APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

Revision History		
Rev. Number	**Date**	**Changes**
Initial	Oct 17, 2013	----------
Rev 2	Dec 15, 2014	Added SAR plots for 802.11a Hotspot mode 1. Page 96-100

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LTE Band 17

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Date: 7/12/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Mobile Hot Spot MSL - LTE Band 17

Communication System: LTE band 17; Communication System Band: LTE 17; Frequency: 709 MHz
Medium Parameters used: f=709 MHz; σ = 0.921 S/m; ε_r = 54.583; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.27,6.27,6.27); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE_Band_17_chan23780_RB1_Off0_amb_temp_24.2C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.669 V/m; **Power Drift = -0.00975 dB**

Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE_Band_17_chan23780_RB1_Off0_amb_temp_24.2C_liq_temp_22.5C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.669 V/m; **Power Drift = -0.026 dB**

Averaged SAR: SAR(1g) = 0.487 W/kg; SAR(10g) = 0.367 W/kg
Maximum value of SAR (interpolated) = 0.688 W/kg

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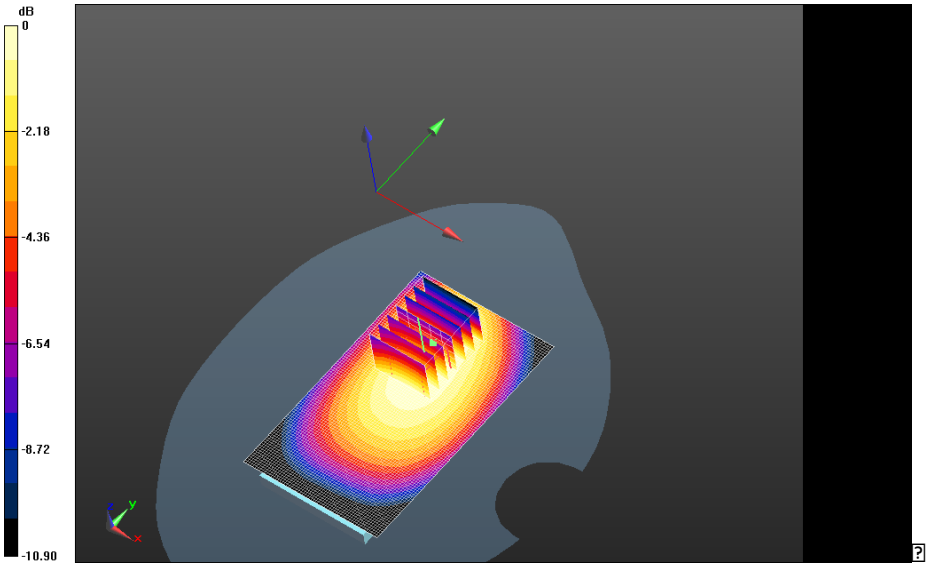

0 dB = 0.541 W/kg = -2.67 dBW/kg

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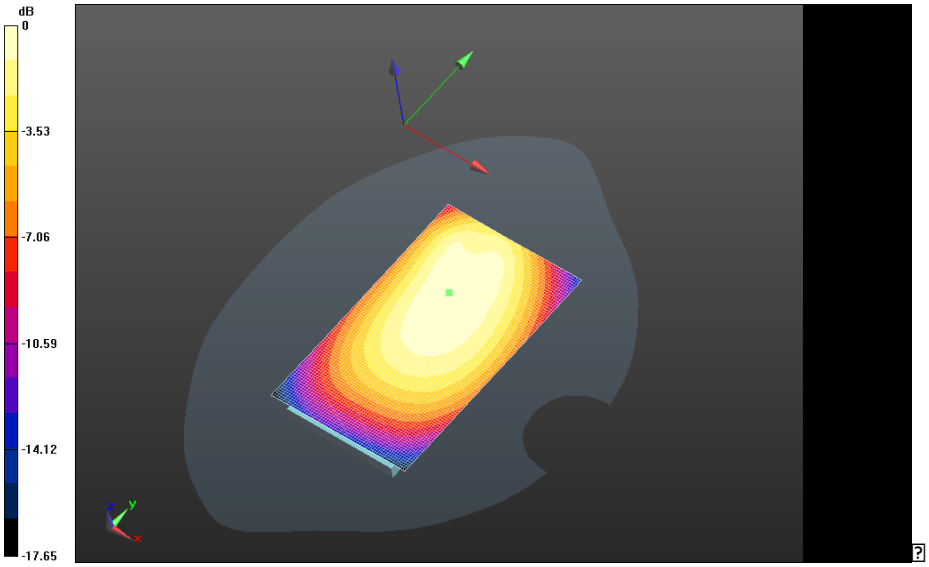
Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE_Band_17_chan23780_RB25_Off0_amb_temp_24.2C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.366 V/m; **Power Drift = 0.018 dB**

Fast SAR: SAR(1g) = 0.381 W/kg; SAR(10g) = 0.272 W/kg
Maximum value of SAR (interpolated) = 0.426 W/kg



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

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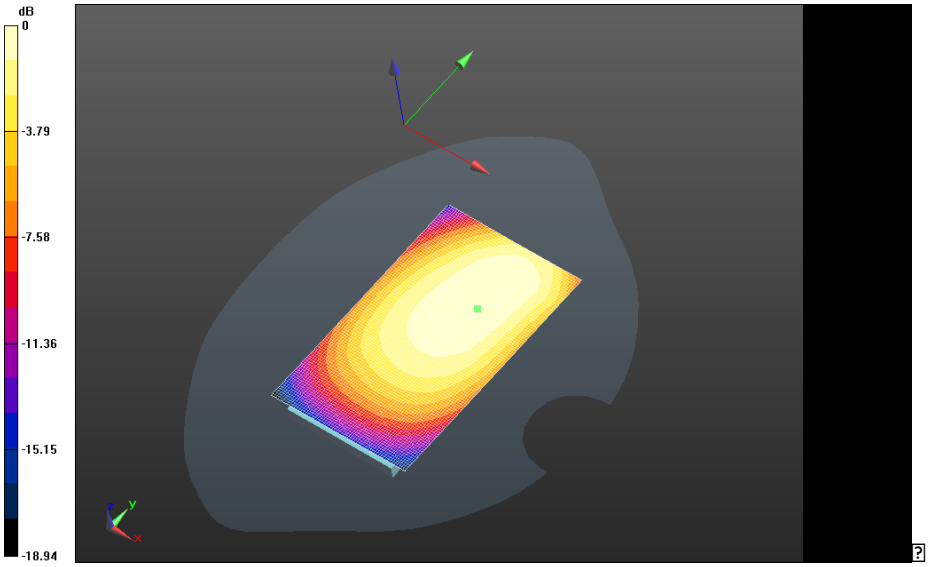
Mobile Hot Spot MSL - LTE Band 17/10mm Device Front - LTE_Band_17_chan23780_RB1_Off0_amb_temp_24.1C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.595 V/m; **Power Drift = 0.070 dB**

Fast SAR: SAR(1g) = 0.462 W/kg; SAR(10g) = 0.328 W/kg
Maximum value of SAR (interpolated) = 0.521 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

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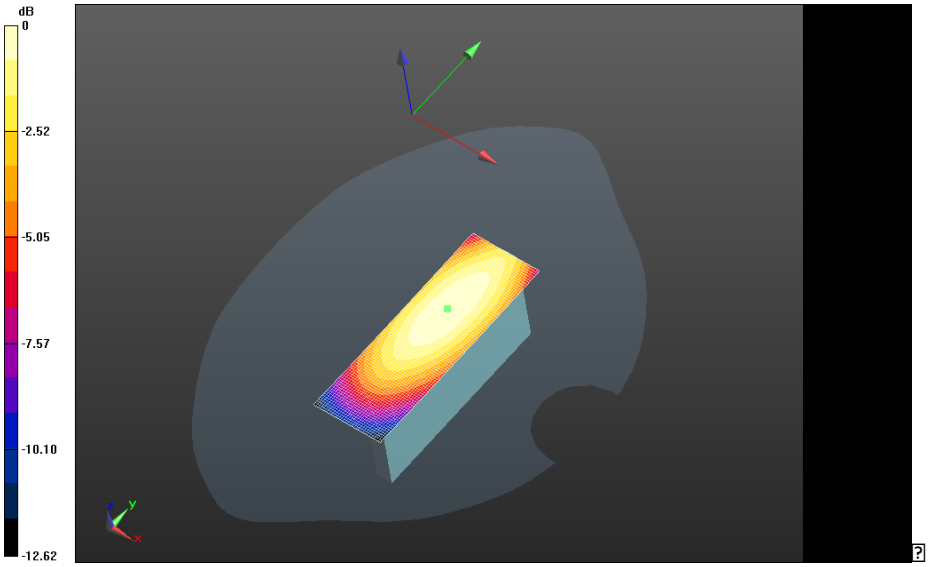
Mobile Hot Spot MSL - LTE Band 17/10mm Device Left - LTE_Band_17_chan23780_RB1_Off0_amb_temp_23.4C_liq_temp_22.5C/Area Scan (31x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.549 V/m; **Power Drift = 0.037 dB**

Fast SAR: SAR(1g) = 0.451 W/kg; SAR(10g) = 0.311 W/kg
Maximum value of SAR (interpolated) = 0.510 W/kg



0 dB = 0.521 W/kg = -2.83 dBW/kg

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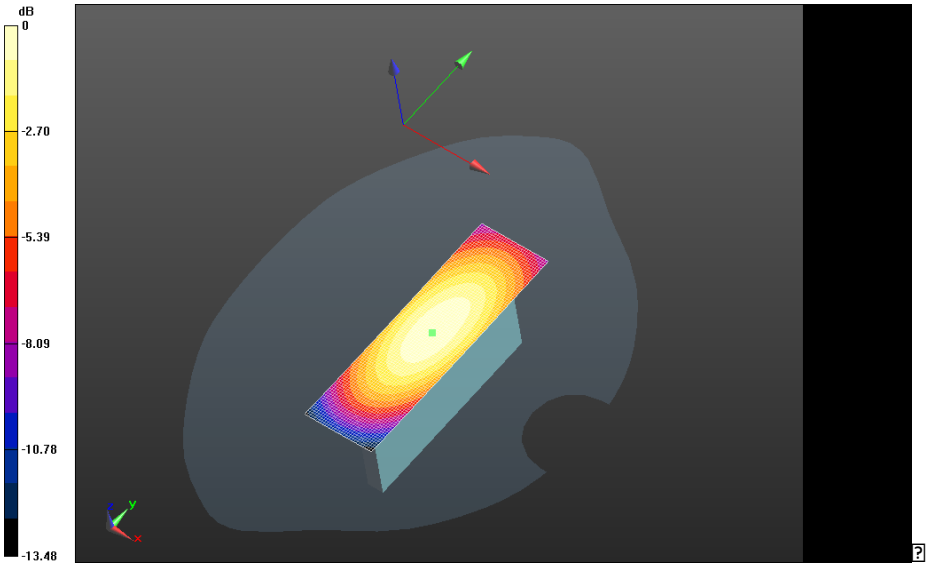
Mobile Hot Spot MSL - LTE Band 17/10mm Device Right - LTE_Band_17_chan23780_RB1_Off0_amb_temp_23.5C_liq_temp_22.5C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.912 V/m; **Power Drift = -0.029 dB**

Fast SAR: SAR(1g) = 0.223 W/kg; SAR(10g) = 0.153 W/kg
Maximum value of SAR (interpolated) = 0.253 W/kg



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

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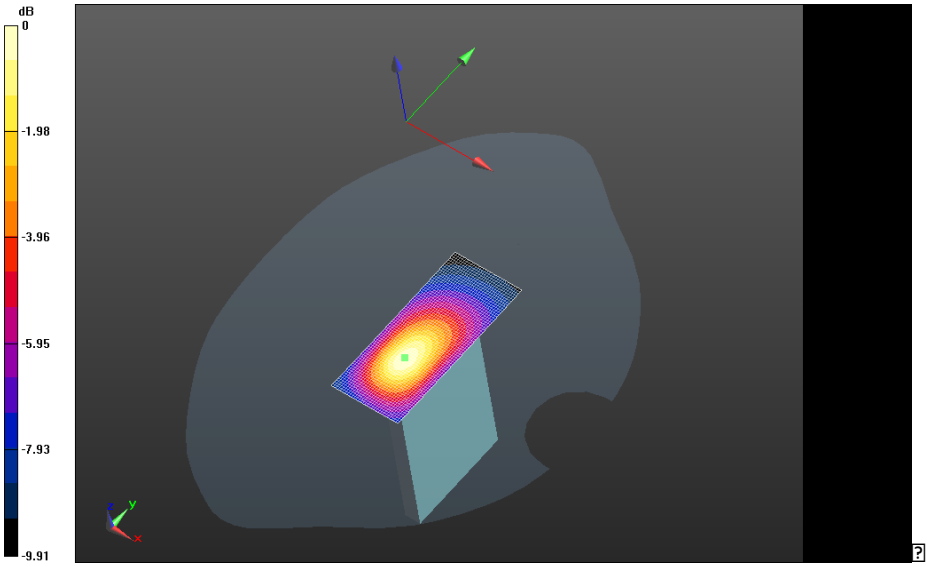
Mobile Hot Spot MSL - LTE Band 17/10mm Device Bottom - LTE_Band_17_chan23780_RB1_Off0_amb_temp_23.3C_liq_temp_22.2C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.657 V/m; **Power Drift = -0.00764 dB**

Fast SAR: SAR(1g) = 0.143 W/kg; SAR(10g) = 0.0875 W/kg
Maximum value of SAR (interpolated) = 0.175 W/kg



0 dB = 0.253 W/kg = -5.97 dBW/kg

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LTE 5

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Date: 7/15/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE967

Configuration: Mobile Hot Spot MSL - LTE Band 5

Communication System: LTE 5; Communication System Band: LTE 5; Frequency: 829 MHz
Medium Parameters used: f=829 MHz; σ = 0.963 S/m; ε_r = 53.325; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.2C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.114 V/m; **Power Drift = -0.203 dB**

Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE_Band_5_chan20450_RB1_Off49_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 = 23.114 V/m; **Power Drift = -0.244 dB**

Averaged SAR: SAR(1g) = 0.441 W/kg; SAR(10g) = 0.338 W/kg
Maximum value of SAR (interpolated) = 0.546 W/kg

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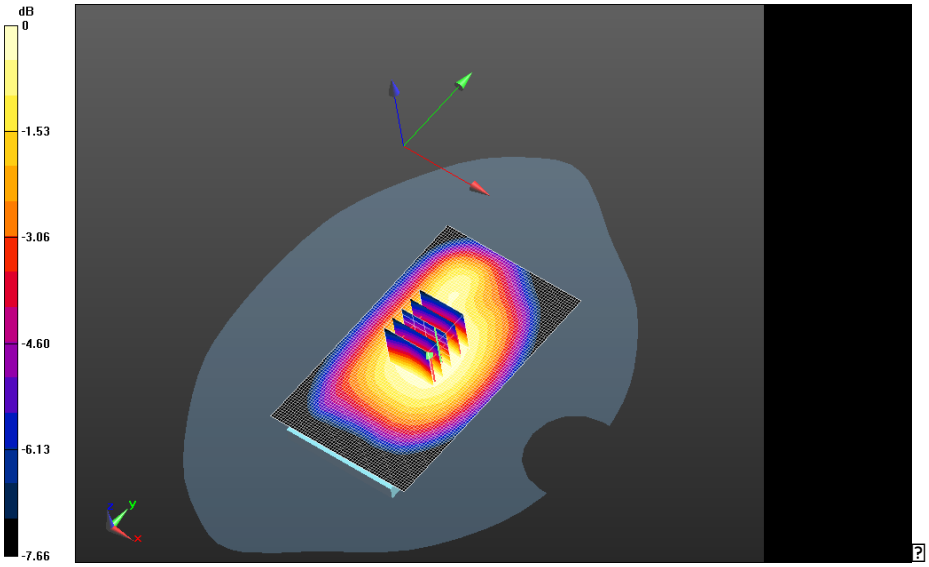

0 dB = 0.483 W/kg = -3.16 dBW/kg

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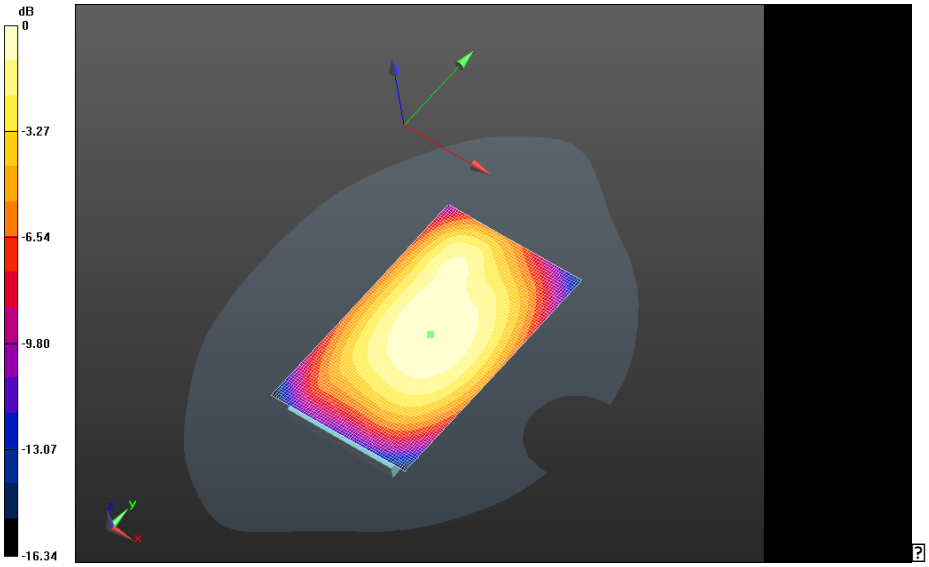
Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE_Band_5_chan20525_RB25_Off25_amb_temp_23.2C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.388 V/m; **Power Drift = 0.018 dB**

Fast SAR: SAR(1g) = 0.342 W/kg; SAR(10g) = 0.242 W/kg
Maximum value of SAR (interpolated) = 0.386 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

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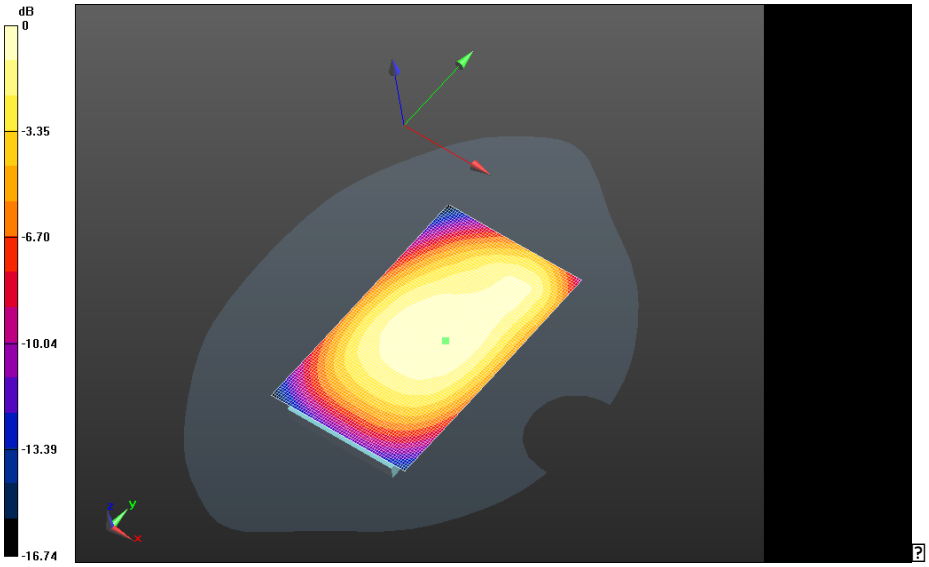
Mobile Hot Spot MSL - LTE Band 5/10mm Device Front - LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.3C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.585 V/m; **Power Drift = 0.110 dB**

Fast SAR: SAR(1g) = 0.426 W/kg; SAR(10g) = 0.302 W/kg
Maximum value of SAR (interpolated) = 0.480 W/kg



0 dB = 0.386 W/kg = -4.13 dBW/kg

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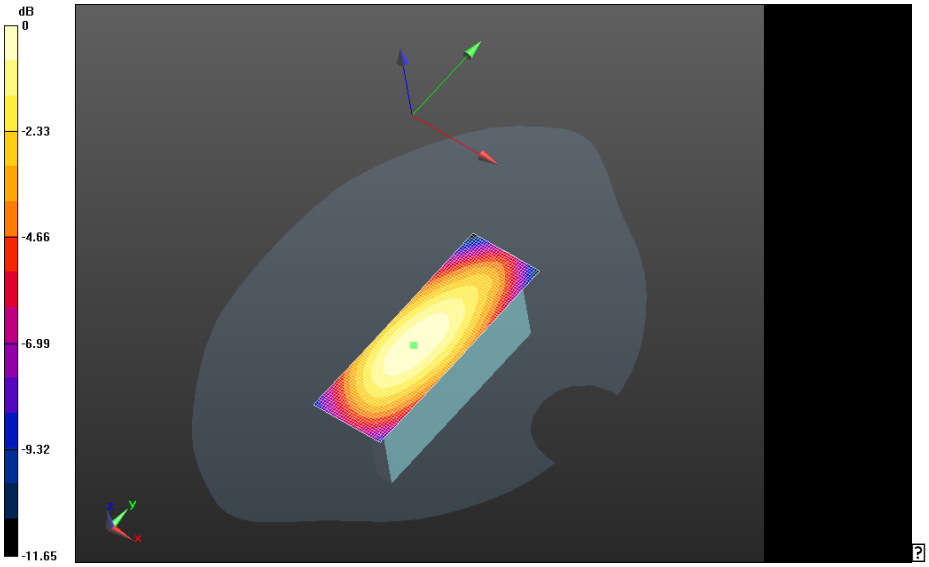
Mobile Hot Spot MSL - LTE Band 5/10mm Device Left - LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.4C_liq_temp_22.3C/Area Scan (31x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.031 V/m; **Power Drift = 0.031 dB**

