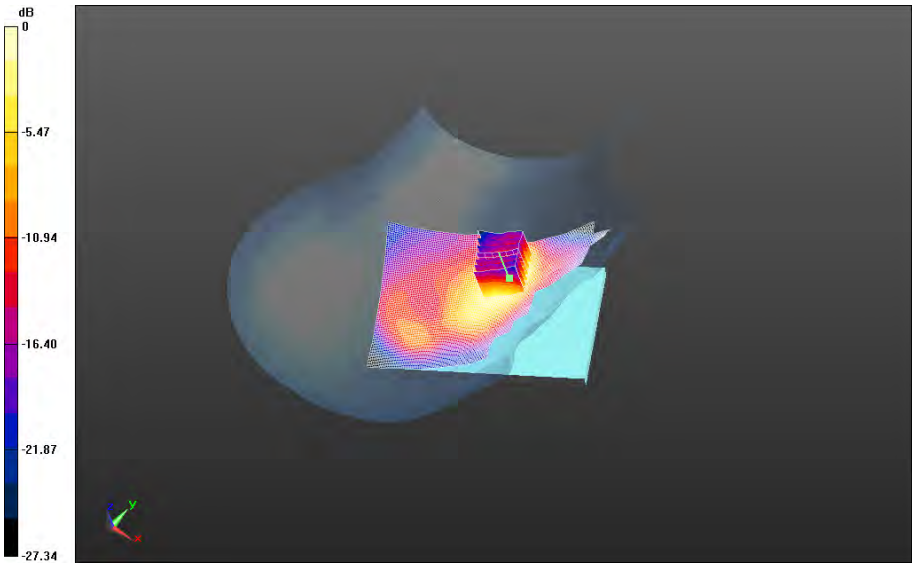

0 dB = 0.569 W/kg = -2.45 dBW/kg

**Right-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan11_amb_temp_23.9C_liq_temp_21.6C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 4.214 V/m; **Power Drift = -0.274 dB**

**Fast SAR: SAR(1g) = 0.347 W/kg; SAR(10g) = 0.164 W/kg**
Maximum value of SAR (interpolated) = 0.407 W/kg

**Right-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan11_amb_temp_23.9C_liq_temp_21.6C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.214 V/m; **Power Drift = -0.274 dB**

**Averaged SAR: SAR(1g) = 0.339 W/kg; SAR(10g) = 0.158 W/kg**
Maximum value of SAR (interpolated) = 0.833 W/kg




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

**Right-Hand-Side HSL - 802.11g/Tilt Position - 802.11g_chan6_amb_temp_24.1C_liq_temp_22.0C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 6.876 V/m; **Power Drift = 0.117 dB**

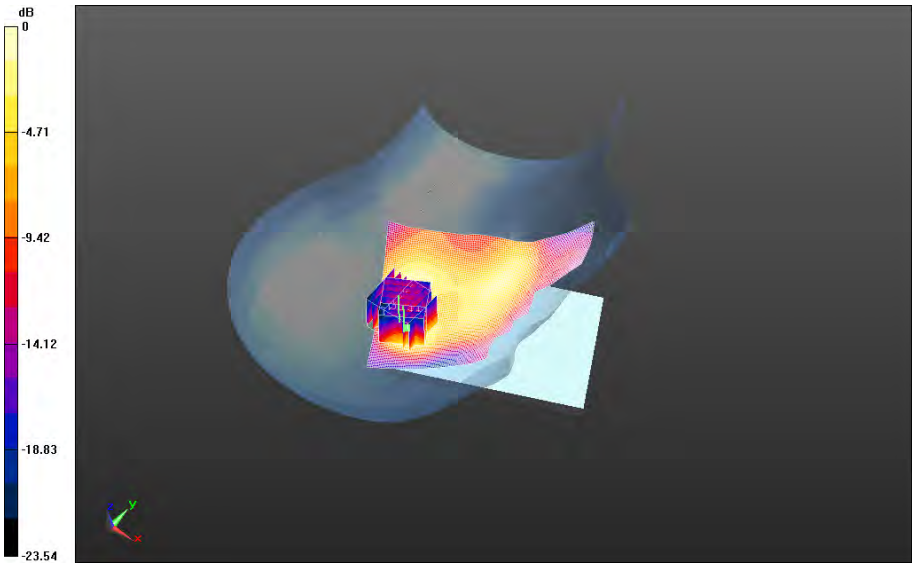
**Fast SAR: SAR(1g) = 0.0859 W/kg; SAR(10g) = 0.0419 W/kg**
Maximum value of SAR (interpolated) = 0.104 W/kg

**Right-Hand-Side HSL - 802.11g/Tilt Position - 802.11g_chan6_amb_temp_24.1C_liq_temp_22.0C/Zoom Scan (36x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 6.876 V/m; **Power Drift = 0.117 dB**

**Averaged SAR: SAR(1g) = 0.0916 W/kg; SAR(10g) = 0.0462 W/kg**
Maximum value of SAR (interpolated) = 0.179 W/kg

**Right-Hand-Side HSL - 802.11g/Tilt Position - 802.11g_chan6_amb_temp_24.1C_liq_temp_22.0C/Zoom Scan 2 (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 6.876 V/m; **Power Drift = 0.165 dB**

**Averaged SAR: SAR(1g) = 0.0961 W/kg; SAR(10g) = 0.0466 W/kg**
Maximum value of SAR (interpolated) = 0.189 W/kg



0 dB = 0.107 W/kg = -9.71 dBW/kg

Date: 3/2/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Left-Hand-Side HSL - 802.11g

Communication System: 802.11 b/g (2450) (0); Communication System Band: 802.11 b;
Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; $\sigma$ = 1.838 S/m; $\varepsilon_r$ = 40.372; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.46,4.46,4.46); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

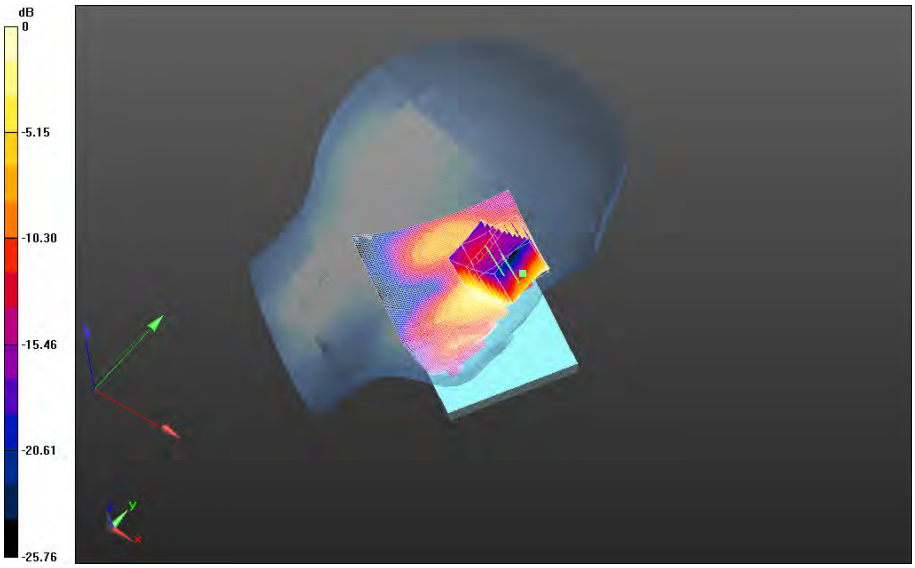
**Left-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan6_amb_temp_23.9C_liq_temp_21.8C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 5.137 V/m; **Power Drift = 0.052 dB**

