APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOTSPOT CONFIGURATION

Revision History		
Rev. Number	**Date**	**Changes**
Initial	May 31, 2013	----------
Rev 2	Dec 16, 2014	Added SAR plots for 802.11a Hotspot mode 1. Page 127-133

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LTE Band 25 Full Power

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Date: 4/3/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - LTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1860 MHz
Medium Parameters used: f=1860 MHz; σ = 1.524 S/m; ε_r = 50.723; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26140_RB1_Off0_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.943 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26140_RB1_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.315 V/m; **Power Drift = -0.144 dB**

Averaged SAR: SAR(1g) = 0.844 W/kg; SAR(10g) = 0.496 W/kg
Maximum value of SAR (interpolated) = 1.37 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26140_RB1_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan 2 (31x36x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.315 V/m; **Power Drift = -0.108 dB**

Averaged SAR: SAR(1g) = 0.766 W/kg; SAR(10g) = 0.449 W/kg
Maximum value of SAR (interpolated) = 1.26 W/kg

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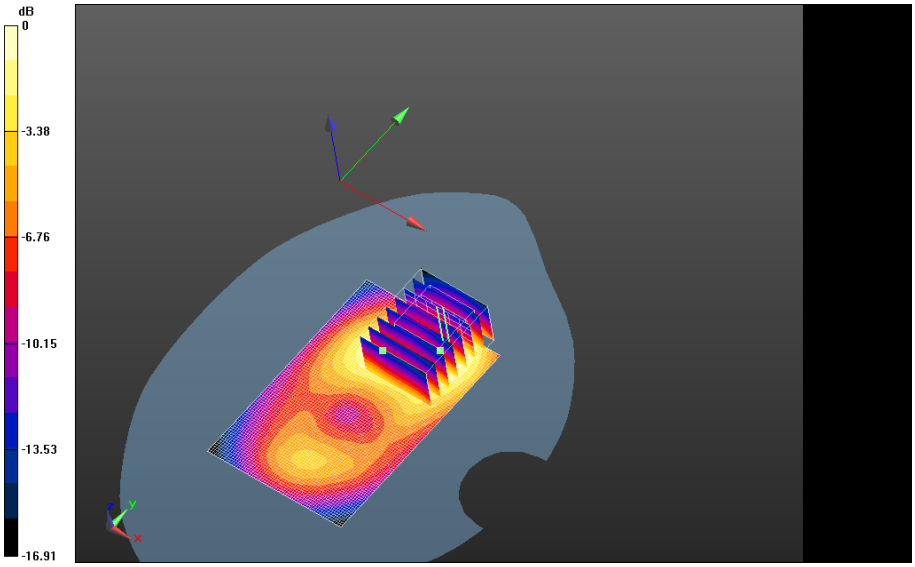

0 dB = 0.923 W/kg = -0.35 dBW/kg

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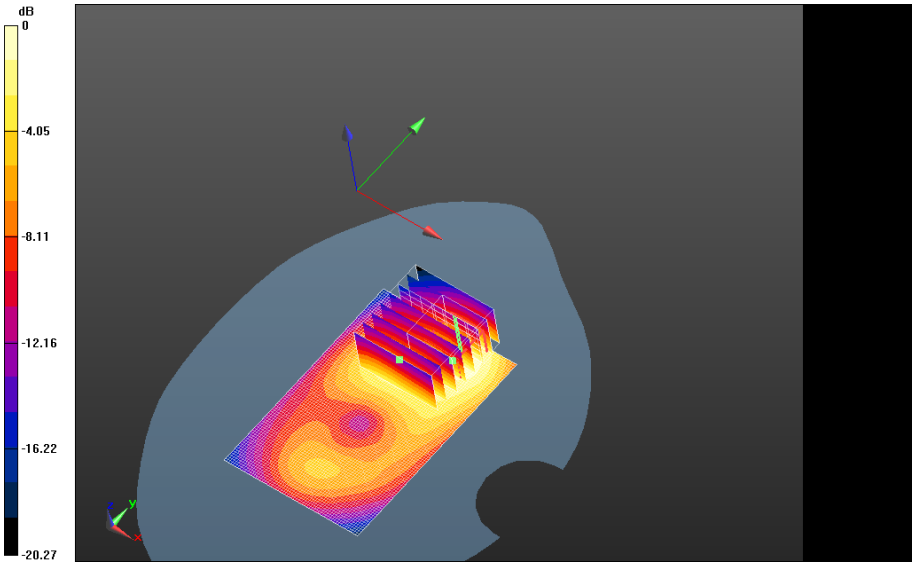
Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.979 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.322 V/m; **Power Drift = 0.030 dB**

Averaged SAR: SAR(1g) = 0.887 W/kg; SAR(10g) = 0.506 W/kg
Maximum value of SAR (interpolated) = 1.57 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan 2 (36x36x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.322 V/m; **Power Drift = 0.025 dB**

Averaged SAR: SAR(1g) = 0.858 W/kg; SAR(10g) = 0.501 W/kg
Maximum value of SAR (interpolated) = 1.41 W/kg



0 dB = 0.923 W/kg = -0.35 dBW/kg

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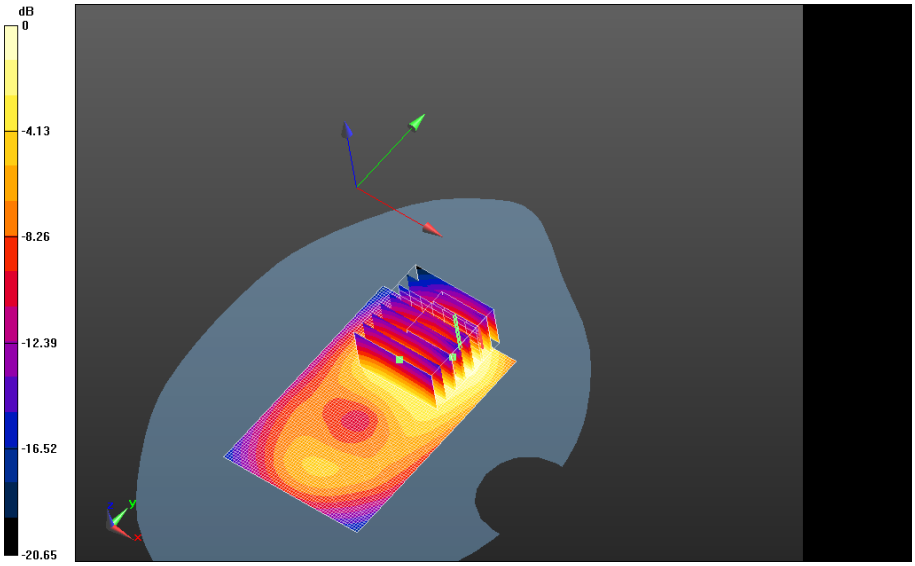
Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB1_Off99_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.04 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB1_Off99_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.439 V/m; **Power Drift = -0.031 dB**

Averaged SAR: SAR(1g) = 0.874 W/kg; SAR(10g) = 0.510 W/kg
Maximum value of SAR (interpolated) = 1.44 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB1_Off99_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan 2 (36x36x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.439 V/m; **Power Drift = -0.00258 dB**

Averaged SAR: SAR(1g) = 0.848 W/kg; SAR(10g) = 0.496 W/kg
Maximum value of SAR (interpolated) = 1.40 W/kg



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

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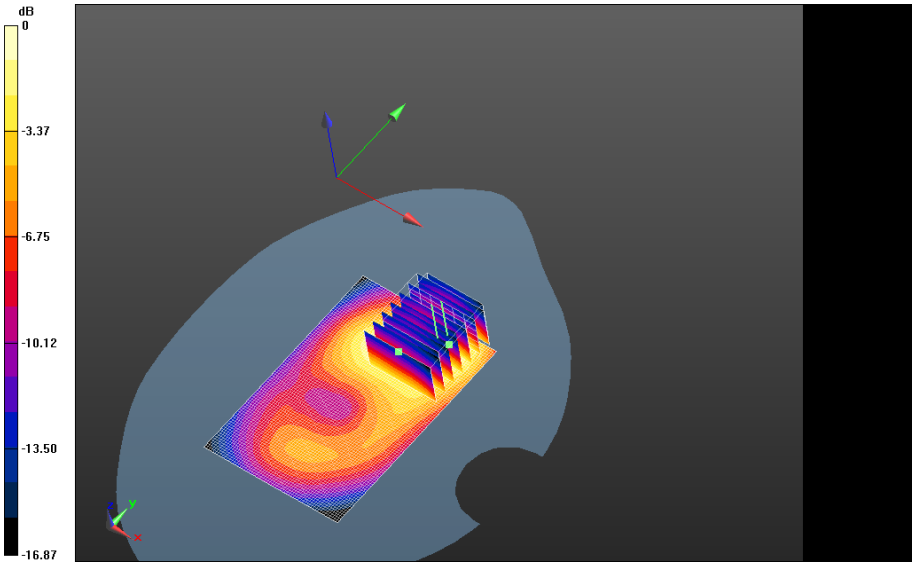
Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB50_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.752 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB50_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.435 V/m; **Power Drift = -0.085 dB**

Averaged SAR: SAR(1g) = 0.680 W/kg; SAR(10g) = 0.394 W/kg
Maximum value of SAR (interpolated) = 1.12 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB50_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan 2 (31x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.435 V/m; **Power Drift = -0.108 dB**

Averaged SAR: SAR(1g) = 0.664 W/kg; SAR(10g) = 0.388 W/kg
Maximum value of SAR (interpolated) = 1.11 W/kg



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

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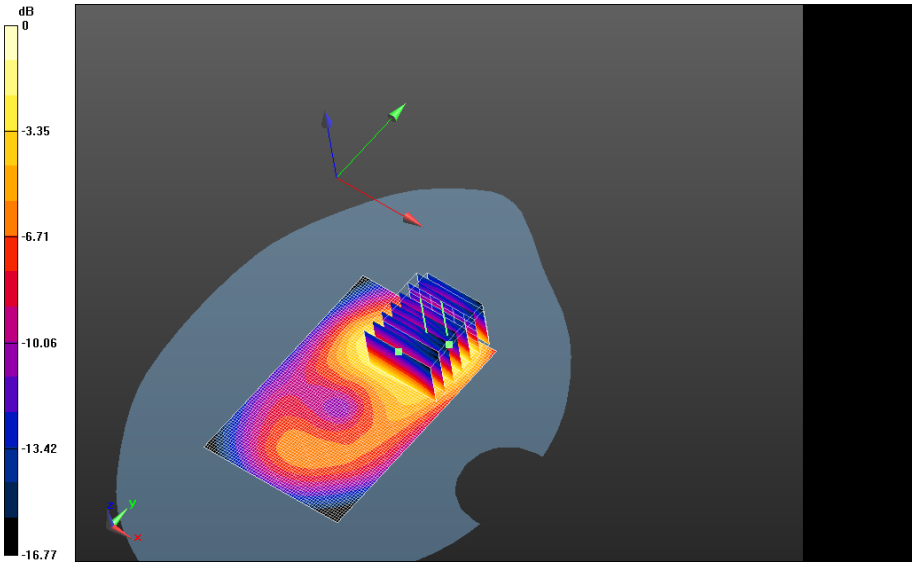
Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.754 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.239 V/m; **Power Drift = 0.295 dB**

Averaged SAR: SAR(1g) = 0.698 W/kg; SAR(10g) = 0.423 W/kg
Maximum value of SAR (interpolated) = 1.16 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan 2 (31x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.239 V/m; **Power Drift = 0.510 dB**

Averaged SAR: SAR(1g) = 0.758 W/kg; SAR(10g) = 0.446 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



0 dB = 0.798 W/kg = -0.98 dBW/kg

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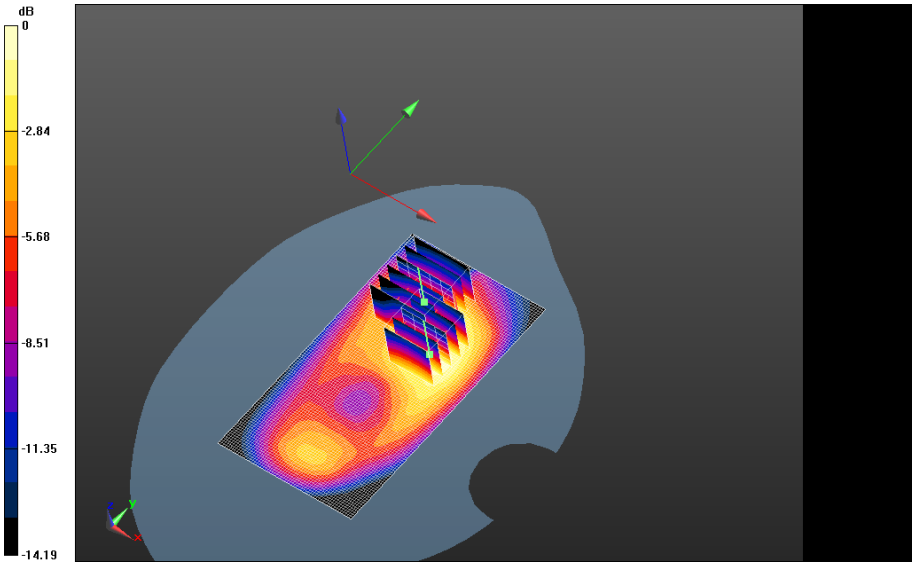
Mobile Hot Spot MSL - LTE Band 25/10mm Device Front - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.735 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Front - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.980 V/m; **Power Drift = -0.043 dB**

Averaged SAR: SAR(1g) = 0.605 W/kg; SAR(10g) = 0.364 W/kg
Maximum value of SAR (interpolated) = 1.01 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Front - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan 2 (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.980 V/m; **Power Drift = -0.105 dB**

Averaged SAR: SAR(1g) = 0.597 W/kg; SAR(10g) = 0.359 W/kg
Maximum value of SAR (interpolated) = 0.983 W/kg



0 dB = 0.907 W/kg = -0.42 dBW/kg

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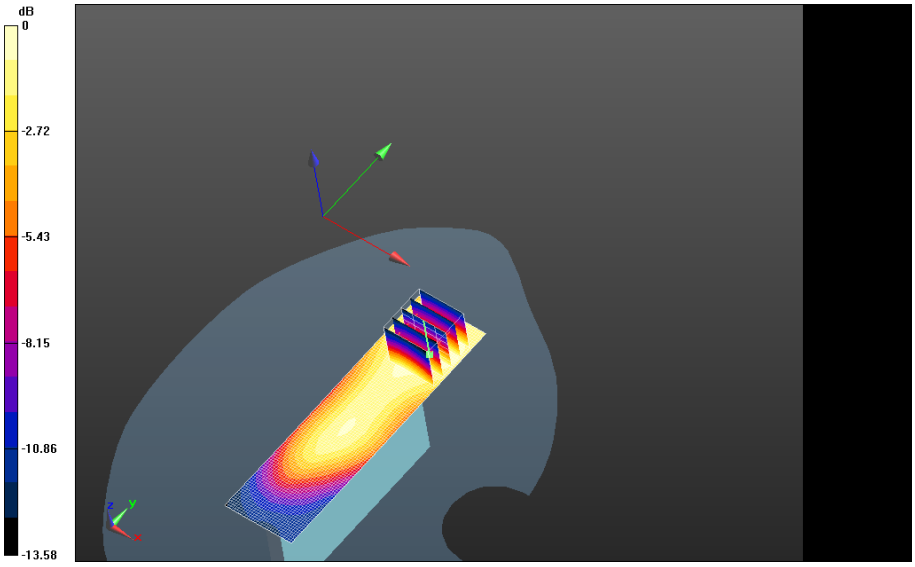
Mobile Hot Spot MSL - LTE Band 25/10mm Device Left - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (31x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.136 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Left - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.753 V/m; **Power Drift = 0.062 dB**

Averaged SAR: SAR(1g) = 0.121 W/kg; SAR(10g) = 0.0755 W/kg
Maximum value of SAR (interpolated) = 0.186 W/kg



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

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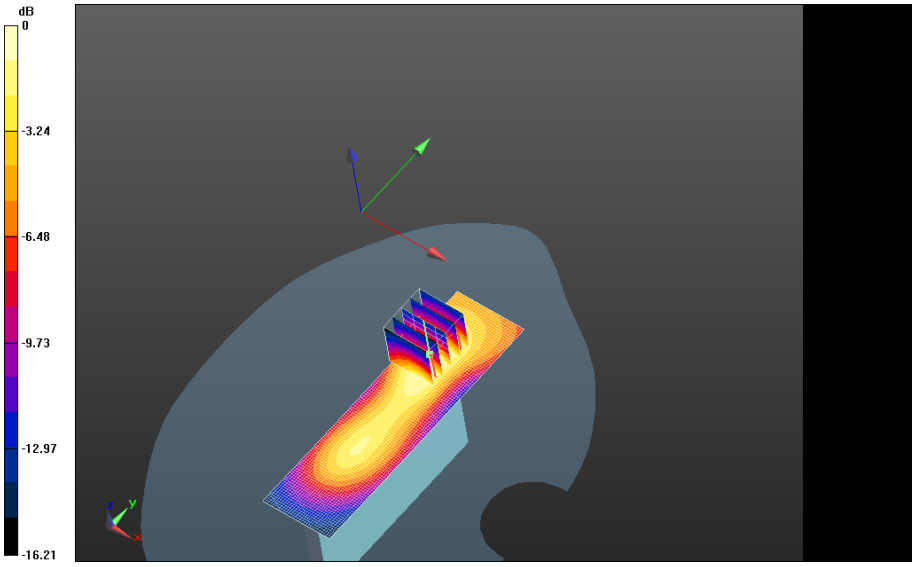
Mobile Hot Spot MSL - LTE Band 25/10mm Device Right - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (31x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.318 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Right - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.636 V/m; **Power Drift = -0.027 dB**

Averaged SAR: SAR(1g) = 0.258 W/kg; SAR(10g) = 0.143 W/kg
Maximum value of SAR (interpolated) = 0.456 W/kg



0 dB = 0.141 W/kg = -8.51 dBW/kg

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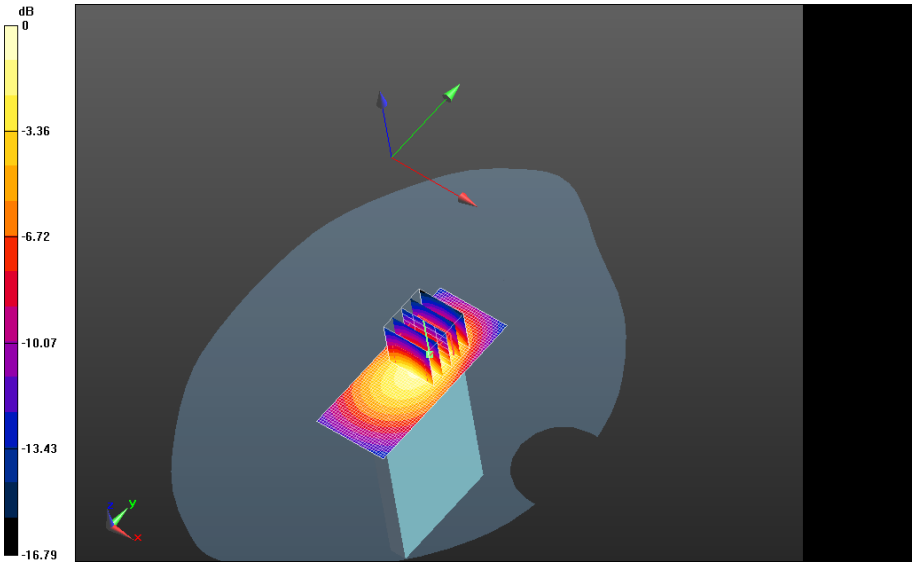
Mobile Hot Spot MSL - LTE Band 25/10mm Device Bottom - LTE_25_chan26140_RB1_Off0_amb_temp_23.3C_liq_temp_21.3C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Bottom - LTE_25_chan26140_RB1_Off0_amb_temp_23.3C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 24.938 V/m; **Power Drift = -0.021 dB**

Averaged SAR: SAR(1g) = 0.910 W/kg; SAR(10g) = 0.506 W/kg
Maximum value of SAR (interpolated) = 1.58 W/kg



0 dB = 0.312 W/kg = -5.06 dBW/kg

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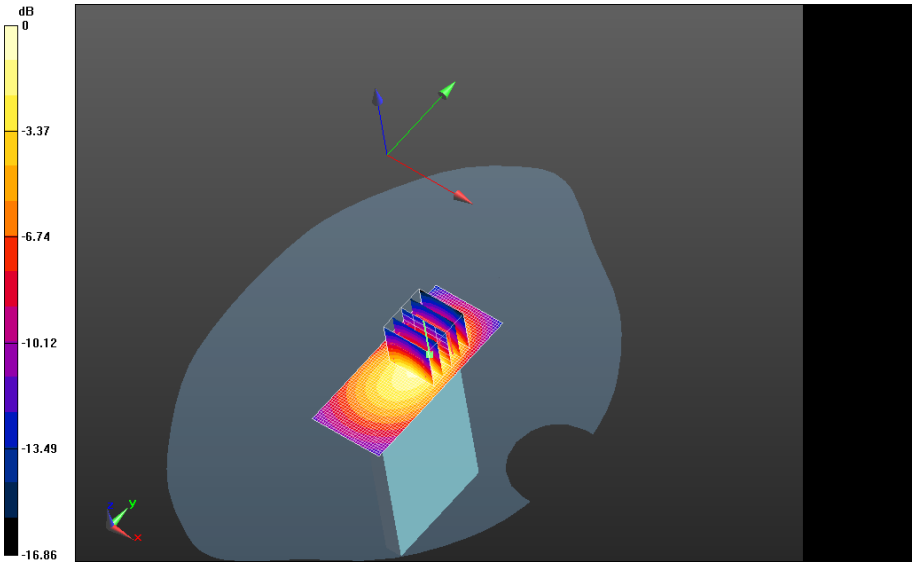
Mobile Hot Spot MSL - LTE Band 25/10mm Device Bottom - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.12 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Bottom - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 24.534 V/m; **Power Drift = -0.056 dB**

Averaged SAR: SAR(1g) = 0.908 W/kg; SAR(10g) = 0.500 W/kg
Maximum value of SAR (interpolated) = 1.57 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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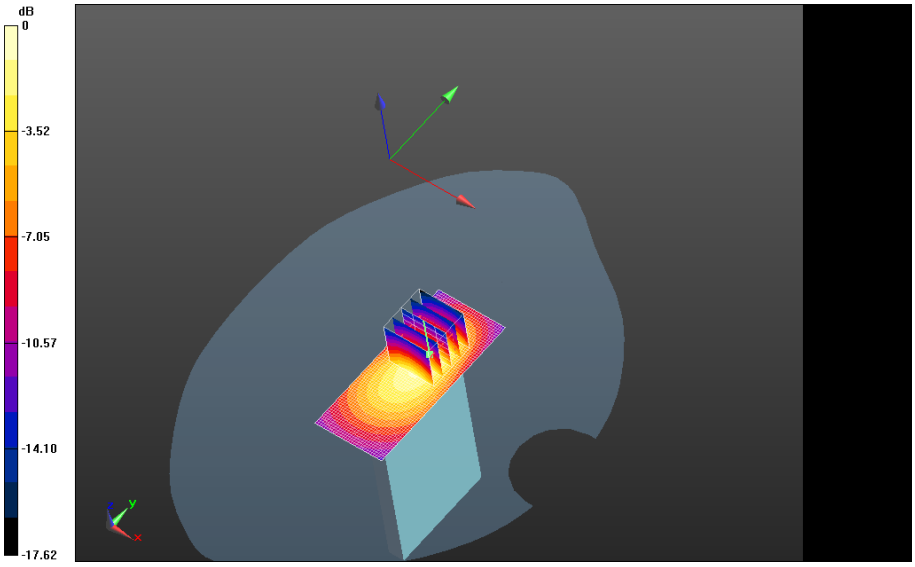
Mobile Hot Spot MSL - LTE Band 25/10mm Device Bottom - LTE_25_chan26590_RB1_Off99_amb_temp_23.3C_liq_temp_21.3C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.17 W/kg

Mobile Hot Spot MSL - LTE Band 25/10mm Device Bottom - LTE_25_chan26590_RB1_Off99_amb_temp_23.3C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 23.518 V/m; **Power Drift = -0.022 dB**

Averaged SAR: SAR(1g) = 0.899 W/kg; SAR(10g) = 0.486 W/kg
Maximum value of SAR (interpolated) = 1.59 W/kg



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

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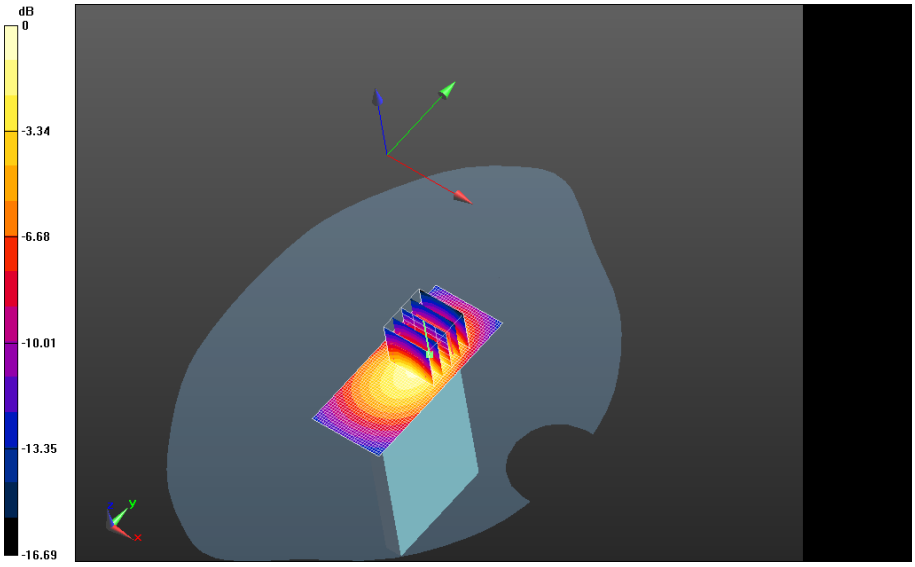
Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26140_RB1_Off0_amb_temp_23.3C_liq_temp_21.3C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.12 W/kg

Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26140_RB1_Off0_amb_temp_23.3C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 24.690 V/m; **Power Drift = -0.039 dB**

Averaged SAR: SAR(1g) = 0.917 W/kg; SAR(10g) = 0.511 W/kg
Maximum value of SAR (interpolated) = 1.55 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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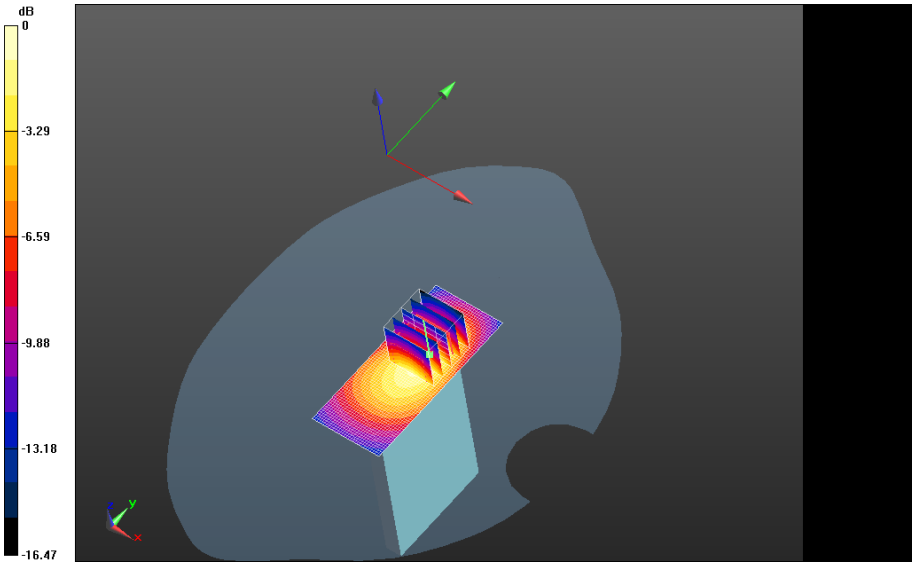
Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26140_RB1_Off0_amb_temp_23.2C_liq_temp_21.3C_2100mA_Battery/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.13 W/kg

Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26140_RB1_Off0_amb_temp_23.2C_liq_temp_21.3C_2100mA_Battery/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 24.474 V/m; **Power Drift = -0.162 dB**

