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APPENDIX C2: SAR DISTRIBUTION PLOTS FOR MOBILE HOT SPOT

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Date/Time: 9/21/2012 3:13:19 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_GPRS850_mid_chan_amb_temp_23.5_liq_t
emp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.976$ mho/m; $\epsilon_r = 54.207$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.858 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.973 V/m; Power Drift = -0.04 dB

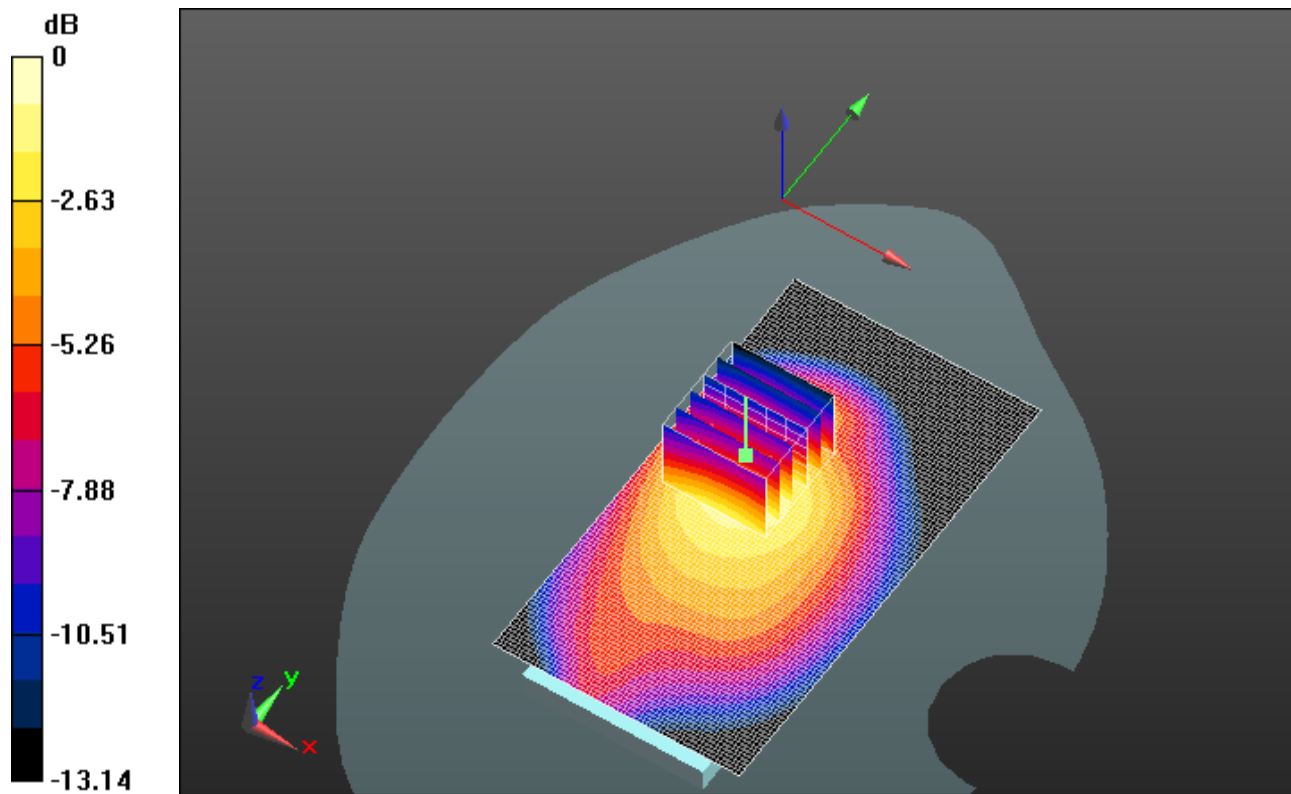
Peak SAR (extrapolated) = 1.1650

SAR(1 g) = 0.732 mW/g; SAR(10 g) = 0.471 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.871 mW/g

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0 dB = 0.870mW/g = -1.21 dB mW/g

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Date/Time: 9/24/2012 11:27:53 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Front_GPRS850_mid_chan_amb_temp_24.0_liq_t
emp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.965$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.759 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.116 V/m; Power Drift = -0.03 dB

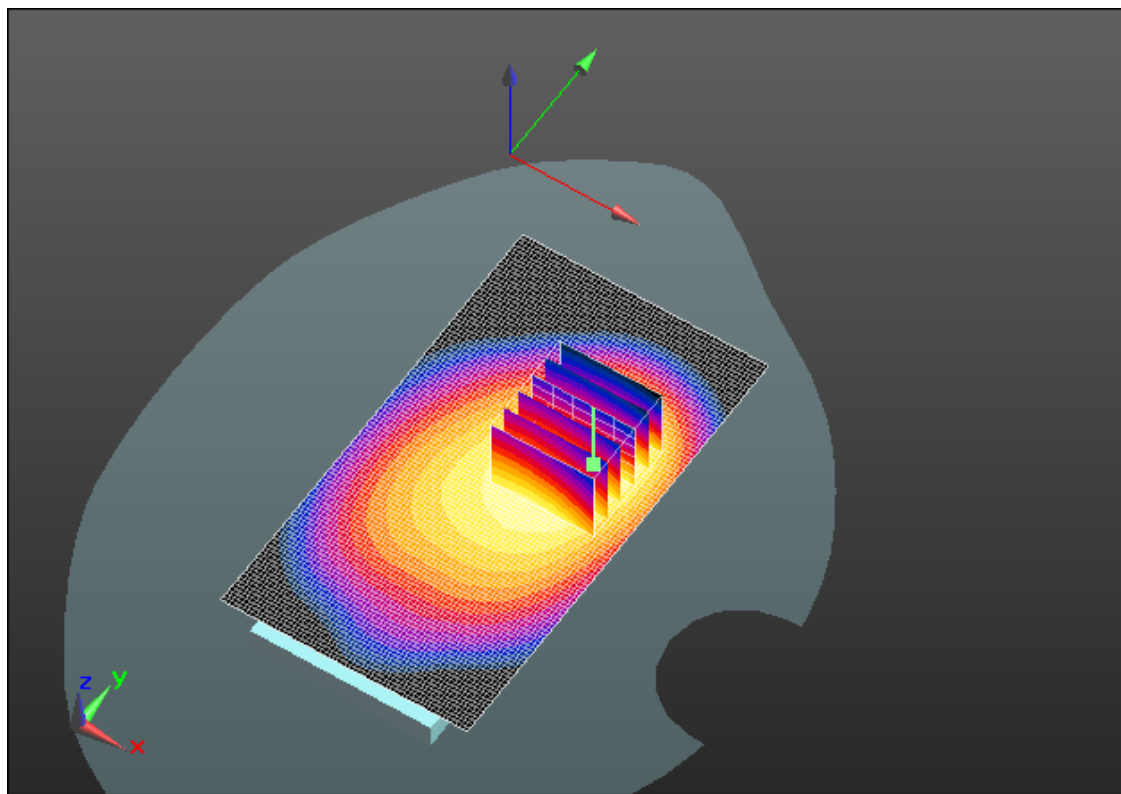
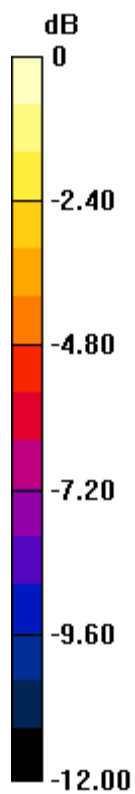
Peak SAR (extrapolated) = 0.9360

SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.443 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.735 mW/g

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0 dB = 0.740mW/g = -2.62 dB mW/g

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Date/Time: 9/24/2012 3:21:01 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Left_GPRS850_mid_chan_amb_temp_24.2C_liq_t
emp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A781058

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.965$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.331 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.338 V/m; Power Drift = -0.08 dB

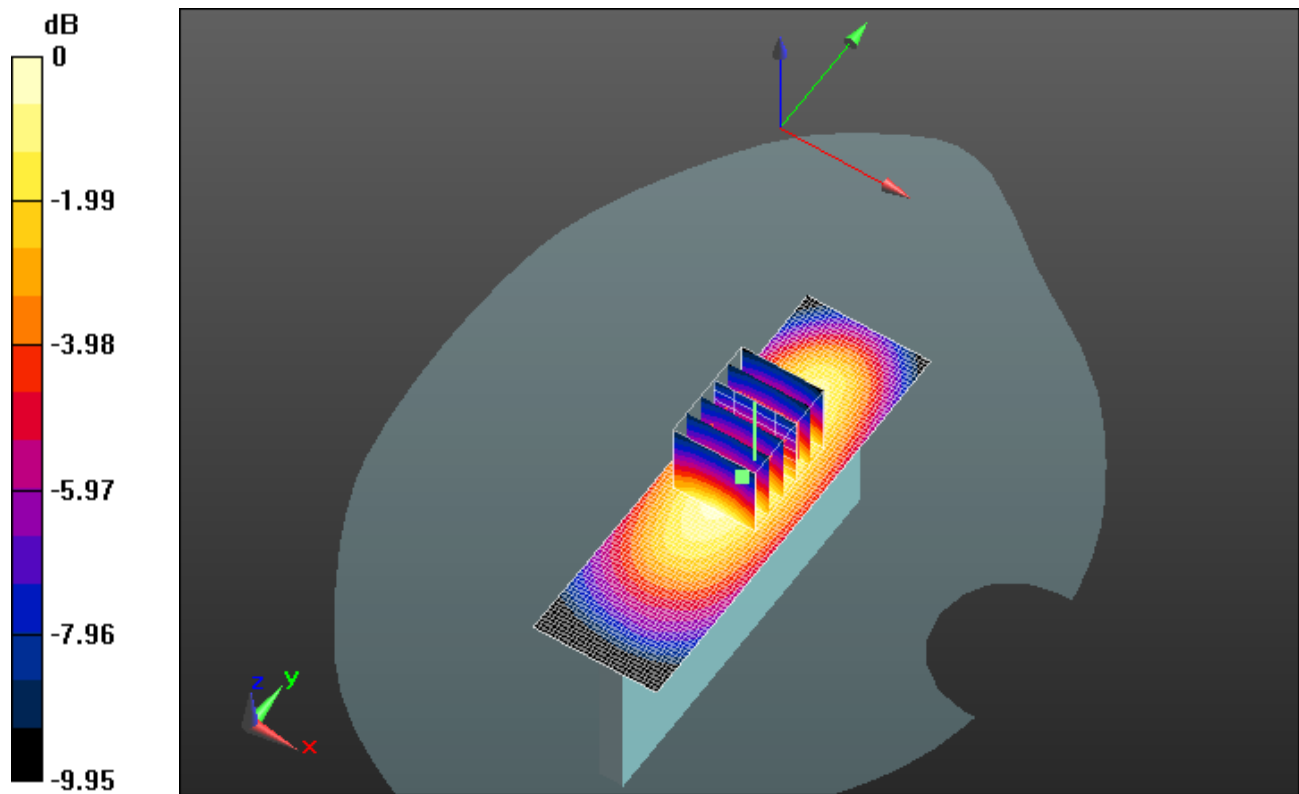
Peak SAR (extrapolated) = 0.4260

SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.199 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.341 mW/g

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0 dB = 0.340mW/g = -9.37 dB mW/g

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Date/Time: 9/24/2012 3:40:49 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Right_GPRS850_mid_chan_amb_temp_24.4C_liq
_temp_22.4C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A781058

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.965$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.391 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.363 V/m; Power Drift = 0.03 dB

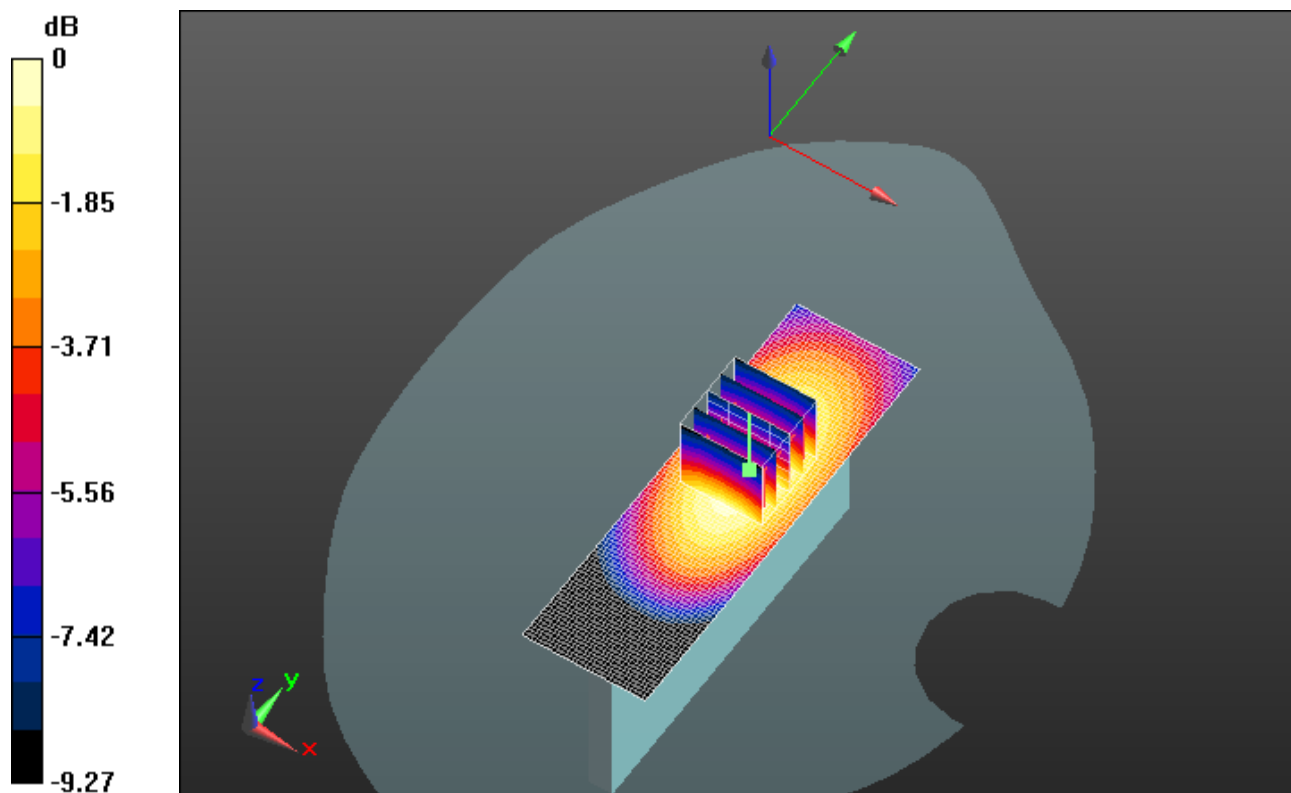
Peak SAR (extrapolated) = 0.4790

SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.238 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.392 mW/g