Fast SAR: SAR(1g) = 0.429 W/kg; SAR(10g) = 0.291 W/kg
Maximum value of SAR (interpolated) = 0.490 W/kg



0 dB = 0.480 W/kg = -3.19 dBW/kg

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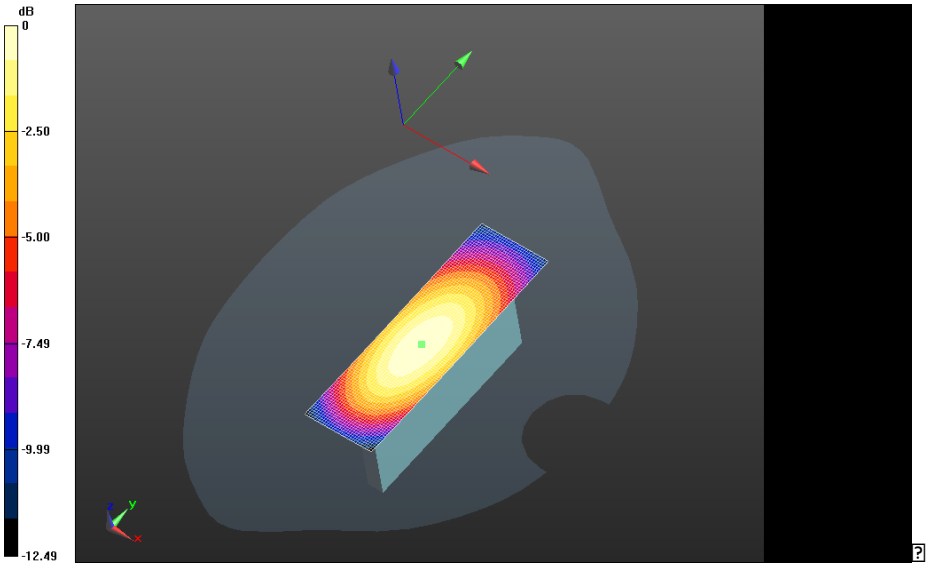
Mobile Hot Spot MSL - LTE Band 5/10mm Device Right - LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.2C_liq_temp_22.3C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.388 V/m; **Power Drift = -0.192 dB**

Fast SAR: SAR(1g) = 0.346 W/kg; SAR(10g) = 0.235 W/kg
Maximum value of SAR (interpolated) = 0.394 W/kg



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

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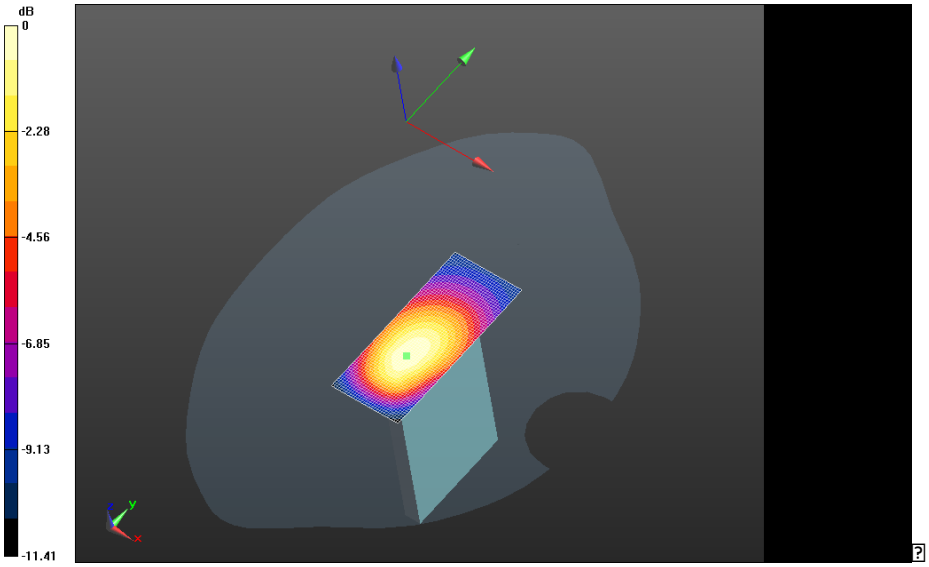
Mobile Hot Spot MSL - LTE Band 5/10mm Device Bottom - LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.3C_liq_temp_22.3C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.867 V/m; **Power Drift = 0.085 dB**

Fast SAR: SAR(1g) = 0.168 W/kg; SAR(10g) = 0.108 W/kg
Maximum value of SAR (interpolated) = 0.194 W/kg



0 dB = 0.394 W/kg = -4.05 dBW/kg

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DTM/GSM 850

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Date: 7/15/2013

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GSM 850; Communication System Band: GSM 850; Frequency: 836.8 MHz

Medium Parameters used: f=836.8 MHz; σ = 0.970 S/m; ε_r = 53.234; ρ = 1.000 g/cm^3

Phantom section: Flat Section

DASY Configuration:

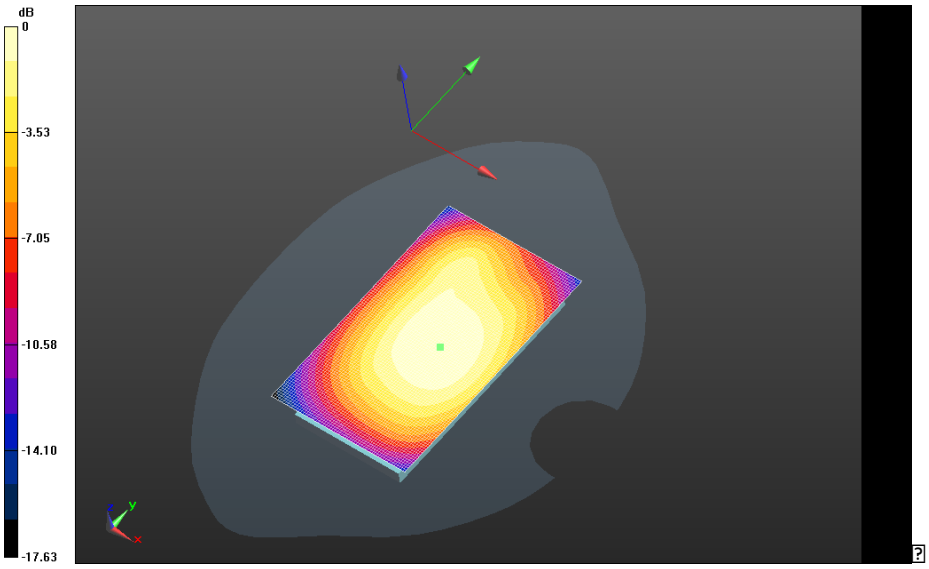
- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GSM850_chan190_amb_temp_22.9C_liq_temp_21.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 26.217 V/m; **Power Drift = -0.144 dB**

Fast SAR: SAR(1g) = 0.550 W/kg; SAR(10g) = 0.387 W/kg

Maximum value of SAR (interpolated) = 0.622 W/kg



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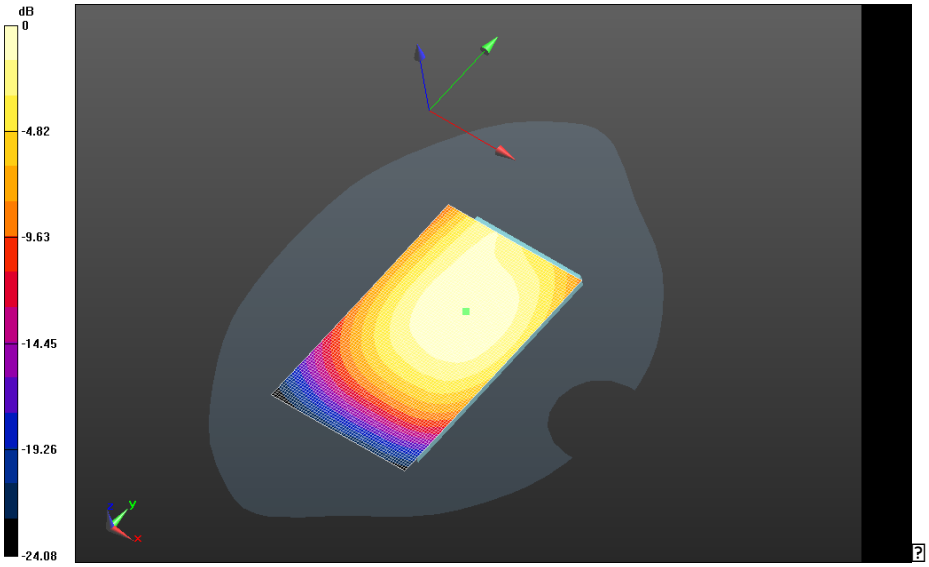
0 dB = 0.622 W/kg = -2.06 dBW/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_2-slots_chan190_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 27.388 V/m; **Power Drift = -0.014 dB**

Fast SAR: SAR(1g) = 0.653 W/kg; SAR(10g) = 0.460 W/kg
Maximum value of SAR (interpolated) = 0.736 W/kg



0 dB = 0.622 W/kg = -2.06 dBW/kg

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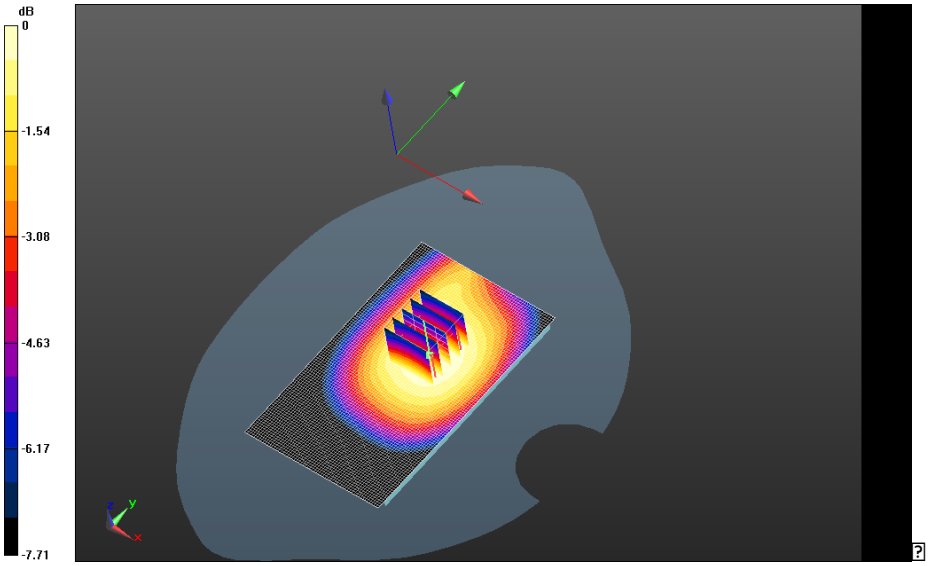
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan190_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.965 V/m; **Power Drift = -9.69e-005 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-Slots_chan190_amb_temp_22.8C_liq_temp_21.1C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 27.965 V/m; **Power Drift = -9.69e-005 dB**

Averaged SAR: SAR(1g) = 0.692 W/kg; SAR(10g) = 0.530 W/kg
Maximum value of SAR (interpolated) = 0.868 W/kg



0 dB = 0.736 W/kg = -1.33 dBW/kg

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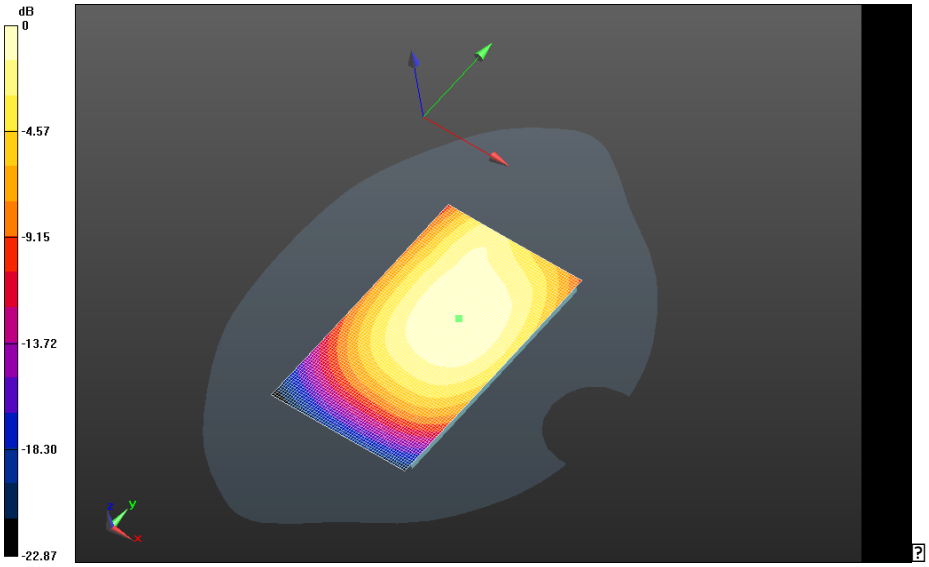
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_4-Slots_chan190_amb_temp_22.6C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 26.683 V/m; **Power Drift = 0.011 dB**

Fast SAR: SAR(1g) = 0.627 W/kg; SAR(10g) = 0.441 W/kg
Maximum value of SAR (interpolated) = 0.707 W/kg



0 dB = 0.760 W/kg = -1.19 dBW/kg

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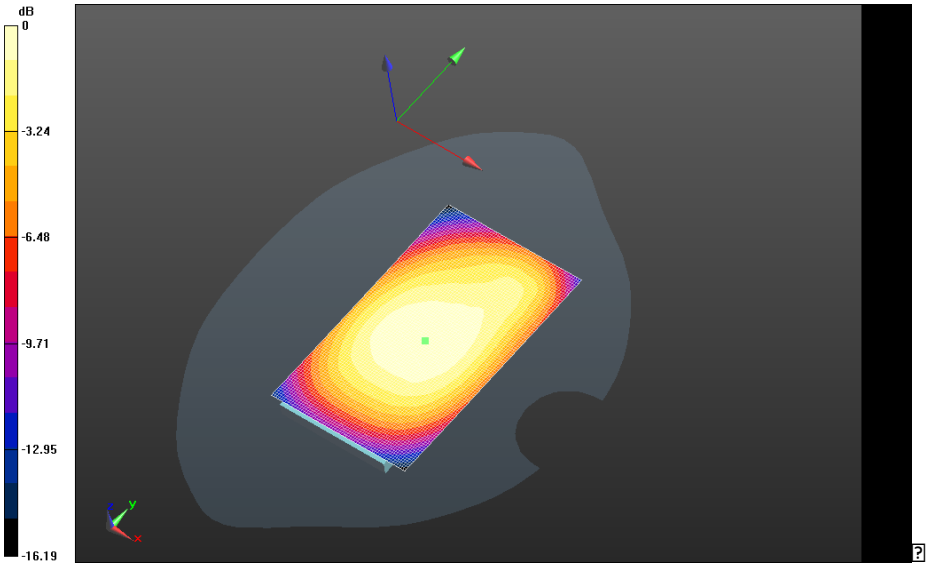
Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS850_4-Slots_chan190_amb_temp_23.2C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 28.672 V/m; **Power Drift = -0.066 dB**

Fast SAR: SAR(1g) = 0.664 W/kg; SAR(10g) = 0.471 W/kg
Maximum value of SAR (interpolated) = 0.751 W/kg



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

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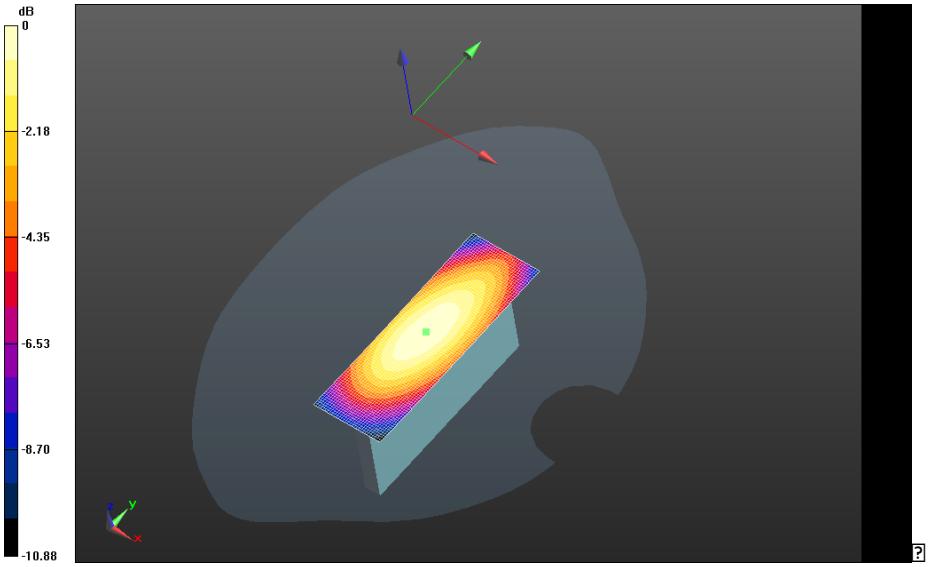
Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS850_4-Slots_chan190_amb_temp_22.8C_liq_temp_22.1C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.210 V/m; **Power Drift = -0.00138 dB**

Fast SAR: SAR(1g) = 0.591 W/kg; SAR(10g) = 0.400 W/kg
Maximum value of SAR (interpolated) = 0.671 W/kg



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

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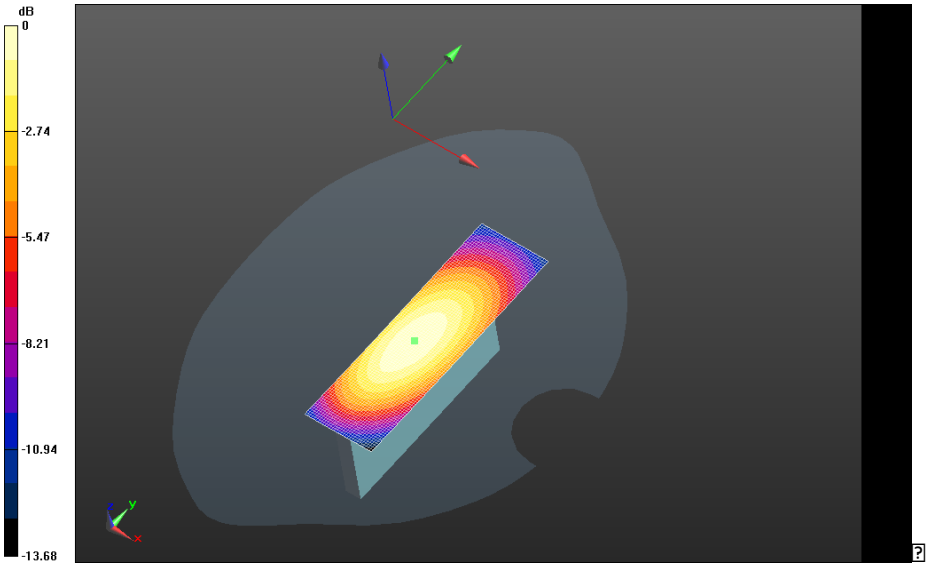
Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS850_4-Slots_chan190_amb_temp_23.4C_liq_temp_22.0C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.908 V/m; **Power Drift = -0.077 dB**

Fast SAR: SAR(1g) = 0.500 W/kg; SAR(10g) = 0.337 W/kg
Maximum value of SAR (interpolated) = 0.572 W/kg



0 dB = 0.671 W/kg = -1.73 dBW/kg

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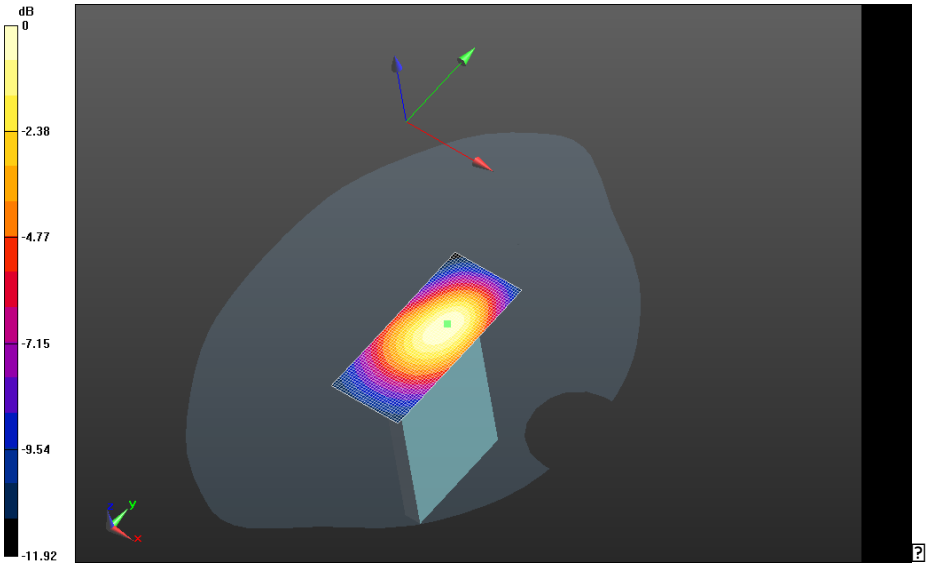
Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS850_4-Slots_chan190_amb_temp_23.5C_liq_temp_22.4C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.392 V/m; **Power Drift = -0.079 dB**