Averaged SAR: SAR(1g) = 0.904 W/kg; SAR(10g) = 0.501 W/kg
Maximum value of SAR (interpolated) = 1.55 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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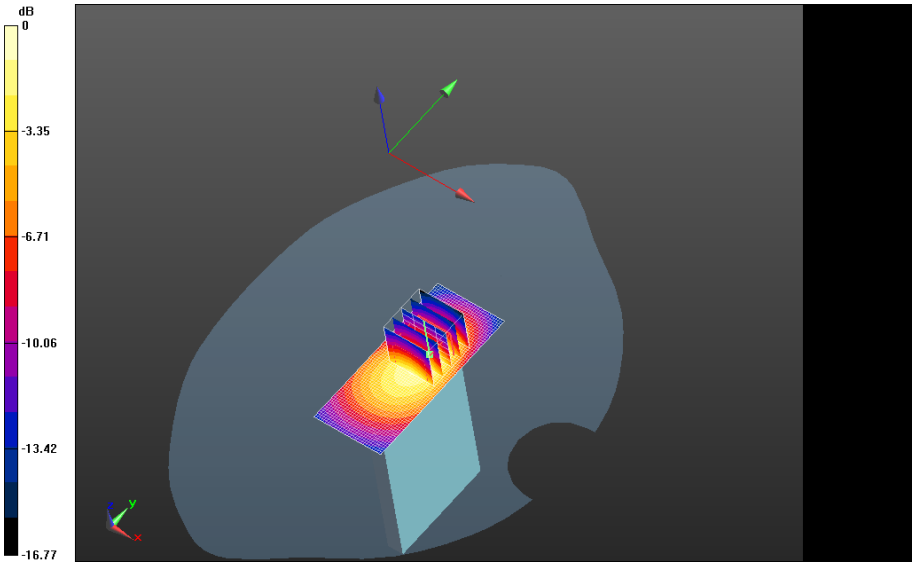
Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26140_RB1_Off0_amb_temp_23.2C_liq_temp_21.3C_2nd_Scan/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.19 W/kg

Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26140_RB1_Off0_amb_temp_23.2C_liq_temp_21.3C_2nd_Scan/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.415 V/m; **Power Drift = 0.00174 dB**

Averaged SAR: SAR(1g) = 0.956 W/kg; SAR(10g) = 0.530 W/kg
Maximum value of SAR (interpolated) = 1.63 W/kg



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

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SVLTE Band 25 Lower Power

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Date: 4/12/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB46A

Configuration: Mobile Hot Spot MSL - SVLTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1905 MHz
Medium Parameters used: f=1905 MHz; σ = 1.568 S/m; ε_r = 50.884; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Back - LTE_25_chan26590_RB1_Off99_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.336 W/kg

Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Back - LTE_25_chan26590_RB1_Off99_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 4.551 V/m; **Power Drift = 0.168 dB**

Averaged SAR: SAR(1g) = 0.269 W/kg; SAR(10g) = 0.155 W/kg
Maximum value of SAR (interpolated) = 0.454 W/kg

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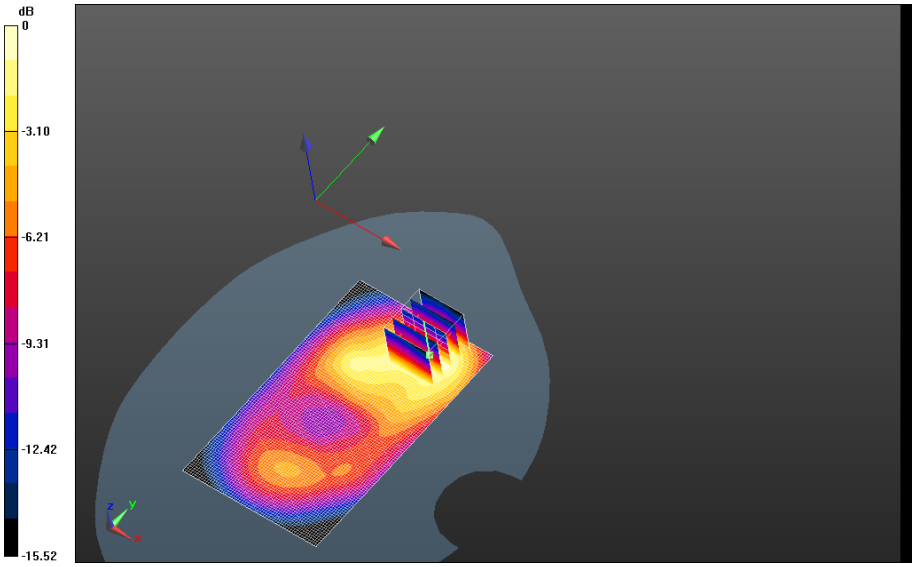

0 dB = 0.328 W/kg = -4.84 dBW/kg

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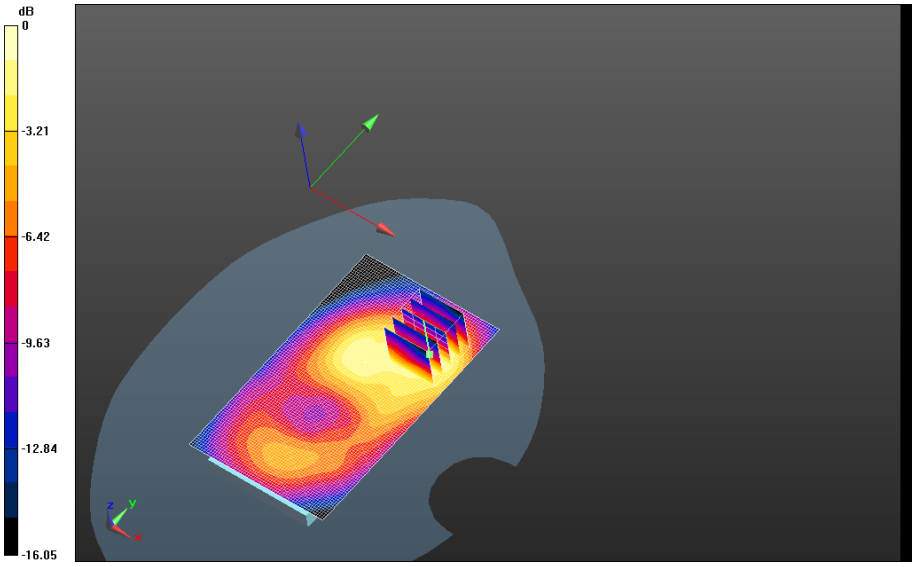
Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Back - LTE_25_chan26590_RB50_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.378 W/kg

Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Back - LTE_25_chan26590_RB50_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.806 V/m; **Power Drift = -0.104 dB**

Averaged SAR: SAR(1g) = 0.277 W/kg; SAR(10g) = 0.165 W/kg
Maximum value of SAR (interpolated) = 0.483 W/kg



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

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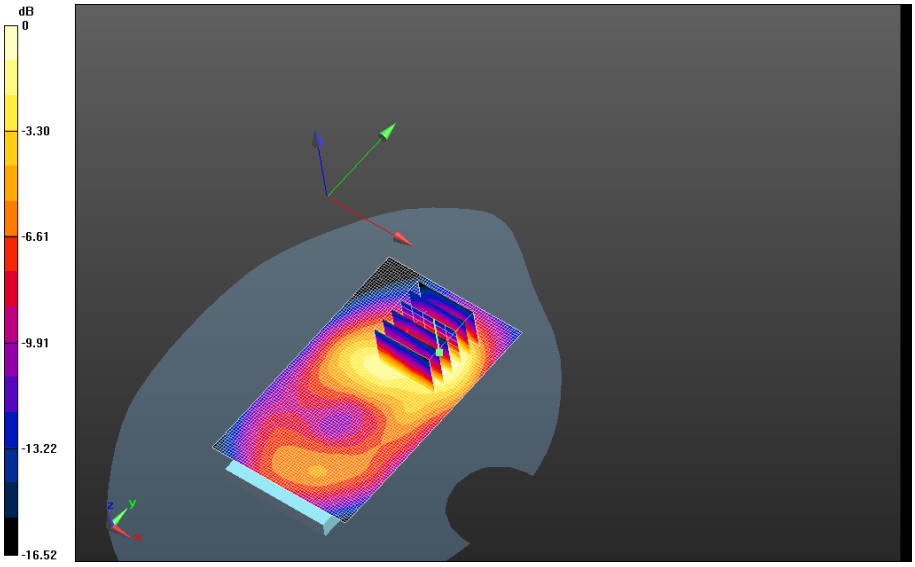
Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.396 W/kg

Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 15.677 V/m; **Power Drift = 0.098 dB**

Averaged SAR: SAR(1g) = 0.308 W/kg; SAR(10g) = 0.175 W/kg
Maximum value of SAR (interpolated) = 0.496 W/kg



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

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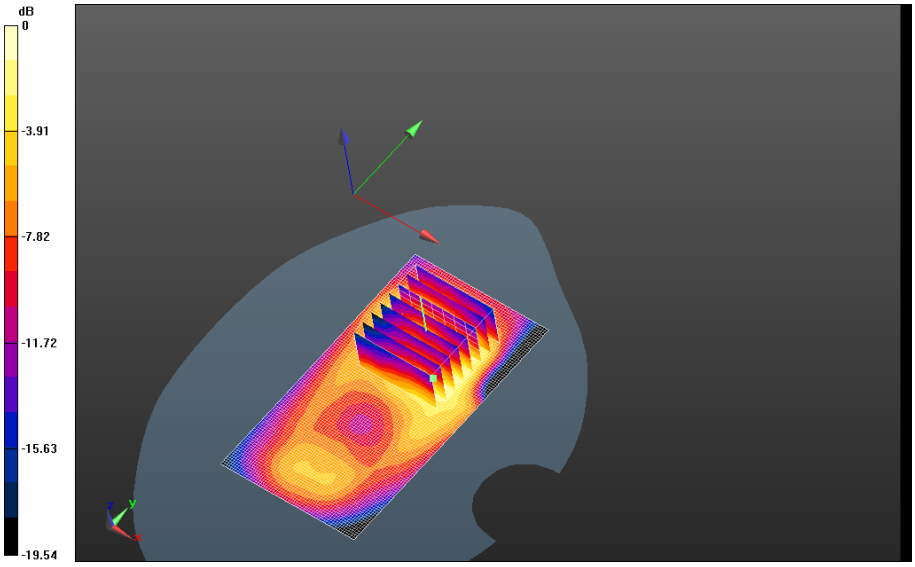
Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Front - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.234 W/kg

Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Front - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (36x36x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.569 V/m; **Power Drift = 0.102 dB**

Averaged SAR: SAR(1g) = 0.210 W/kg; SAR(10g) = 0.123 W/kg
Maximum value of SAR (interpolated) = 0.351 W/kg



0 dB = 0.379 W/kg = -4.21 dBW/kg

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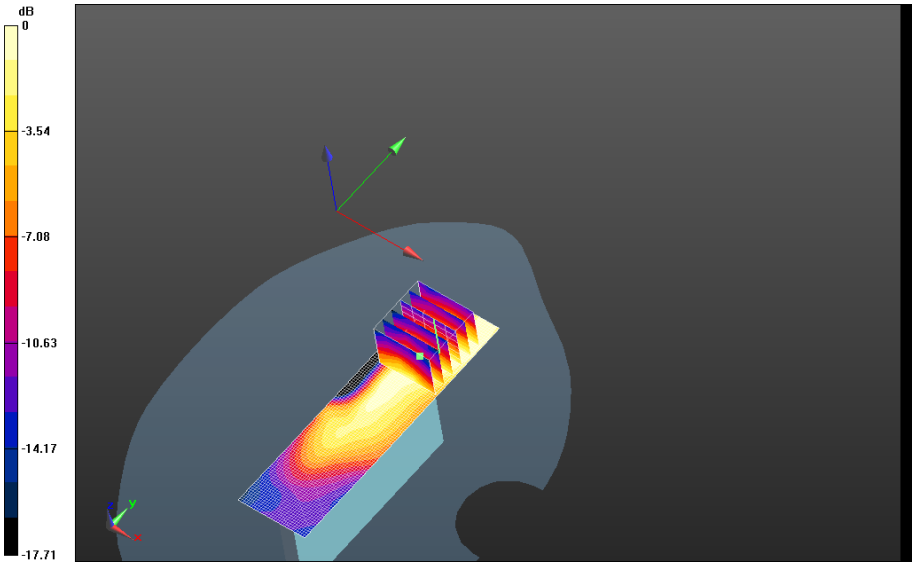
Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Left - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Area Scan (31x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0924 W/kg

Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Left - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.637 V/m; **Power Drift = -0.065 dB**

Averaged SAR: SAR(1g) = 0.0443 W/kg; SAR(10g) = 0.0260 W/kg
Maximum value of SAR (interpolated) = 0.0768 W/kg



0 dB = 0.265 W/kg = -5.77 dBW/kg

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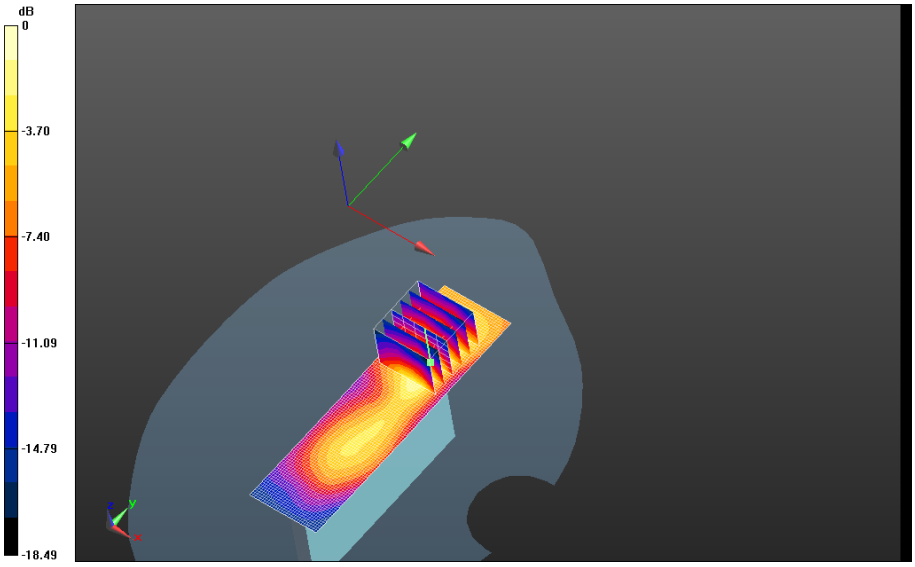
Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Right - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Area Scan (31x111x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.102 W/kg

Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Right - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.749 V/m; **Power Drift = -0.011 dB**

Averaged SAR: SAR(1g) = 0.0752 W/kg; SAR(10g) = 0.0414 W/kg
Maximum value of SAR (interpolated) = 0.141 W/kg



0 dB = 0.0546 W/kg = -12.63 dBW/kg

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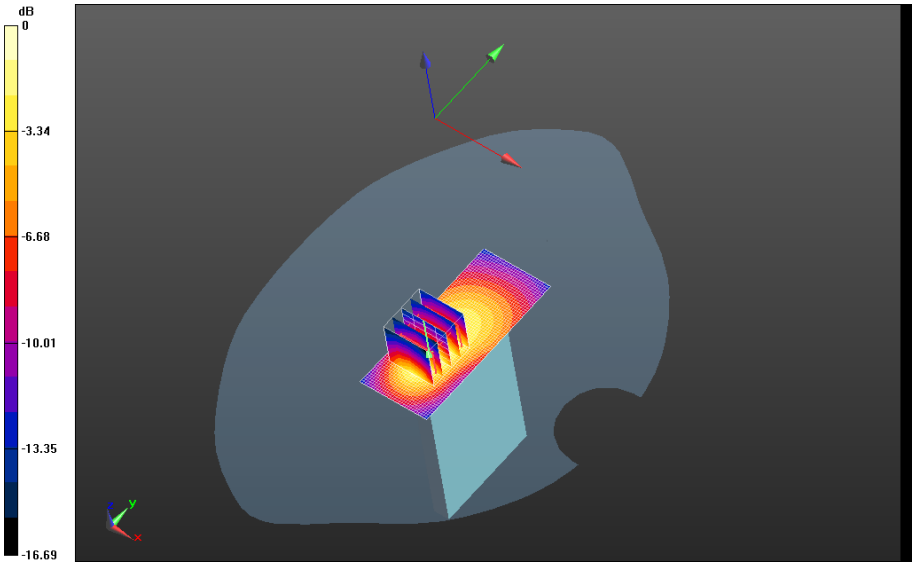
Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Bottom - LTE_25_chan26590_RB100_Off0_amb_temp_23.3C_liq_temp_21.3C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.400 W/kg

Mobile Hot Spot MSL - SVLTE Band 25/10mm Device Bottom - LTE_25_chan26590_RB100_Off0_amb_temp_23.3C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.492 V/m; **Power Drift = 0.019 dB**

Averaged SAR: SAR(1g) = 0.301 W/kg; SAR(10g) = 0.166 W/kg
Maximum value of SAR (interpolated) = 0.522 W/kg



0 dB = 0.0976 W/kg = -10.11 dBW/kg

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Date/Time: 5/14/2013 2:56:55 AM

Test Laboratory: RIM Testing Services

10mm_Back+HS_MHS_High_SVLTE_Band_25

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 333CB46A

Communication System: LTE band 25; Frequency: 1905 MHz
Medium parameters used: f = 1905 MHz; σ = 1.543 S/m; ε_r = 50.972; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Mobile Hot Spot MSL - SVLTE Band 25 Back+HS and 2100mA/Headset 10mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.3C_liq_temp_21.3C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.330 W/kg

Mobile Hot Spot MSL - SVLTE Band 25 Back+HS and 2100mA/Headset 10mm Device Back - LTE_25_chan26590_RB100_Off0_amb_temp_23.3C_liq_temp_21.3C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.733 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.526 W/kg
SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.160 W/kg
Maximum value of SAR (measured) = 0.364 W/kg

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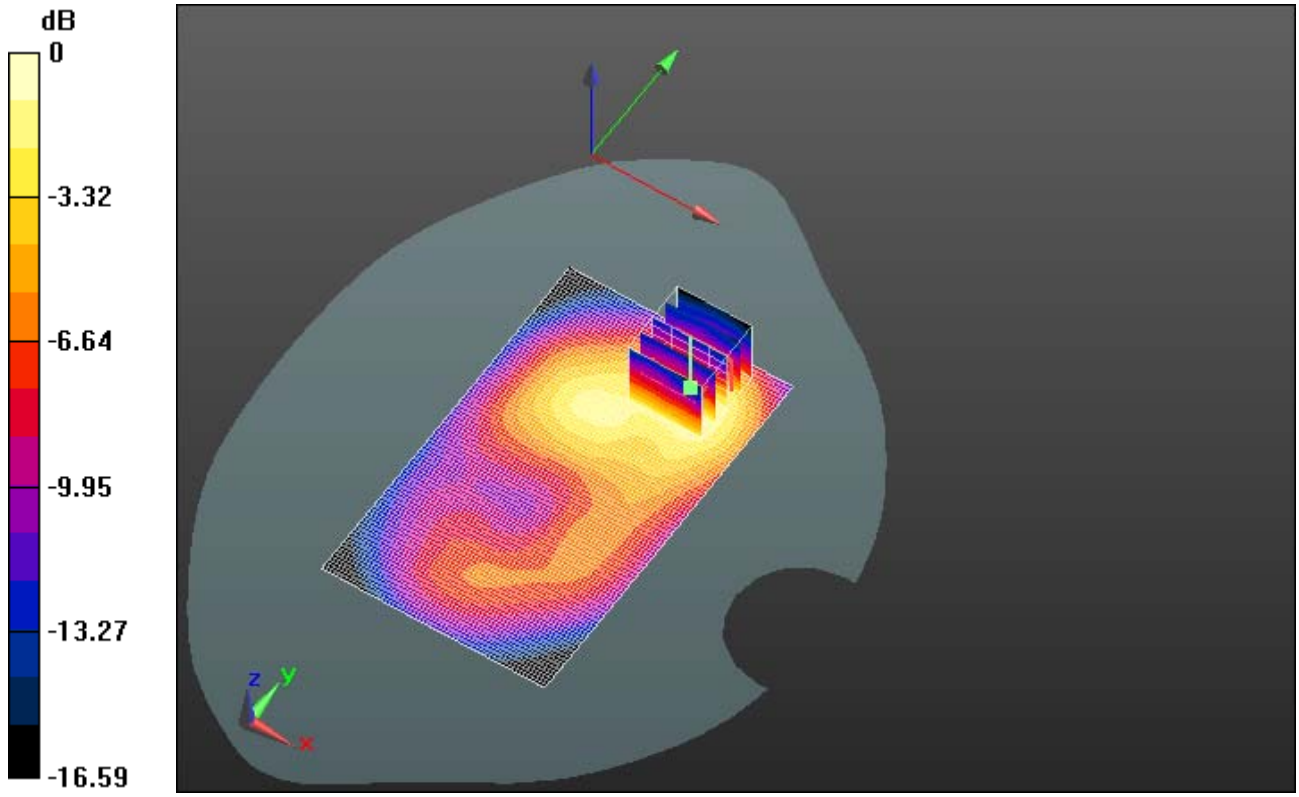

0 dB = 0.364 W/kg = -4.39 dBW/kg

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Date/Time: 5/14/2013 3:13:09 AM

Test Laboratory: RIM Testing Services

10mm_Device_Back_2100mA_MHS_High_SVLTE_Band_25

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 333CB46A

Communication System: LTE band 25; Frequency: 1905 MHz
Medium parameters used: f = 1905 MHz; σ = 1.543 S/m; ε_r = 50.972; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Mobile Hot Spot MSL - SVLTE Band 25 Back+HS and 2100mA/10mm Device Back+2100mA - LTE_25_chan26590_RB100_Off0_amb_temp_23.3C_liq_temp_21.3C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.312 W/kg

Mobile Hot Spot MSL - SVLTE Band 25 Back+HS and 2100mA/10mm Device Back+2100mA - LTE_25_chan26590_RB100_Off0_amb_temp_23.3C_liq_temp_21.3C/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.891 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.427 W/kg

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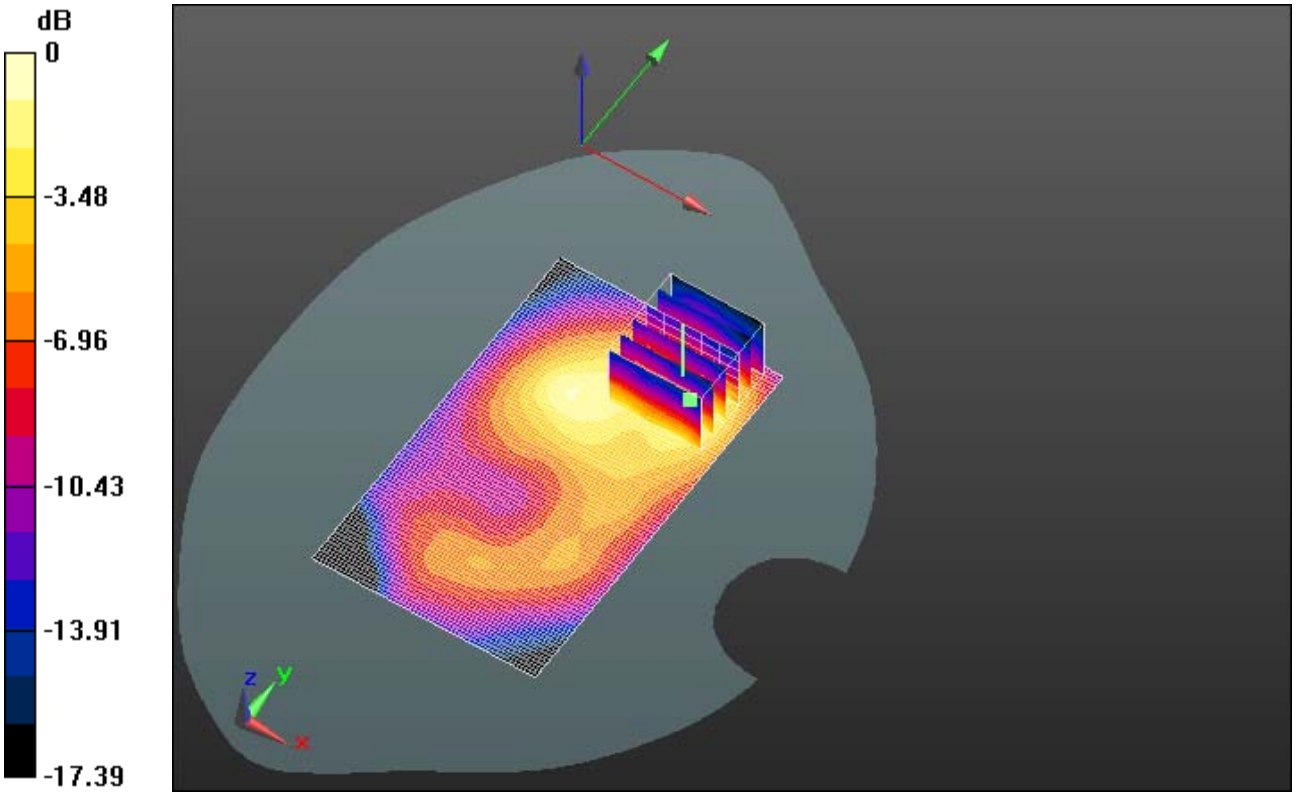
SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.159 W/kg

Maximum value of SAR (measured) = 0.349 W/kg



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

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LTE Band 25 MHS On Lower Power

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Date: 5/14/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB46A

Configuration: Mobile Hot Spot MSL - LTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1882.5 MHz
Medium Parameters used: f=1882.5 MHz; σ = 1.519 S/m; ε_r = 51.020; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.310 W/kg

Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26365_RB1_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.456 V/m; **Power Drift = 0.096 dB**

Averaged SAR: SAR(1g) = 0.257 W/kg; SAR(10g) = 0.141 W/kg
Maximum value of SAR (interpolated) = 0.446 W/kg

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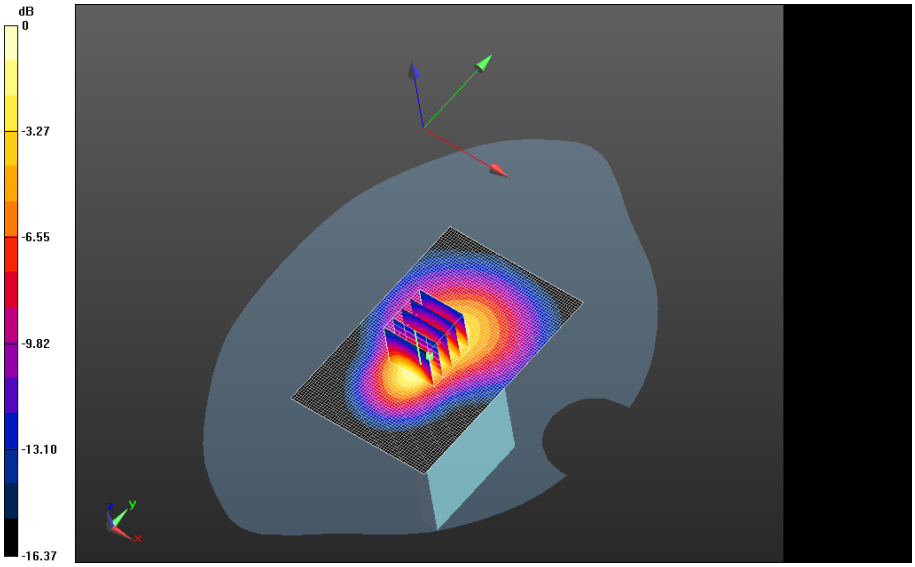

0 dB = 0.319 W/kg = -4.96 dBW/kg

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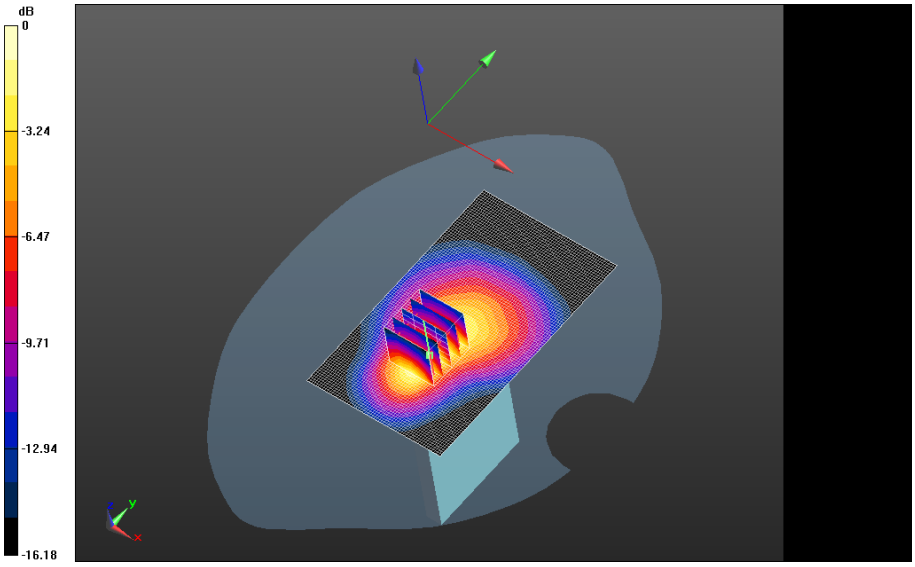
Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26590_RB50_Off50_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.343 W/kg

Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26590_RB50_Off50_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 14.896 V/m; **Power Drift = 0.00947 dB**

Averaged SAR: SAR(1g) = 0.267 W/kg; SAR(10g) = 0.145 W/kg
Maximum value of SAR (interpolated) = 0.482 W/kg



