APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

LTE Band 17

Date: 5/12/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - LTE Band 17

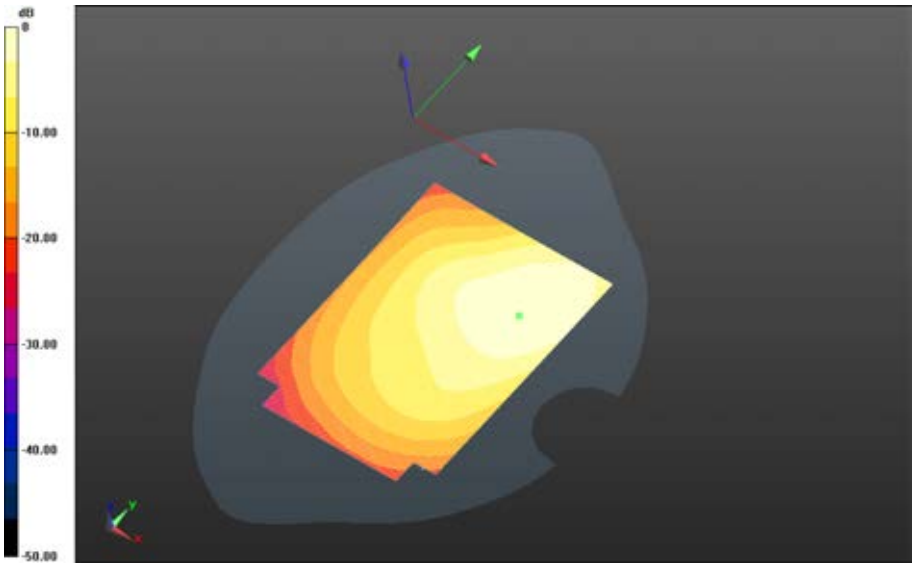
Communication System: LTE band 17 (0); Communication System Band: LTE 17; Frequency: 709 MHz
Medium Parameters used: f=709 MHz; σ = 0.918 S/m; ε_r = 54.760; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23780_10MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.100 V/m; **Power Drift = 0.056 dB**

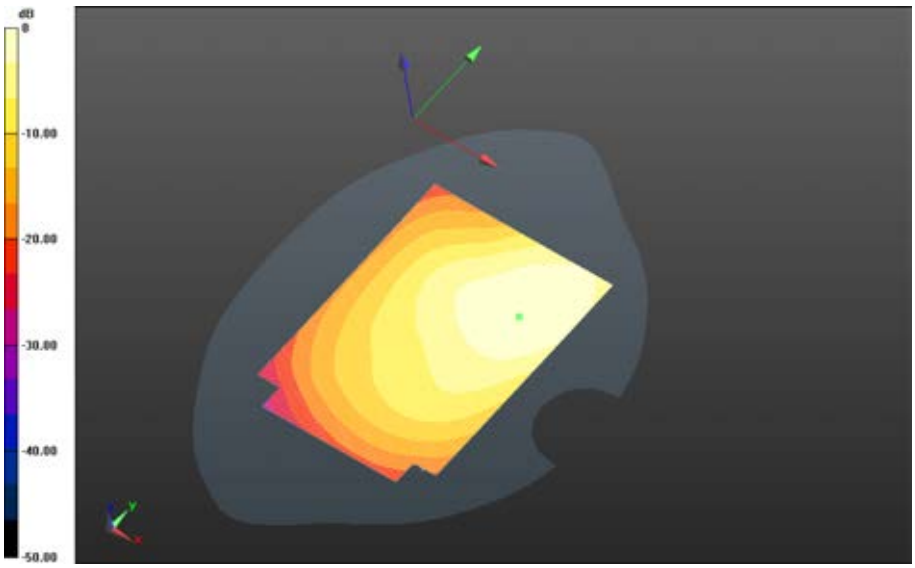
Fast SAR: SAR(1g) = 0.164 W/kg; SAR(10g) = 0.112 W/kg
Maximum value of SAR (interpolated) = 0.171 W/kg



0 dB = 0.171 W/kg = -7.67 dBW/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23790_10MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.158 V/m; **Power Drift = -0.022 dB**

Fast SAR: SAR(1g) = 0.163 W/kg; SAR(10g) = 0.111 W/kg
Maximum value of SAR (interpolated) = 0.170 W/kg



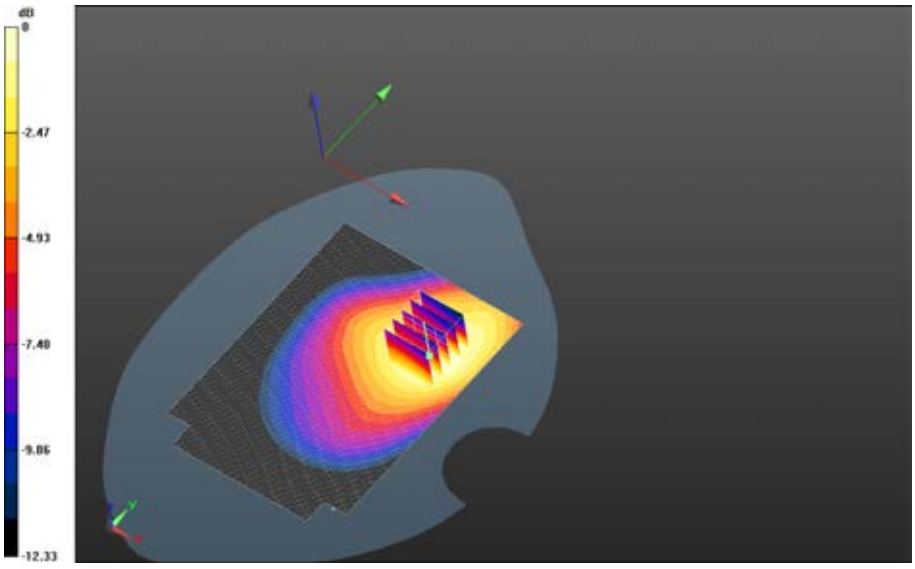
0 dB = 0.171 W/kg = -7.67 dBW/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23800_10MHz_BW_RB1_Offset_High_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.412 V/m; **Power Drift = -0.035 dB**

Fast SAR: SAR(1g) = 0.172 W/kg; SAR(10g) = 0.117 W/kg
Maximum value of SAR (interpolated) = 0.179 W/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23800_10MHz_BW_RB1_Offset_High_amb_temp_24.0C_liq_temp_22.4C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.412 V/m; **Power Drift = -0.035 dB**

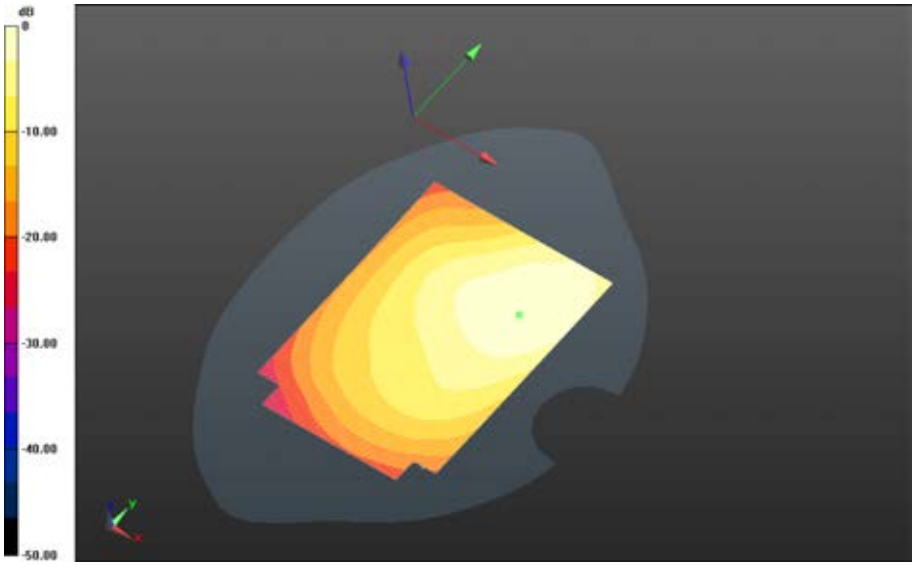
Averaged SAR: SAR(1g) = 0.168 W/kg; SAR(10g) = 0.112 W/kg
Maximum value of SAR (interpolated) = 0.238 W/kg



0 dB = 0.170 W/kg = -7.70 dBW/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band 17_chan23780_10MHz_BW_RB25_Offset_High_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.384 V/m; **Power Drift = 0.040 dB**

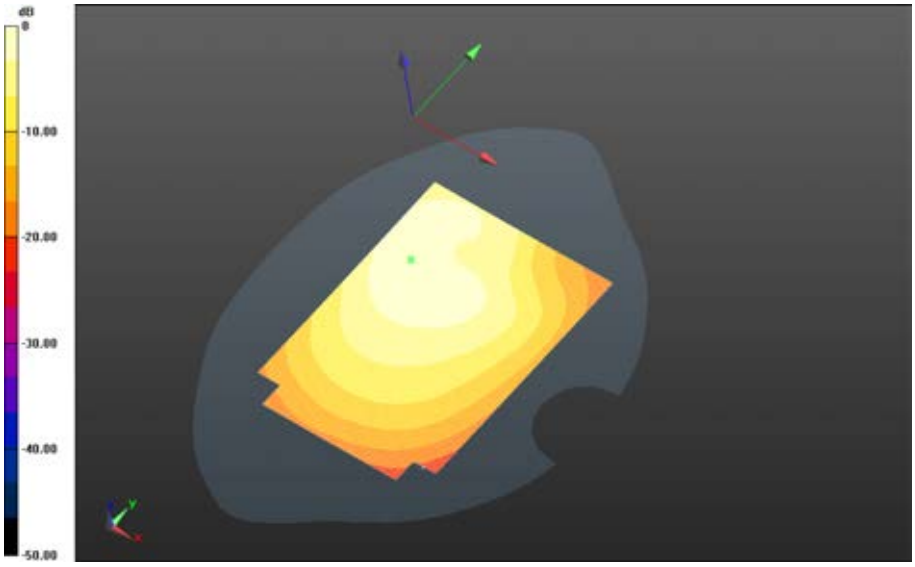
Fast SAR: SAR(1g) = 0.130 W/kg; SAR(10g) = 0.0883 W/kg
Maximum value of SAR (interpolated) = 0.135 W/kg



0 dB = 0.174 W/kg = -7.59 dBW/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Front- LTE band 17_chan23800_10MHz_BW_RB1_Offset_High_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.286 V/m; **Power Drift = 0.034 dB**

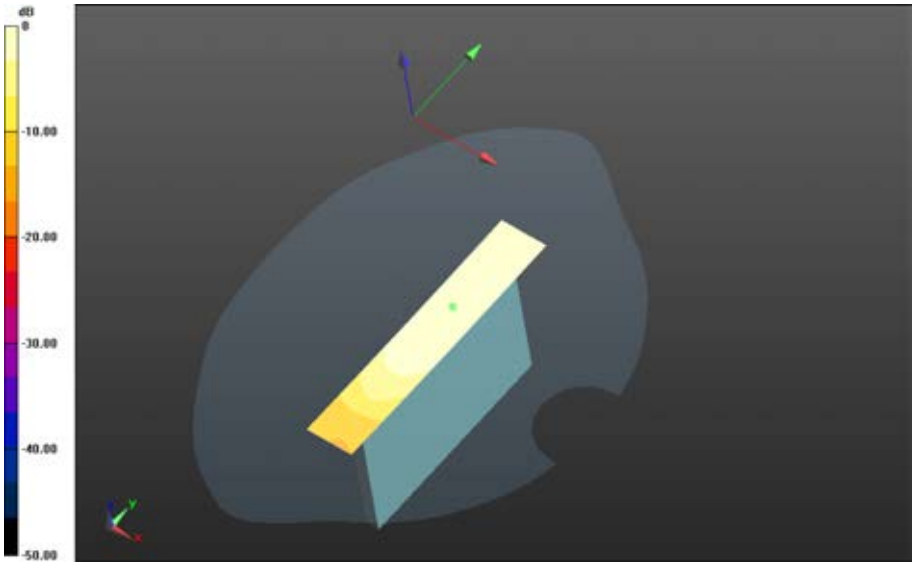
Fast SAR: SAR(1g) = 0.109 W/kg; SAR(10g) = 0.0745 W/kg
Maximum value of SAR (interpolated) = 0.113 W/kg



0 dB = 0.135 W/kg = -8.70 dBW/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Left -LTE band 17_chan23800_10MHz_BW_RB1_Offset_High_amb_temp_24.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.102 V/m; **Power Drift = -0.161 dB**

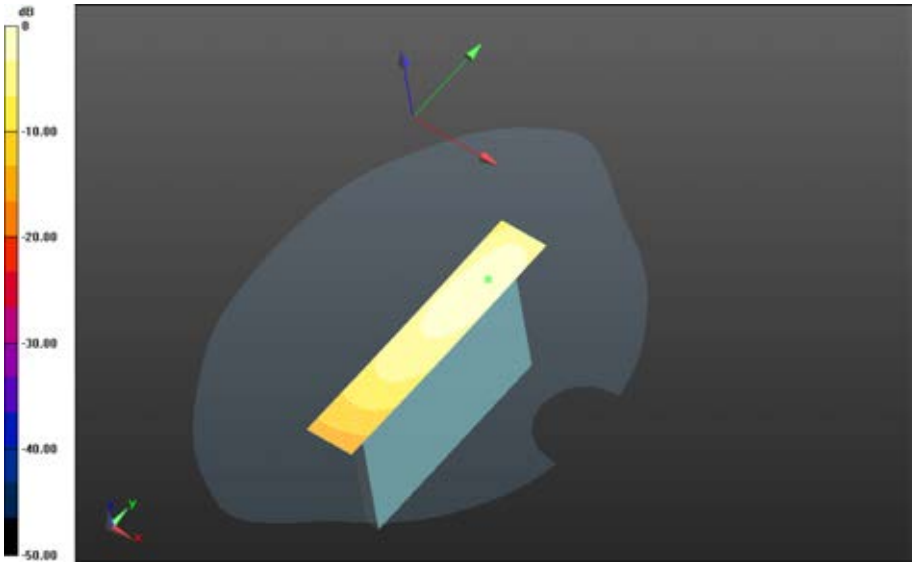
Fast SAR: SAR(1g) = 0.0149 W/kg; SAR(10g) = 0.0105 W/kg
Maximum value of SAR (interpolated) = 0.0153 W/kg



0 dB = 0.113 W/kg = -9.47 dBW/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Right - LTE band 17_chan23800_10MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.629 V/m; **Power Drift = -0.036 dB**

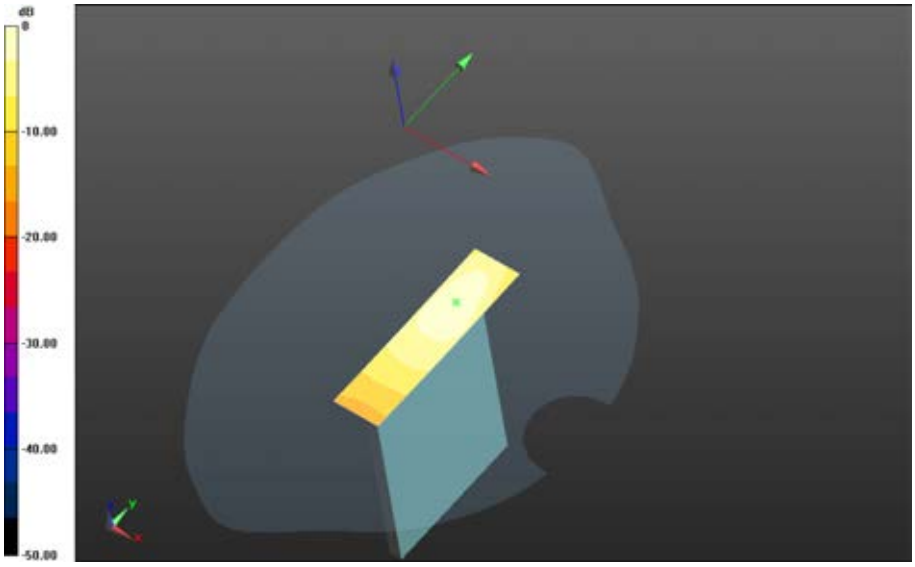
Fast SAR: SAR(1g) = 0.119 W/kg; SAR(10g) = 0.0755 W/kg
Maximum value of SAR (interpolated) = 0.128 W/kg



0 dB = 0.0153 W/kg = -18.15 dBW/kg

Mobile Hot Spot MSL - LTE Band 17/10mm Device Bottom -LTE band 17_chan23800_10MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.458 V/m; **Power Drift = 0.015 dB**

Fast SAR: SAR(1g) = 0.152 W/kg; SAR(10g) = 0.0907 W/kg
Maximum value of SAR (interpolated) = 0.166 W/kg



0 dB = 0.128 W/kg = -8.93 dBW/kg

LTE Band 13

Date: 5/9/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - LTE Band 13

Communication System: LTE band 13 (0); Communication System Band: LTE band 13; Frequency: 782 MHz
Medium Parameters used: f=782 MHz; σ = 0.986 S/m; ε_r = 54.018; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

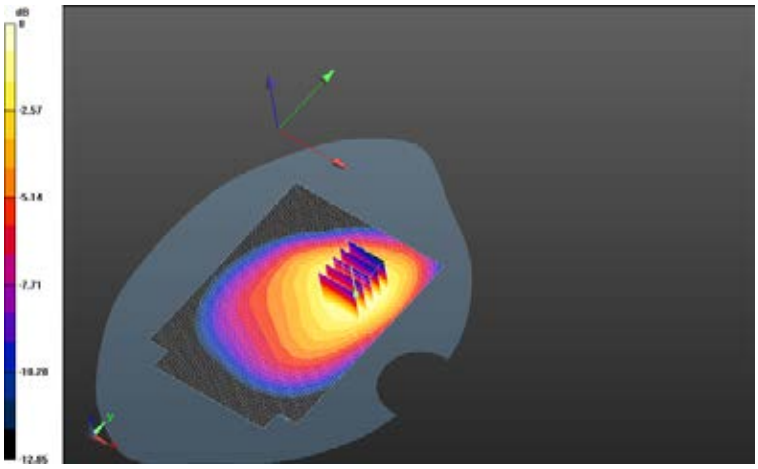
- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 13/10mm Device Back - LTE band 13_chan23230_10MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.307 V/m; **Power Drift = -0.019 dB**

Fast SAR: SAR(1g) = 0.489 W/kg; SAR(10g) = 0.331 W/kg
Maximum value of SAR (interpolated) = 0.528 W/kg

Mobile Hot Spot MSL - LTE Band 13/10mm Device Back - LTE band 13_chan23230_10MHz_BW_RB1_Offset_High_amb_temp_23.9C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 15.307 V/m; **Power Drift = -0.019 dB**

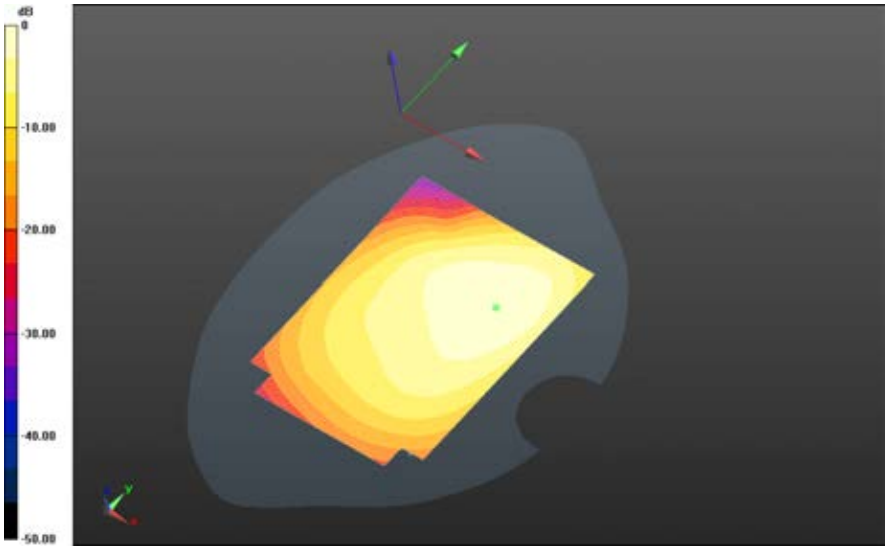
Averaged SAR: SAR(1g) = 0.486 W/kg; SAR(10g) = 0.325 W/kg
Maximum value of SAR (interpolated) = 0.714 W/kg



0 dB = 0.525 W/kg = -2.80 dBW/kg

Mobile Hot Spot MSL - LTE Band 13/10mm Device Back - LTE band 13_chan23230_10MHz_BW_RB25_Offset_High_amb_temp_23.7C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.524 V/m; **Power Drift = 0.032 dB**

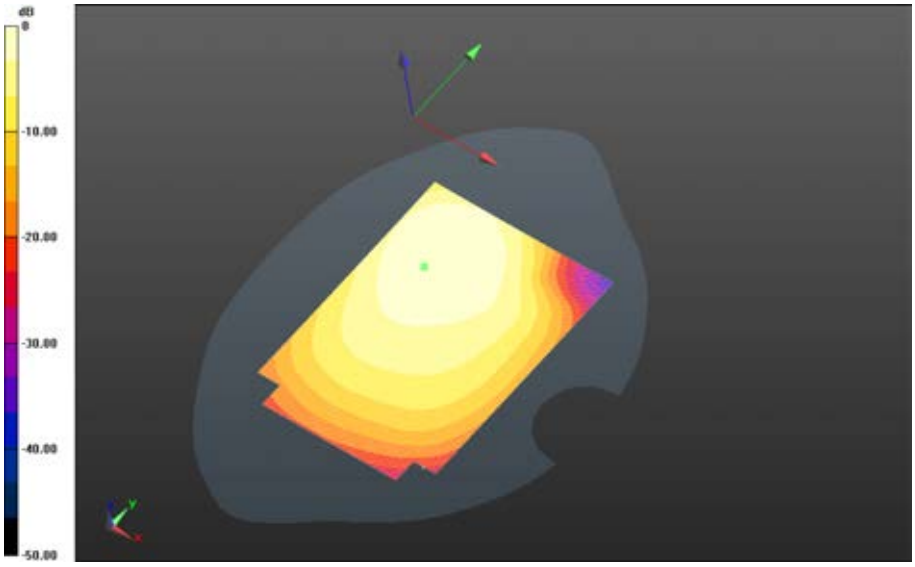
Fast SAR: SAR(1g) = 0.391 W/kg; SAR(10g) = 0.264 W/kg
Maximum value of SAR (interpolated) = 0.423 W/kg



0 dB = 0.525 W/kg = -2.80 dBW/kg

Mobile Hot Spot MSL - LTE Band 13/10mm Device Front- LTE band 13_chan23230_10MHz_BW_RB1_Offset_High_amb_temp_23.3C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.925 V/m; **Power Drift = -0.083 dB**

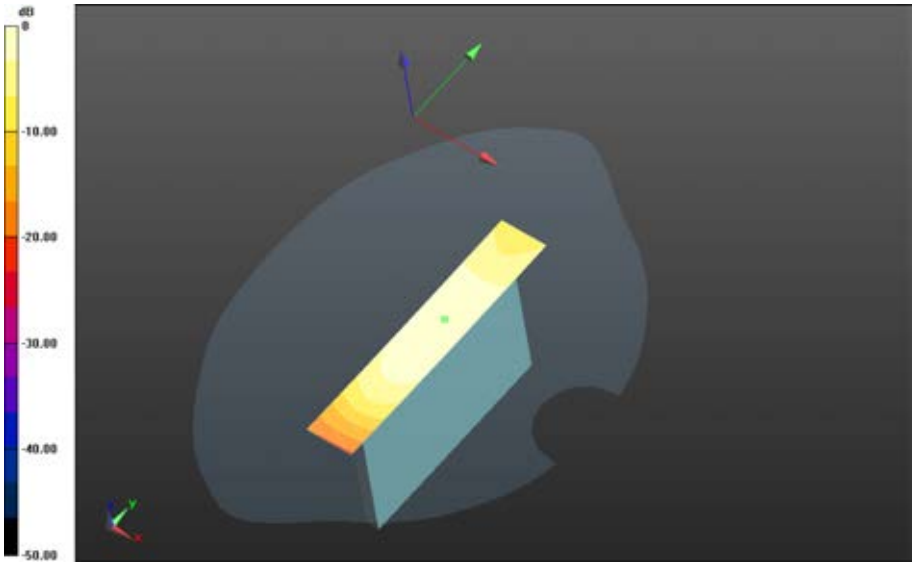
Fast SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.286 W/kg
Maximum value of SAR (interpolated) = 0.457 W/kg



0 dB = 0.423 W/kg = -3.74 dBW/kg

Mobile Hot Spot MSL - LTE Band 13/10mm Device Left -LTE band 13_chan23230_10MHz_BW_RB1_Offset_High_amb_temp_23.2C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.574 V/m; **Power Drift = 0.016 dB**

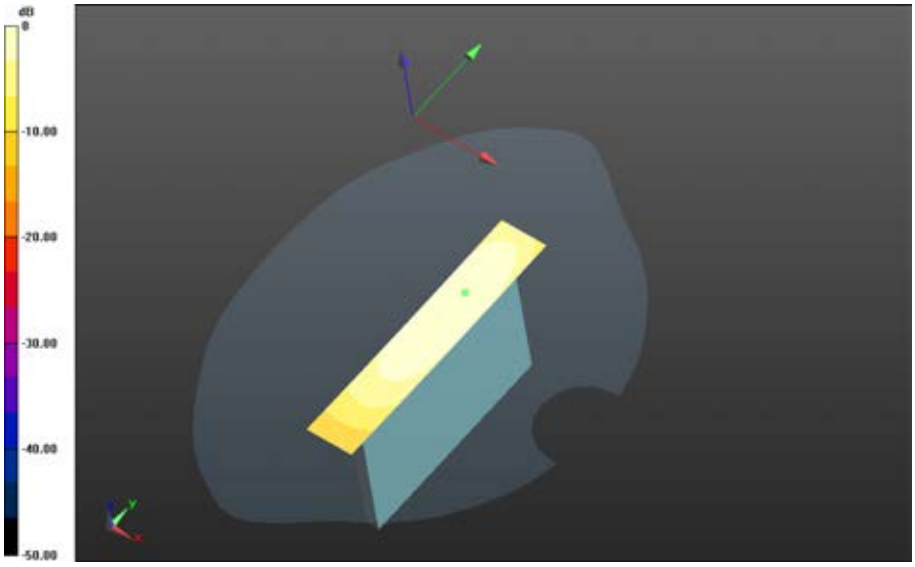
Fast SAR: SAR(1g) = 0.0985 W/kg; SAR(10g) = 0.0677 W/kg
Maximum value of SAR (interpolated) = 0.105 W/kg



0 dB = 0.457 W/kg = -3.40 dBW/kg

Mobile Hot Spot MSL - LTE Band 13/10mm Device Right - LTE band 13_chan23230_10MHz_BW_RB1_Offset_High_amb_temp_23.2C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.777 V/m; **Power Drift = -0.044 dB**

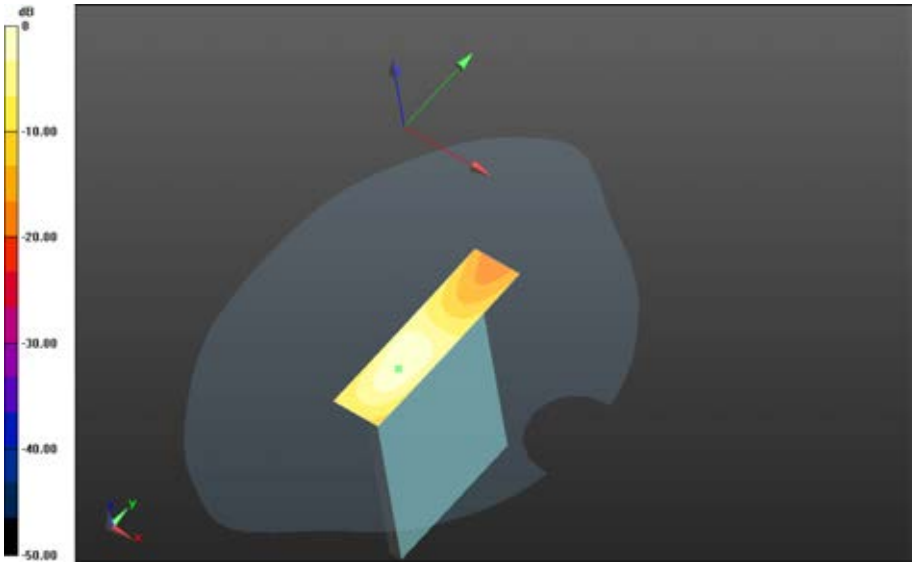
Fast SAR: SAR(1g) = 0.254 W/kg; SAR(10g) = 0.169 W/kg
Maximum value of SAR (interpolated) = 0.273 W/kg



0 dB = 0.105 W/kg = -9.79 dBW/kg

Mobile Hot Spot MSL - LTE Band 13/10mm Device Bottom -LTE band 13_chan23230_10MHz_BW_RB1_Offset_High_amb_temp_23.7C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.851 V/m; **Power Drift = 0.013 dB**

Fast SAR: SAR(1g) = 0.203 W/kg; SAR(10g) = 0.118 W/kg
Maximum value of SAR (interpolated) = 0.233 W/kg



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

LTE Band 5

Date: 5/5/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - LTE Band 5

Communication System: LTE 5 (0); Communication System Band: LTE 5; Frequency: 829 MHz
Medium Parameters used: f=829 MHz; σ = 0.985 S/m; ε_r = 53.941; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

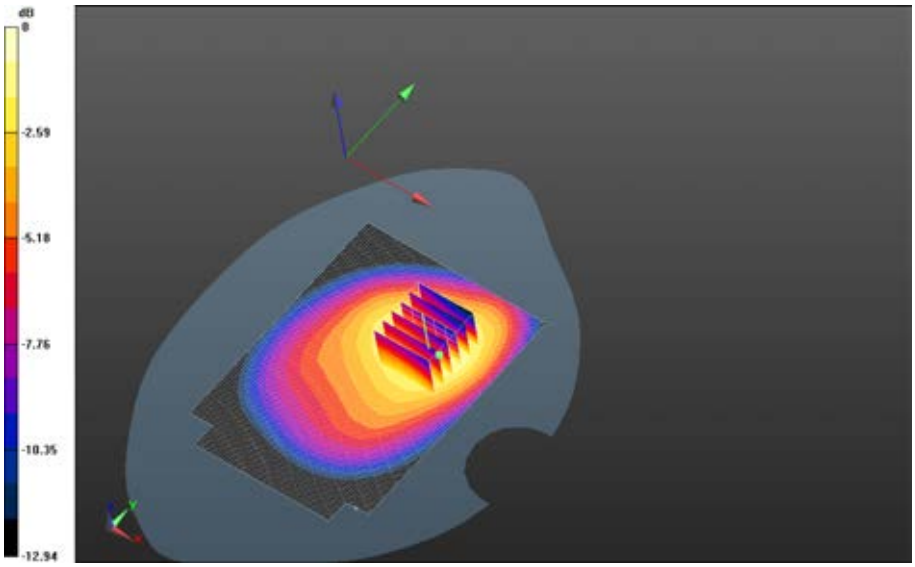
- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20450_10MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.391 V/m; **Power Drift = -0.139 dB**

Fast SAR: SAR(1g) = 0.572 W/kg; SAR(10g) = 0.390 W/kg
Maximum value of SAR (interpolated) = 0.617 W/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20450_10MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_22.5C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 17.391 V/m; **Power Drift = -0.139 dB**

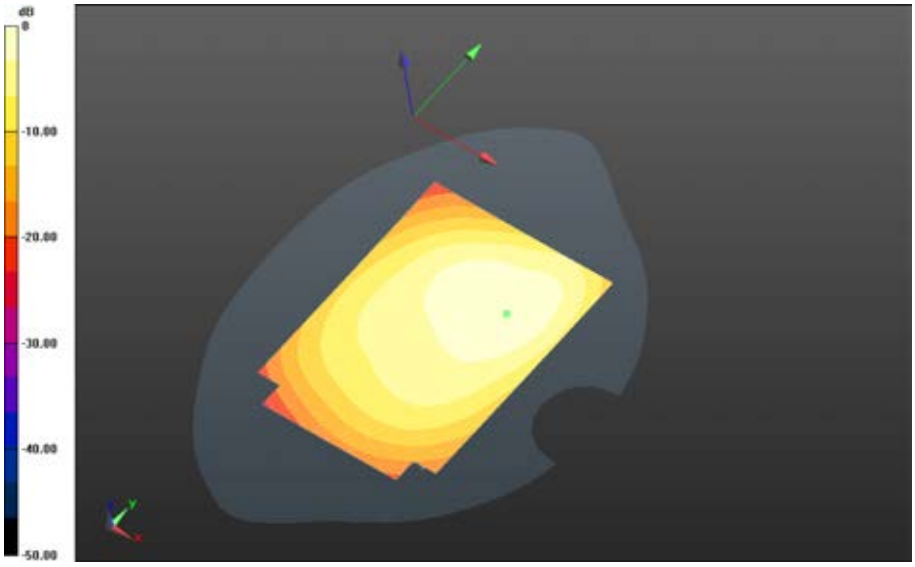
Averaged SAR: SAR(1g) = 0.595 W/kg; SAR(10g) = 0.409 W/kg
Maximum value of SAR (interpolated) = 0.868 W/kg



0 dB = 0.635 W/kg = -1.97 dBW/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20525_10MHz_BW_RB1_Offset_Low_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.787 V/m; **Power Drift = 0.033 dB**

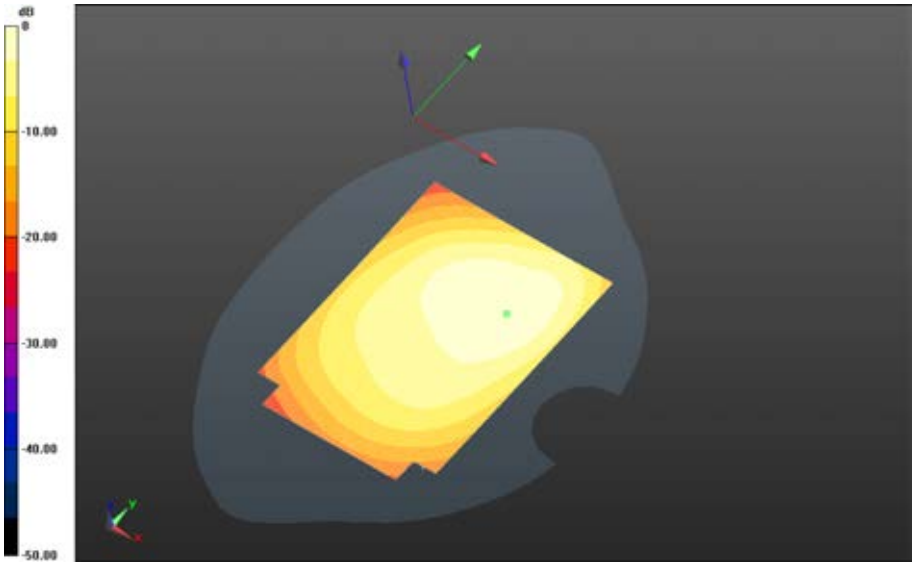
Fast SAR: SAR(1g) = 0.565 W/kg; SAR(10g) = 0.385 W/kg
Maximum value of SAR (interpolated) = 0.608 W/kg