Fast SAR: SAR(1g) = 0.188 W/kg; SAR(10g) = 0.120 W/kg
Maximum value of SAR (interpolated) = 0.221 W/kg



0 dB = 0.572 W/kg = -2.43 dBW/kg

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UMTS Band V

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Date: 7/15/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Mobile Hot Spot MSL - UMTS band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; σ = 0.970 S/m; ε_r = 53.238; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS_band V_chan4182_amb_temp_23.5C_liq_temp_21.8C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.378 V/m; **Power Drift = -0.00815 dB**

Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS_band V_chan4182_amb_temp_23.5C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.378 V/m; **Power Drift = -0.00815 dB**

Averaged SAR: SAR(1g) = 0.428 W/kg; SAR(10g) = 0.328 W/kg
Maximum value of SAR (interpolated) = 0.530 W/kg

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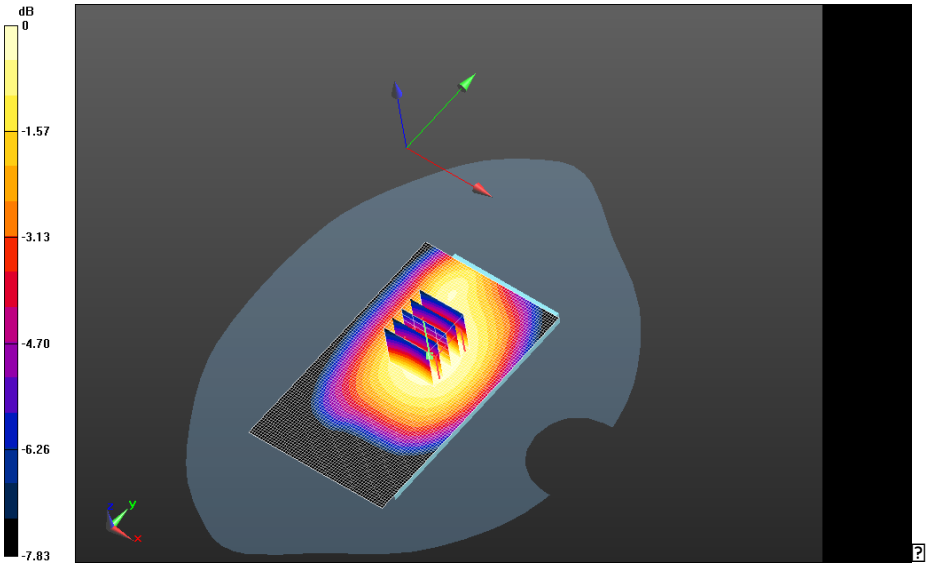

0 dB = 0.467 W/kg = -3.31 dBW/kg

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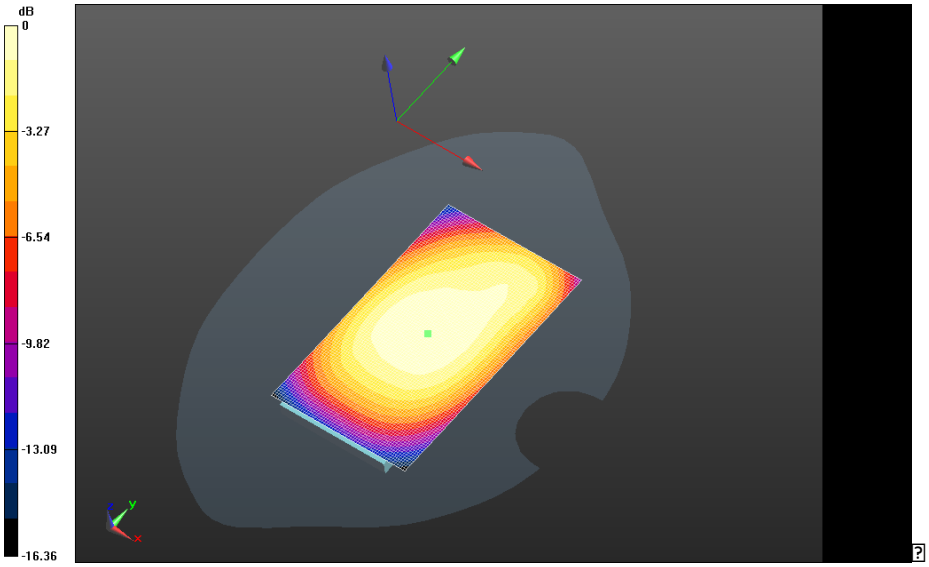
Mobile Hot Spot MSL - UMTS band V/10mm Device Front - UMTS_band V_chan4182_amb_temp_23.4C_liq_temp_21.6C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.947 V/m; **Power Drift = 0.071 dB**

Fast SAR: SAR(1g) = 0.403 W/kg; SAR(10g) = 0.286 W/kg
Maximum value of SAR (interpolated) = 0.455 W/kg



0 dB = 0.467 W/kg = -3.31 dBW/kg

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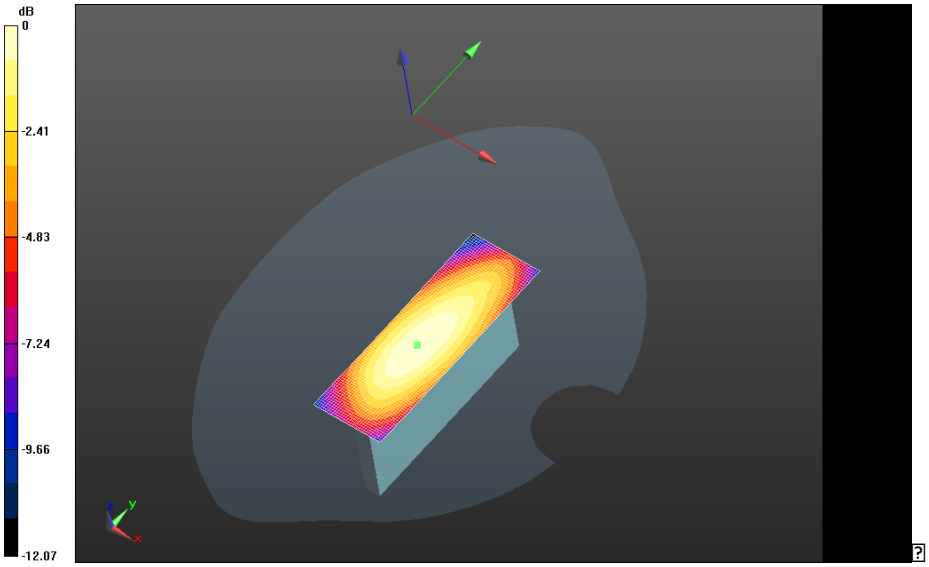
Mobile Hot Spot MSL - UMTS band V/10mm Device Left - UMTS_band V_chan4182_amb_temp_23.2C_liq_temp_21.7C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.462 V/m; **Power Drift = 0.085 dB**

Fast SAR: SAR(1g) = 0.397 W/kg; SAR(10g) = 0.268 W/kg
Maximum value of SAR (interpolated) = 0.451 W/kg



0 dB = 0.455 W/kg = -3.42 dBW/kg

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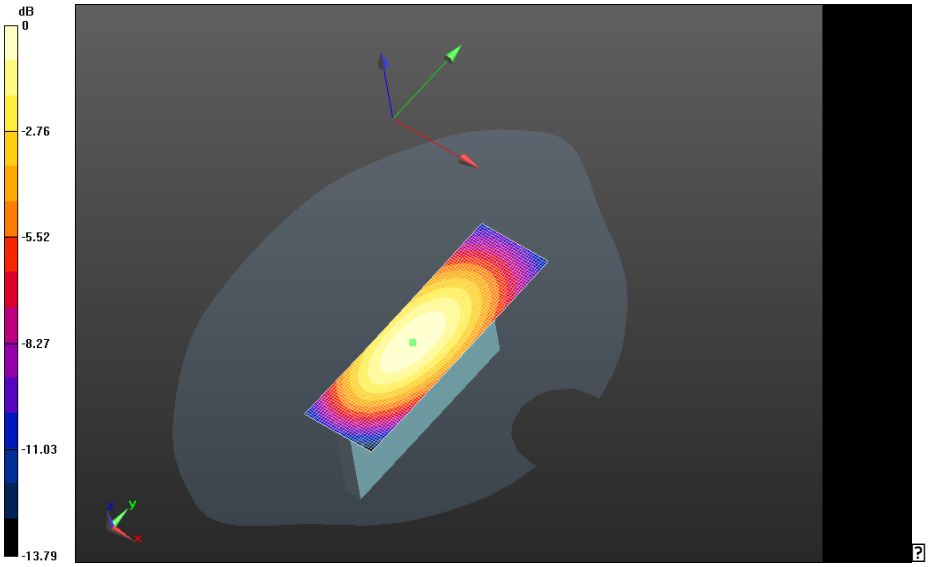
Mobile Hot Spot MSL - UMTS band V/10mm Device Right - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.5C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.081 V/m; **Power Drift = 0.067 dB**

Fast SAR: SAR(1g) = 0.331 W/kg; SAR(10g) = 0.223 W/kg
Maximum value of SAR (interpolated) = 0.378 W/kg



0 dB = 0.451 W/kg = -3.46 dBW/kg

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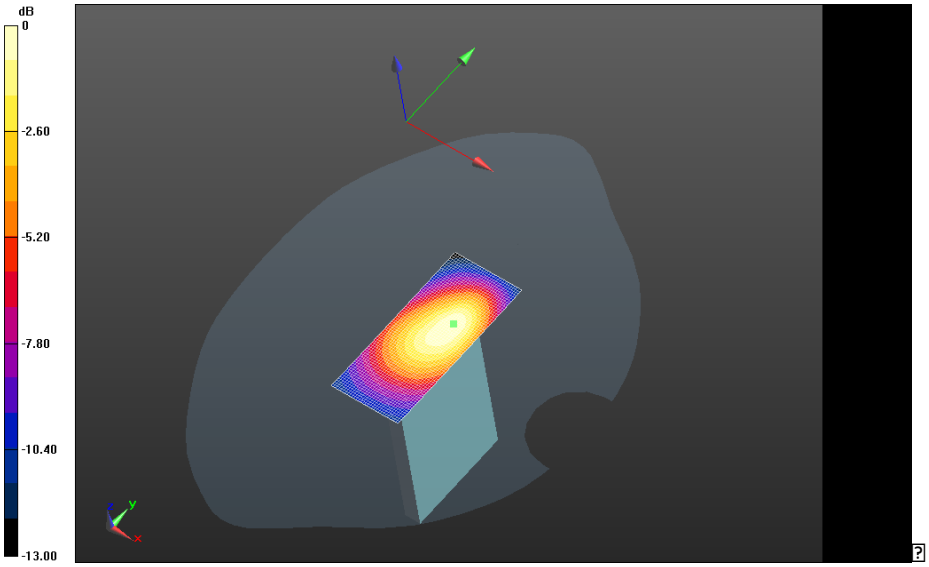
Mobile Hot Spot MSL - UMTS band V/10mm Device Bottom - UMTS_band V_chan4182_amb_temp_23.C_liq_temp_21.4C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.963 V/m; **Power Drift = -0.00208 dB**

Fast SAR: SAR(1g) = 0.158 W/kg; SAR(10g) = 0.100 W/kg
Maximum value of SAR (interpolated) = 0.188 W/kg



0 dB = 0.378 W/kg = -4.23 dBW/kg

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LTE 4

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Date: 7/11/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Mobile Hot Spot MSL - LTE Band 4

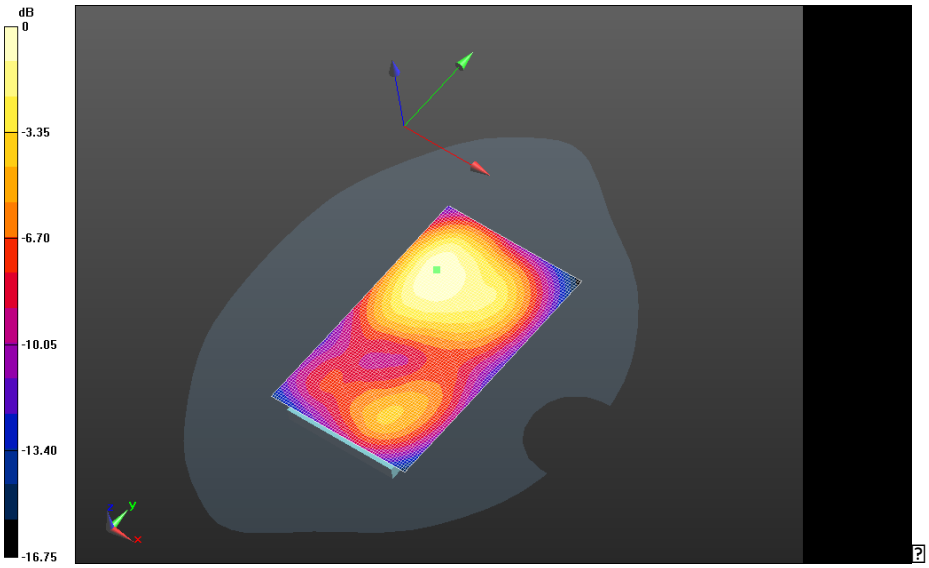
Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1720 MHz
Medium Parameters used: f=1720 MHz; σ = 1.489 S/m; ε_r = 50.876; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE_Band_4_chan20050_RB1_Off50_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.681 V/m; **Power Drift = -0.036 dB**

Fast SAR: SAR(1g) = 0.810 W/kg; SAR(10g) = 0.500 W/kg
Maximum value of SAR (interpolated) = 0.967 W/kg



0 dB = 0.967 W/kg = -0.15 dBW/kg

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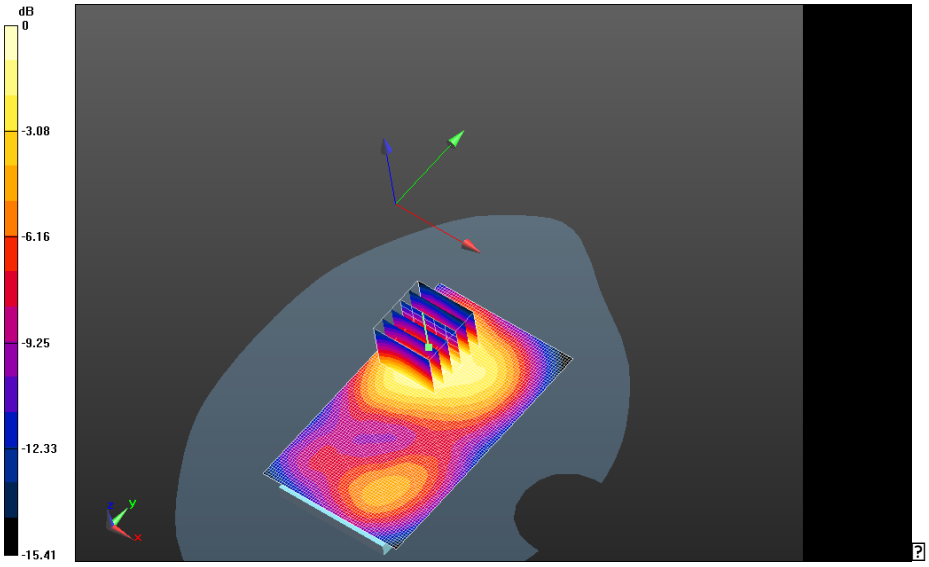
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE_Band_4_chan20175_RB1_Off0_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.539 V/m; **Power Drift = 0.090 dB**

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE_Band_4_chan20175_RB1_Off0_amb_temp_23.0C_liq_temp_22.2C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.539 V/m; **Power Drift = 0.031 dB**

Averaged SAR: SAR(1g) = 0.869 W/kg; SAR(10g) = 0.529 W/kg
Maximum value of SAR (interpolated) = 1.40 W/kg



0 dB = 0.967 W/kg = -0.15 dBW/kg

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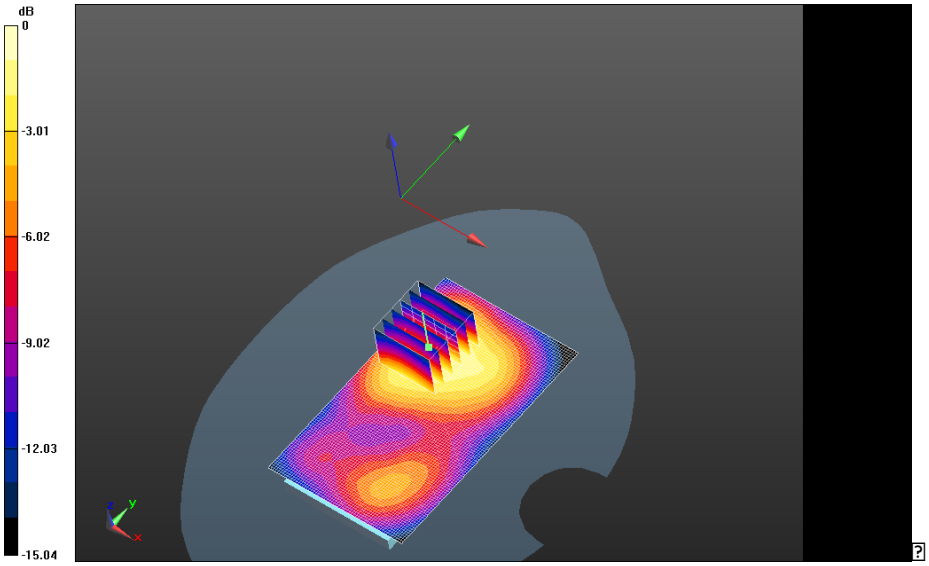
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE_Band_4_chan20175_2nd scan_RB1_Off0_amb_temp_22.8C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.062 V/m; **Power Drift = 0.050 dB**

Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE_Band_4_chan20175_2nd scan_RB1_Off0_amb_temp_22.8C_liq_temp_22.2C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.062 V/m; **Power Drift = 0.046 dB**

Averaged SAR: SAR(1g) = 0.903 W/kg; SAR(10g) = 0.549 W/kg
Maximum value of SAR (interpolated) = 1.45 W/kg



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

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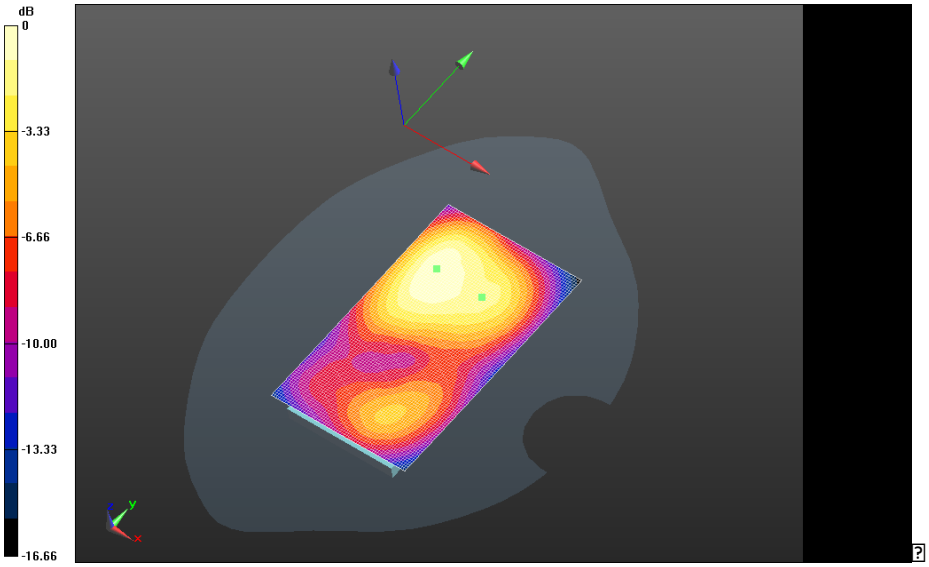
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE_Band_4_chan20300_RB1_Off50_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.327 V/m; **Power Drift = 0.063 dB**

Fast SAR: SAR(1g) = 0.758 W/kg; SAR(10g) = 0.471 W/kg
Maximum value of SAR (interpolated) = 0.904 W/kg