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0 dB = 0.390mW/g = -8.18 dB mW/g

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Date/Time: 9/24/2012 2:06:41 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_GPRS850_mid_chan_amb_temp_24.5_liq
_temp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.965$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.102 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.661 V/m; Power Drift = -0.03 dB

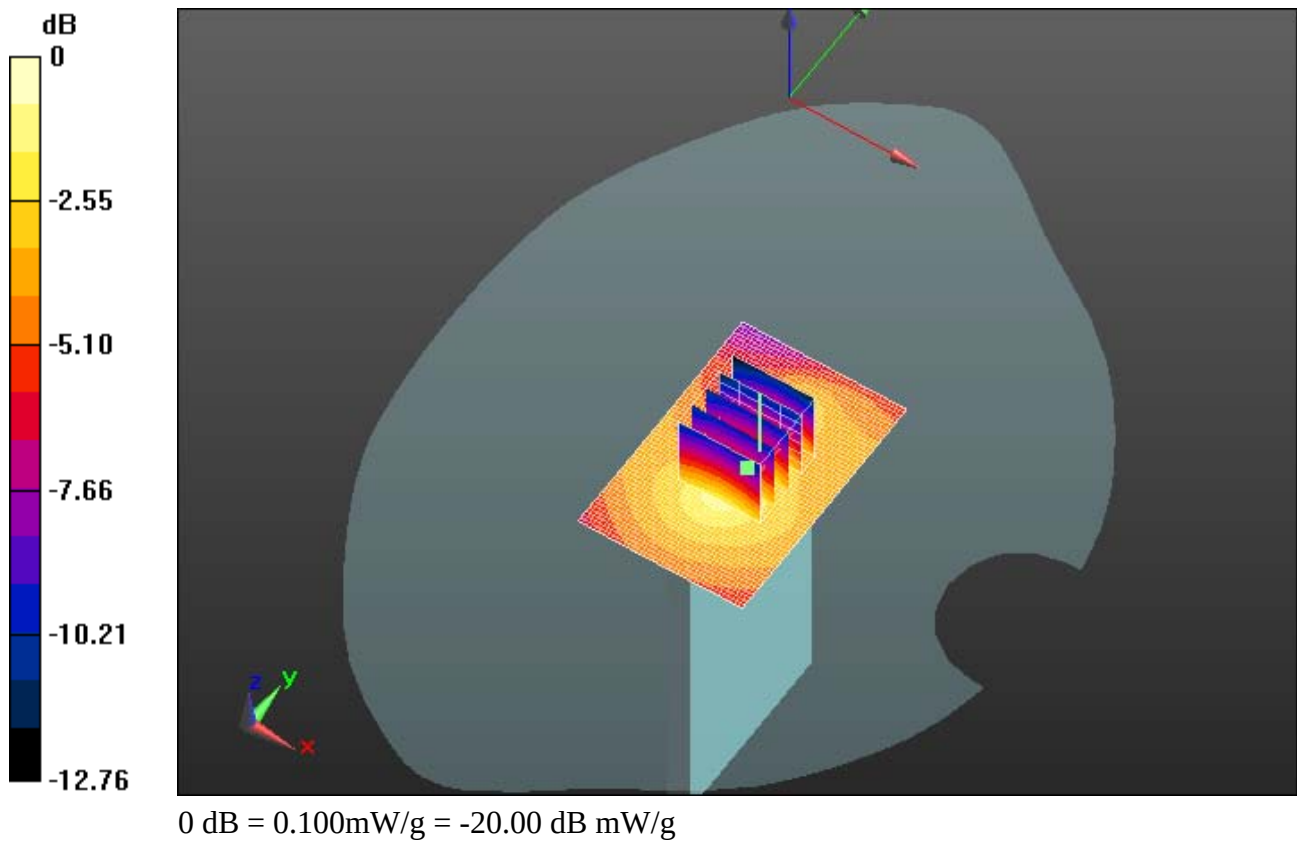
Peak SAR (extrapolated) = 0.1430

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.048 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.104 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW

Date/Time: 9/24/2012 4:56:23 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_Headset_GPRS850_mid_chan_amb_temp_24.3_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.949 \text{ mho/m}$; $\epsilon_r = 52.965$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.918 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.550 V/m; Power Drift = -0.13 dB

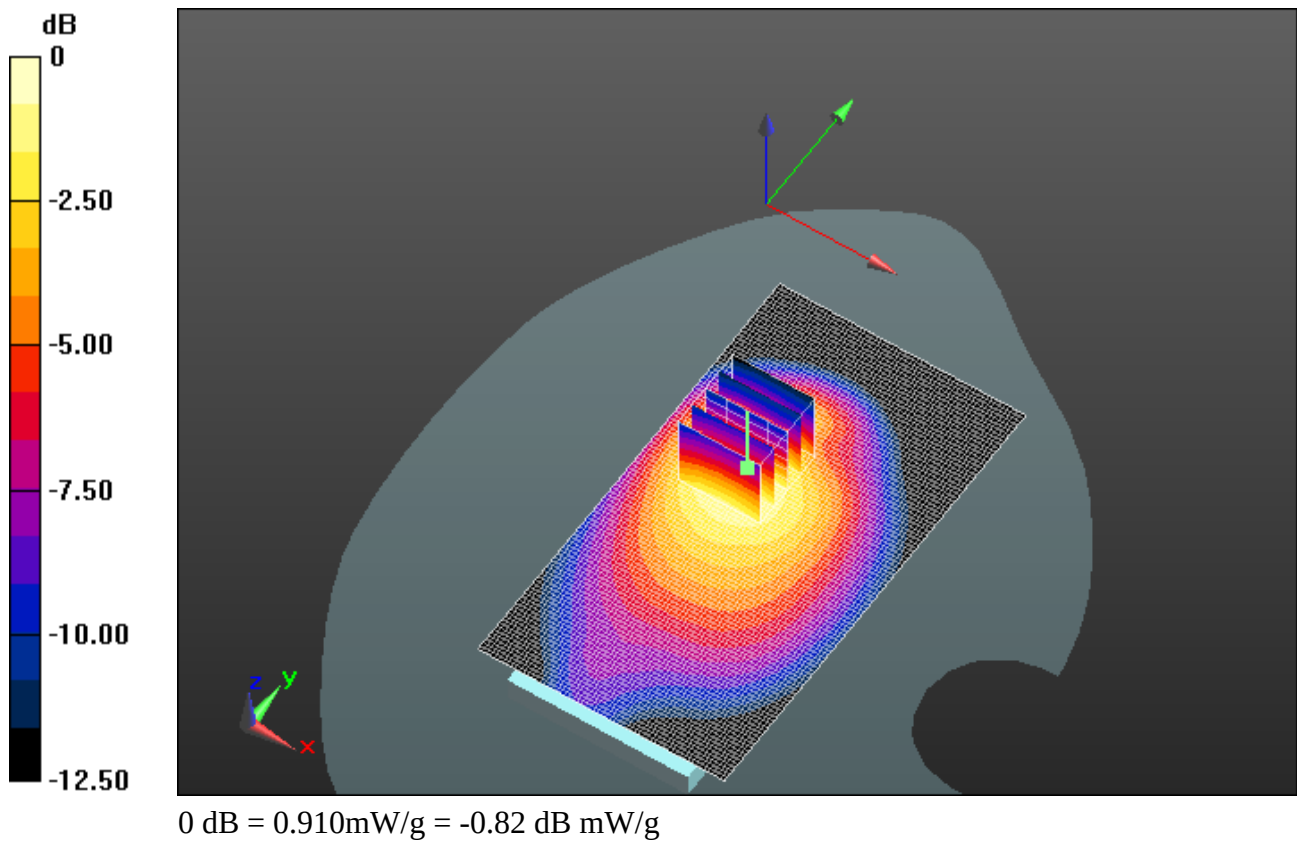
Peak SAR (extrapolated) = 1.2250

SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.499 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.911 mW/g

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Date/Time: 9/24/2012 6:39:11 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_Headset_GPRS850_3slots_low_chan_amb_
temp_23.9_liq_temp_22.2C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: GPRS 850 (3 slots); Frequency: 824.2 MHz

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.942 \text{ mho/m}$; $\epsilon_r = 53.026$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.080 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

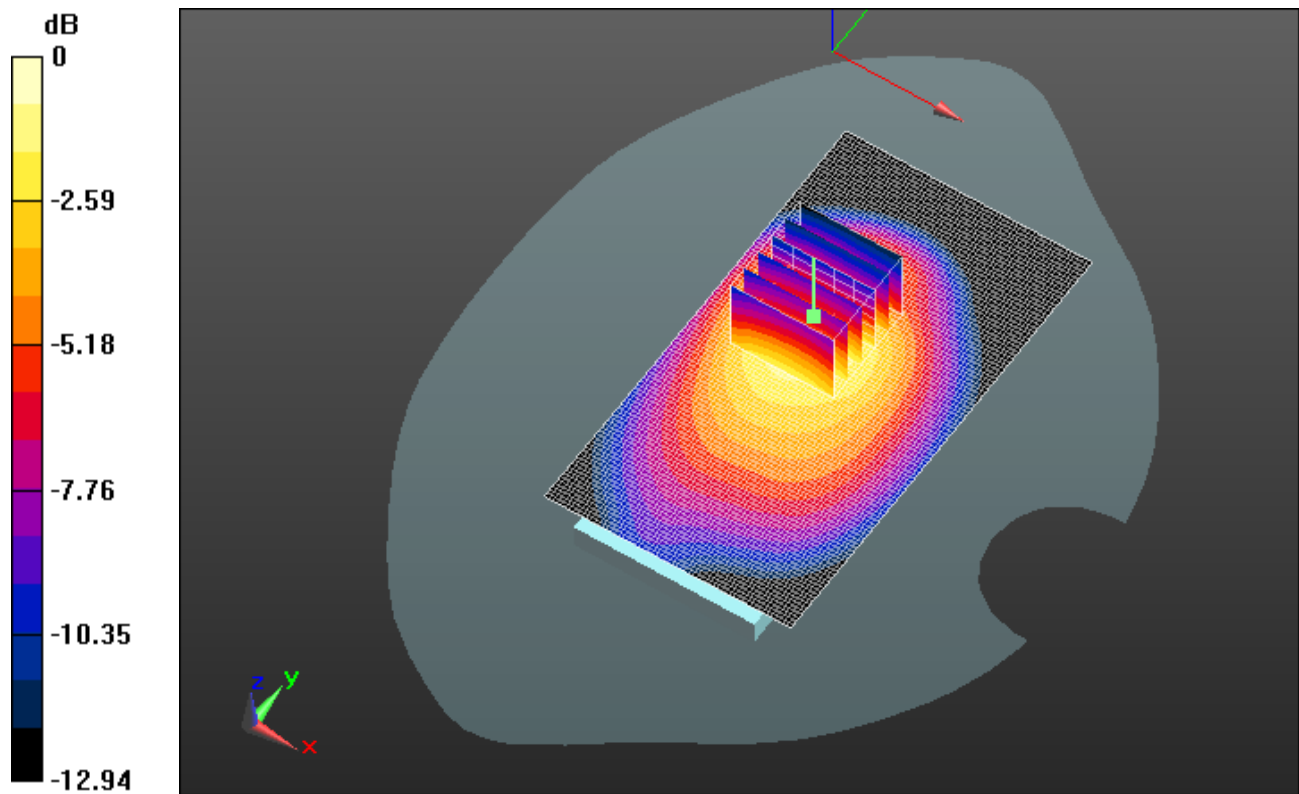
Reference Value = 24.199 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.4130

SAR(1 g) = 0.898 mW/g; SAR(10 g) = 0.581 mW/g

Maximum value of SAR (measured) = 1.056 mW/g

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0 dB = 1.060mW/g = 0.51 dB mW/g

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Date/Time: 9/24/2012 5:15:21 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_Headset_GPRS850_3slots_mid_chan_amb_
temp_24.1_liq_temp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: GPRS 850 (3 slots); Frequency: 836.8 MHz
Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.965$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.064 mW/g