0 dB = 0.635 W/kg = -1.97 dBW/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20600_10MHz_BW_RB1_Offset_Low_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.882 V/m; **Power Drift = 0.024 dB**

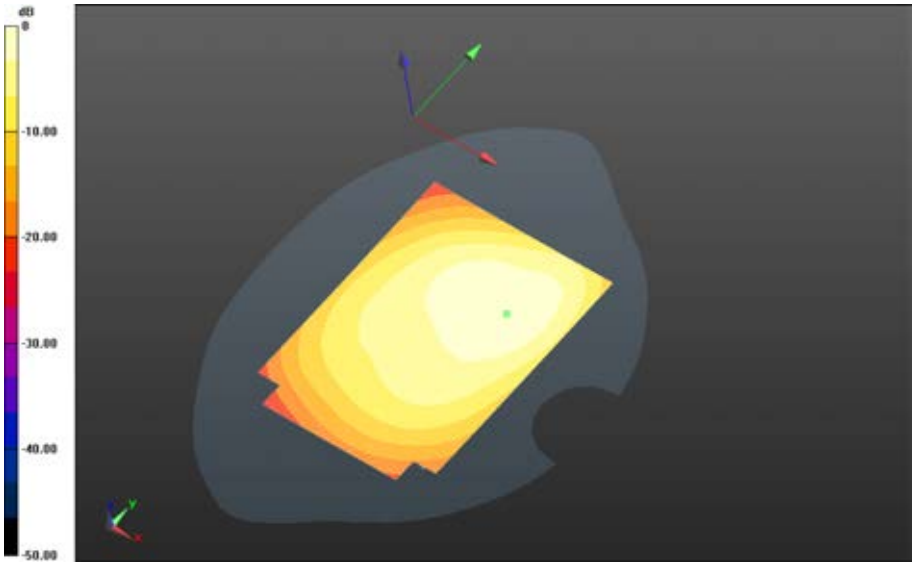
Fast SAR: SAR(1g) = 0.554 W/kg; SAR(10g) = 0.379 W/kg
Maximum value of SAR (interpolated) = 0.595 W/kg



0 dB = 0.608 W/kg = -2.16 dBW/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band 5_chan20450_10MHz_BW_RB25_Offset_High_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.285 V/m; **Power Drift = -0.00252 dB**

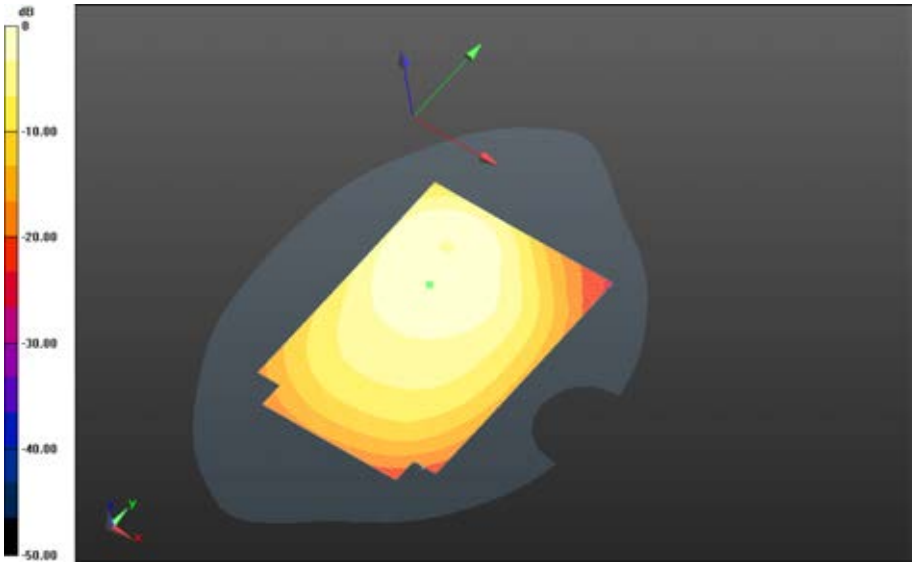
Fast SAR: SAR(1g) = 0.462 W/kg; SAR(10g) = 0.314 W/kg
Maximum value of SAR (interpolated) = 0.500 W/kg



0 dB = 0.595 W/kg = -2.25 dBW/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Front- LTE band 5_chan20450_10MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.823 V/m; **Power Drift = 0.052 dB**

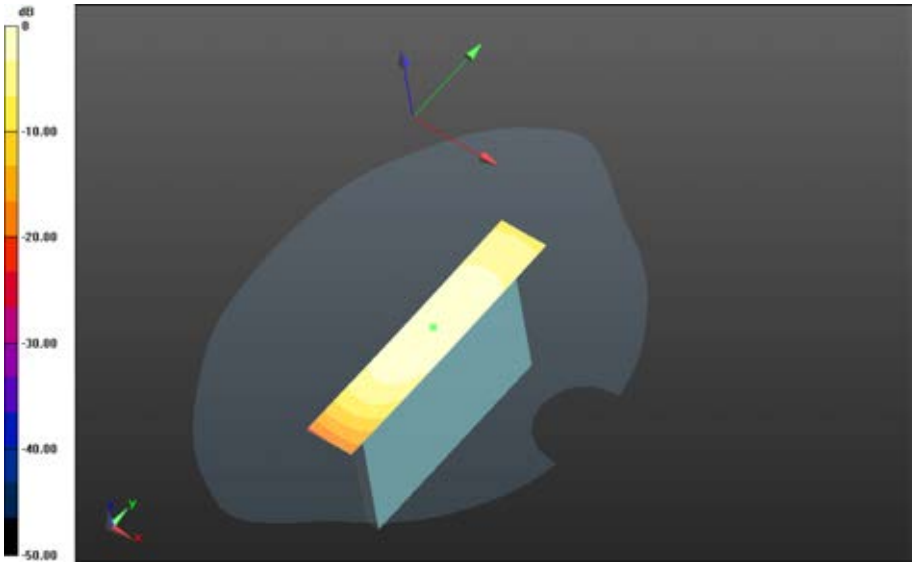
Fast SAR: SAR(1g) = 0.504 W/kg; SAR(10g) = 0.347 W/kg
Maximum value of SAR (interpolated) = 0.536 W/kg



0 dB = 0.500 W/kg = -3.01 dBW/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Left - LTE band 5_chan20450_10MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.488 V/m; **Power Drift = -0.133 dB**

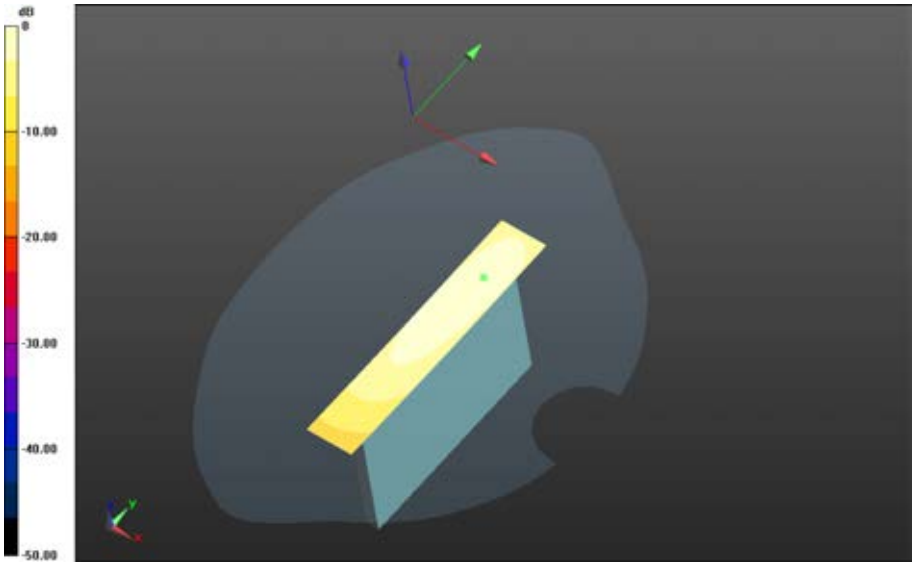
Fast SAR: SAR(1g) = 0.207 W/kg; SAR(10g) = 0.140 W/kg
Maximum value of SAR (interpolated) = 0.222 W/kg



0 dB = 0.536 W/kg = -2.71 dBW/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Right - LTE band 5_chan20450_10MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.528 V/m; **Power Drift = -0.109 dB**

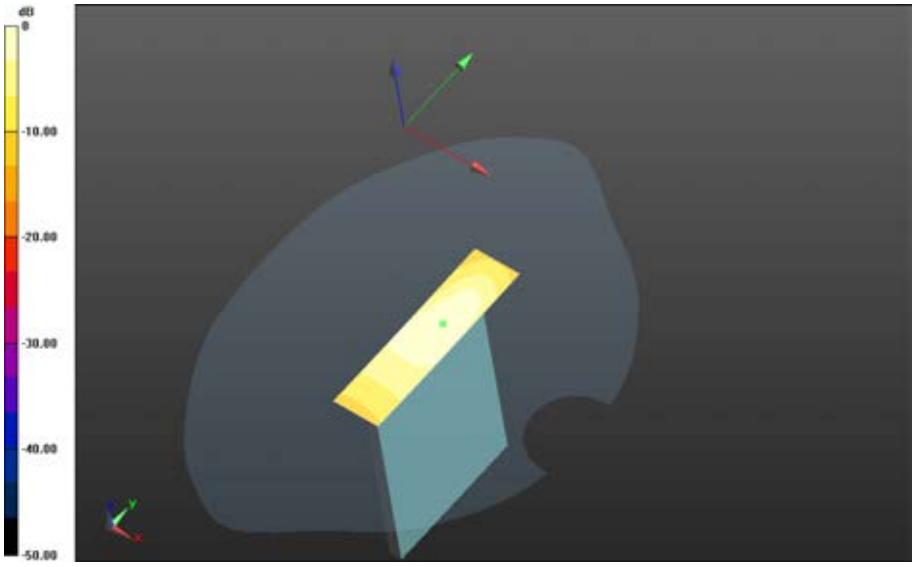
Fast SAR: SAR(1g) = 0.204 W/kg; SAR(10g) = 0.128 W/kg
Maximum value of SAR (interpolated) = 0.224 W/kg



0 dB = 0.222 W/kg = -6.54 dBW/kg

Mobile Hot Spot MSL - LTE Band 5/10mm Device Bottom - LTE band 5_chan20450_10MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.895 V/m; **Power Drift = -0.058 dB**

Fast SAR: SAR(1g) = 0.293 W/kg; SAR(10g) = 0.180 W/kg
Maximum value of SAR (interpolated) = 0.324 W/kg



0 dB = 0.224 W/kg = -6.50 dBW/kg

EDGE/GPRS 850

Date: 5/5/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GSM 850 (0); Communication System Band: GSM 850; Frequency: 824.2 MHz
Medium Parameters used: f=825 MHz; σ = 0.982 S/m; ε_r = 53.971; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

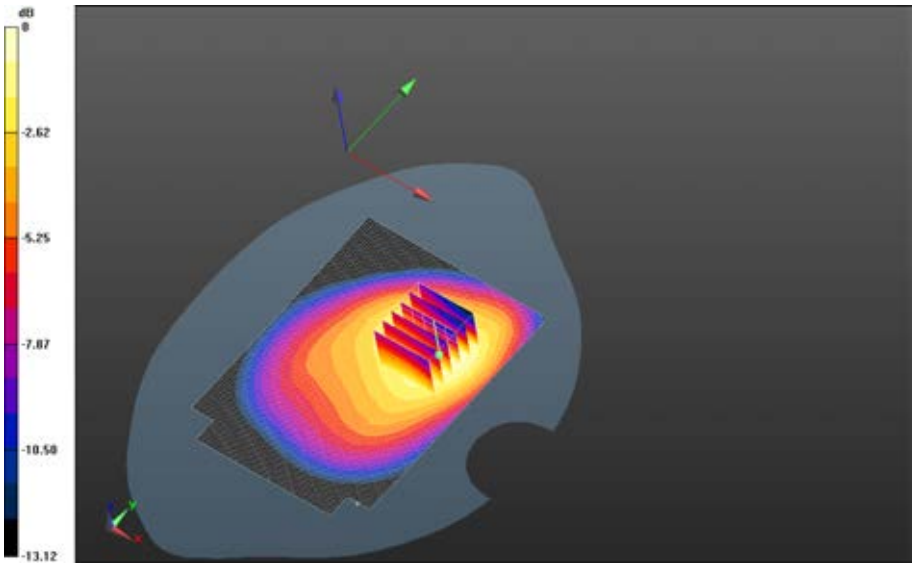
- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GSM 850_1-Slot_chan128_amb_temp_24.1C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.267 V/m; **Power Drift = -0.00802 dB**

Fast SAR: SAR(1g) = 0.622 W/kg; SAR(10g) = 0.425 W/kg
Maximum value of SAR (interpolated) = 0.667 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GSM 850_1-Slot_chan128_amb_temp_24.1C_liq_temp_21.9C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 18.267 V/m; **Power Drift = -0.00802 dB**

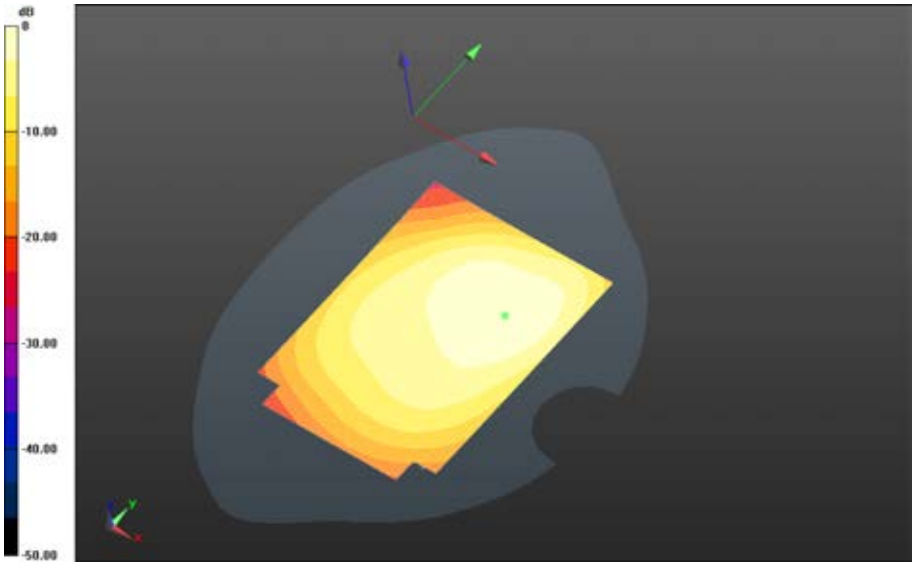
Averaged SAR: SAR(1g) = 0.625 W/kg; SAR(10g) = 0.429 W/kg
Maximum value of SAR (interpolated) = 0.911 W/kg



0 dB = 0.667 W/kg = -1.76 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GSM 850_1-Slot_chan190_amb_temp_24.2C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.790 V/m; **Power Drift = -0.133 dB**

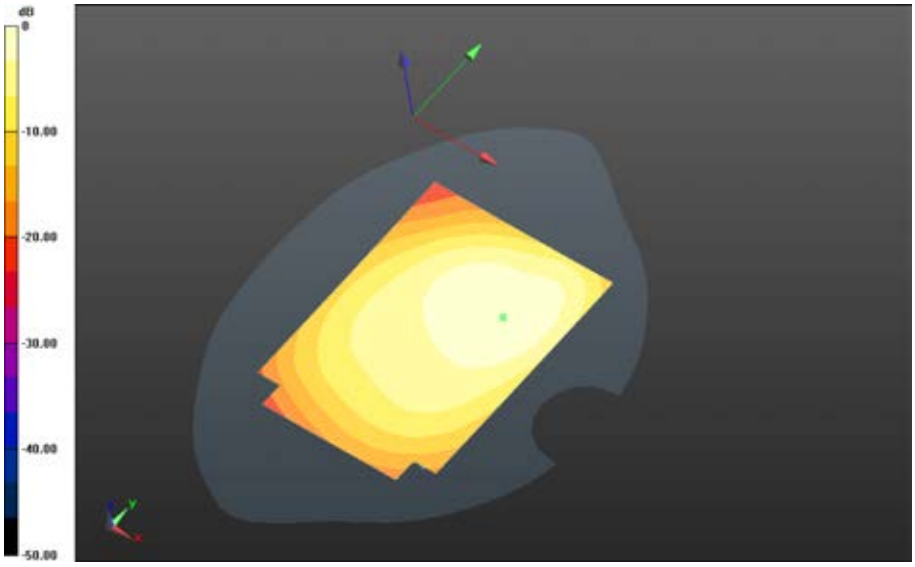
Fast SAR: SAR(1g) = 0.600 W/kg; SAR(10g) = 0.409 W/kg
Maximum value of SAR (interpolated) = 0.645 W/kg



0 dB = 0.667 W/kg = -1.76 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GSM 850_1-Slot_chan251_amb_temp_24.1C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.844 V/m; **Power Drift = 0.00407 dB**

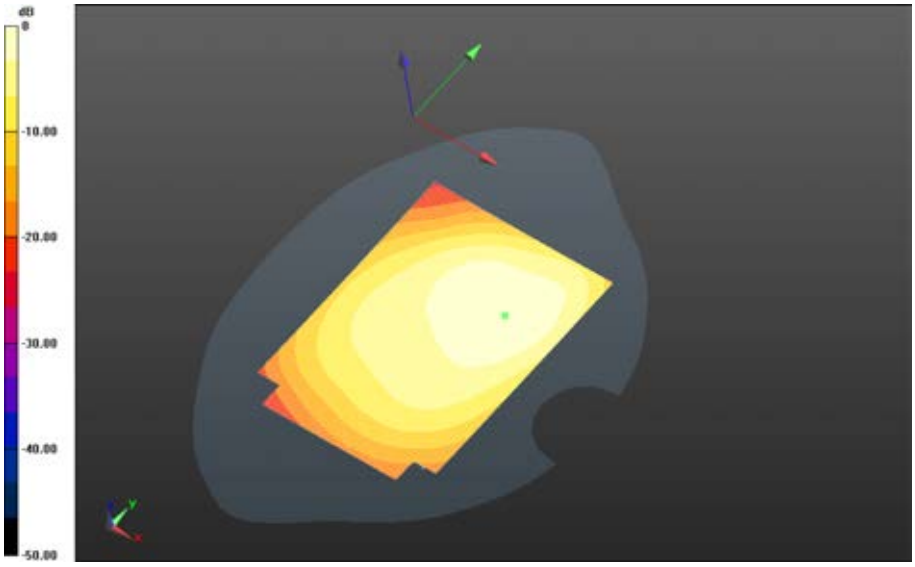
Fast SAR: SAR(1g) = 0.540 W/kg; SAR(10g) = 0.371 W/kg
Maximum value of SAR (interpolated) = 0.573 W/kg



0 dB = 0.645 W/kg = -1.90 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_2-Slot_chan190_amb_temp_24.1C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.375 V/m; **Power Drift = -0.189 dB**

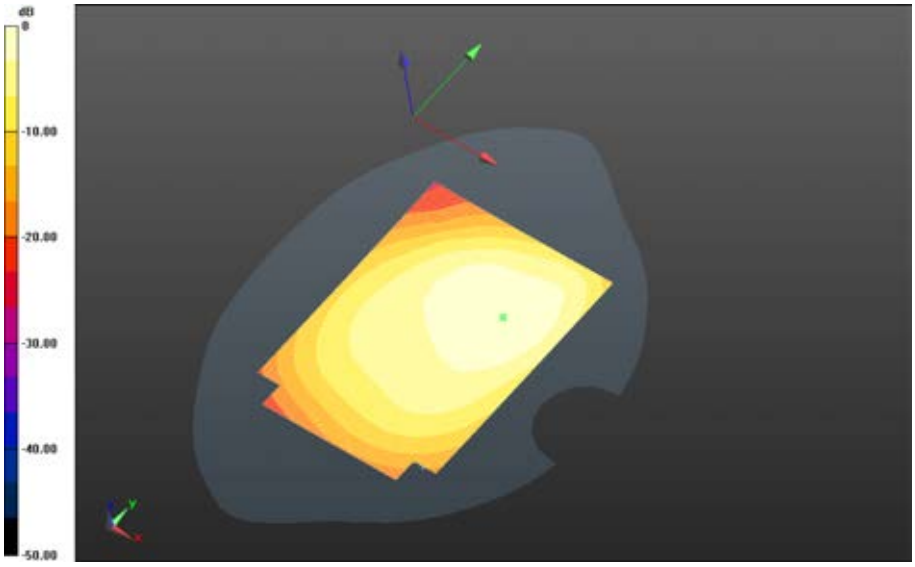
Fast SAR: SAR(1g) = 0.504 W/kg; SAR(10g) = 0.344 W/kg
Maximum value of SAR (interpolated) = 0.541 W/kg



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

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-Slot_chan190_amb_temp_23.8C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.373 V/m; **Power Drift = 0.056 dB**

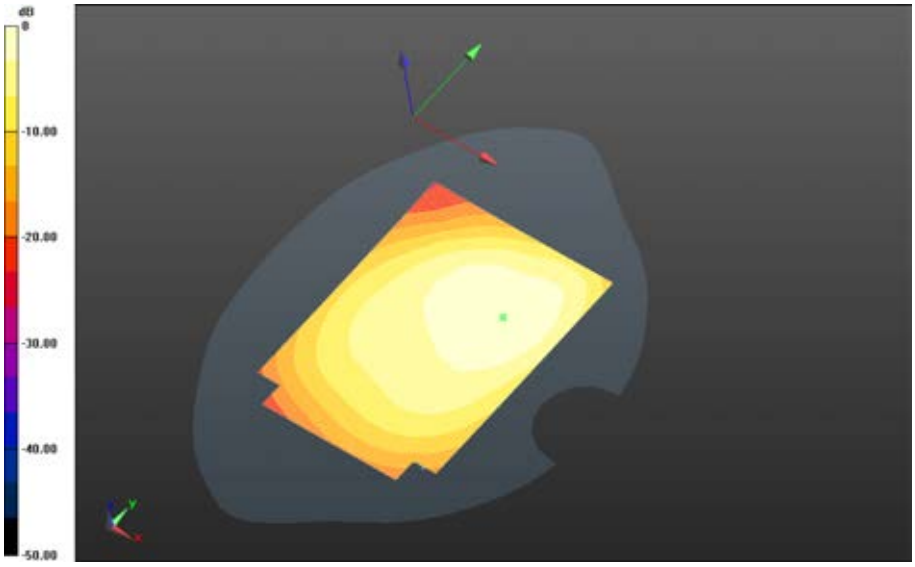
Fast SAR: SAR(1g) = 0.566 W/kg; SAR(10g) = 0.388 W/kg
Maximum value of SAR (interpolated) = 0.604 W/kg



0 dB = 0.541 W/kg = -2.67 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_4-Slot_chan190_amb_temp_23.8C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.850 V/m; **Power Drift = -0.030 dB**

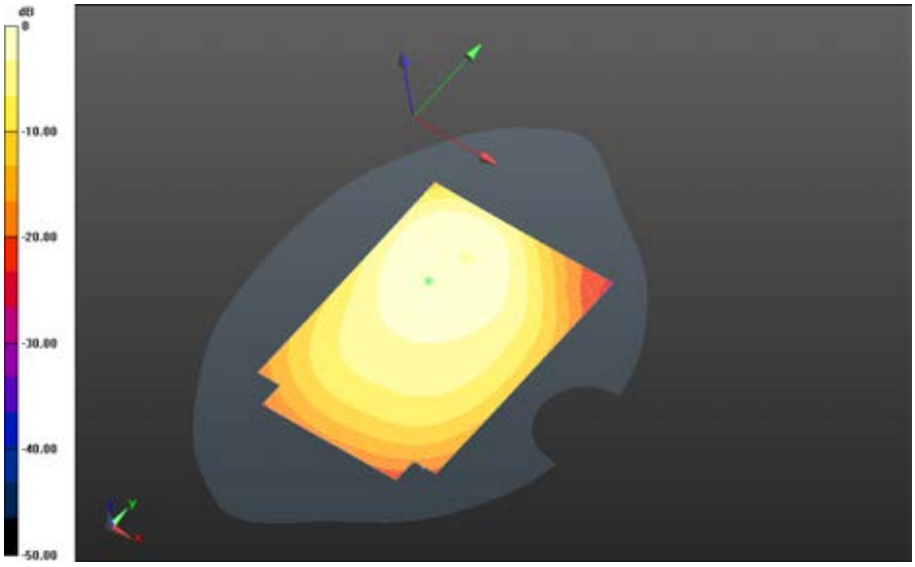
Fast SAR: SAR(1g) = 0.463 W/kg; SAR(10g) = 0.318 W/kg
Maximum value of SAR (interpolated) = 0.494 W/kg



0 dB = 0.604 W/kg = -2.19 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GSM 850_1-Slot_chan190_amb_temp_23.7C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.421 V/m; **Power Drift = 0.00487 dB**

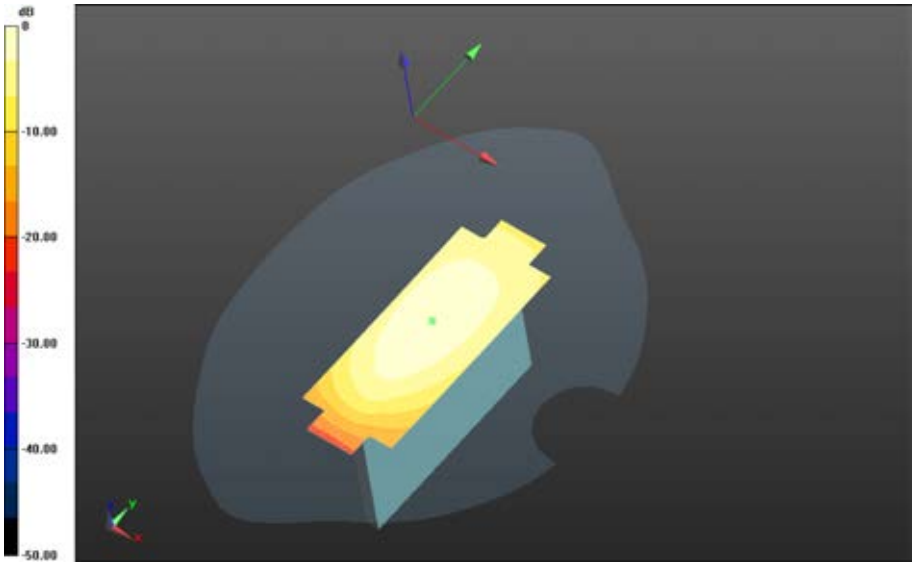
Fast SAR: SAR(1g) = 0.458 W/kg; SAR(10g) = 0.315 W/kg
Maximum value of SAR (interpolated) = 0.490 W/kg



0 dB = 0.494 W/kg = -3.06 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GSM 850_1-Slot_chan190_amb_temp_24.1C_liq_temp_21.9C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.670 V/m; **Power Drift = 0.034 dB**

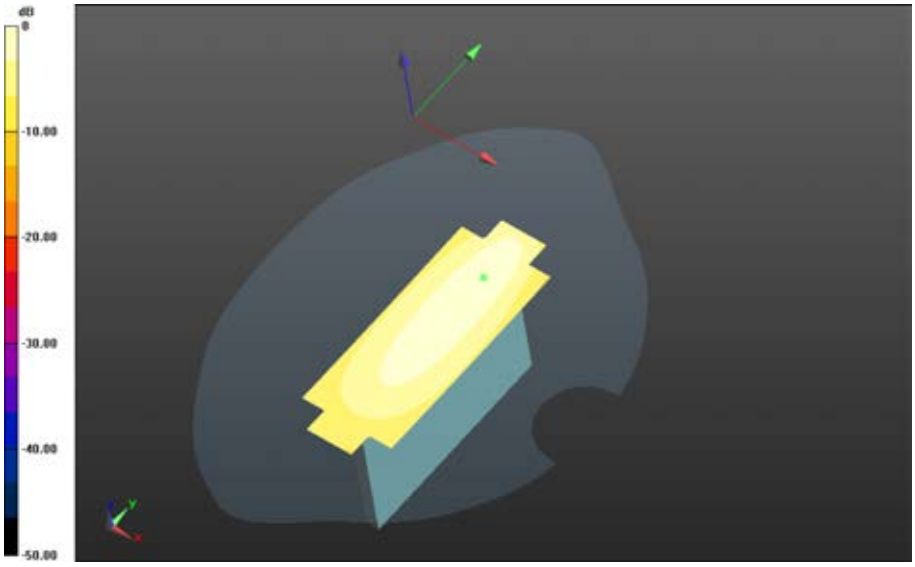
Fast SAR: SAR(1g) = 0.226 W/kg; SAR(10g) = 0.152 W/kg
Maximum value of SAR (interpolated) = 0.242 W/kg



0 dB = 0.490 W/kg = -3.10 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GSM 850_1-Slot_chan190_amb_temp_24.1C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.864 V/m; **Power Drift = 0.070 dB**

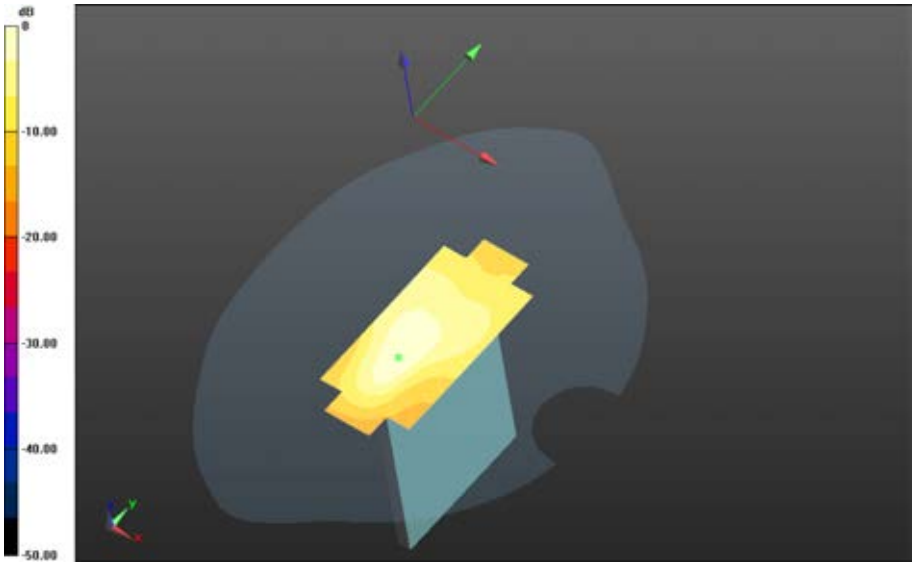
Fast SAR: SAR(1g) = 0.157 W/kg; SAR(10g) = 0.0983 W/kg
Maximum value of SAR (interpolated) = 0.175 W/kg



0 dB = 0.242 W/kg = -6.16 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GSM 850_1-Slot_chan190_amb_temp_24.1C_liq_temp_22.0C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.832 V/m; **Power Drift = -0.014 dB**

Fast SAR: SAR(1g) = 0.278 W/kg; SAR(10g) = 0.166 W/kg
Maximum value of SAR (interpolated) = 0.334 W/kg



0 dB = 0.175 W/kg = -7.57 dBW/kg

EDGE/GPRS 850 Rev 2

Date: 6/9/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF46F9

Configuration: Mobile Hot Spot MSL - GPRS 850 Rev 2

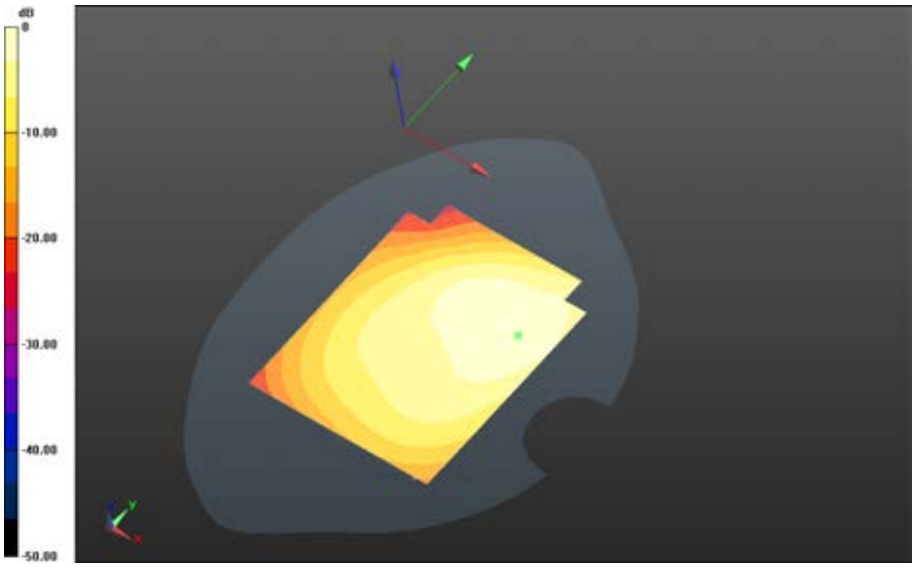
Communication System: GSM 850 (0); Communication System Band: GSM 850; Frequency: 836.8 MHz
Medium Parameters used: f=836.8 MHz; σ = 0.976 S/m; ε_r = 53.598; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - GPRS 850 Rev 2/10mm Device Back - GSM 850_1-Slot_chan190_amb_temp_24.2C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.392 V/m; **Power Drift = 0.012 dB**