**Fast SAR: SAR(1g) = 0.210 W/kg; SAR(10g) = 0.120 W/kg**
Maximum value of SAR (interpolated) = 0.233 W/kg

**Left-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan6_amb_temp_23.9C_liq_temp_21.8C/Zoom Scan (46x36x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 5.137 V/m; **Power Drift = 0.052 dB**

**Averaged SAR: SAR(1g) = 0.218 W/kg; SAR(10g) = 0.127 W/kg**
Maximum value of SAR (interpolated) = 0.473 W/kg
**Left-Hand-Side HSL - 802.11g/Touch Position - 802.11g_chan6_amb_temp_23.9C_liq_temp_21.8C/Zoom Scan 2 (41x36x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 5.137 V/m; **Power Drift = -0.041 dB**

**Averaged SAR: SAR(1g) = 0.224 W/kg; SAR(10g) = 0.123 W/kg**
Maximum value of SAR (interpolated) = 0.524 W/kg



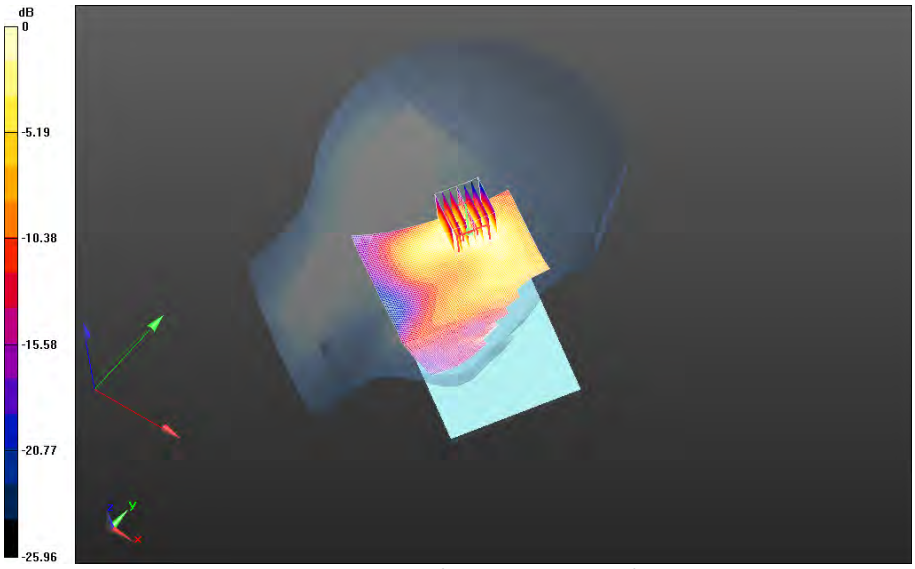

0 dB = 0.254 W/kg = -5.95 dBW/kg

**Left-Hand-Side HSL - 802.11g/Tilt Position - 802.11g_chan6_amb_temp_23.9C_liq_temp_21.9C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 6.828 V/m; **Power Drift = -0.023 dB**

**Fast SAR: SAR(1g) = 0.110 W/kg; SAR(10g) = 0.0590 W/kg**
Maximum value of SAR (interpolated) = 0.136 W/kg

**Left-Hand-Side HSL - 802.11g/Tilt Position - 802.11g_chan6_amb_temp_23.9C_liq_temp_21.9C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 6.828 V/m; **Power Drift = -0.023 dB**

**Averaged SAR: SAR(1g) = 0.120 W/kg; SAR(10g) = 0.0620 W/kg**
Maximum value of SAR (interpolated) = 0.218 W/kg




0 dB = 0.133 W/kg = -8.76 dBW/kg

Date: 3/2/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Right-Hand-Side HSL - 802.11b

Communication System: 802.11 b (2450) (0); Communication System Band: 802.11 g; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; $\sigma$ = 1.838 S/m; $\varepsilon_r$ = 40.372; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

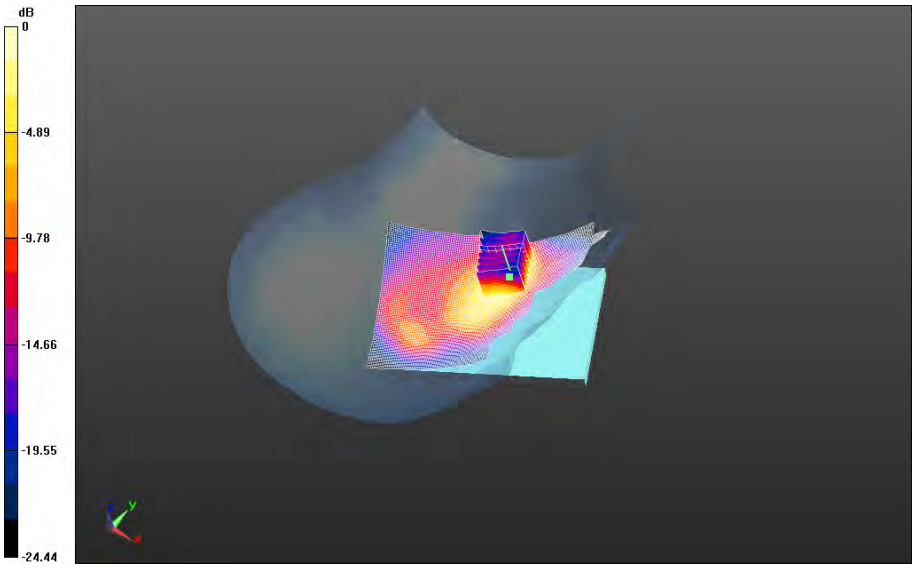
- Probe: ET3DV6 - SN1643; ConvF: (4.46,4.46,4.46); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - 802.11b/Touch Position - 802.11b_chan6_amb_temp_24.1C_liq_temp_22.0C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 5.132 V/m; **Power Drift = -0.157 dB**

**Fast SAR: SAR(1g) = 0.406 W/kg; SAR(10g) = 0.193 W/kg**
Maximum value of SAR (interpolated) = 0.473 W/kg

**Right-Hand-Side HSL - 802.11b/Touch Position - 802.11b_chan6_amb_temp_24.1C_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 = 5.132 V/m; **Power Drift = -0.157 dB**