0 dB = 0.319 W/kg = -4.96 dBW/kg

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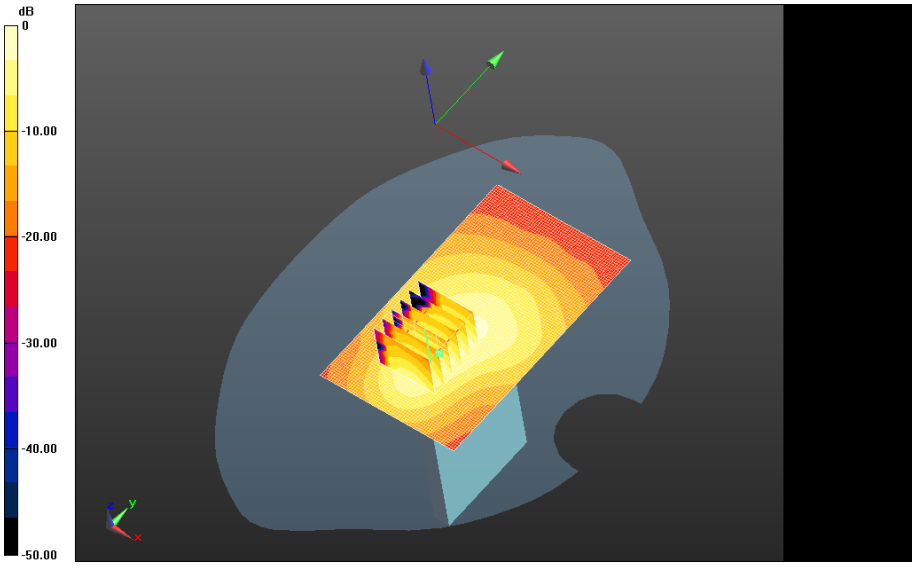
Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.347 W/kg

Mobile Hot Spot MSL - LTE Band 25/Headset 10mm Device Bottom - LTE_25_chan26590_RB100_Off0_amb_temp_23.6C_liq_temp_21.3C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 15.508 V/m; **Power Drift = -0.060 dB**

Averaged SAR: SAR(1g) = 0.280 W/kg; SAR(10g) = 0.162 W/kg
Maximum value of SAR (interpolated) = 0.506 W/kg



0 dB = 0.326 W/kg = -4.87 dBW/kg

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GPRS 850

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Date: 4/17/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GPRS 850; Communication System Band: GPRS 850; Frequency: 836.8 MHz
Medium Parameters used: f=836.8 MHz; σ = 0.960 S/m; ε_r = 53.014; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_chan190_amb_temp_23.0C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.812 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_chan190_amb_temp_23.0C_liq_temp_20.9C/Zoom Scan (26x31x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.535 V/m; **Power Drift = 0.037 dB**

Averaged SAR: SAR(1g) = 0.677 W/kg; SAR(10g) = 0.457 W/kg
Maximum value of SAR (interpolated) = 1.04 W/kg

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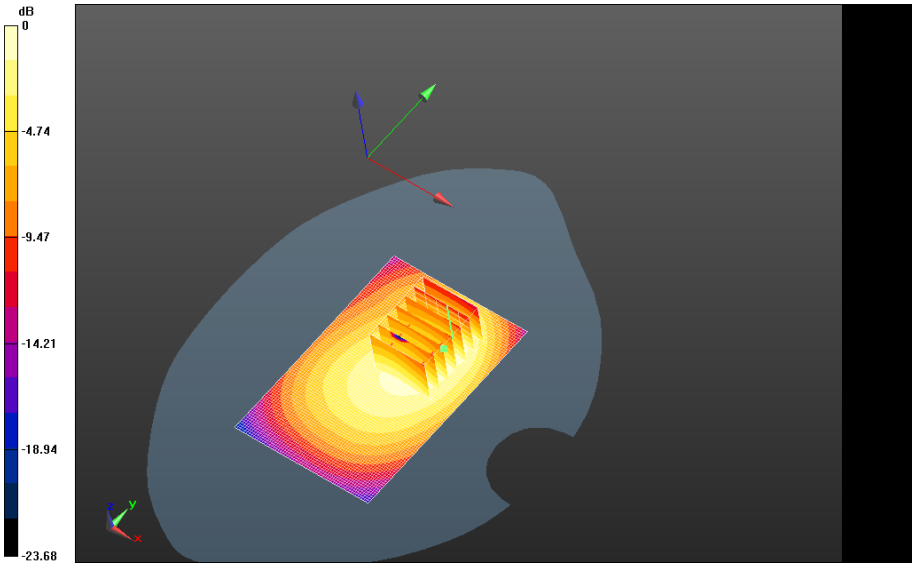

0 dB = 0.806 W/kg = -0.94 dBW/kg

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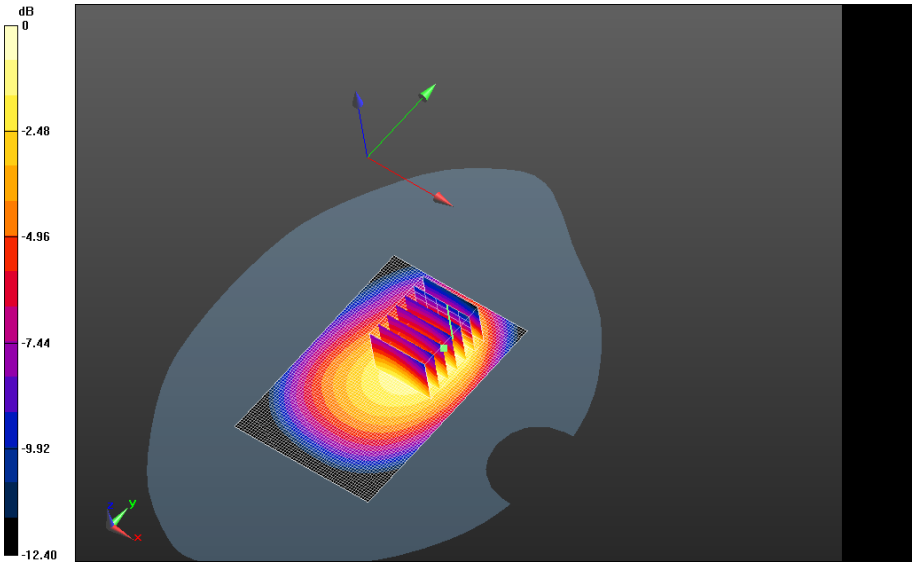
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slot_chan128_amb_temp_23.0C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.16 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slot_chan128_amb_temp_23.0C_liq_temp_20.9C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 30.901 V/m; **Power Drift = -0.021 dB**

Averaged SAR: SAR(1g) = 0.982 W/kg; SAR(10g) = 0.661 W/kg
Maximum value of SAR (interpolated) = 1.53 W/kg



0 dB = 0.806 W/kg = -0.94 dBW/kg

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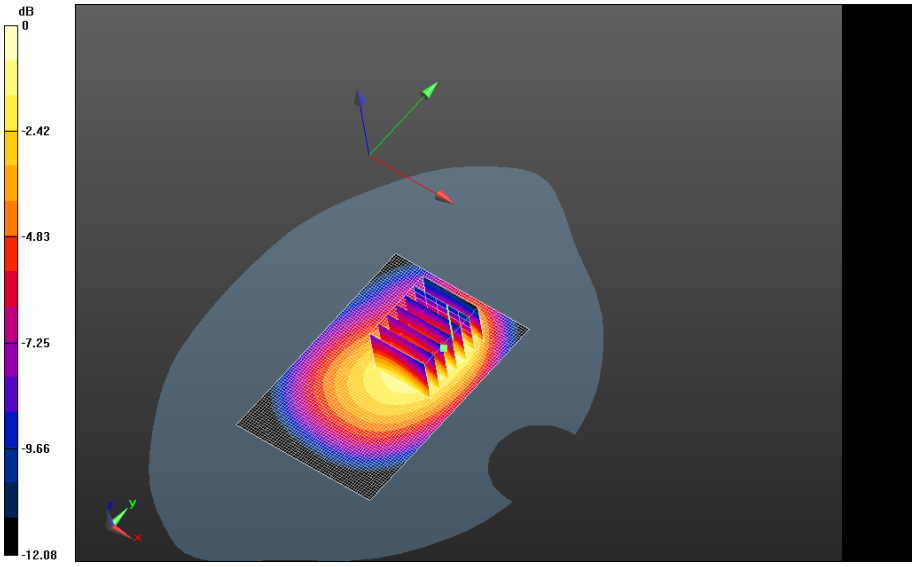
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slot_chan190_amb_temp_23.0C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slot_chan190_amb_temp_23.0C_liq_temp_20.9C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 29.529 V/m; **Power Drift = -0.085 dB**

Averaged SAR: SAR(1g) = 0.892 W/kg; SAR(10g) = 0.600 W/kg
Maximum value of SAR (interpolated) = 1.37 W/kg



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

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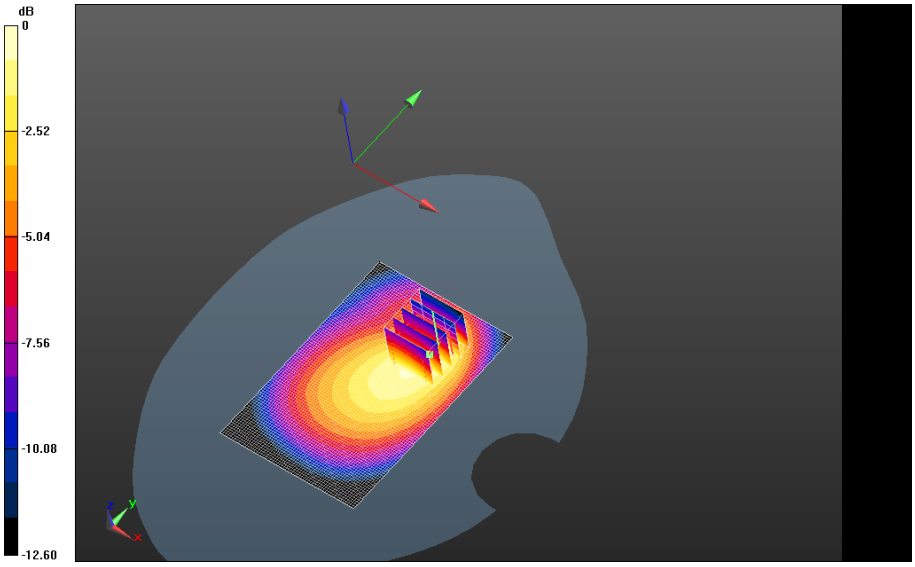
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slot_chan251_amb_temp_23.0C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.862 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_3-slot_chan251_amb_temp_23.0C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.874 V/m; **Power Drift = 0.053 dB**

Averaged SAR: SAR(1g) = 0.732 W/kg; SAR(10g) = 0.477 W/kg
Maximum value of SAR (interpolated) = 1.14 W/kg



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

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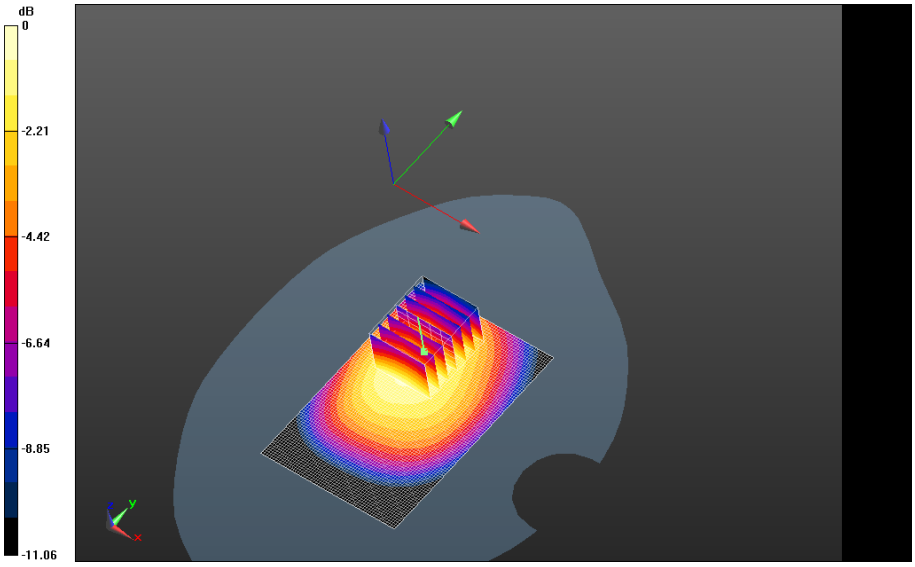
Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.917 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.0C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 28.975 V/m; **Power Drift = 0.024 dB**

Averaged SAR: SAR(1g) = 0.888 W/kg; SAR(10g) = 0.642 W/kg
Maximum value of SAR (interpolated) = 1.16 W/kg



0 dB = 0.883 W/kg = -0.54 dBW/kg

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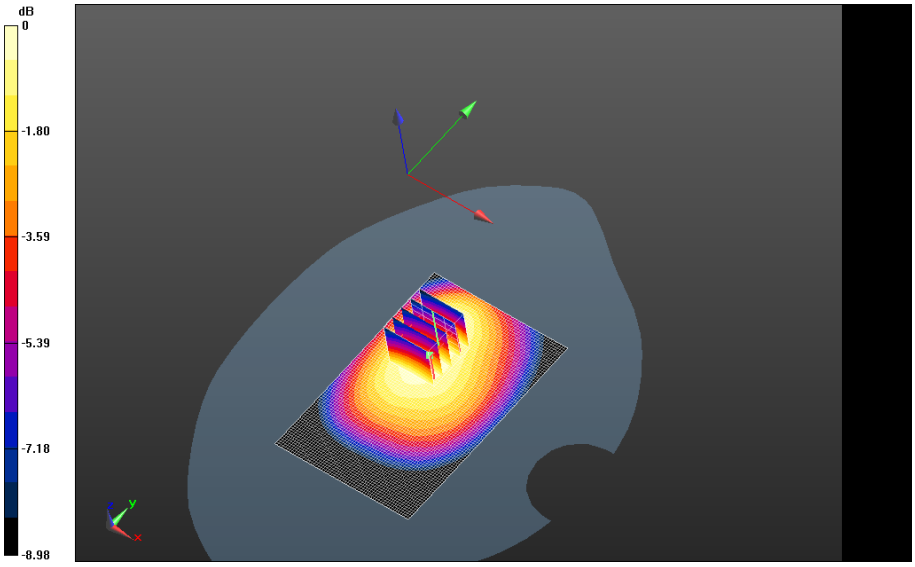
Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS850_3-slot_chan190_amb_temp_23.0C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.909 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS850_3-slot_chan190_amb_temp_23.0C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 26.915 V/m; **Power Drift = 0.365 dB**

Averaged SAR: SAR(1g) = 0.815 W/kg; SAR(10g) = 0.605 W/kg
Maximum value of SAR (interpolated) = 1.06 W/kg



0 dB = 0.987 W/kg = -0.06 dBW/kg

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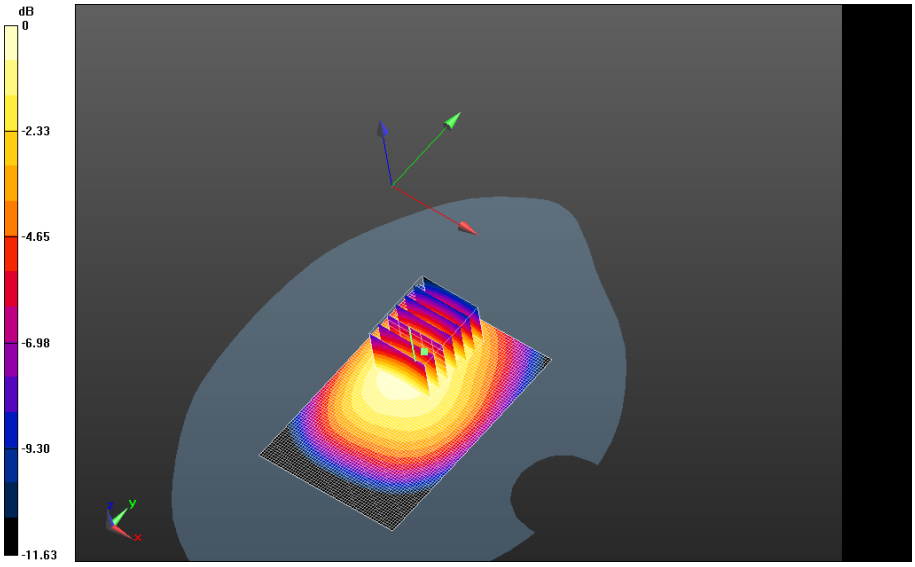
Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS850_3-slot_chan251_amb_temp_23.7C_liq_temp_21.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.639 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS850_3-slot_chan251_amb_temp_23.7C_liq_temp_21.0C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 23.663 V/m; **Power Drift = -0.122 dB**

Averaged SAR: SAR(1g) = 0.567 W/kg; SAR(10g) = 0.419 W/kg
Maximum value of SAR (interpolated) = 0.742 W/kg



0 dB = 0.905 W/kg = -0.43 dBW/kg

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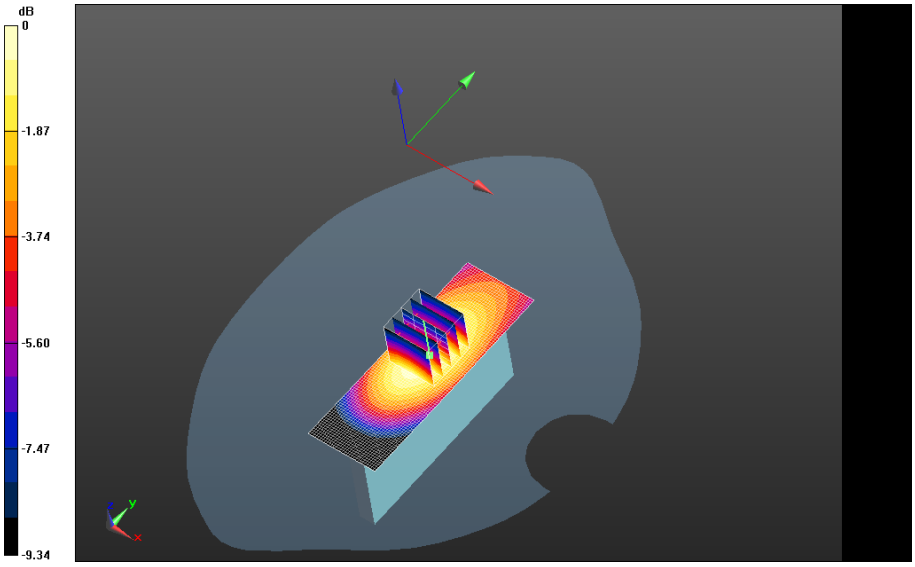
Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS850_3-slot_chan190_amb_temp_23.2C_liq_temp_21.0C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.265 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS850_3-slot_chan190_amb_temp_23.2C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 17.350 V/m; **Power Drift = -0.161 dB**

Averaged SAR: SAR(1g) = 0.230 W/kg; SAR(10g) = 0.158 W/kg
Maximum value of SAR (interpolated) = 0.320 W/kg



0 dB = 0.633 W/kg = -1.99 dBW/kg

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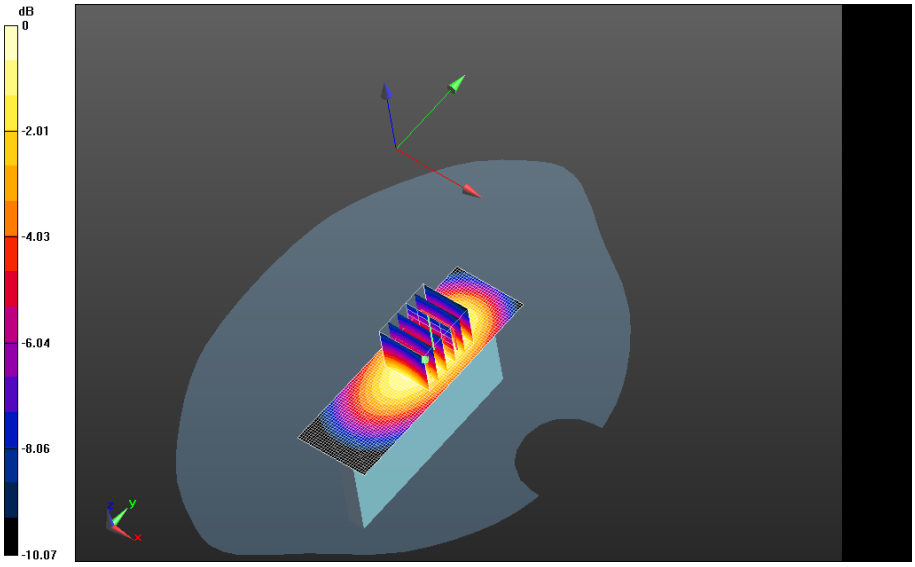
Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.0C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.975 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.0C/Zoom Scan (21x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 32.819 V/m; **Power Drift = -0.074 dB**

Averaged SAR: SAR(1g) = 0.876 W/kg; SAR(10g) = 0.596 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



0 dB = 0.262 W/kg = -5.82 dBW/kg

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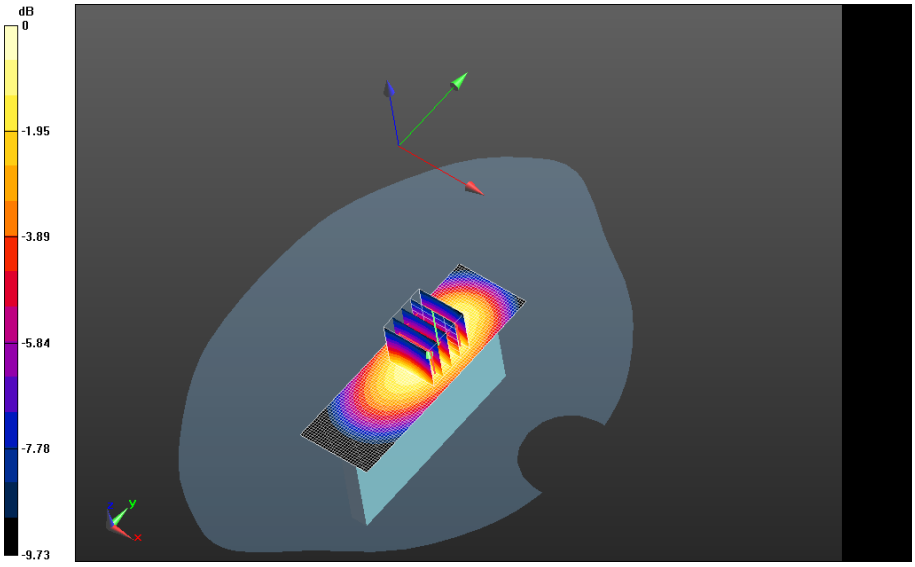
Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS850_3-slot_chan190_amb_temp_23.0C_liq_temp_20.9C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.915 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS850_3-slot_chan190_amb_temp_23.0C_liq_temp_20.9C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 31.771 V/m; **Power Drift = -0.138 dB**

Averaged SAR: SAR(1g) = 0.818 W/kg; SAR(10g) = 0.555 W/kg
Maximum value of SAR (interpolated) = 1.17 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

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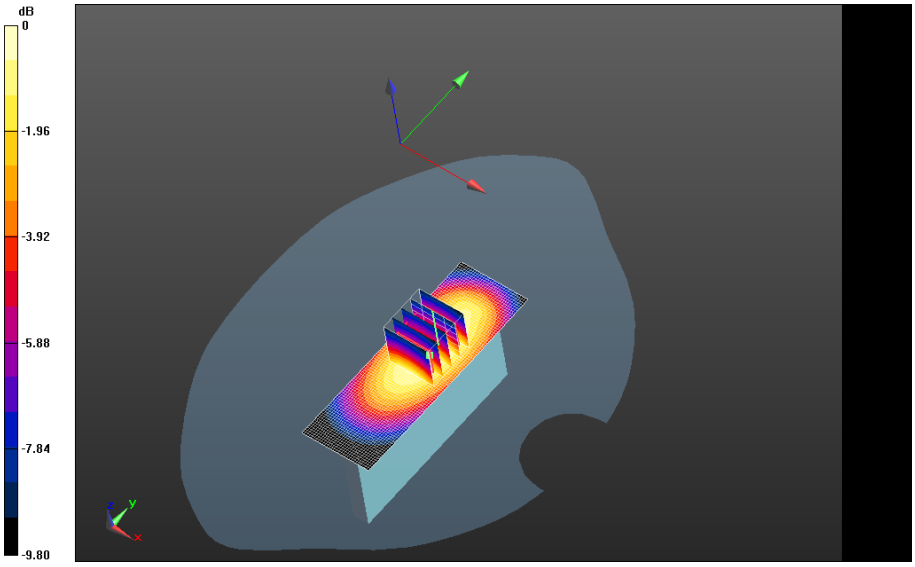
Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.0C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.670 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 27.325 V/m; **Power Drift = -0.086 dB**

Averaged SAR: SAR(1g) = 0.601 W/kg; SAR(10g) = 0.408 W/kg
Maximum value of SAR (interpolated) = 0.862 W/kg



0 dB = 0.944 W/kg = -0.25 dBW/kg

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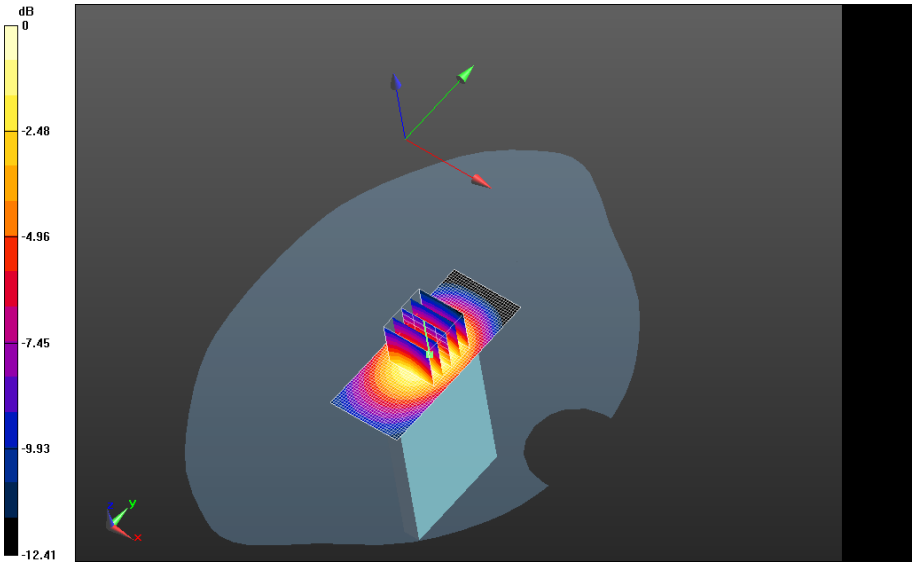
Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.0C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.488 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.156 V/m; **Power Drift = 0.128 dB**

Averaged SAR: SAR(1g) = 0.394 W/kg; SAR(10g) = 0.254 W/kg
Maximum value of SAR (interpolated) = 0.579 W/kg



0 dB = 0.687 W/kg = -1.63 dBW/kg

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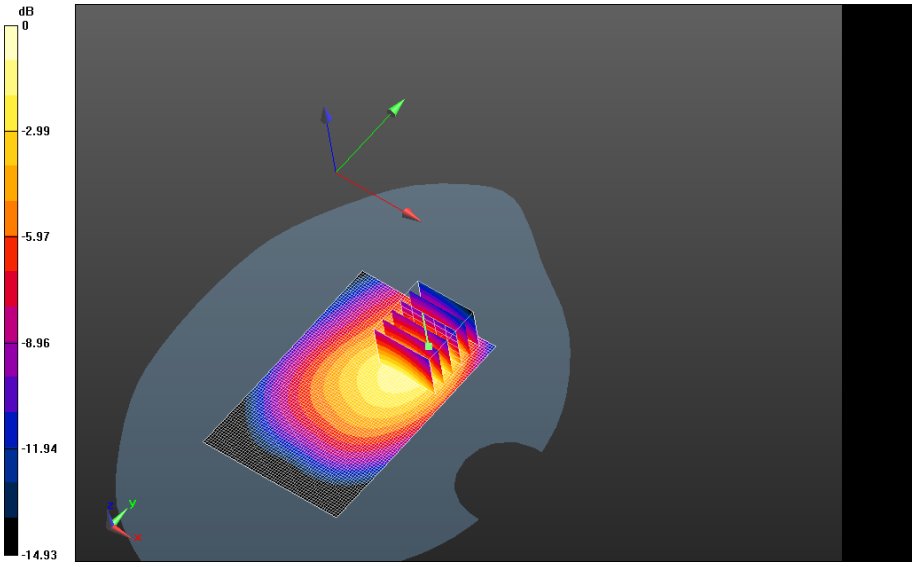
Mobile Hot Spot MSL - GPRS 850/Headset 10mm Device Back - GPRS850_3-slot_chan128_amb_temp_23.3C_liq_temp_21.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.19 W/kg

Mobile Hot Spot MSL - GPRS 850/Headset 10mm Device Back - GPRS850_3-slot_chan128_amb_temp_23.3C_liq_temp_21.0C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.710 V/m; **Power Drift = 0.077 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.662 W/kg
Maximum value of SAR (interpolated) = 1.61 W/kg