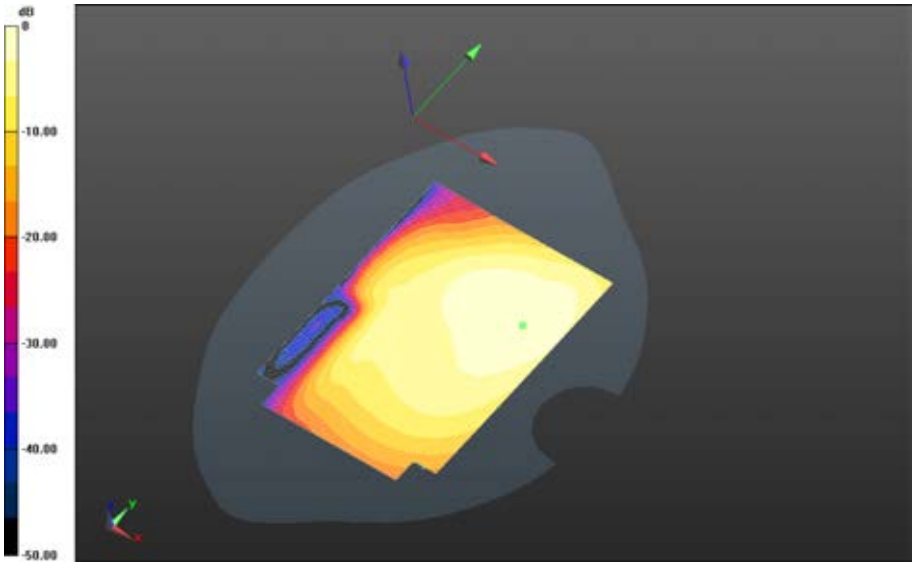
Fast SAR: SAR(1g) = 0.606 W/kg; SAR(10g) = 0.416 W/kg
Maximum value of SAR (interpolated) = 0.654 W/kg



0 dB = 0.654 W/kg = -1.84 dBW/kg

Mobile Hot Spot MSL - GPRS 850 Rev 2/10mm Device Back - GPRS 850_2-Slot_chan128_amb_temp_24.1C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.418 V/m; **Power Drift = -0.017 dB**

Fast SAR: SAR(1g) = 0.669 W/kg; SAR(10g) = 0.459 W/kg
Maximum value of SAR (interpolated) = 0.717 W/kg



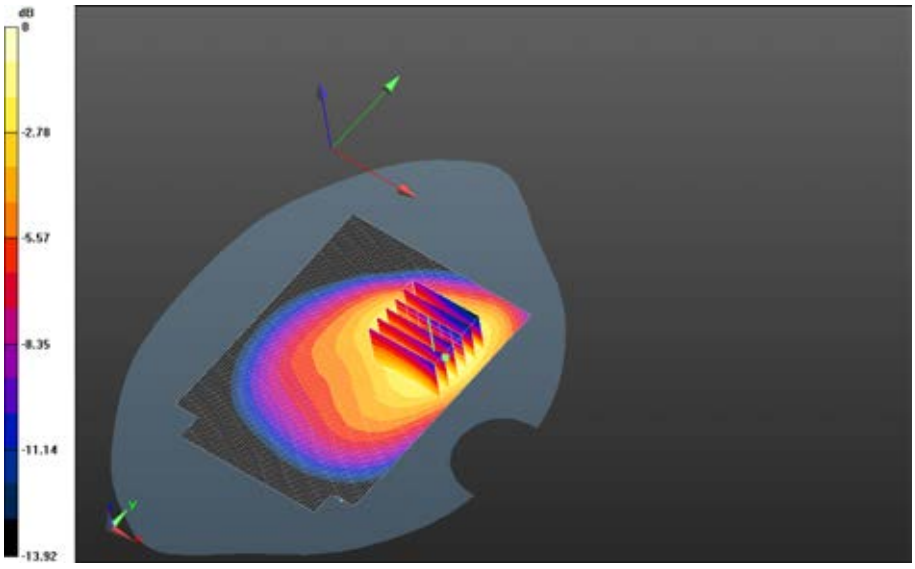
0 dB = 0.654 W/kg = -1.84 dBW/kg

Mobile Hot Spot MSL - GPRS 850 Rev 2/10mm Device Back - GPRS 850_3-Slot_chan128_amb_temp_23.8C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.454 V/m; **Power Drift = -0.00829 dB**

Fast SAR: SAR(1g) = 0.710 W/kg; SAR(10g) = 0.489 W/kg
Maximum value of SAR (interpolated) = 0.759 W/kg

Mobile Hot Spot MSL - GPRS 850 Rev 2/10mm Device Back - GPRS 850_3-Slot_chan128_amb_temp_23.8C_liq_temp_22.1C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 17.454 V/m; **Power Drift = -0.00829 dB**

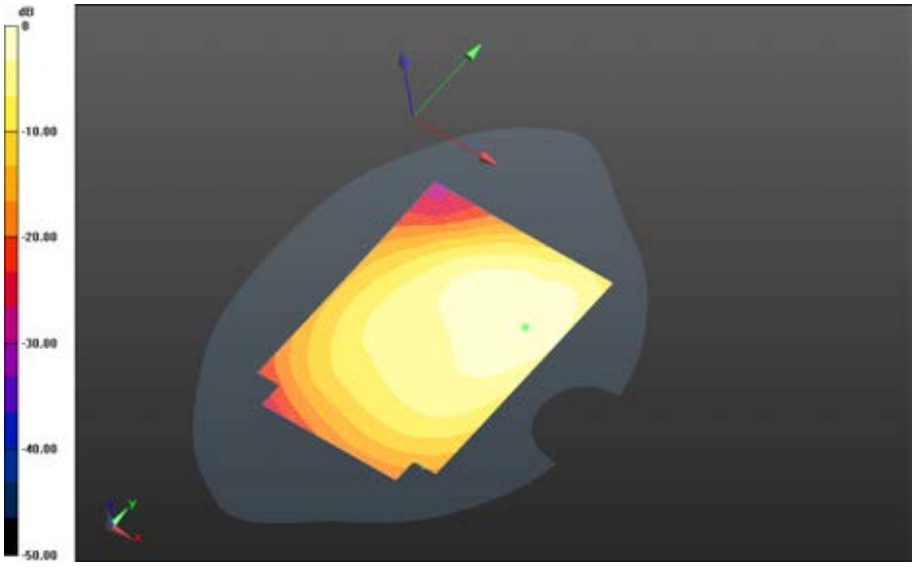
Averaged SAR: SAR(1g) = 0.719 W/kg; SAR(10g) = 0.485 W/kg
Maximum value of SAR (interpolated) = 1.07 W/kg



0 dB = 0.717 W/kg = -1.44 dBW/kg

Mobile Hot Spot MSL - GPRS 850 Rev 2/10mm Device Back - GPRS 850_3-Slot_chan190_amb_temp_23.8C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.027 V/m; **Power Drift = 0.022 dB**

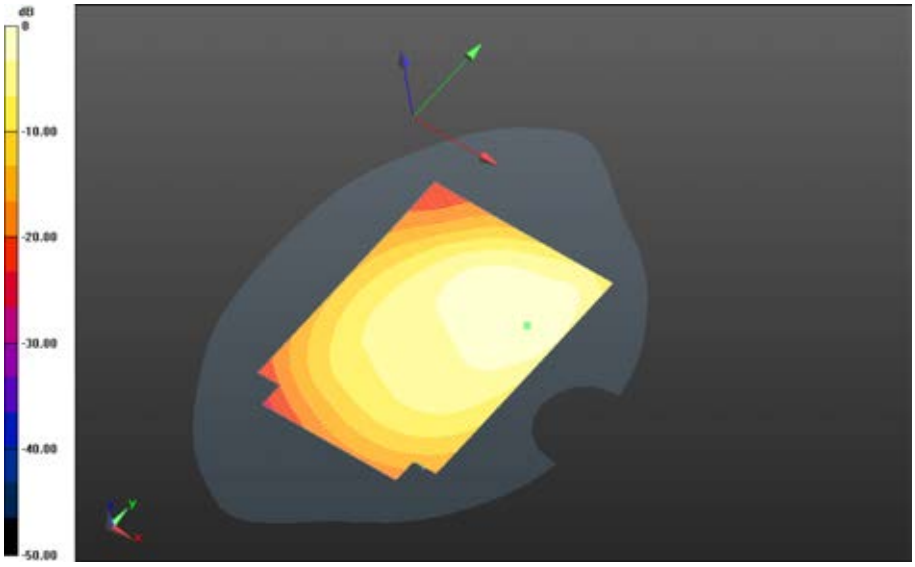
Fast SAR: SAR(1g) = 0.648 W/kg; SAR(10g) = 0.444 W/kg
Maximum value of SAR (interpolated) = 0.697 W/kg



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

Mobile Hot Spot MSL - GPRS 850 Rev 2/10mm Device Back - GPRS 850_3-Slot_chan251_amb_temp_23.8C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.864 V/m; **Power Drift = 0.021 dB**

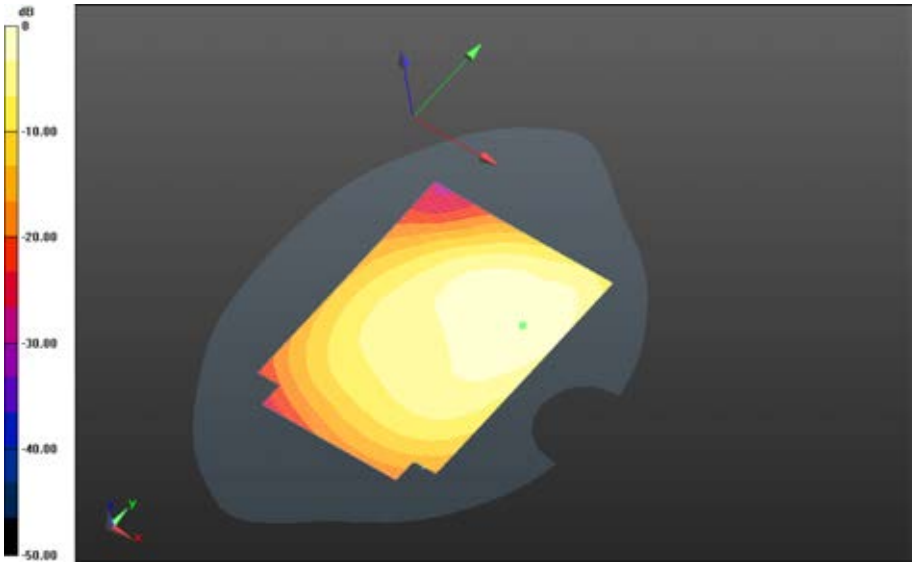
Fast SAR: SAR(1g) = 0.499 W/kg; SAR(10g) = 0.343 W/kg
Maximum value of SAR (interpolated) = 0.537 W/kg



0 dB = 0.697 W/kg = -1.57 dBW/kg

Mobile Hot Spot MSL - GPRS 850 Rev 2/10mm Device Back - GPRS 850_4-Slot_chan128_amb_temp_23.8C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.882 V/m; **Power Drift = 0.015 dB**

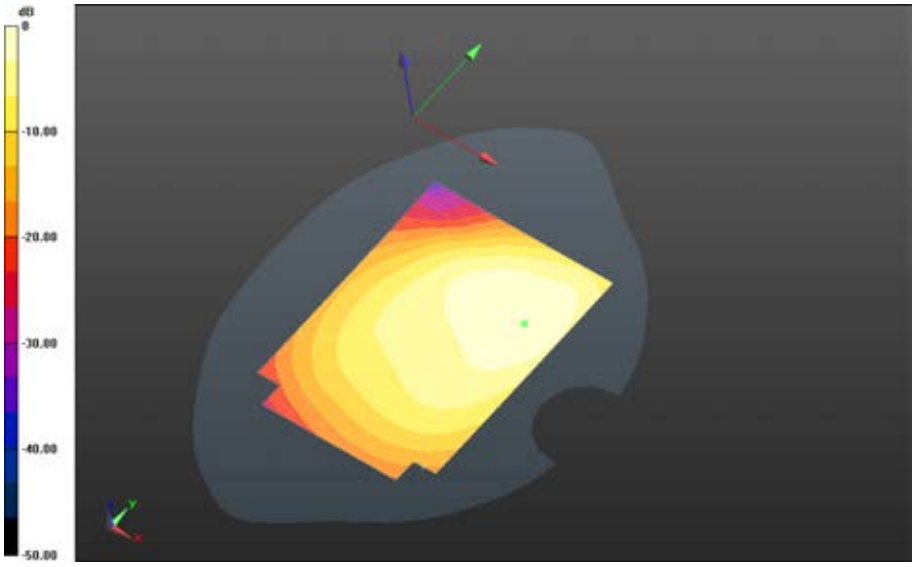
Fast SAR: SAR(1g) = 0.597 W/kg; SAR(10g) = 0.412 W/kg
Maximum value of SAR (interpolated) = 0.640 W/kg



0 dB = 0.537 W/kg = -2.70 dBW/kg

Mobile Hot Spot MSL - GPRS 850 Rev 2/10mm Device Back 2nd Scan - GPRS 850_3-Slot_chan128_amb_temp_23.5C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.012 V/m; **Power Drift = 0.015 dB**

Fast SAR: SAR(1g) = 0.727 W/kg; SAR(10g) = 0.501 W/kg
Maximum value of SAR (interpolated) = 0.775 W/kg



0 dB = 0.640 W/kg = -1.94 dBW/kg

UMTS Band V

Date: 5/2/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - 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; σ = 0.972 S/m; ε_r = 53.561; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

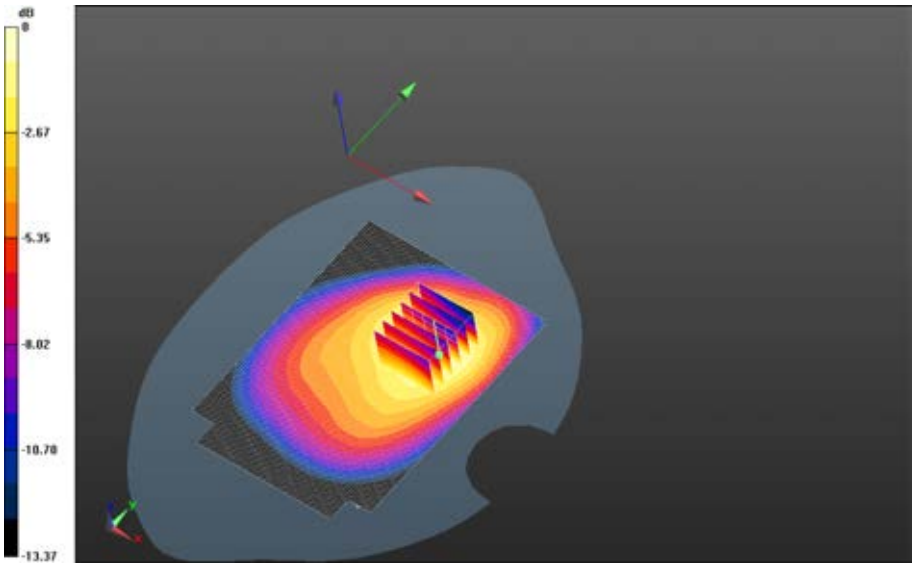
- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - UMTS V/10mm Device Back - UMTS V_chan4132_amb_temp_23.7C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.773 V/m; **Power Drift = -0.00116 dB**

Fast SAR: SAR(1g) = 0.675 W/kg; SAR(10g) = 0.462 W/kg
Maximum value of SAR (interpolated) = 0.725 W/kg

Mobile Hot Spot MSL - UMTS V/10mm Device Back - UMTS V_chan4132_amb_temp_23.7C_liq_temp_22.1C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 19.773 V/m; **Power Drift = -0.00116 dB**

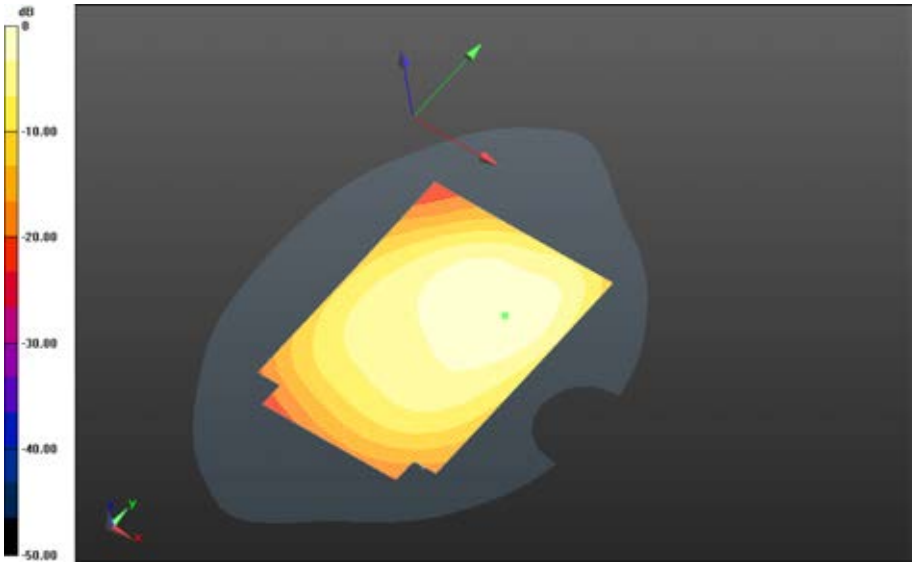
Averaged SAR: SAR(1g) = 0.700 W/kg; SAR(10g) = 0.481 W/kg
Maximum value of SAR (interpolated) = 1.02 W/kg



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

Mobile Hot Spot MSL - UMTS V/10mm Device Back - UMTS V_chan4182_amb_temp_23.7C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.562 V/m; **Power Drift = -0.014 dB**

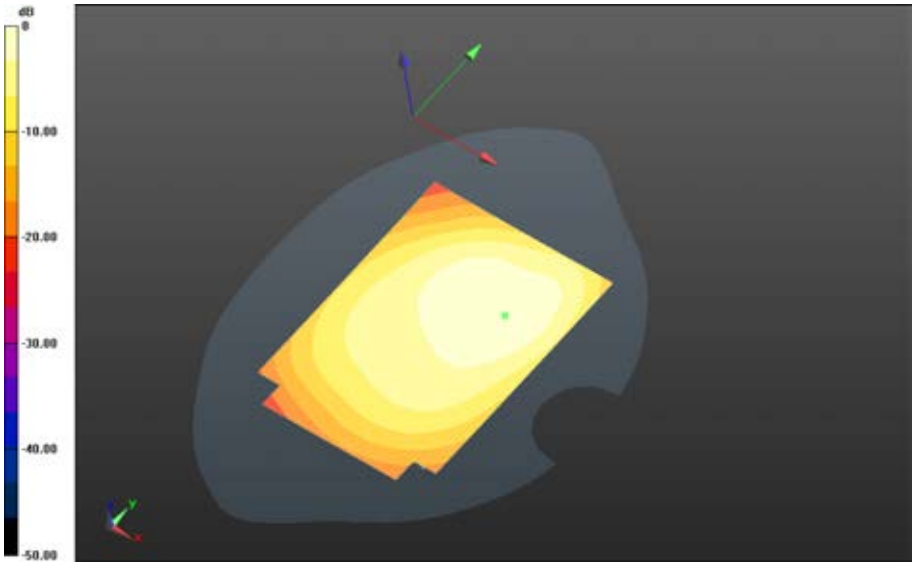
Fast SAR: SAR(1g) = 0.665 W/kg; SAR(10g) = 0.456 W/kg
Maximum value of SAR (interpolated) = 0.715 W/kg



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

Mobile Hot Spot MSL - UMTS V/10mm Device Back - UMTS V_chan4233_amb_temp_23.8C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.636 V/m; **Power Drift = -0.00831 dB**

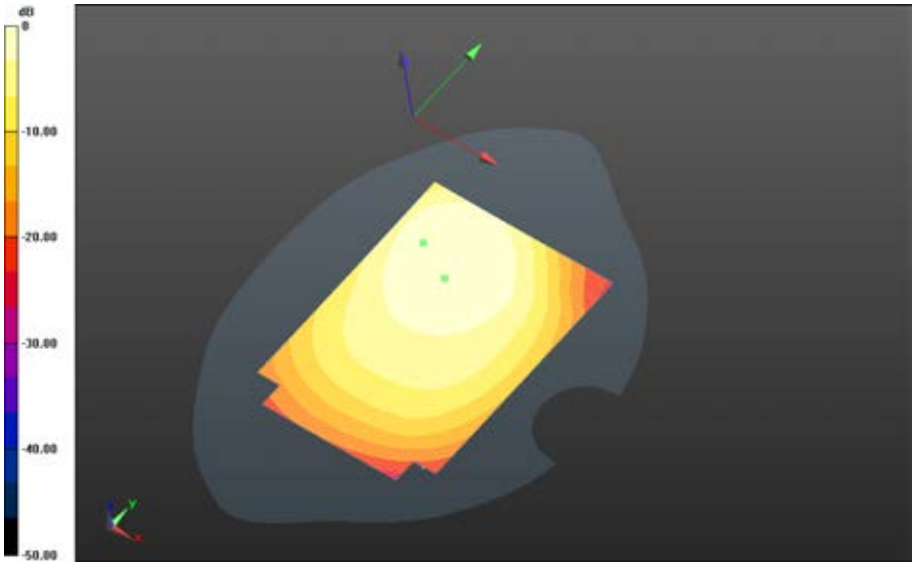
Fast SAR: SAR(1g) = 0.615 W/kg; SAR(10g) = 0.421 W/kg
Maximum value of SAR (interpolated) = 0.660 W/kg



0 dB = 0.715 W/kg = -1.46 dBW/kg

Mobile Hot Spot MSL - UMTS V/10mm Device Front - UMTS V_chan4182_amb_temp_23.7C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.484 V/m; **Power Drift = 0.00264 dB**

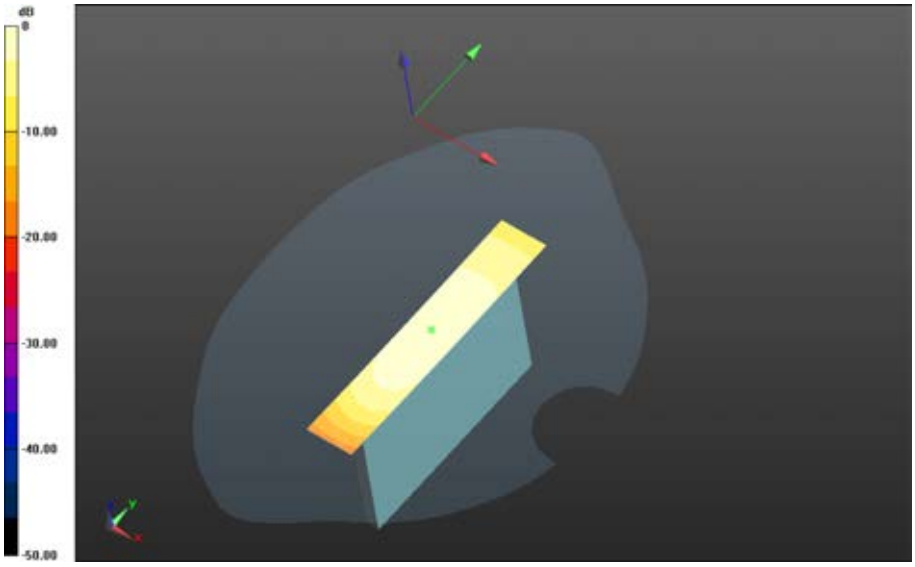
Fast SAR: SAR(1g) = 0.567 W/kg; SAR(10g) = 0.387 W/kg
Maximum value of SAR (interpolated) = 0.609 W/kg



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

Mobile Hot Spot MSL - UMTS V/10mm Device Left - UMTS V_chan4182_amb_temp_24.1C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.023 V/m; **Power Drift = 0.00842 dB**

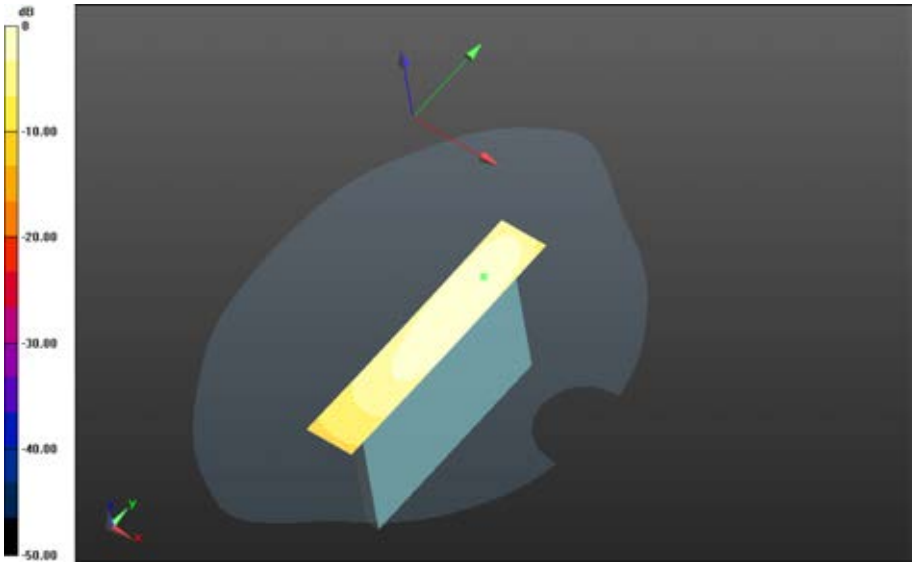
Fast SAR: SAR(1g) = 0.280 W/kg; SAR(10g) = 0.190 W/kg
Maximum value of SAR (interpolated) = 0.299 W/kg



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

Mobile Hot Spot MSL - UMTS V/10mm Device Right - UMTS V_chan4182_amb_temp_24.5C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.743 V/m; **Power Drift = -0.00261 dB**

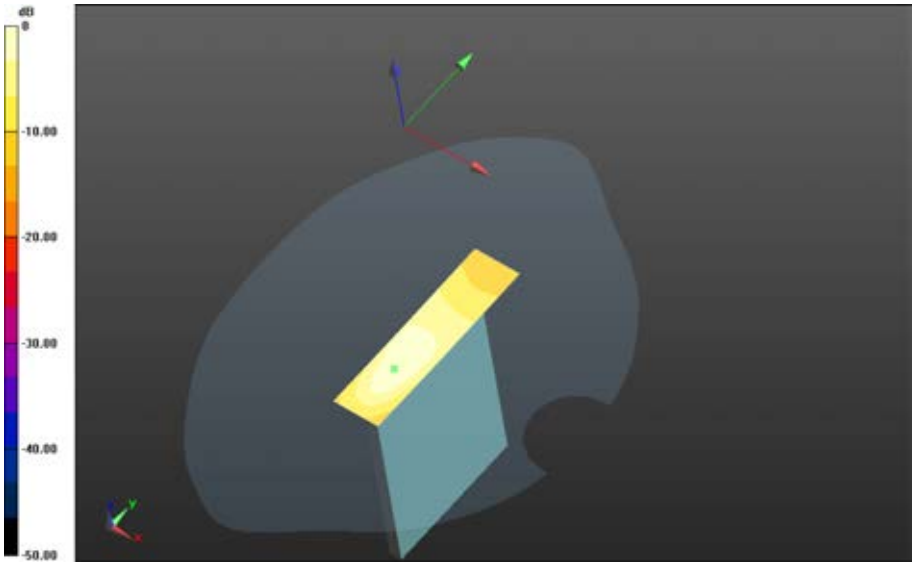
Fast SAR: SAR(1g) = 0.229 W/kg; SAR(10g) = 0.143 W/kg
Maximum value of SAR (interpolated) = 0.252 W/kg



0 dB = 0.299 W/kg = -5.24 dBW/kg

Mobile Hot Spot MSL - UMTS V/10mm Device Bottom - UMTS V_chan4182_amb_temp_24.5C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.165 V/m; **Power Drift = 0.023 dB**

Fast SAR: SAR(1g) = 0.397 W/kg; SAR(10g) = 0.231 W/kg
Maximum value of SAR (interpolated) = 0.465 W/kg



0 dB = 0.252 W/kg = -5.99 dBW/kg

LTE Band 4

Date: 5/13/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - LTE Band 4

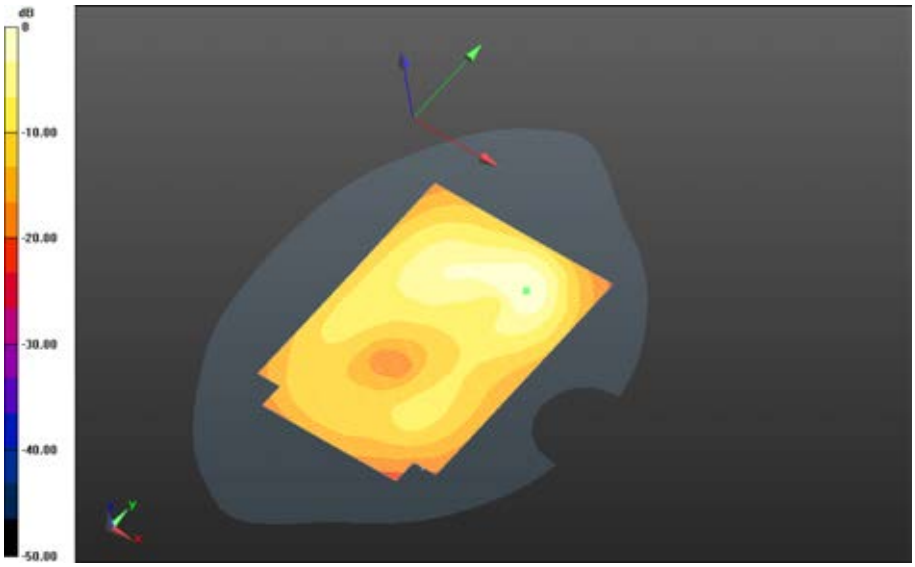
Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1720 MHz
Medium Parameters used: f=1720 MHz; σ = 1.499 S/m; ε_r = 51.474; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20050_20MHz_BW_RB1_Offset_Mid_amb_temp_23.2C_liq_temp_22.4C 2/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.158 V/m; **Power Drift = -0.023 dB**

Fast SAR: SAR(1g) = 0.698 W/kg; SAR(10g) = 0.379 W/kg
Maximum value of SAR (interpolated) = 0.855 W/kg



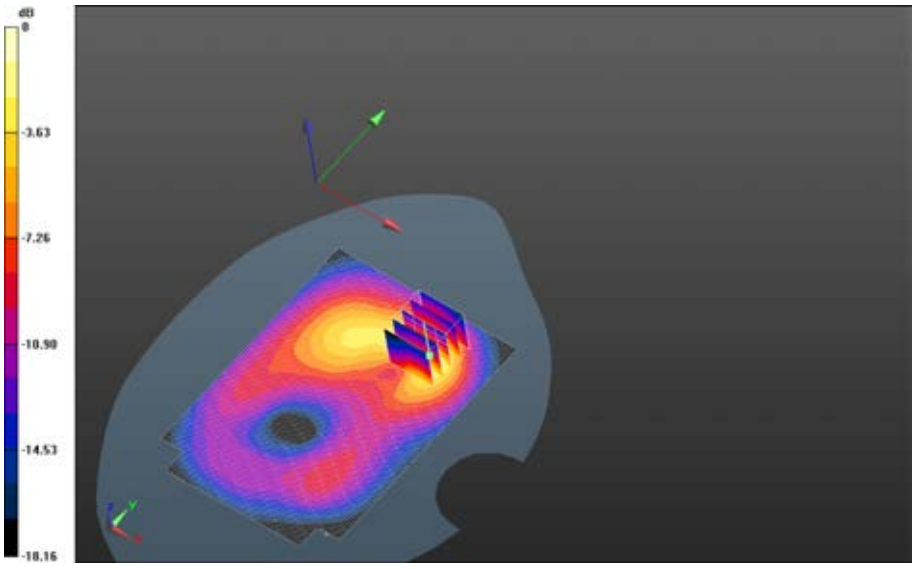
0 dB = 0.855 W/kg = -0.68 dBW/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20175_20MHz_BW_RB1_Offset_Low_amb_temp_23.6C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.990 V/m; **Power Drift = 0.062 dB**

Fast SAR: SAR(1g) = 0.714 W/kg; SAR(10g) = 0.386 W/kg
Maximum value of SAR (interpolated) = 0.878 W/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20175_20MHz_BW_RB1_Offset_Low_amb_temp_23.6C_liq_temp_22.4C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.990 V/m; **Power Drift = 0.062 dB**

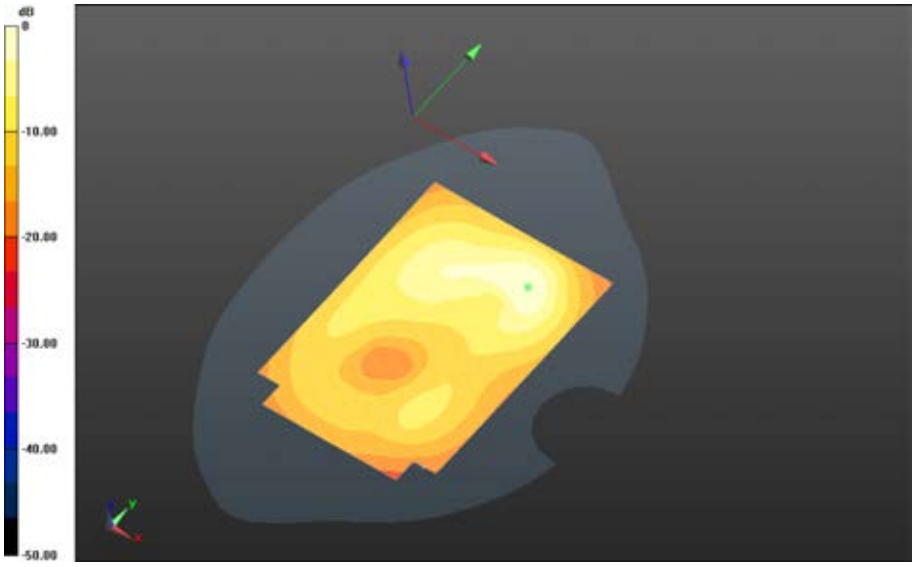
Averaged SAR: SAR(1g) = 0.786 W/kg; SAR(10g) = 0.409 W/kg
Maximum value of SAR (interpolated) = 1.29 W/kg



0 dB = 0.855 W/kg = -0.68 dBW/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20300_20MHz_BW_RB1_Offset_Low_amb_temp_23.2C_liq_temp_22.4C 3/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.759 V/m; **Power Drift = -0.014 dB**