**Averaged SAR: SAR(1g) = 0.397 W/kg; SAR(10g) = 0.187 W/kg**
Maximum value of SAR (interpolated) = 0.964 W/kg




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

# Bluetooth

Date: 3/3/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Right-Hand-Side HSL - Bluetooth

Communication System: Bluetooth (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz
Medium Parameters used: f=2441 MHz; $\sigma$ = 1.843 S/m; $\varepsilon_r$ = 40.362; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

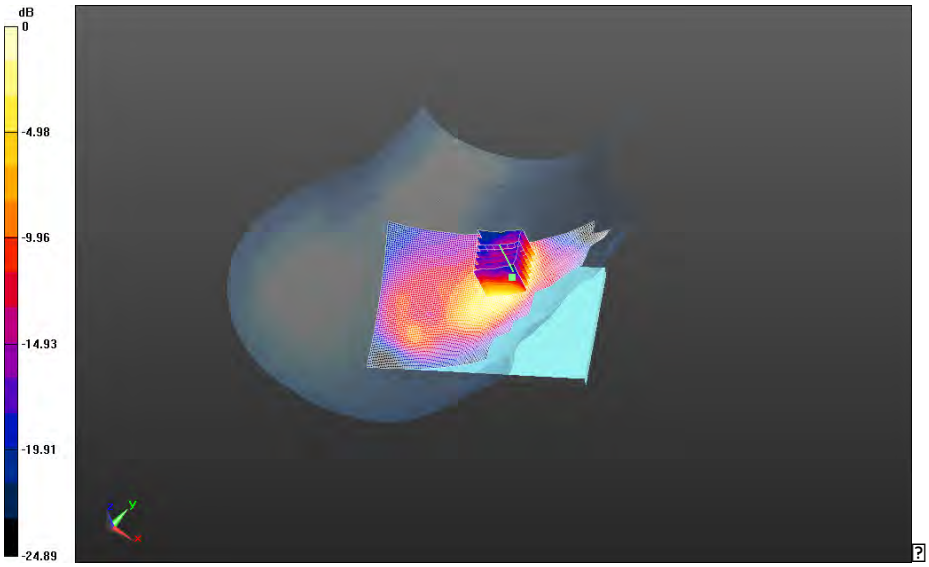
- Probe: ET3DV6 - SN1643; ConvF: (4.46,4.46,4.46); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - Bluetooth/Touch Position - Bluetooth_chan39_amb_temp_23.0C_liq_temp_21.7C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.100 V/m; **Power Drift = 0.492 dB**

**Fast SAR: SAR(1g) = 0.0823 W/kg; SAR(10g) = 0.0397 W/kg**
Maximum value of SAR (interpolated) = 0.0960 W/kg

**Right-Hand-Side HSL - Bluetooth/Touch Position - Bluetooth_chan39_amb_temp_23.0C_liq_temp_21.7C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 2.100 V/m; **Power Drift = 0.492 dB**

**Averaged SAR: SAR(1g) = 0.0843 W/kg; SAR(10g) = 0.0401 W/kg**
Maximum value of SAR (interpolated) = 0.207 W/kg




0 dB = 0.0926 W/kg = -10.33 dBW/kg

Date: 3/3/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Left-Hand-Side HSL - Bluetooth

Communication System: Bluetooth (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz
Medium Parameters used: f=2441 MHz; $\sigma$ = 1.843 S/m; $\varepsilon_r$ = 40.362; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

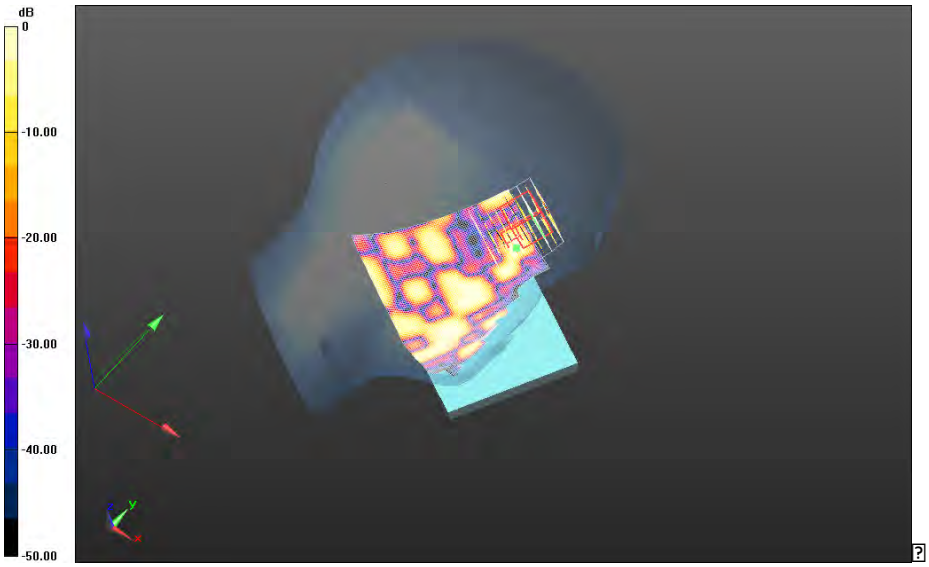
- Probe: ET3DV6 - SN1643; ConvF: (4.46,4.46,4.46); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Left-Hand-Side HSL - Bluetooth/Touch Position - Bluetooth_chan39_amb_temp_24.2C_liq_temp_22.0C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 0.903 V/m; **Power Drift = -0.141 dB**

**Fast SAR: SAR(1g) = 0.000530 W/kg; SAR(10g) = 0.000223 W/kg**
Maximum value of SAR (interpolated) = 0.000699 W/kg

**Left-Hand-Side HSL - Bluetooth/Touch Position - Bluetooth_chan39_amb_temp_24.2C_liq_temp_22.0C/Zoom Scan (46x41x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 0.903 V/m; **Power Drift = -0.141 dB**

**Averaged SAR: SAR(1g) = 0.000240 W/kg; SAR(10g) = 0.0000852 W/kg**
Maximum value of SAR (interpolated) = 0.00134 W/kg




0 dB = 0.000900 W/kg = -30.46 dBW/kg

# LTE Band 7

Date: 3/3/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Right-Hand-Side HSL - LTE 7

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2510 MHz
Medium Parameters used: f=2510 MHz; $\sigma$ = 1.920 S/m; $\varepsilon_r$ = 40.113; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