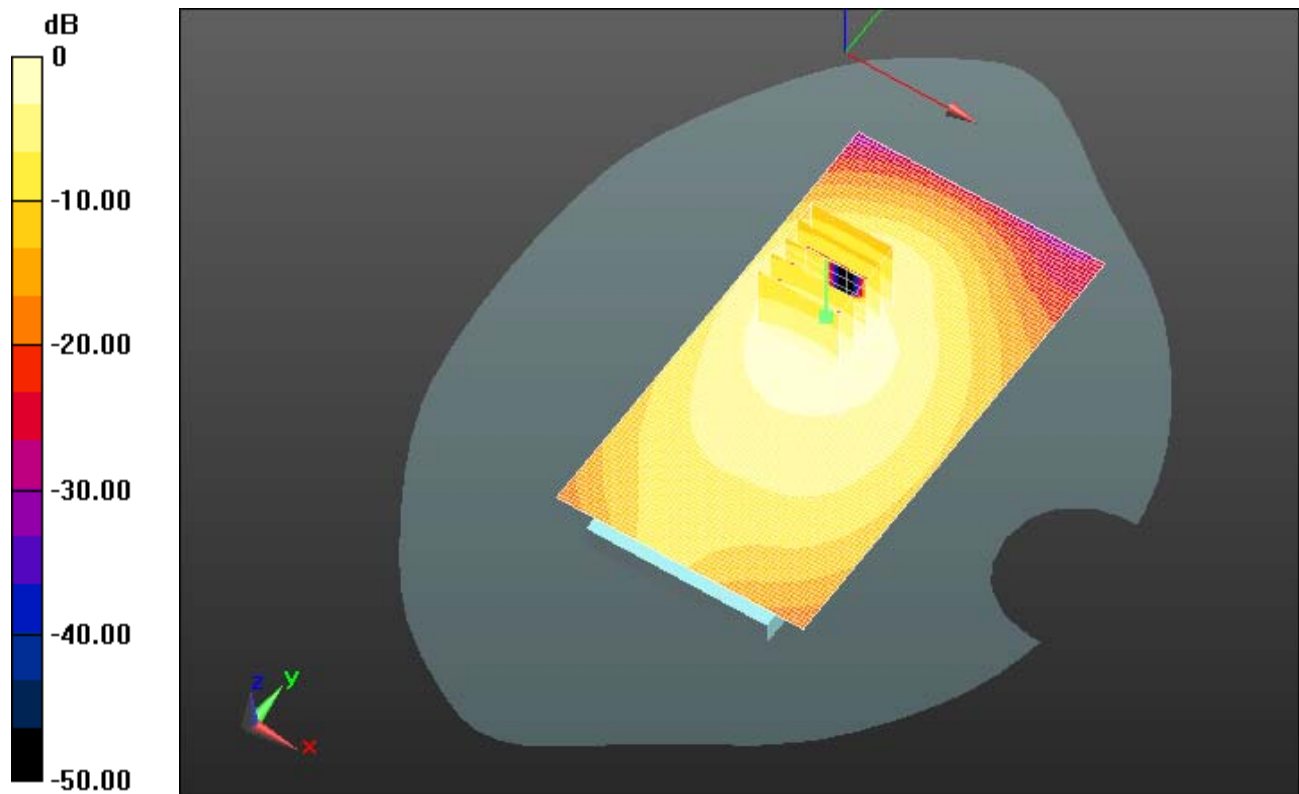
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.184 V/m; Power Drift = 0.26 dB
Peak SAR (extrapolated) = 1.4290
SAR(1 g) = 0.906 mW/g; SAR(10 g) = 0.574 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.055 mW/g

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0 dB = 1.050mW/g = 0.42 dB mW/g

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Date/Time: 9/24/2012 7:03:04 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_Headset_GPRS850_3slots_high_chan_amb
_temp_23.7_liq_temp_22.2C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: GPRS 850 (3 slots); Frequency: 848.8 MHz
Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.957$ mho/m; $\epsilon_r = 52.906$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.087 mW/g

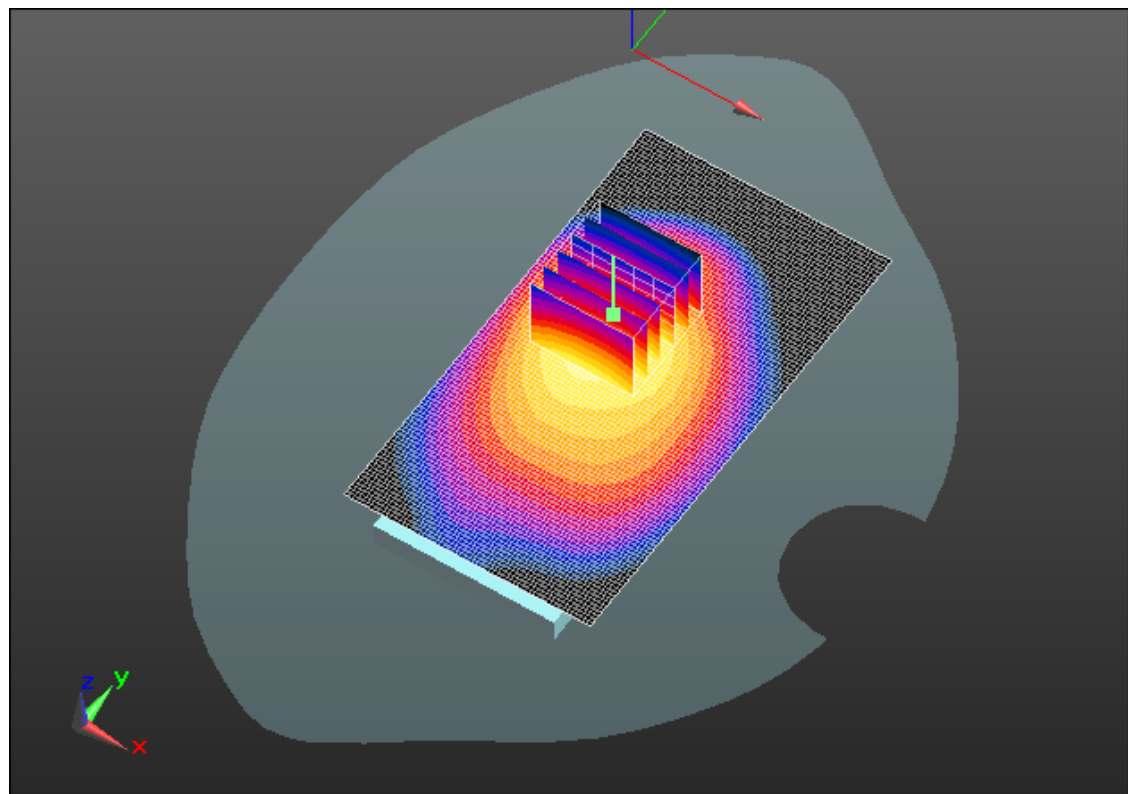
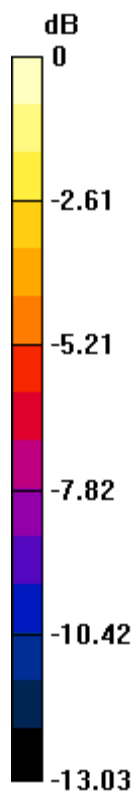
Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.462 V/m; Power Drift = -0.22 dB
Peak SAR (extrapolated) = 1.4360
SAR(1 g) = 0.914 mW/g; SAR(10 g) = 0.593 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.076 mW/g

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0 dB = 1.080mW/g = 0.67 dB mW/g

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Date/Time: 9/24/2012 5:54:57 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_Headset_GPRS850_4slots_mid_chan_amb_
temp_24.3_liq_temp_22.2C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: GPRS 850 (4 slots); Frequency: 836.8 MHz
Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.965$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.843 mW/g

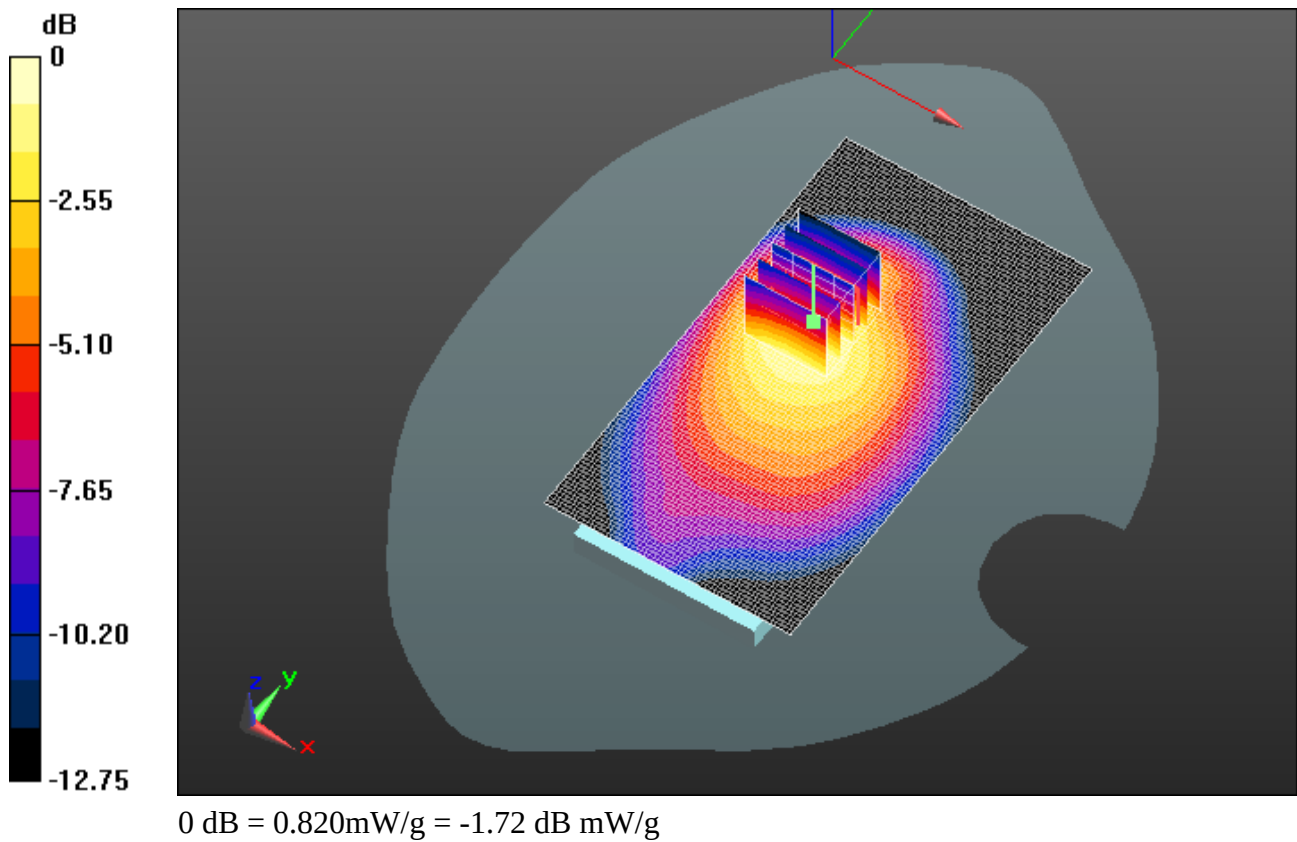
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.955 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.1010
SAR(1 g) = 0.700 mW/g; SAR(10 g) = 0.449 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.817 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW	

Date/Time: 11/1/2012 3:30:14 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_Headset_GPRS850_3slots_high_chan_amb
_temp_23.5_liq_temp_22.1C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 850 (3 slots); Frequency: 848.8 MHz
Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53.366$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.936 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

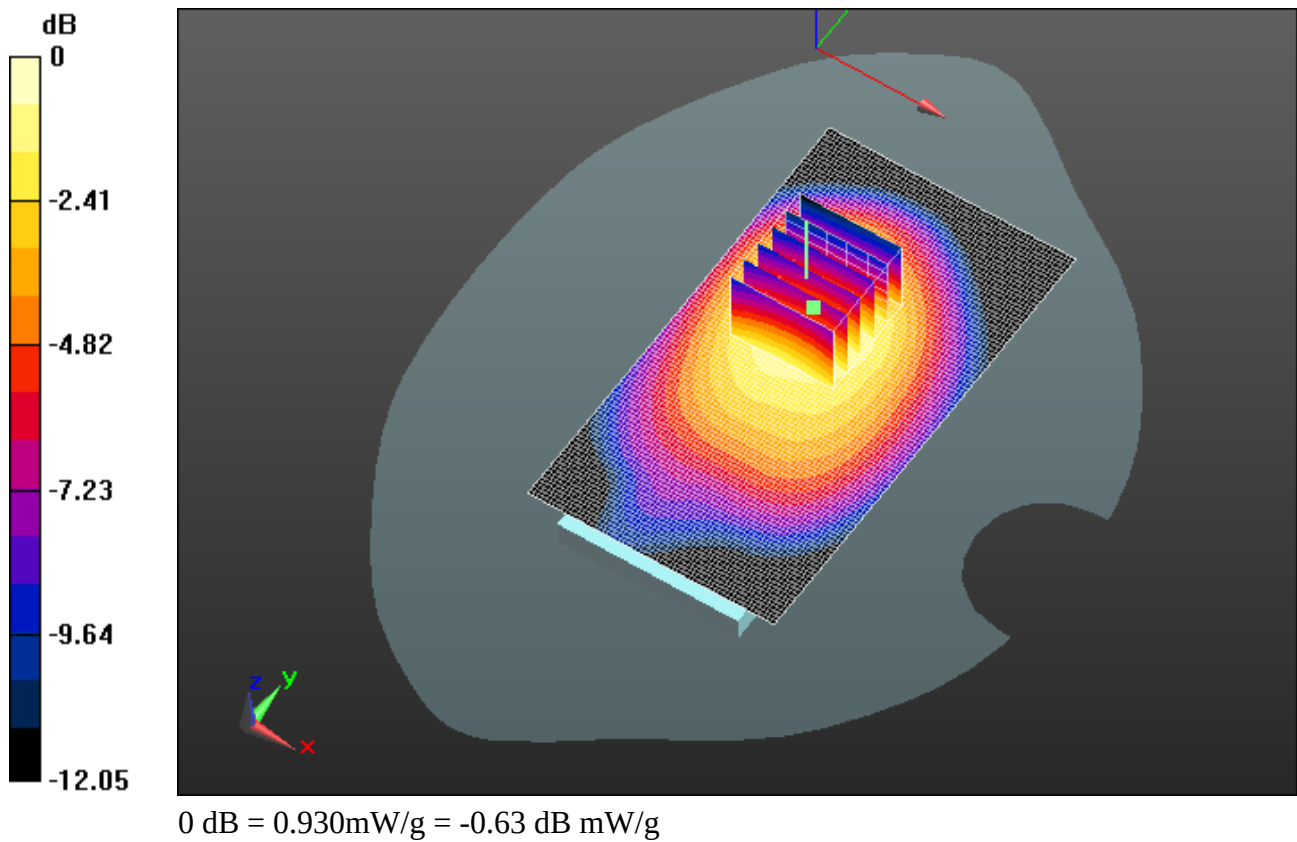
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.821 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.2170