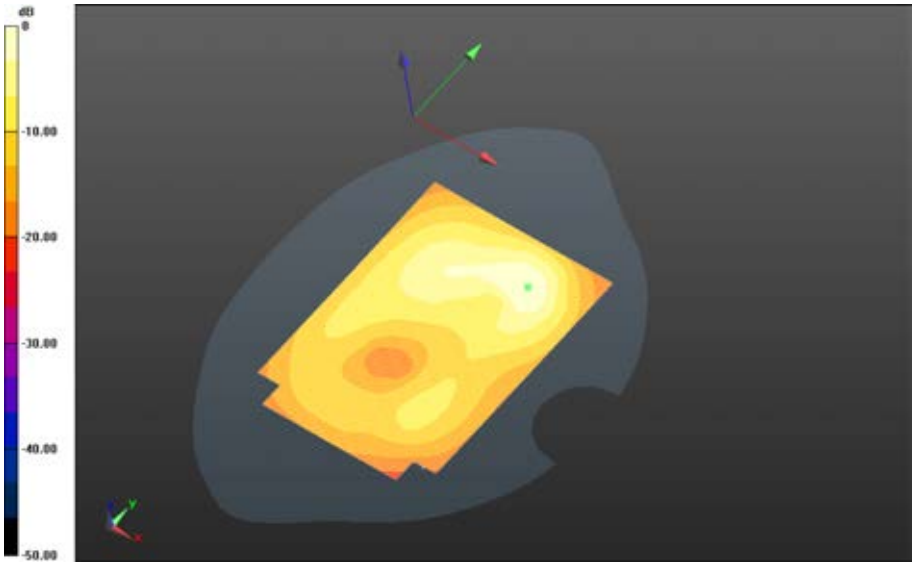
Fast SAR: SAR(1g) = 0.685 W/kg; SAR(10g) = 0.368 W/kg
Maximum value of SAR (interpolated) = 0.845 W/kg



0 dB = 0.894 W/kg = -0.49 dBW/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band 4_chan20175_20MHz_BW_RB50_Offset_Low_amb_temp_23.5C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.411 V/m; **Power Drift = -0.130 dB**

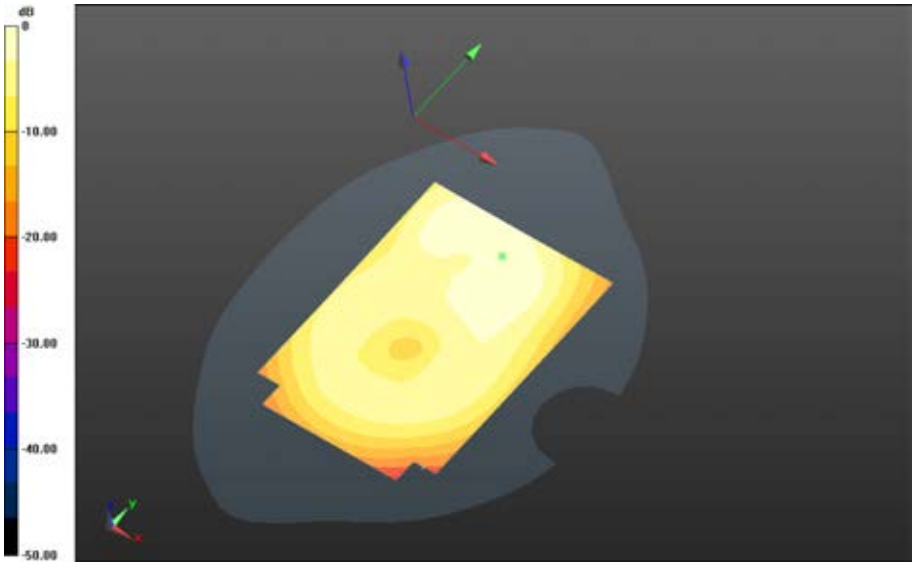
Fast SAR: SAR(1g) = 0.588 W/kg; SAR(10g) = 0.317 W/kg
Maximum value of SAR (interpolated) = 0.724 W/kg



0 dB = 0.845 W/kg = -0.73 dBW/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE band 4_chan20175_20MHz_BW_RB1_Offset_Low_amb_temp_23.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.707 V/m; **Power Drift = 0.078 dB**

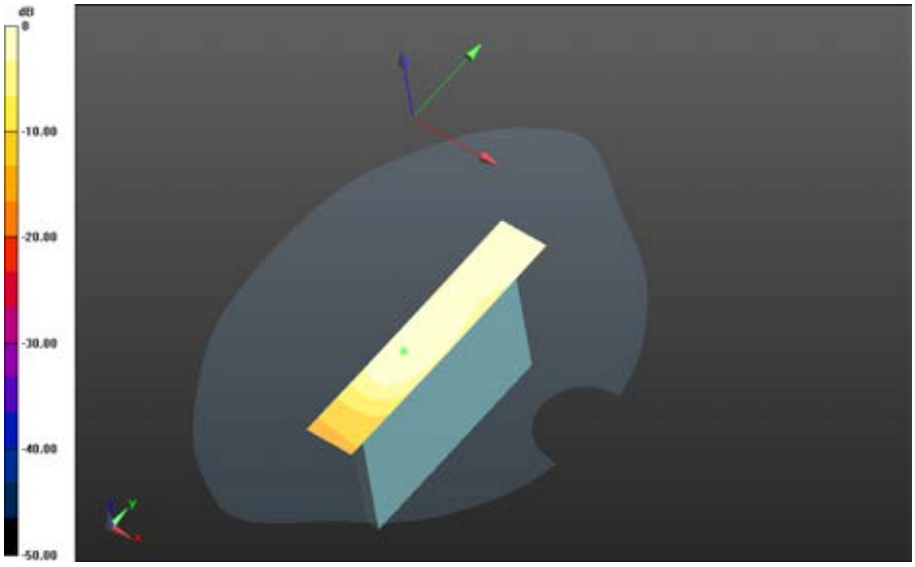
Fast SAR: SAR(1g) = 0.224 W/kg; SAR(10g) = 0.137 W/kg
Maximum value of SAR (interpolated) = 0.248 W/kg



0 dB = 0.724 W/kg = -1.40 dBW/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Left - LTE band 4_chan20175_20MHz_BW_RB1_Offset_Low_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.365 V/m; **Power Drift = -0.000671 dB**

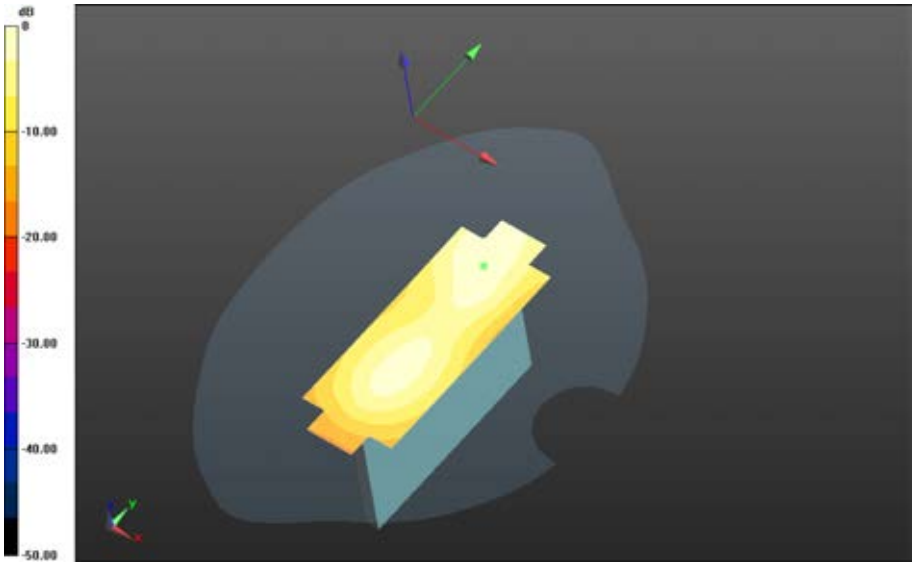
Fast SAR: SAR(1g) = 0.0705 W/kg; SAR(10g) = 0.0421 W/kg
Maximum value of SAR (interpolated) = 0.0789 W/kg



0 dB = 0.248 W/kg = -6.06 dBW/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Right - LTE band 4_chan20175_20MHz_BW_RB1_Offset_Low_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.250 V/m; **Power Drift = -0.064 dB**

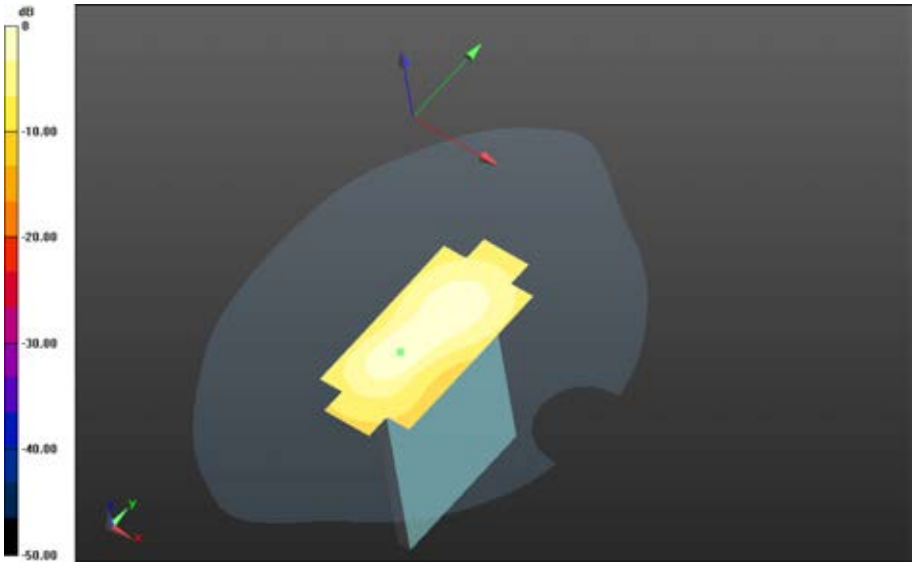
Fast SAR: SAR(1g) = 0.0982 W/kg; SAR(10g) = 0.0570 W/kg
Maximum value of SAR (interpolated) = 0.111 W/kg



0 dB = 0.0789 W/kg = -11.03 dBW/kg

Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom - LTE band 4_chan20175_20MHz_BW_RB1_Offset_Low_amb_temp_23.1C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.747 V/m; **Power Drift = 0.00667 dB**

Fast SAR: SAR(1g) = 0.305 W/kg; SAR(10g) = 0.171 W/kg
Maximum value of SAR (interpolated) = 0.360 W/kg



0 dB = 0.111 W/kg = -9.55 dBW/kg

UMTS Band IV

Date: 5/14/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - UMTS IV

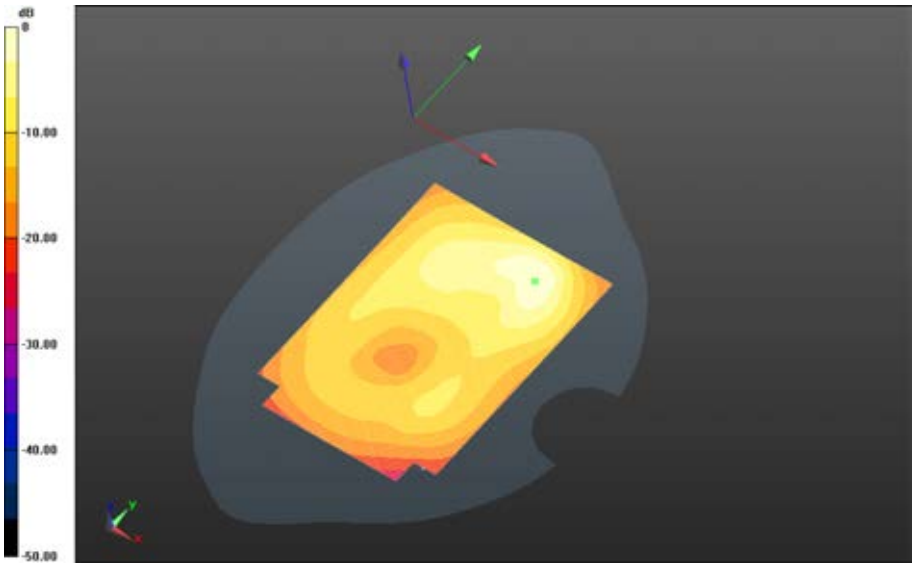
Communication System: WCDMA FDD IV (0); Communication System Band: UMTS band IV;
Frequency: 1712.4 MHz
Medium Parameters used: f=1712.4 MHz; σ = 1.493 S/m; ε_r = 51.476; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS IV_chan1312_amb_temp_23.2C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.085 V/m; **Power Drift = -0.019 dB**

Fast SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.582 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg



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

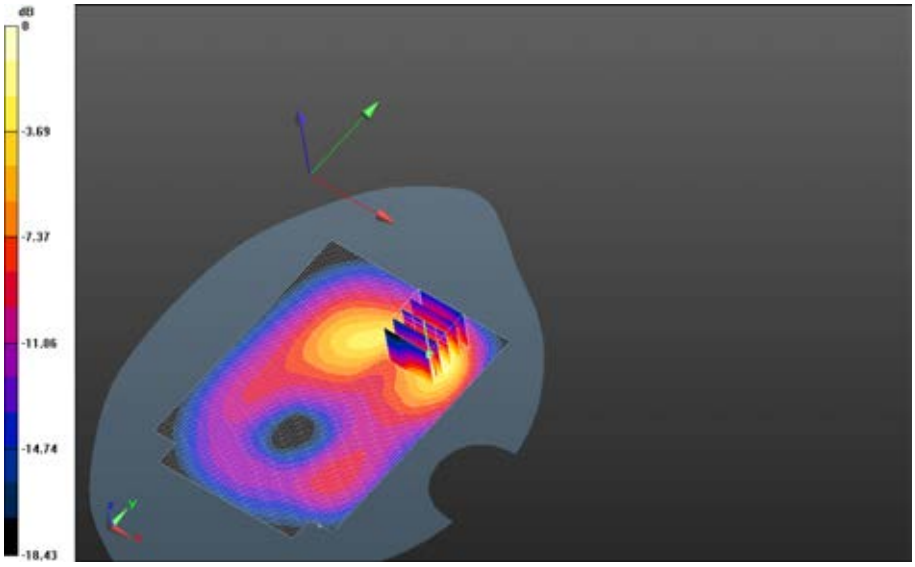
Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS IV_chan1413_amb_temp_23.4C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.454 V/m; **Power Drift = 0.011 dB**

Fast SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.543 W/kg
Maximum value of SAR (interpolated) = 1.26 W/kg

Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS IV_chan1413_amb_temp_23.4C_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 = 9.454 V/m; **Power Drift = 0.011 dB**

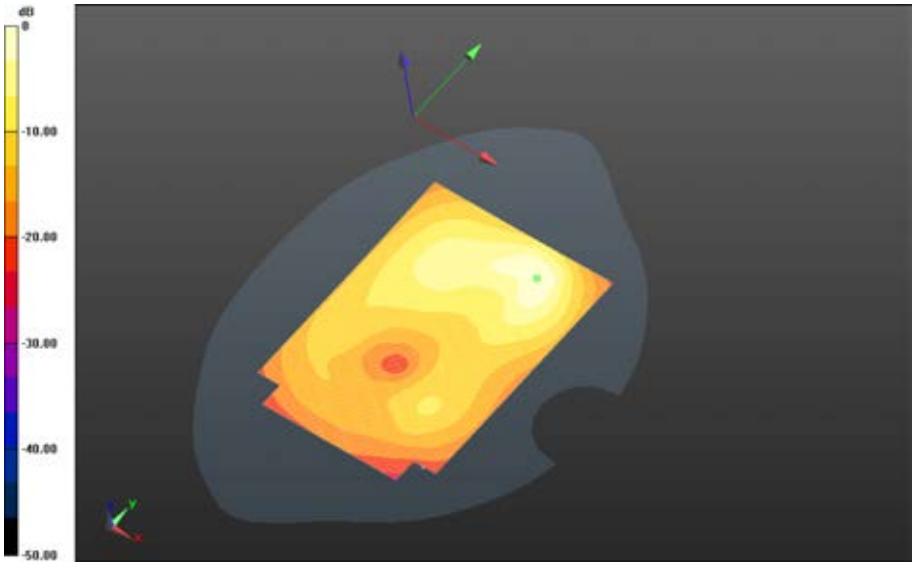
Averaged SAR: SAR(1g) = 1.11 W/kg; SAR(10g) = 0.575 W/kg
Maximum value of SAR (interpolated) = 1.83 W/kg



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

Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS IV_chan1513_amb_temp_23.2C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.965 V/m; **Power Drift = -0.012 dB**

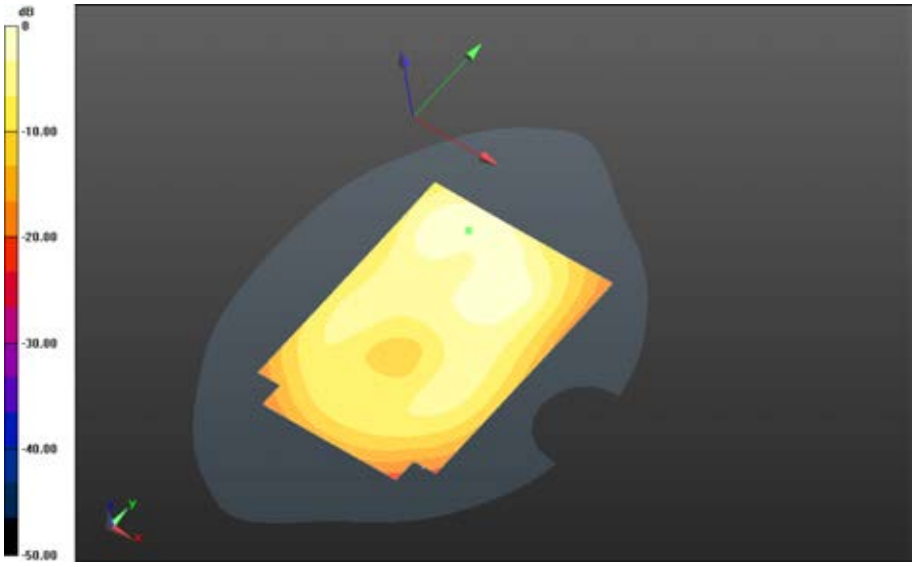
Fast SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.539 W/kg
Maximum value of SAR (interpolated) = 1.27 W/kg



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

Mobile Hot Spot MSL - UMTS IV/10mm Device Front - UMTS IV_chan1413_amb_temp_23.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.994 V/m; **Power Drift = 0.077 dB**

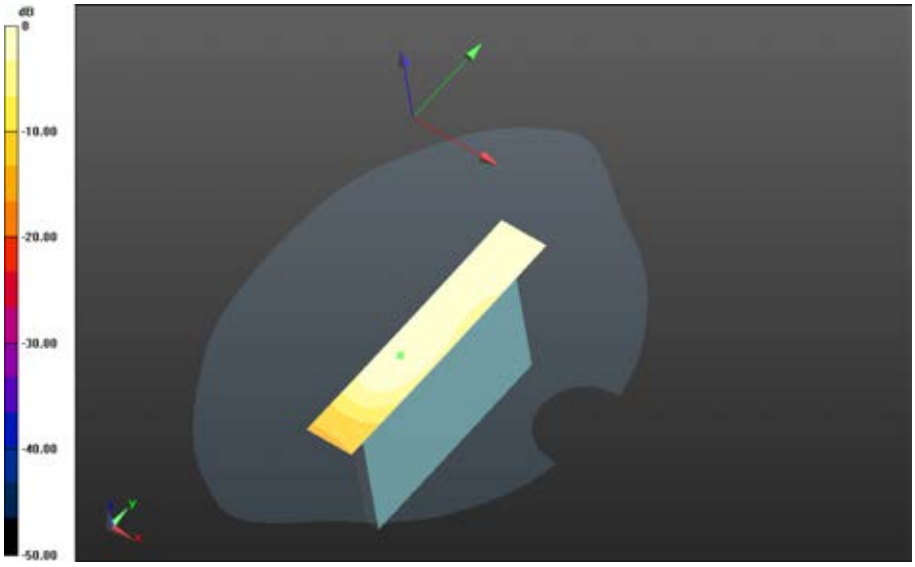
Fast SAR: SAR(1g) = 0.413 W/kg; SAR(10g) = 0.244 W/kg
Maximum value of SAR (interpolated) = 0.457 W/kg



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

Mobile Hot Spot MSL - UMTS IV/10mm Device Left - UMTS IV_chan1413_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.550 V/m; **Power Drift = -0.017 dB**

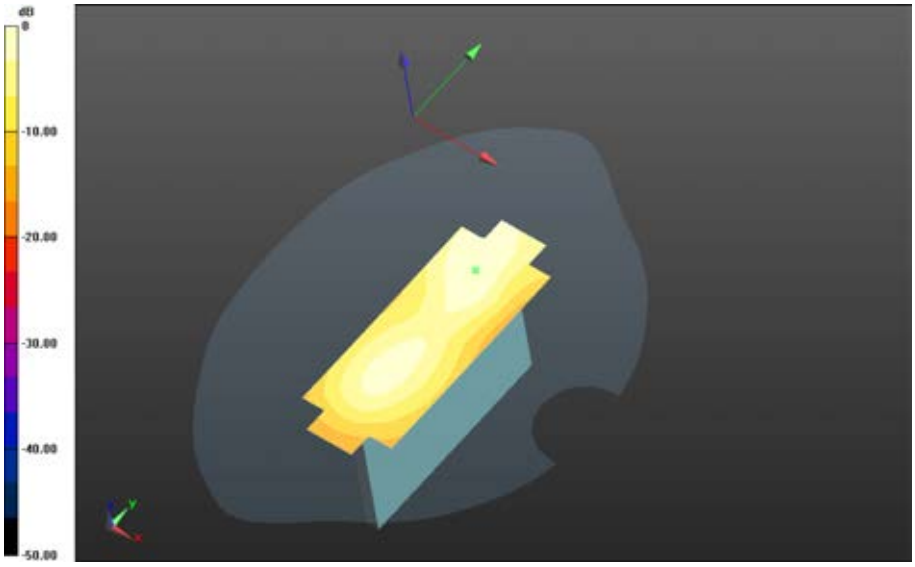
Fast SAR: SAR(1g) = 0.0811 W/kg; SAR(10g) = 0.0482 W/kg
Maximum value of SAR (interpolated) = 0.0914 W/kg



0 dB = 0.457 W/kg = -3.40 dBW/kg

Mobile Hot Spot MSL - UMTS IV/10mm Device Right - UMTS IV_chan1413_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.603 V/m; **Power Drift = -0.038 dB**

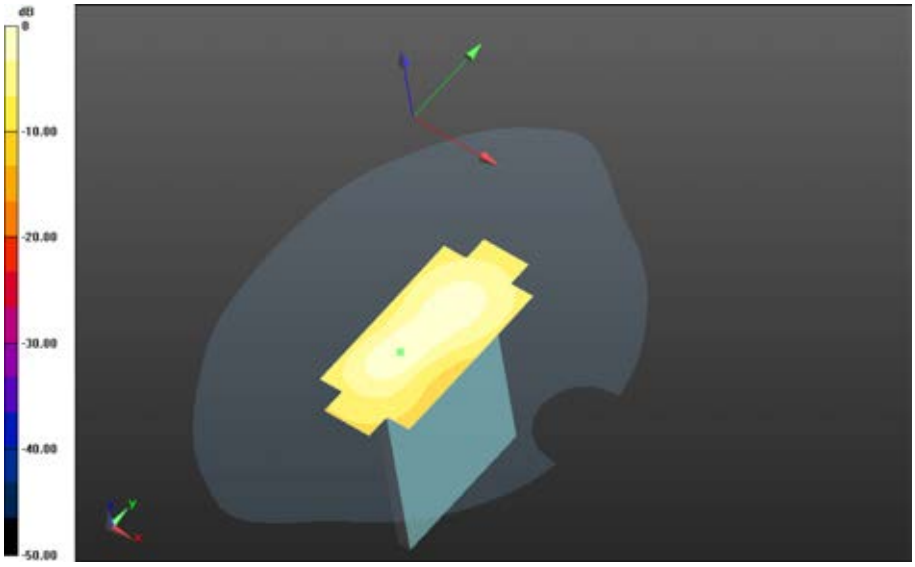
Fast SAR: SAR(1g) = 0.117 W/kg; SAR(10g) = 0.0691 W/kg
Maximum value of SAR (interpolated) = 0.132 W/kg



0 dB = 0.0914 W/kg = -10.39 dBW/kg

Mobile Hot Spot MSL - UMTS IV/10mm Device Bottom - UMTS IV_chan1413_amb_temp_23.1C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.427 V/m; **Power Drift = -0.035 dB**

Fast SAR: SAR(1g) = 0.388 W/kg; SAR(10g) = 0.217 W/kg
Maximum value of SAR (interpolated) = 0.460 W/kg



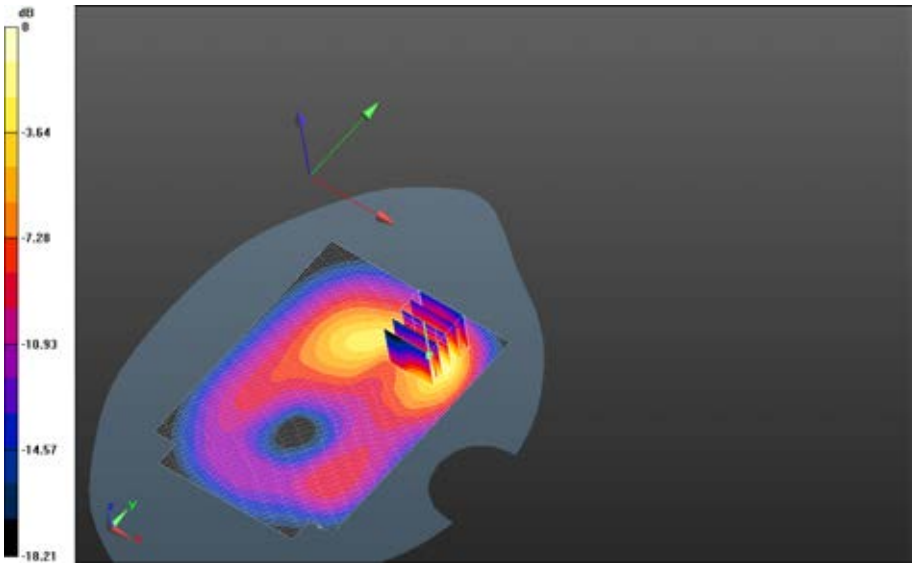
0 dB = 0.132 W/kg = -8.79 dBW/kg

Mobile Hot Spot MSL - UMTS IV/2nd Scan_10mm Device Back - UMTS IV_chan1413_amb_temp_23.3C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.186 V/m; **Power Drift = 0.026 dB**

Fast SAR: SAR(1g) = 0.968 W/kg; SAR(10g) = 0.501 W/kg
Maximum value of SAR (interpolated) = 1.14 W/kg

Mobile Hot Spot MSL - UMTS IV/2nd Scan_10mm Device Back - UMTS IV_chan1413_amb_temp_23.3C_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 = 9.186 V/m; **Power Drift = 0.026 dB**

Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.531 W/kg
Maximum value of SAR (interpolated) = 1.65 W/kg



0 dB = 0.460 W/kg = -3.37 dBW/kg

LTE Band 2

Date: 4/30/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - LTE Band 2

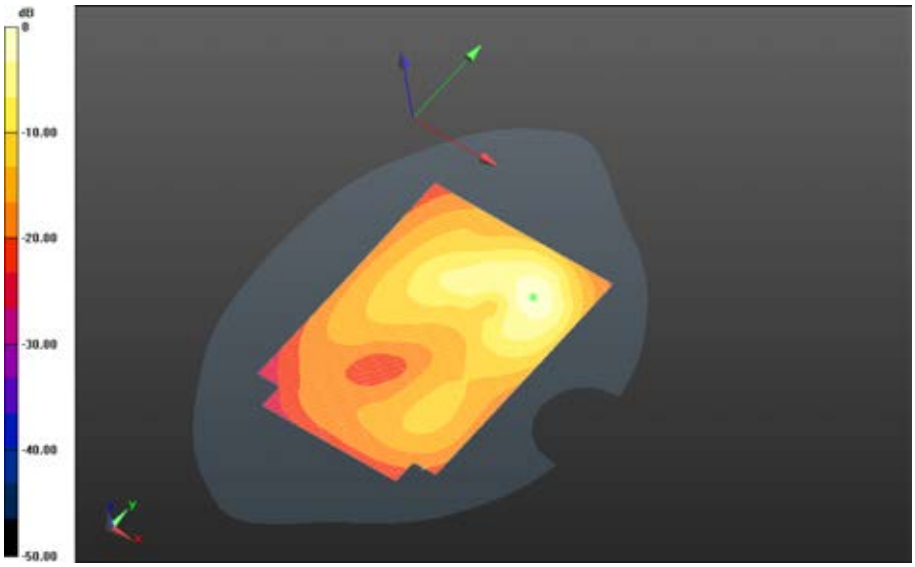
Communication System: LTE 2 (0); Communication System Band: LTE Band 2; Frequency: 1860 MHz
Medium Parameters used: f=1860 MHz; σ = 1.481 S/m; ε_r = 51.563; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18700_20MHz_BW_RB1_Offset_Mid_amb_temp_23.2C_liq_temp_22.4C 2/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.652 V/m; **Power Drift = 0.032 dB**

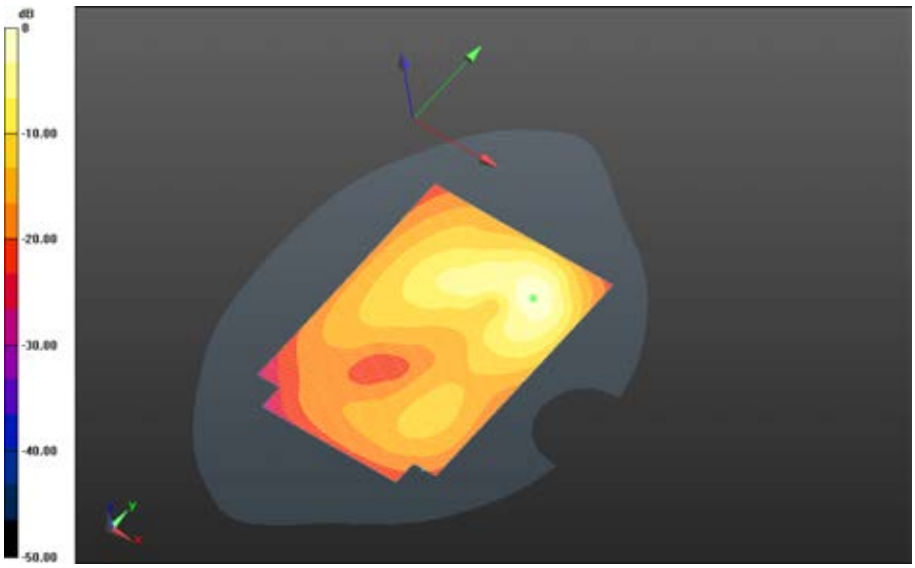
Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.484 W/kg
Maximum value of SAR (interpolated) = 1.26 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.6C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.646 V/m; **Power Drift = -0.00774 dB**

Fast SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.476 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



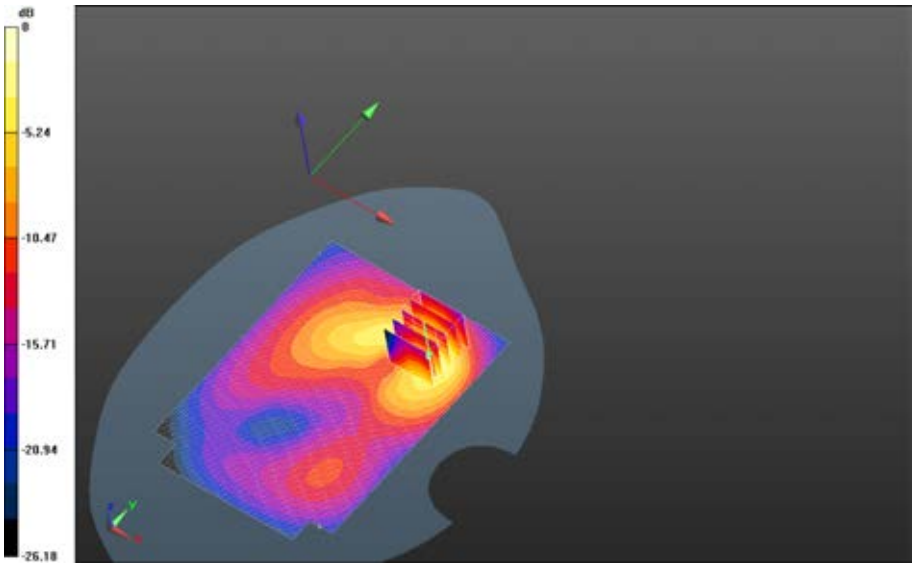
0 dB = 1.26 W/kg = 1.00 dBW/kg

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB1_Offset_Low_amb_temp_23.2C_liq_temp_22.4C 3/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.776 V/m; **Power Drift = 0.067 dB**

Fast SAR: SAR(1g) = 1.07 W/kg; SAR(10g) = 0.502 W/kg
Maximum value of SAR (interpolated) = 1.32 W/kg

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB1_Offset_Low_amb_temp_23.2C_liq_temp_22.4C 3/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.776 V/m; **Power Drift = 0.067 dB**

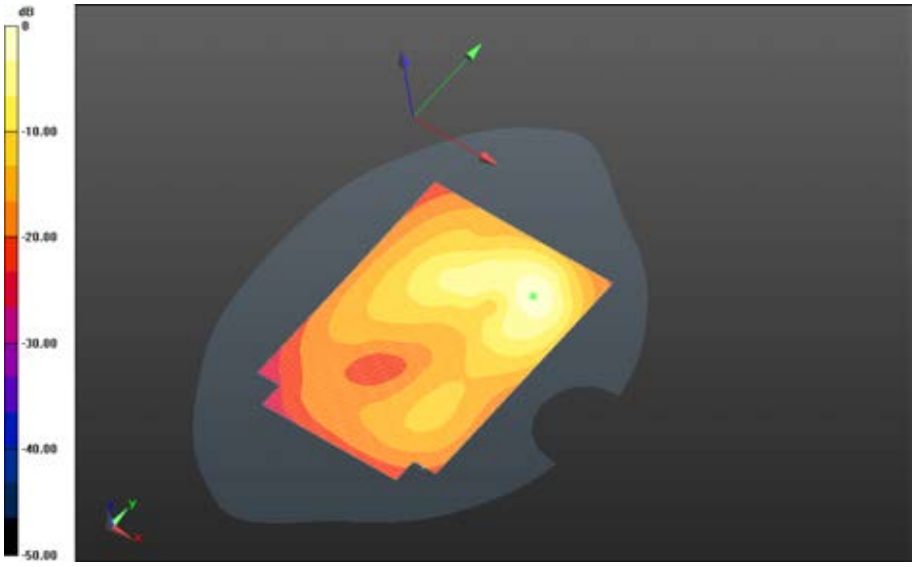
Averaged SAR: SAR(1g) = 1.16 W/kg; SAR(10g) = 0.572 W/kg
Maximum value of SAR (interpolated) = 1.99 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18700_20MHz_BW_RB50_Offset_Low_amb_temp_23.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.598 V/m; **Power Drift = 0.124 dB**