**DASY Configuration:**

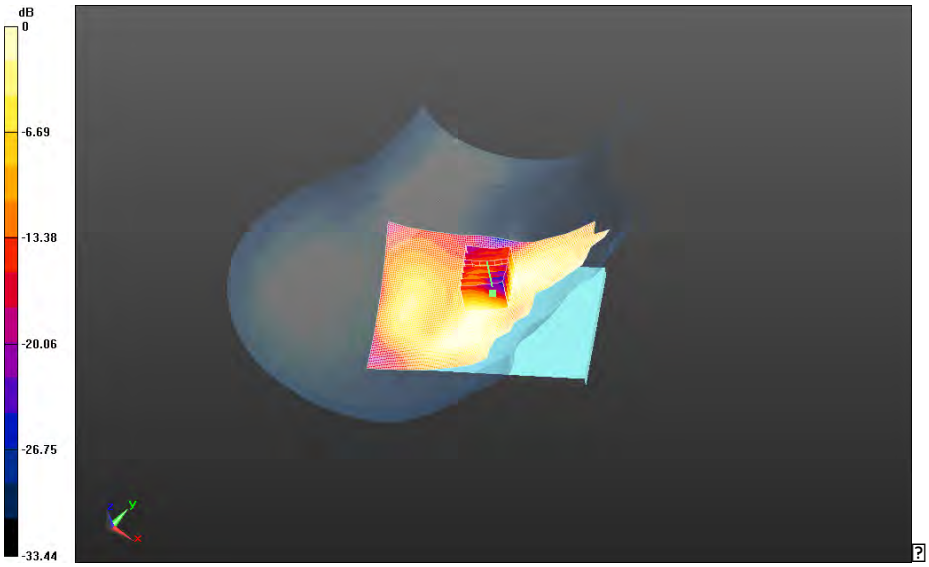
- Probe: ES3DV3 - SN3225; ConvF: (4.4,4.4,4.4); Calibrated: 2/25/2015;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.2C_liq_temp_21.7C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 6.134 V/m; **Power Drift = 0.180 dB**

**Fast SAR: SAR(1g) = 0.144 W/kg; SAR(10g) = 0.0713 W/kg**
Maximum value of SAR (interpolated) = 0.188 W/kg

**Right-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.2C_liq_temp_21.7C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 6.134 V/m; **Power Drift = 0.180 dB**

**Averaged SAR: SAR(1g) = 0.146 W/kg; SAR(10g) = 0.0753 W/kg**
Maximum value of SAR (interpolated) = 0.265 W/kg




0 dB = 0.182 W/kg = -7.40 dBW/kg

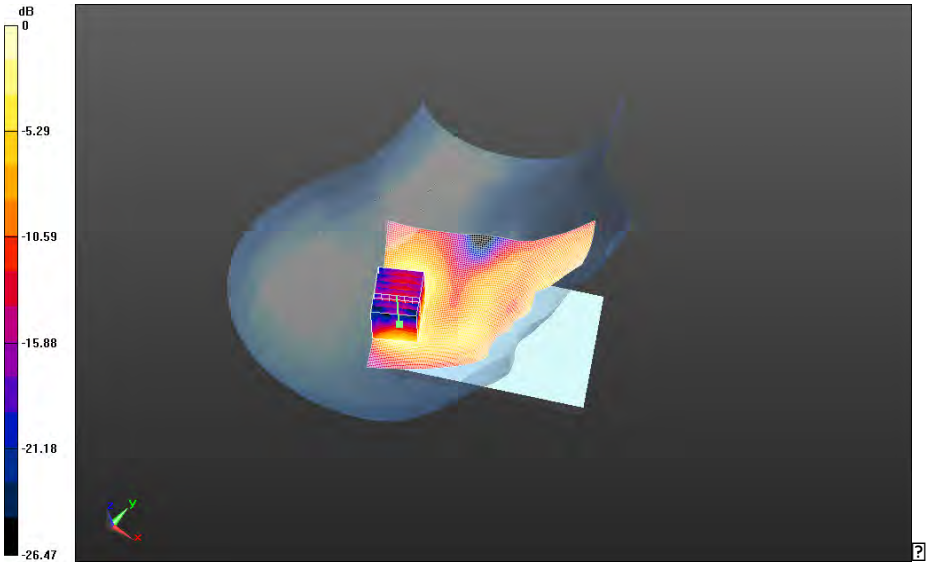
**Right-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.1C_liq_temp_21.6C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 8.801 V/m; **Power Drift = -0.016 dB**

**Fast SAR: SAR(1g) = 0.120 W/kg; SAR(10g) = 0.0627 W/kg**
Maximum value of SAR (interpolated) = 0.173 W/kg

**Right-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.1C_liq_temp_21.6C/Zoom Scan (36x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.801 V/m; **Power Drift = -0.016 dB**

**Averaged SAR: SAR(1g) = 0.130 W/kg; SAR(10g) = 0.0652 W/kg**
Maximum value of SAR (interpolated) = 0.242 W/kg
**Right-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.1C_liq_temp_21.6C/Zoom Scan 2 (36x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.801 V/m; **Power Drift = 0.108 dB**

**Averaged SAR: SAR(1g) = 0.128 W/kg; SAR(10g) = 0.0646 W/kg**
Maximum value of SAR (interpolated) = 0.238 W/kg




0 dB = 0.162 W/kg = -7.90 dBW/kg

Date: 3/3/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Left-Hand-Side HSL - LTE 7

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2510 MHz
Medium Parameters used: f=2510 MHz; $\sigma$ = 1.920 S/m; $\varepsilon_r$ = 40.113; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.4,4.4,4.4); Calibrated: 2/25/2015;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

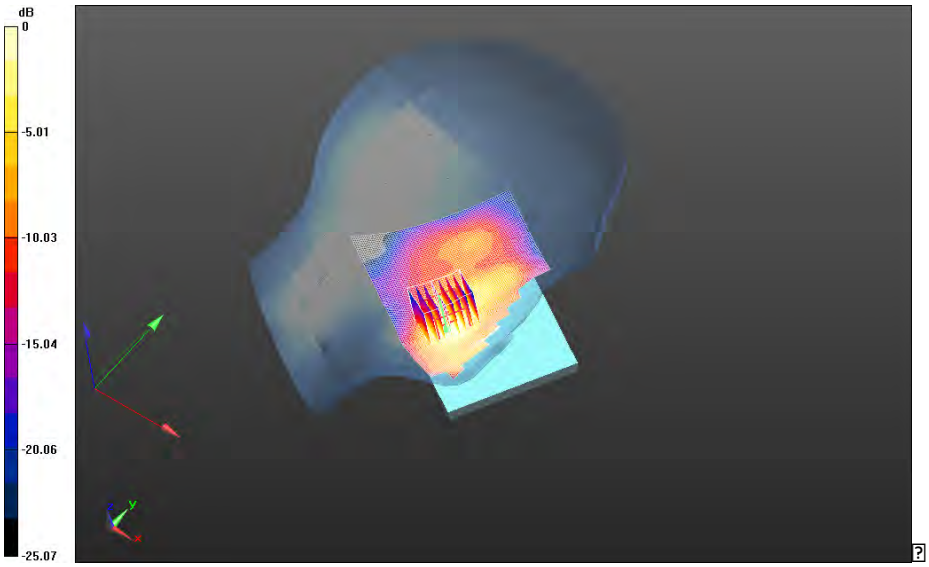
**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.5C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 4.537 V/m; **Power Drift = 0.904 dB**