SAR(1 g) = 0.811 mW/g; SAR(10 g) = 0.561 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.928 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW

Date/Time: 9/21/2012 2:45:56 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_UMTS_Band_V_mid_chan_amb_temp_23.8
_liq_temp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 54.209$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.646 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x7x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.505 V/m; Power Drift = 0.01 dB

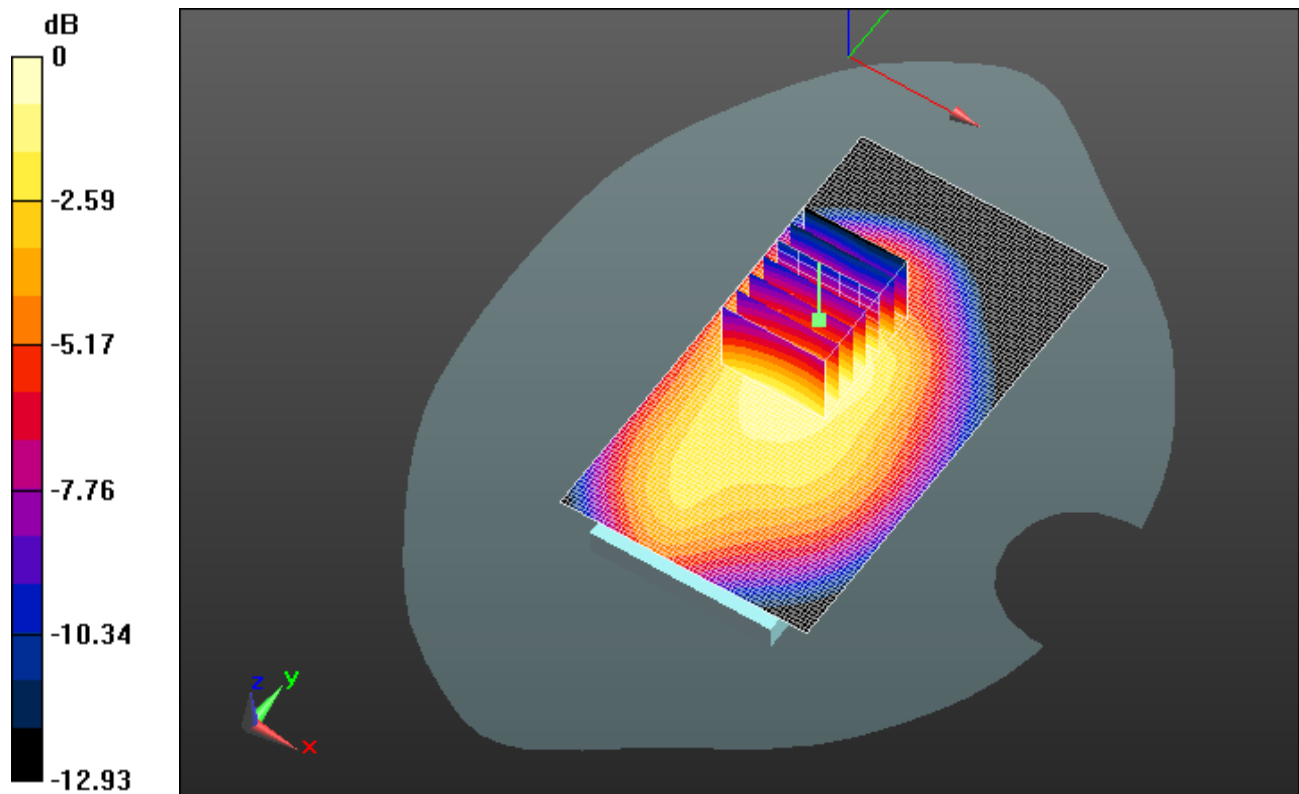
Peak SAR (extrapolated) = 0.8980

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.380 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.656 mW/g

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0 dB = 0.660mW/g = -3.61 dB mW/g

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Date/Time: 9/21/2012 4:58:02 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Front_UMTS_Band_V_mid_chan_amb_temp_23.7
_liq_temp_22.4C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 54.209$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.608 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (8x8x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.439 V/m; Power Drift = 0.05 dB

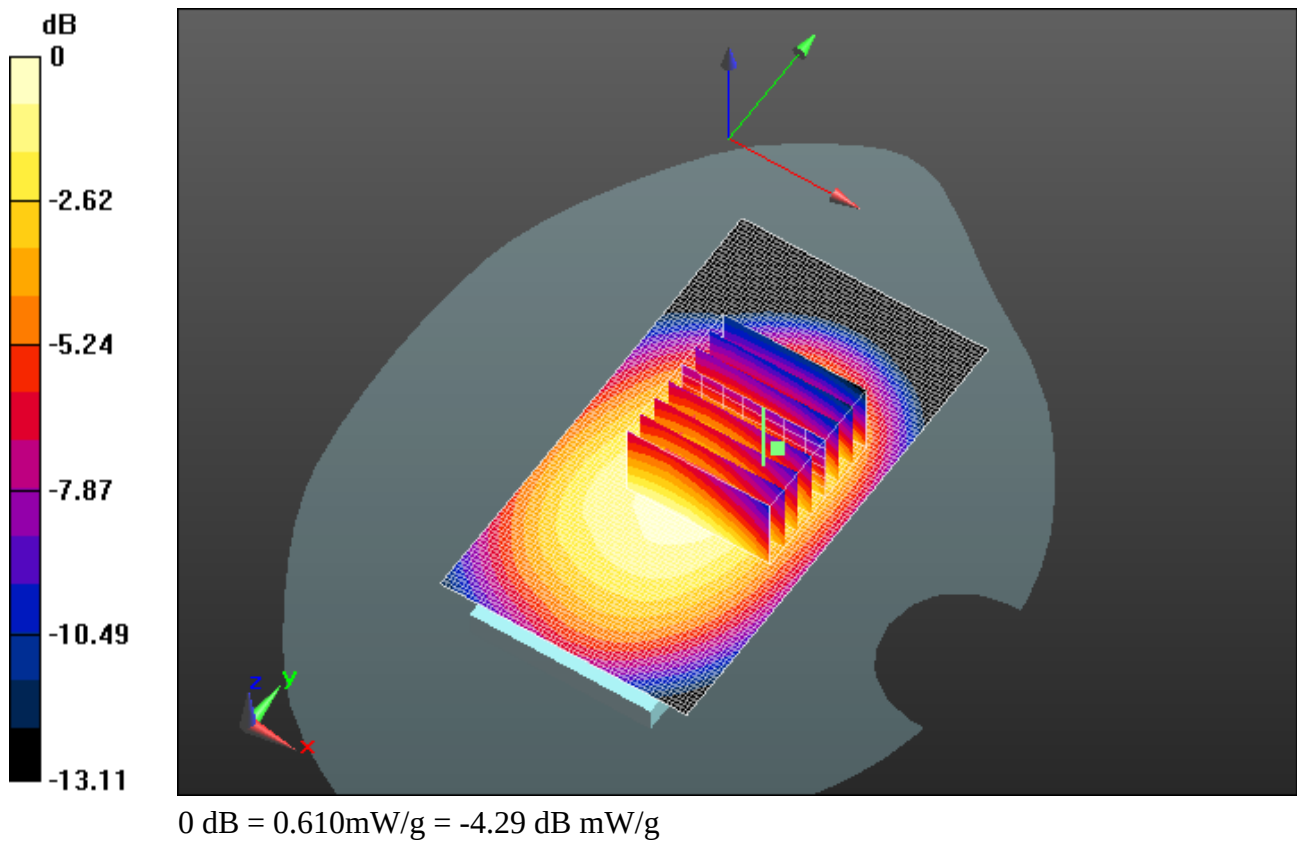
Peak SAR (extrapolated) = 0.7450

SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.407 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.612 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW

Date/Time: 9/24/2012 4:09:07 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Left_UMTS_Band_V_mid_chan_amb_temp_24.4C
_liq_temp_22.3C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A781058

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.967$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.417 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.525 V/m; Power Drift = -0.02 dB

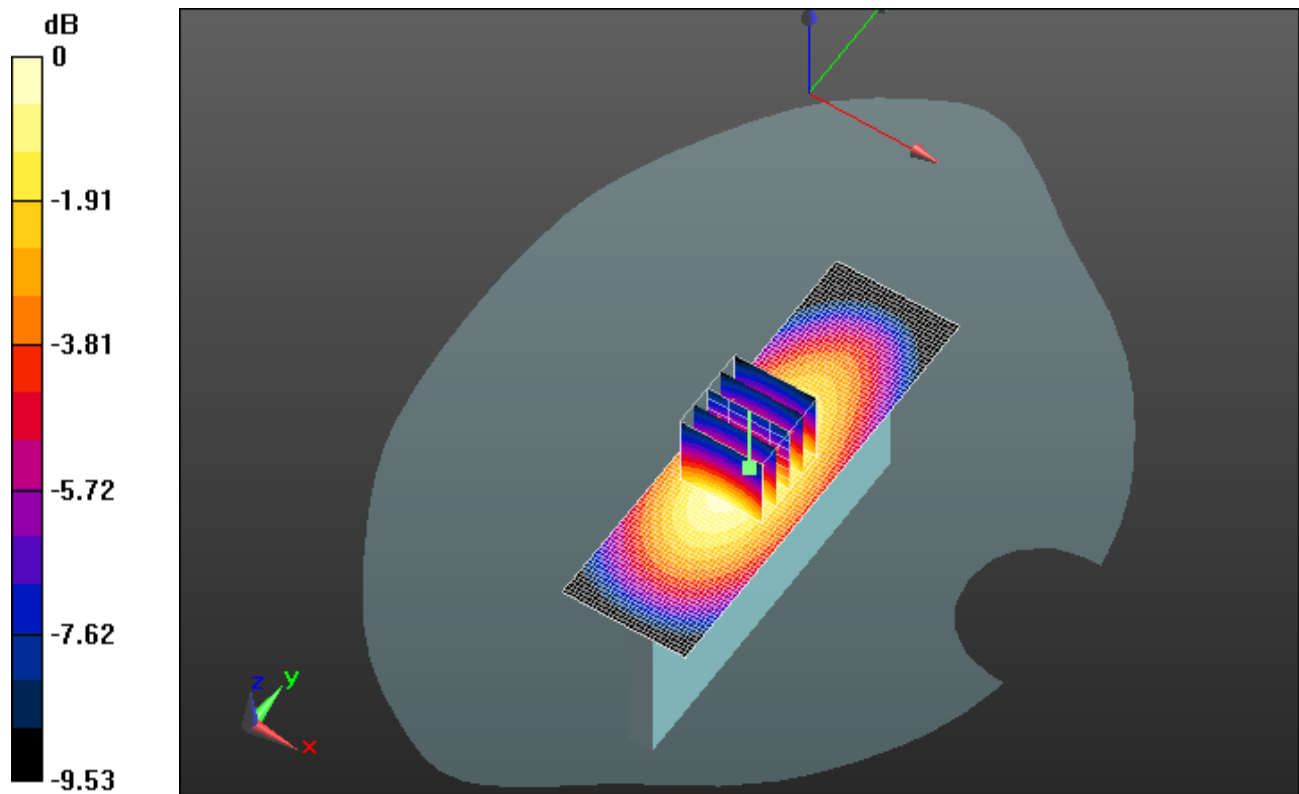
Peak SAR (extrapolated) = 0.5290

SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.253 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.430 mW/g

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0 dB = 0.430mW/g = -7.33 dB mW/g

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Date/Time: 9/24/2012 3:55:10 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Right_UMTS_Band_V_mid_chan_amb_temp_24.4
C_liq_temp_22.3C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A781058

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.967$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.505 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.963 V/m; Power Drift = 0.06 dB