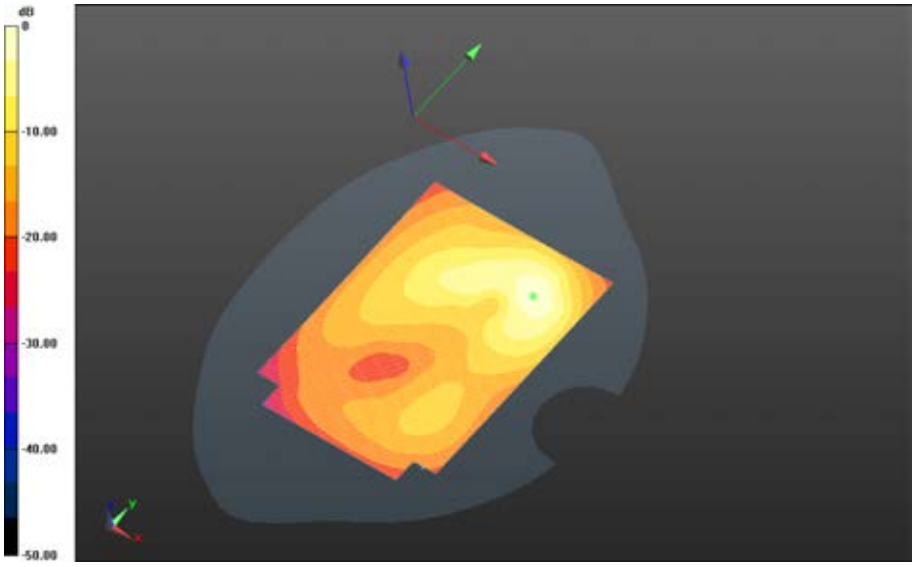
Fast SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.480 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18900_20MHz_BW_RB50_Offset_Low_amb_temp_23.1C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.675 V/m; **Power Drift = -0.060 dB**

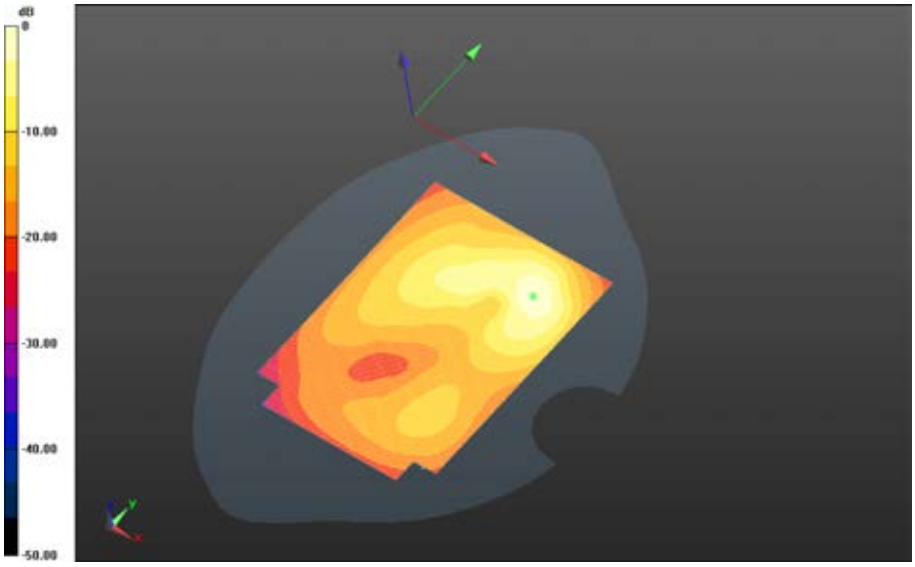
Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.486 W/kg
Maximum value of SAR (interpolated) = 1.28 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB50_Offset_Low_amb_temp_23.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.551 V/m; **Power Drift = 0.025 dB**

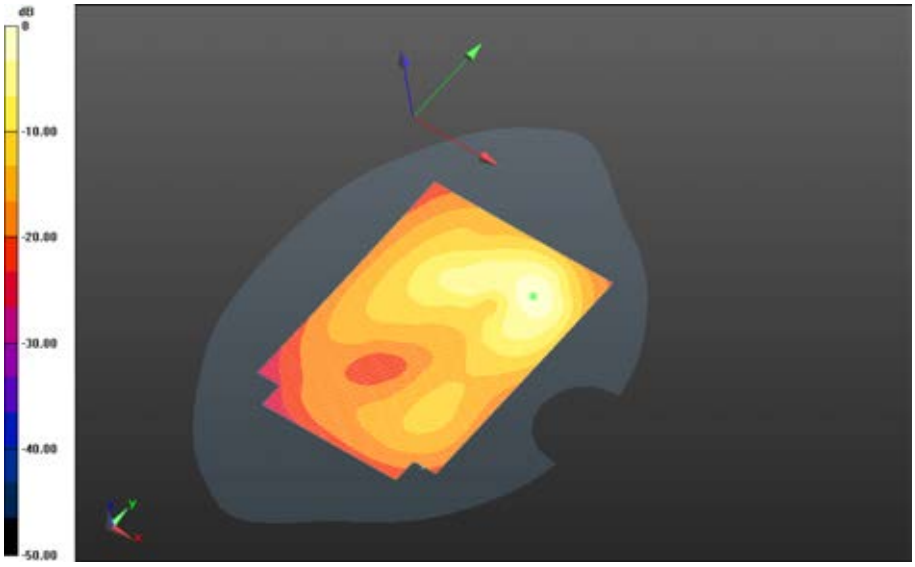
Fast SAR: SAR(1g) = 1.00 W/kg; SAR(10g) = 0.468 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18700_20MHz_BW100_RB1_Offset_Low_amb_temp_23.1C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.719 V/m; **Power Drift = -0.183 dB**

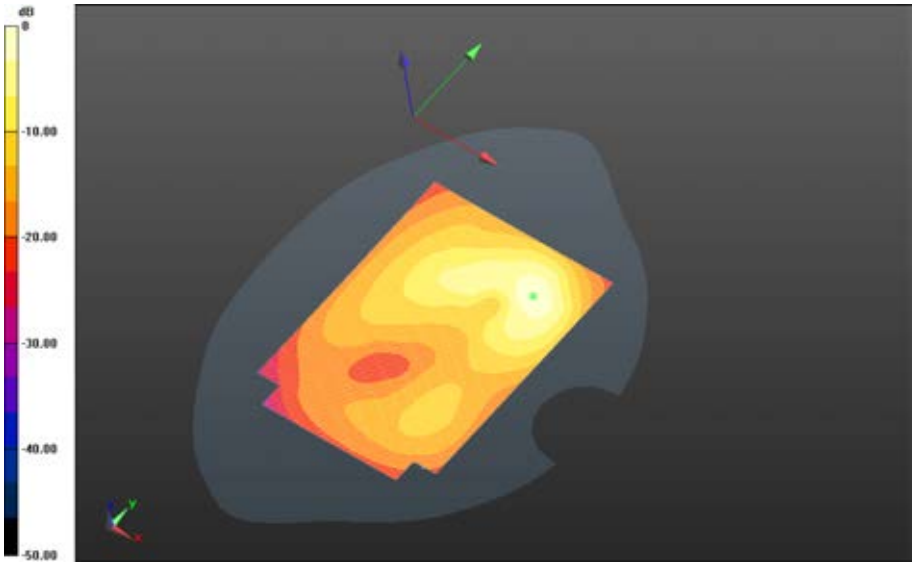
Fast SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.479 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan18900_20MHz_BW_RB100_Offset_Low_amb_temp_23.1C_liq_temp_22.3C 2/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.651 V/m; **Power Drift = 0.097 dB**

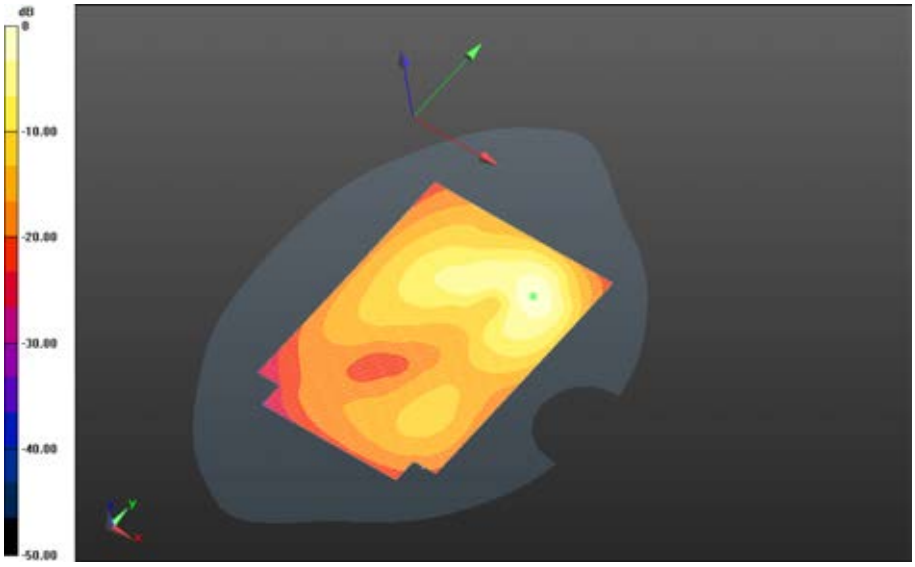
Fast SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.489 W/kg
Maximum value of SAR (interpolated) = 1.30 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB100_Offset_Low_amb_temp_23.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.450 V/m; **Power Drift = -0.150 dB**

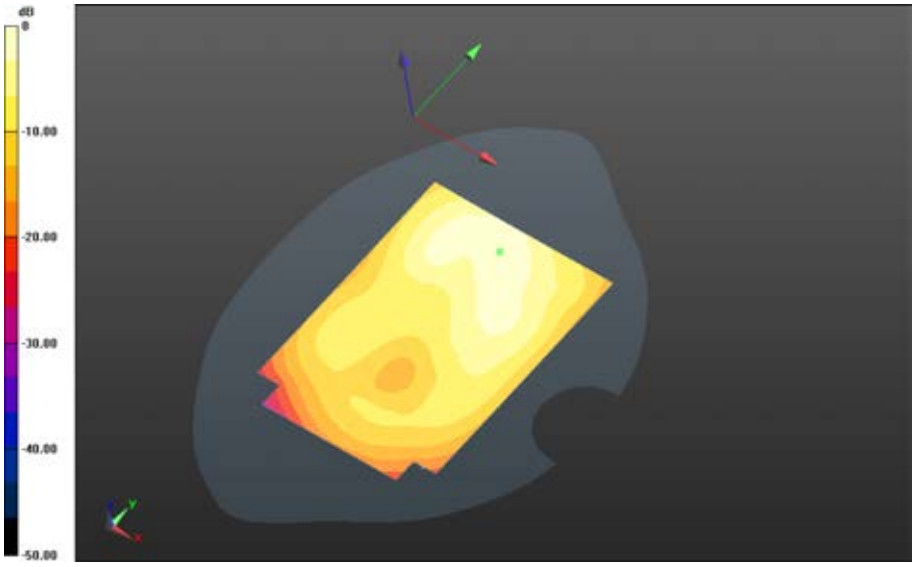
Fast SAR: SAR(1g) = 0.977 W/kg; SAR(10g) = 0.454 W/kg
Maximum value of SAR (interpolated) = 1.21 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

Mobile Hot Spot MSL - LTE Band 2/10mm Device Front - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.345 V/m; **Power Drift = -0.052 dB**

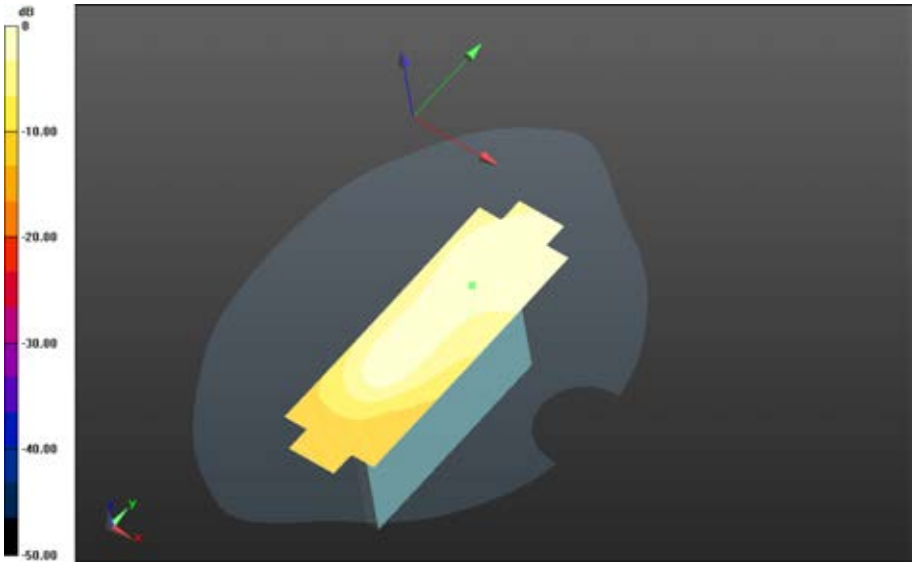
Fast SAR: SAR(1g) = 0.238 W/kg; SAR(10g) = 0.135 W/kg
Maximum value of SAR (interpolated) = 0.271 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/10mm Device Left - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.183 V/m; **Power Drift = -0.028 dB**

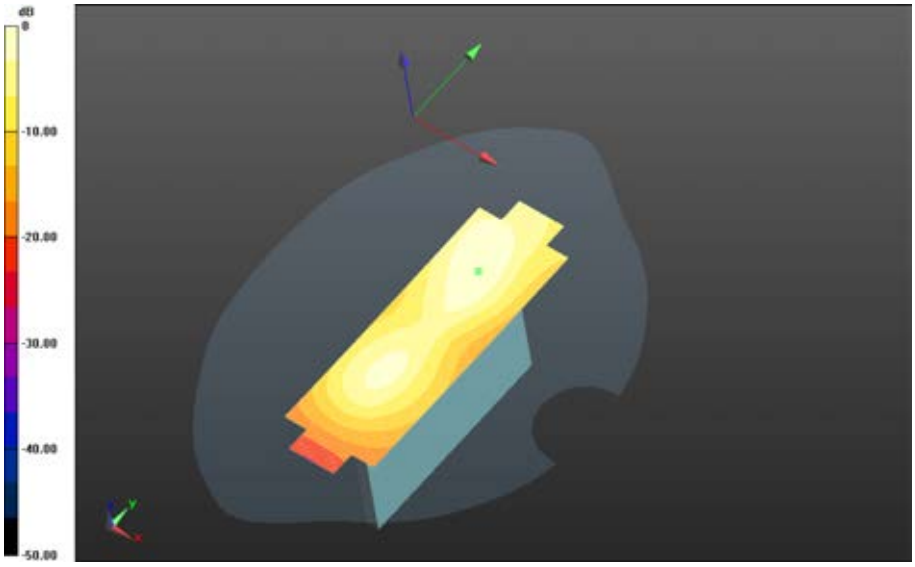
Fast SAR: SAR(1g) = 0.0384 W/kg; SAR(10g) = 0.0229 W/kg
Maximum value of SAR (interpolated) = 0.0423 W/kg



0 dB = 0.271 W/kg = -5.67 dBW/kg

Mobile Hot Spot MSL - LTE Band 2/10mm Device Right - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.601 V/m; **Power Drift = -0.044 dB**

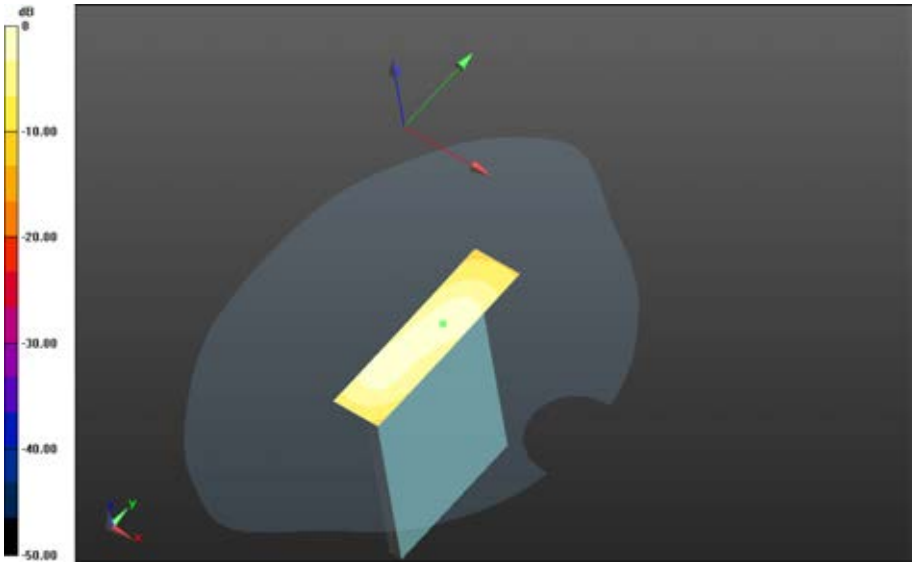
Fast SAR: SAR(1g) = 0.124 W/kg; SAR(10g) = 0.0703 W/kg
Maximum value of SAR (interpolated) = 0.142 W/kg



0 dB = 0.0423 W/kg = -13.74 dBW/kg

Mobile Hot Spot MSL - LTE Band 2/10mm Device Bottom - LTE band 2_chan18900_20MHz_BW_RB1_Offset_Mid_amb_temp_23.1C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.497 V/m; **Power Drift = -0.136 dB**

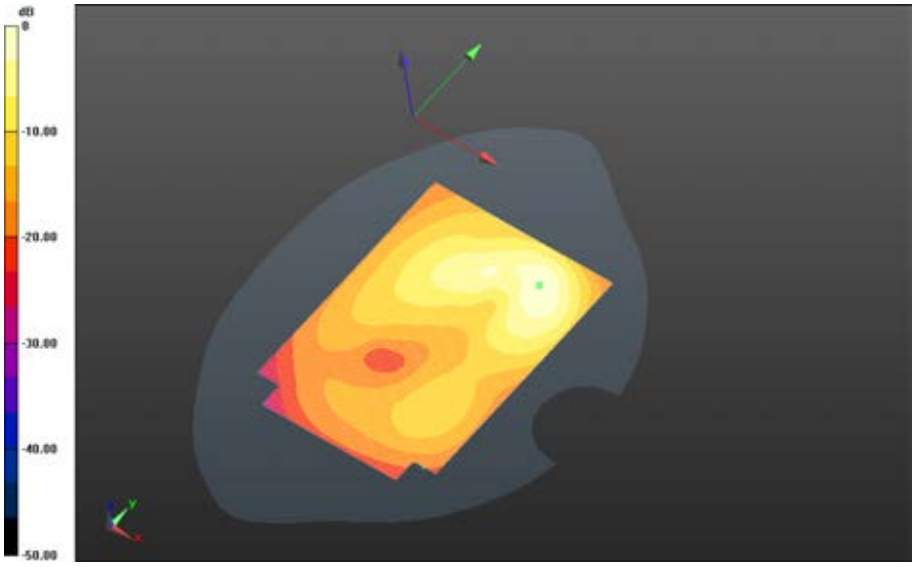
Fast SAR: SAR(1g) = 0.404 W/kg; SAR(10g) = 0.215 W/kg
Maximum value of SAR (interpolated) = 0.462 W/kg



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

Mobile Hot Spot MSL - LTE Band 2/Headset_10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB1_Offset_Low_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.965 V/m; **Power Drift = 0.077 dB**

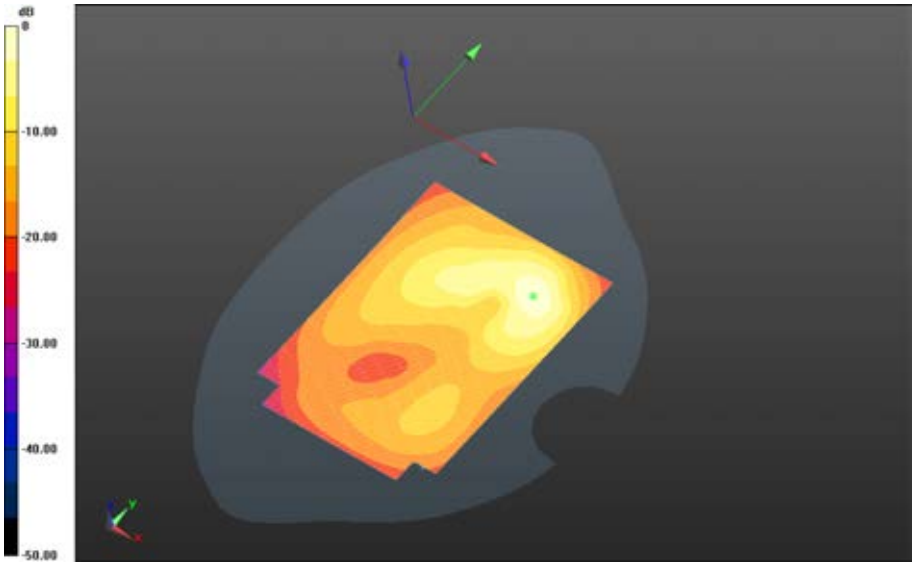
Fast SAR: SAR(1g) = 0.787 W/kg; SAR(10g) = 0.407 W/kg
Maximum value of SAR (interpolated) = 0.945 W/kg



0 dB = 0.462 W/kg = -3.35 dBW/kg

Mobile Hot Spot MSL - LTE Band 2/2nd Scan_10mm Device Back - LTE band 2_chan19100_20MHz_BW_RB1_Offset_Low_amb_temp_23.4C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.710 V/m; **Power Drift = -0.156 dB**

Fast SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.481 W/kg
Maximum value of SAR (interpolated) = 1.30 W/kg



0 dB = 0.945 W/kg = -0.25 dBW/kg

GPRS 1900

Date: 6/3/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF46F9

Configuration: Mobile Hot Spot MSL - GPRS 1900

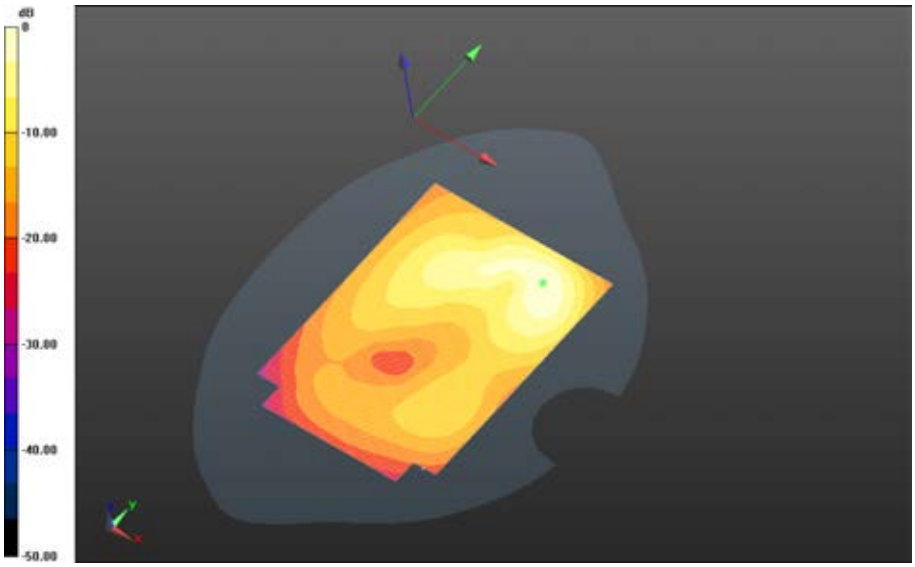
Communication System: GSM 1900 (0); Communication System Band: GSM 1900; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.486 S/m; ε_r = 50.749; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GSM1900_1-slot_chan661_amb_temp_23.9C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 3.757 V/m; **Power Drift = 0.130 dB**

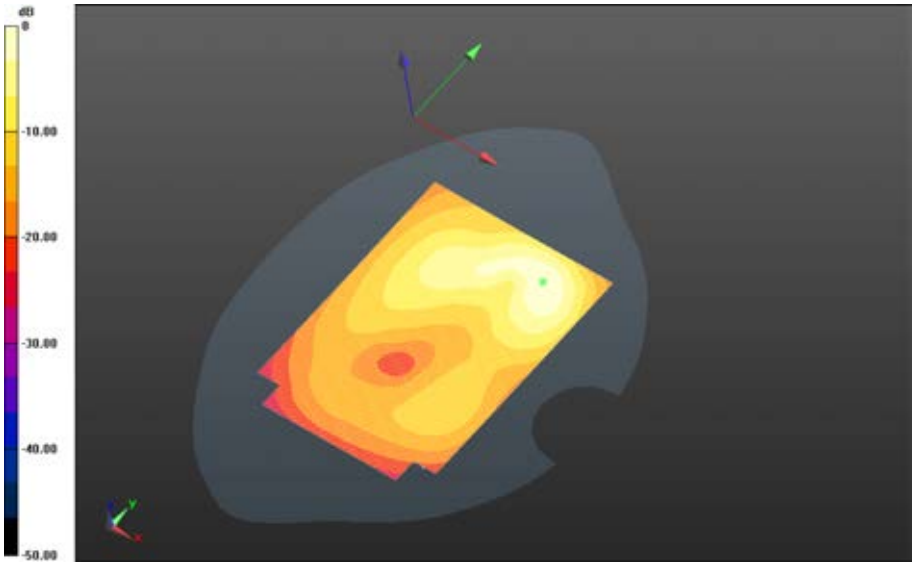
Fast SAR: SAR(1g) = 0.511 W/kg; SAR(10g) = 0.264 W/kg
Maximum value of SAR (interpolated) = 0.630 W/kg



0 dB = 0.630 W/kg = -2.01 dBW/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_2-slot_chan512_amb_temp_23.7C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.452 V/m; **Power Drift = -0.025 dB**

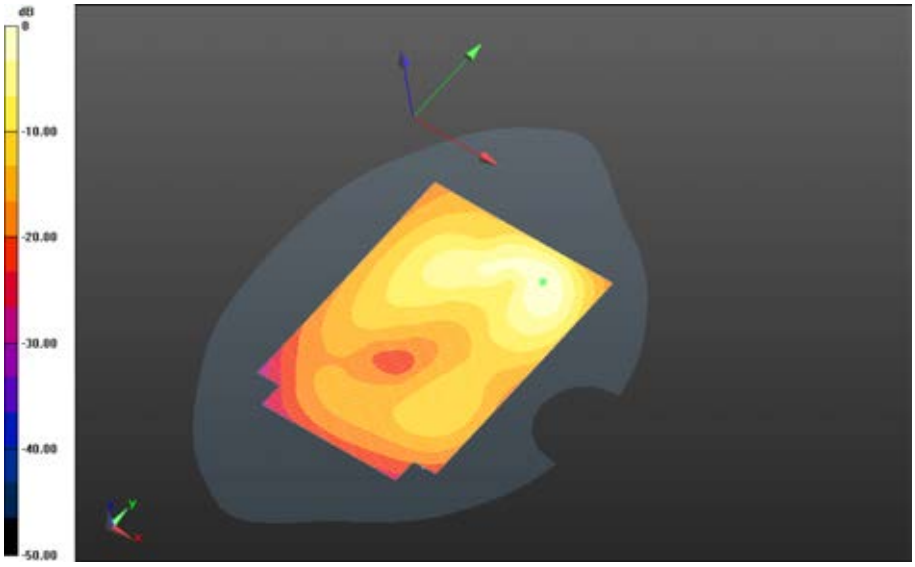
Fast SAR: SAR(1g) = 0.636 W/kg; SAR(10g) = 0.327 W/kg
Maximum value of SAR (interpolated) = 0.772 W/kg



0 dB = 0.630 W/kg = -2.01 dBW/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_2-slot_chan661_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.411 V/m; **Power Drift = -0.095 dB**

Fast SAR: SAR(1g) = 0.692 W/kg; SAR(10g) = 0.356 W/kg
Maximum value of SAR (interpolated) = 0.855 W/kg



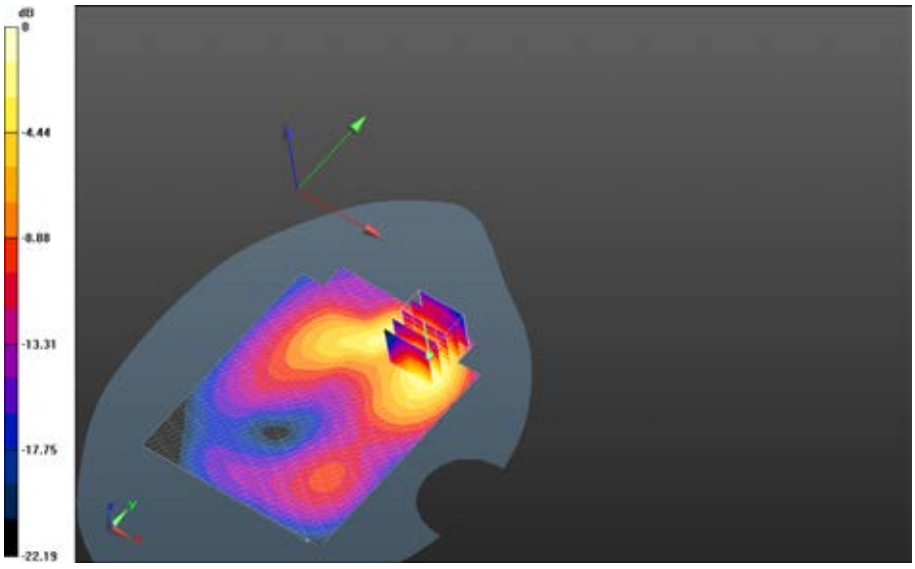
0 dB = 0.772 W/kg = -1.12 dBW/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_2-slot_chan810_amb_temp_23.9C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.220 V/m; **Power Drift = -0.122 dB**

Fast SAR: SAR(1g) = 0.713 W/kg; SAR(10g) = 0.371 W/kg
Maximum value of SAR (interpolated) = 0.863 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_2-slot_chan810_amb_temp_23.9C_liq_temp_22.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 4.220 V/m; **Power Drift = -0.122 dB**

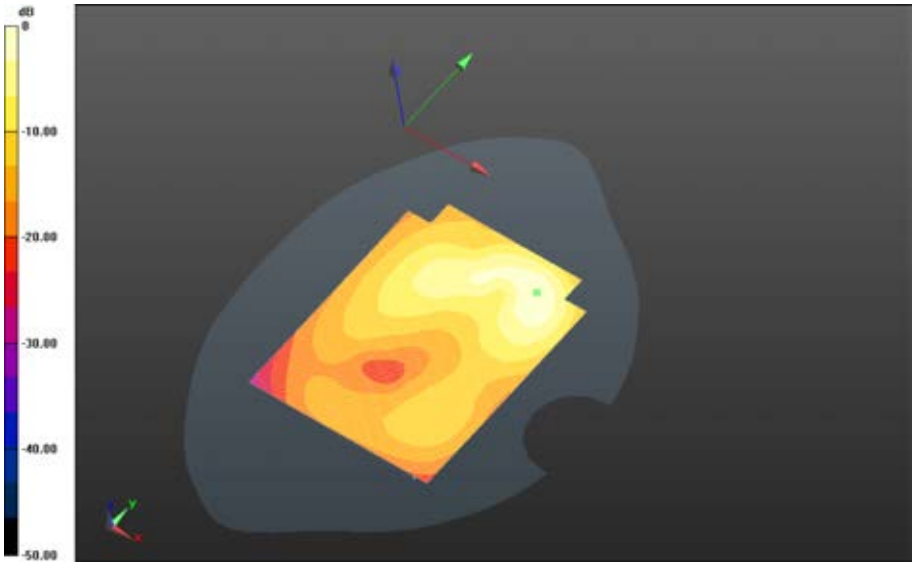
Averaged SAR: SAR(1g) = 0.708 W/kg; SAR(10g) = 0.370 W/kg
Maximum value of SAR (interpolated) = 1.17 W/kg



0 dB = 0.855 W/kg = -0.68 dBW/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_3-slot_chan661_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 3.773 V/m; **Power Drift = 0.029 dB**

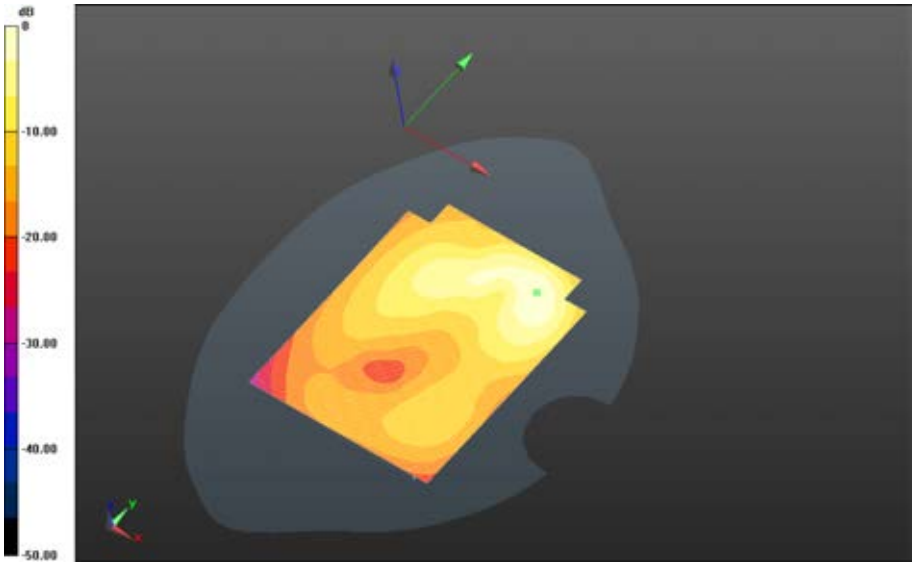
Fast SAR: SAR(1g) = 0.511 W/kg; SAR(10g) = 0.264 W/kg
Maximum value of SAR (interpolated) = 0.623 W/kg



0 dB = 0.807 W/kg = -0.93 dBW/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_4-slot_chan661_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 3.961 V/m; **Power Drift = 0.048 dB**