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

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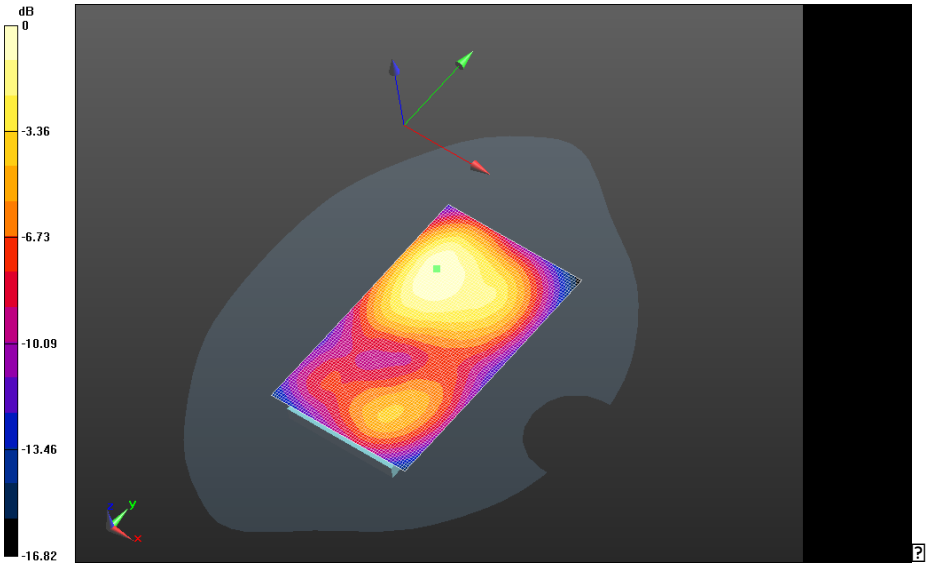
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE_Band_4_chan20050_RB50_Off0_amb_temp_22.7C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.197 V/m; **Power Drift = -0.070 dB**

Fast SAR: SAR(1g) = 0.631 W/kg; SAR(10g) = 0.389 W/kg
Maximum value of SAR (interpolated) = 0.754 W/kg



0 dB = 0.904 W/kg = -0.44 dBW/kg

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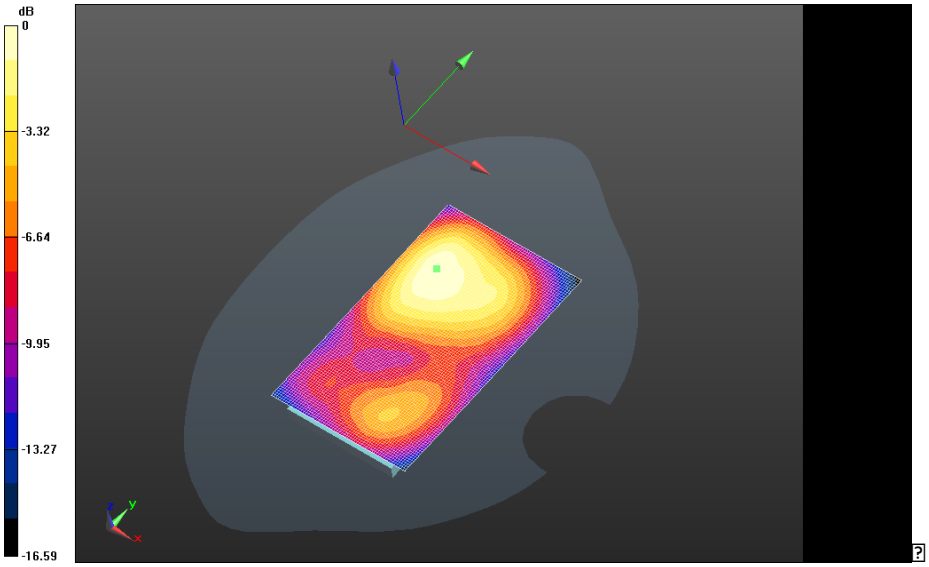
Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE_Band_4_chan20050_RB100_Off0_amb_temp_23.4C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.165 V/m; **Power Drift = 0.032 dB**

Fast SAR: SAR(1g) = 0.629 W/kg; SAR(10g) = 0.389 W/kg
Maximum value of SAR (interpolated) = 0.753 W/kg



0 dB = 0.754 W/kg = -1.23 dBW/kg

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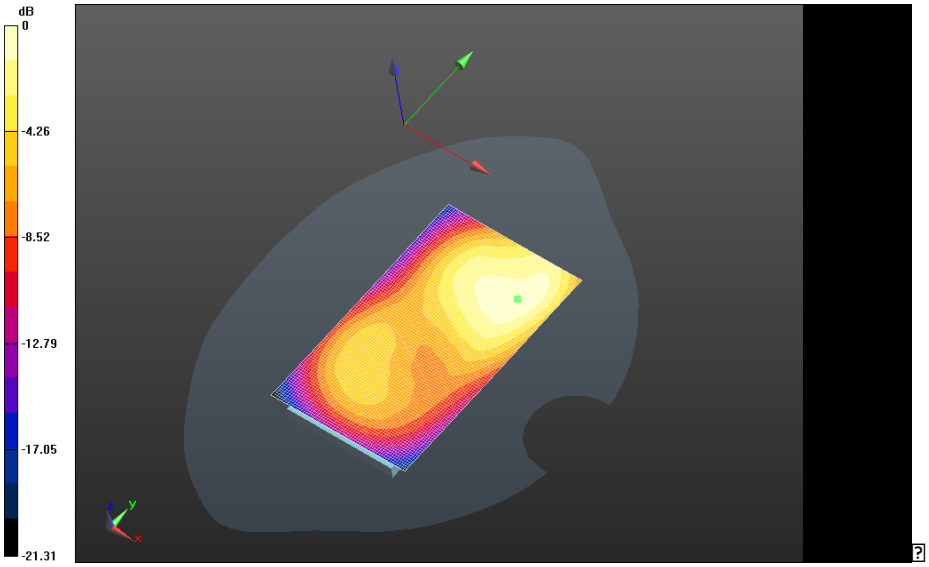
Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE_Band_4_chan20050_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.025 V/m; **Power Drift = 0.046 dB**

Fast SAR: SAR(1g) = 0.727 W/kg; SAR(10g) = 0.447 W/kg
Maximum value of SAR (interpolated) = 0.876 W/kg



0 dB = 0.753 W/kg = -1.23 dBW/kg

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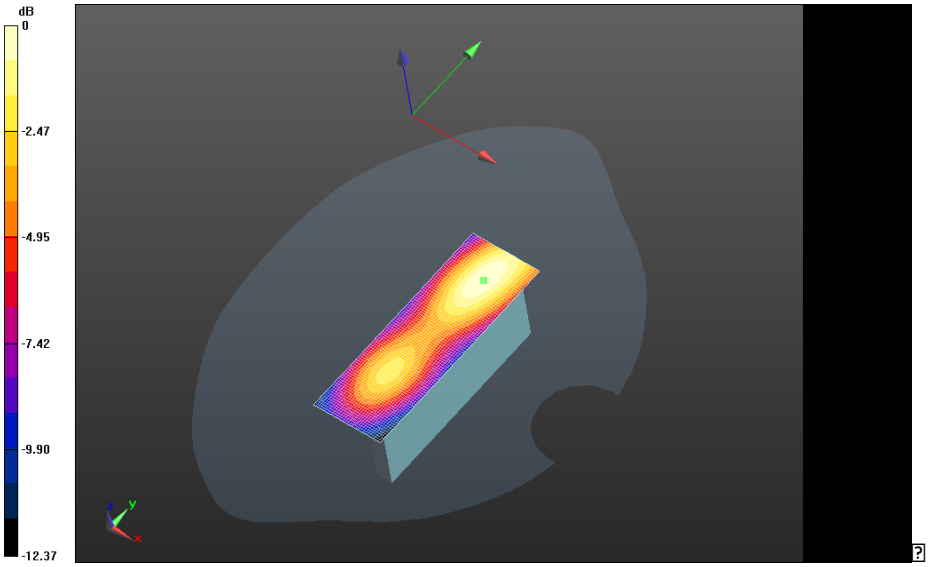
Mobile Hot Spot MSL - LTE Band 4/10mm Device Left - LTE_Band_4_chan20050_RB1_Off50_amb_temp_23.4C_liq_temp_22.2C/Area Scan (31x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.459 V/m; **Power Drift = 0.015 dB**

Fast SAR: SAR(1g) = 0.420 W/kg; SAR(10g) = 0.244 W/kg
Maximum value of SAR (interpolated) = 0.509 W/kg



0 dB = 0.876 W/kg = -0.57 dBW/kg

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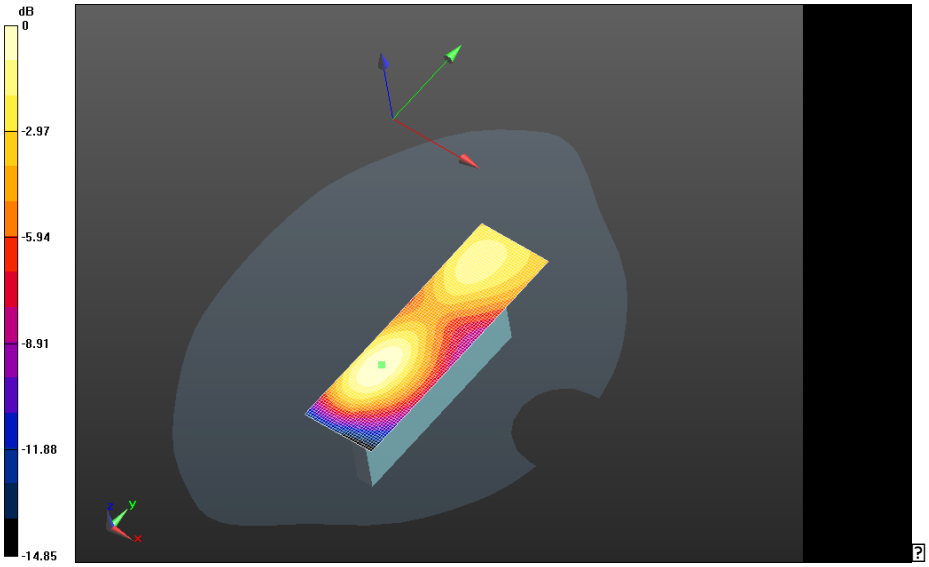
Mobile Hot Spot MSL - LTE Band 4/10mm Device Right - LTE_Band_4_chan20050_RB1_Off50_amb_temp_23.3C_liq_temp_22.2C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.872 V/m; **Power Drift = -0.123 dB**

Fast SAR: SAR(1g) = 0.145 W/kg; SAR(10g) = 0.0851 W/kg
Maximum value of SAR (interpolated) = 0.175 W/kg



0 dB = 0.509 W/kg = -2.93 dBW/kg

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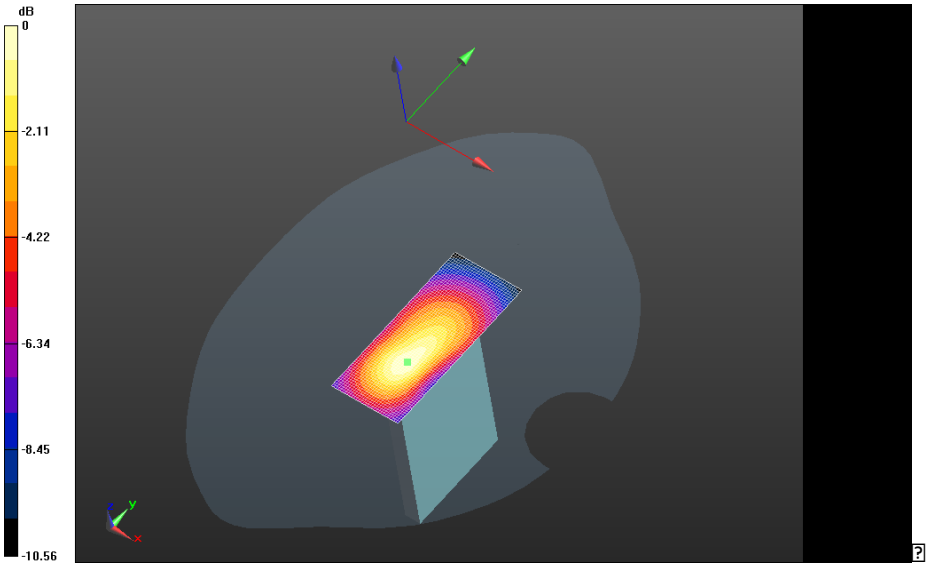
Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom - LTE_Band_4_chan20050_RB1_Off50_amb_temp_23.3C_liq_temp_22.2C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.812 V/m; **Power Drift = -0.00986 dB**

Fast SAR: SAR(1g) = 0.390 W/kg; SAR(10g) = 0.222 W/kg
Maximum value of SAR (interpolated) = 0.488 W/kg



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

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UMTS Band IV

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Date: 7/10/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Mobile Hot Spot MSL - UMTS IV

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV; Frequency: 1712.4 MHz
Medium Parameters used: f=1712.4 MHz; σ = 1.479 S/m; ε_r = 50.873; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS_IV_chan1312_amb_temp_23.3C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.193 V/m; **Power Drift = 0.00942 dB**

Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS_IV_chan1312_amb_temp_23.3C_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 = 13.193 V/m; **Power Drift = 0.00942 dB**

Averaged SAR: SAR(1g) = 1.10 W/kg; SAR(10g) = 0.670 W/kg
Maximum value of SAR (interpolated) = 1.77 W/kg

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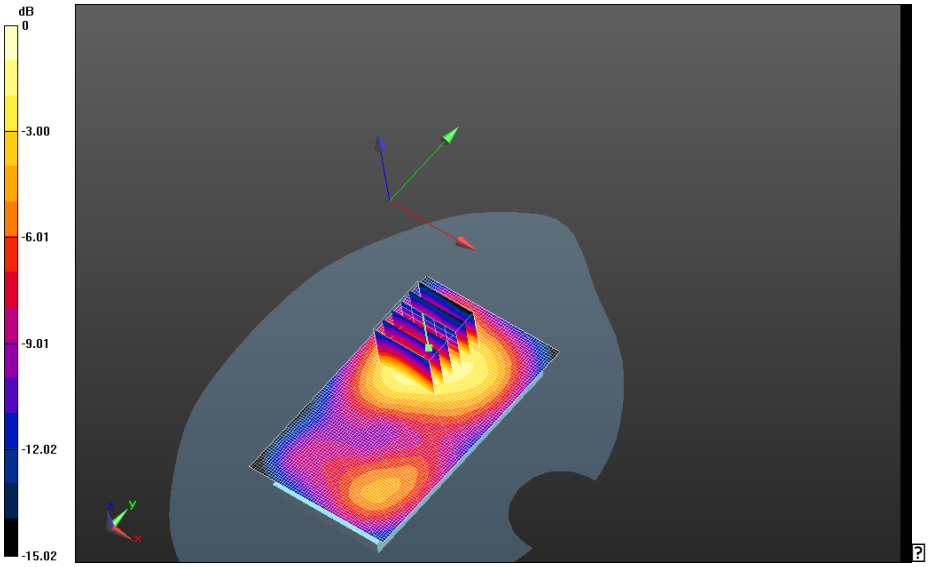

0 dB = 1.31 W/kg = 1.17 dBW/kg

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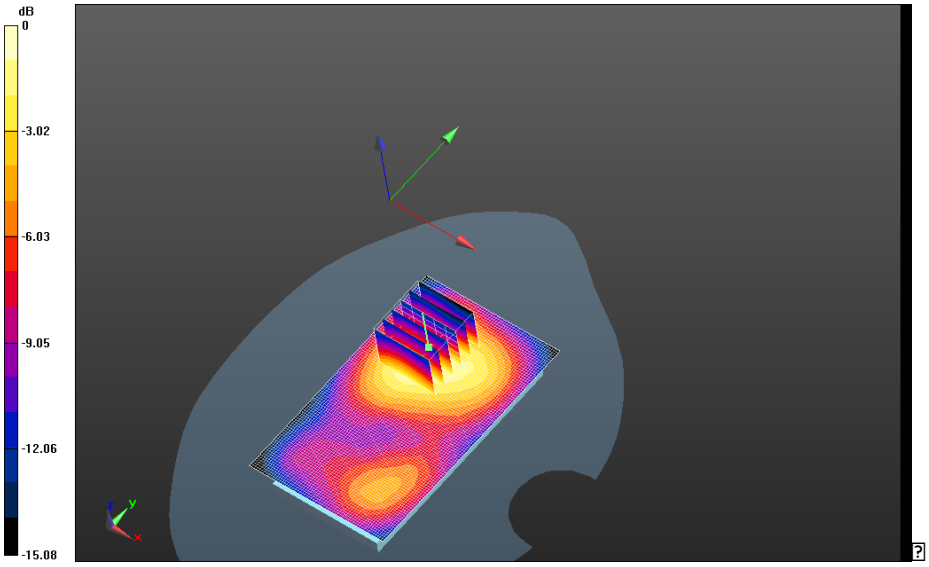
Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS_IV_chan1312_2nd scan_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.281 V/m; **Power Drift = 0.037 dB**

Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS_IV_chan1312_2nd scan_amb_temp_23.2C_liq_temp_22.7C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.281 V/m; **Power Drift = 0.037 dB**

Averaged SAR: SAR(1g) = 1.11 W/kg; SAR(10g) = 0.674 W/kg
Maximum value of SAR (interpolated) = 1.79 W/kg



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

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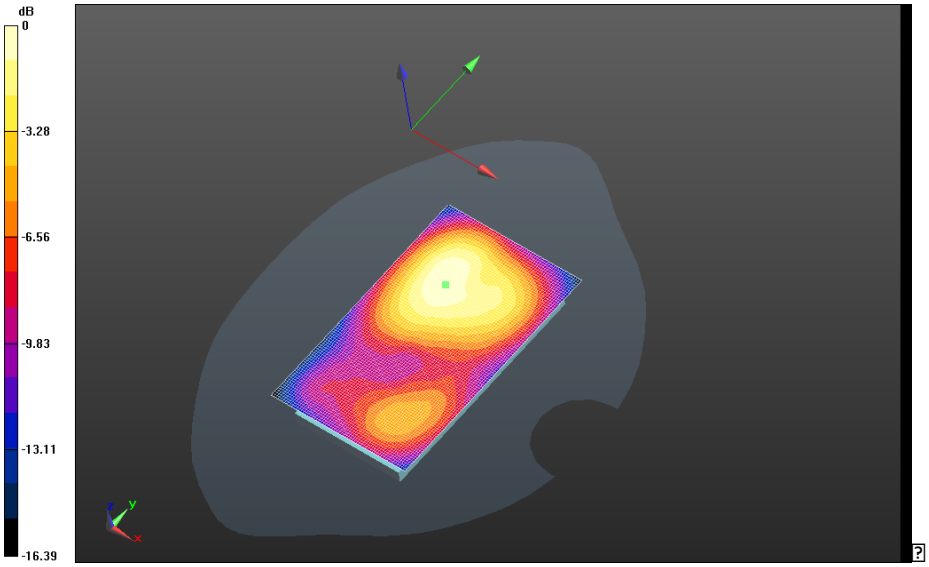
Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS_IV_chan1413_amb_temp_23.4C_liq_temp_22.9C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.713 V/m; **Power Drift = -0.047 dB**

Fast SAR: SAR(1g) = 0.969 W/kg; SAR(10g) = 0.590 W/kg
Maximum value of SAR (interpolated) = 1.15 W/kg



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

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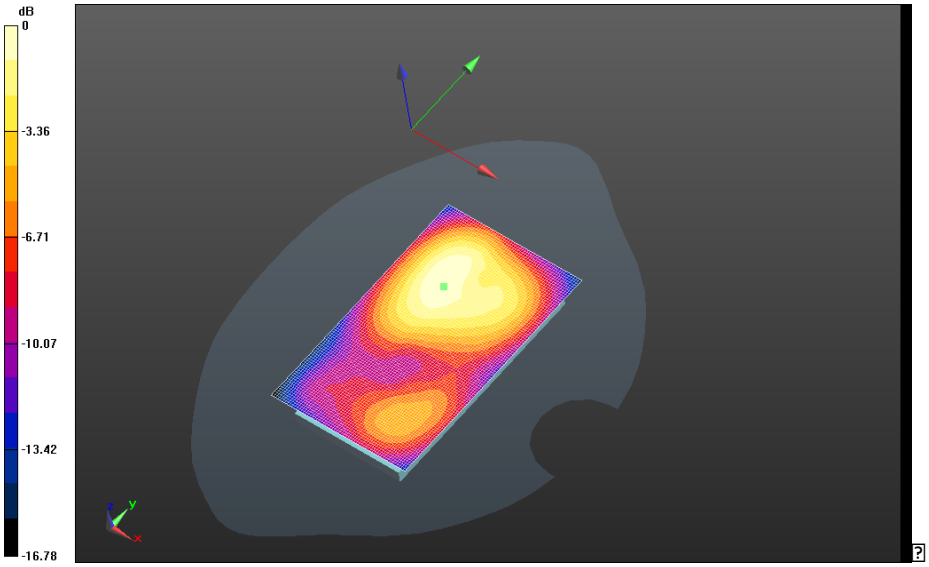
Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS_IV_chan1513_amb_temp_23.3C_liq_temp_22.9C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.598 V/m; **Power Drift = 0.013 dB**

Fast SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.647 W/kg
Maximum value of SAR (interpolated) = 1.27 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