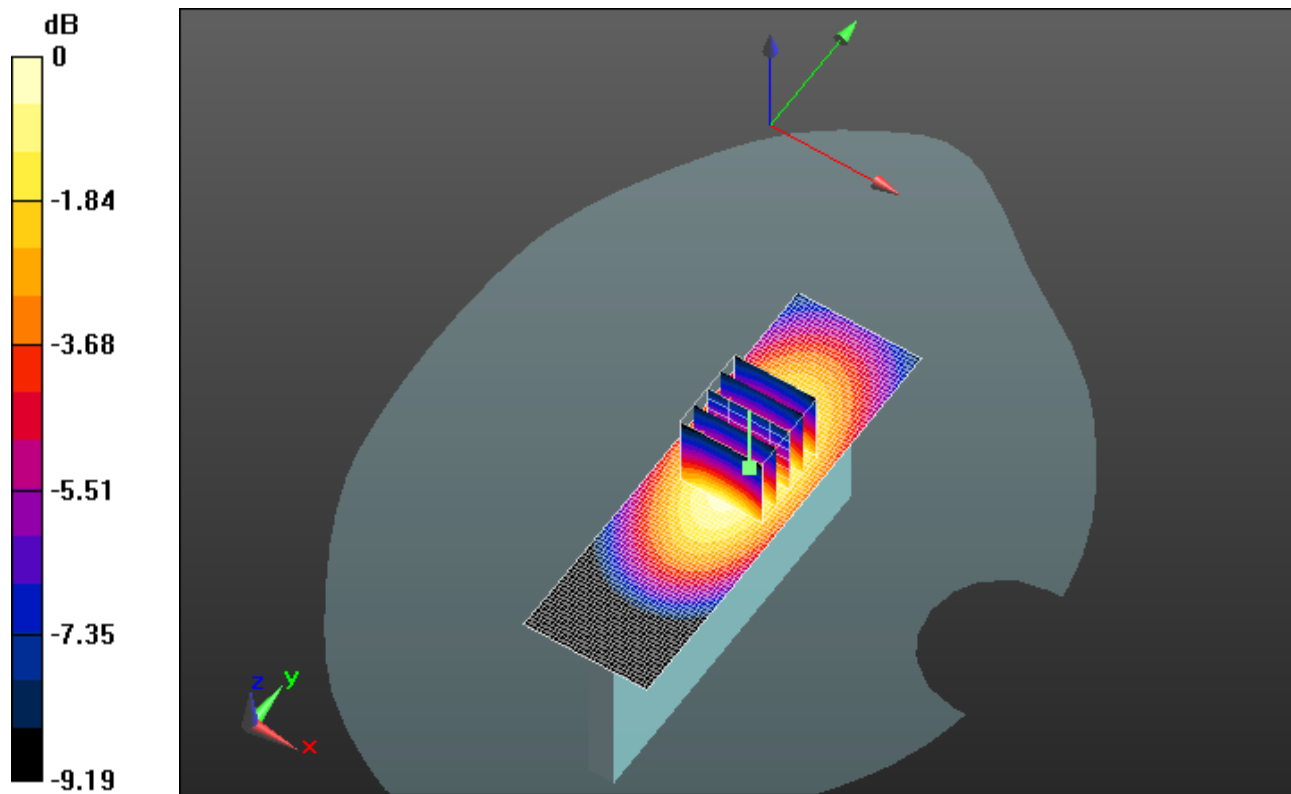
Peak SAR (extrapolated) = 0.6110

SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.302 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.501 mW/g

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0 dB = 0.500mW/g = -6.02 dB mW/g

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Date/Time: 9/24/2012 1:39:21 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_UMTS_Band_V_mid_chan_amb_temp_24
.5_liq_temp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.967$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.106 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.775 V/m; Power Drift = -0.06 dB

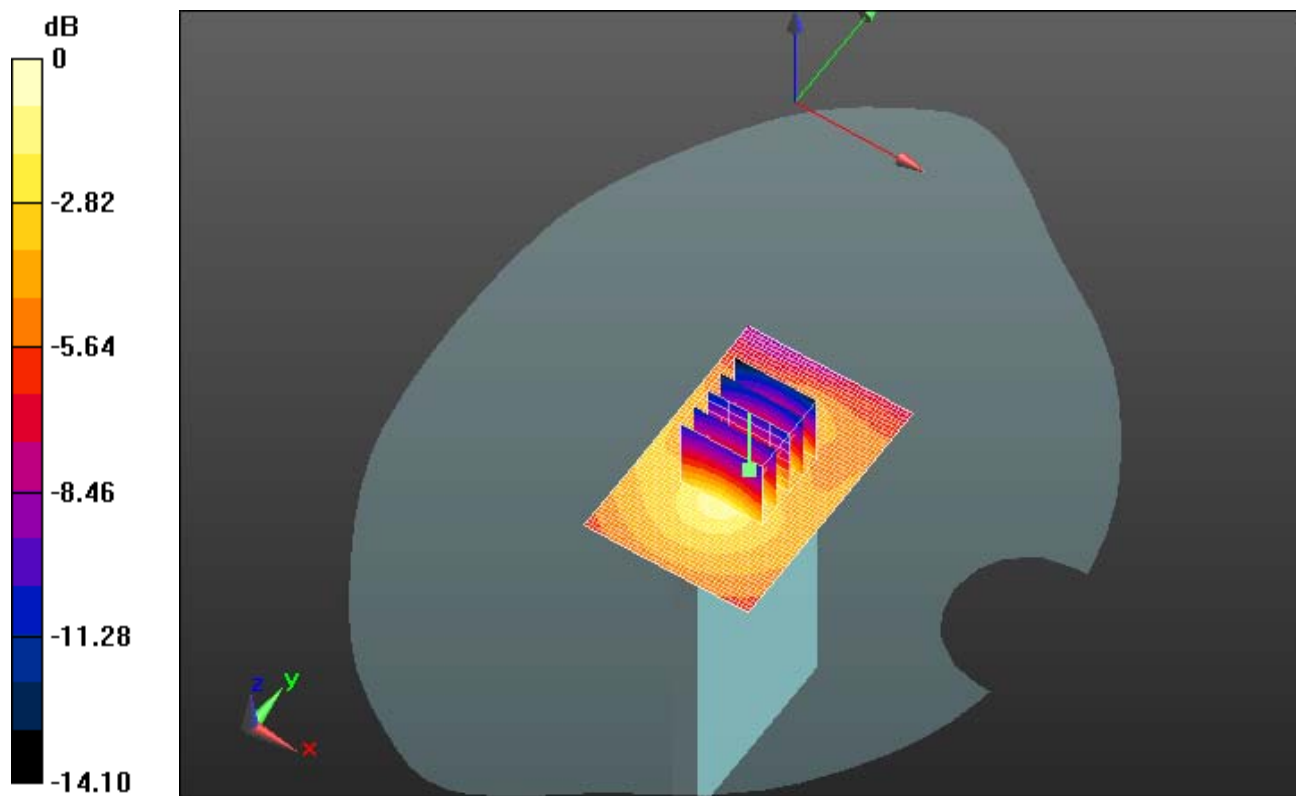
Peak SAR (extrapolated) = 0.1520

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.047 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.104 mW/g

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0 dB = 0.100mW/g = -20.00 dB mW/g

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Date/Time: 9/24/2012 4:31:21 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_Headset_UMTS_Band_V_mid_chan_amb_t
emp_24.3_liq_temp_22.3C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.949$ mho/m; $\epsilon_r = 52.967$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.644 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.318 V/m; Power Drift = 0.22 dB

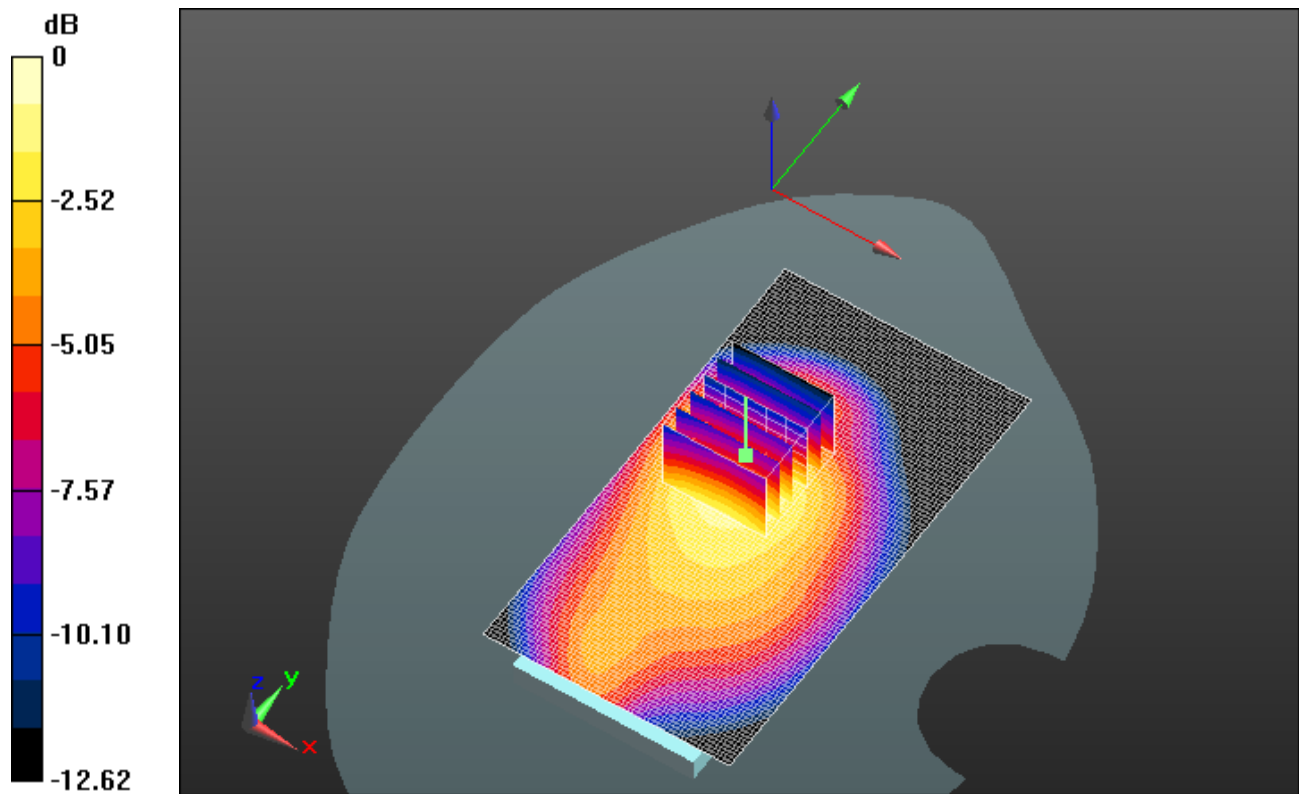
Peak SAR (extrapolated) = 0.8710

SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.360 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.649 mW/g

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0 dB = 0.650mW/g = -3.74 dB mW/g

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Date/Time: 11/1/2012 8:27:08 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_GPRS_1900_low_chan_amb_temp_22.8_liq
_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.491$ mho/m; $\epsilon_r = 52.379$;
 $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.921 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.697 V/m; Power Drift = -0.0022 dB

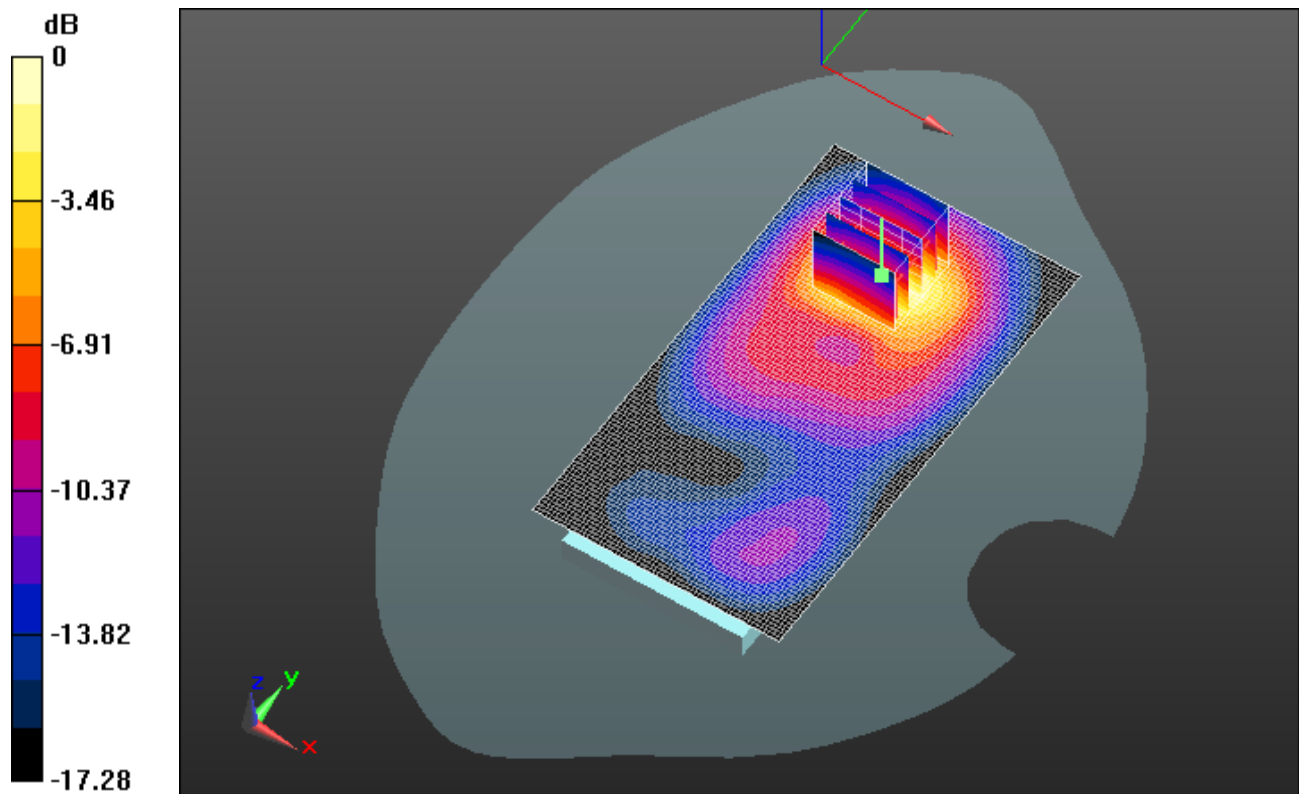
Peak SAR (extrapolated) = 1.2820

SAR(1 g) = 0.762 mW/g; SAR(10 g) = 0.413 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.932 mW/g

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0 dB = 0.930mW/g = -0.63 dB mW/g