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

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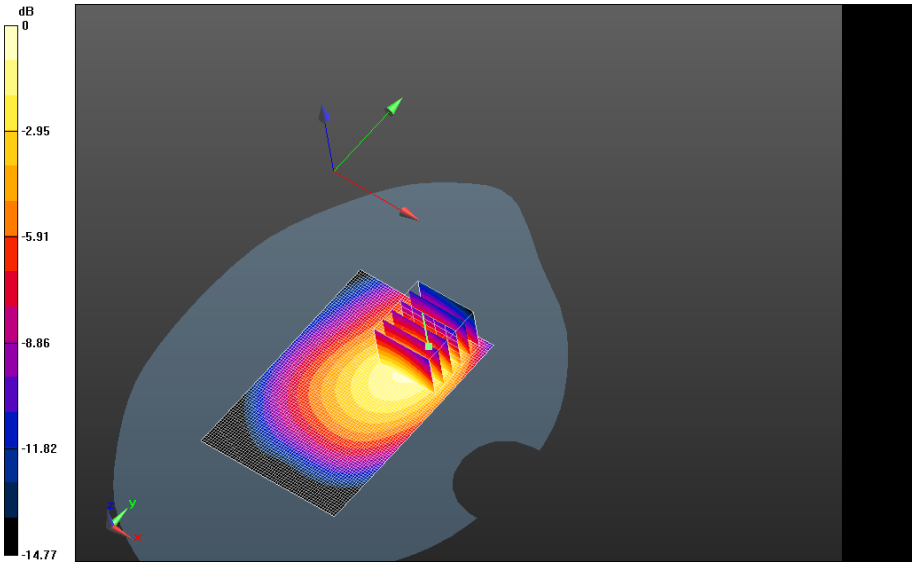
Mobile Hot Spot MSL - GPRS 850/Headset 10mm Device Back-2100mA - GPRS850_3-slot_chan128_amb_temp_23.3C_liq_temp_21.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.41 W/kg

Mobile Hot Spot MSL - GPRS 850/Headset 10mm Device Back-2100mA - GPRS850_3-slot_chan128_amb_temp_23.3C_liq_temp_21.0C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 28.215 V/m; **Power Drift = -0.107 dB**

Averaged SAR: SAR(1g) = 1.16 W/kg; SAR(10g) = 0.742 W/kg
Maximum value of SAR (interpolated) = 1.81 W/kg



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

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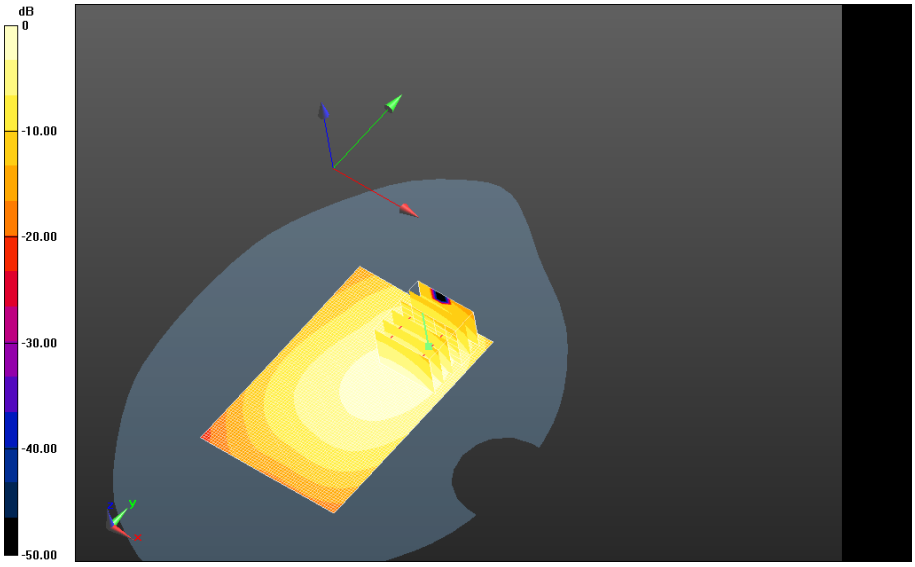
Mobile Hot Spot MSL - GPRS 850/Headset 10mm Device Back-2100mA - GPRS850_3-slot_chan128_amb_temp_23.3C_liq_temp_21.0C_2nd/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.30 W/kg

Mobile Hot Spot MSL - GPRS 850/Headset 10mm Device Back-2100mA - GPRS850_3-slot_chan128_amb_temp_23.3C_liq_temp_21.0C_2nd/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 28.909 V/m; **Power Drift = -0.111 dB**

Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.734 W/kg
Maximum value of SAR (interpolated) = 1.81 W/kg



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

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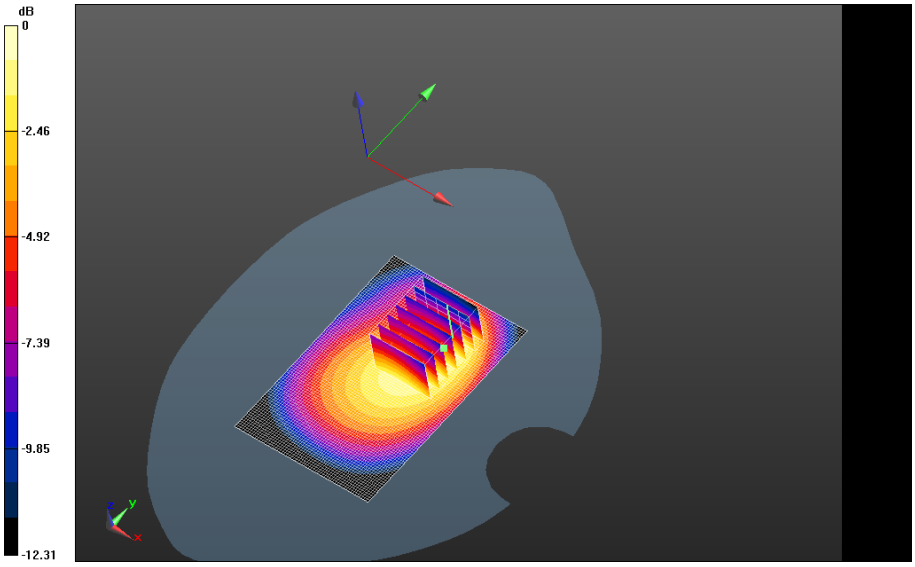
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_4-slot_chan190_amb_temp_23.0C_liq_temp_20.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.896 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850_4-slot_chan190_amb_temp_23.0C_liq_temp_20.9C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 26.919 V/m; **Power Drift = -0.015 dB**

Averaged SAR: SAR(1g) = 0.751 W/kg; SAR(10g) = 0.505 W/kg
Maximum value of SAR (interpolated) = 1.16 W/kg



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

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UMTS band V

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Date: 4/16/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - UMTS Band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 826.4 MHz
Medium Parameters used: f=826.4 MHz; σ = 0.949 S/m; ε_r = 53.114; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS_Band_V_chan4132_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.911 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS_Band_V_chan4132_amb_temp_23.0C_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 = 27.088 V/m; **Power Drift = 0.00394 dB**

Averaged SAR: SAR(1g) = 0.823 W/kg; SAR(10g) = 0.541 W/kg
Maximum value of SAR (interpolated) = 1.28 W/kg

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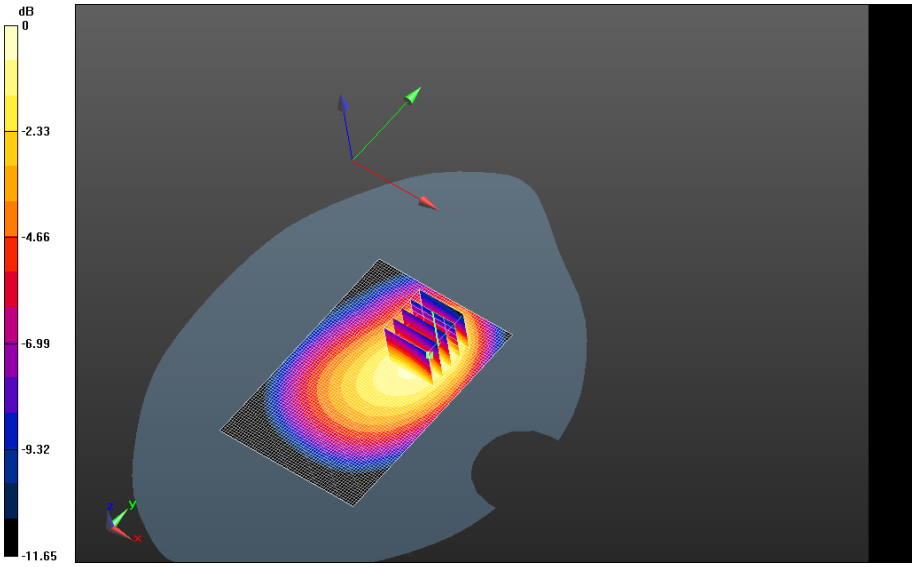

0 dB = 0.959 W/kg = -0.18 dBW/kg

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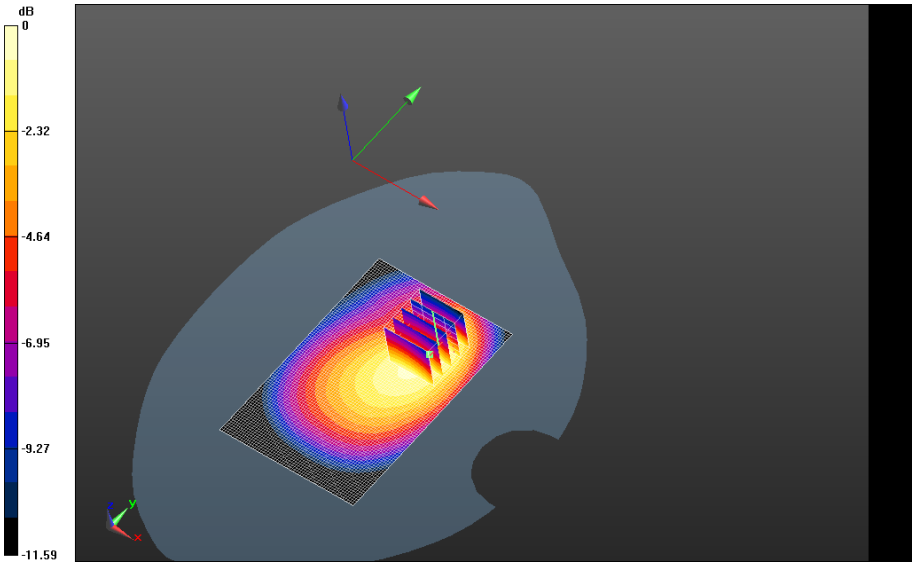
Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS_Band_V_chan4182_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.977 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS_Band_V_chan4182_amb_temp_23.0C_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 = 27.734 V/m; **Power Drift = -0.050 dB**

Averaged SAR: SAR(1g) = 0.863 W/kg; SAR(10g) = 0.572 W/kg
Maximum value of SAR (interpolated) = 1.31 W/kg



0 dB = 0.959 W/kg = -0.18 dBW/kg

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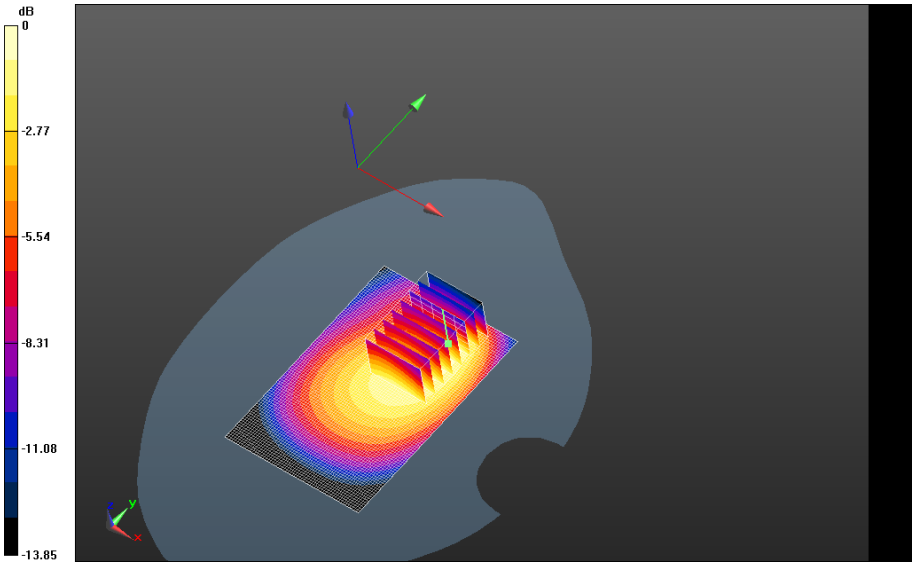
Mobile Hot Spot MSL - UMTS Band V/10mm Device Back 2100mA Battery - UMTS_Band_V_chan4182_amb_temp_22.9C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back 2100mA Battery - UMTS_Band_V_chan4182_amb_temp_22.9C_liq_temp_22.2C/Zoom Scan (26x36x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 27.889 V/m; **Power Drift = 0.00826 dB**

Averaged SAR: SAR(1g) = 0.867 W/kg; SAR(10g) = 0.588 W/kg
Maximum value of SAR (interpolated) = 1.32 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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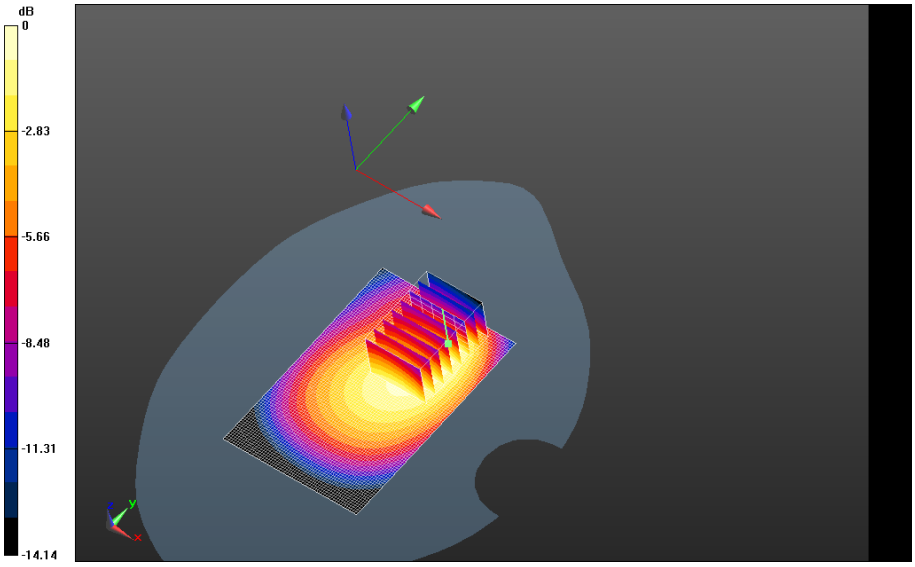
Mobile Hot Spot MSL - UMTS Band V/10mm Device Back 2100mA Battery - UMTS_Band_V_chan4182_amb_temp_23.1C_liq_temp_22.2C_2nd_Scan/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back 2100mA Battery - UMTS_Band_V_chan4182_amb_temp_23.1C_liq_temp_22.2C_2nd_Scan/Zoom Scan (26x36x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 27.754 V/m; **Power Drift = 0.074 dB**

Averaged SAR: SAR(1g) = 0.846 W/kg; SAR(10g) = 0.582 W/kg
Maximum value of SAR (interpolated) = 1.27 W/kg



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

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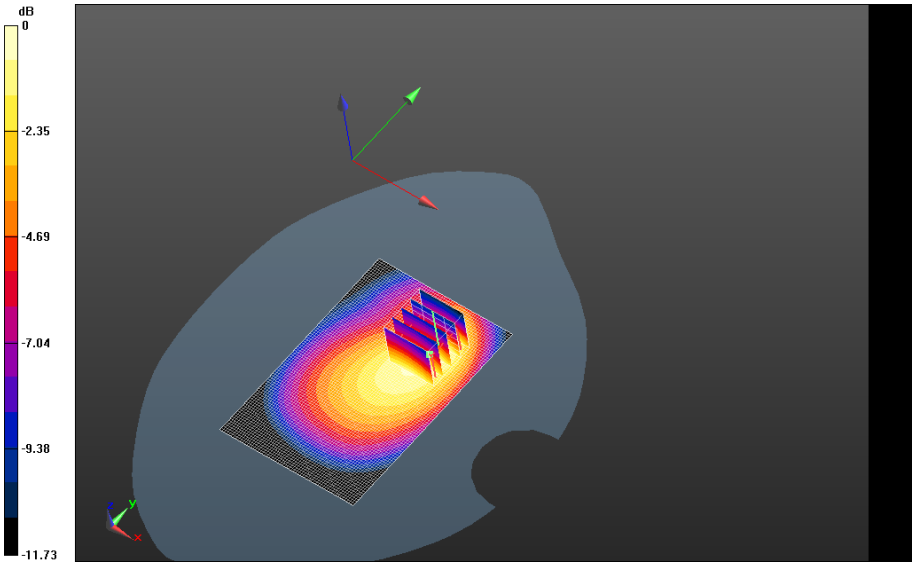
Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS_Band_V_chan4223_amb_temp_23.1C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.937 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS_Band_V_chan4223_amb_temp_23.1C_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 = 26.444 V/m; **Power Drift = -0.063 dB**

Averaged SAR: SAR(1g) = 0.831 W/kg; SAR(10g) = 0.535 W/kg
Maximum value of SAR (interpolated) = 1.28 W/kg



0 dB = 0.982 W/kg = -0.08 dBW/kg

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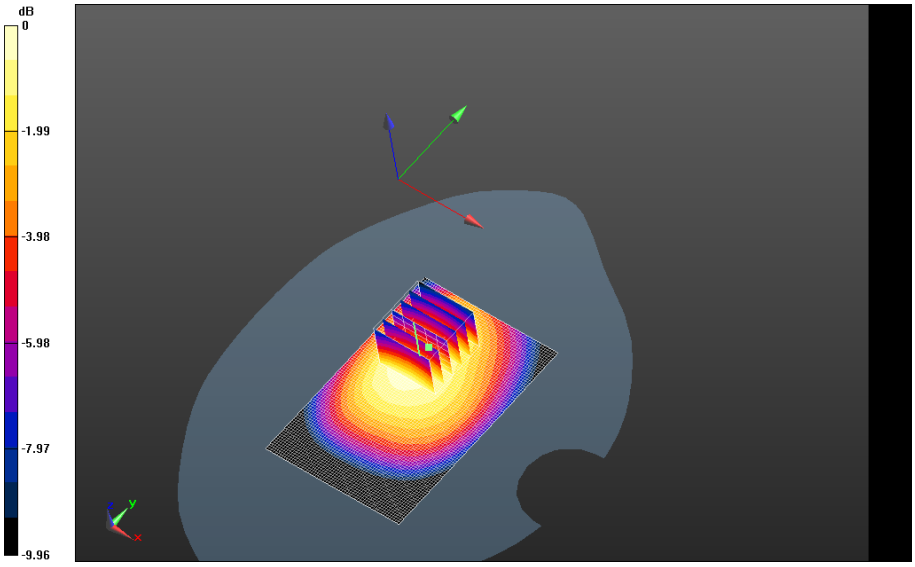
Mobile Hot Spot MSL - UMTS Band V/10mm Device Front - UMTS_Band_V_chan4182_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.775 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Front - UMTS_Band_V_chan4182_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 = 25.903 V/m; **Power Drift = -0.018 dB**

Averaged SAR: SAR(1g) = 0.692 W/kg; SAR(10g) = 0.514 W/kg
Maximum value of SAR (interpolated) = 0.902 W/kg



0 dB = 0.975 W/kg = -0.11 dBW/kg

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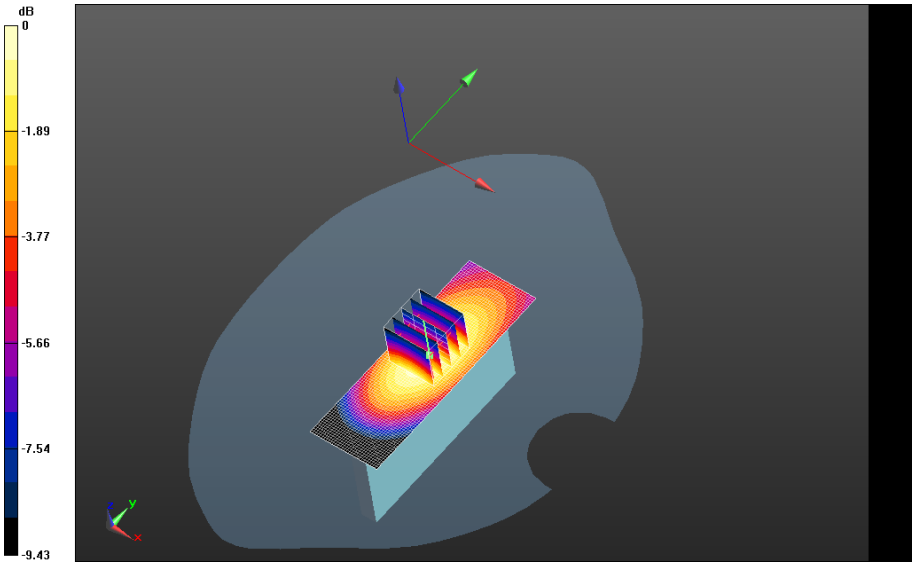
Mobile Hot Spot MSL - UMTS Band V/10mm Device Left - UMTS_Band_V_chan4182_amb_temp_23.0C_liq_temp_22.2C/Area Scan (31x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.337 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Left - UMTS_Band_V_chan4182_amb_temp_23.0C_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 = 19.306 V/m; **Power Drift = 0.054 dB**

Averaged SAR: SAR(1g) = 0.297 W/kg; SAR(10g) = 0.204 W/kg
Maximum value of SAR (interpolated) = 0.421 W/kg



0 dB = 0.770 W/kg = -1.14 dBW/kg

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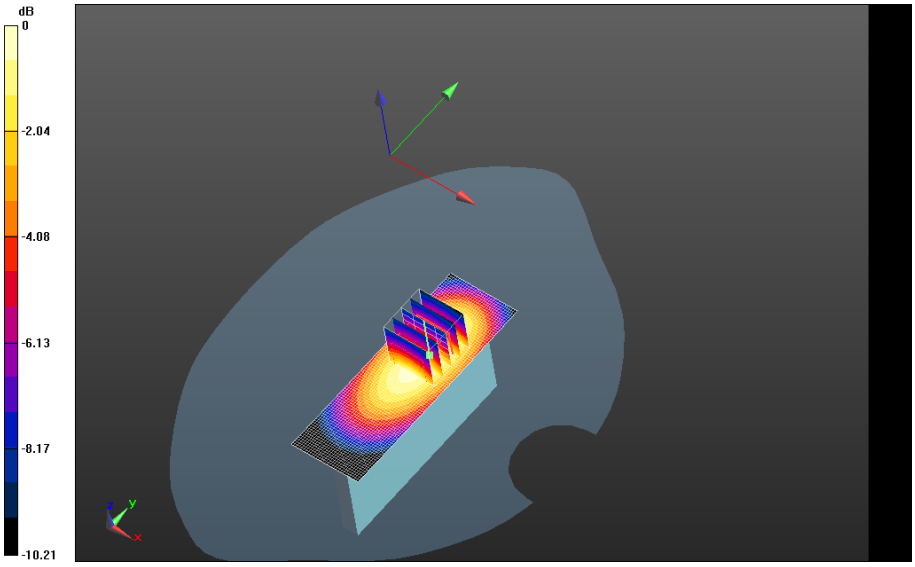
Mobile Hot Spot MSL - UMTS Band V/10mm Device Right - UMTS_Band_V_chan4182_amb_temp_23.2C_liq_temp_22.2C/Area Scan (31x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.868 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Right - UMTS_Band_V_chan4182_amb_temp_23.2C_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 = 30.422 V/m; **Power Drift = 0.0034 dB**

Averaged SAR: SAR(1g) = 0.781 W/kg; SAR(10g) = 0.530 W/kg
Maximum value of SAR (interpolated) = 1.12 W/kg



0 dB = 0.342 W/kg = -4.66 dBW/kg

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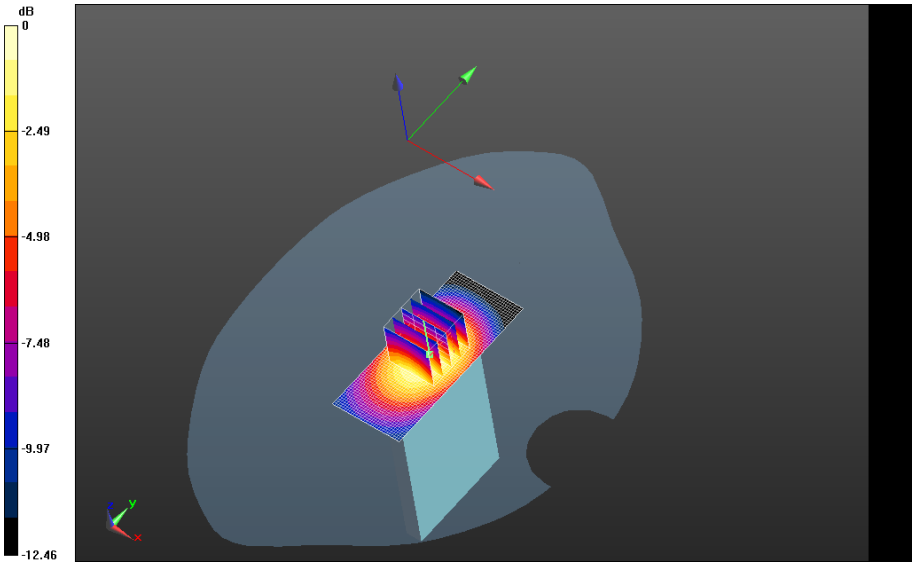
Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom - UMTS_Band_V_chan4182_amb_temp_22.9C_liq_temp_22.2C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.428 W/kg

Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom - UMTS_Band_V_chan4182_amb_temp_22.9C_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 = 21.303 V/m; **Power Drift = 0.019 dB**

Averaged SAR: SAR(1g) = 0.355 W/kg; SAR(10g) = 0.228 W/kg
Maximum value of SAR (interpolated) = 0.527 W/kg



0 dB = 0.897 W/kg = -0.47 dBW/kg

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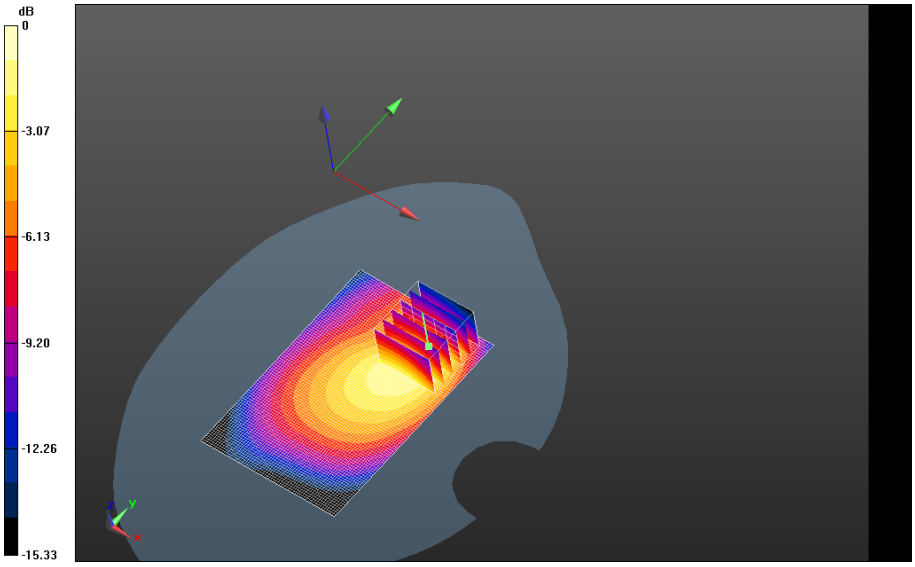
Mobile Hot Spot MSL - UMTS Band V/Headset 10mm Device Back - UMTS_Band_V_chan4182_amb_temp_22.9C_liq_temp_22.2C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.978 W/kg

Mobile Hot Spot MSL - UMTS Band V/Headset 10mm Device Back - UMTS_Band_V_chan4182_amb_temp_22.9C_liq_temp_22.2C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 24.114 V/m; **Power Drift = 0.029 dB**

Averaged SAR: SAR(1g) = 0.838 W/kg; SAR(10g) = 0.532 W/kg
Maximum value of SAR (interpolated) = 1.32 W/kg



0 dB = 0.414 W/kg = -3.83 dBW/kg

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CDMA 850

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Date: 4/16/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - CDMA 850

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular; Frequency: 824.7 MHz
Medium Parameters used: f=825 MHz; σ = 0.947 S/m; ε_r = 53.134; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - CDMA 850/10mm Device Back - CDMA850_chan1013_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.19 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Back - CDMA850_chan1013_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 26.254 V/m; **Power Drift = 0.046 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.673 W/kg
Maximum value of SAR (interpolated) = 1.62 W/kg