**Fast SAR: SAR(1g) = 0.334 W/kg; SAR(10g) = 0.172 W/kg**
Maximum value of SAR (interpolated) = 0.433 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan (36x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.537 V/m; **Power Drift = 0.904 dB**

**Averaged SAR: SAR(1g) = 0.352 W/kg; SAR(10g) = 0.184 W/kg**
Maximum value of SAR (interpolated) = 0.650 W/kg
**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan 2 (36x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.537 V/m; **Power Drift = 0.997 dB**

**Averaged SAR: SAR(1g) = 0.351 W/kg; SAR(10g) = 0.184 W/kg**
Maximum value of SAR (interpolated) = 0.640 W/kg



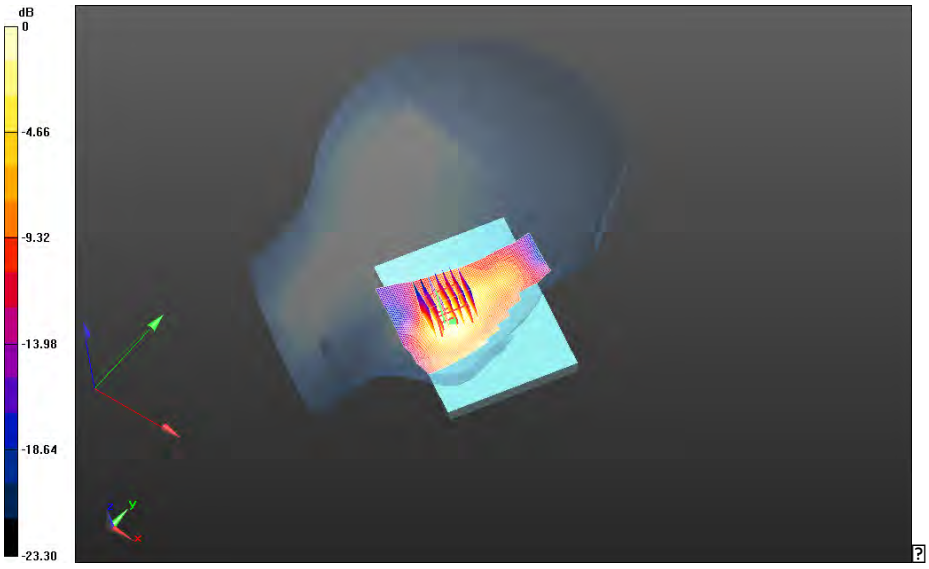

0 dB = 0.440 W/kg = -3.57 dBW/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan21100_20MHz_BW_RB1_Offset_Low_amb_temp_23.9C_liq_temp_21.5C/Area Scan (151x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 5.566 V/m; **Power Drift = -0.052 dB**

**Fast SAR: SAR(1g) = 0.303 W/kg; SAR(10g) = 0.155 W/kg**
Maximum value of SAR (interpolated) = 0.401 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan21100_20MHz_BW_RB1_Offset_Low_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 5.566 V/m; **Power Drift = -0.052 dB**

**Averaged SAR: SAR(1g) = 0.320 W/kg; SAR(10g) = 0.167 W/kg**
Maximum value of SAR (interpolated) = 0.586 W/kg



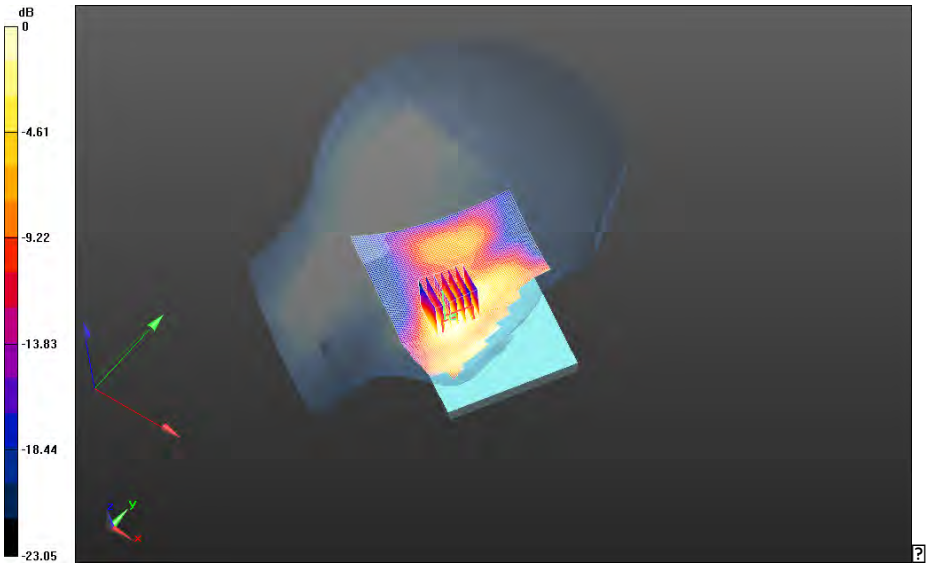

0 dB = 0.400 W/kg = -3.98 dBW/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan21350_20MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_21.5C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 5.024 V/m; **Power Drift = 0.082 dB**

**Fast SAR: SAR(1g) = 0.204 W/kg; SAR(10g) = 0.106 W/kg**
Maximum value of SAR (interpolated) = 0.275 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan21350_20MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 5.024 V/m; **Power Drift = 0.082 dB**

**Averaged SAR: SAR(1g) = 0.213 W/kg; SAR(10g) = 0.114 W/kg**
Maximum value of SAR (interpolated) = 0.381 W/kg



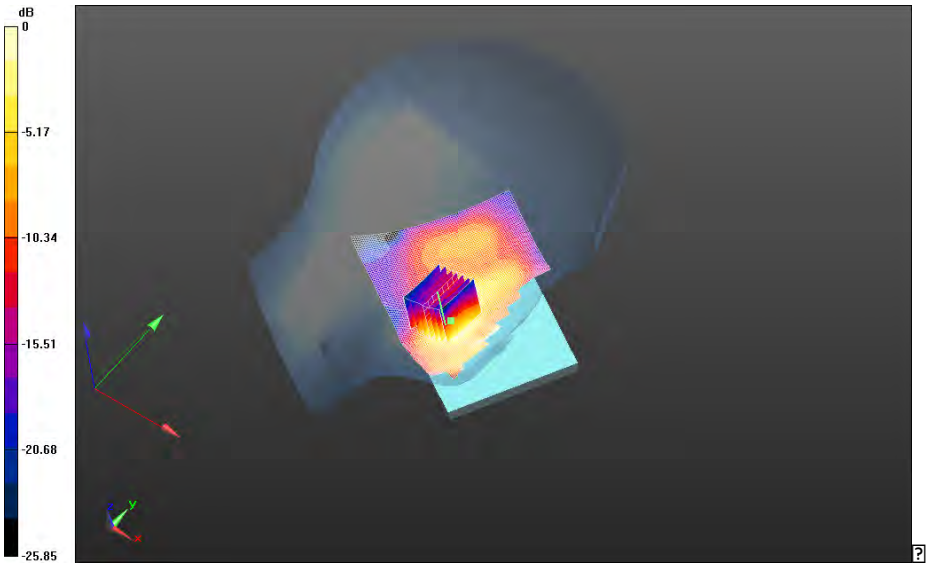

0 dB = 0.263 W/kg = -5.80 dBW/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB50_Offset_High_amb_temp_23.9C_liq_temp_21.5C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 4.617 V/m; **Power Drift = 0.285 dB**