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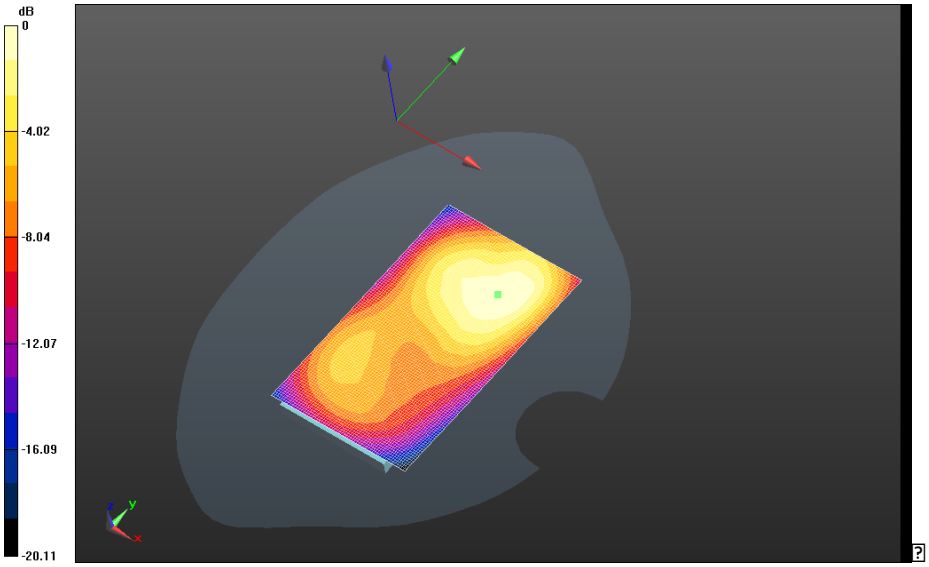
Mobile Hot Spot MSL - UMTS IV/10mm Device Front - UMTS_IV_chan1312_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.545 V/m; **Power Drift = 0.142 dB**

Fast SAR: SAR(1g) = 0.993 W/kg; SAR(10g) = 0.612 W/kg
Maximum value of SAR (interpolated) = 1.18 W/kg



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

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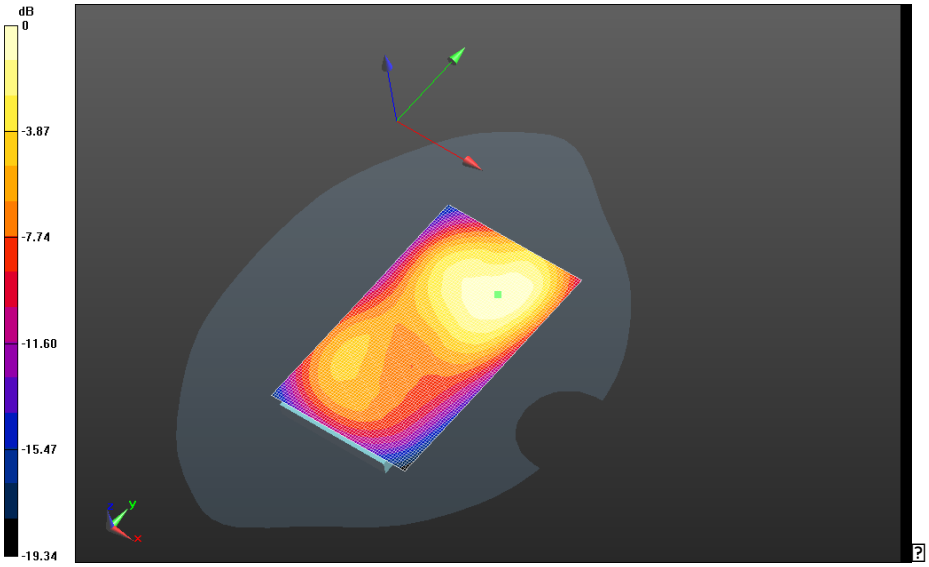
Mobile Hot Spot MSL - UMTS IV/10mm Device Front - UMTS_IV_chan1413_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.438 V/m; **Power Drift = 0.098 dB**

Fast SAR: SAR(1g) = 0.909 W/kg; SAR(10g) = 0.560 W/kg
Maximum value of SAR (interpolated) = 1.08 W/kg



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

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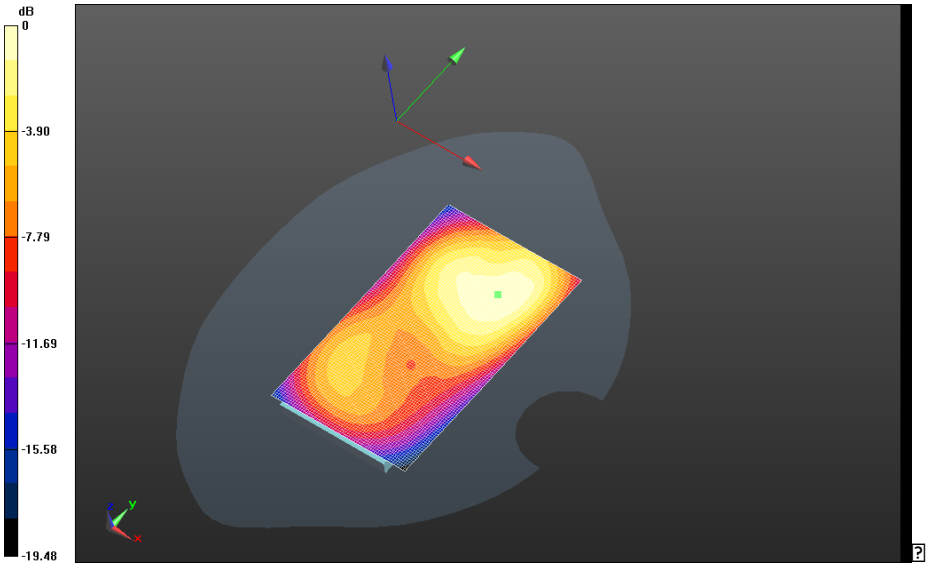
Mobile Hot Spot MSL - UMTS IV/10mm Device Front - UMTS_IV_chan1513_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.049 V/m; **Power Drift = 0.028 dB**

Fast SAR: SAR(1g) = 0.976 W/kg; SAR(10g) = 0.603 W/kg
Maximum value of SAR (interpolated) = 1.16 W/kg



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

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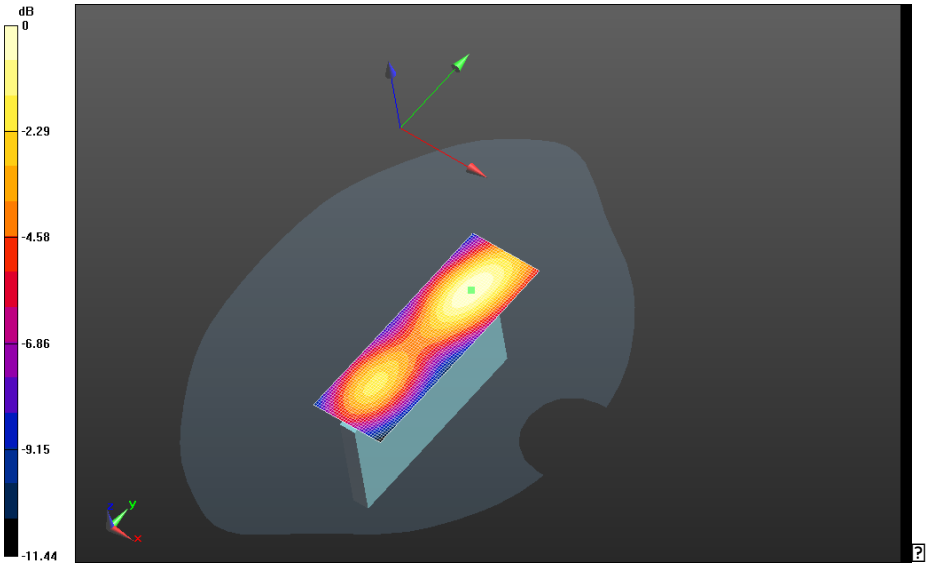
Mobile Hot Spot MSL - UMTS IV/10mm Device Left - UMTS_IV_chan1413_amb_temp_22.8C_liq_temp_22.0C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.881 V/m; **Power Drift = -0.011 dB**

Fast SAR: SAR(1g) = 0.488 W/kg; SAR(10g) = 0.282 W/kg
Maximum value of SAR (interpolated) = 0.593 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

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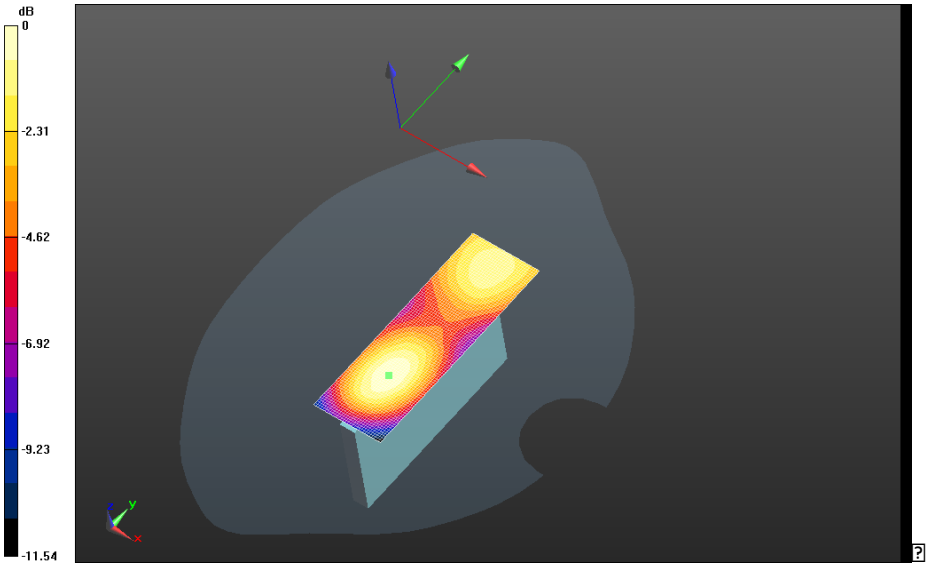
Mobile Hot Spot MSL - UMTS IV/10mm Device Right - UMTS_IV_chan1413_amb_temp_22.9C_liq_temp_22.1C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.484 V/m; **Power Drift = -0.056 dB**

Fast SAR: SAR(1g) = 0.158 W/kg; SAR(10g) = 0.0931 W/kg
Maximum value of SAR (interpolated) = 0.187 W/kg



0 dB = 0.593 W/kg = -2.27 dBW/kg

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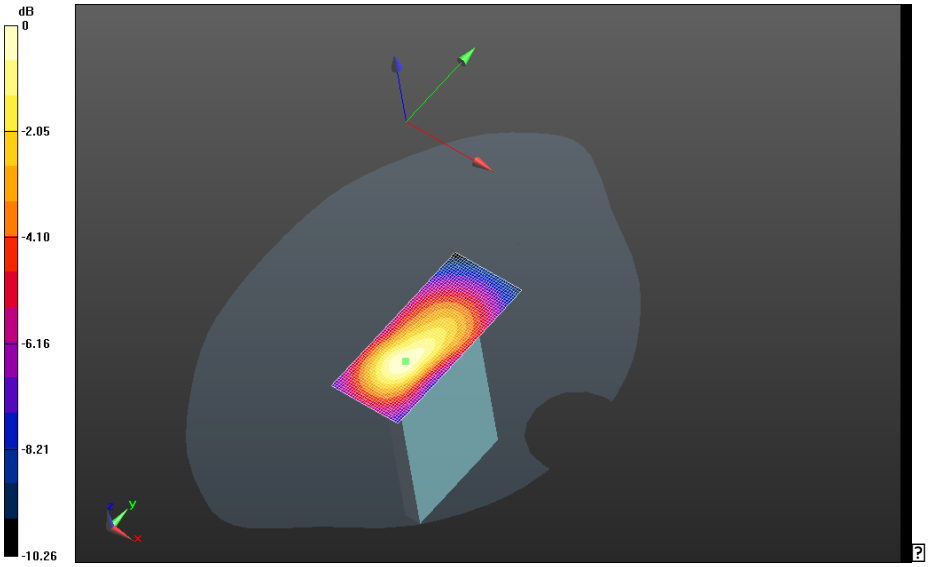
Mobile Hot Spot MSL - UMTS IV/10mm Device Bottom - UMTS_IV_chan1413_amb_temp_22.8C_liq_temp_22.2C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.619 V/m; **Power Drift = -0.098 dB**

Fast SAR: SAR(1g) = 0.427 W/kg; SAR(10g) = 0.244 W/kg
Maximum value of SAR (interpolated) = 0.532 W/kg



0 dB = 0.187 W/kg = -7.28 dBW/kg

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DTM/GSM 1900

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Date: 7/5/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE967

Configuration: Mobile Hot Spot MSL - GPRS 1900

Communication System: GSM 1900; Communication System Band: GSM 1900; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.549 S/m; ε_r = 51.206; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GSM1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.156 V/m; **Power Drift = 0.187 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GSM1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.156 V/m; **Power Drift = 0.187 dB**

Averaged SAR: SAR(1g) = 0.479 W/kg; SAR(10g) = 0.273 W/kg
Maximum value of SAR (interpolated) = 0.787 W/kg

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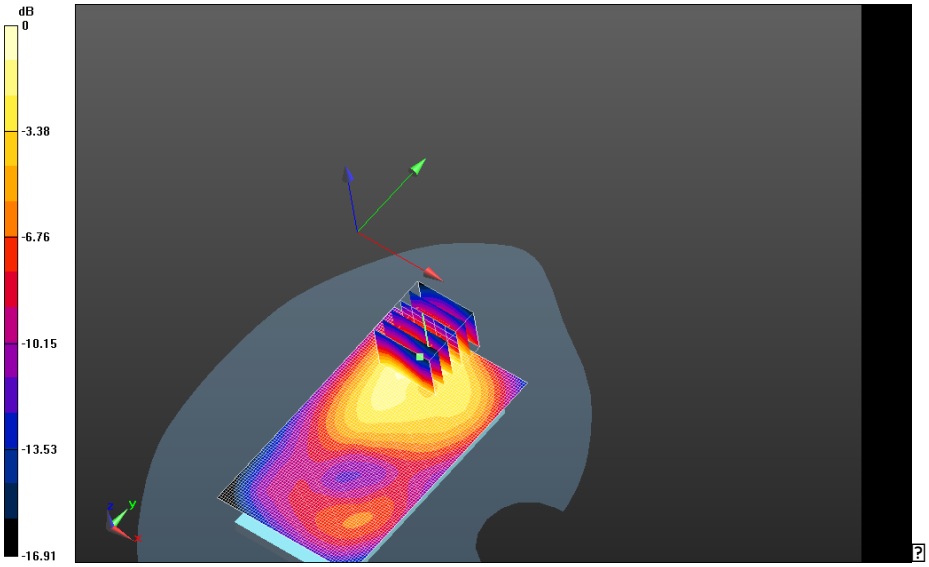

0 dB = 0.588 W/kg = -2.31 dBW/kg

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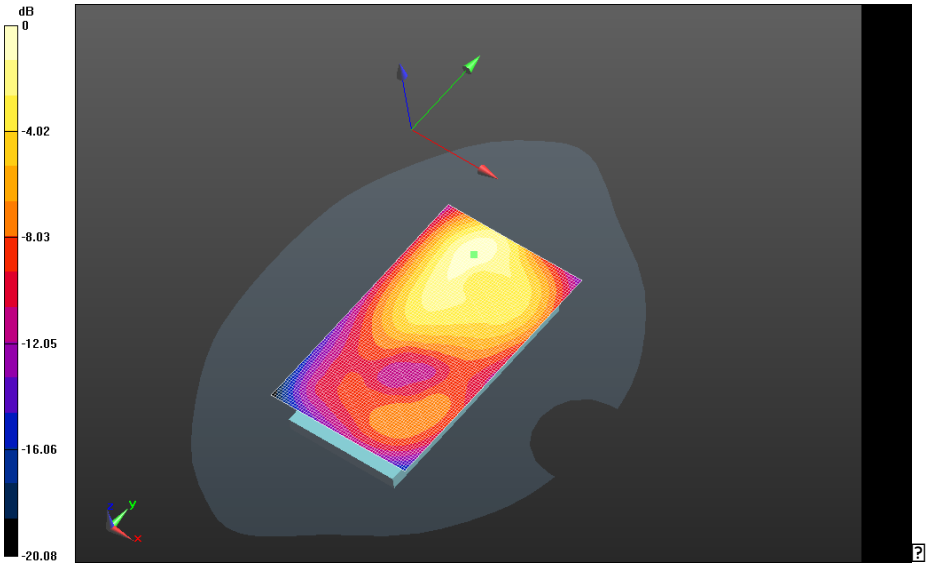
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.769 V/m; **Power Drift = 0.019 dB**

Fast SAR: SAR(1g) = 0.405 W/kg; SAR(10g) = 0.225 W/kg
Maximum value of SAR (interpolated) = 0.510 W/kg



0 dB = 0.588 W/kg = -2.31 dBW/kg

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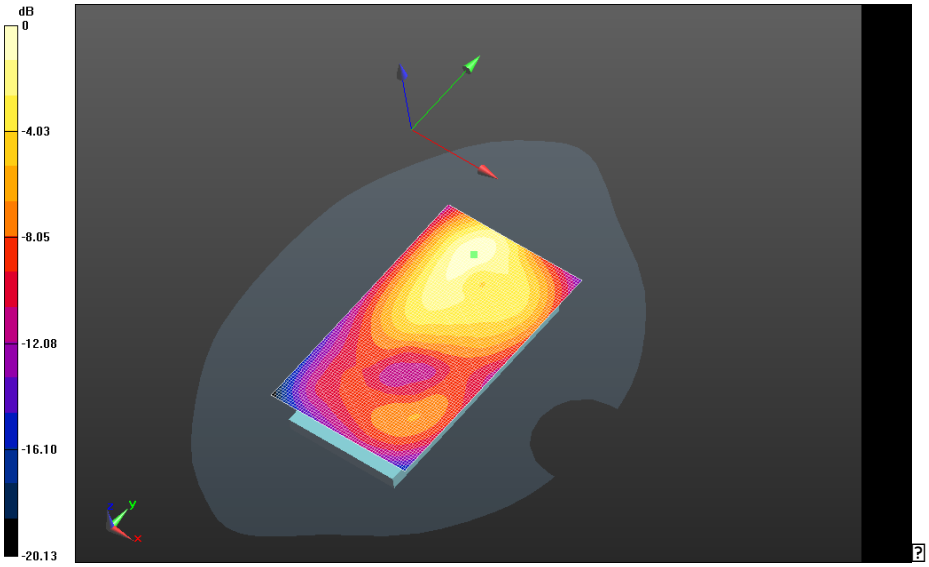
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_3-Slots_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.893 V/m; **Power Drift = 0.062 dB**

Fast SAR: SAR(1g) = 0.421 W/kg; SAR(10g) = 0.234 W/kg
Maximum value of SAR (interpolated) = 0.530 W/kg



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

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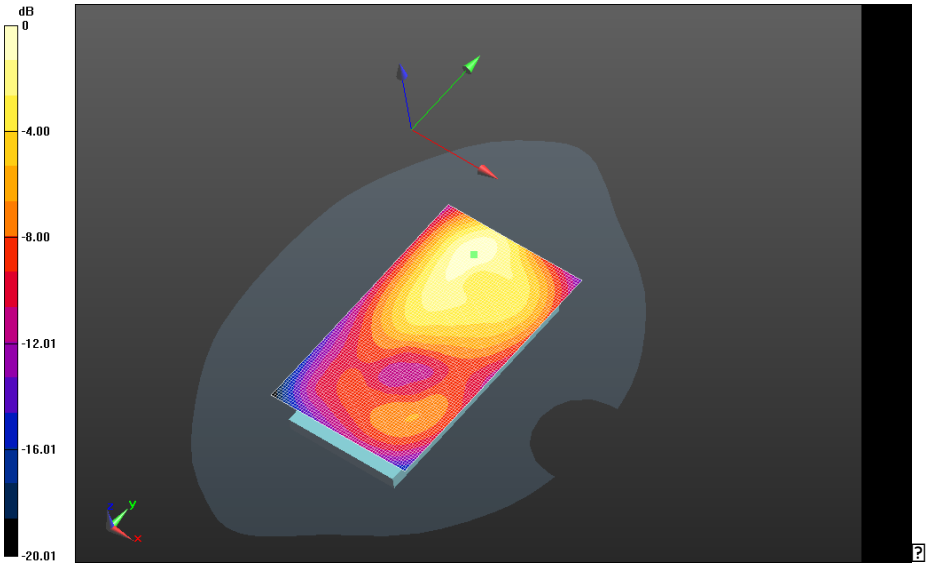
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900_4-Slots_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.667 V/m; **Power Drift = 0.063 dB**

Fast SAR: SAR(1g) = 0.401 W/kg; SAR(10g) = 0.224 W/kg
Maximum value of SAR (interpolated) = 0.504 W/kg