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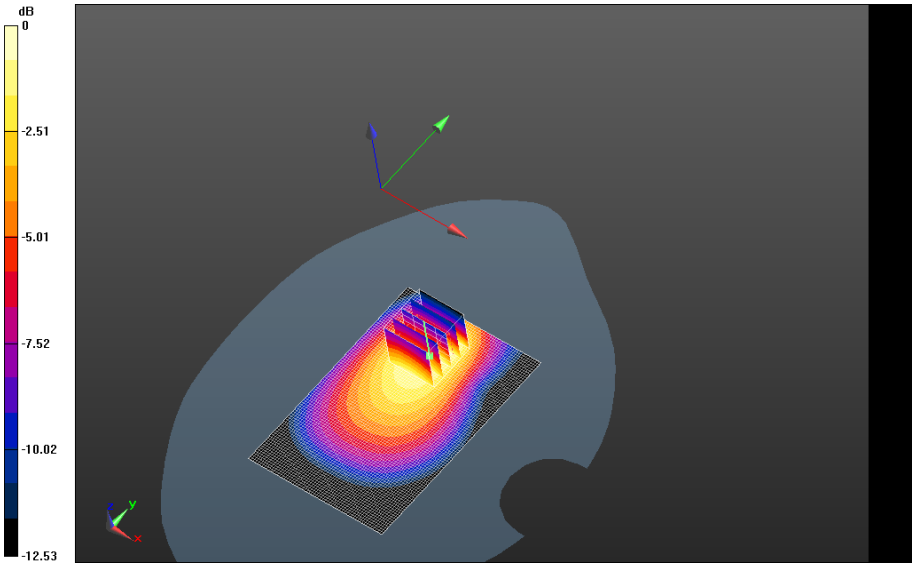

0 dB = 1.19 W/kg = 0.76 dBW/kg

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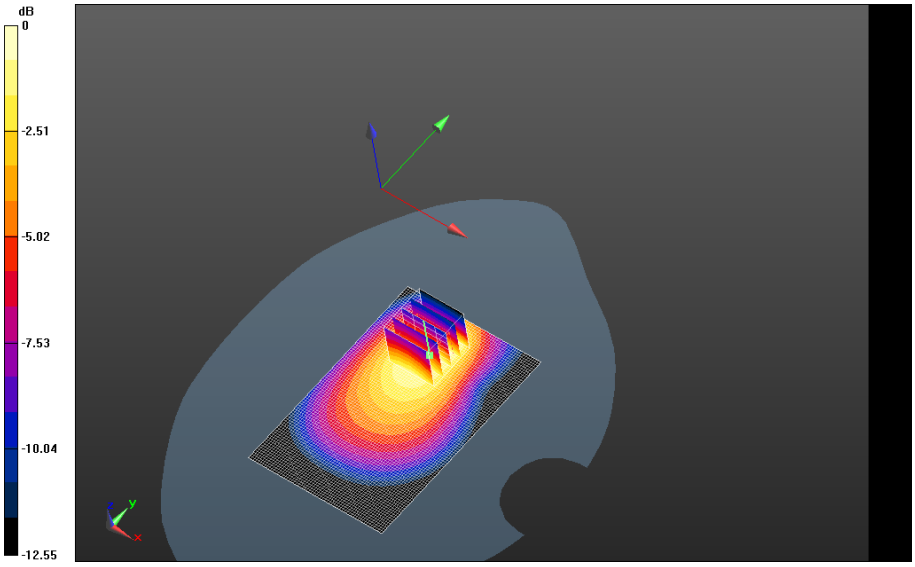
Mobile Hot Spot MSL - CDMA 850/10mm Device Back - CDMA850_chan1013_amb_temp_23.2C_liq_temp_21.7C_2nd_Scan/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.18 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Back - CDMA850_chan1013_amb_temp_23.2C_liq_temp_21.7C_2nd_Scan/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 26.712 V/m; **Power Drift = -0.095 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.675 W/kg
Maximum value of SAR (interpolated) = 1.60 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

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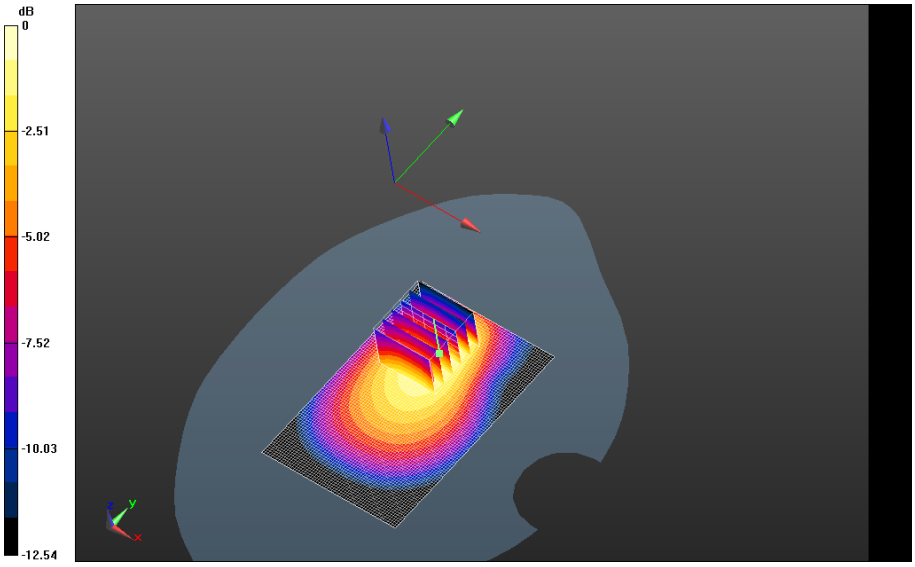
Mobile Hot Spot MSL - CDMA 850/10mm Device Back - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.819 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Back - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 24.019 V/m; **Power Drift = -0.102 dB**

Averaged SAR: SAR(1g) = 0.691 W/kg; SAR(10g) = 0.467 W/kg
Maximum value of SAR (interpolated) = 1.05 W/kg



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

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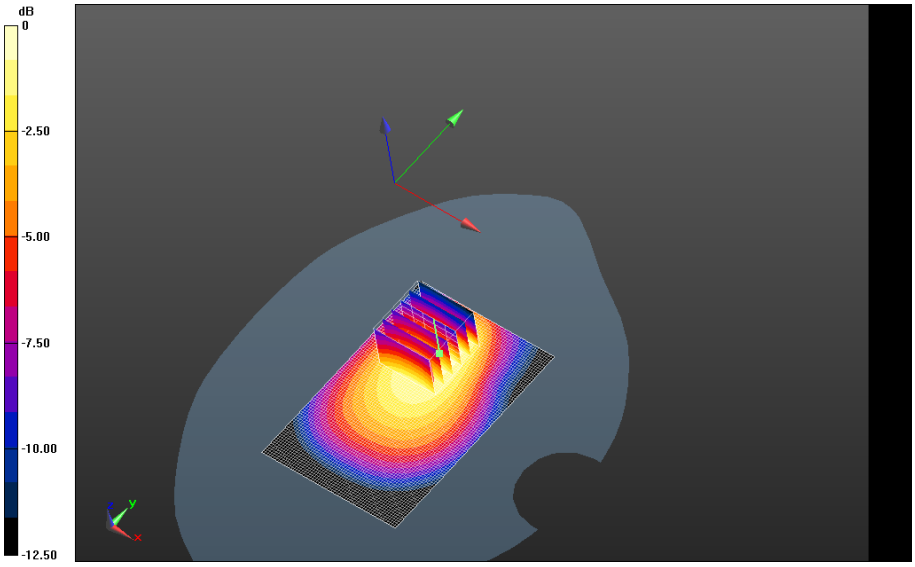
Mobile Hot Spot MSL - CDMA 850/10mm Device Back - CDMA850_chan777_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.904 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Back - CDMA850_chan777_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.963 V/m; **Power Drift = -0.119 dB**

Averaged SAR: SAR(1g) = 0.761 W/kg; SAR(10g) = 0.527 W/kg
Maximum value of SAR (interpolated) = 1.13 W/kg



0 dB = 0.801 W/kg = -0.96 dBW/kg

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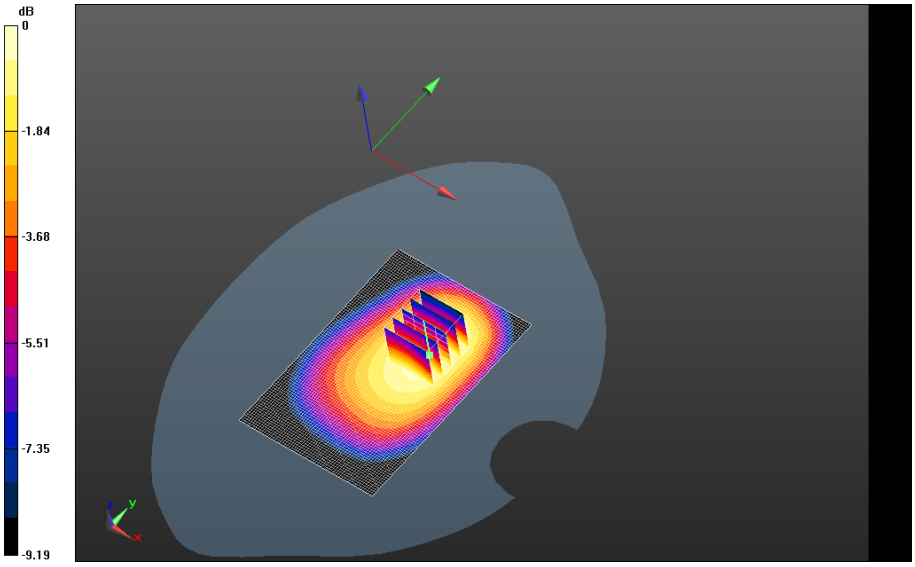
Mobile Hot Spot MSL - CDMA 850/10mm Device Front - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.481 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Front - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 20.670 V/m; **Power Drift = 0.023 dB**

Averaged SAR: SAR(1g) = 0.439 W/kg; SAR(10g) = 0.324 W/kg
Maximum value of SAR (interpolated) = 0.563 W/kg



0 dB = 0.848 W/kg = -0.72 dBW/kg

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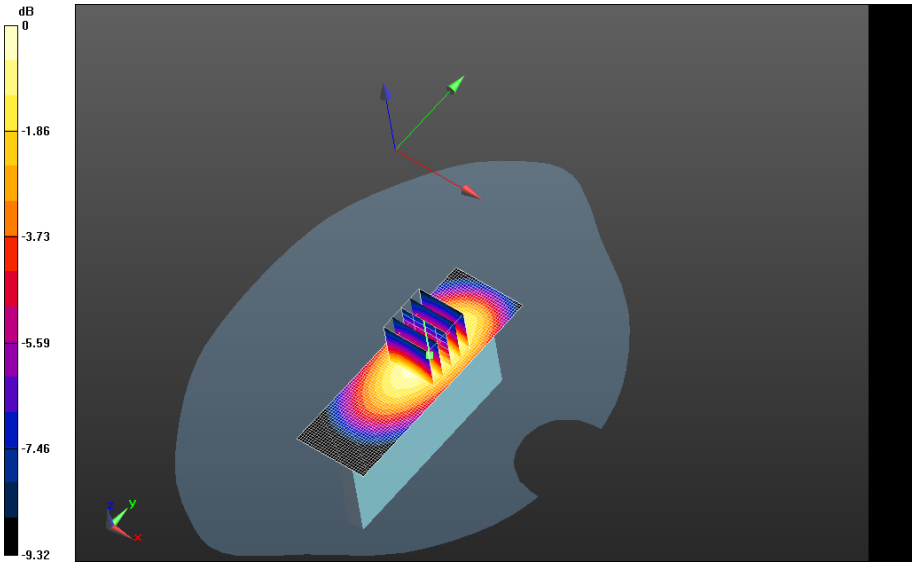
Mobile Hot Spot MSL - CDMA 850/10mm Device Left - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.481 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Left - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.718 V/m; **Power Drift = 0.021 dB**

Averaged SAR: SAR(1g) = 0.431 W/kg; SAR(10g) = 0.296 W/kg
Maximum value of SAR (interpolated) = 0.612 W/kg



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

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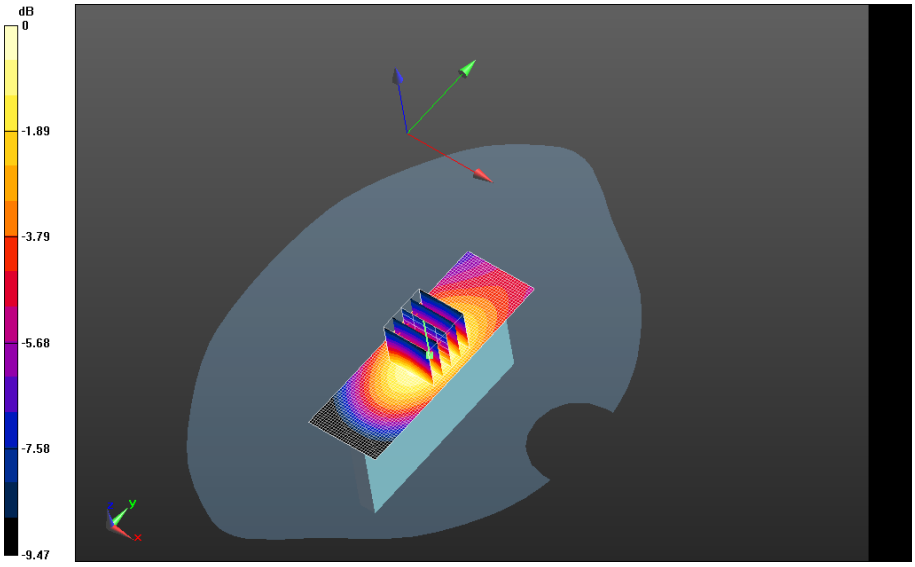
Mobile Hot Spot MSL - CDMA 850/10mm Device Right - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.170 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Right - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.675 V/m; **Power Drift = -0.026 dB**

Averaged SAR: SAR(1g) = 0.147 W/kg; SAR(10g) = 0.100 W/kg
Maximum value of SAR (interpolated) = 0.211 W/kg



0 dB = 0.497 W/kg = -3.04 dBW/kg

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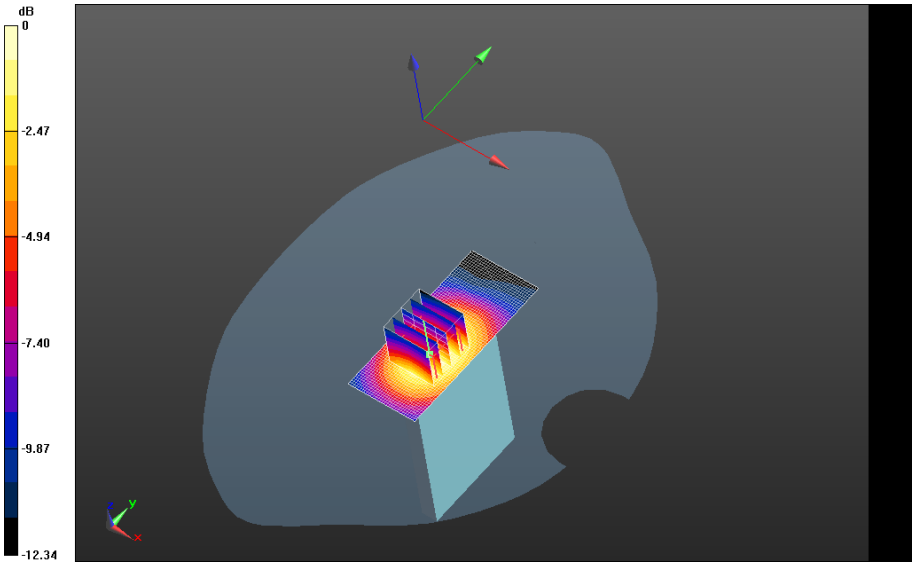
Mobile Hot Spot MSL - CDMA 850/10mm Device Bottom - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.227 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Bottom - CDMA850_chan384_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 15.360 V/m; **Power Drift = 0.048 dB**

Averaged SAR: SAR(1g) = 0.192 W/kg; SAR(10g) = 0.123 W/kg
Maximum value of SAR (interpolated) = 0.291 W/kg



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

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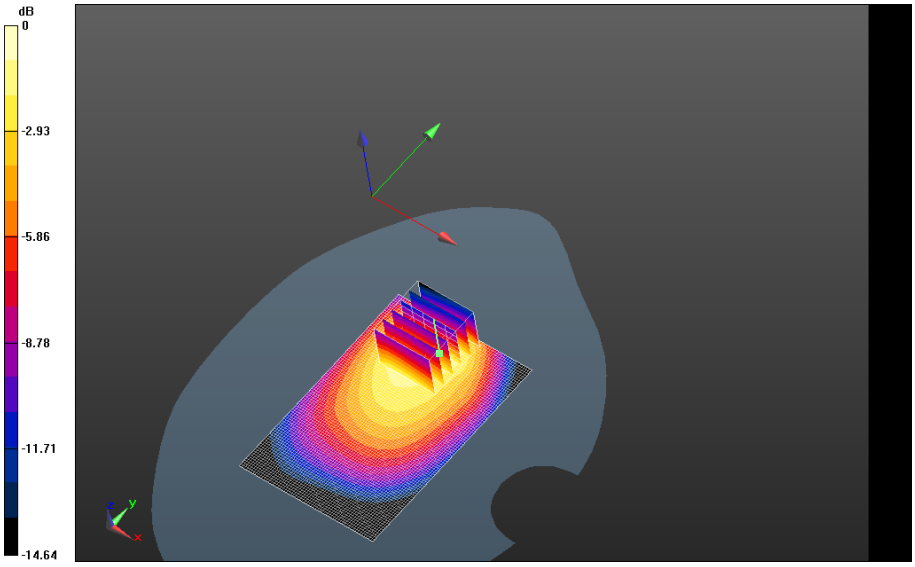
Mobile Hot Spot MSL - CDMA 850/Headset 10mm Device Back - CDMA850_chan1013_amb_temp_23.2C_liq_temp_22.1C_2nd_Scan/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.790 W/kg

Mobile Hot Spot MSL - CDMA 850/Headset 10mm Device Back - CDMA850_chan1013_amb_temp_23.2C_liq_temp_22.1C_2nd_Scan/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.534 V/m; **Power Drift = -0.040 dB**

Averaged SAR: SAR(1g) = 0.720 W/kg; SAR(10g) = 0.444 W/kg
Maximum value of SAR (interpolated) = 1.23 W/kg



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

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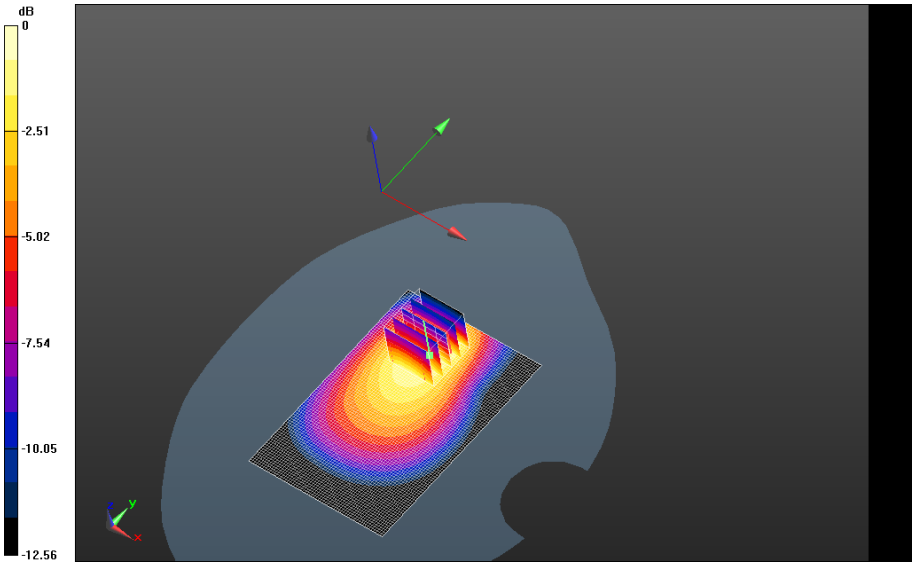
Mobile Hot Spot MSL - CDMA 850/10mm Device Back 2100mA - CDMA850_chan1013_amb_temp_23.2C_liq_temp_22.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.08 W/kg

Mobile Hot Spot MSL - CDMA 850/10mm Device Back 2100mA - CDMA850_chan1013_amb_temp_23.2C_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 = 25.296 V/m; **Power Drift = -0.015 dB**

Averaged SAR: SAR(1g) = 0.963 W/kg; SAR(10g) = 0.631 W/kg
Maximum value of SAR (interpolated) = 1.51 W/kg



0 dB = 0.856 W/kg = -0.68 dBW/kg

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GPRS 1900

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Date: 4/9/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - GPRS 1900

Communication System: GPRS 1900; Communication System Band: GPRS 1900; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; σ = 1.515 S/m; ε_r = 50.915; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.731 V/m; **Power Drift = 0.044 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS_1900_2-slot_chan661_amb_temp_23.2C_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 = 21.385 V/m; **Power Drift = 0.044 dB**

Averaged SAR: SAR(1g) = 0.610 W/kg; SAR(10g) = 0.358 W/kg
Maximum value of SAR (interpolated) = 1.01 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan 2 (36x36x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.385 V/m; **Power Drift = 0.069 dB**

Averaged SAR: SAR(1g) = 0.611 W/kg; SAR(10g) = 0.358 W/kg
Maximum value of SAR (interpolated) = 1.02 W/kg

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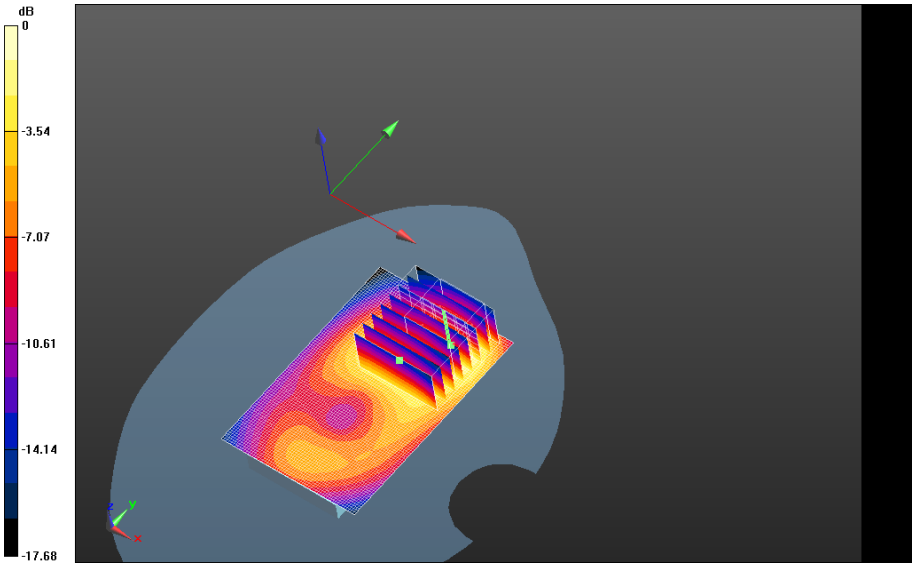

0 dB = 0.743 W/kg = -1.29 dBW/kg

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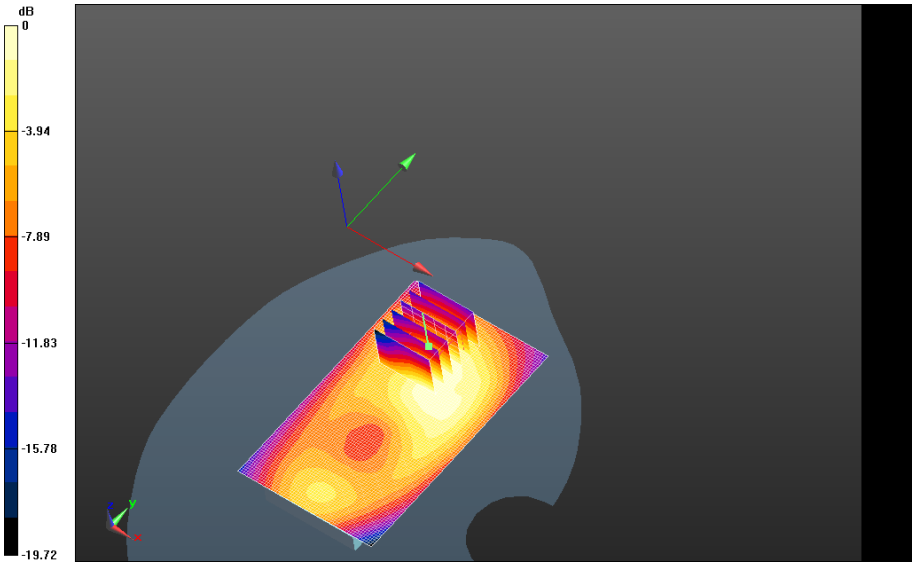
Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.044 V/m; **Power Drift = -0.047 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS_1900_2-slot_chan661_amb_temp_23.2C_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 = 17.547 V/m; **Power Drift = -0.047 dB**

Averaged SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.220 W/kg
Maximum value of SAR (interpolated) = 0.591 W/kg



0 dB = 0.743 W/kg = -1.29 dBW/kg

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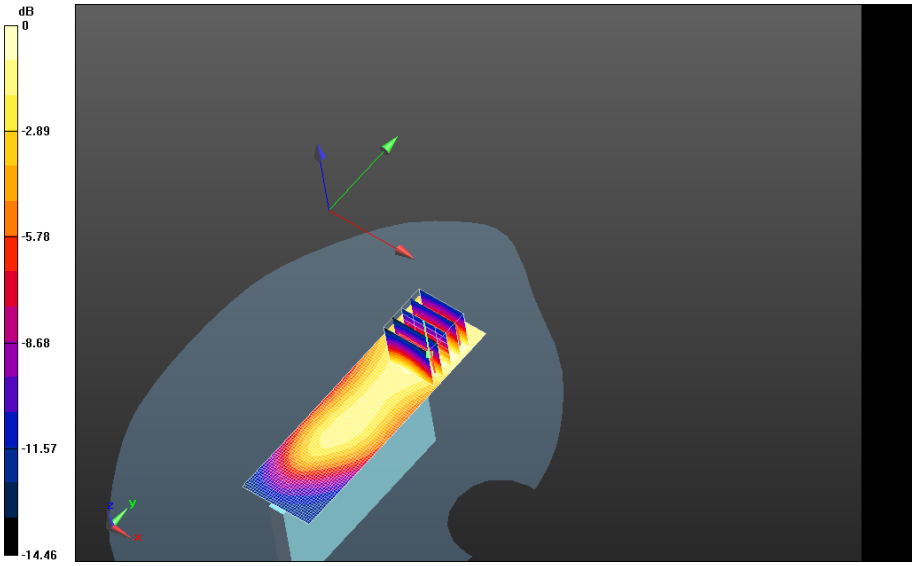
Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.213 V/m; **Power Drift = -0.038 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS_1900_2-slot_chan661_amb_temp_23.2C_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 = 9.392 V/m; **Power Drift = -0.038 dB**

Averaged SAR: SAR(1g) = 0.107 W/kg; SAR(10g) = 0.0665 W/kg
Maximum value of SAR (interpolated) = 0.166 W/kg



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

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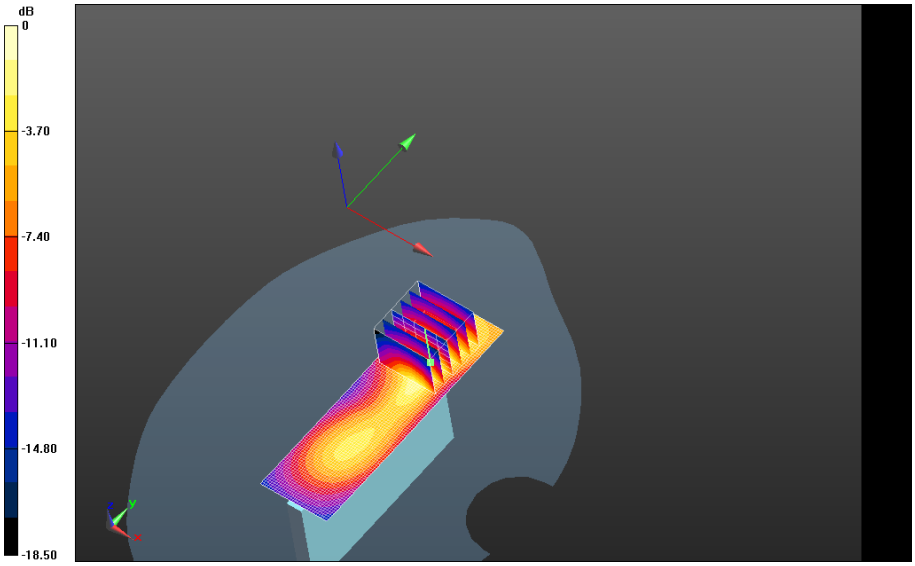
Mobile Hot Spot MSL - GPRS 1900/10mm Device Right -GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.772 V/m; **Power Drift = 0.036 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Right -GPRS_1900_2-slot_chan661_amb_temp_23.2C_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 = 12.087 V/m; **Power Drift = 0.036 dB**