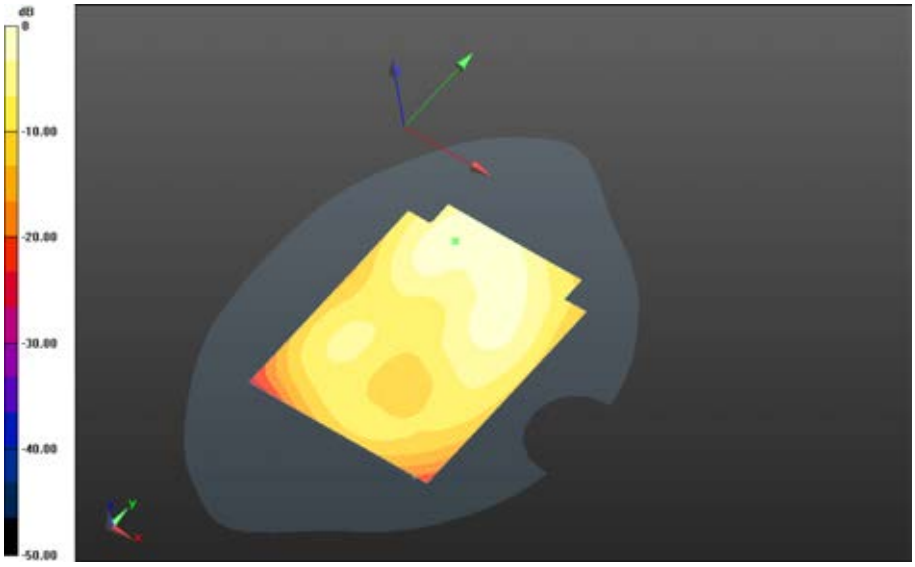
Fast SAR: SAR(1g) = 0.566 W/kg; SAR(10g) = 0.293 W/kg
Maximum value of SAR (interpolated) = 0.686 W/kg



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

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front- GPRS1900_2-slot_chan661_amb_temp_24.0C_liq_temp_22.4C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.420 V/m; **Power Drift = 0.070 dB**

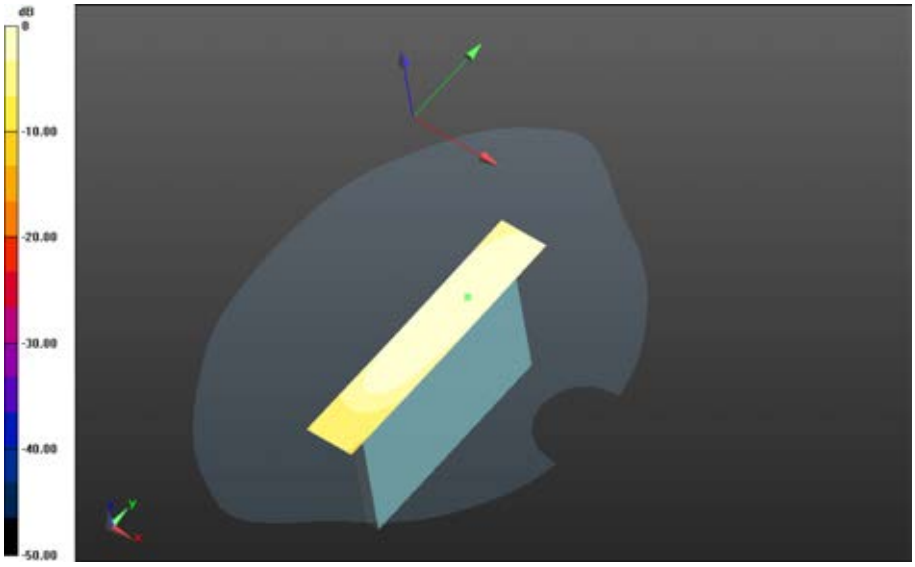
Fast SAR: SAR(1g) = 0.163 W/kg; SAR(10g) = 0.0933 W/kg
Maximum value of SAR (interpolated) = 0.184 W/kg



0 dB = 0.686 W/kg = -1.64 dBW/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS1900_2-slot_chan661_amb_temp_24.0C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.388 V/m; **Power Drift = 0.012 dB**

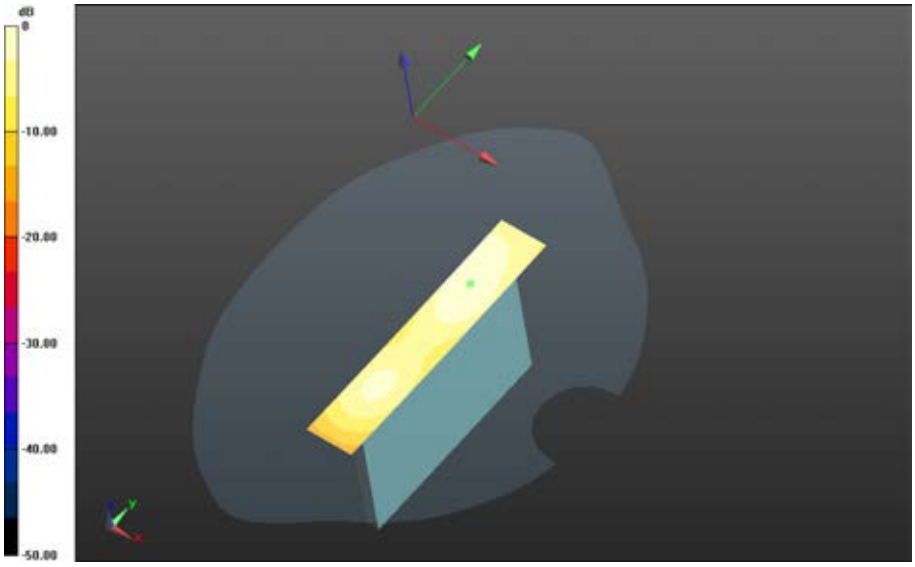
Fast SAR: SAR(1g) = 0.0410 W/kg; SAR(10g) = 0.0246 W/kg
Maximum value of SAR (interpolated) = 0.0446 W/kg



0 dB = 0.184 W/kg = -7.35 dBW/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GPRS1900_2-slot_chan661_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.215 V/m; **Power Drift = 0.077 dB**

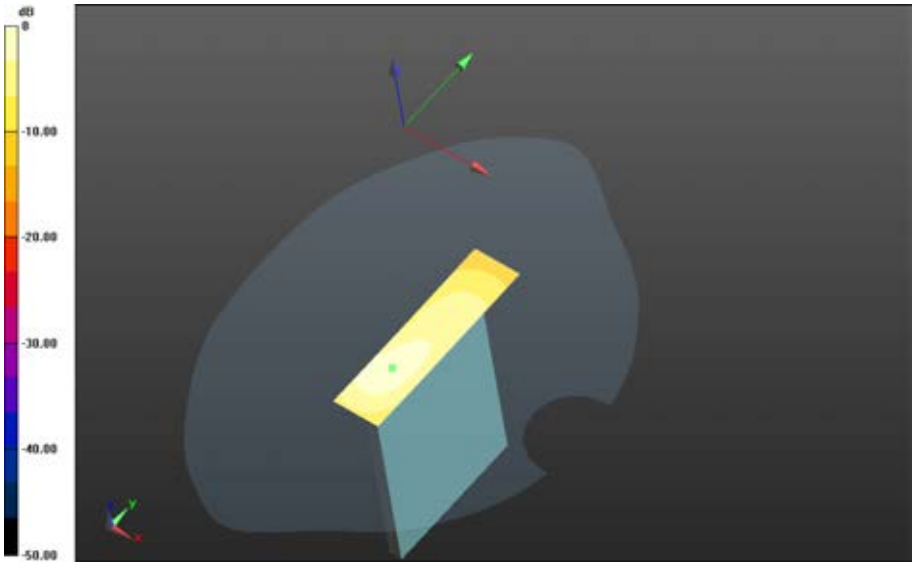
Fast SAR: SAR(1g) = 0.135 W/kg; SAR(10g) = 0.0766 W/kg
Maximum value of SAR (interpolated) = 0.150 W/kg



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

Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom - GPRS1900_2-slot_chan661_amb_temp_23.9C_liq_temp_22.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.148 V/m; **Power Drift = 0.00327 dB**

Fast SAR: SAR(1g) = 0.348 W/kg; SAR(10g) = 0.187 W/kg
Maximum value of SAR (interpolated) = 0.396 W/kg



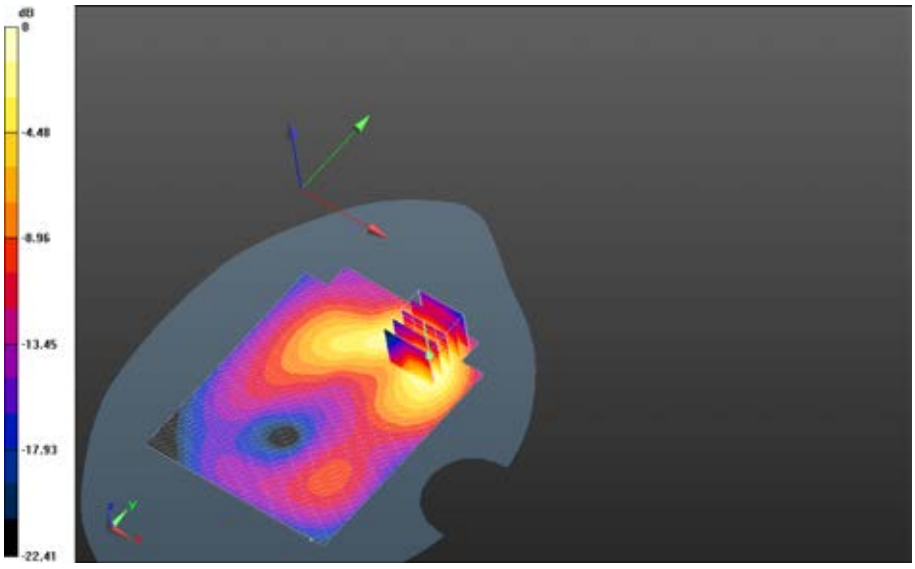
0 dB = 0.150 W/kg = -8.24 dBW/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back 2nd Scan - GPRS1900_2-slot_chan810_amb_temp_23.7C_liq_temp_22.1C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.731 V/m; **Power Drift = -0.190 dB**

Fast SAR: SAR(1g) = 0.689 W/kg; SAR(10g) = 0.368 W/kg
Maximum value of SAR (interpolated) = 0.805 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back 2nd Scan - GPRS1900_2-slot_chan810_amb_temp_23.7C_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 = 4.731 V/m; **Power Drift = -0.190 dB**

Averaged SAR: SAR(1g) = 0.676 W/kg; SAR(10g) = 0.353 W/kg
Maximum value of SAR (interpolated) = 1.14 W/kg



0 dB = 0.396 W/kg = -4.02 dBW/kg

UMTS Band II

Date: 4/29/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - 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; σ = 1.473 S/m; ε_r = 51.590; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

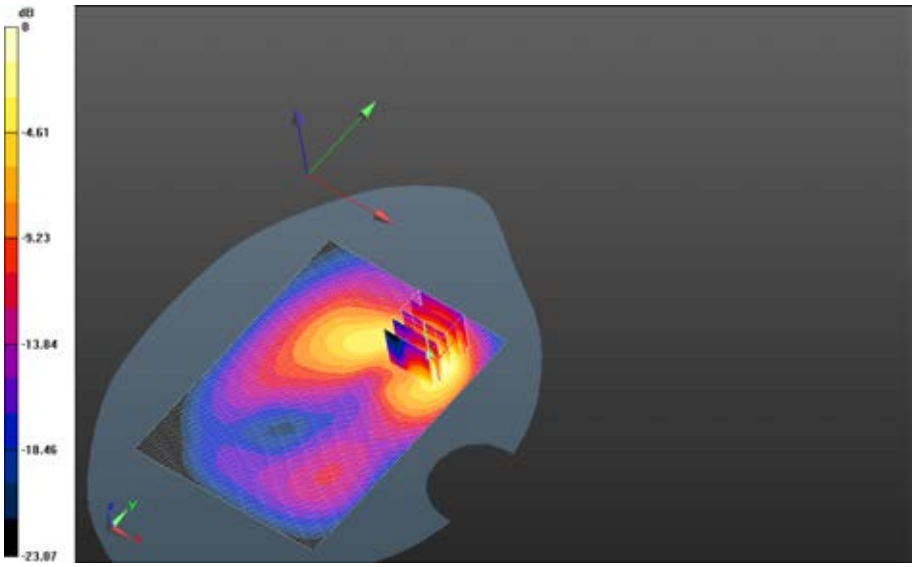
- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9262_amb_temp_23.4C_liq_temp_22.2C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.234 V/m; **Power Drift = 0.203 dB**

Fast SAR: SAR(1g) = 1.13 W/kg; SAR(10g) = 0.563 W/kg
Maximum value of SAR (interpolated) = 1.35 W/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9262_amb_temp_23.4C_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 = 7.234 V/m; **Power Drift = 0.203 dB**

Averaged SAR: SAR(1g) = 1.33 W/kg; SAR(10g) = 0.647 W/kg
Maximum value of SAR (interpolated) = 2.24 W/kg



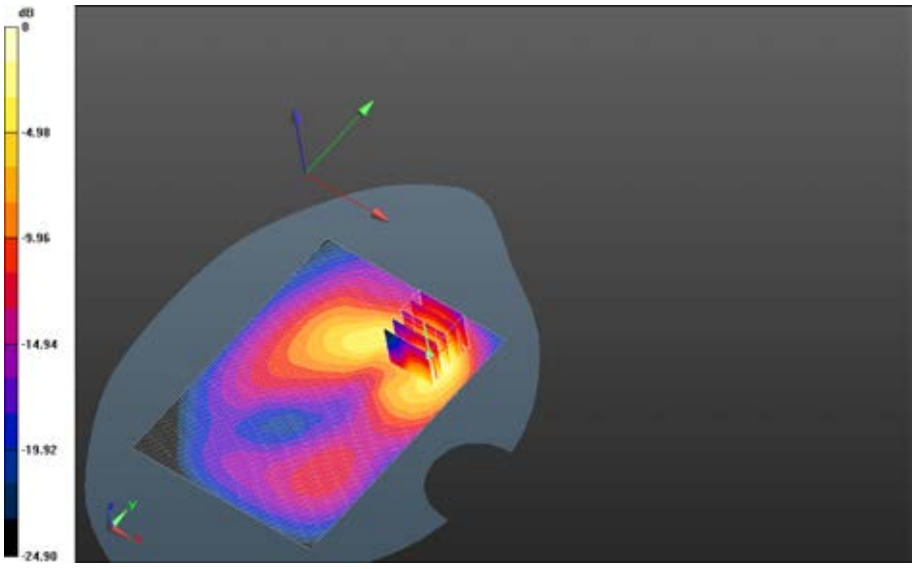
0 dB = 1.44 W/kg = 1.58 dBW/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9400_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.454 V/m; **Power Drift = 0.00847 dB**

Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.544 W/kg
Maximum value of SAR (interpolated) = 1.32 W/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9400_amb_temp_23.2C_liq_temp_22.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.454 V/m; **Power Drift = 0.00847 dB**

Averaged SAR: SAR(1g) = 1.25 W/kg; SAR(10g) = 0.613 W/kg
Maximum value of SAR (interpolated) = 2.15 W/kg



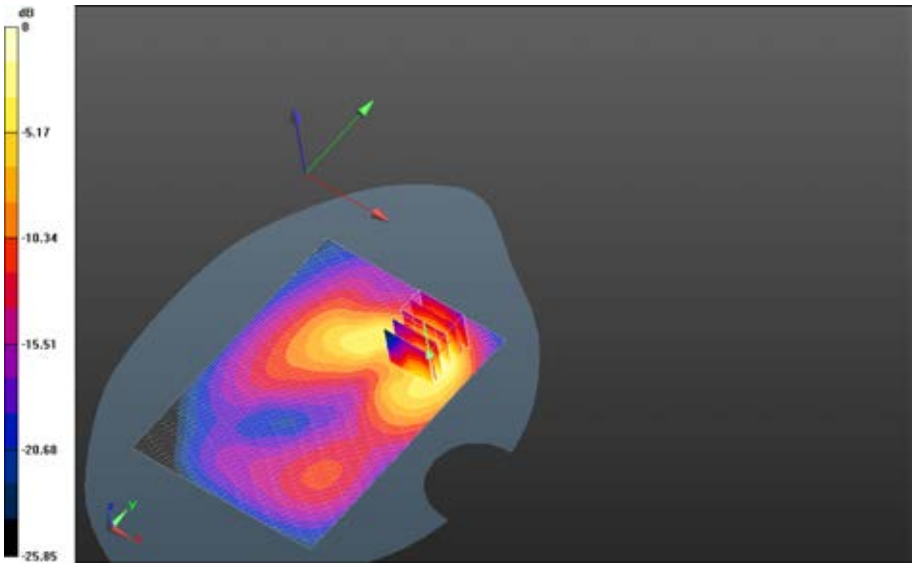
0 dB = 1.44 W/kg = 1.58 dBW/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9538_amb_temp_23.2C_liq_temp_22.3C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.706 V/m; **Power Drift = 0.032 dB**

Fast SAR: SAR(1g) = 0.928 W/kg; SAR(10g) = 0.465 W/kg
Maximum value of SAR (interpolated) = 1.13 W/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS II_chan9538_amb_temp_23.2C_liq_temp_22.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.706 V/m; **Power Drift = 0.032 dB**

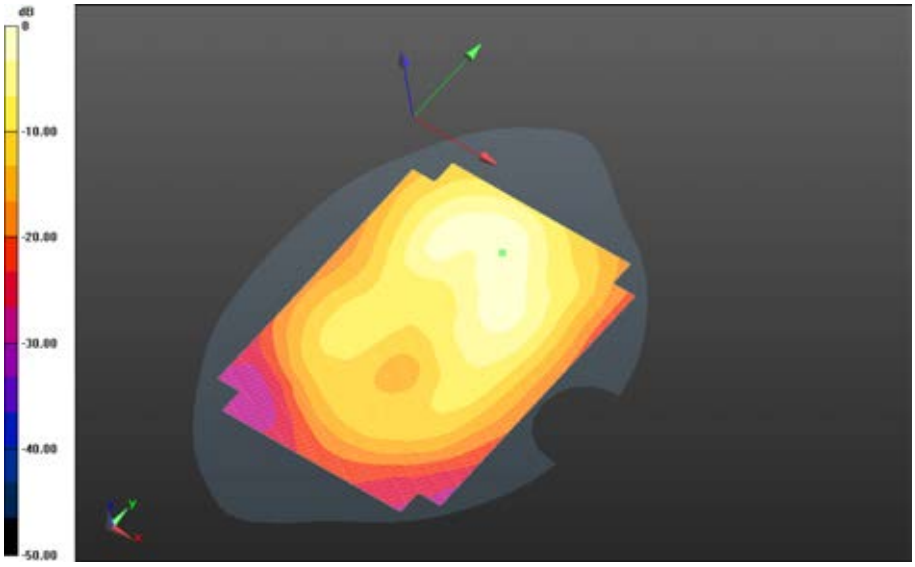
Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.517 W/kg
Maximum value of SAR (interpolated) = 1.79 W/kg



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

Mobile Hot Spot MSL - UMTS II/10mm Device Front - UMTS II_chan9400_amb_temp_23.1C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.194 V/m; **Power Drift = -0.010 dB**

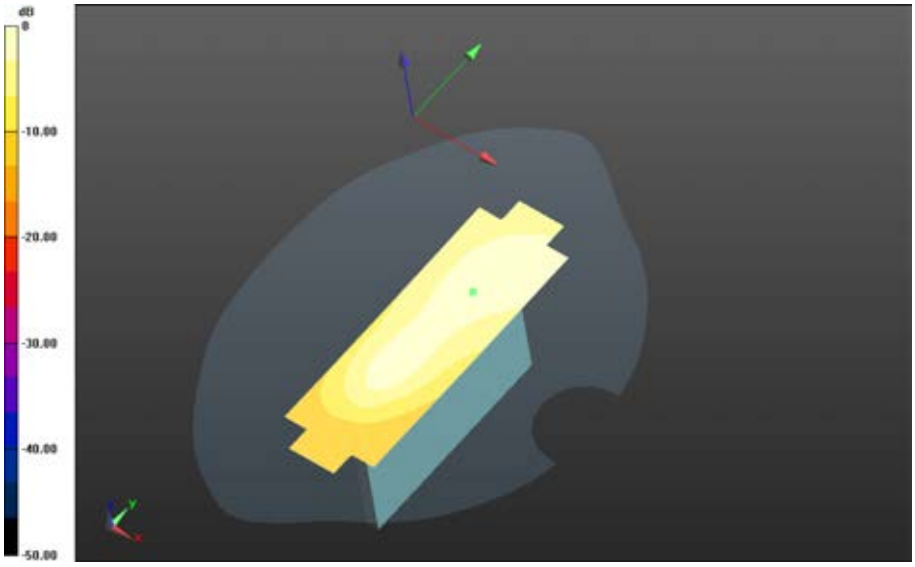
Fast SAR: SAR(1g) = 0.267 W/kg; SAR(10g) = 0.149 W/kg
Maximum value of SAR (interpolated) = 0.308 W/kg



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

Mobile Hot Spot MSL - UMTS II/10mm Device Left - UMTS II_chan9400_amb_temp_23.5C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.318 V/m; **Power Drift = -0.027 dB**

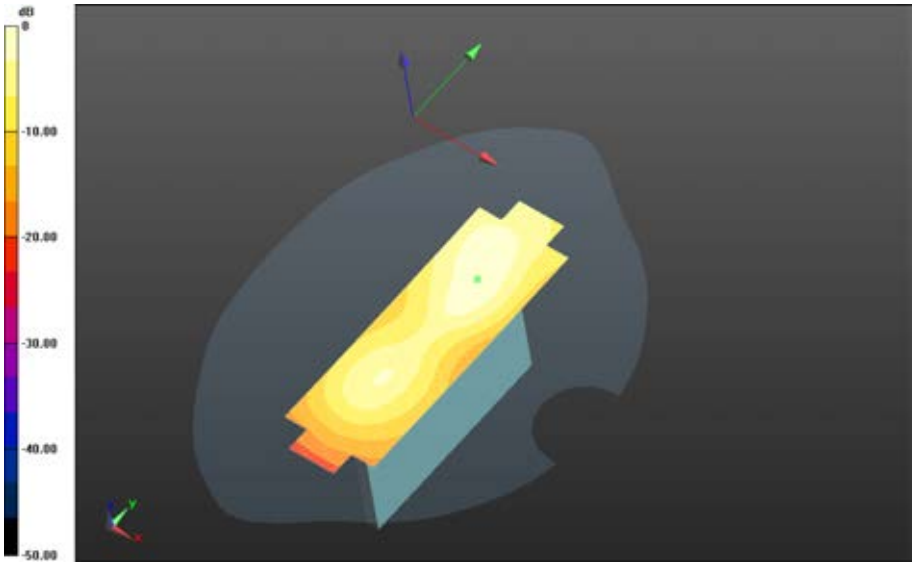
Fast SAR: SAR(1g) = 0.0571 W/kg; SAR(10g) = 0.0327 W/kg
Maximum value of SAR (interpolated) = 0.0637 W/kg



0 dB = 0.308 W/kg = -5.11 dBW/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Right - UMTS II_chan9400_amb_temp_23.1C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.554 V/m; **Power Drift = -0.00545 dB**

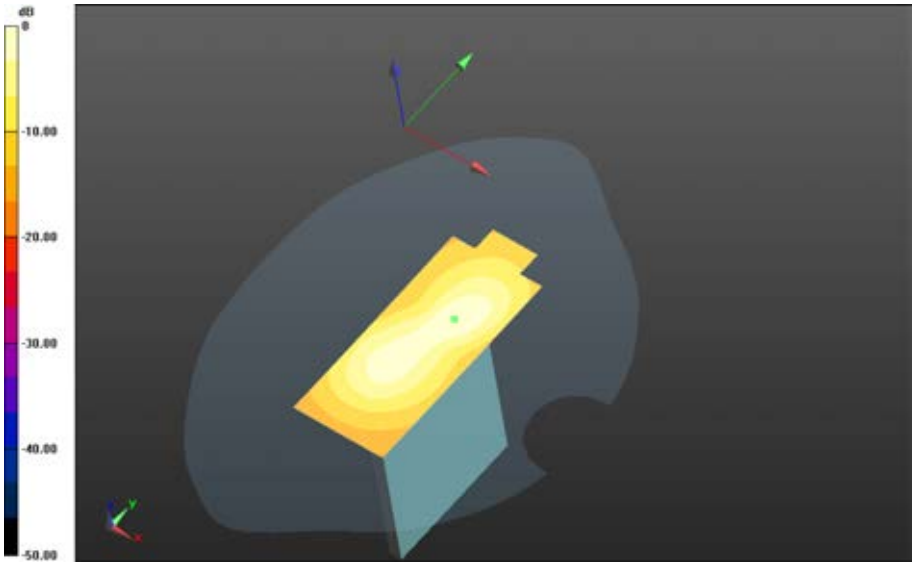
Fast SAR: SAR(1g) = 0.146 W/kg; SAR(10g) = 0.0817 W/kg
Maximum value of SAR (interpolated) = 0.164 W/kg



0 dB = 0.0637 W/kg = -11.96 dBW/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Bottom - UMTS II_chan9400_amb_temp_23.1C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.834 V/m; **Power Drift = 0.088 dB**

Fast SAR: SAR(1g) = 0.443 W/kg; SAR(10g) = 0.233 W/kg
Maximum value of SAR (interpolated) = 0.528 W/kg



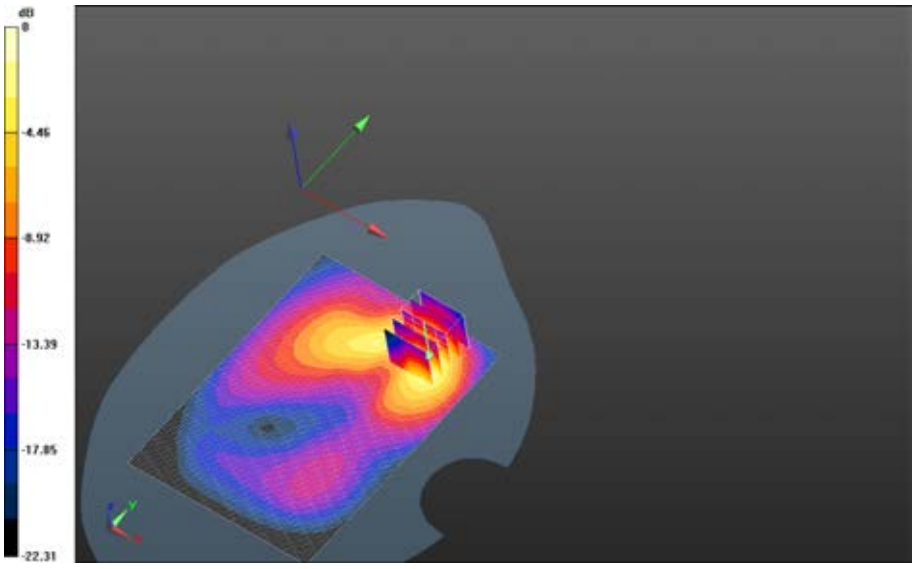
0 dB = 0.164 W/kg = -7.85 dBW/kg

Mobile Hot Spot MSL - UMTS II/Headset 10mm Device Back - UMTS II_chan9262_amb_temp_23.1C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.829 V/m; **Power Drift = 0.00854 dB**

Fast SAR: SAR(1g) = 1.00 W/kg; SAR(10g) = 0.516 W/kg
Maximum value of SAR (interpolated) = 1.23 W/kg

Mobile Hot Spot MSL - UMTS II/Headset 10mm Device Back - UMTS II_chan9262_amb_temp_23.1C_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 = 4.829 V/m; **Power Drift = 0.00854 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.599 W/kg
Maximum value of SAR (interpolated) = 2.07 W/kg



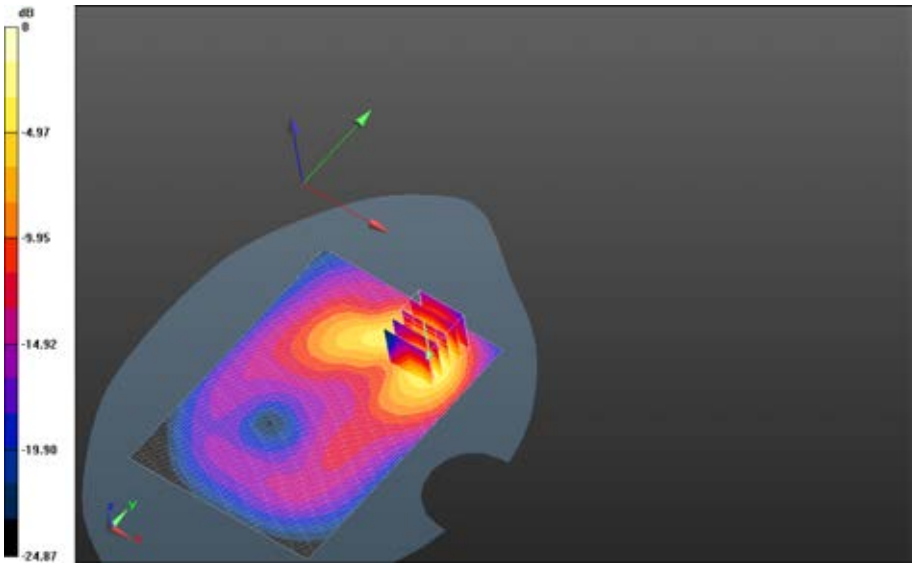
0 dB = 0.528 W/kg = -2.77 dBW/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back HSUPA - UMTS II_chan9262_amb_temp_23.3C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.717 V/m; **Power Drift = 0.014 dB**

Fast SAR: SAR(1g) = 0.889 W/kg; SAR(10g) = 0.458 W/kg
Maximum value of SAR (interpolated) = 1.04 W/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back HSUPA - UMTS II_chan9262_amb_temp_23.3C_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 = 5.717 V/m; **Power Drift = 0.014 dB**

Averaged SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.532 W/kg
Maximum value of SAR (interpolated) = 1.83 W/kg



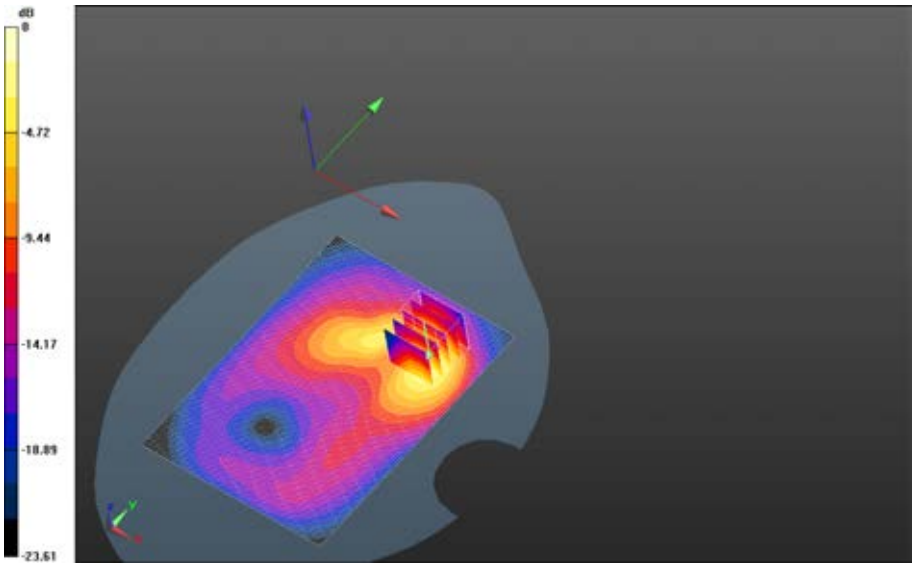
0 dB = 1.39 W/kg = 1.43 dBW/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back HSDPA - UMTS II_chan9262_amb_temp_23.3C_liq_temp_21.5C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.585 V/m; **Power Drift = 0.109 dB**

Fast SAR: SAR(1g) = 0.912 W/kg; SAR(10g) = 0.448 W/kg
Maximum value of SAR (interpolated) = 1.17 W/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back HSDPA - UMTS II_chan9262_amb_temp_23.3C_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 = 6.585 V/m; **Power Drift = 0.109 dB**

Averaged SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.527 W/kg
Maximum value of SAR (interpolated) = 1.76 W/kg



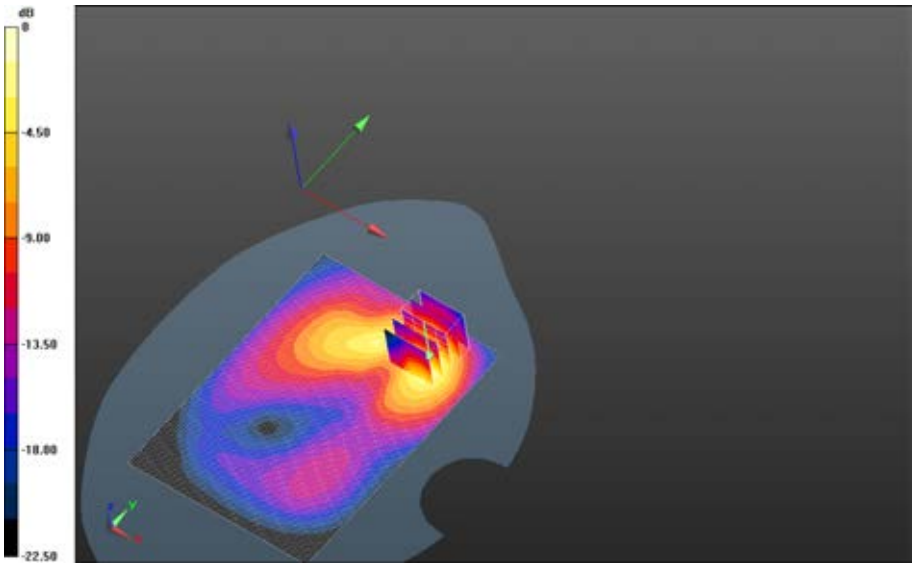
0 dB = 1.27 W/kg = 1.04 dBW/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back 2nd Scan - UMTS II_chan9262_amb_temp_24.2C_liq_temp_21.6C/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.998 V/m; **Power Drift = -0.012 dB**

Fast SAR: SAR(1g) = 0.980 W/kg; SAR(10g) = 0.503 W/kg
Maximum value of SAR (interpolated) = 1.20 W/kg

Mobile Hot Spot MSL - UMTS II/10mm Device Back 2nd Scan - UMTS II_chan9262_amb_temp_24.2C_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 = 4.998 V/m; **Power Drift = -0.012 dB**

Averaged SAR: SAR(1g) = 1.20 W/kg; SAR(10g) = 0.586 W/kg
Maximum value of SAR (interpolated) = 2.03 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