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Date/Time: 11/1/2012 8:09:56 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_GPRS_1900_mid_chan_amb_temp_22.8_liq
_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.525 \text{ mho/m}$; $\epsilon_r = 52.284$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.097 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

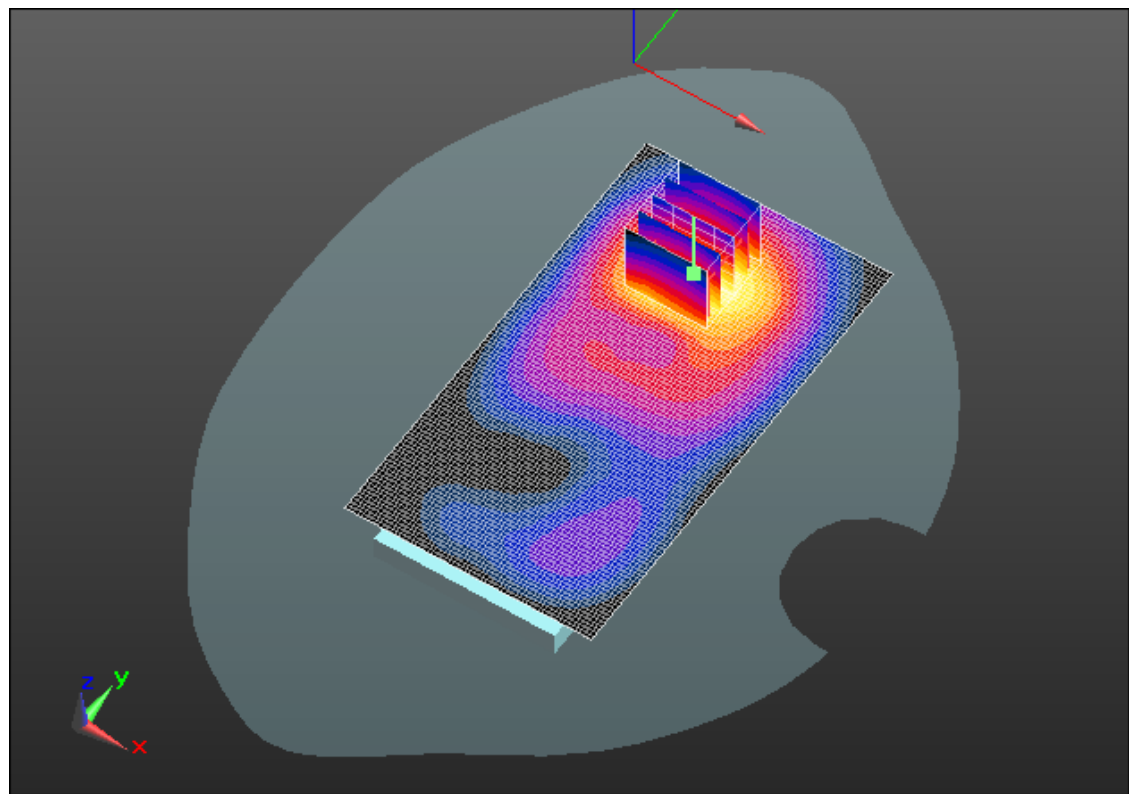
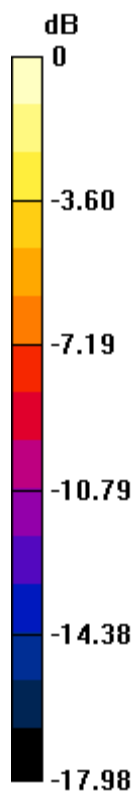
Reference Value = 5.667 V/m ; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.5710

SAR(1 g) = 0.907 mW/g ; SAR(10 g) = 0.486 mW/g

Maximum value of SAR (measured) = 1.120 mW/g

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0 dB = 1.120mW/g = 0.98 dB mW/g

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		IC ID 2503A-RFH120LW		

Date/Time: 11/1/2012 8:47:08 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_GPRS_1900_high_chan_amb_temp_22.8_li
q_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.127$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.118 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

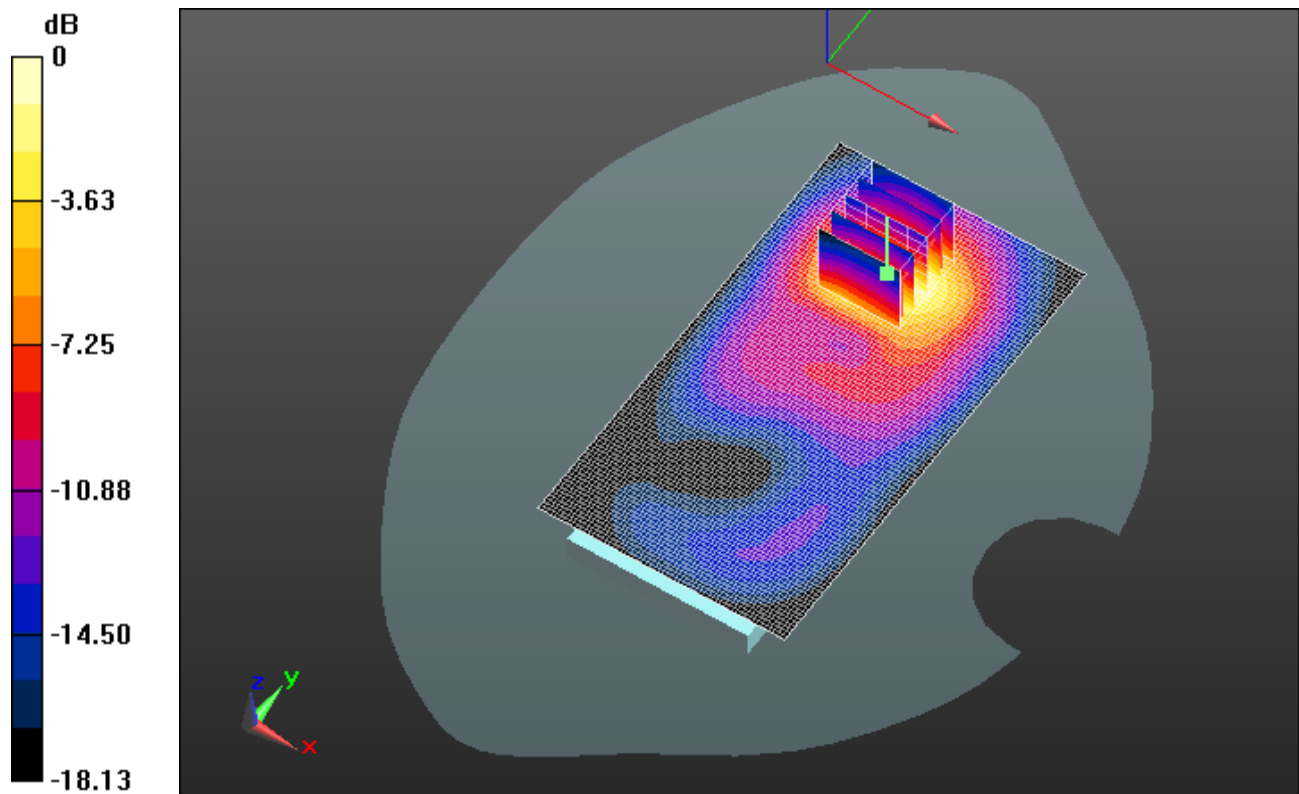
Reference Value = 5.638 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.6150

SAR(1 g) = 0.928 mW/g; SAR(10 g) = 0.493 mW/g

Maximum value of SAR (measured) = 1.141 mW/g

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0 dB = 1.140mW/g = 1.14 dB mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW

Date/Time: 11/1/2012 9:11:00 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Front_GPRS_1900_mid_chan_amb_temp_23.3_liq
_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.525 \text{ mho/m}$; $\epsilon_r = 52.284$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.884 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

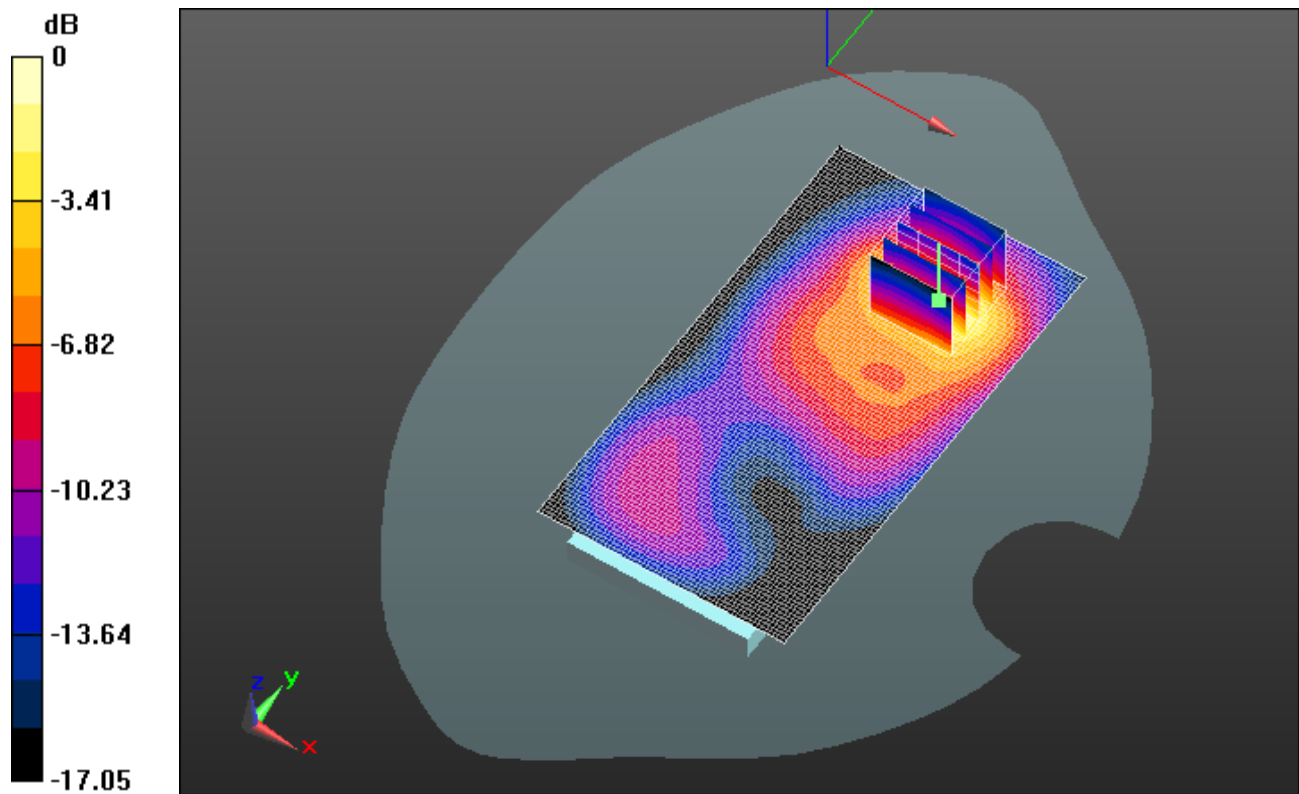
Reference Value = 6.128 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.2720

SAR(1 g) = 0.749 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.919 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW



0 dB = 0.920mW/g = -0.72 dB mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW

Date/Time: 11/1/2012 10:32:39 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Left_GPRS1900_mid_chan_amb_temp_23.3C_liq
_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.525 \text{ mho/m}$; $\epsilon_r = 52.284$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x111x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.112 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

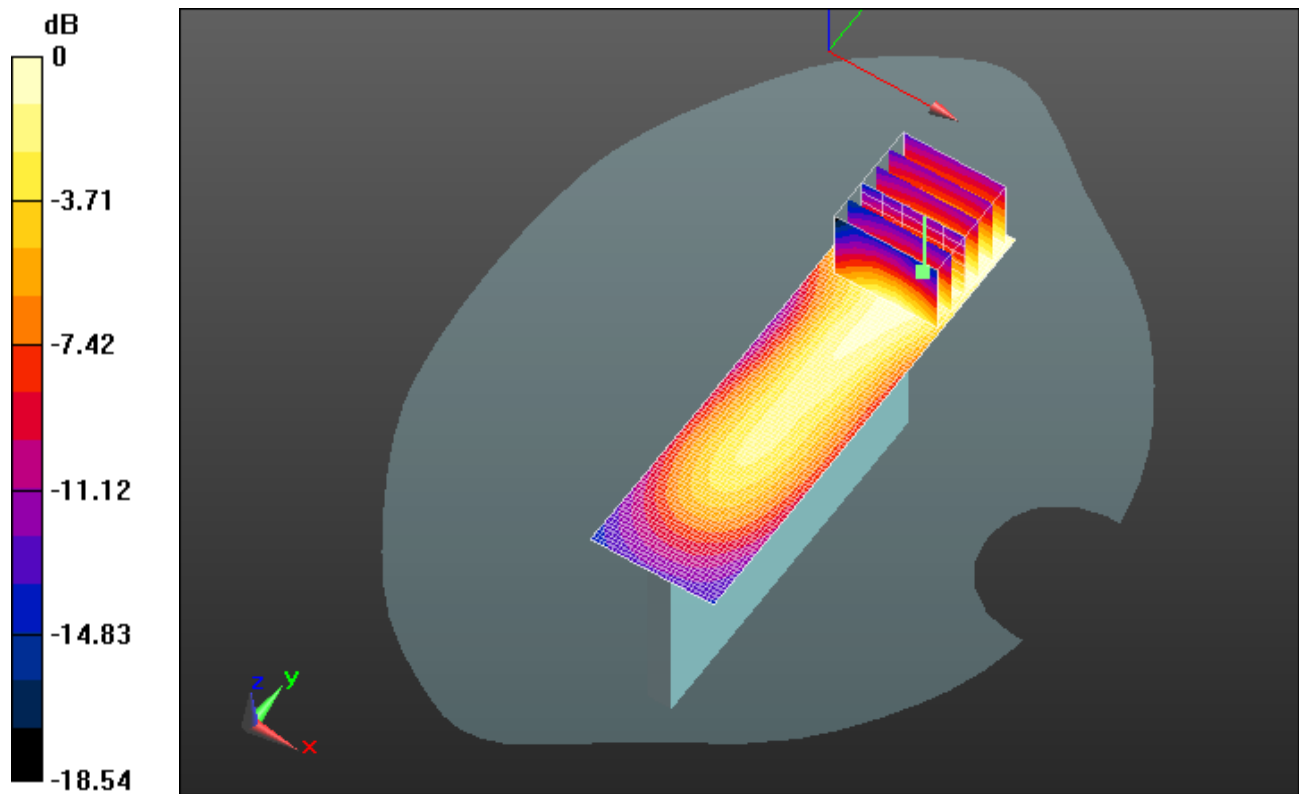
Reference Value = 7.049 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.1520