0 dB = 0.530 W/kg = -2.76 dBW/kg

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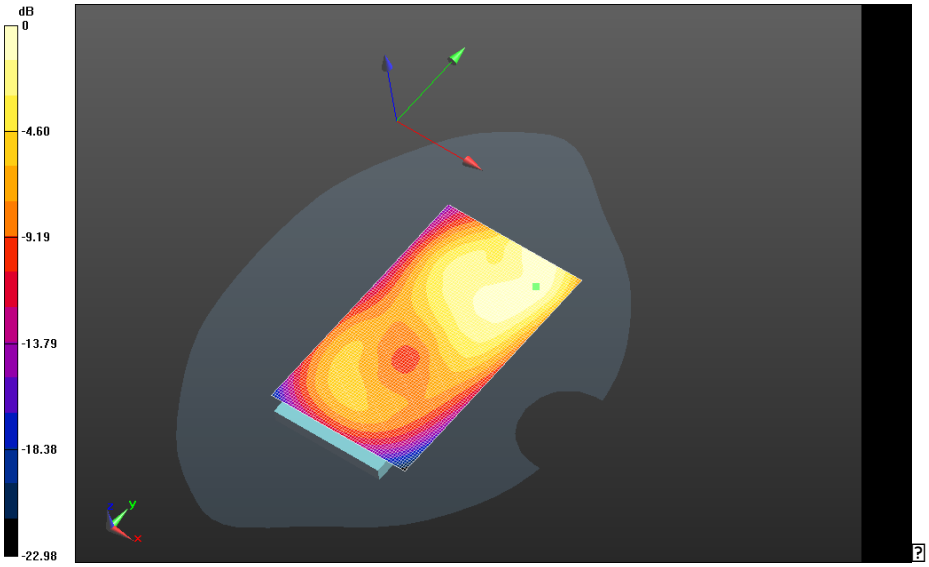
Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GSM1900_chan661_amb_temp_23.6C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.410 V/m; **Power Drift = 0.022 dB**

Fast SAR: SAR(1g) = 0.343 W/kg; SAR(10g) = 0.201 W/kg
Maximum value of SAR (interpolated) = 0.428 W/kg



0 dB = 0.504 W/kg = -2.98 dBW/kg

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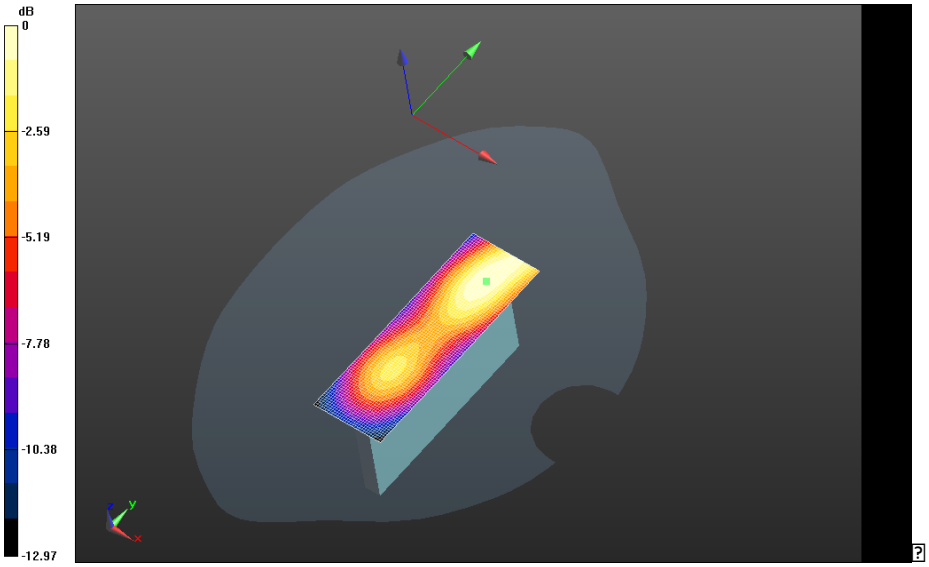
Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GSM1900_chan661_amb_temp_22.9C_liq_temp_21.9C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.773 V/m; **Power Drift = 0.013 dB**

Fast SAR: SAR(1g) = 0.170 W/kg; SAR(10g) = 0.0977 W/kg
Maximum value of SAR (interpolated) = 0.206 W/kg



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

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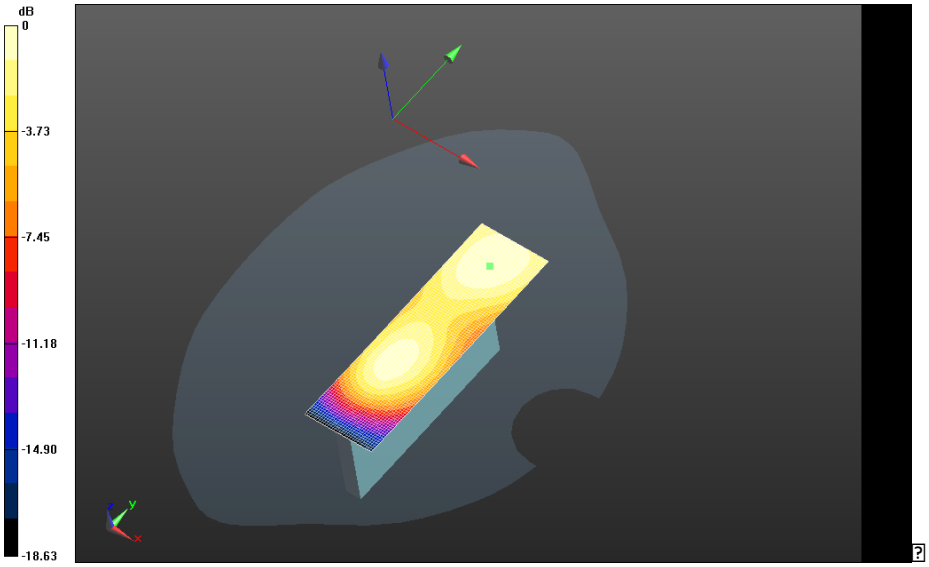
Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GSM1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.345 V/m; **Power Drift = 0.061 dB**

Fast SAR: SAR(1g) = 0.0451 W/kg; SAR(10g) = 0.0279 W/kg
Maximum value of SAR (interpolated) = 0.0539 W/kg



0 dB = 0.206 W/kg = -6.86 dBW/kg

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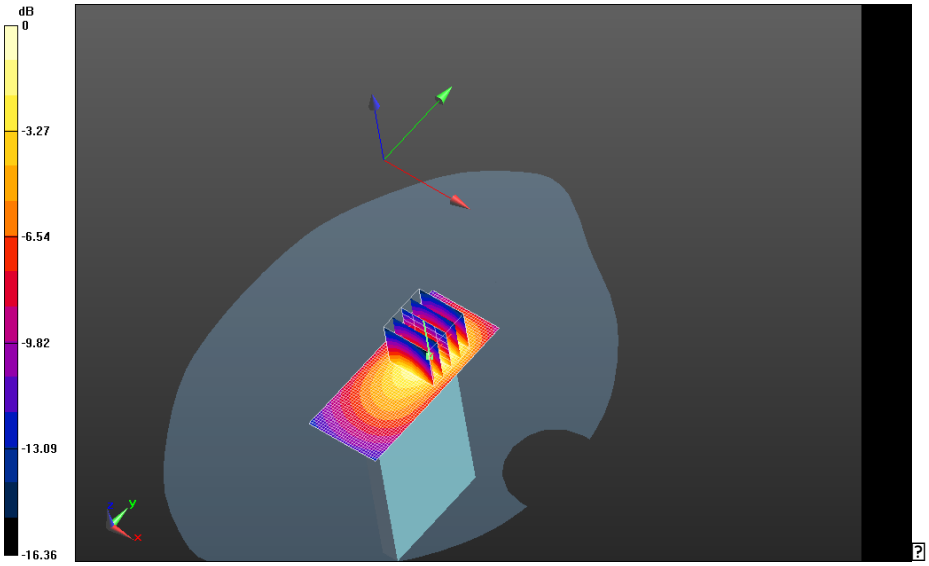
Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom - GSM1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.507 V/m; **Power Drift = -0.065 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom - GSM1900_chan661_amb_temp_22.8C_liq_temp_21.1C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.507 V/m; **Power Drift = -0.065 dB**

Averaged SAR: SAR(1g) = 0.454 W/kg; SAR(10g) = 0.247 W/kg
Maximum value of SAR (interpolated) = 0.777 W/kg



0 dB = 0.0539 W/kg = -12.68 dBW/kg

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UMTS Band II

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Date: 7/5/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE967

Configuration: Mobile Hot Spot MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz
Medium Parameters used: f=1852.4 MHz; σ = 1.521 S/m; ε_r = 51.316; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS_II_chan9262_amb_temp_22.8C_liq_temp_22.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.290 V/m; **Power Drift = -0.017 dB**

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS_II_chan9262_amb_temp_22.8C_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 = 13.290 V/m; **Power Drift = -0.017 dB**

Averaged SAR: SAR(1g) = 0.987 W/kg; SAR(10g) = 0.567 W/kg
Maximum value of SAR (interpolated) = 1.61 W/kg

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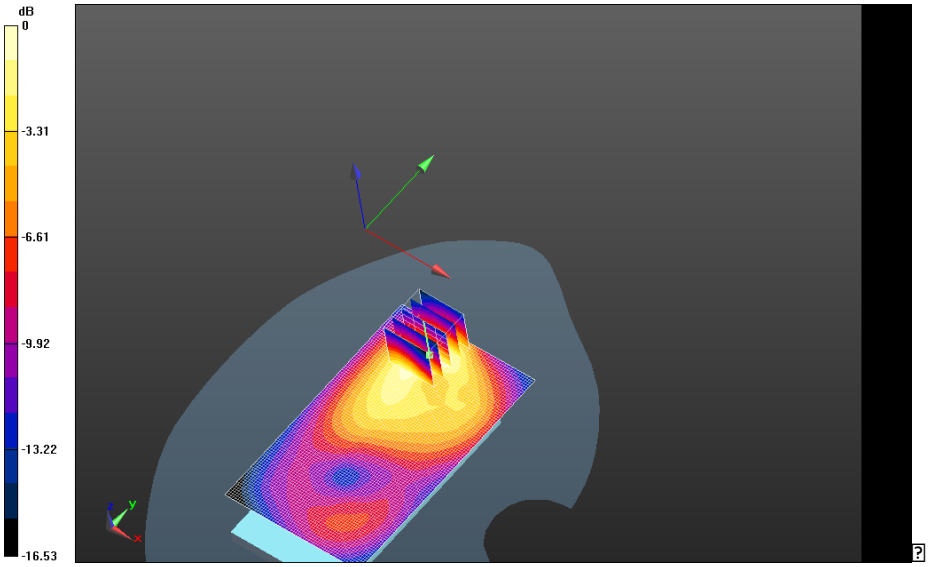

0 dB = 1.20 W/kg = 0.79 dBW/kg

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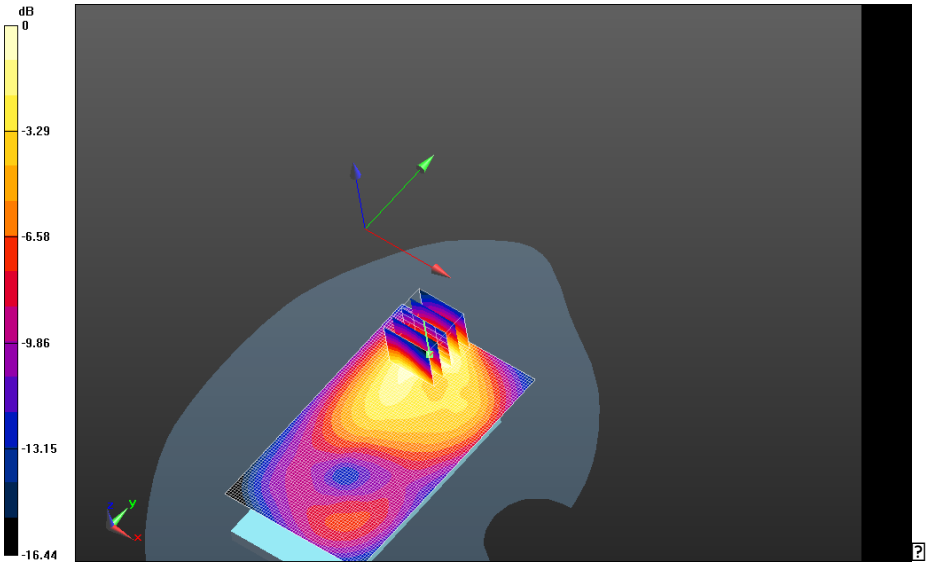
Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS_II_chan9262_2nd scan_amb_temp_22.9C_liq_temp_22.4C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.191 V/m; **Power Drift = 0.059 dB**

Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS_II_chan9262_2nd scan_amb_temp_22.9C_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 = 13.191 V/m; **Power Drift = 0.059 dB**

Averaged SAR: SAR(1g) = 0.980 W/kg; SAR(10g) = 0.563 W/kg
Maximum value of SAR (interpolated) = 1.58 W/kg



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

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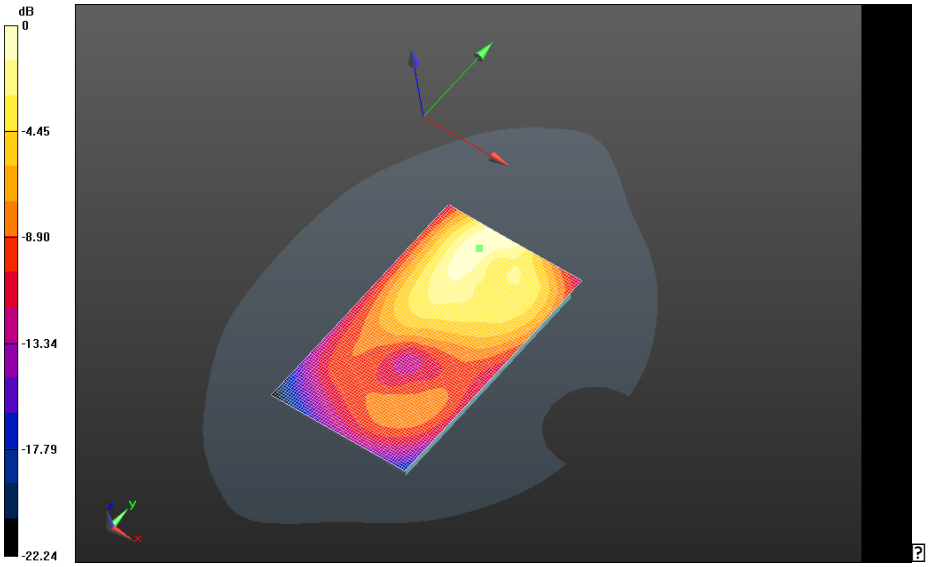
Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS_II_chan9400_amb_temp_23.0C_liq_temp_22.4C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.909 V/m; **Power Drift = -0.117 dB**

Fast SAR: SAR(1g) = 0.846 W/kg; SAR(10g) = 0.484 W/kg; Secondary SAR(1g) = 0.838 W/kg
Maximum value of SAR (interpolated) = 1.07 W/kg



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

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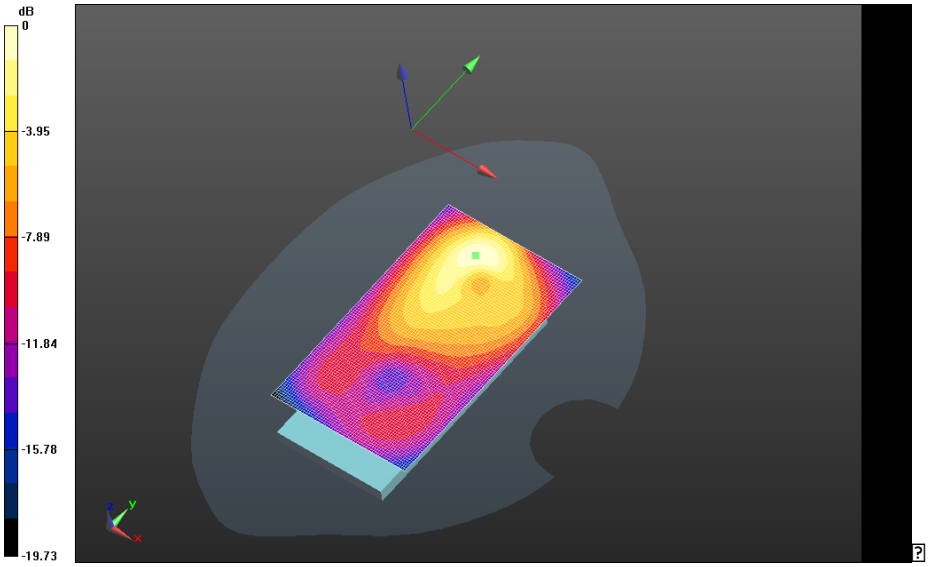
Mobile Hot Spot MSL - UMTS II/10mm Device Back - UMTS_II_chan9538_amb_temp_23.1C_liq_temp_22.4C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.298 V/m; **Power Drift = 0.010 dB**

Fast SAR: SAR(1g) = 0.956 W/kg; SAR(10g) = 0.506 W/kg; Secondary SAR(1g) = 0.838 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



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

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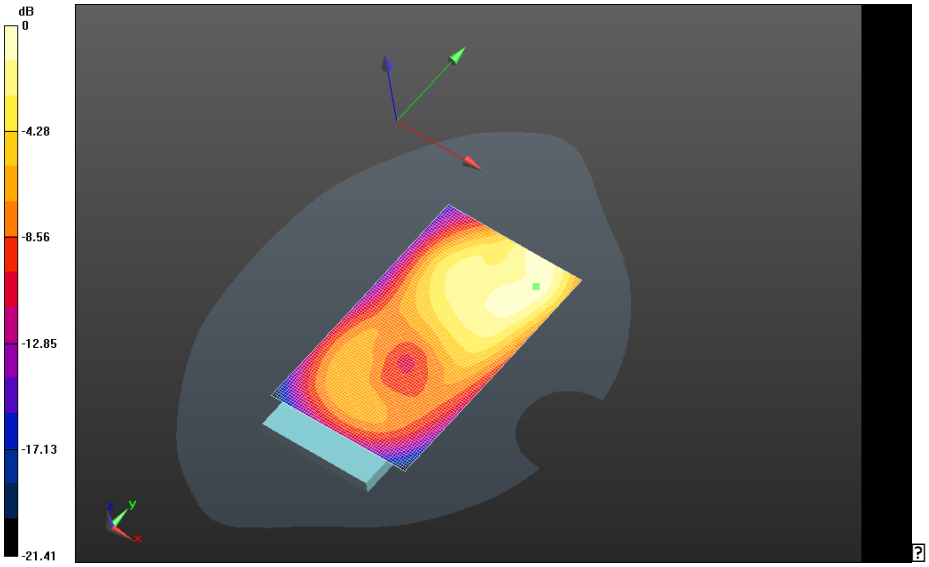
Mobile Hot Spot MSL - UMTS II/10mm Device Front - UMTS_II_chan9400_amb_temp_23.0C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.422 V/m; **Power Drift = 0.091 dB**

Fast SAR: SAR(1g) = 0.540 W/kg; SAR(10g) = 0.311 W/kg; Secondary SAR(1g) = 0.838 W/kg
Maximum value of SAR (interpolated) = 0.678 W/kg



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

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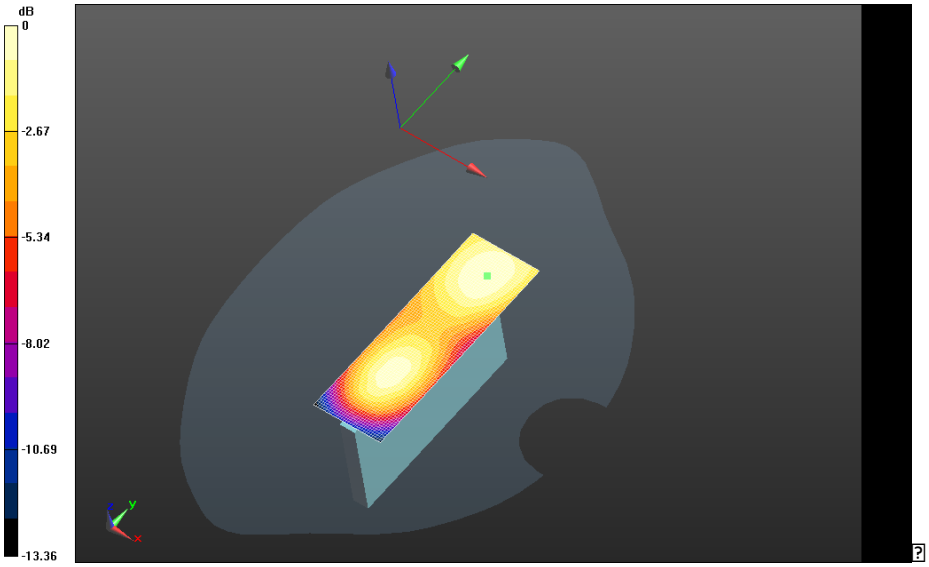
Mobile Hot Spot MSL - UMTS II/10mm Device Left - UMTS_II_chan9400_amb_temp_23.0C_liq_temp_22.0C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.955 V/m; **Power Drift = 0.094 dB**

Fast SAR: SAR(1g) = 0.0813 W/kg; SAR(10g) = 0.0500 W/kg; Secondary SAR(1g) = 0.838 W/kg
Maximum value of SAR (interpolated) = 0.0972 W/kg