802.11b

Date: 5/21/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - 802.11b

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; σ = 1.996 S/m; ε_r = 50.931; ρ = 1.000 g/cm^3
Phantom section: Flat Section

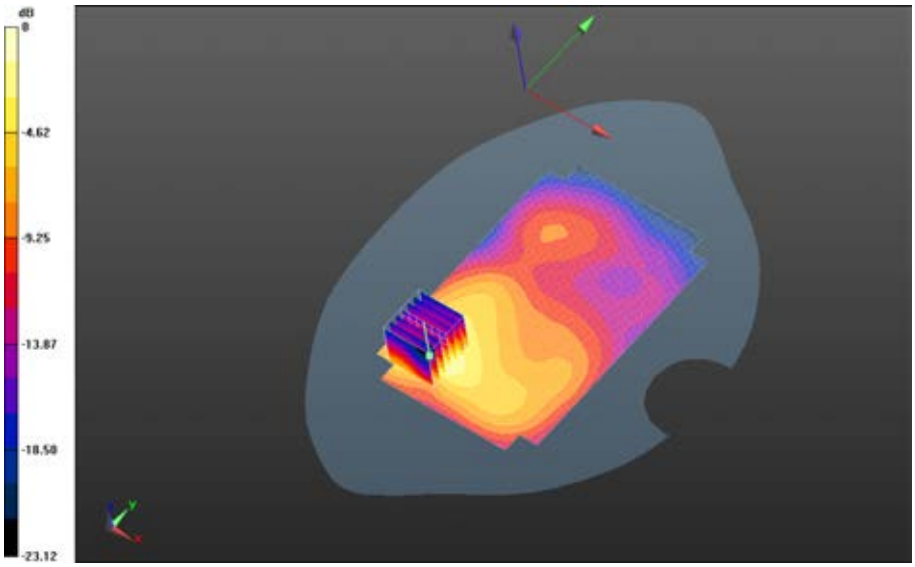
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.28,4.28,4.28); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan6_amb_temp_23.5C_liq_temp_21.9C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.368 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan6_amb_temp_23.5C_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 = 4.672 V/m; **Power Drift = -0.066 dB**

Averaged SAR: SAR(1g) = 0.277 W/kg; SAR(10g) = 0.133 W/kg
Maximum value of SAR (interpolated) = 0.563 W/kg

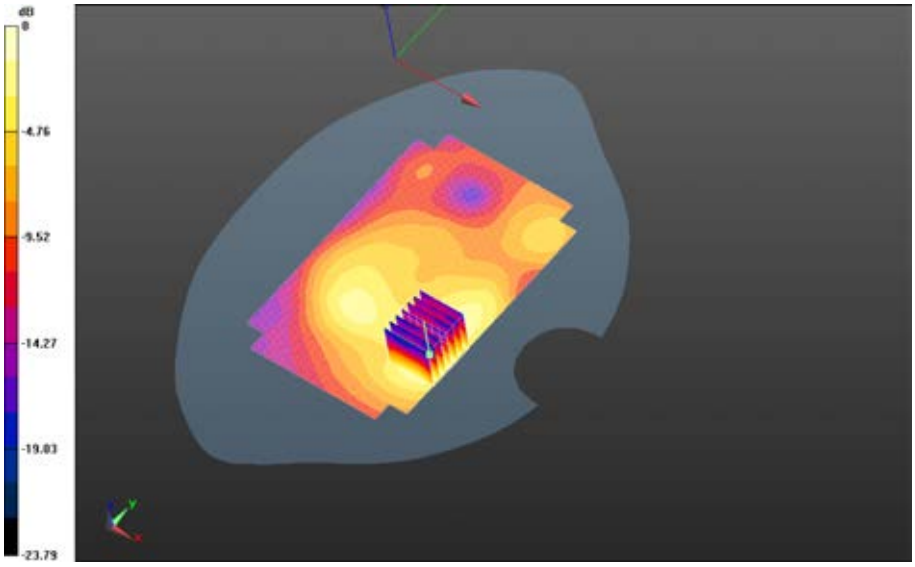


0 dB = 0.368 W/kg = -4.34 dBW/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Front - 802.11b_chan6_amb_temp_23.8C_liq_temp_22.1C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0715 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Front - 802.11b_chan6_amb_temp_23.8C_liq_temp_22.1C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 3.011 V/m; **Power Drift = 0.175 dB**

Averaged SAR: SAR(1g) = 0.0552 W/kg; SAR(10g) = 0.0291 W/kg
Maximum value of SAR (interpolated) = 0.106 W/kg

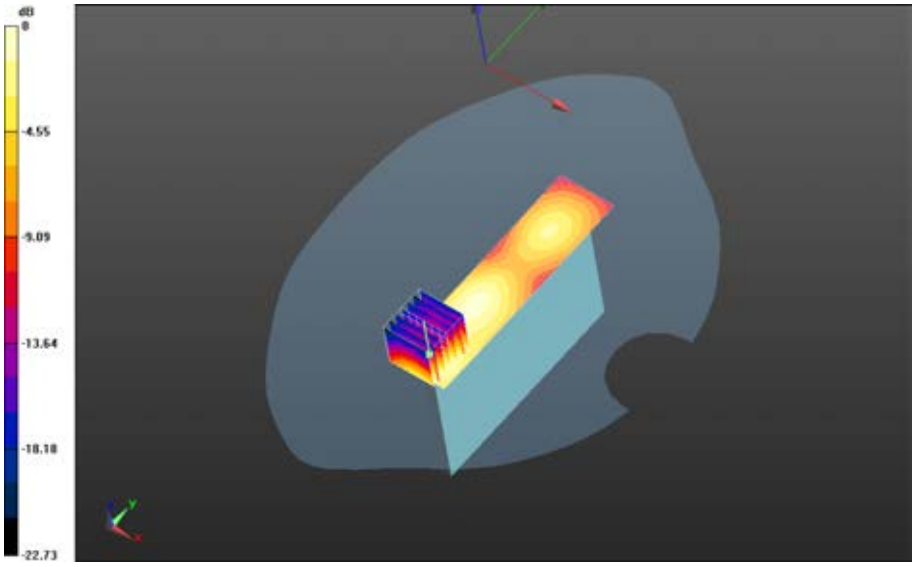


0 dB = 0.369 W/kg = -4.33 dBW/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Left - 802.11b_chan6_amb_temp_C_liq_temp_C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.103 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Left - 802.11b_chan6_amb_temp_C_liq_temp_C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.745 V/m; **Power Drift = -0.028 dB**

Averaged SAR: SAR(1g) = 0.0792 W/kg; SAR(10g) = 0.0395 W/kg
Maximum value of SAR (interpolated) = 0.162 W/kg

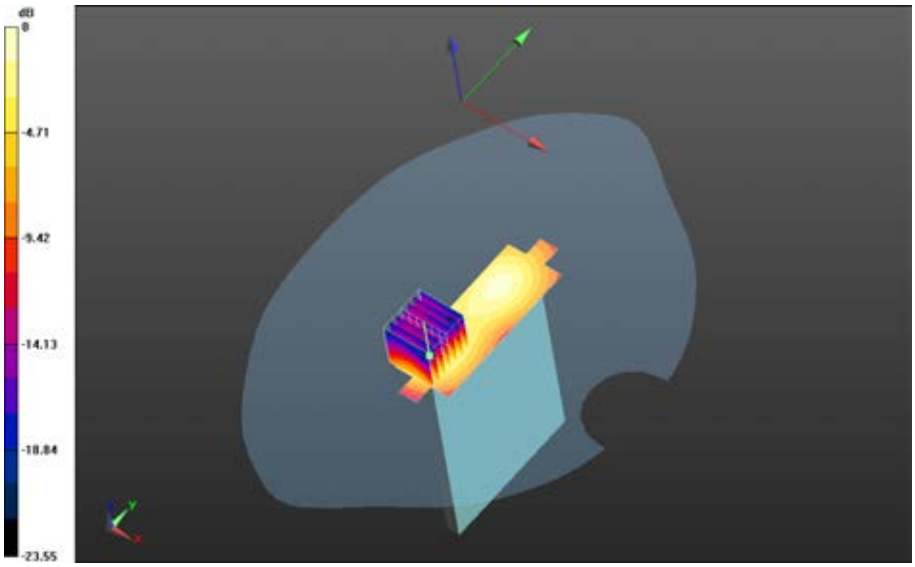


0 dB = 0.0697 W/kg = -11.57 dBW/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Top - 802.11b_chan6_amb_temp_23.8C_liq_temp_22.1C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.153 W/kg
10g avg. SAR maximum on border.

Mobile Hot Spot MSL - 802.11b/10mm Device Top - 802.11b_chan6_amb_temp_23.8C_liq_temp_22.1C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 6.148 V/m; **Power Drift = -0.019 dB**

Averaged SAR: SAR(1g) = 0.119 W/kg; SAR(10g) = 0.0587 W/kg
Maximum value of SAR (interpolated) = 0.236 W/kg



0 dB = 0.0988 W/kg = -10.05 dBW/kg

Bluetooth

Date: 5/20/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - BT

Communication System: Bluetooth (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz
Medium Parameters used: f=2441 MHz; σ = 2.001 S/m; ε_r = 50.918; ρ = 1.000 g/cm^3
Phantom section: Flat Section

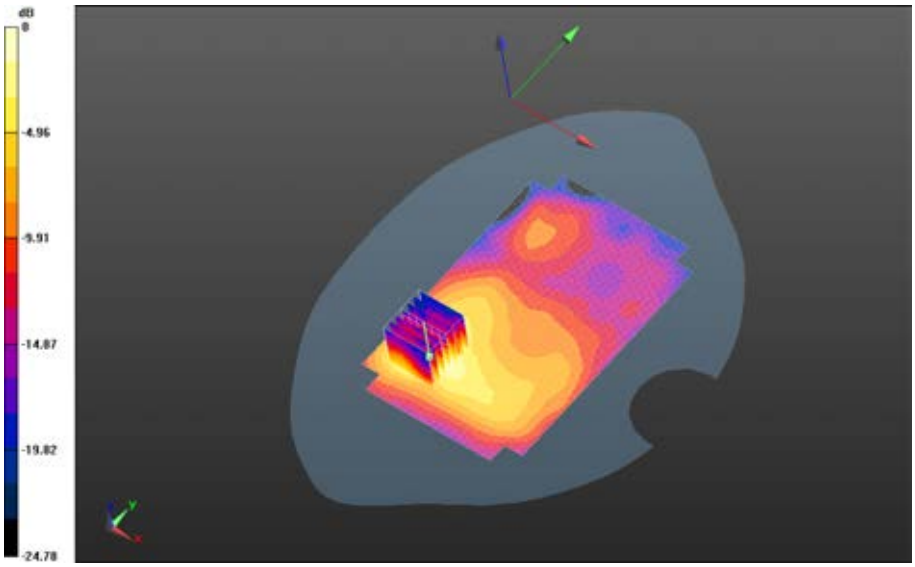
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.28,4.28,4.28); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - BT/10mm Device Back - Bluetooth_chan39_amb_temp_23.9C_liq_temp_22.0C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0510 W/kg

Mobile Hot Spot MSL - BT/10mm Device Back - Bluetooth_chan39_amb_temp_23.9C_liq_temp_22.0C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.795 V/m; **Power Drift = 0.140 dB**

Averaged SAR: SAR(1g) = 0.0424 W/kg; SAR(10g) = 0.0197 W/kg
Maximum value of SAR (interpolated) = 0.0877 W/kg

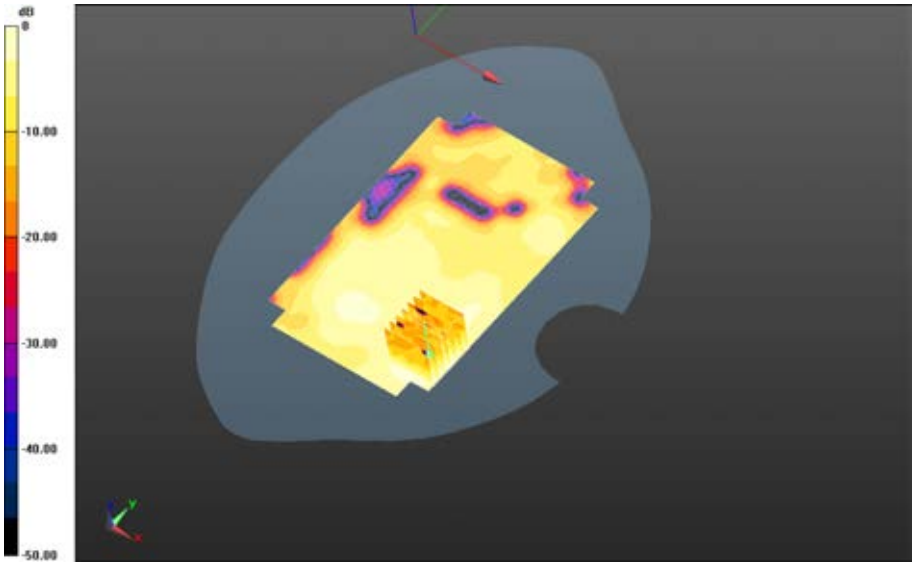


0 dB = 0.0534 W/kg = -12.72 dBW/kg

Mobile Hot Spot MSL - BT/10mm Device Front - Bluetooth_chan39_amb_temp_23.8C_liq_temp_22.0C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00855 W/kg

Mobile Hot Spot MSL - BT/10mm Device Front - Bluetooth_chan39_amb_temp_23.8C_liq_temp_22.0C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.087 V/m; **Power Drift = -0.081 dB**

Averaged SAR: SAR(1g) = 0.00702 W/kg; SAR(10g) = 0.00360 W/kg
Maximum value of SAR (interpolated) = 0.0135 W/kg

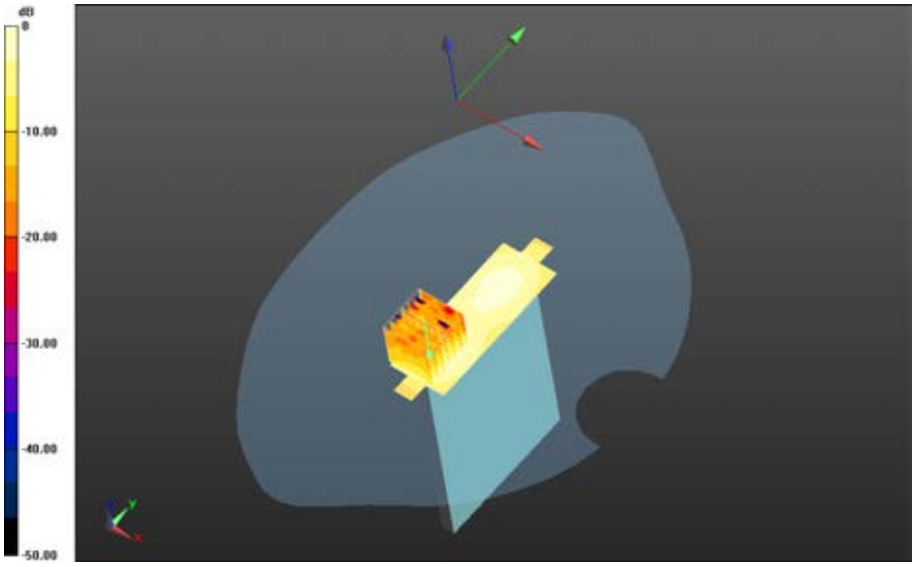


0 dB = 0.0534 W/kg = -12.72 dBW/kg

Mobile Hot Spot MSL - BT/10mm Device Top - Bluetooth_chan39_amb_temp_23.9C_liq_temp_21.9C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0228 W/kg

Mobile Hot Spot MSL - BT/10mm Device Top - Bluetooth_chan39_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 = 2.312 V/m; **Power Drift = 0.020 dB**

Averaged SAR: SAR(1g) = 0.0175 W/kg; SAR(10g) = 0.00832 W/kg
Maximum value of SAR (interpolated) = 0.0343 W/kg



0 dB = 0.00876 W/kg = -20.57 dBW/kg

LTE Band 7

Date: 5/22/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - LTE 7

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2510 MHz
Medium Parameters used: f=2510 MHz; σ = 2.092 S/m; ε_r = 50.621; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

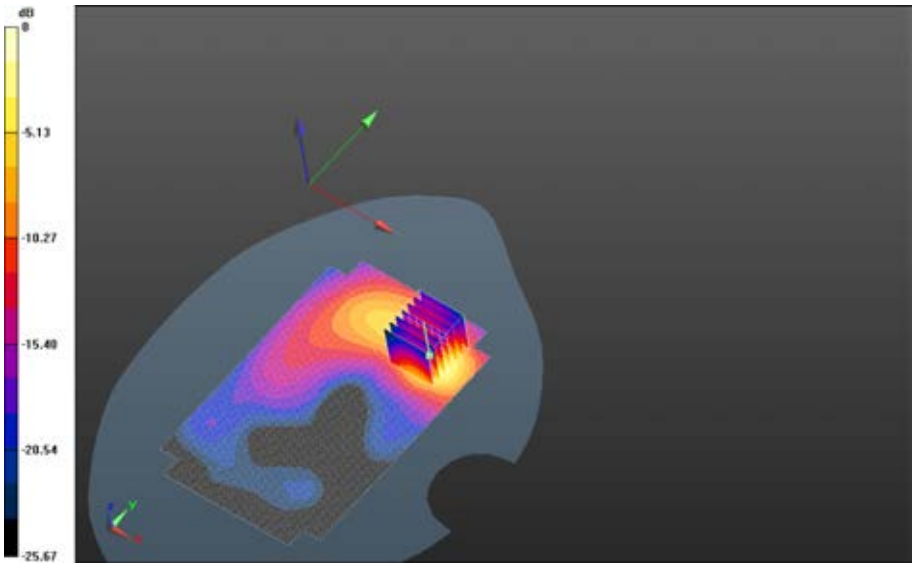
- Probe: ES3DV3 - SN3225; ConvF: (4.03,4.03,4.03); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_22.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.993 V/m; **Power Drift = -0.183 dB**

Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.464 W/kg
Maximum value of SAR (interpolated) = 1.44 W/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_22.4C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.993 V/m; **Power Drift = -0.183 dB**

Averaged SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.473 W/kg
Maximum value of SAR (interpolated) = 2.35 W/kg



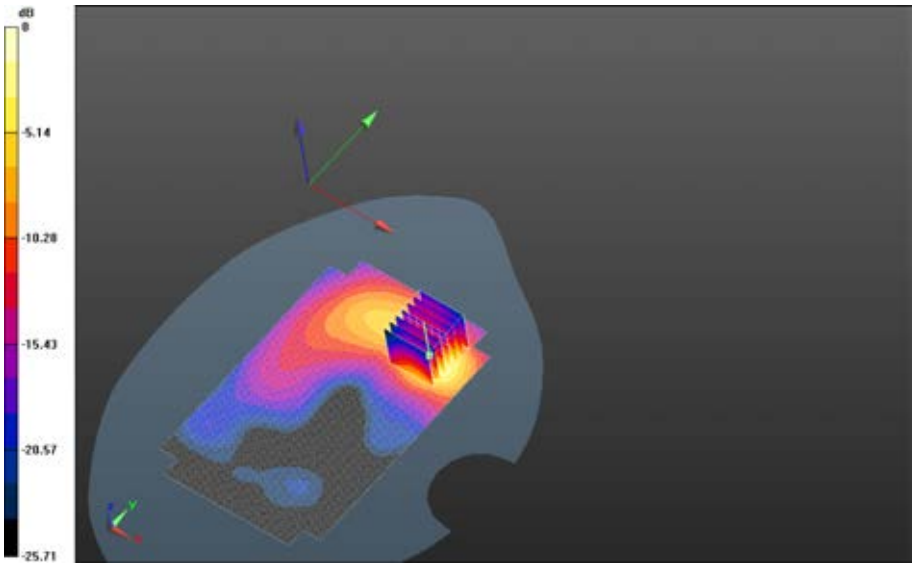
0 dB = 1.41 W/kg = 1.49 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan21100_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_22.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.738 V/m; **Power Drift = 0.158 dB**

Fast SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.469 W/kg
Maximum value of SAR (interpolated) = 1.46 W/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan21100_20MHz_BW_RB1_Offset_Mid_amb_temp_23.9C_liq_temp_22.4C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.738 V/m; **Power Drift = 0.158 dB**

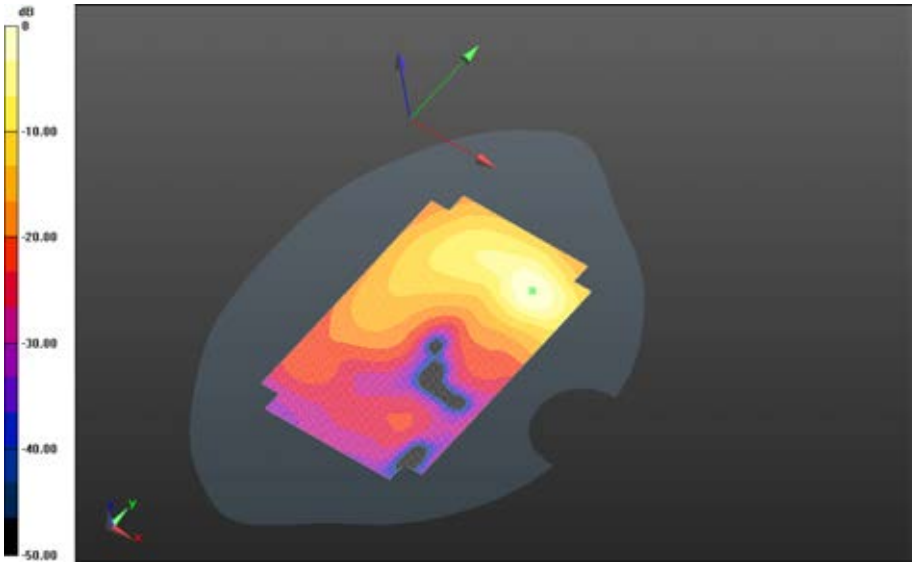
Averaged SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.479 W/kg
Maximum value of SAR (interpolated) = 2.40 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan21350_20MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_22.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.470 V/m; **Power Drift = -0.107 dB**

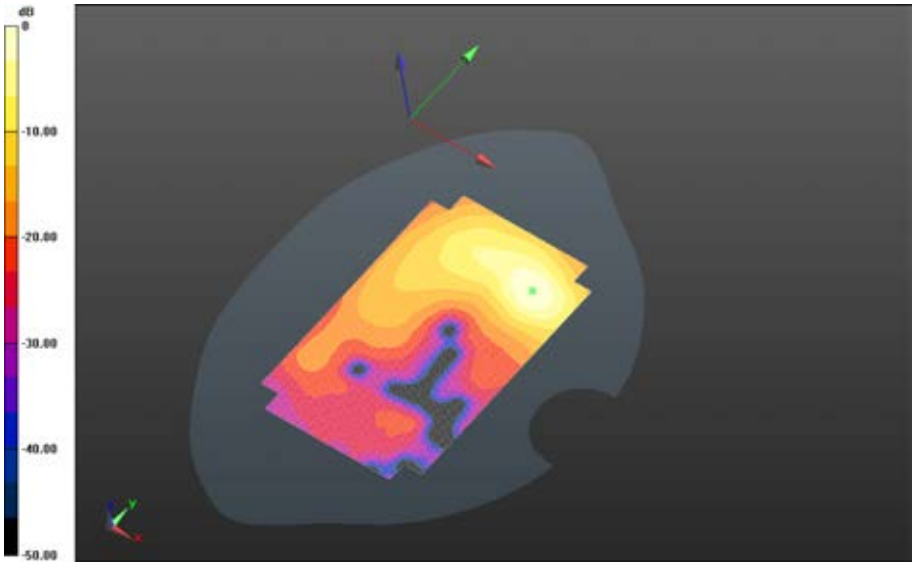
Fast SAR: SAR(1g) = 1.01 W/kg; SAR(10g) = 0.452 W/kg
Maximum value of SAR (interpolated) = 1.42 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan20850_20MHz_BW_RB50_Offset_High_amb_temp_24.0C_liq_temp_22.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.699 V/m; **Power Drift = 0.025 dB**

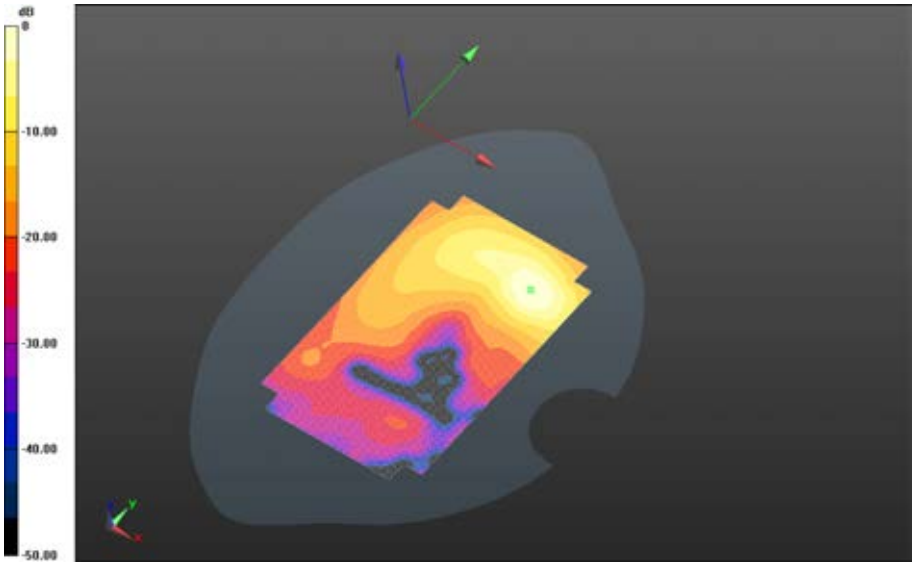
Fast SAR: SAR(1g) = 0.504 W/kg; SAR(10g) = 0.227 W/kg
Maximum value of SAR (interpolated) = 0.707 W/kg



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

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan21100_20MHz_BW_RB50_Offset_High_amb_temp_24.3C_liq_temp_22.3C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.317 V/m; **Power Drift = 0.361 dB**

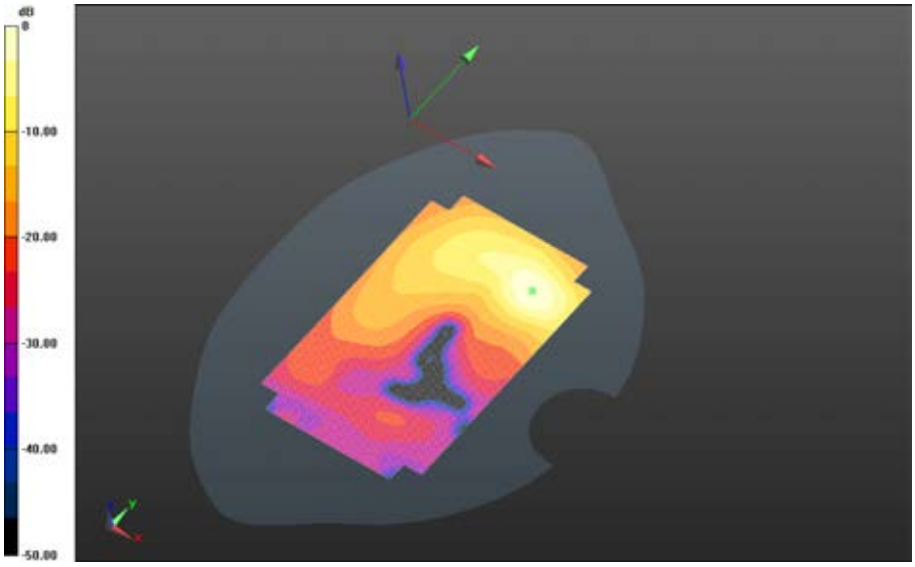
Fast SAR: SAR(1g) = 0.507 W/kg; SAR(10g) = 0.228 W/kg
Maximum value of SAR (interpolated) = 0.715 W/kg



0 dB = 0.707 W/kg = -1.51 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan21350_20MHz_BW_RB50_Offset_High_amb_temp_23.8C_liq_temp_22.3C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.117 V/m; **Power Drift = 0.337 dB**

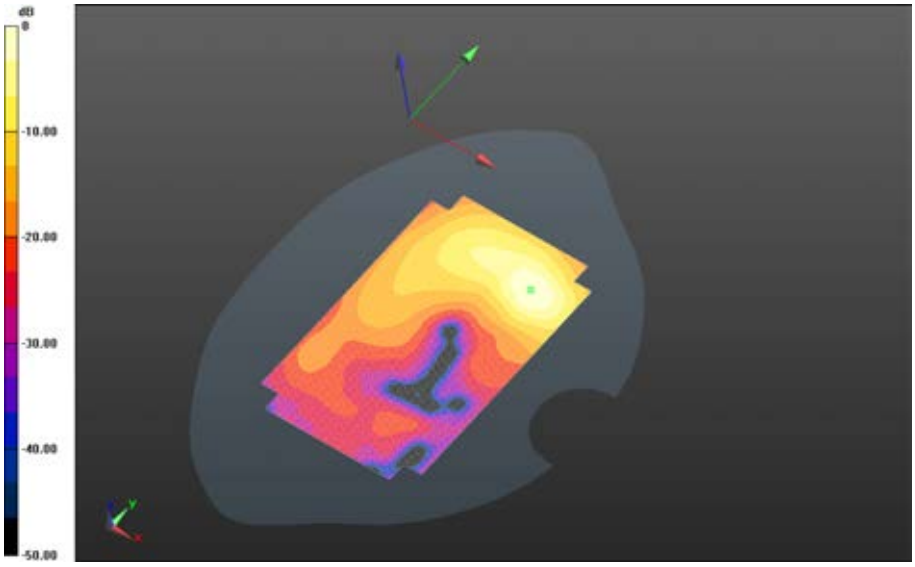
Fast SAR: SAR(1g) = 0.501 W/kg; SAR(10g) = 0.224 W/kg
Maximum value of SAR (interpolated) = 0.707 W/kg



0 dB = 0.715 W/kg = -1.46 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan20850_20MHz_BW_RB100_Offset_Low_amb_temp_24.0C_liq_temp_22.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.339 V/m; **Power Drift = 0.060 dB**

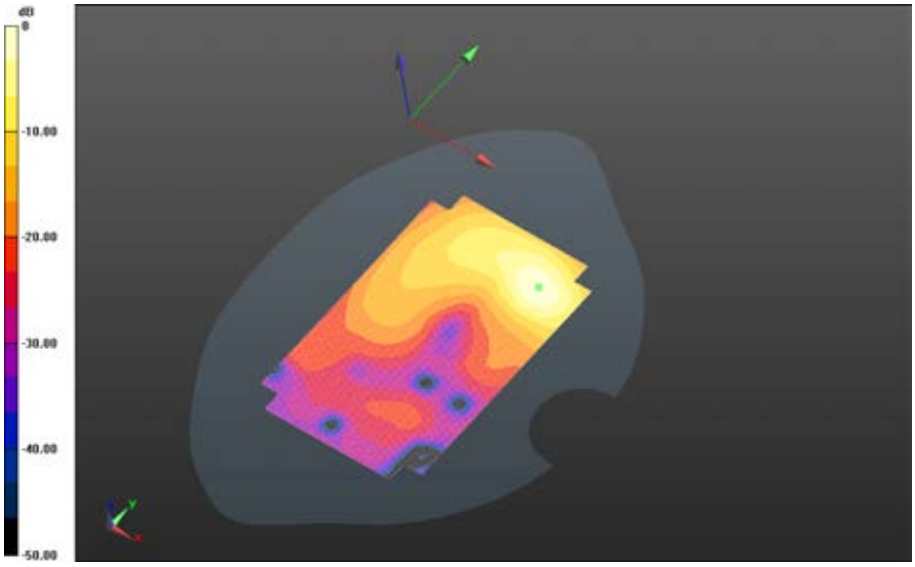
Fast SAR: SAR(1g) = 0.515 W/kg; SAR(10g) = 0.232 W/kg
Maximum value of SAR (interpolated) = 0.724 W/kg



0 dB = 0.707 W/kg = -1.51 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan21100_20MHz_BW_RB100_Offset_Low_amb_temp_23.7C_liq_temp_22.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.529 V/m; **Power Drift = -0.036 dB**

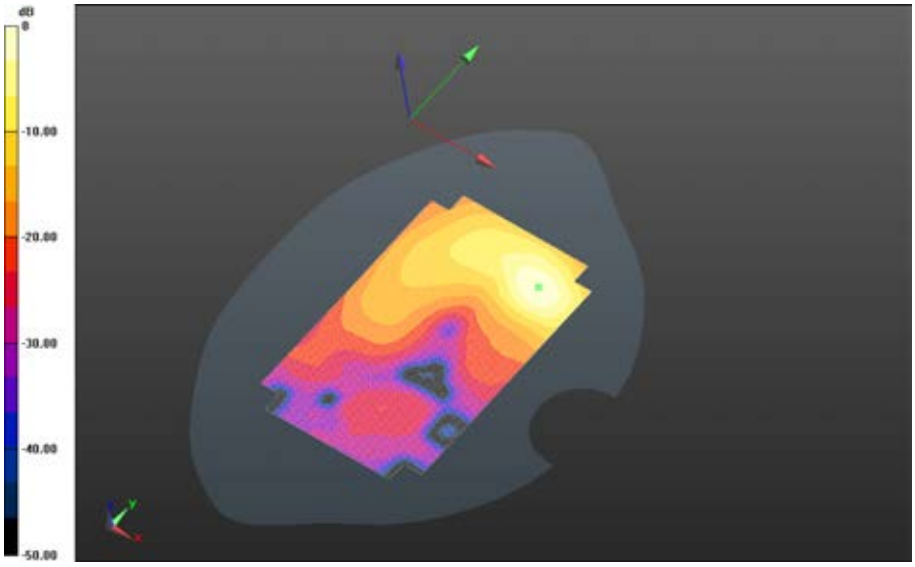
Fast SAR: SAR(1g) = 0.531 W/kg; SAR(10g) = 0.232 W/kg
Maximum value of SAR (interpolated) = 0.731 W/kg



0 dB = 0.724 W/kg = -1.40 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band 7_chan21350_20MHz_BW_RB100_Offset_Low_amb_temp_24.0C_liq_temp_22.3C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.368 V/m; **Power Drift = 0.364 dB**