SAR(1 g) = 0.096 mW/g ; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (measured) = 0.112 mW/g

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0 dB = 0.110mW/g = -19.17 dB mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW	

Date/Time: 11/1/2012 9:43:12 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Right_GPRS1900_mid_chan_amb_temp_23.3C_li
q_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.525 \text{ mho/m}$; $\epsilon_r = 52.284$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.078 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

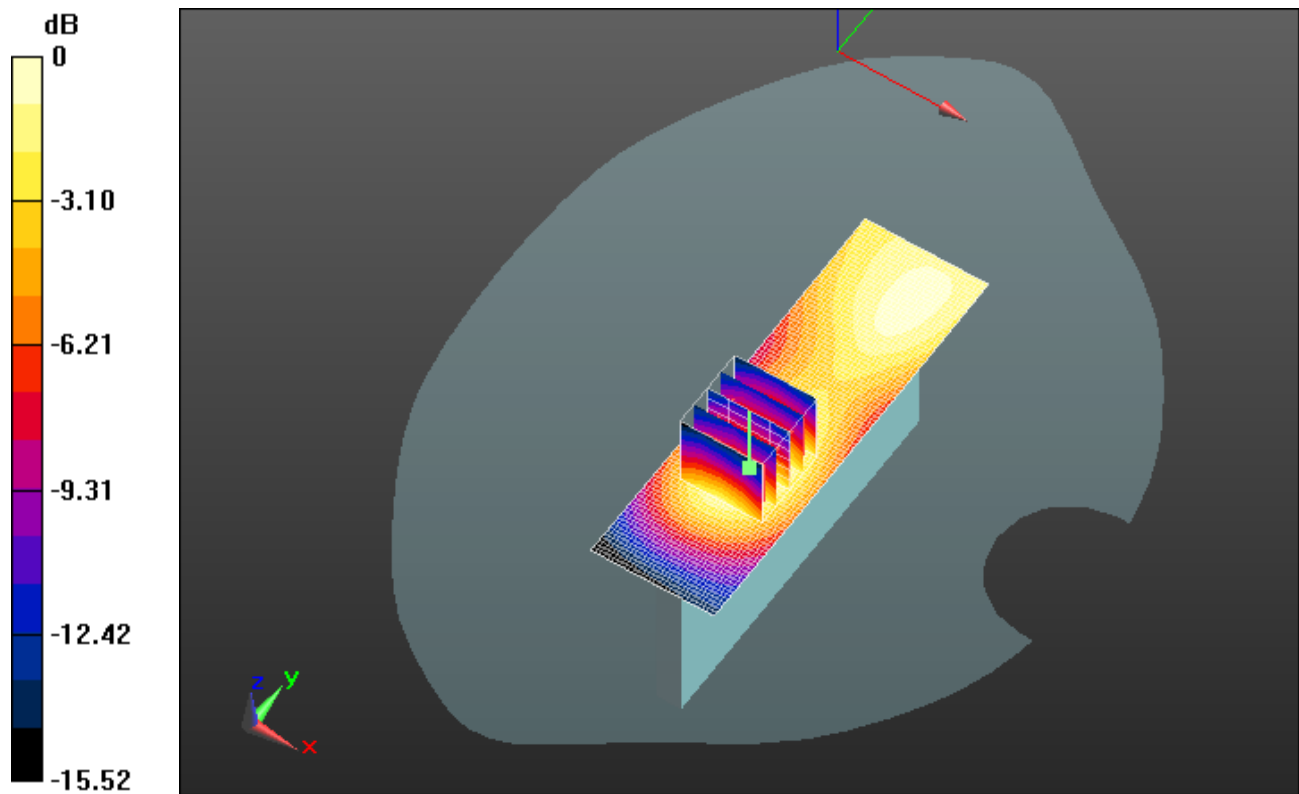
Reference Value = 6.178 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0970

SAR(1 g) = 0.061 mW/g ; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.073 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW



0 dB = 0.070mW/g = -23.10 dB mW/g

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Date/Time: 11/1/2012 11:39:46 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Bottom_GPRS1900_low_chan_amb_temp_23.3C_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.491$ mho/m; $\epsilon_r = 52.379$;
 $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.222 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.199 V/m; Power Drift = -0.03 dB

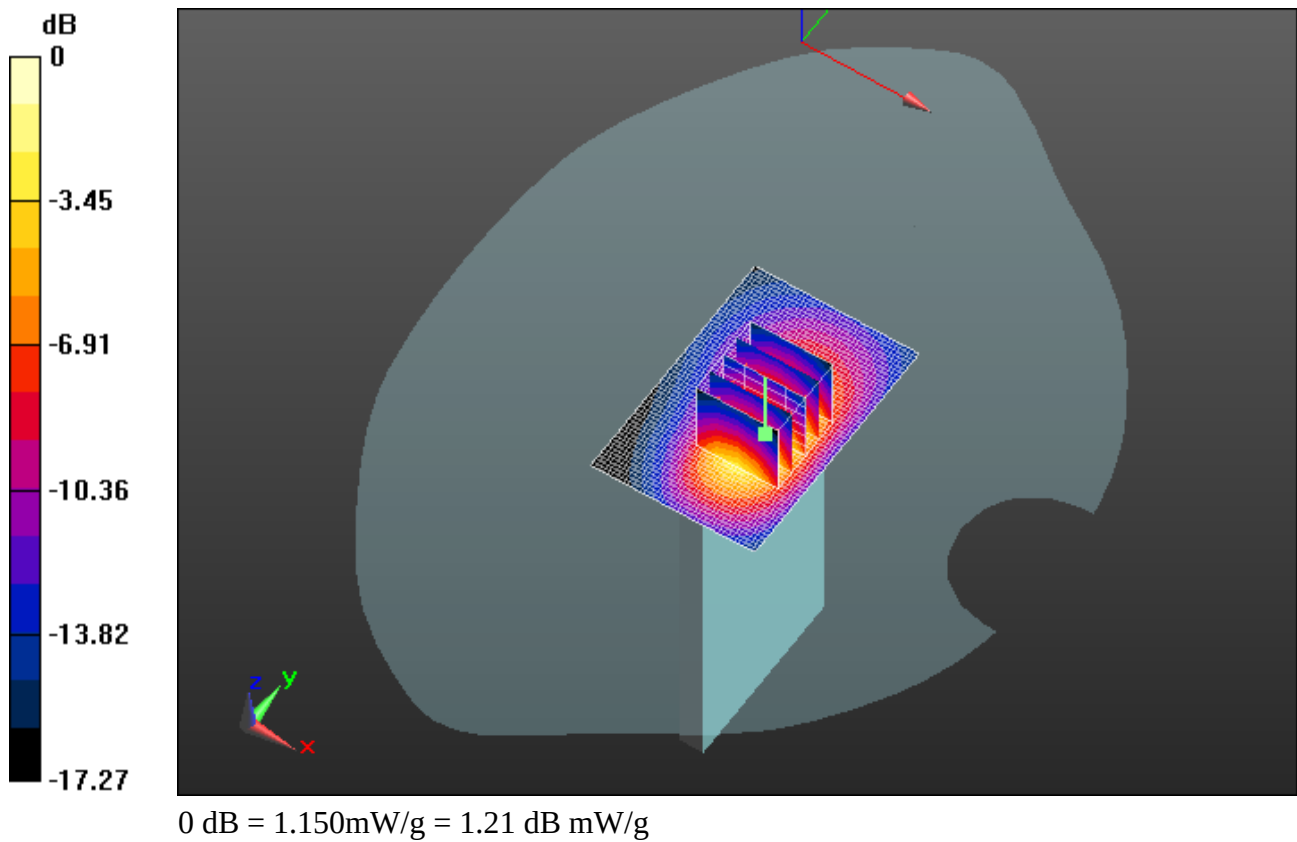
Peak SAR (extrapolated) = 1.5760

SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.474 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.150 mW/g

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Date/Time: 11/1/2012 11:24:31 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_GPRS1900_mid_chan_amb_temp_23.3C
_liq_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.525 \text{ mho/m}$; $\epsilon_r = 52.284$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.572 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

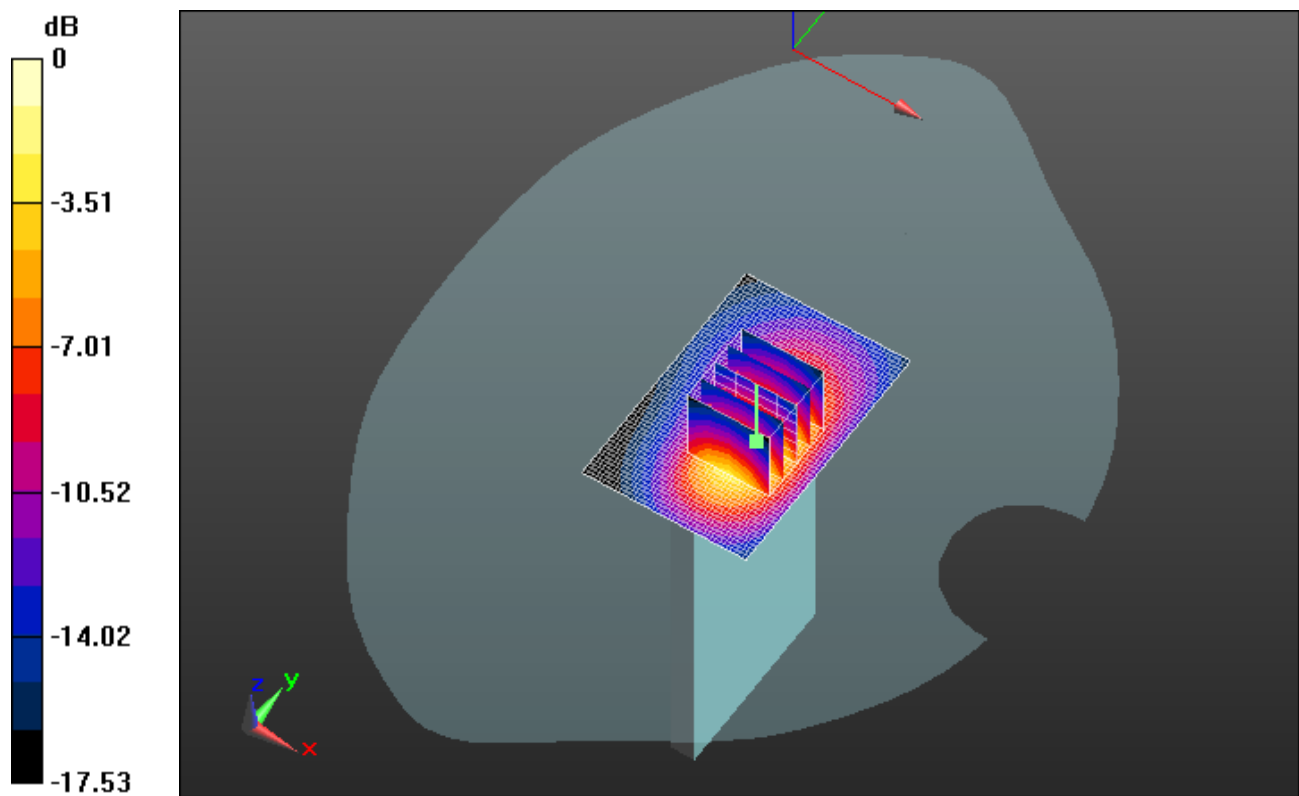
Reference Value = 26.822 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.0380

SAR(1 g) = 1.15 mW/g ; SAR(10 g) = 0.594 mW/g

Maximum value of SAR (measured) = 1.461 mW/g

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0 dB = 1.460mW/g = 3.29 dB mW/g

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Date/Time: 11/1/2012 11:52:25 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_GPRS1900_high_chan_amb_temp_23.3C
_liq_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.127$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.684 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