Averaged SAR: SAR(1g) = 0.208 W/kg; SAR(10g) = 0.113 W/kg
Maximum value of SAR (interpolated) = 0.374 W/kg



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

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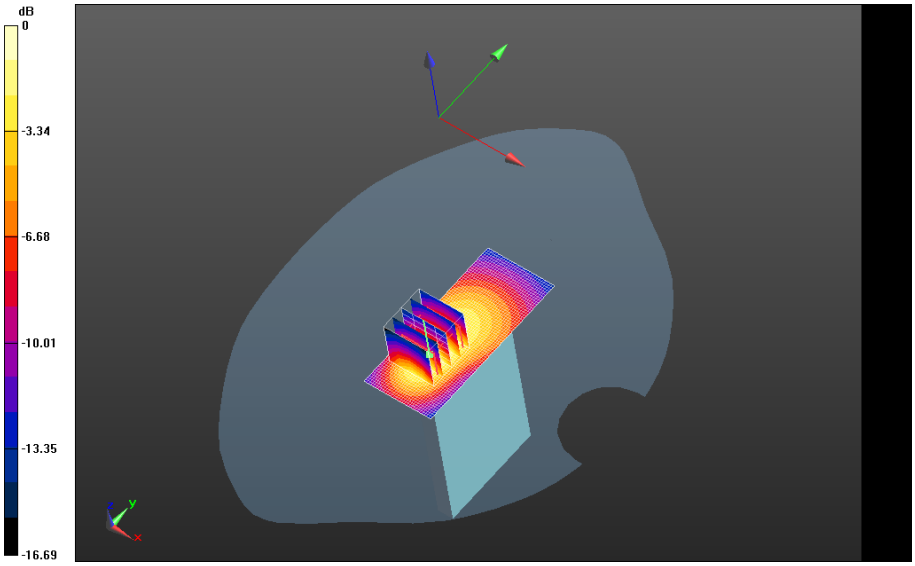
Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.739 V/m; **Power Drift = -0.053 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom - GPRS_1900_2-slot_chan661_amb_temp_23.2C_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 = 22.565 V/m; **Power Drift = -0.053 dB**

Averaged SAR: SAR(1g) = 0.640 W/kg; SAR(10g) = 0.353 W/kg
Maximum value of SAR (interpolated) = 1.10 W/kg



0 dB = 0.256 W/kg = -5.92 dBW/kg

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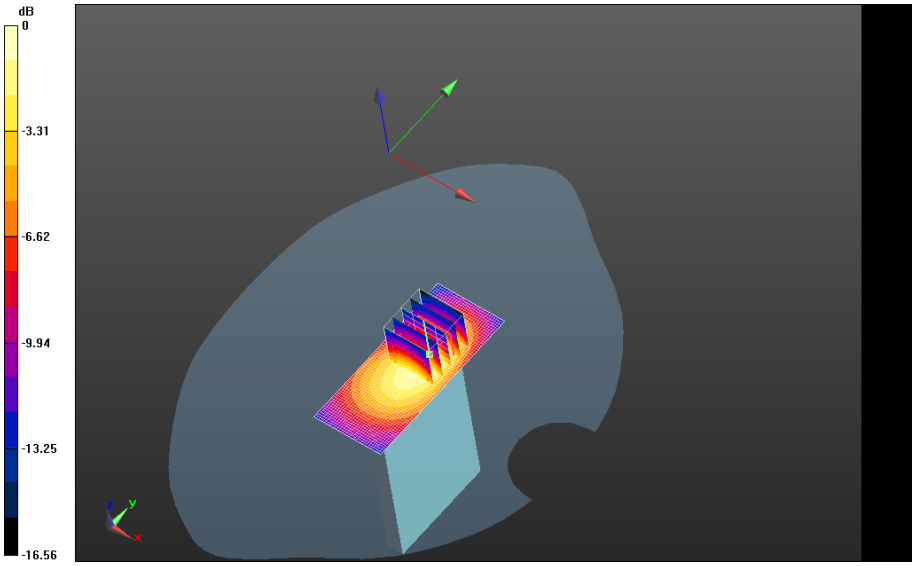
Mobile Hot Spot MSL - GPRS 1900/Headset 10mm Device Bottom - GPRS_1900_2-slot_chan661_amb_temp_23.7C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.404 V/m; **Power Drift = -0.092 dB**

Mobile Hot Spot MSL - GPRS 1900/Headset 10mm Device Bottom - GPRS_1900_2-slot_chan661_amb_temp_23.7C_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 = 23.064 V/m; **Power Drift = -0.092 dB**

Averaged SAR: SAR(1g) = 0.684 W/kg; SAR(10g) = 0.378 W/kg
Maximum value of SAR (interpolated) = 1.20 W/kg



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

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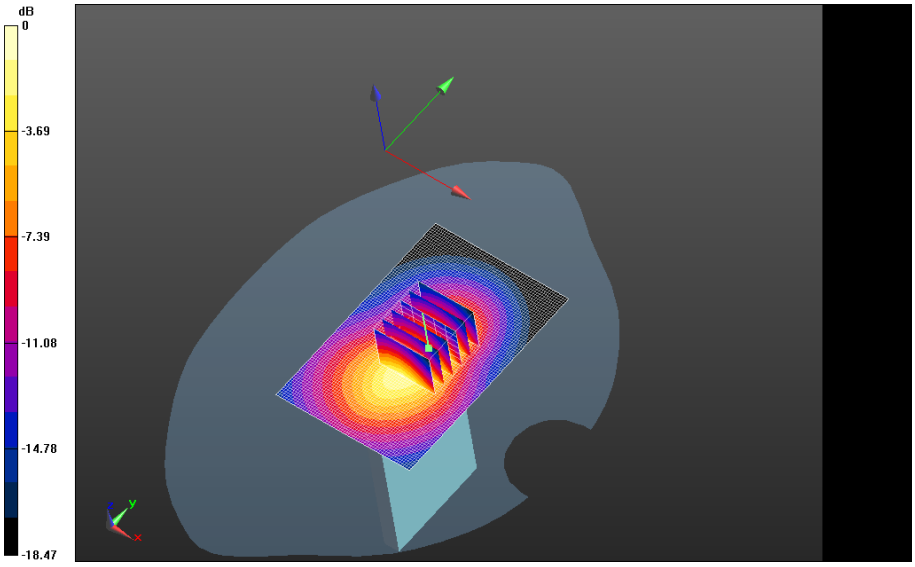
Mobile Hot Spot MSL - GPRS 1900/Headset 10mm Device Bottom - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C_2100mA_Battery/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.805 W/kg

Mobile Hot Spot MSL - GPRS 1900/Headset 10mm Device Bottom - GPRS_1900_2-slot_chan661_amb_temp_23.2C_liq_temp_21.1C_2100mA_Battery/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 3.943 V/m; **Power Drift = 0.015 dB**

Averaged SAR: SAR(1g) = 0.651 W/kg; SAR(10g) = 0.355 W/kg
Maximum value of SAR (interpolated) = 1.15 W/kg



0 dB = 0.725 W/kg = -1.40 dBW/kg

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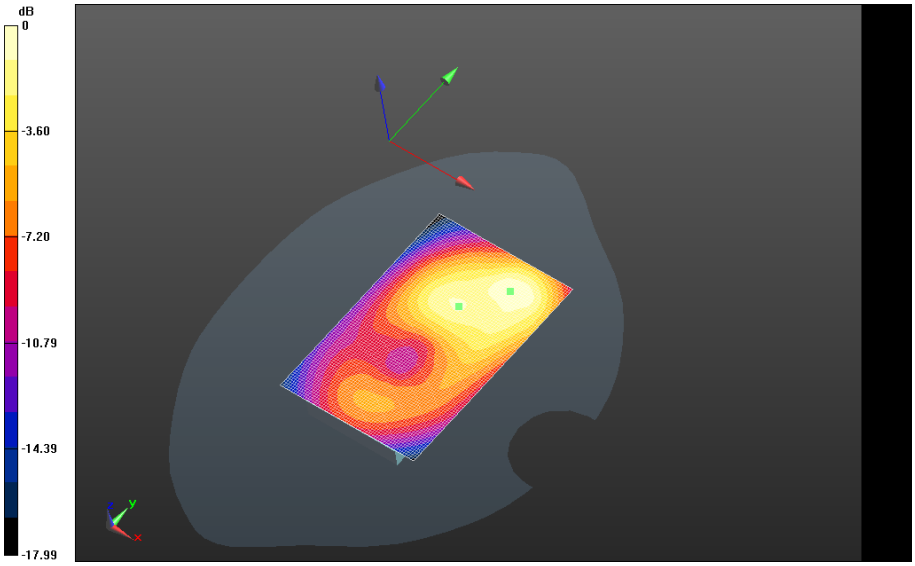
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS_1900_3-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.219 V/m; **Power Drift = -0.092 dB**

Fast SAR: SAR(1g) = 0.556 W/kg; SAR(10g) = 0.321 W/kg; Secondary SAR(1g) = 0.450 W/kg
Maximum value of SAR (interpolated) = 0.687 W/kg



0 dB = 0.856 W/kg = -0.68 dBW/kg

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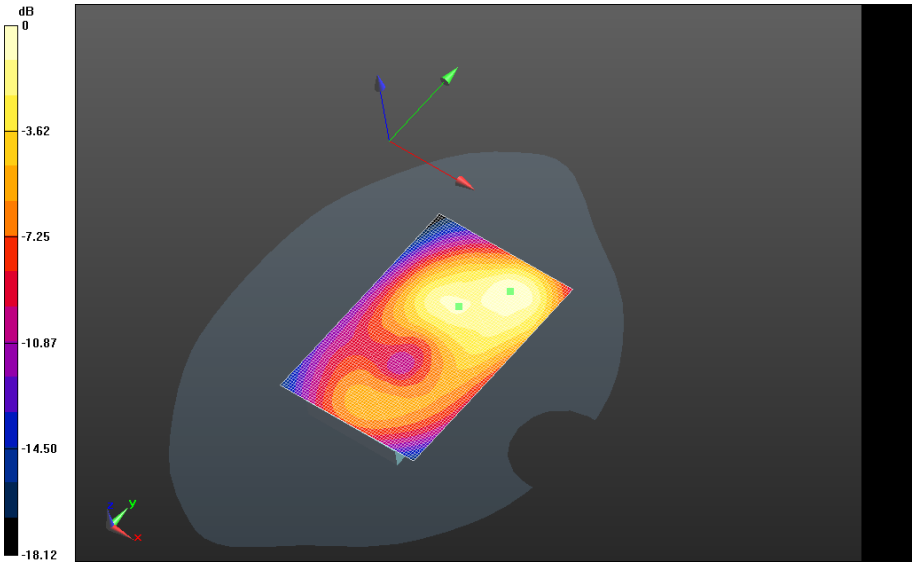
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS_1900_4-slot_chan661_amb_temp_23.2C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.559 V/m; **Power Drift = -0.092 dB**

Fast SAR: SAR(1g) = 0.589 W/kg; SAR(10g) = 0.345 W/kg; Secondary SAR(1g) = 0.493 W/kg
Maximum value of SAR (interpolated) = 0.730 W/kg



0 dB = 0.687 W/kg = -1.63 dBW/kg

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UMTS Band II

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Date: 4/8/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz
Medium Parameters used: f=1852.4 MHz; σ = 1.485 S/m; ε_r = 50.993; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.519 V/m; **Power Drift = -0.095 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back - UMTS_II_chan9262_amb_temp_23.3C_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 = 28.706 V/m; **Power Drift = -0.095 dB**

Averaged SAR: SAR(1g) = 0.978 W/kg; SAR(10g) = 0.581 W/kg
Maximum value of SAR (interpolated) = 1.56 W/kg

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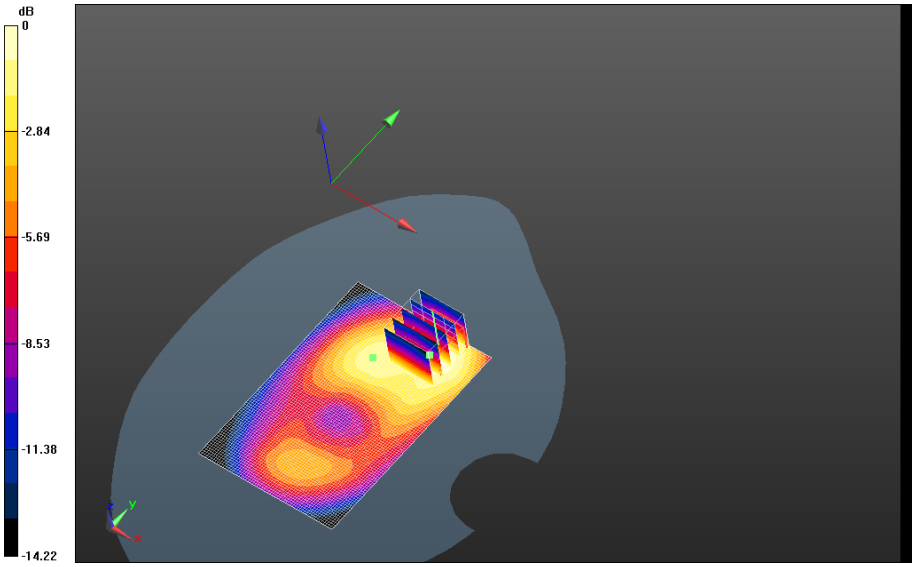

0 dB = 1.15 W/kg = 0.61 dBW/kg

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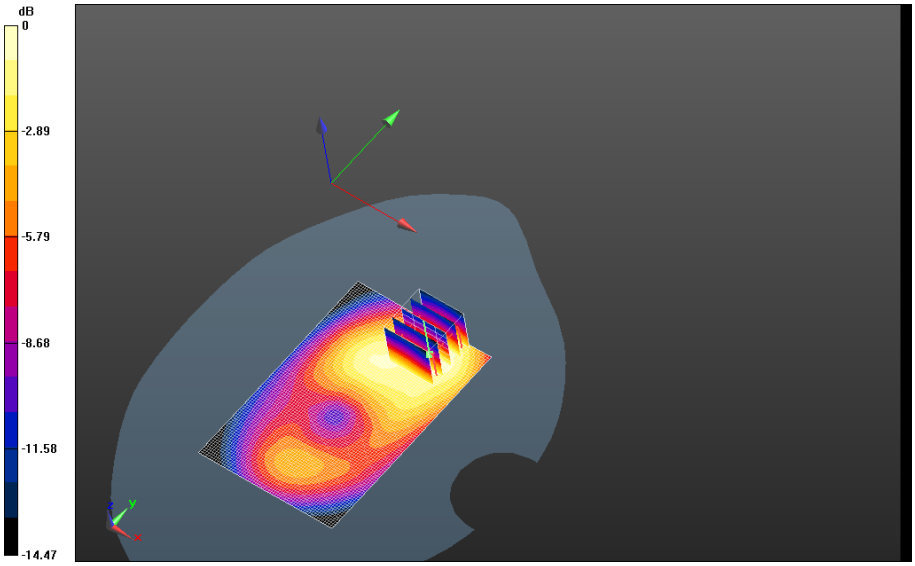
Mobile Hot Spot MSL - UMTS Band II/10mm Device Back - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.006 V/m; **Power Drift = 0.017 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back - UMTS_II_chan9400_amb_temp_23.3C_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 = 28.409 V/m; **Power Drift = 0.017 dB**

Averaged SAR: SAR(1g) = 0.957 W/kg; SAR(10g) = 0.569 W/kg
Maximum value of SAR (interpolated) = 1.53 W/kg



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

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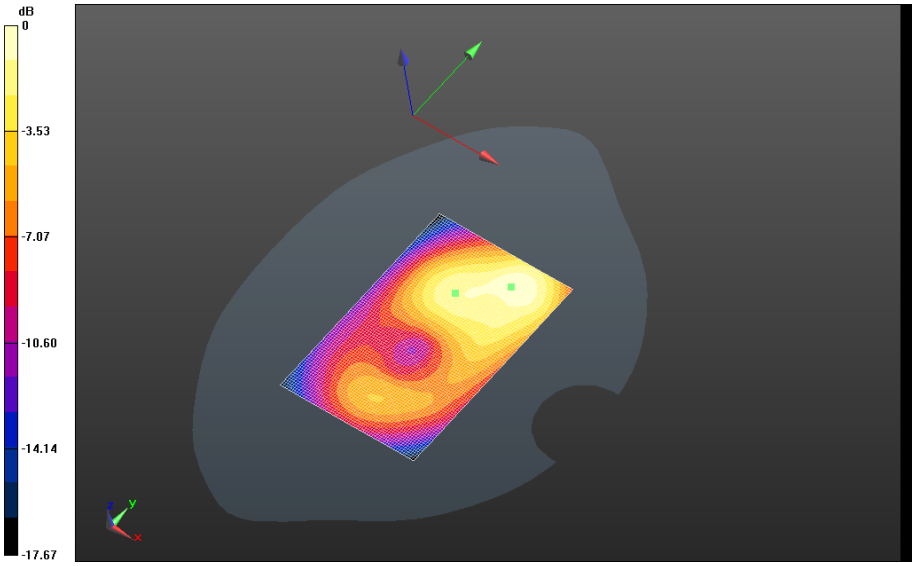
Mobile Hot Spot MSL - UMTS Band II/10mm Device Back - UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.341 V/m; **Power Drift = -0.028 dB**

Fast SAR: SAR(1g) = 0.921 W/kg; SAR(10g) = 0.535 W/kg; Secondary SAR(1g) = 0.746 W/kg
Maximum value of SAR (interpolated) = 1.13 W/kg



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

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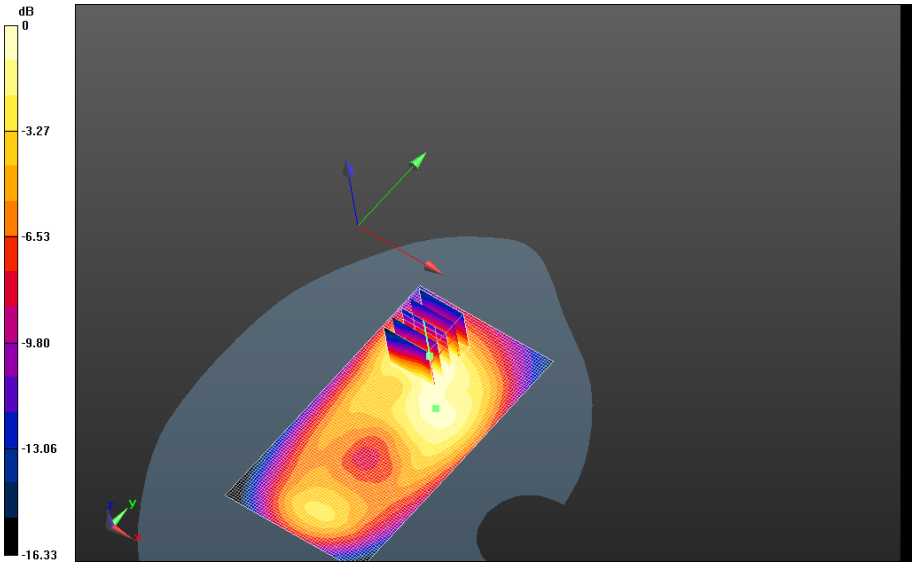
Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.598 V/m; **Power Drift = -0.076 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS_II_chan9262_amb_temp_23.3C_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 = 22.692 V/m; **Power Drift = -0.076 dB**

Averaged SAR: SAR(1g) = 0.666 W/kg; SAR(10g) = 0.389 W/kg
Maximum value of SAR (interpolated) = 1.09 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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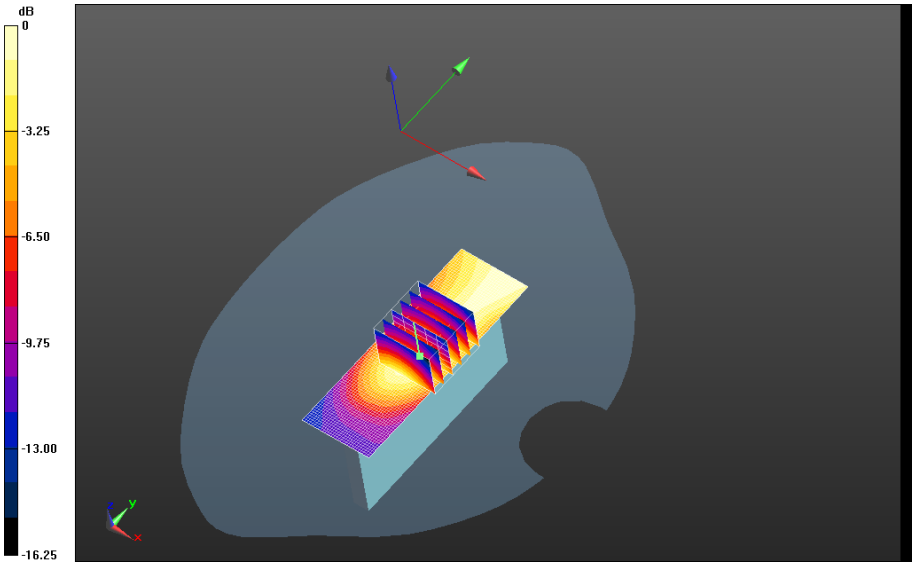
Mobile Hot Spot MSL - UMTS Band II/10mm Device Left - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.821 V/m; **Power Drift = -0.011 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Left - UMTS_II_chan9262_amb_temp_23.3C_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 = 11.118 V/m; **Power Drift = -0.011 dB**

Averaged SAR: SAR(1g) = 0.148 W/kg; SAR(10g) = 0.0907 W/kg
Maximum value of SAR (interpolated) = 0.236 W/kg



0 dB = 0.725 W/kg = -1.40 dBW/kg

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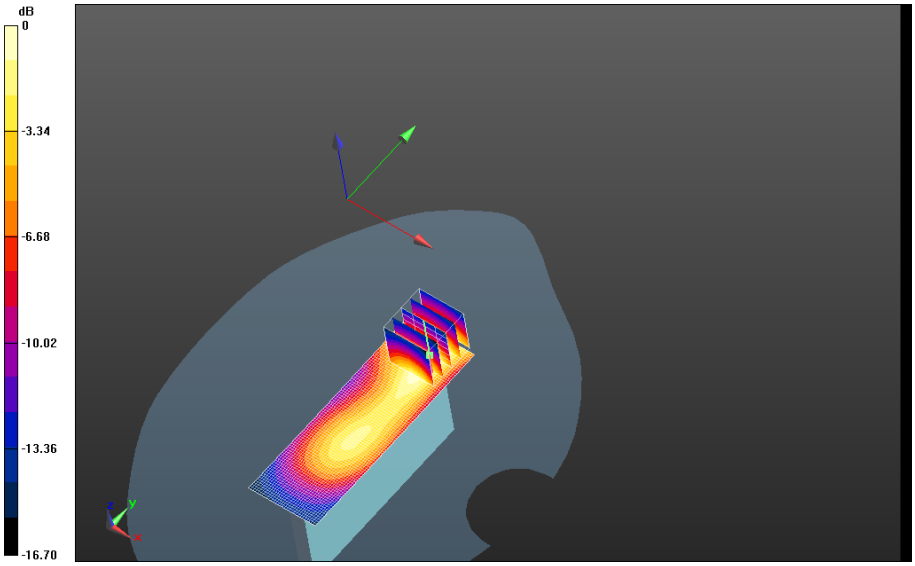
Mobile Hot Spot MSL - UMTS Band II/10mm Device Right - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.115 V/m; **Power Drift = 0.196 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Right - UMTS_II_chan9262_amb_temp_23.3C_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 = 15.923 V/m; **Power Drift = 0.196 dB**

Averaged SAR: SAR(1g) = 0.332 W/kg; SAR(10g) = 0.187 W/kg
Maximum value of SAR (interpolated) = 0.587 W/kg



0 dB = 0.177 W/kg = -7.52 dBW/kg

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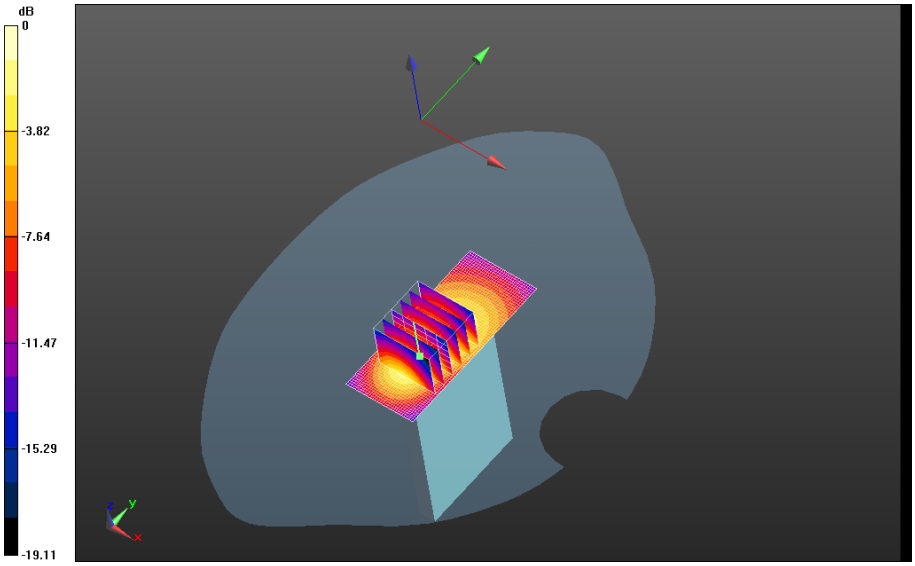
Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 28.305 V/m; **Power Drift = -0.052 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9262_amb_temp_23.3C_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 = 28.305 V/m; **Power Drift = -0.052 dB**

Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.589 W/kg
Maximum value of SAR (interpolated) = 1.77 W/kg



0 dB = 0.366 W/kg = -4.37 dBW/kg

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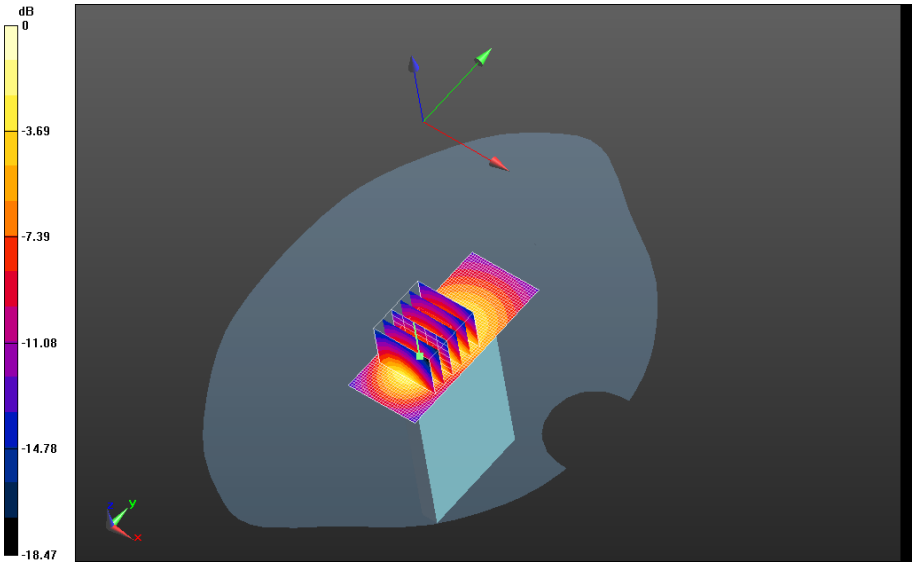
Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C_2nd/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.794 V/m; **Power Drift = 0.100 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C_2nd/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 27.794 V/m; **Power Drift = 0.100 dB**

Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.591 W/kg
Maximum value of SAR (interpolated) = 1.79 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

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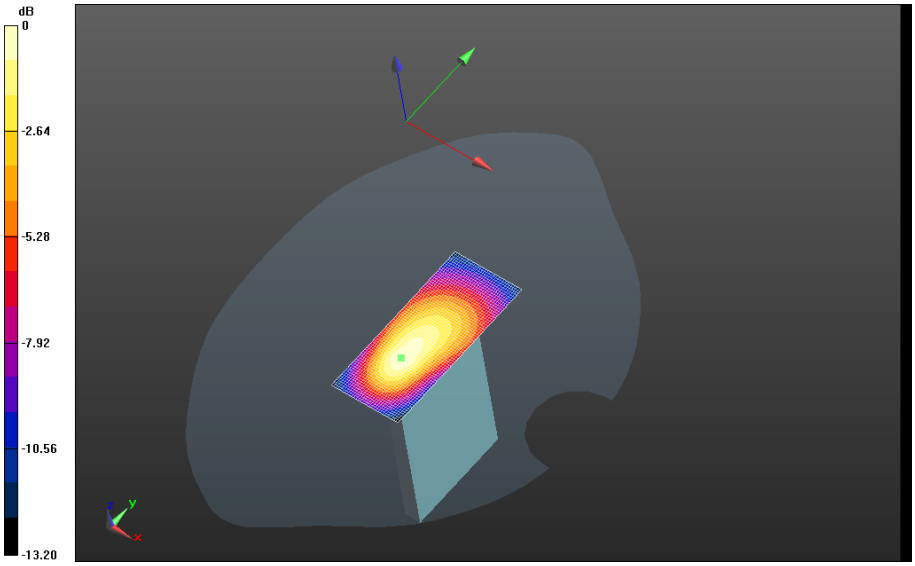
Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.681 V/m; **Power Drift = 0.059 dB**

Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.568 W/kg; Secondary SAR(1g) = 0.191 W/kg
Maximum value of SAR (interpolated) = 1.29 W/kg



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

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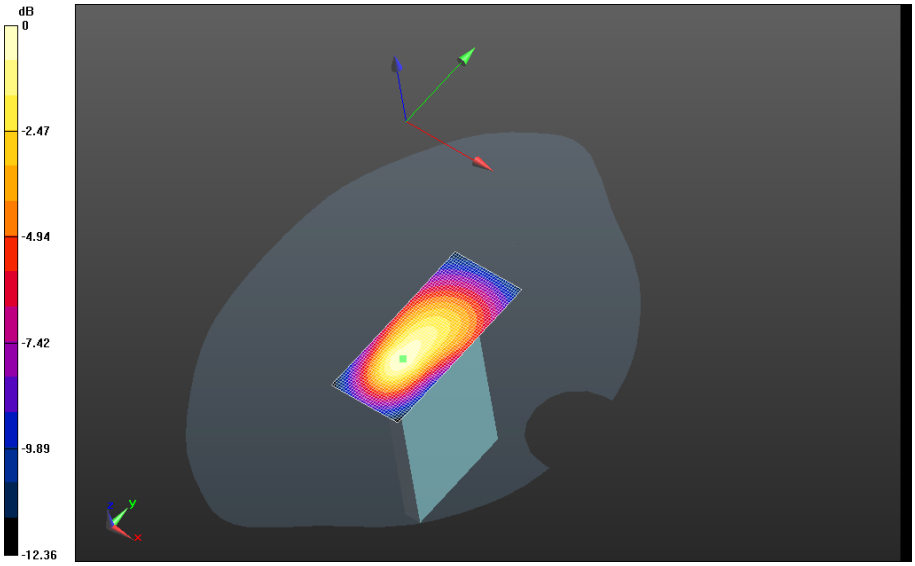
Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 26.080 V/m; **Power Drift = -0.068 dB**

Fast SAR: SAR(1g) = 0.931 W/kg; SAR(10g) = 0.506 W/kg; Secondary SAR(1g) = 0.191 W/kg
Maximum value of SAR (interpolated) = 1.17 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

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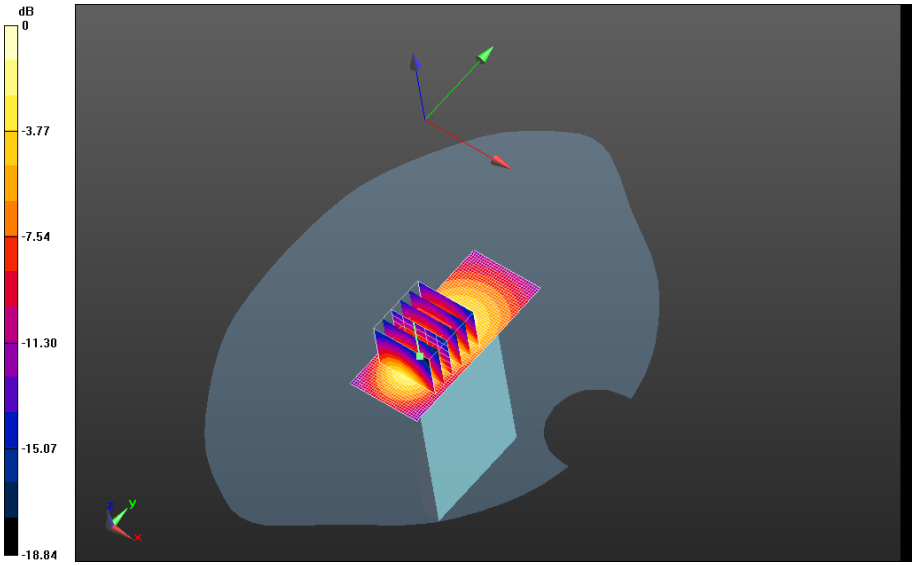
Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C_2100mA/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.624 V/m; **Power Drift = 0.00417 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C_2100mA/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 27.140 V/m; **Power Drift = 0.00417 dB**

Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.572 W/kg
Maximum value of SAR (interpolated) = 1.81 W/kg



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

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Date: 4/25/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - UMTS Band II_Headset

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz
Medium Parameters used: f=1852.4 MHz; σ = 1.497 S/m; ε_r = 50.829; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band II_Headset/Headset 10mm Device Bottom - UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.1C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.22 W/kg

Mobile Hot Spot MSL - UMTS Band II_Headset/Headset 10mm Device Bottom - UMTS_II_chan9262_amb_temp_23.3C_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 = 26.013 V/m; **Power Drift = -0.054 dB**

Averaged SAR: SAR(1g) = 1.00 W/kg; SAR(10g) = 0.575 W/kg
Maximum value of SAR (interpolated) = 1.67 W/kg

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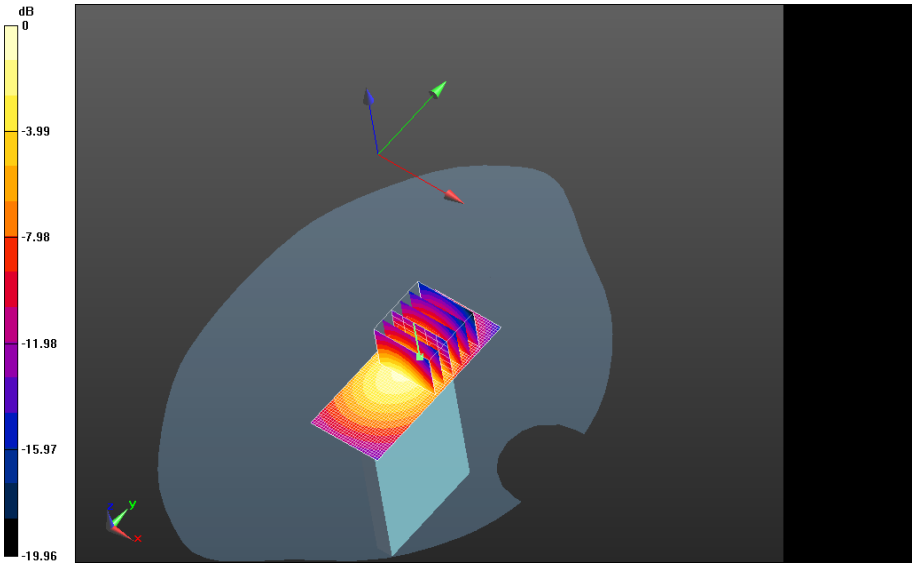

0 dB = 1.24 W/kg = 0.93 dBW/kg

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CDMA 1900

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Date: 4/11/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - CDMA 1900

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS;
Frequency: 1851.25 MHz
Medium Parameters used: f=1851.25 MHz; σ = 1.512 S/m; ε_r = 50.942; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan25_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.839 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan25_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.312 V/m; **Power Drift = -0.011 dB**

Averaged SAR: SAR(1g) = 0.703 W/kg; SAR(10g) = 0.407 W/kg
Maximum value of SAR (interpolated) = 1.19 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan25_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan 2 (41x31x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.312 V/m; **Power Drift = -0.049 dB**

Averaged SAR: SAR(1g) = 0.701 W/kg; SAR(10g) = 0.408 W/kg
Maximum value of SAR (interpolated) = 1.18 W/kg

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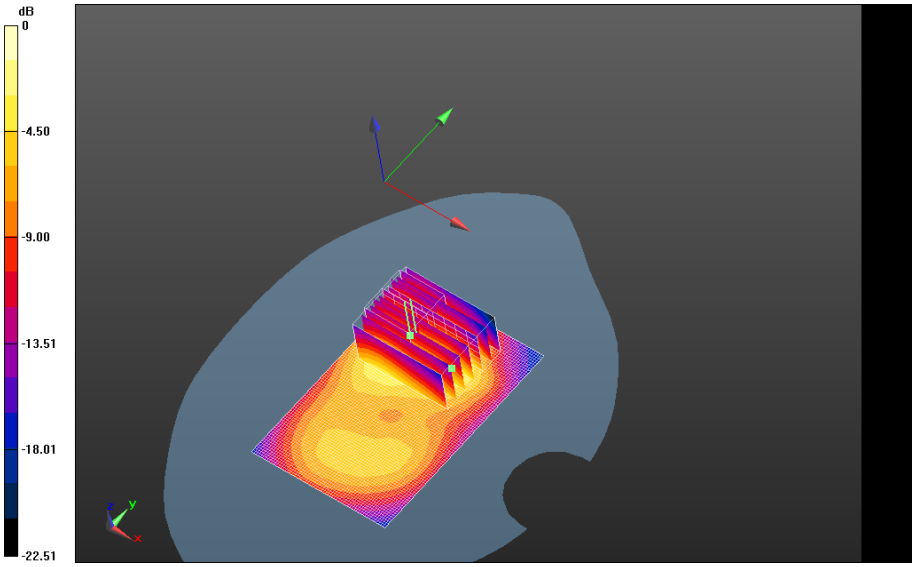

0 dB = 0.847 W/kg = -0.72 dBW/kg

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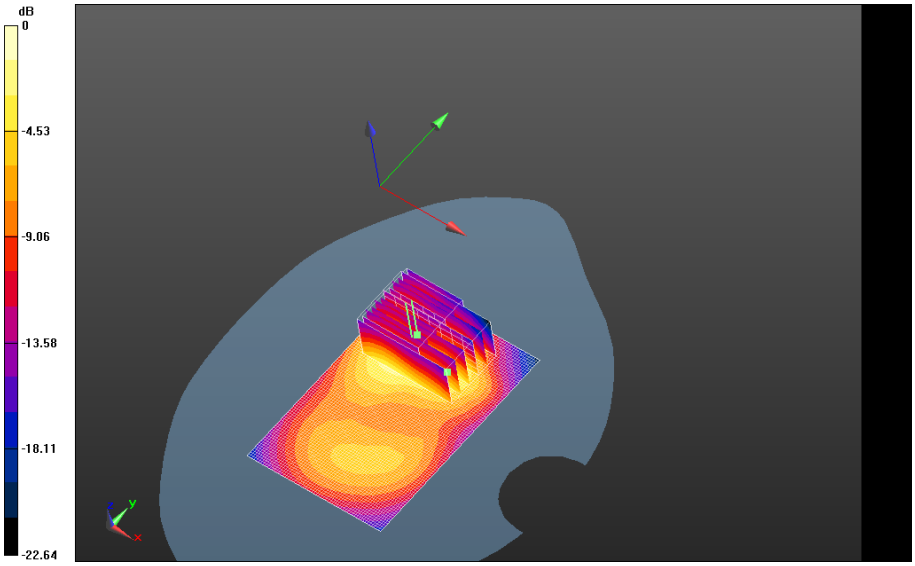
Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.917 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.370 V/m; **Power Drift = 0.00447 dB**

Averaged SAR: SAR(1g) = 0.764 W/kg; SAR(10g) = 0.436 W/kg
Maximum value of SAR (interpolated) = 1.30 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan 2 (41x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.370 V/m; **Power Drift = 0.088 dB**

Averaged SAR: SAR(1g) = 0.774 W/kg; SAR(10g) = 0.440 W/kg
Maximum value of SAR (interpolated) = 1.32 W/kg



0 dB = 0.847 W/kg = -0.72 dBW/kg

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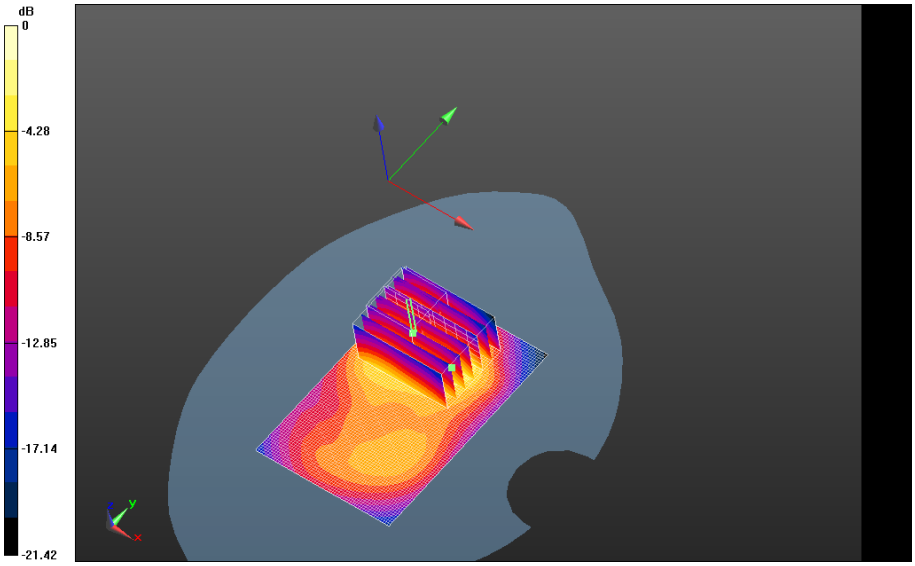
Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.28 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.770 V/m; **Power Drift = -0.042 dB**

Averaged SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.618 W/kg
Maximum value of SAR (interpolated) = 1.84 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan 2 (41x31x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.770 V/m; **Power Drift = -0.041 dB**

Averaged SAR: SAR(1g) = 1.07 W/kg; SAR(10g) = 0.617 W/kg
Maximum value of SAR (interpolated) = 1.83 W/kg



0 dB = 0.951 W/kg = -0.22 dBW/kg

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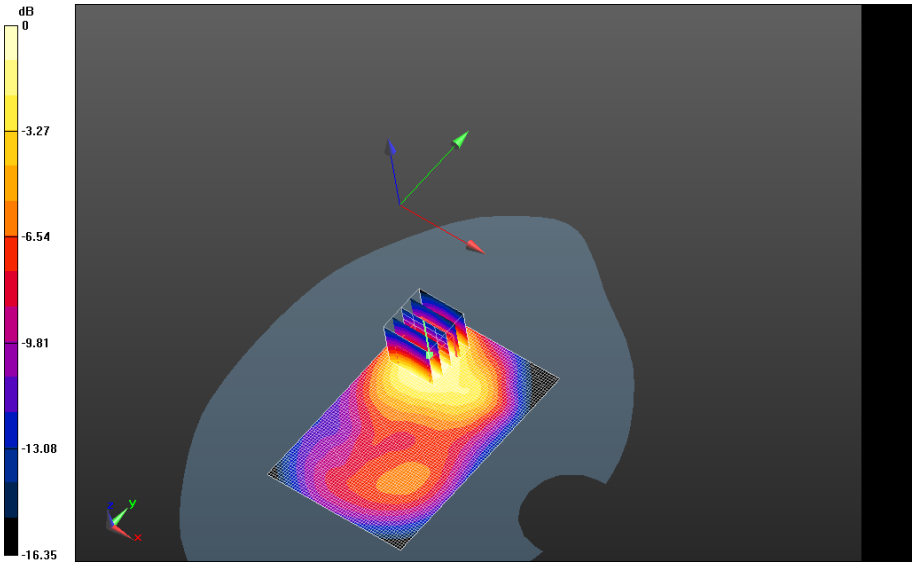
Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C_2nd/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C_2nd/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.659 V/m; **Power Drift = -0.018 dB**

Averaged SAR: SAR(1g) = 1.07 W/kg; SAR(10g) = 0.620 W/kg
Maximum value of SAR (interpolated) = 1.83 W/kg



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

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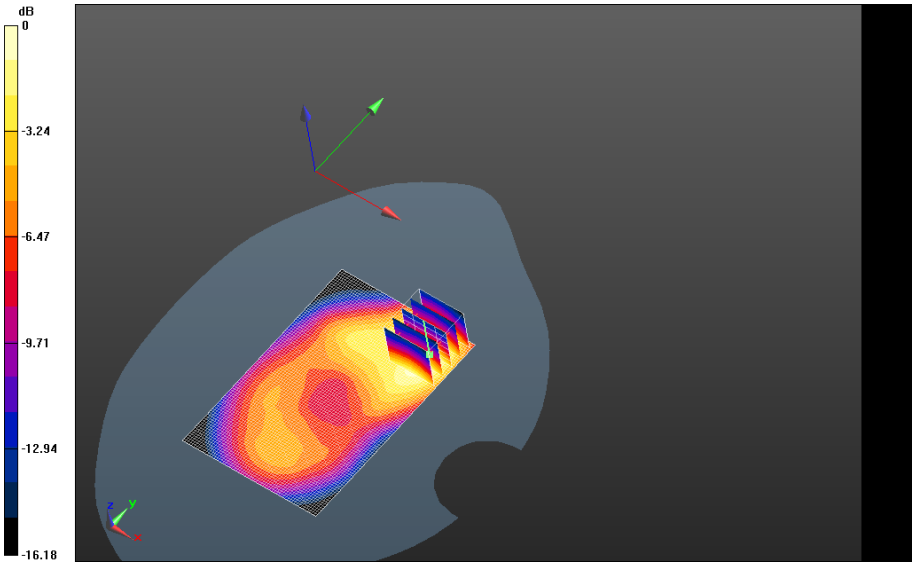
Mobile Hot Spot MSL - CDMA 1900/10mm Device Front - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.605 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Front - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.579 V/m; **Power Drift = 0.133 dB**

Averaged SAR: SAR(1g) = 0.484 W/kg; SAR(10g) = 0.273 W/kg
Maximum value of SAR (interpolated) = 0.845 W/kg



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

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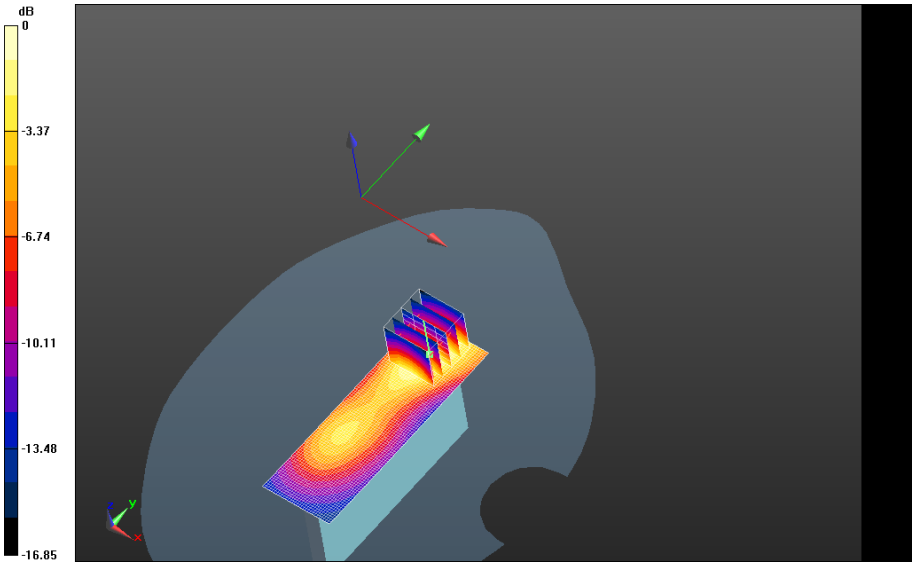
Mobile Hot Spot MSL - CDMA 1900/10mm Device Left - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.320 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Left - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.813 V/m; **Power Drift = 0.169 dB**

Averaged SAR: SAR(1g) = 0.263 W/kg; SAR(10g) = 0.145 W/kg
Maximum value of SAR (interpolated) = 0.461 W/kg



0 dB = 0.603 W/kg = -2.20 dBW/kg

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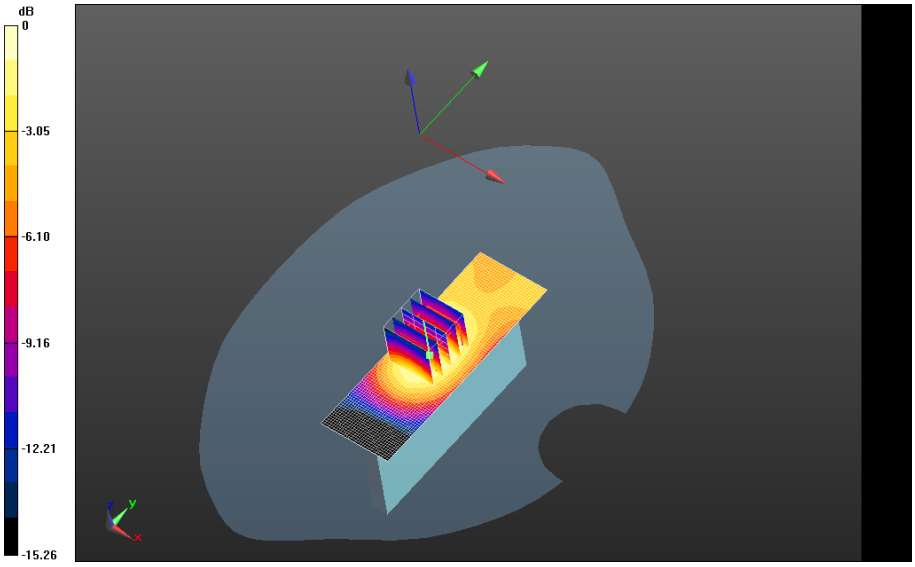
Mobile Hot Spot MSL - CDMA 1900/10mm Device Right - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Area Scan (31x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.111 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Right - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.828 V/m; **Power Drift = -0.00705 dB**

Averaged SAR: SAR(1g) = 0.0929 W/kg; SAR(10g) = 0.0562 W/kg
Maximum value of SAR (interpolated) = 0.150 W/kg



0 dB = 0.327 W/kg = -4.85 dBW/kg

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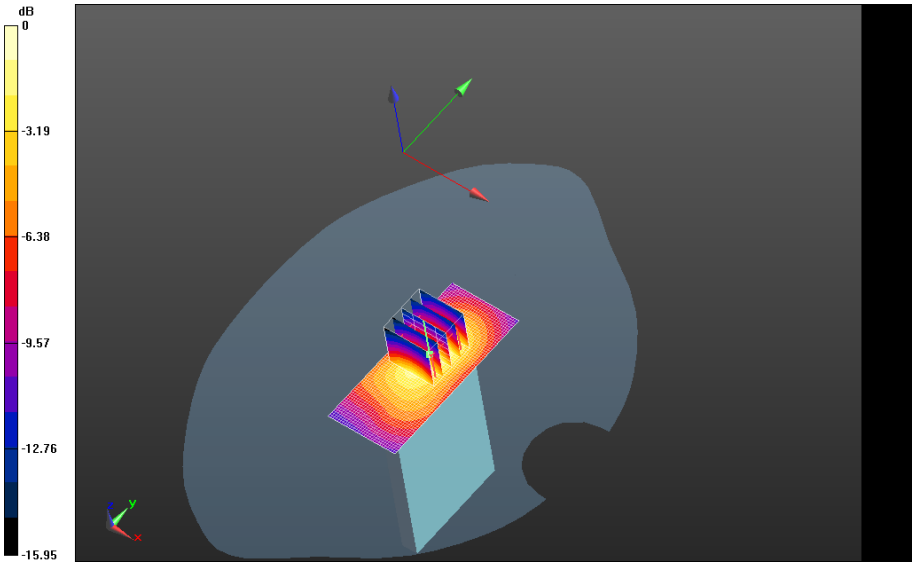
Mobile Hot Spot MSL - CDMA 1900/10mm Device Bottom - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.536 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Bottom - CDMA1900_chan600_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 17.495 V/m; **Power Drift = -0.094 dB**

Averaged SAR: SAR(1g) = 0.441 W/kg; SAR(10g) = 0.243 W/kg
Maximum value of SAR (interpolated) = 0.752 W/kg



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

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Date: 4/25/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

Configuration: Mobile Hot Spot MSL - CDMA 1900

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS;
Frequency: 1908.5 MHz
Medium Parameters used: f=1908.5 MHz; σ = 1.546 S/m; ε_r = 50.736; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back-2100mA - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

Mobile Hot Spot MSL - CDMA 1900/10mm Device Back-2100mA - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.694 V/m; **Power Drift = 0.102 dB**

Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.603 W/kg
Maximum value of SAR (interpolated) = 1.77 W/kg

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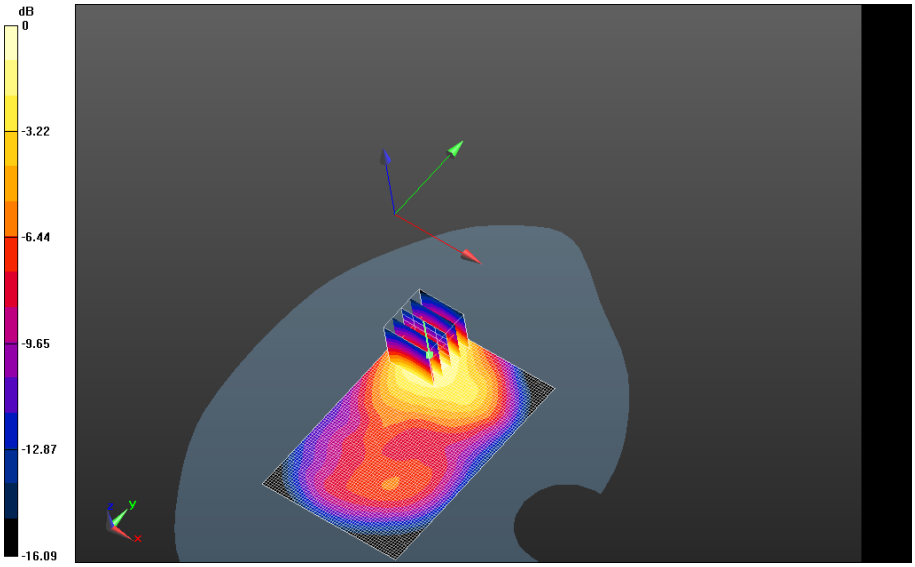

0 dB = 1.29 W/kg = 1.11 dBW/kg

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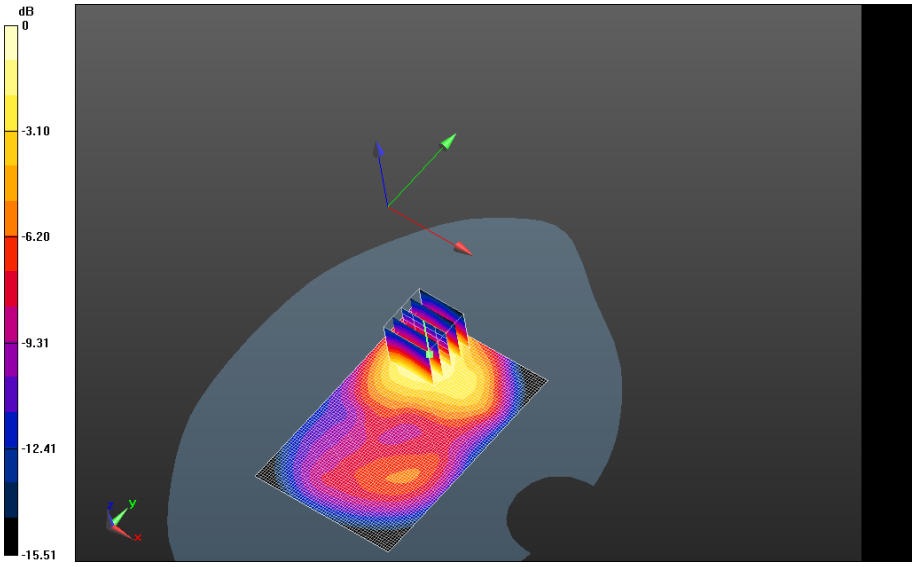
Mobile Hot Spot MSL - CDMA 1900/Headset 10mm Device Back - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Mobile Hot Spot MSL - CDMA 1900/Headset 10mm Device Back - CDMA1900_chan1175_amb_temp_23.2C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.397 V/m; **Power Drift = -0.070 dB**

Averaged SAR: SAR(1g) = 0.893 W/kg; SAR(10g) = 0.513 W/kg
Maximum value of SAR (interpolated) = 1.50 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

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802.11b

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Date: 5/1/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 333CB445

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 = 1.917 S/m; ε_r = 50.561; 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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.1C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.542 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Back - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 6.430 V/m; **Power Drift = -0.013 dB**

Averaged SAR: SAR(1g) = 0.432 W/kg; SAR(10g) = 0.194 W/kg
Maximum value of SAR (interpolated) = 0.941 W/kg