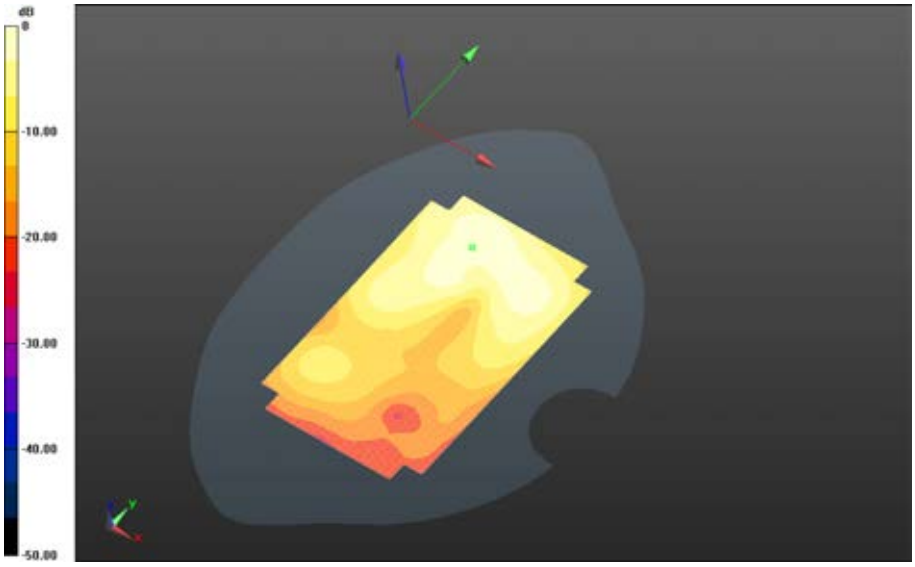
Fast SAR: SAR(1g) = 0.559 W/kg; SAR(10g) = 0.243 W/kg
Maximum value of SAR (interpolated) = 0.771 W/kg



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

Mobile Hot Spot MSL - LTE 7/10mm Device Front - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_22.3C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.306 V/m; **Power Drift = 0.057 dB**

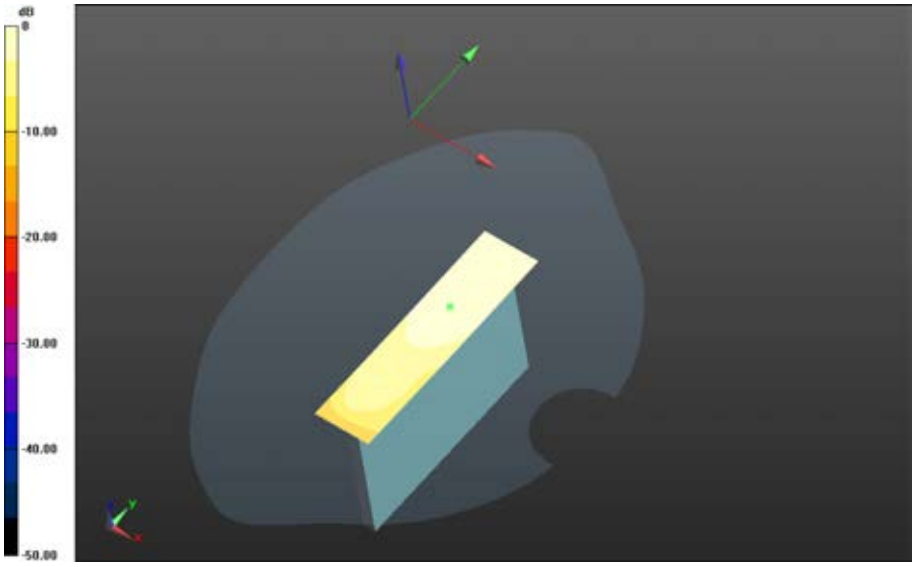
Fast SAR: SAR(1g) = 0.200 W/kg; SAR(10g) = 0.106 W/kg
Maximum value of SAR (interpolated) = 0.258 W/kg



0 dB = 0.771 W/kg = -1.13 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Left - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.2C_liq_temp_22.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 3.559 V/m; **Power Drift = 0.088 dB**

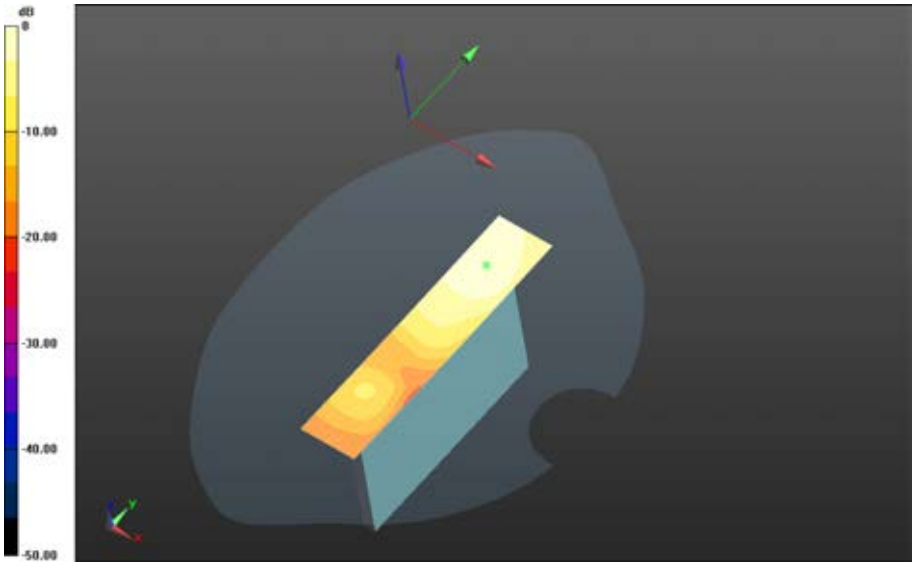
Fast SAR: SAR(1g) = 0.0319 W/kg; SAR(10g) = 0.0179 W/kg
Maximum value of SAR (interpolated) = 0.0393 W/kg



0 dB = 0.258 W/kg = -5.88 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Right - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.2C_liq_temp_22.3C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.885 V/m; **Power Drift = -0.018 dB**

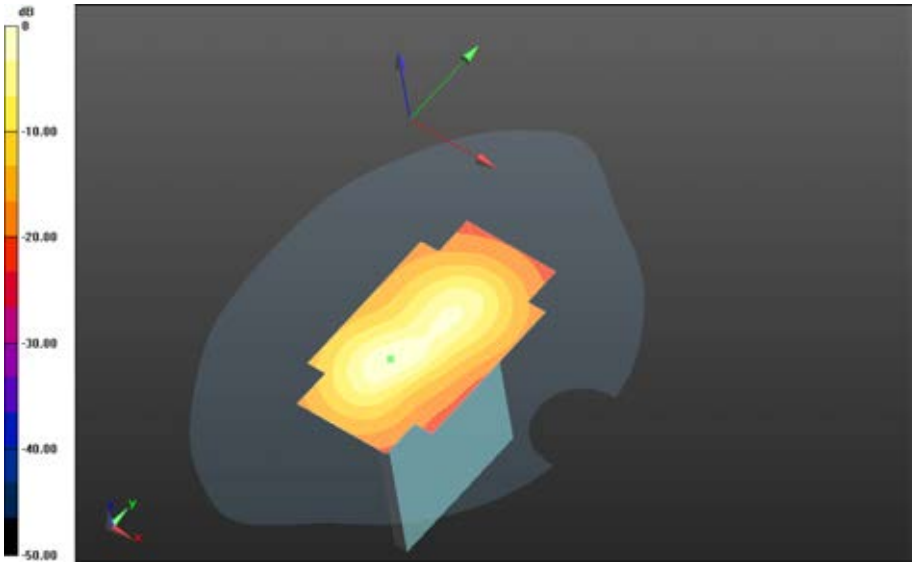
Fast SAR: SAR(1g) = 0.102 W/kg; SAR(10g) = 0.0569 W/kg
Maximum value of SAR (interpolated) = 0.126 W/kg



0 dB = 0.0393 W/kg = -14.06 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Bottom - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.3C_liq_temp_22.3C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 15.549 V/m; **Power Drift = -0.023 dB**

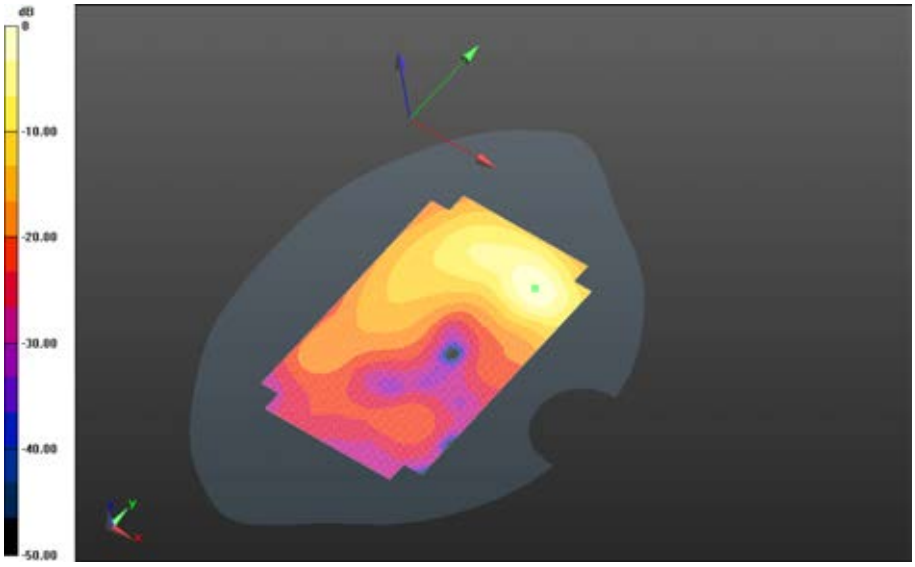
Fast SAR: SAR(1g) = 0.718 W/kg; SAR(10g) = 0.336 W/kg
Maximum value of SAR (interpolated) = 0.958 W/kg



0 dB = 0.126 W/kg = -9.00 dBW/kg

Mobile Hot Spot MSL - LTE 7/Headset 10mm Device Back - LTE band 7_chan20850_20MHz_BW_RB1_Offset_Mid_amb_temp_24.0C_liq_temp_22.0C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.296 V/m; **Power Drift = -0.099 dB**

Fast SAR: SAR(1g) = 0.987 W/kg; SAR(10g) = 0.442 W/kg
Maximum value of SAR (interpolated) = 1.36 W/kg



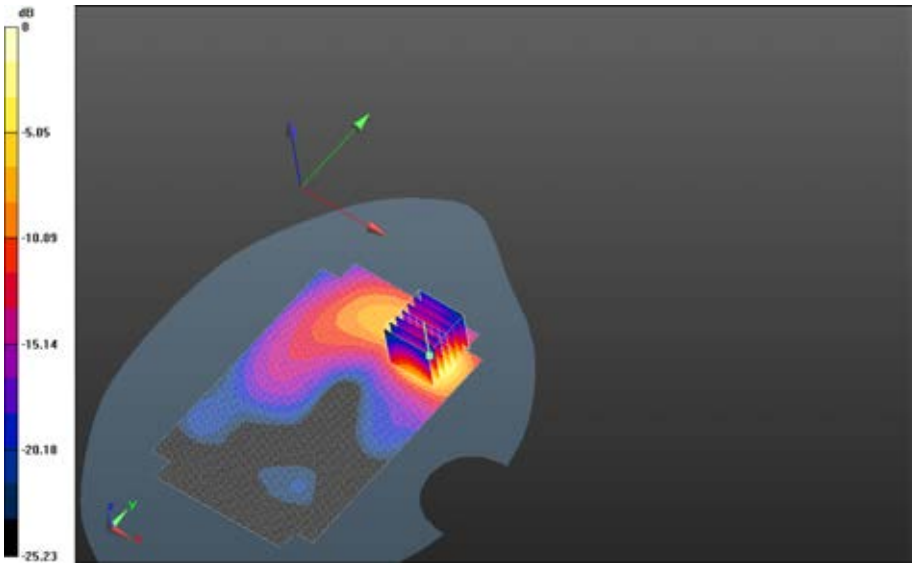
0 dB = 0.958 W/kg = -0.19 dBW/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back 2nd Scan- LTE band 7_chan21100_20MHz_BW_RB1_Offset_Mid_amb_temp_24.1C_liq_temp_22.4C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 1.831 V/m; **Power Drift = 0.191 dB**

Fast SAR: SAR(1g) = 0.989 W/kg; SAR(10g) = 0.432 W/kg
Maximum value of SAR (interpolated) = 1.36 W/kg

Mobile Hot Spot MSL - LTE 7/10mm Device Back 2nd Scan- LTE band 7_chan21100_20MHz_BW_RB1_Offset_Mid_amb_temp_24.1C_liq_temp_22.4C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 1.831 V/m; **Power Drift = 0.191 dB**

Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.452 W/kg
Maximum value of SAR (interpolated) = 2.24 W/kg



0 dB = 1.36 W/kg = 1.34 dBW/kg

LTE Band 7 Rev 2

Date: 6/6/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF4703

Configuration: Mobile Hot Spot MSL - LTE 7 Rev2

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2510 MHz
Medium Parameters used: f=2510 MHz; σ = 2.089 S/m; ε_r = 50.993; ρ = 1.000 g/cm^3
Phantom section: Flat Section

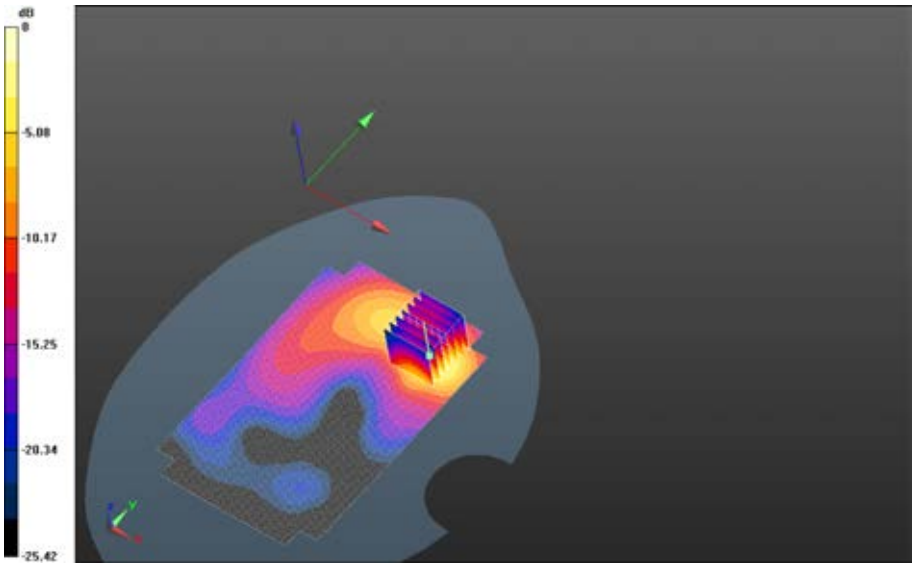
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.03,4.03,4.03); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE 7 Rev2/10mm Device Back - LTE band 7_chan20850_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.5C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.803 V/m; **Power Drift = 0.074 dB**

Mobile Hot Spot MSL - LTE 7 Rev2/10mm Device Back - LTE band 7_chan20850_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.5C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 2.803 V/m; **Power Drift = 0.074 dB**

Averaged SAR: SAR(1g) = 1.32 W/kg; SAR(10g) = 0.606 W/kg
Maximum value of SAR (interpolated) = 2.88 W/kg

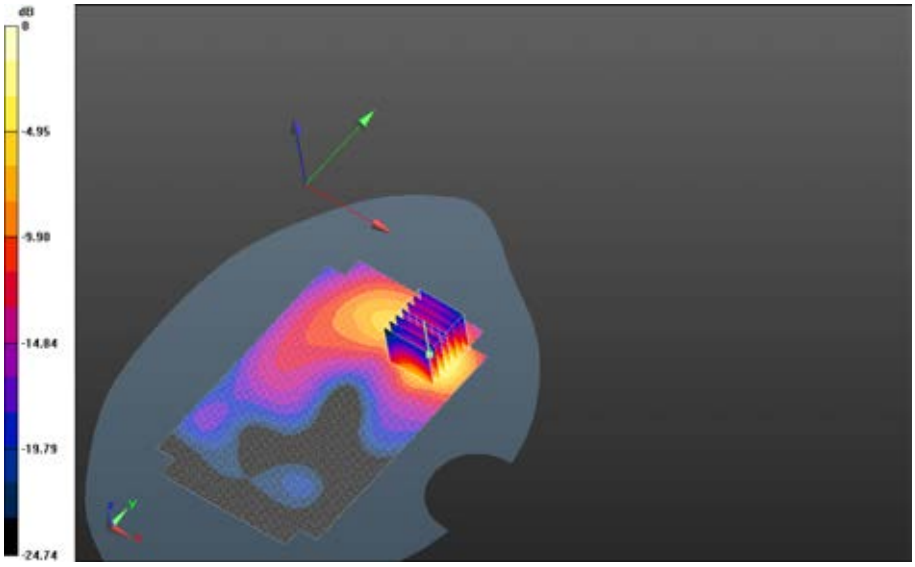


0 dB = 1.73 W/kg = 2.38 dBW/kg

Mobile Hot Spot MSL - LTE 7 Rev2/10mm Device Back - LTE band 7_chan21100_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.5C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.533 V/m; **Power Drift = 0.173 dB**

Mobile Hot Spot MSL - LTE 7 Rev2/10mm Device Back - LTE band 7_chan21100_20MHz_BW_RB1_Offset_High_amb_temp_22.9C_liq_temp_22.5C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 2.533 V/m; **Power Drift = 0.173 dB**

Averaged SAR: SAR(1g) = 1.35 W/kg; SAR(10g) = 0.616 W/kg
Maximum value of SAR (interpolated) = 2.99 W/kg

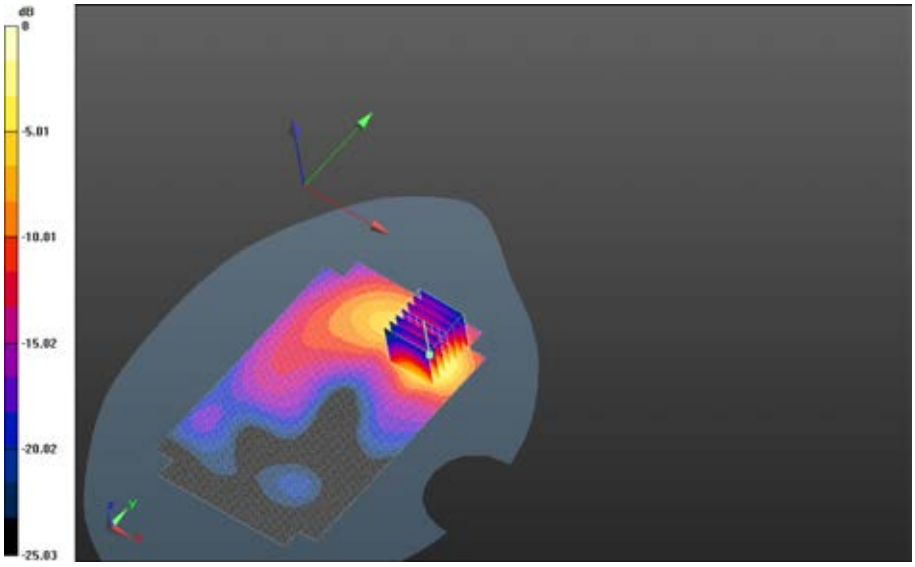


0 dB = 1.73 W/kg = 2.38 dBW/kg

Mobile Hot Spot MSL - LTE 7 Rev2/10mm Device Back - LTE band 7_chan21350_20MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.5C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 2.652 V/m; **Power Drift = -0.028 dB**

Mobile Hot Spot MSL - LTE 7 Rev2/10mm Device Back - LTE band 7_chan21350_20MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.5C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 2.652 V/m; **Power Drift = -0.028 dB**

Averaged SAR: SAR(1g) = 1.39 W/kg; SAR(10g) = 0.628 W/kg
Maximum value of SAR (interpolated) = 3.11 W/kg



0 dB = 1.78 W/kg = 2.50 dBW/kg

Date: 6/12/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF4703

Configuration: Mobile Hot Spot MSL - LTE 7 Rev2

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2560 MHz
Medium Parameters used: f=2560 MHz; σ = 2.139 S/m; ε_r = 50.334; ρ = 1.000 g/cm^3
Phantom section: Flat Section

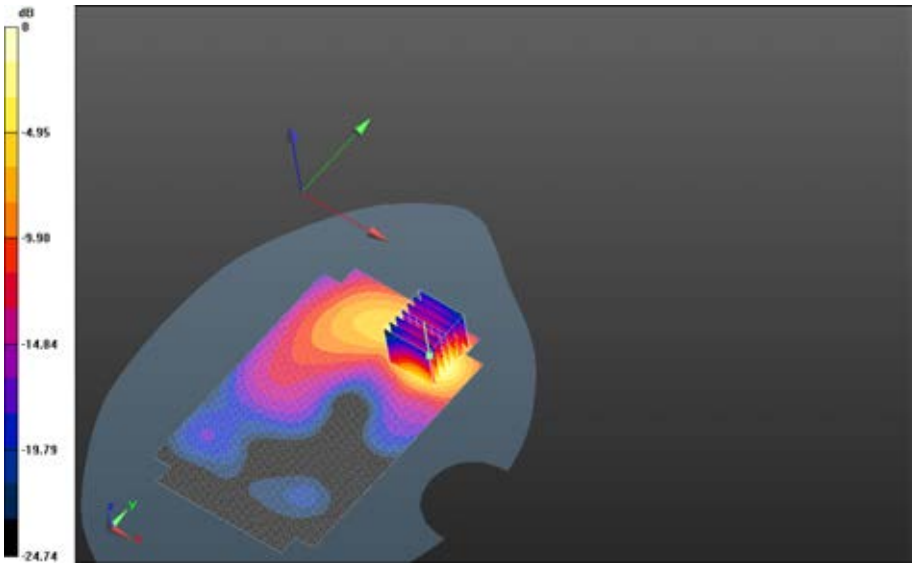
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.03,4.03,4.03); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - LTE 7 Rev2/10mm Device Back 2nd scan - LTE band 7_chan21350_20MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.5C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 3.543 V/m; **Power Drift = -0.108 dB**

Mobile Hot Spot MSL - LTE 7 Rev2/10mm Device Back 2nd scan - LTE band 7_chan21350_20MHz_BW_RB1_Offset_Low_amb_temp_22.9C_liq_temp_22.5C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 3.543 V/m; **Power Drift = -0.108 dB**

Averaged SAR: SAR(1g) = 1.39 W/kg; SAR(10g) = 0.637 W/kg
Maximum value of SAR (interpolated) = 3.03 W/kg



0 dB = 1.79 W/kg = 2.53 dBW/kg

802.11a

Date: 5/29/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - 802.11a 5200 MHz

Communication System: 802.11a (0); Communication System Band: Low and Mid Bands; Frequency: 5180 MHz
Medium Parameters used: f=5180 MHz; σ = 5.472 S/m; ε_r = 47.069; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

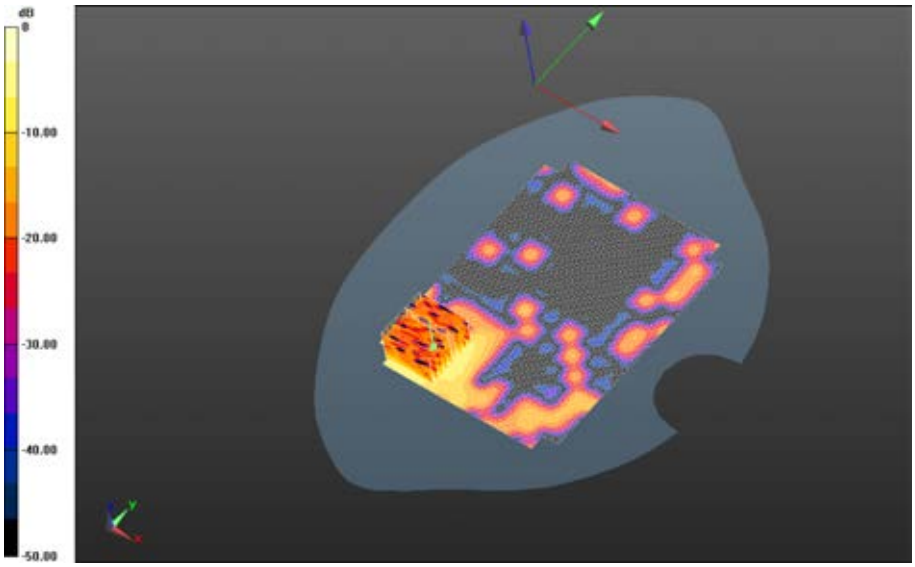
- Probe: EX3DV4 - SN3548; ConvF: (4.83,4.83,4.83); Calibrated: 1/17/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_21.9C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 1.580 V/m; **Power Drift = -0.090 dB**

Fast SAR: SAR(1g) = 0.104 W/kg; SAR(10g) = 0.0343 W/kg
Maximum value of SAR (interpolated) = 0.223 W/kg

Mobile Hot Spot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_21.9C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.580 V/m; **Power Drift = -0.090 dB**

Averaged SAR: SAR(1g) = 0.108 W/kg; SAR(10g) = 0.0340 W/kg
Maximum value of SAR (interpolated) = 0.394 W/kg



0 dB = 0.213 W/kg = -6.72 dBW/kg

Date: 5/29/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40

Configuration: Mobile Hot Spot MSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz
Medium Parameters used: f=5745 MHz; σ = 6.271 S/m; ε_r = 45.931; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

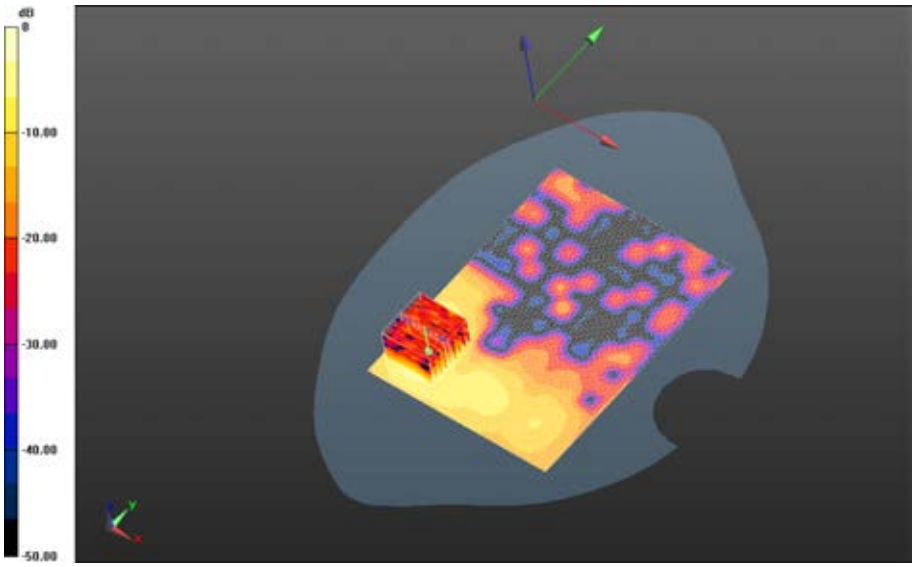
- Probe: EX3DV4 - SN3548; ConvF: (4.36,4.36,4.36); Calibrated: 1/17/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_22.1C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 1.855 V/m; **Power Drift = -0.091 dB**

Fast SAR: SAR(1g) = 0.289 W/kg; SAR(10g) = 0.0971 W/kg
Maximum value of SAR (interpolated) = 0.605 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_22.1C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.855 V/m; **Power Drift = -0.091 dB**

Averaged SAR: SAR(1g) = 0.324 W/kg; SAR(10g) = 0.107 W/kg
Maximum value of SAR (interpolated) = 1.35 W/kg



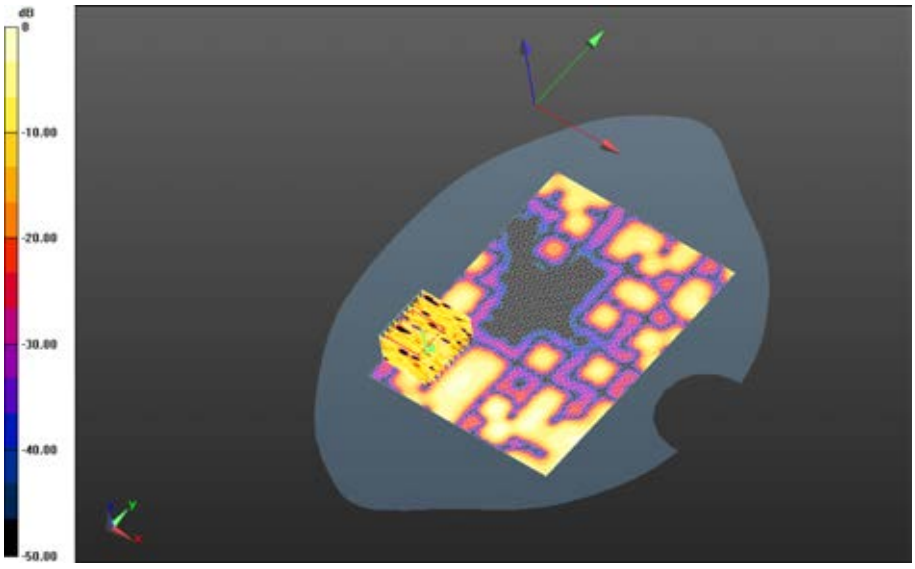
0 dB = 0.611 W/kg = -2.14 dBW/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Front - 802.11a_chan149_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_21.7C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 1.352 V/m; **Power Drift = 0.183 dB**

Fast SAR: SAR(1g) = 0.0114 W/kg; SAR(10g) = 0.00313 W/kg
Maximum value of SAR (interpolated) = 0.0260 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Front - 802.11a_chan149_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_21.7C/Zoom Scan (41x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.352 V/m; **Power Drift = 0.183 dB**

Averaged SAR: SAR(1g) = 0.0131 W/kg; SAR(10g) = 0.00445 W/kg
Maximum value of SAR (interpolated) = 0.0520 W/kg



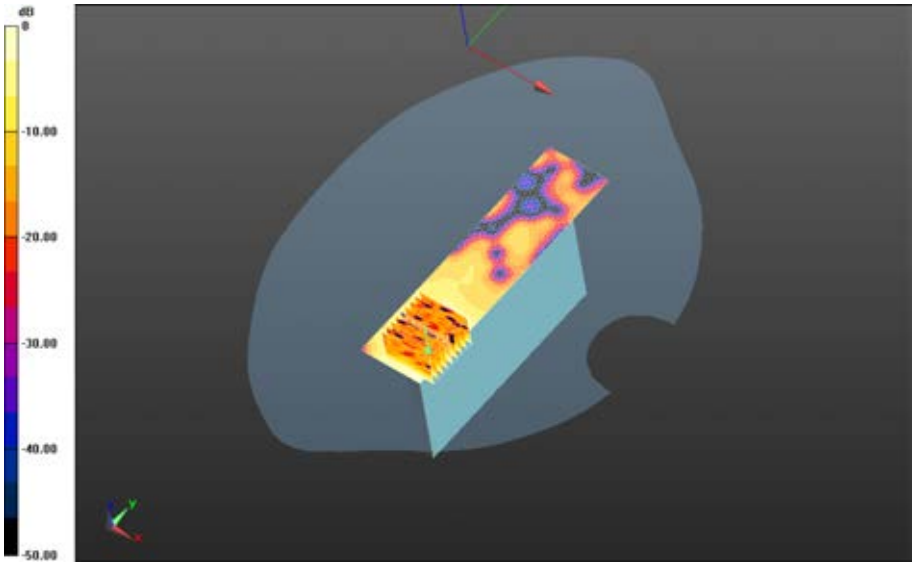
0 dB = 0.611 W/kg = -2.14 dBW/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Left - 802.11a_chan149_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_21.7C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 2.143 V/m; **Power Drift = -0.044 dB**

Fast SAR: SAR(1g) = 0.0830 W/kg; SAR(10g) = 0.0343 W/kg
Maximum value of SAR (interpolated) = 0.159 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Left - 802.11a_chan149_upper_bandII_Amb_Temp_22.9C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.143 V/m; **Power Drift = -0.044 dB**

Averaged SAR: SAR(1g) = 0.0867 W/kg; SAR(10g) = 0.0354 W/kg
Maximum value of SAR (interpolated) = 0.423 W/kg



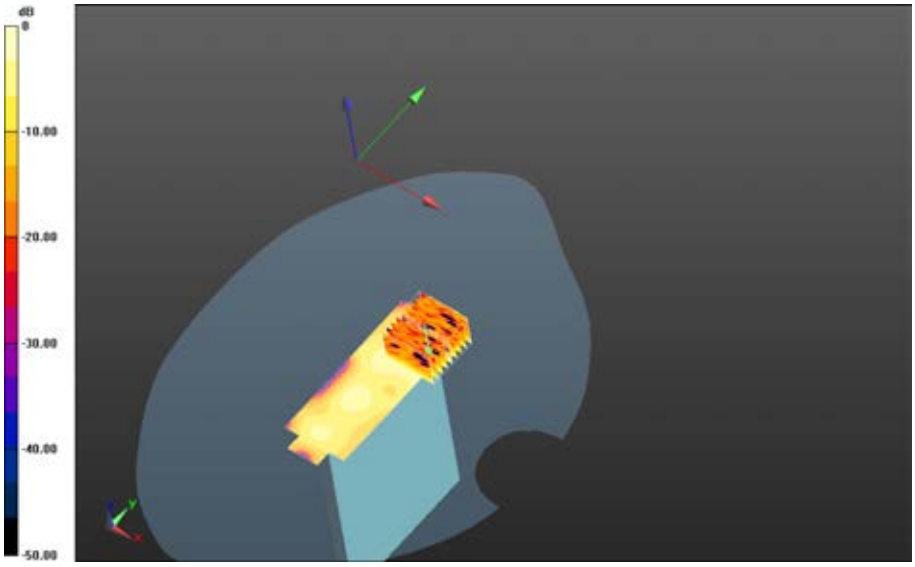
0 dB = 0.0294 W/kg = -15.32 dBW/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Top - 802.11a_chan149_upper_bandII_Amb_Temp_23.1C_Liquid_Temp_22.0C/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 3.052 V/m; **Power Drift = -0.013 dB**

Fast SAR: SAR(1g) = 0.107 W/kg; SAR(10g) = 0.0390 W/kg
Maximum value of SAR (interpolated) = 0.211 W/kg

Mobile Hot Spot MSL - 802.11a 5800 MHz/10mm Device Top - 802.11a_chan149_upper_bandII_Amb_Temp_23.1C_Liquid_Temp_22.0C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 3.052 V/m; **Power Drift = -0.013 dB**

Averaged SAR: SAR(1g) = 0.108 W/kg; SAR(10g) = 0.0391 W/kg
Maximum value of SAR (interpolated) = 0.426 W/kg



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