0 dB = 0.678 W/kg = -1.69 dBW/kg

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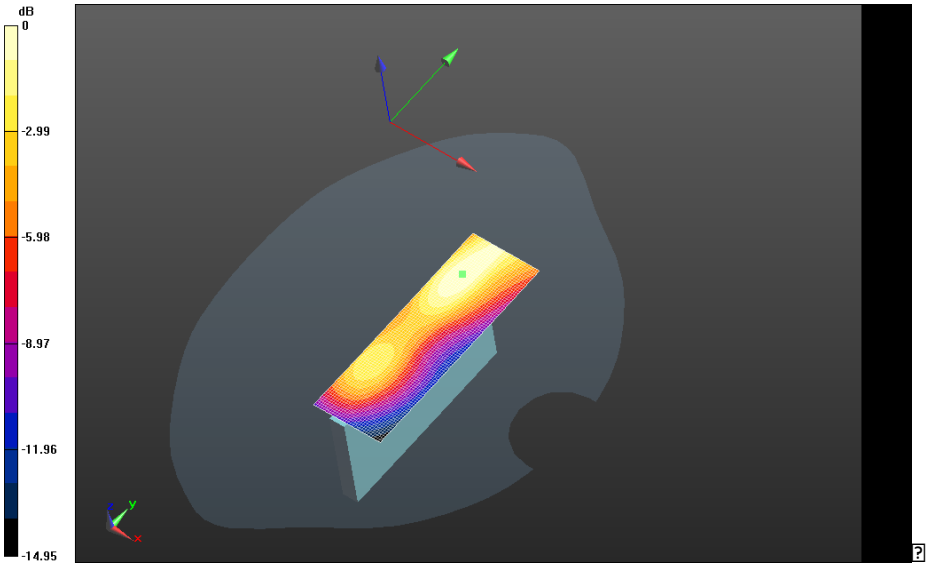
Mobile Hot Spot MSL - UMTS II/10mm Device Right - UMTS_II_chan9400_amb_temp_22.9C_liq_temp_22.1C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.930 V/m; **Power Drift = 0.084 dB**

Fast SAR: SAR(1g) = 0.288 W/kg; SAR(10g) = 0.165 W/kg; Secondary SAR(1g) = 0.838 W/kg
Maximum value of SAR (interpolated) = 0.355 W/kg



0 dB = 0.0972 W/kg = -10.12 dBW/kg

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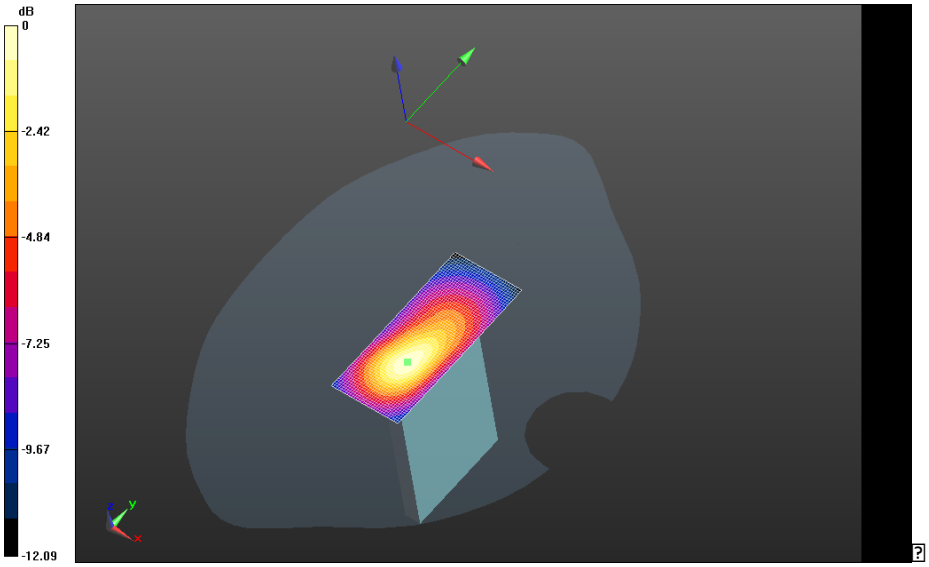
Mobile Hot Spot MSL - UMTS II/10mm Device Bottom - UMTS_II_chan9400_amb_temp_22.8C_liq_temp_22.2C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.933 V/m; **Power Drift = 0.016 dB**

Fast SAR: SAR(1g) = 0.668 W/kg; SAR(10g) = 0.359 W/kg; Secondary SAR(1g) = 0.838 W/kg
Maximum value of SAR (interpolated) = 0.854 W/kg



0 dB = 0.355 W/kg = -4.50 dBW/kg

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LTE 2

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Date: 7/9/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Mobile Hot Spot MSL - LTE Band 2

Communication System: LTE 2; Communication System Band: LTE Band 2; Frequency: 1860 MHz
Medium Parameters used: f=1860 MHz; σ = 1.502 S/m; ε_r = 51.048; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.032 V/m; **Power Drift = -0.076 dB**

Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.032 V/m; **Power Drift = -0.079 dB**

Averaged SAR: SAR(1g) = 0.738 W/kg; SAR(10g) = 0.424 W/kg
Maximum value of SAR (interpolated) = 1.20 W/kg

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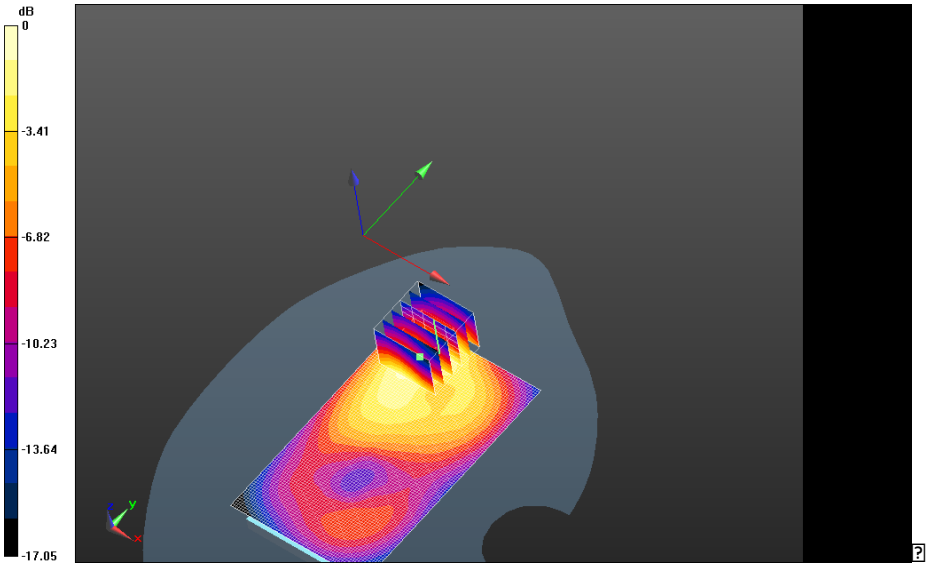

0 dB = 0.867 W/kg = -0.62 dBW/kg

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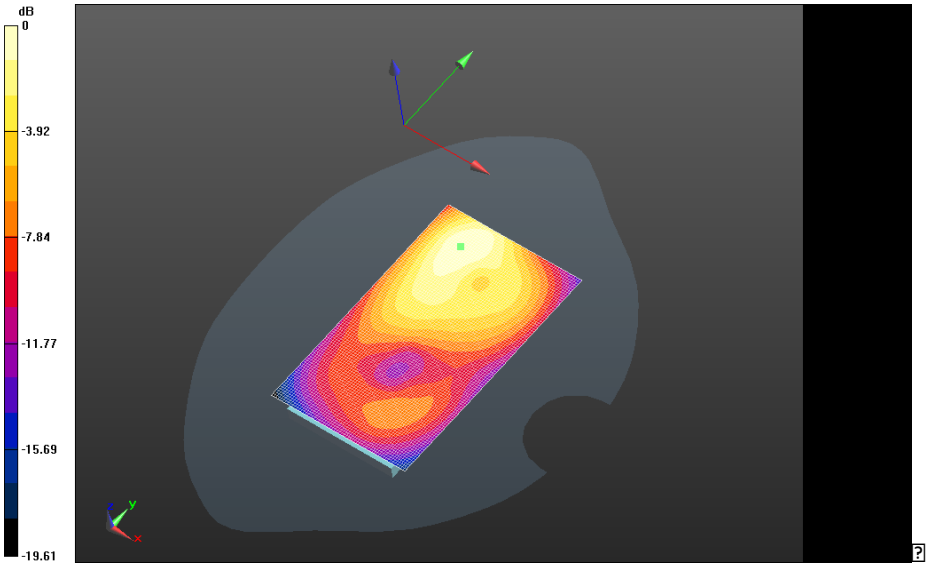
Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE_Band_2_chan18700_RB50_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.720 V/m; **Power Drift = 0.072 dB**

Fast SAR: SAR(1g) = 0.531 W/kg; SAR(10g) = 0.313 W/kg
Maximum value of SAR (interpolated) = 0.648 W/kg



0 dB = 0.867 W/kg = -0.62 dBW/kg

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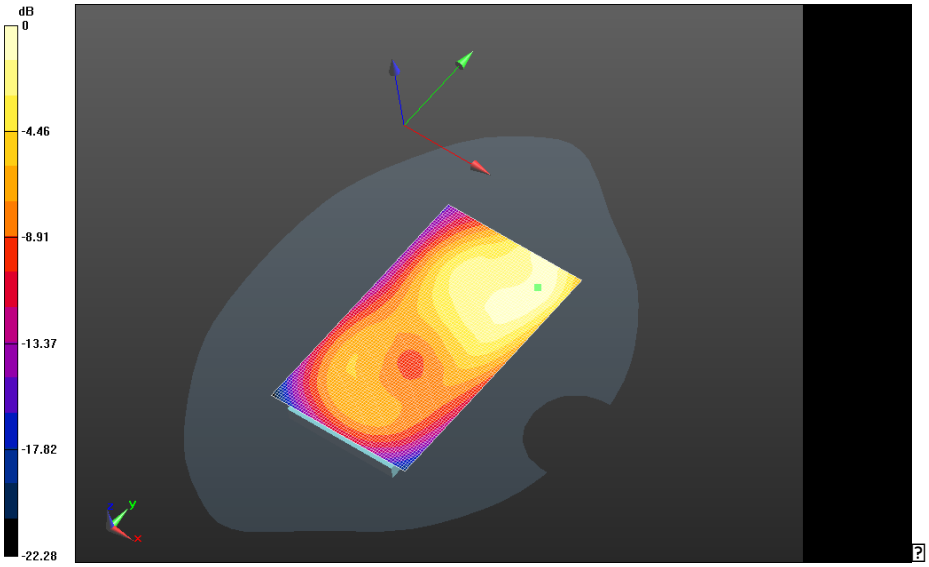
Mobile Hot Spot MSL - LTE Band 2/10mm Device Front - LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.234 V/m; **Power Drift = -0.039 dB**

Fast SAR: SAR(1g) = 0.618 W/kg; SAR(10g) = 0.357 W/kg
Maximum value of SAR (interpolated) = 0.769 W/kg



0 dB = 0.648 W/kg = -1.88 dBW/kg

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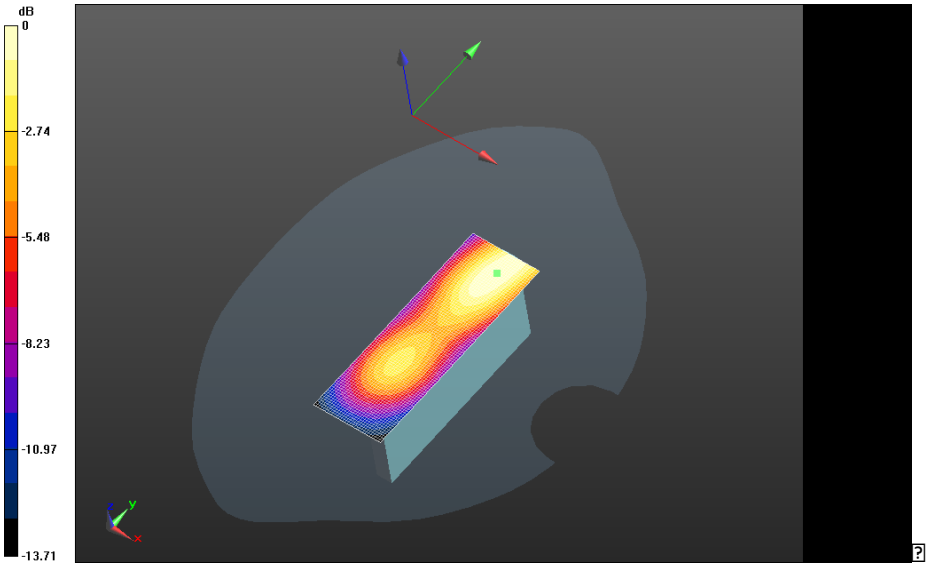
Mobile Hot Spot MSL - LTE Band 2/10mm Device Left - LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan (31x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.438 V/m; **Power Drift = 0.00917 dB**

Fast SAR: SAR(1g) = 0.323 W/kg; SAR(10g) = 0.187 W/kg
Maximum value of SAR (interpolated) = 0.391 W/kg



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

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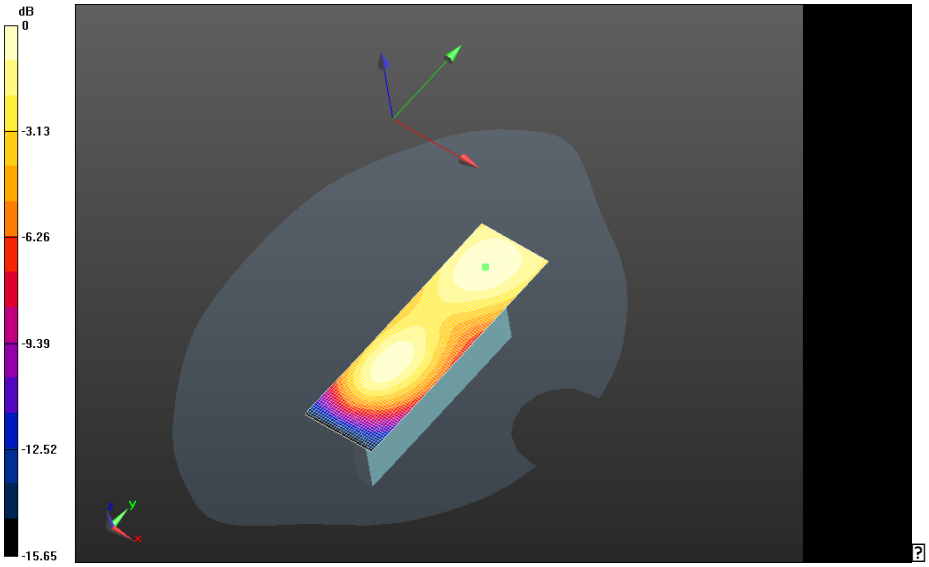
Mobile Hot Spot MSL - LTE Band 2/10mm Device Right - LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.332 V/m; **Power Drift = -0.00117 dB**

Fast SAR: SAR(1g) = 0.0835 W/kg; SAR(10g) = 0.0518 W/kg
Maximum value of SAR (interpolated) = 0.0996 W/kg



0 dB = 0.391 W/kg = -4.08 dBW/kg

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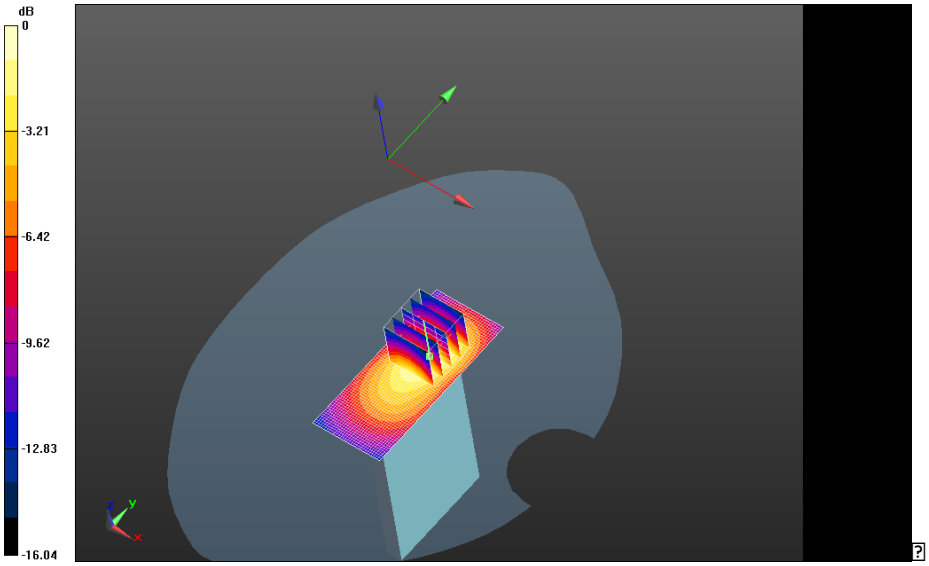
Mobile Hot Spot MSL - LTE Band 2/10mm Device Bottom - LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.689 V/m; **Power Drift = 0.00517 dB**

Mobile Hot Spot MSL - LTE Band 2/10mm Device Bottom - LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 19.689 V/m; **Power Drift = 0.00517 dB**

Averaged SAR: SAR(1g) = 0.717 W/kg; SAR(10g) = 0.395 W/kg
Maximum value of SAR (interpolated) = 1.21 W/kg



0 dB = 0.0996 W/kg = -10.02 dBW/kg

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802.11b power

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Date: 10/8/2013

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF7DAD

Configuration: Mobile Hot Spot MSL - 802.11g

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; σ = 2.006 S/m; ε_r = 50.271; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL - 802.11g/10mm Device Back - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0785 W/kg

Mobile Hot Spot MSL - 802.11g/10mm Device Back - 802.11g_chan6_amb_temp_23.5C_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 = 3.819 V/m; **Power Drift = 0.087 dB**

Averaged SAR: SAR(1g) = 0.0642 W/kg; SAR(10g) = 0.0300 W/kg
Maximum value of SAR (interpolated) = 0.147 W/kg

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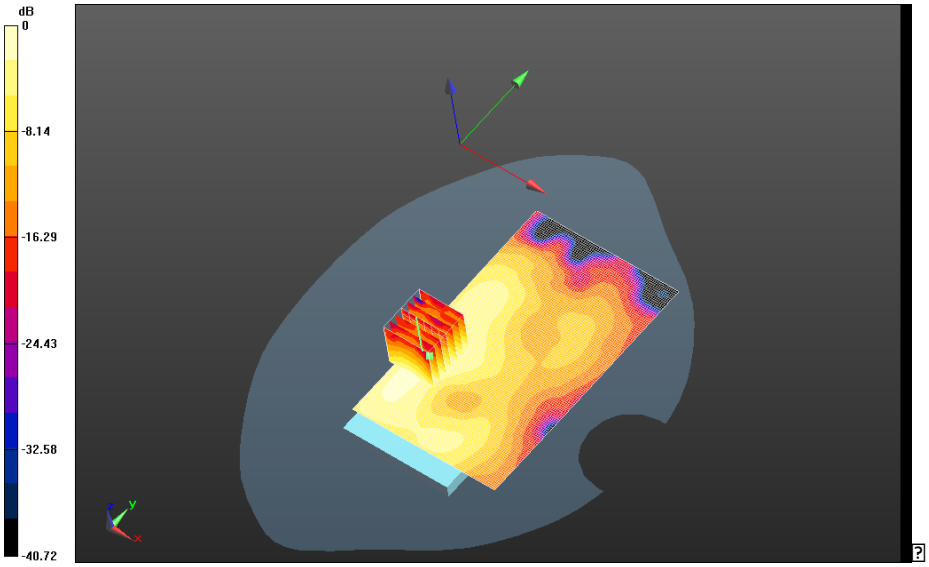

0 dB = 0.0838 W/kg = -10.77 dBW/kg

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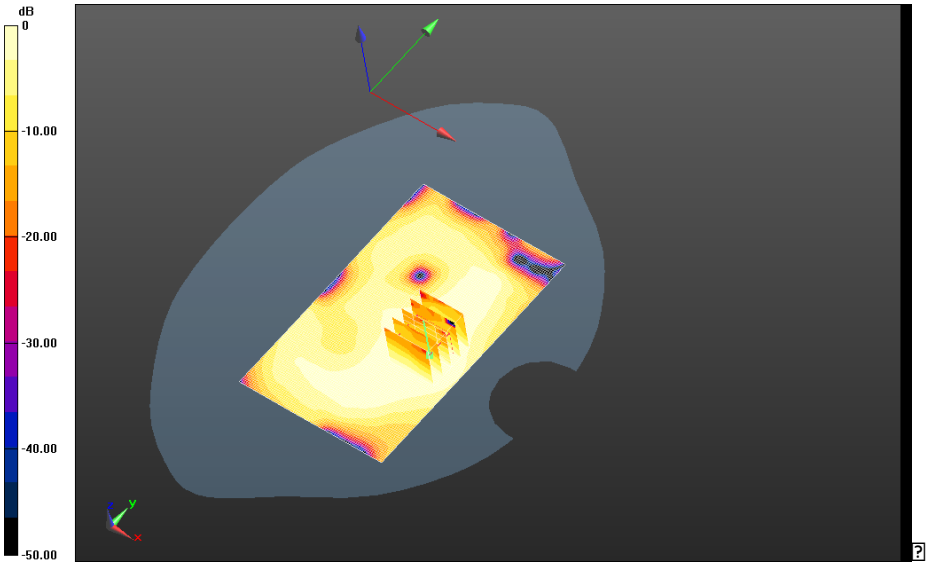
Mobile Hot Spot MSL - 802.11g/10mm Device Front - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0196 W/kg