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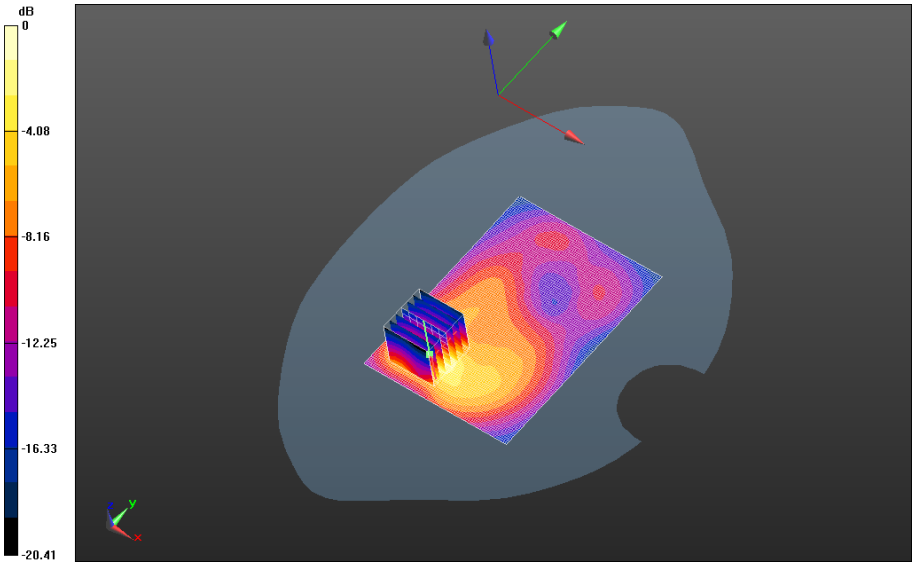

0 dB = 0.551 W/kg = -2.59 dBW/kg

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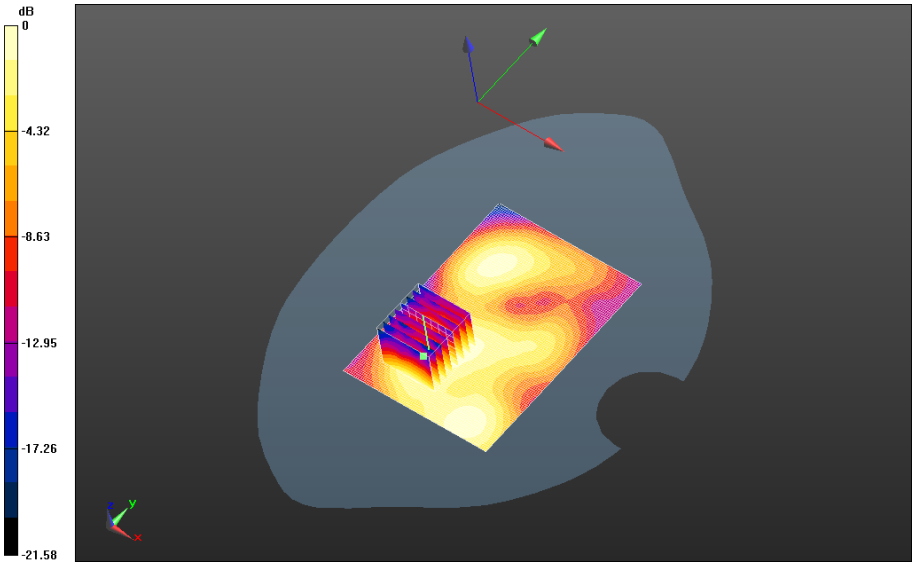
Mobile Hot Spot MSL - 802.11b/10mm Device Front - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.1C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0527 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Front - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan (36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 3.084 V/m; **Power Drift = 0.098 dB**

Averaged SAR: SAR(1g) = 0.0418 W/kg; SAR(10g) = 0.0252 W/kg
Maximum value of SAR (interpolated) = 0.0728 W/kg



0 dB = 0.551 W/kg = -2.59 dBW/kg

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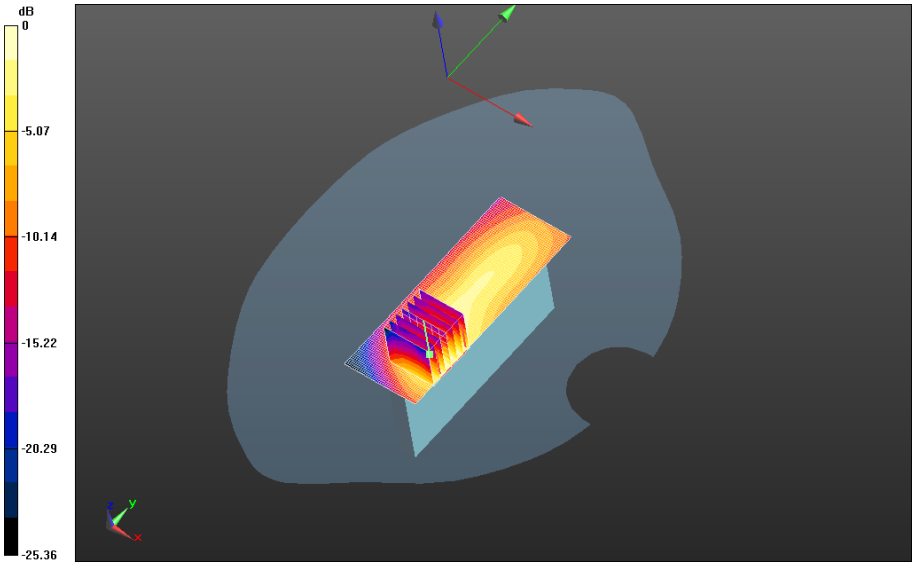
Mobile Hot Spot MSL - 802.11b/10mm Device Left - 802.11b_chan6_amb_temp_23.4C_liq_temp_21.5C/Area Scan (41x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.141 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Left - 802.11b_chan6_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 6.199 V/m; **Power Drift = 0.165 dB**

Averaged SAR: SAR(1g) = 0.114 W/kg; SAR(10g) = 0.0590 W/kg
Maximum value of SAR (interpolated) = 0.224 W/kg



0 dB = 0.0502 W/kg = -12.99 dBW/kg

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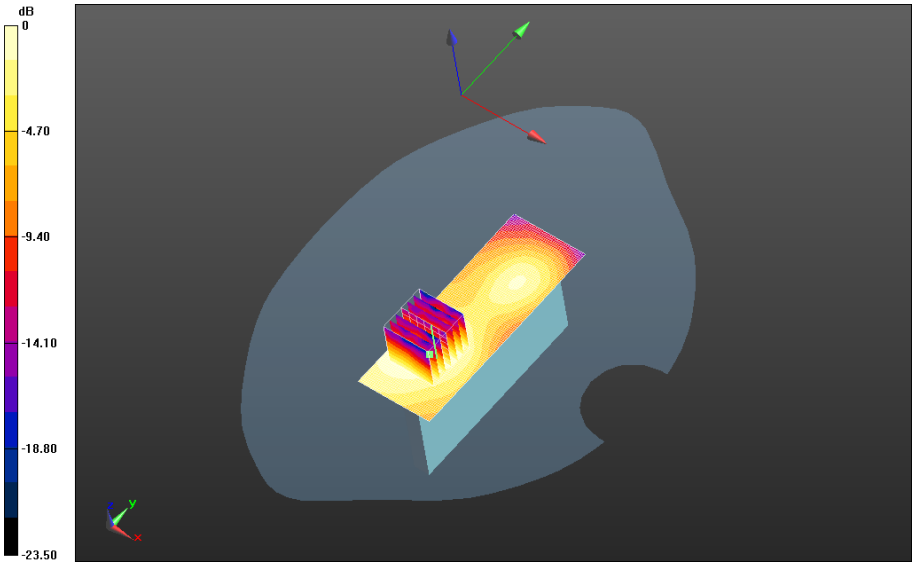
Mobile Hot Spot MSL - 802.11b/10mm Device Right - 802.11b_chan6_amb_temp_23.5C_liq_temp_21.4C/Area Scan (41x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0460 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Right - 802.11b_chan6_amb_temp_23.5C_liq_temp_21.4C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 3.089 V/m; **Power Drift = -0.089 dB**

Averaged SAR: SAR(1g) = 0.0370 W/kg; SAR(10g) = 0.0214 W/kg
Maximum value of SAR (interpolated) = 0.0668 W/kg



0 dB = 0.143 W/kg = -8.45 dBW/kg

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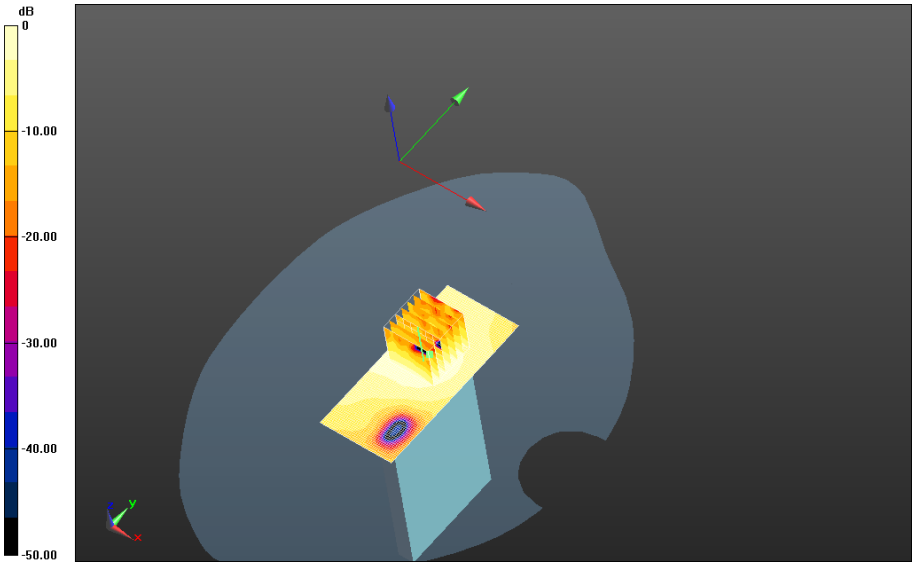
Mobile Hot Spot MSL - 802.11b/10mm Device Bottom - 802.11b_chan6_amb_temp_23.9C_liq_temp_21.8C/Area Scan (41x91x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0202 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Bottom - 802.11b_chan6_amb_temp_23.9C_liq_temp_21.8C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.720 V/m; **Power Drift = -0.180 dB**

Averaged SAR: SAR(1g) = 0.0167 W/kg; SAR(10g) = 0.00945 W/kg
Maximum value of SAR (interpolated) = 0.0305 W/kg



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

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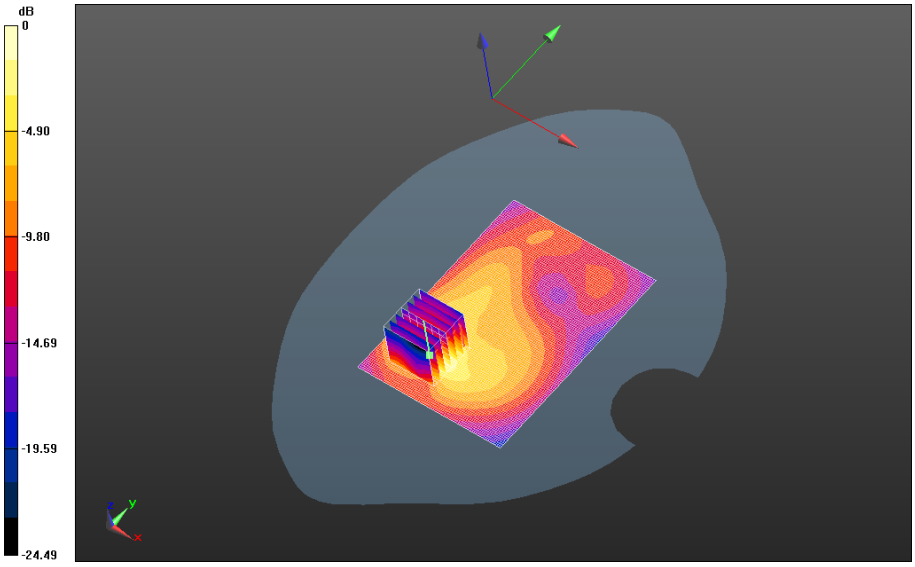
Mobile Hot Spot MSL - 802.11b/Headset 10mm Device Back - 802.11b_chan6_amb_temp_23.3C_liq_temp_21.4C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.373 W/kg

Mobile Hot Spot MSL - 802.11b/Headset 10mm Device Back - 802.11b_chan6_amb_temp_23.3C_liq_temp_21.4C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 6.164 V/m; **Power Drift = 0.136 dB**

Averaged SAR: SAR(1g) = 0.300 W/kg; SAR(10g) = 0.137 W/kg
Maximum value of SAR (interpolated) = 0.657 W/kg



0 dB = 0.0209 W/kg = -16.80 dBW/kg

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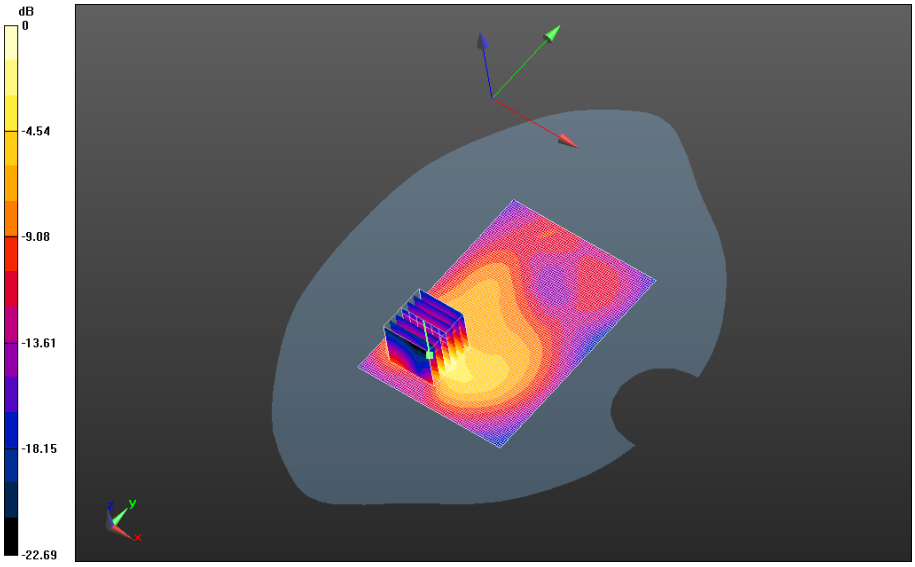
Mobile Hot Spot MSL - 802.11b/10mm Device Back+2100mA - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.1C/Area Scan (81x111x1):
Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.639 W/kg

Mobile Hot Spot MSL - 802.11b/10mm Device Back+2100mA - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.1C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 7.627 V/m; **Power Drift = 0.013 dB**

Averaged SAR: SAR(1g) = 0.472 W/kg; SAR(10g) = 0.211 W/kg
Maximum value of SAR (interpolated) = 1.04 W/kg



0 dB = 0.405 W/kg = -3.93 dBW/kg

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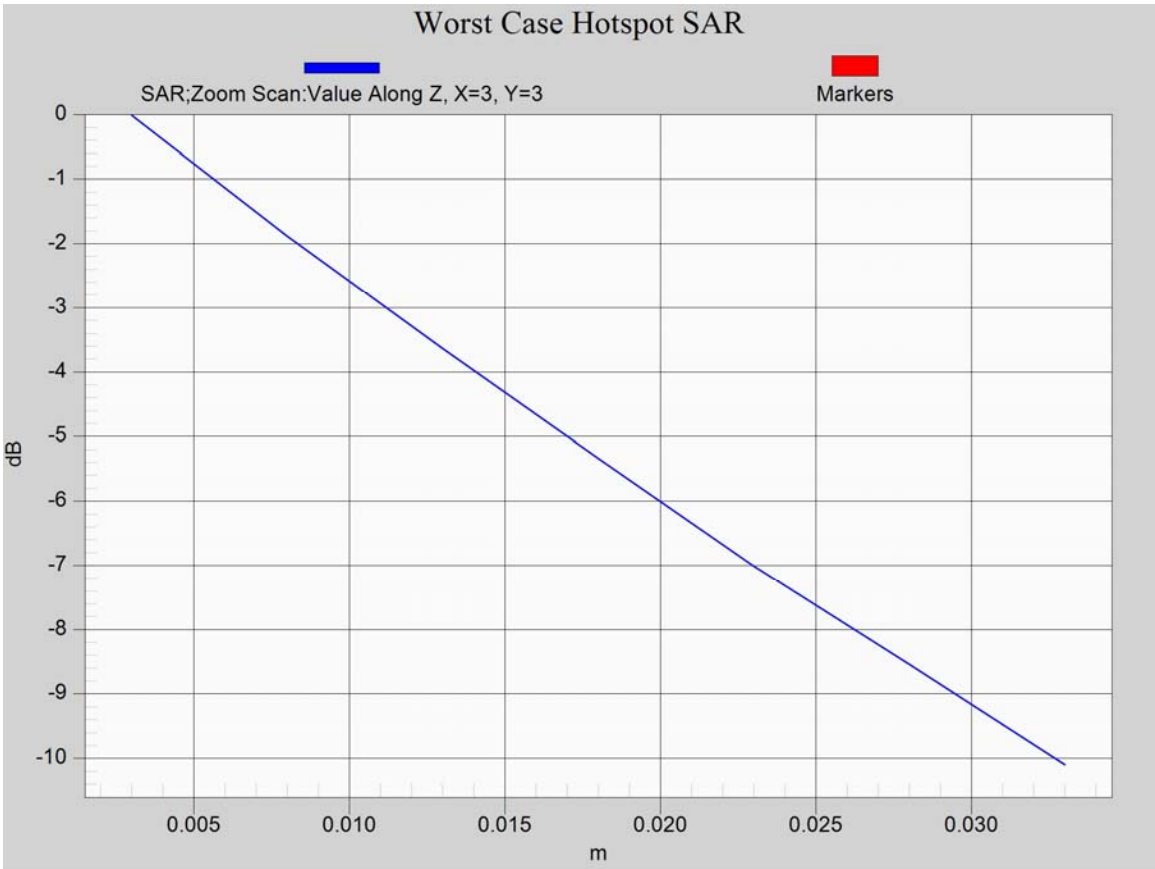
Z axis plot for the worst case hot spot configuration



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Date: 12/12/2014

Test Lab: BlackBerry RTS
DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E5CB6

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 = 5.561 S/m; ε_r = 45.712; 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_24.0C_Liquid_Temp_22.2C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.58 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Back - 802.11a_chan36_low_band_Amb_Temp_24.0C_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 = 2.270 V/m; **Power Drift = 0.158 dB**

Averaged SAR: SAR(1g) = 0.727 W/kg; SAR(10g) = 0.212 W/kg
Maximum value of SAR (interpolated) = 2.98 W/kg

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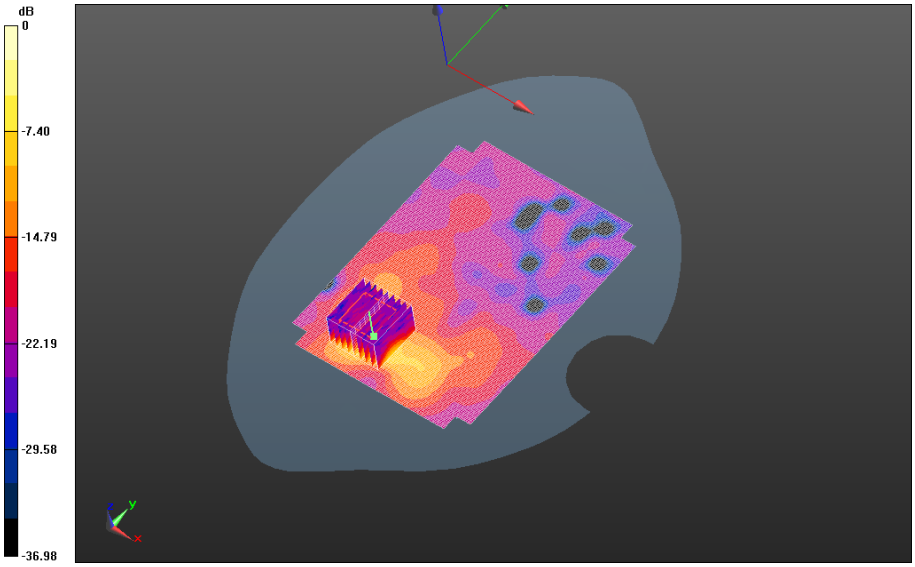

0 dB = 1.46 W/kg = 1.64 dBW/kg

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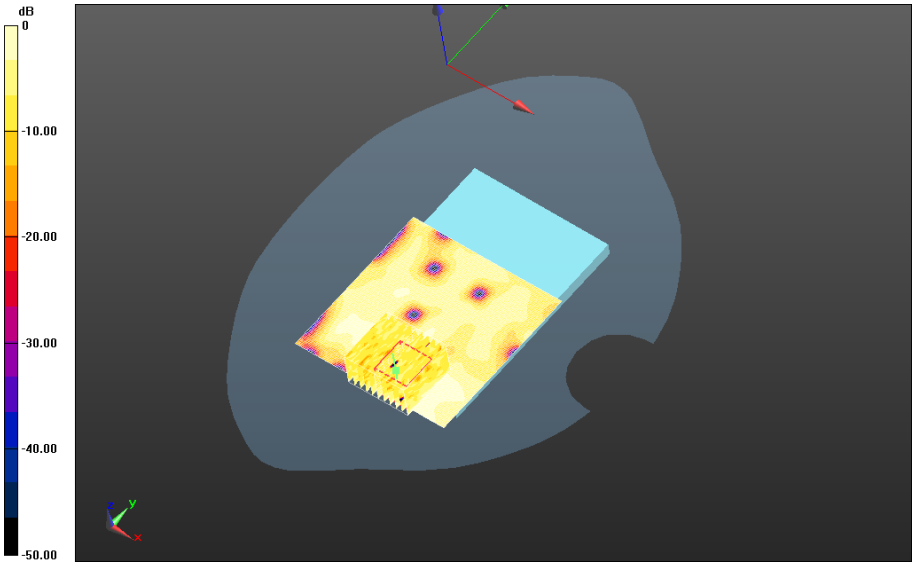
Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Front - 802.11a_chan36_low_band_Amb_Temp_23.9C_Liquid_Temp_22.1C/Area Scan (101x101x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0424 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Front - 802.11a_chan36_low_band_Amb_Temp_23.9C_Liquid_Temp_22.1C/Zoom Scan (51x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.051 V/m; **Power Drift = 0.305 dB**

Averaged SAR: SAR(1g) = 0.0203 W/kg; SAR(10g) = 0.0109 W/kg
Maximum value of SAR (interpolated) = 0.0747 W/kg



0 dB = 0.0335 W/kg = -14.75 dBW/kg

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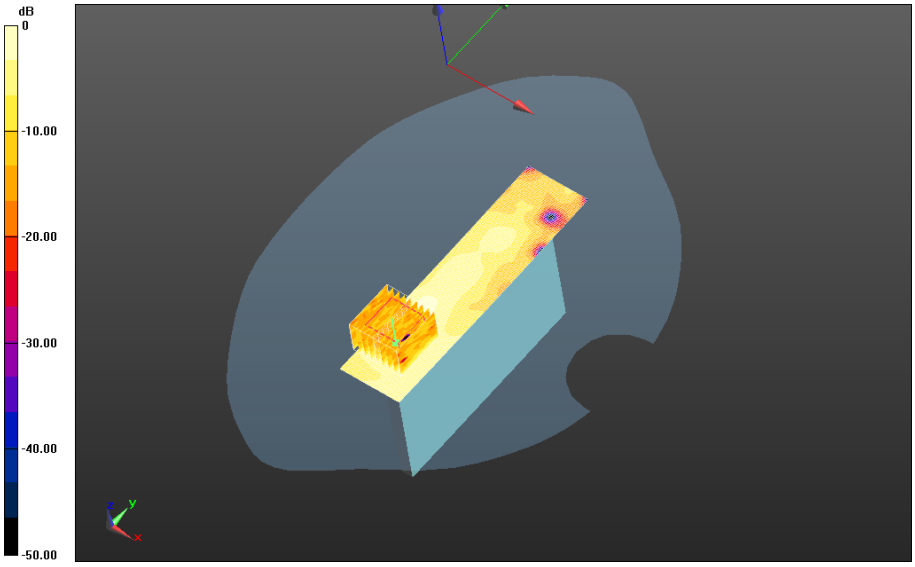
Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Left - 802.11a_chan36_low_band_Amb_Temp_23.9C_Liquid_Temp_22.1C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.137 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Left - 802.11a_chan36_low_band_Amb_Temp_23.9C_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 = 2.851 V/m; **Power Drift = 0.527 dB**

Averaged SAR: SAR(1g) = 0.0682 W/kg; SAR(10g) = 0.0276 W/kg
Maximum value of SAR (interpolated) = 0.245 W/kg



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

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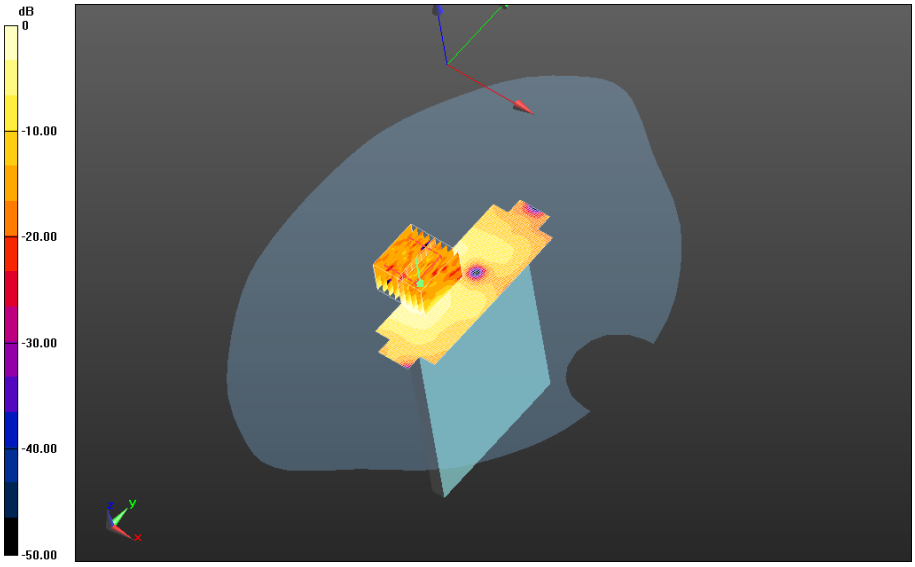
Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Top - 802.11a_chan36_low_band_Amb_Temp_23.5C_Liquid_Temp_22.0C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.207 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Top - 802.11a_chan36_low_band_Amb_Temp_23.5C_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 = 1.831 V/m; **Power Drift = -0.064 dB**

Averaged SAR: SAR(1g) = 0.117 W/kg; SAR(10g) = 0.0439 W/kg
Maximum value of SAR (interpolated) = 0.480 W/kg



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

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Date: 12/12/2014

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E5CB6

Configuration: Mobile Hotspot MSL - 802.11a 5800 MHz

Communication System: 802.11a (0); Communication System Band: Upper Band; Frequency: 5745 MHz

Medium Parameters used: f=5745 MHz; σ = 6.402 S/m; ε_r = 44.445; 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_23.2C_Liquid_Temp_22.1C/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.2C_Liquid_Temp_22.1C/Zoom Scan (31x31x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 1.935 V/m; **Power Drift = -0.029 dB**

Averaged SAR: SAR(1g) = 0.531 W/kg; SAR(10g) = 0.164 W/kg

Maximum value of SAR (interpolated) = 2.44 W/kg

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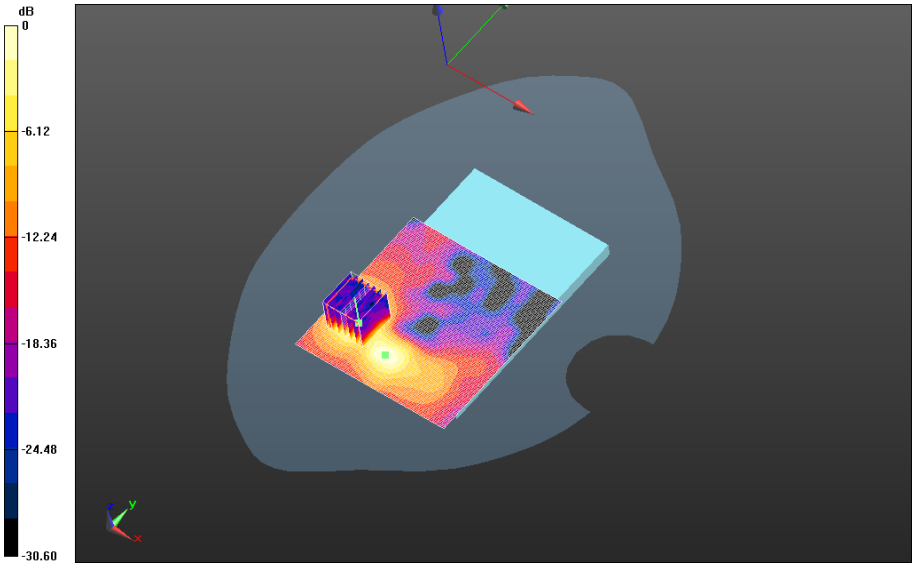

0 dB = 1.05 W/kg = 0.21 dBW/kg

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