**Fast SAR: SAR(1g) = 0.257 W/kg; SAR(10g) = 0.132 W/kg**
Maximum value of SAR (interpolated) = 0.335 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB50_Offset_High_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan (31x36x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.617 V/m; **Power Drift = 0.285 dB**

**Averaged SAR: SAR(1g) = 0.262 W/kg; SAR(10g) = 0.135 W/kg**
Maximum value of SAR (interpolated) = 0.479 W/kg



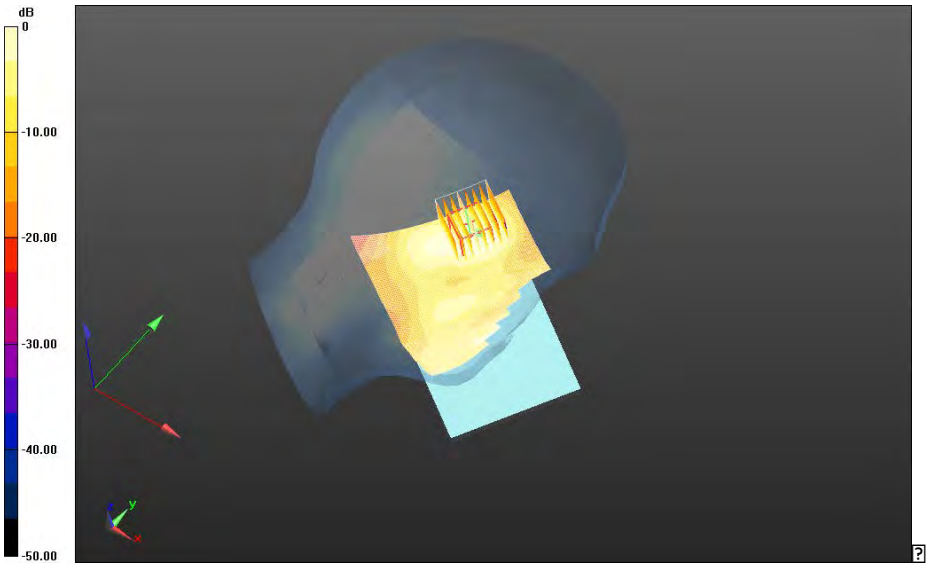

0 dB = 0.328 W/kg = -4.84 dBW/kg

**Left-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.5C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 9.023 V/m; **Power Drift = -0.014 dB**

**Fast SAR: SAR(1g) = 0.175 W/kg; SAR(10g) = 0.0906 W/kg**
Maximum value of SAR (interpolated) = 0.246 W/kg

**Left-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan (36x36x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 9.023 V/m; **Power Drift = -0.014 dB**

**Averaged SAR: SAR(1g) = 0.184 W/kg; SAR(10g) = 0.0963 W/kg**
Maximum value of SAR (interpolated) = 0.323 W/kg




0 dB = 0.230 W/kg = -6.38 dBW/kg

# LTE Band 7 on Model RCD131LW Rev 4

Date: 3/5/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE80F6**

## Configuration: Right-Hand-Side HSL - LTE 7

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2510 MHz
Medium Parameters used: f=2510 MHz; $\sigma$ = 1.920 S/m; $\varepsilon_r$ = 40.113; $\rho$ = 1.000 g/cm$^3$
Phantom section: Right Section

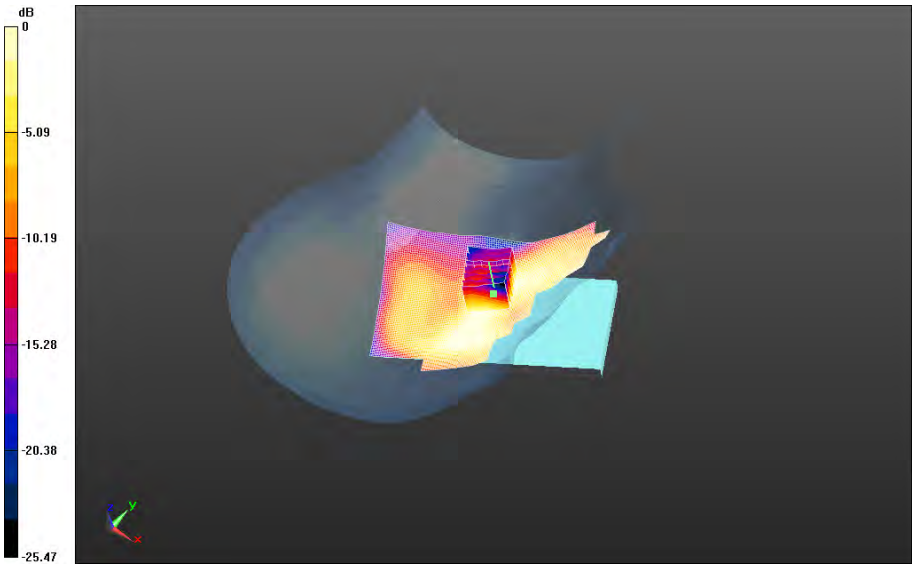
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.4,4.4,4.4); Calibrated: 2/25/2015;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Right-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_21.6C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.198 W/kg

**Right-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_21.6C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 5.247 V/m; **Power Drift = 0.046 dB**