Mobile Hot Spot MSL - 802.11g/10mm Device Front - 802.11g_chan6_amb_temp_23.5C_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 = 1.905 V/m; **Power Drift = -0.024 dB**

Averaged SAR: SAR(1g) = 0.0155 W/kg; SAR(10g) = 0.00835 W/kg
Maximum value of SAR (interpolated) = 0.0315 W/kg



0 dB = 0.0838 W/kg = -10.77 dBW/kg

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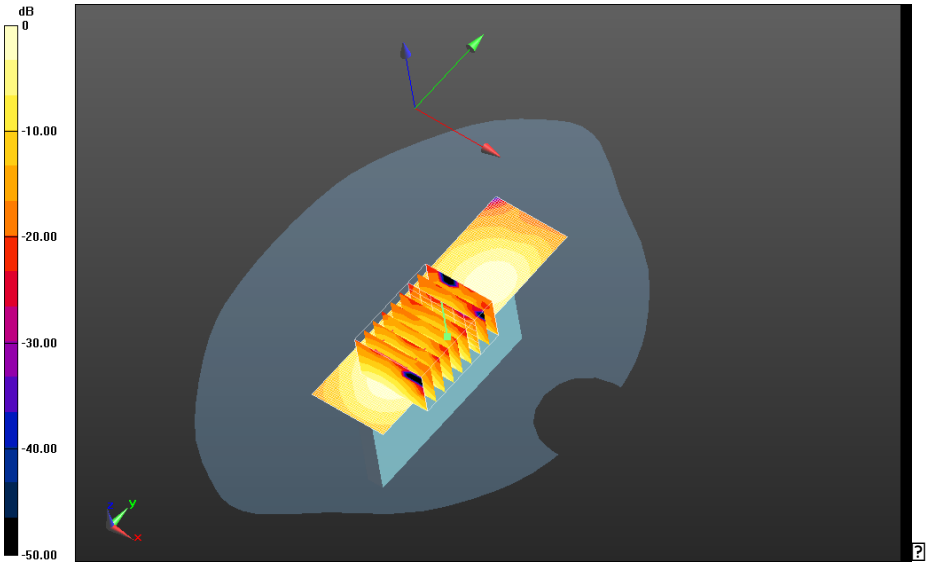
Mobile Hot Spot MSL - 802.11g/10mm Device Left - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Area Scan (41x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0759 W/kg

Mobile Hot Spot MSL - 802.11g/10mm Device Left - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Zoom Scan (31x41x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.263 V/m; **Power Drift = -0.033 dB**

Averaged SAR: SAR(1g) = 0.0554 W/kg; SAR(10g) = 0.0295 W/kg
Maximum value of SAR (interpolated) = 0.114 W/kg



0 dB = 0.0168 W/kg = -17.75 dBW/kg

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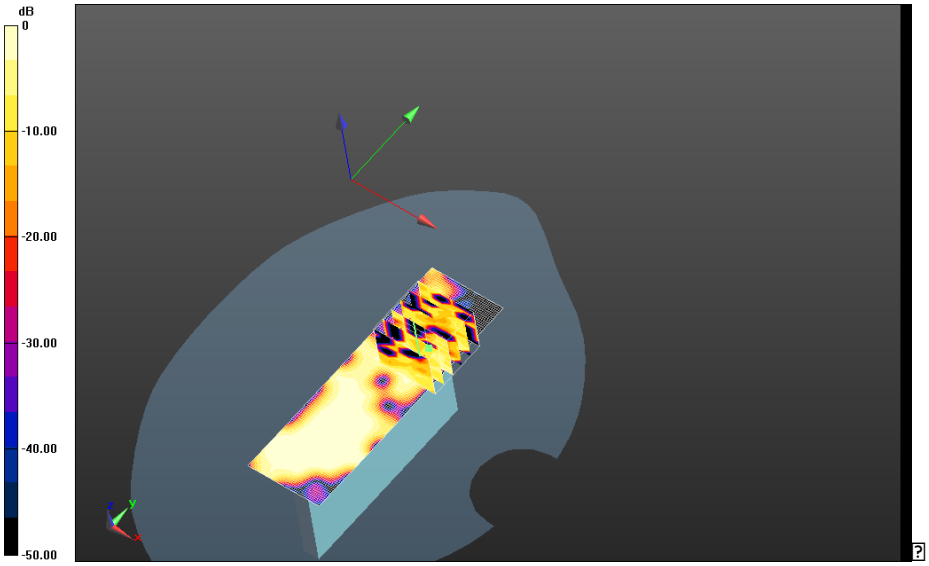
Mobile Hot Spot MSL - 802.11g/10mm Device Right - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Area Scan (41x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00809 W/kg

Mobile Hot Spot MSL - 802.11g/10mm Device Right - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 1.868 V/m; **Power Drift = 0.021 dB**

Averaged SAR: SAR(1g) = 0.00329 W/kg; SAR(10g) = 0.000859 W/kg
Maximum value of SAR (interpolated) = 0.0162 W/kg



0 dB = 0.0612 W/kg = -12.13 dBW/kg

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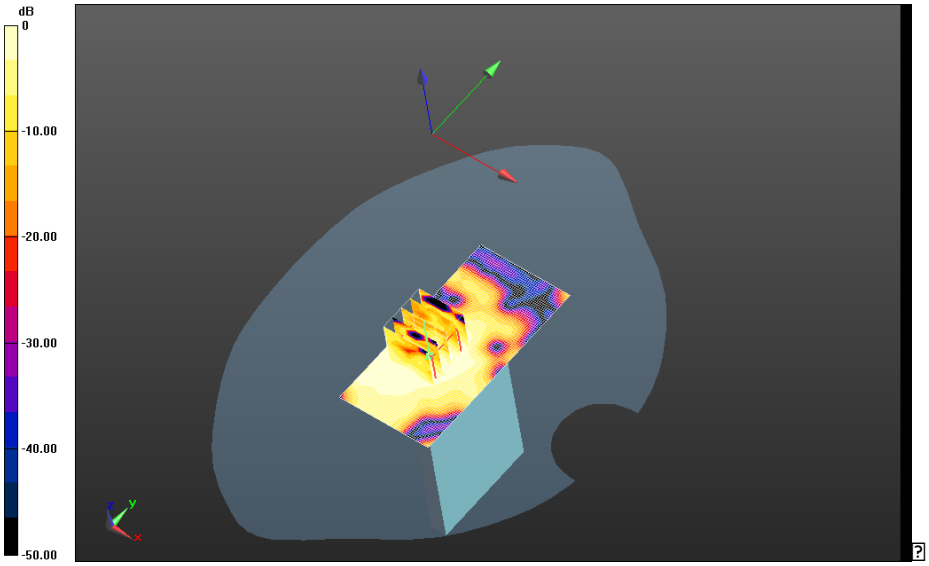
Mobile Hot Spot MSL - 802.11g/10mm Device Top - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00602 W/kg

Mobile Hot Spot MSL - 802.11g/10mm Device Top - 802.11g_chan6_amb_temp_23.5C_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 = 1.794 V/m; **Power Drift = -0.045 dB**

Averaged SAR: SAR(1g) = 0.00444 W/kg; SAR(10g) = 0.00213 W/kg
Maximum value of SAR (interpolated) = 0.0129 W/kg



0 dB = 0.00278 W/kg = -25.56 dBW/kg

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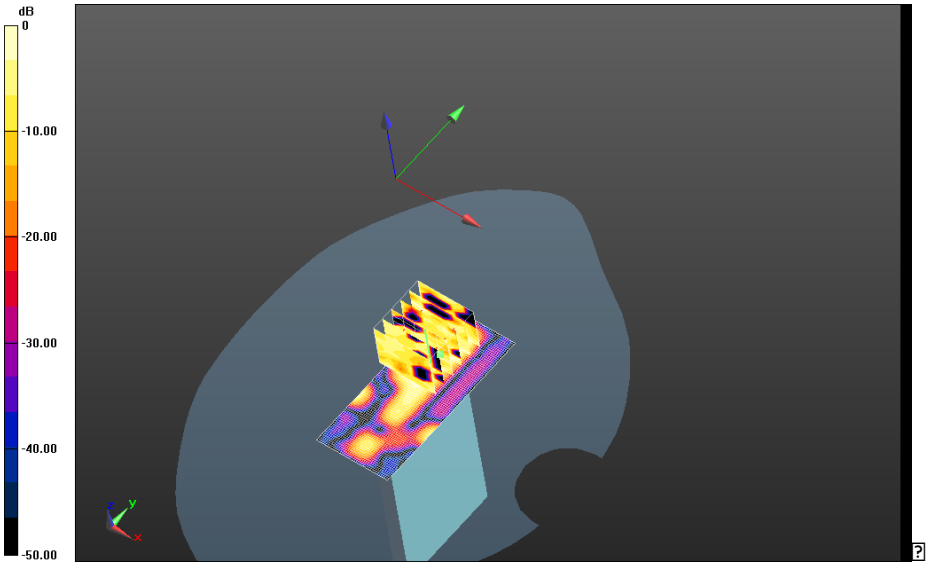
Mobile Hot Spot MSL - 802.11g/10mm Device Bottom - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Area Scan (41x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00385 W/kg

Mobile Hot Spot MSL - 802.11g/10mm Device Bottom - 802.11g_chan6_amb_temp_23.5C_liq_temp_22.4C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 1.220 V/m; **Power Drift = -0.179 dB**

Averaged SAR: SAR(1g) = 0.00152 W/kg; SAR(10g) = 0.000458 W/kg
Maximum value of SAR (interpolated) = 0.00628 W/kg



0 dB = 0.00539 W/kg = -22.68 dBW/kg

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Bluetooth

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Date: 7/19/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Mobile Hot Spot MSL -Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz
Medium Parameters used: f=2441 MHz; σ = 1.998 S/m; ε_r = 50.773; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Mobile Hot Spot MSL -Bluetooth/10mm Device Back - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0153 W/kg

Mobile Hot Spot MSL -Bluetooth/10mm Device Back - Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 2.681 V/m; **Power Drift = 0.345 dB**

Averaged SAR: SAR(1g) = 0.0135 W/kg; SAR(10g) = 0.00617 W/kg
Maximum value of SAR (interpolated) = 0.0722 W/kg

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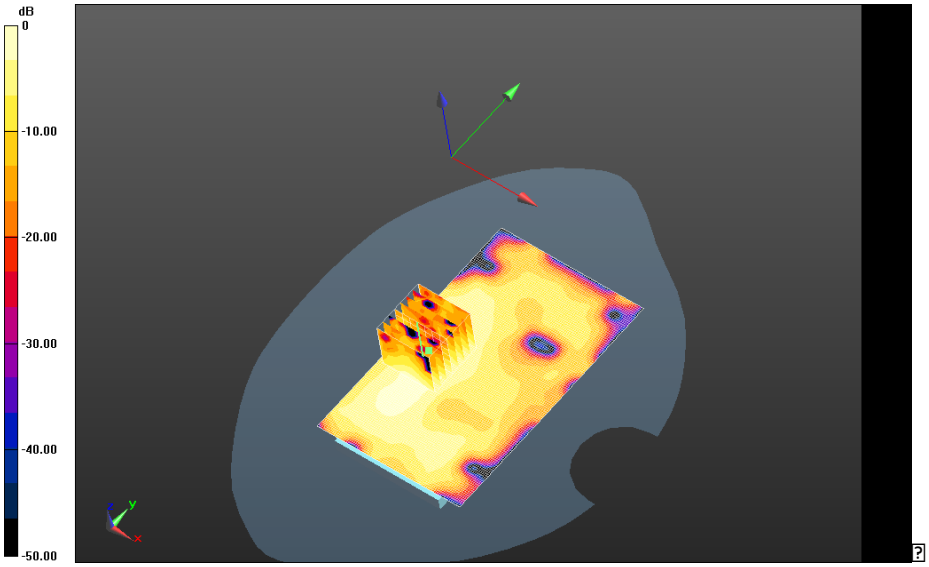

0 dB = 0.0184 W/kg = -17.35 dBW/kg

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802.11a

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Date: 12/10/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE447

Configuration: Mobile Hotspot MSL - 802.11a 5200 MHz

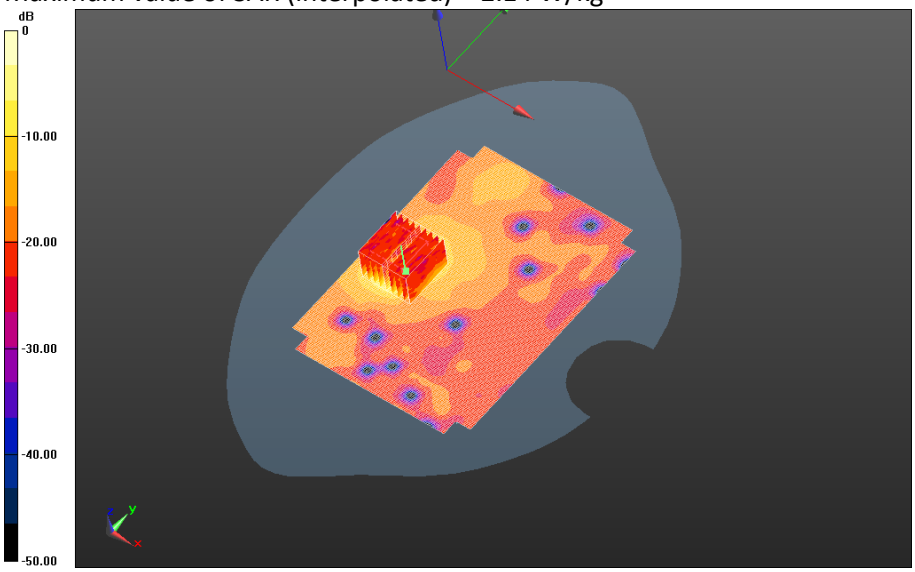
Communication System: 802.11a (0); Communication System Band: Low and Mid Bands; Frequency: 5180 MHz
Medium Parameters used: f=5180 MHz; σ = 5.612 S/m; ε_r = 46.703; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (4.06,4.06,4.06); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_22.2C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.688 V/m; **Power Drift = 0.035 dB**

Averaged SAR: SAR(1g) = 0.512 W/kg; SAR(10g) = 0.144 W/kg
Maximum value of SAR (interpolated) = 2.14 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

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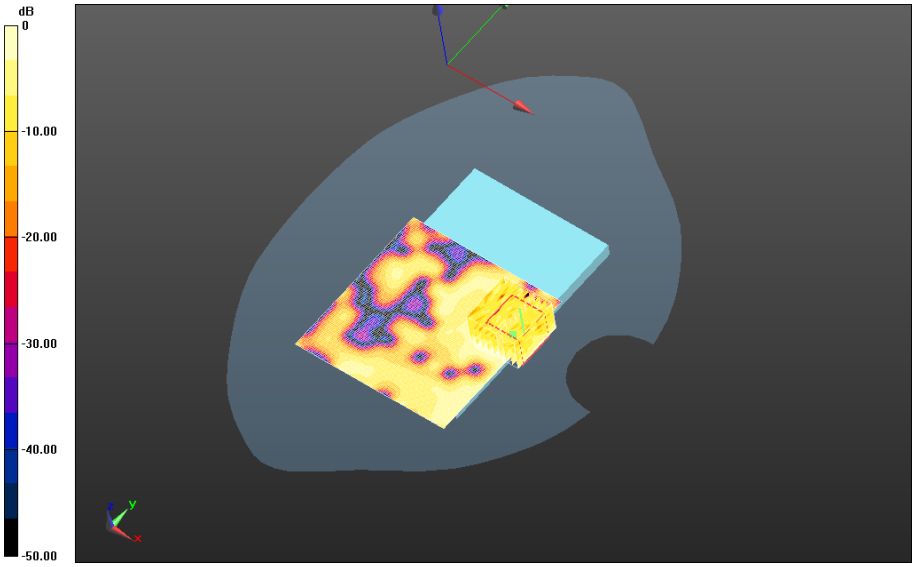
Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Front - 802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_22.1C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.051 V/m; **Power Drift = 0.060 dB**

Averaged SAR: SAR(1g) = 0.0256 W/kg; SAR(10g) = 0.0137 W/kg
Maximum value of SAR (interpolated) = 0.0702 W/kg



0 dB = 0.0415 W/kg = -13.82 dBW/kg

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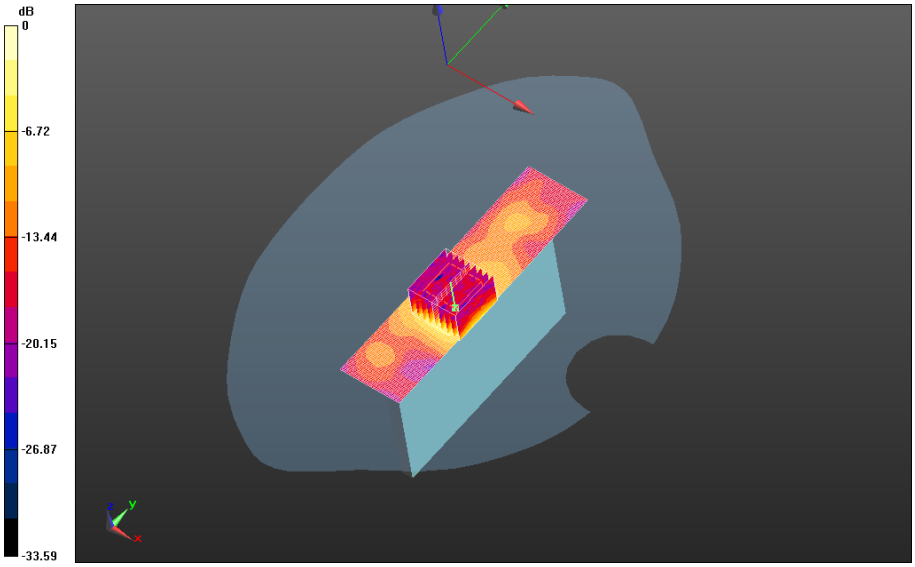
Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Left - 802.11a_chan36_low_band_Amb_Temp_23.3C_Liquid_Temp_22.1.C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 5.405 V/m; **Power Drift = -0.089 dB**

Averaged SAR: SAR(1g) = 0.238 W/kg; SAR(10g) = 0.0832 W/kg
Maximum value of SAR (interpolated) = 0.918 W/kg



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

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Date: 12/8/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE447

Configuration: Mobile Hotspot MSL - 802.11a 5800 MHz

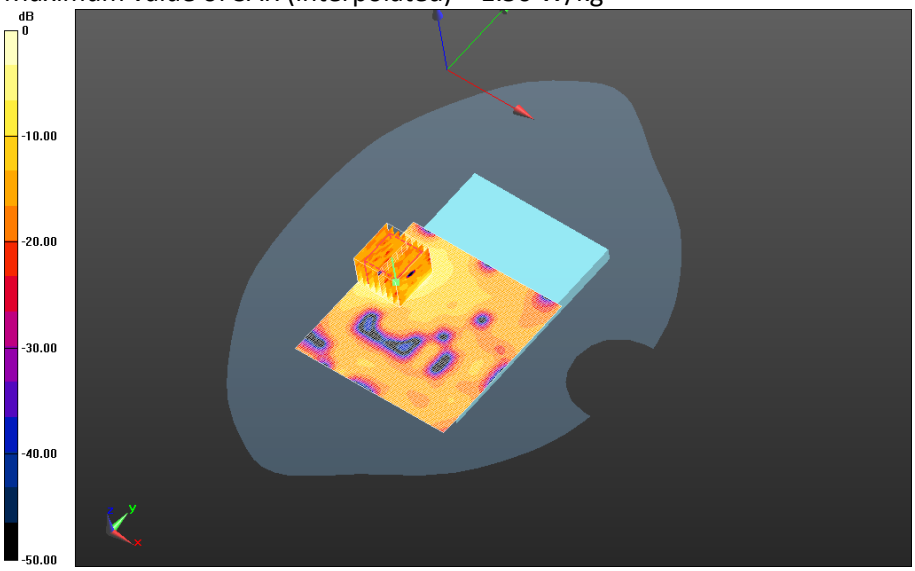
Communication System: 802.11a (0); Communication System Band: Upper Band II; Frequency: 5765 MHz
Medium Parameters used: f=5765 MHz; σ = 6.451 S/m; ε_r = 45.242; ρ = 1.000 g/cm^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (3.86,3.86,3.86); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.0C_Liquid_Temp_21.5C/Zoom Scan (36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.475 V/m; **Power Drift = 0.109 dB**

Averaged SAR: SAR(1g) = 0.141 W/kg; SAR(10g) = 0.0452 W/kg
Maximum value of SAR (interpolated) = 1.50 W/kg



0 dB = 0.285 W/kg = -5.45 dBW/kg

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