**Averaged SAR: SAR(1g) = 0.145 W/kg; SAR(10g) = 0.0766 W/kg**
Maximum value of SAR (interpolated) = 0.259 W/kg




0 dB = 0.181 W/kg = -7.42 dBW/kg

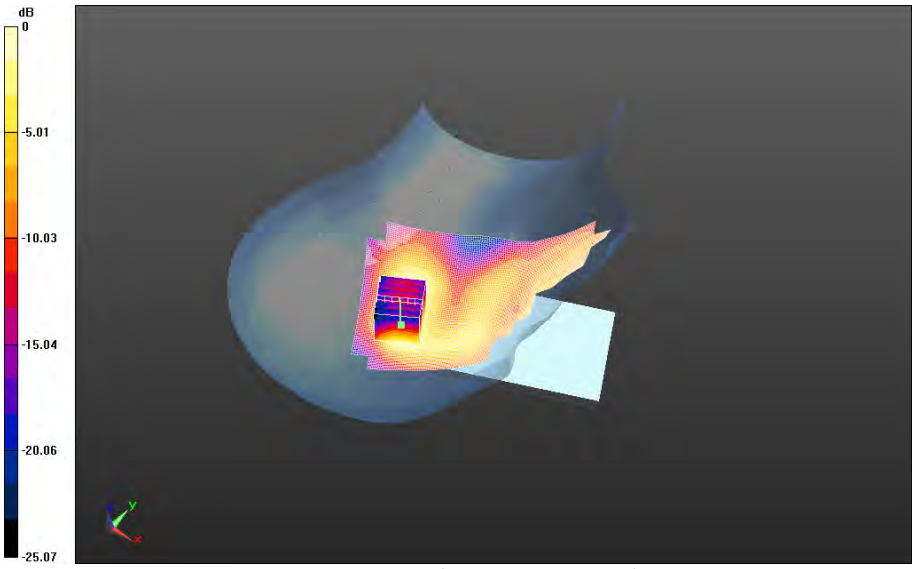
**Right-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.7C_liq_temp_21.5C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.184 W/kg

**Right-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.7C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.710 V/m; **Power Drift = 0.167 dB**

**Averaged SAR: SAR(1g) = 0.136 W/kg; SAR(10g) = 0.0696 W/kg**
Maximum value of SAR (interpolated) = 0.255 W/kg

**Right-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.7C_liq_temp_21.5C/Zoom Scan 2 (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.710 V/m; **Power Drift = 0.092 dB**

**Averaged SAR: SAR(1g) = 0.134 W/kg; SAR(10g) = 0.0691 W/kg**
Maximum value of SAR (interpolated) = 0.251 W/kg




0 dB = 0.168 W/kg = -7.75 dBW/kg

Date: 3/5/2015

Test Lab: BlackBerry RTS
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE80F6**

## Configuration: Left-Hand-Side HSL - LTE 7

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2510 MHz
Medium Parameters used: f=2510 MHz; $\sigma$ = 1.920 S/m; $\varepsilon_r$ = 40.113; $\rho$ = 1.000 g/cm$^3$
Phantom section: Left Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.4,4.4,4.4); Calibrated: 2/25/2015;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

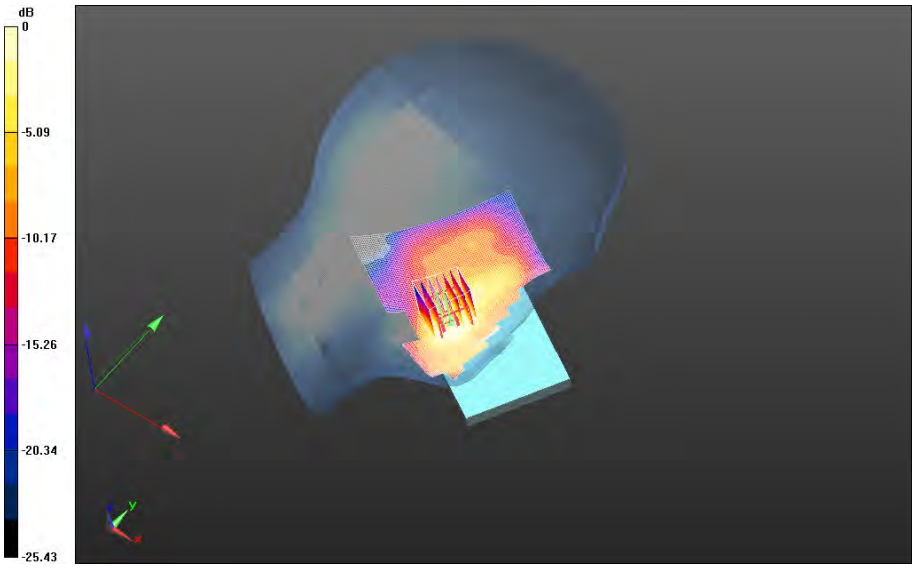
**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.8C_liq_temp_21.5C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.430 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.8C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.831 V/m; **Power Drift = -0.049 dB**

**Averaged SAR: SAR(1g) = 0.352 W/kg; SAR(10g) = 0.184 W/kg**
Maximum value of SAR (interpolated) = 0.646 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.8C_liq_temp_21.5C/Zoom Scan 2 (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.831 V/m; **Power Drift = 0.224 dB**

**Averaged SAR: SAR(1g) = 0.347 W/kg; SAR(10g) = 0.182 W/kg**
Maximum value of SAR (interpolated) = 0.635 W/kg

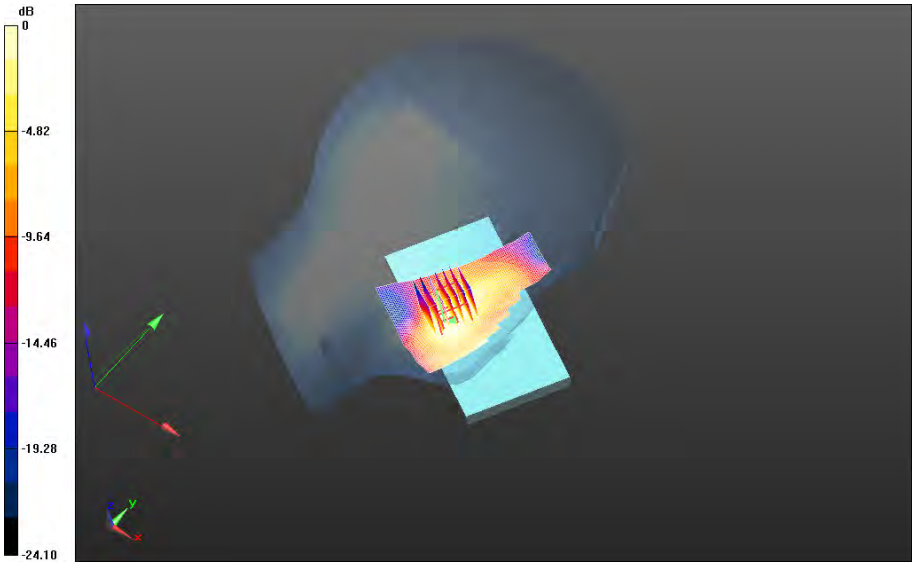



0 dB = 0.425 W/kg = -3.72 dBW/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan21100_20MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_21.5C/Area Scan (151x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.353 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan21100_20MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 5.015 V/m; **Power Drift = 0.297 dB**

**Averaged SAR: SAR(1g) = 0.279 W/kg; SAR(10g) = 0.147 W/kg**
Maximum value of SAR (interpolated) = 0.511 W/kg

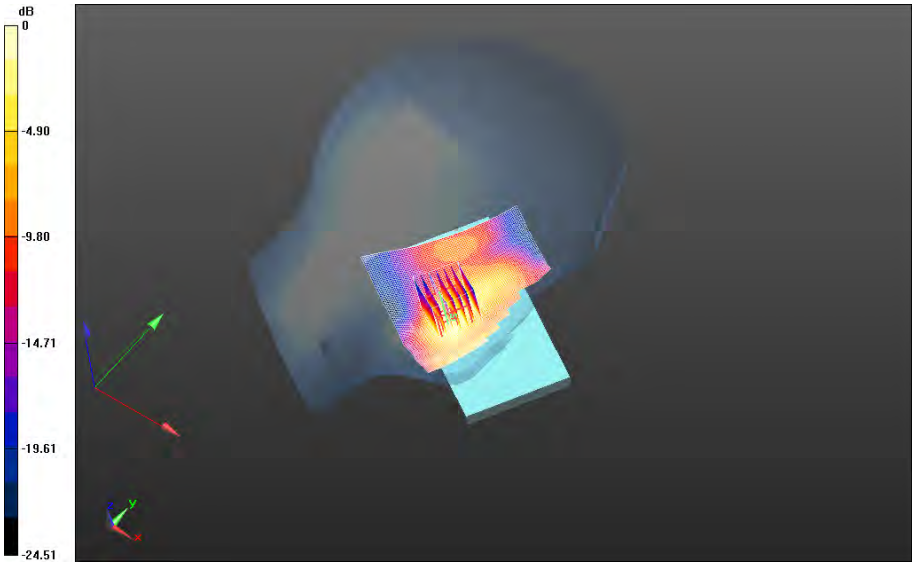



0 dB = 0.348 W/kg = -4.58 dBW/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan21350_20MHz_BW_RB1_Offset_Mid_amb_temp_23.6C_liq_temp_21.6C/Area Scan (151x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.327 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan21350_20MHz_BW_RB1_Offset_Mid_amb_temp_23.6C_liq_temp_21.6C/Zoom Scan (31x36x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.966 V/m; **Power Drift = 0.092 dB**

**Averaged SAR: SAR(1g) = 0.370 W/kg; SAR(10g) = 0.192 W/kg**
Maximum value of SAR (interpolated) = 0.676 W/kg

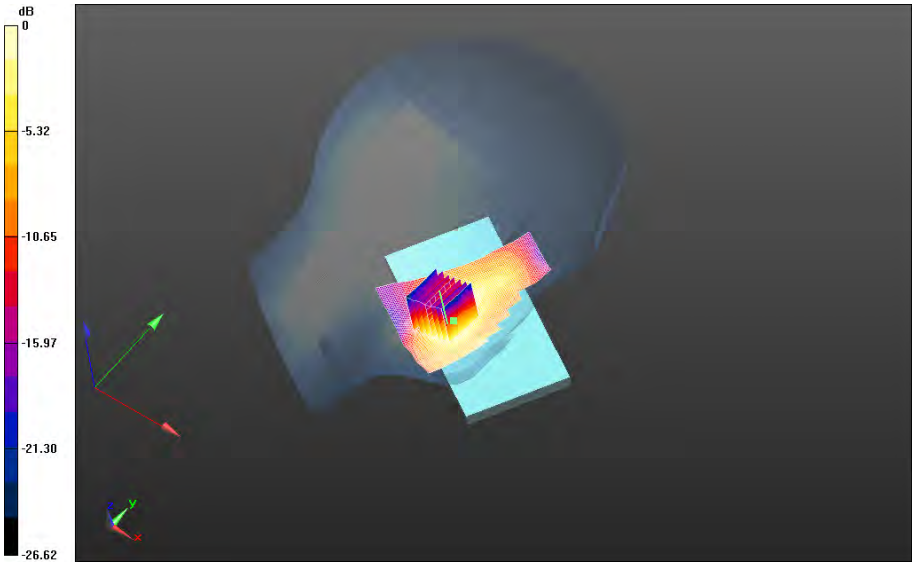



0 dB = 0.468 W/kg = -3.30 dBW/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB50_Offset_High_amb_temp_23.9C_liq_temp_21.5C/Area Scan (151x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.329 W/kg

**Left-Hand-Side HSL - LTE 7/Touch Position - LTE band 7_chan20850_20MHz_BW_RB50_Offset_High_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.101 V/m; **Power Drift = 0.185 dB**

**Averaged SAR: SAR(1g) = 0.256 W/kg; SAR(10g) = 0.133 W/kg**
Maximum value of SAR (interpolated) = 0.468 W/kg

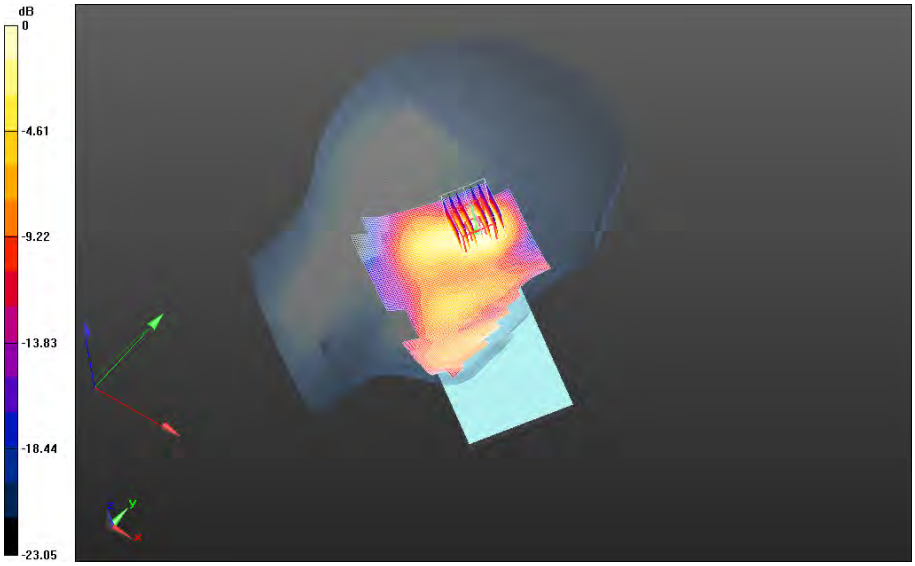



0 dB = 0.316 W/kg = -5.00 dBW/kg

**Left-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.5C/Area Scan (151x181x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.233 W/kg

**Left-Hand-Side HSL - LTE 7/Tilt Position - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.481 V/m; **Power Drift = -0.085 dB**

**Averaged SAR: SAR(1g) = 0.163 W/kg; SAR(10g) = 0.0841 W/kg**
Maximum value of SAR (interpolated) = 0.291 W/kg




0 dB = 0.203 W/kg = -6.93 dBW/kg