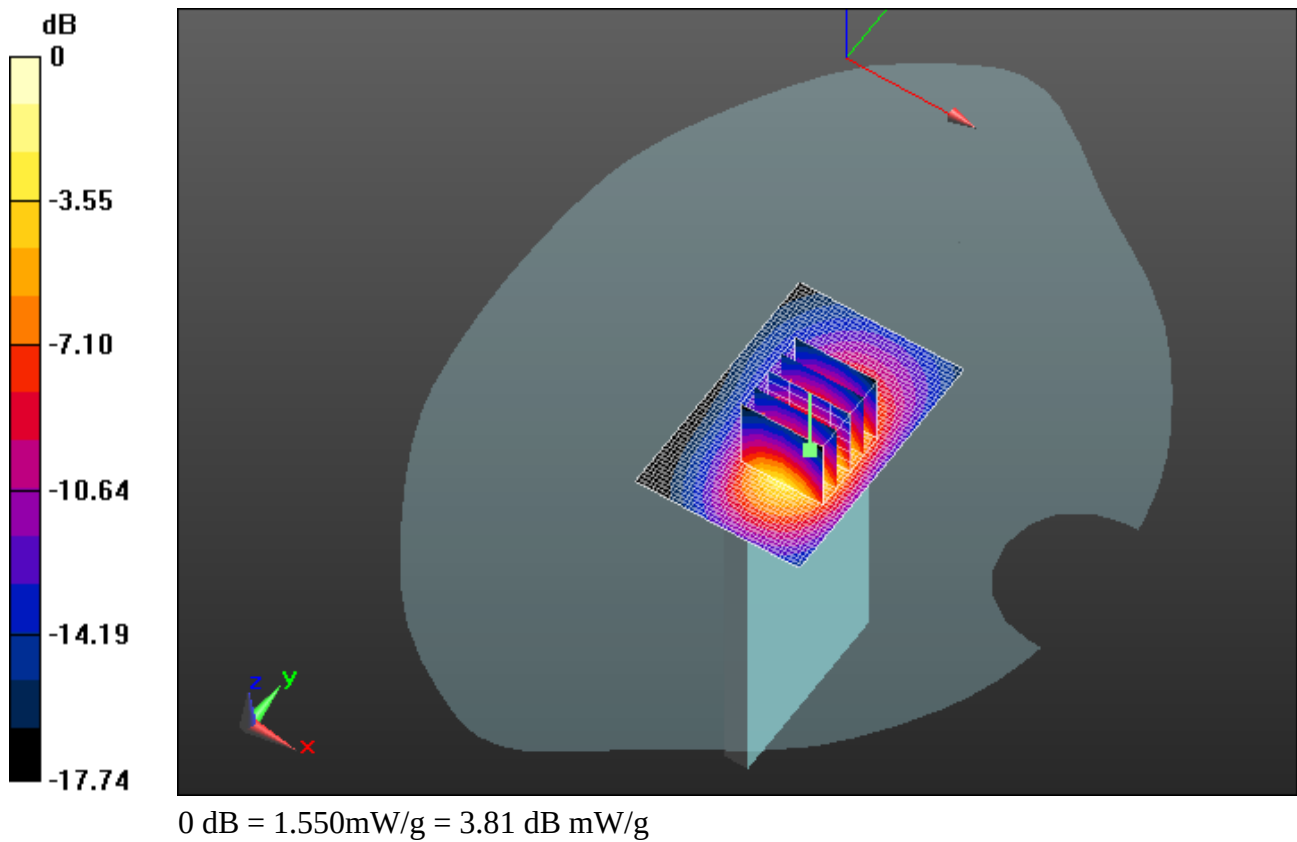
Reference Value = 27.004 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.1680

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.618 mW/g

Maximum value of SAR (measured) = 1.550 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW	

Date/Time: 11/2/2012 12:08:38 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_GPRS1900_3-
slots_high_chan_amb_temp_23.3C_liq_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900 (3-slots); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.127$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.737 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

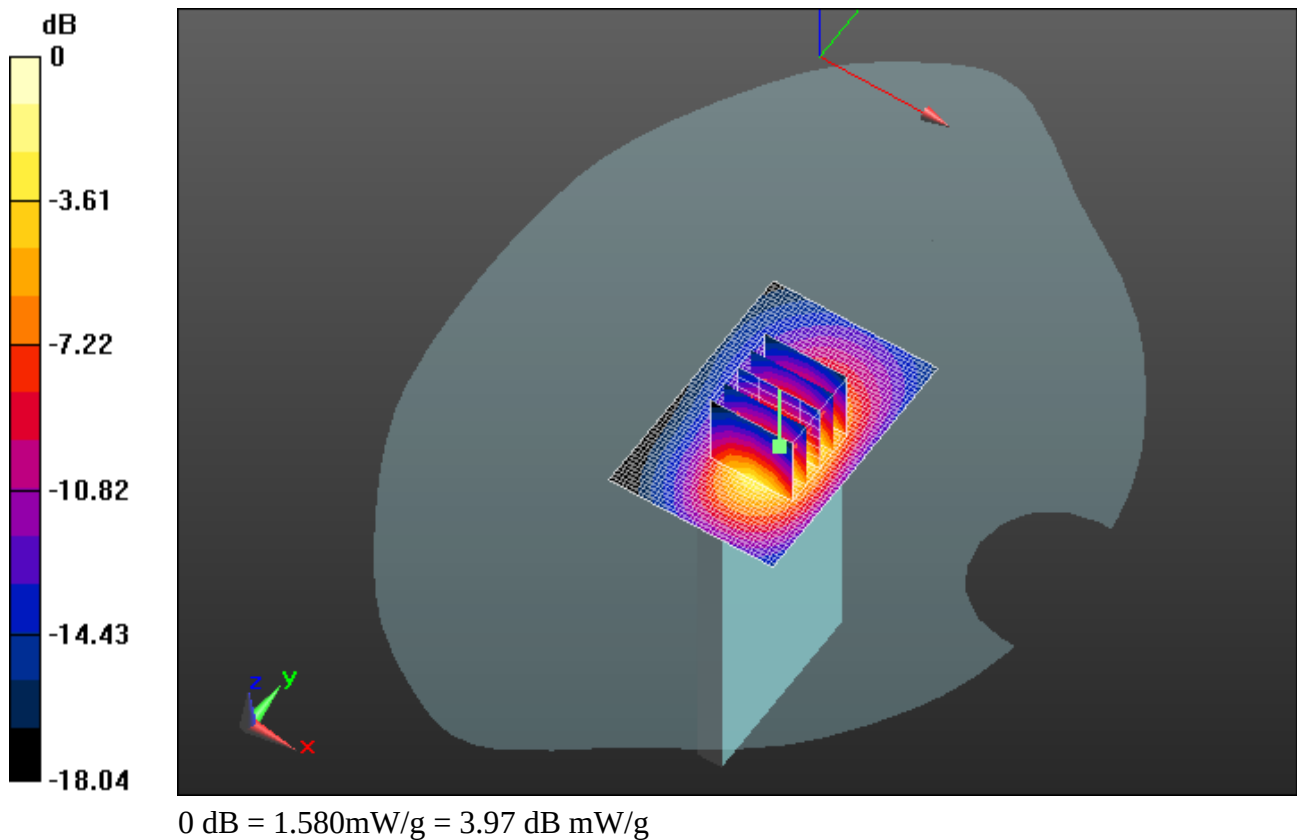
Reference Value = 27.444 V/m; Power Drift = 0.0062 dB

Peak SAR (extrapolated) = 2.2250

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.646 mW/g

Maximum value of SAR (measured) = 1.584 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW



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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW	

Date/Time: 11/2/2012 1:13:12 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_Headset_GPRS1900_3-
slots_high_chan_amb_temp_23.3C_liq_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900 (3-slots); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.127$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.557 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

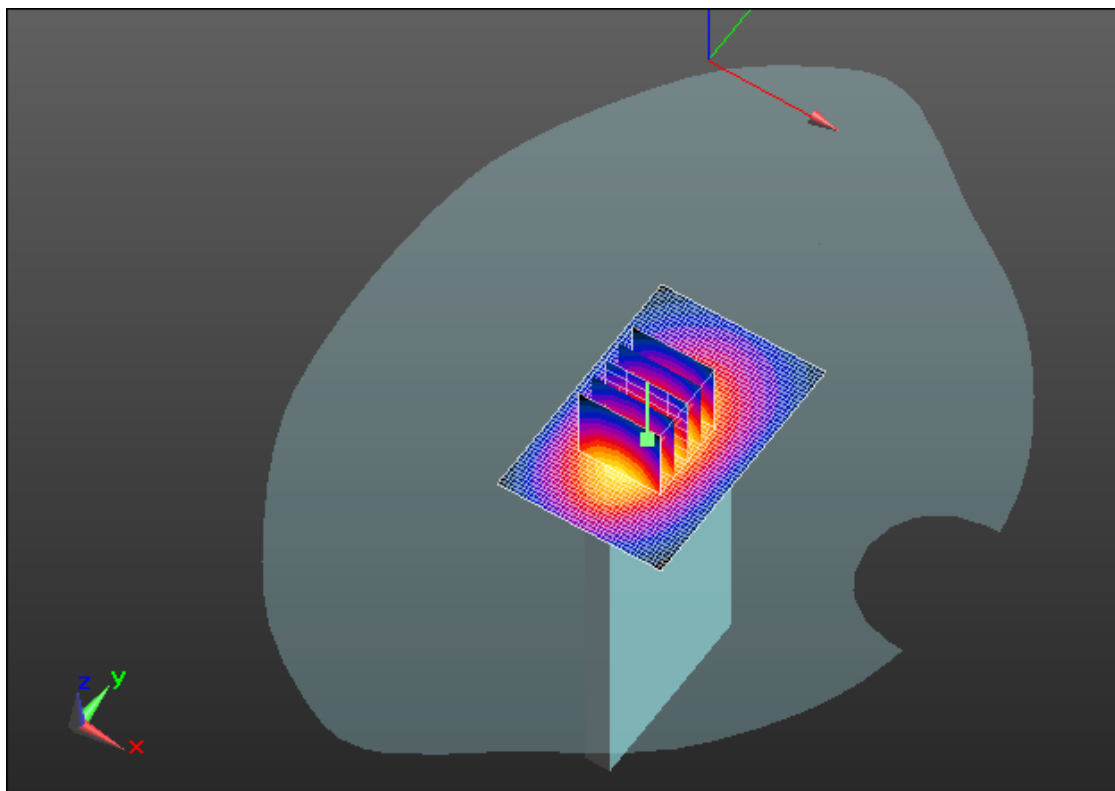
Reference Value = 31.469 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 2.0870

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.614 mW/g

Maximum value of SAR (measured) = 1.492 mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW



0 dB = 1.490mW/g = 3.46 dB mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW	

Date/Time: 11/2/2012 12:25:33 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_GPRS1900_4-
slots_high_chan_amb_temp_23.3C_liq_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: GPRS 1900 (4-slots); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.127$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.681 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

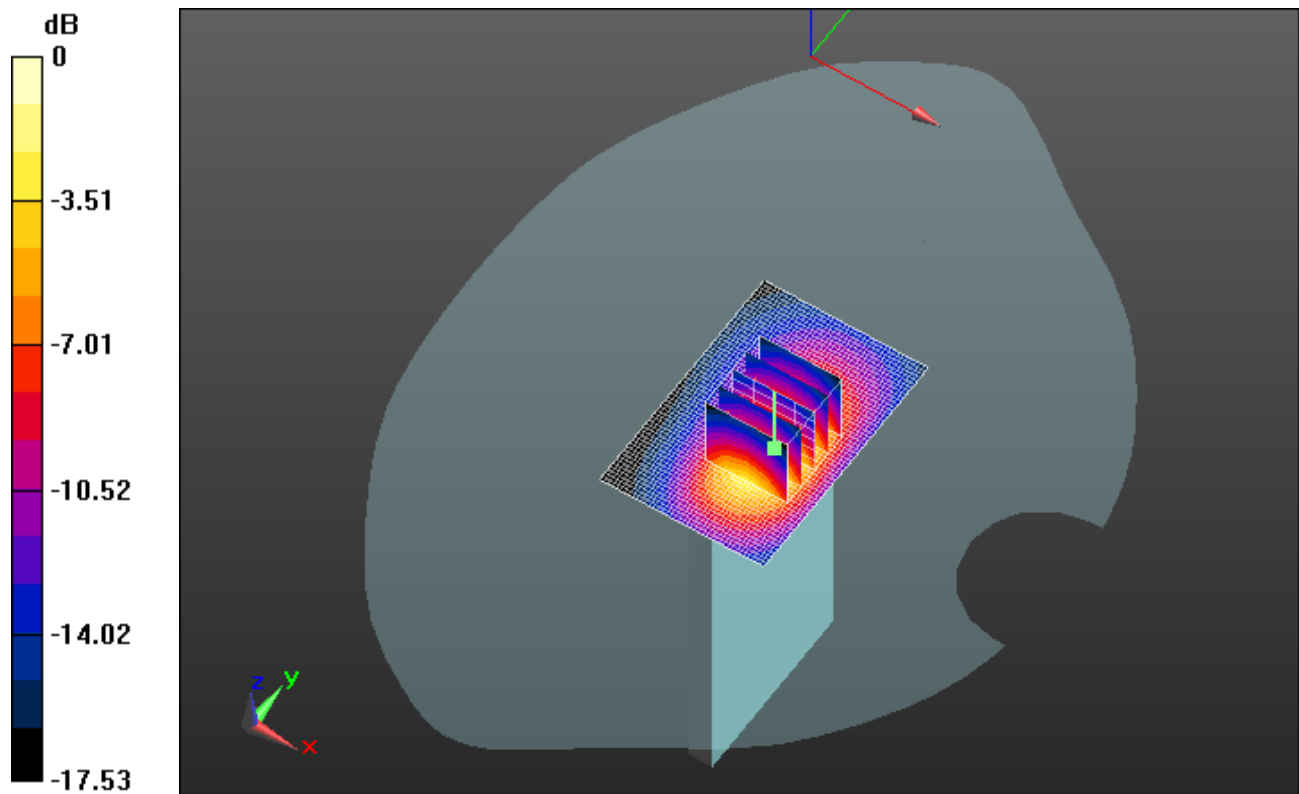
Reference Value = 26.755 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.0970

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.615 mW/g

Maximum value of SAR (measured) = 1.510 mW/g

	Document Appendix C2 for the BlackBerry® Smartphone Model RFH121LW SAR Report			Page 59(72)
Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW



0 dB = 1.510mW/g = 3.58 dB mW/g

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Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW	IC ID 2503A-RFH120LW

Date/Time: 11/6/2012 1:12:46 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_802.11b_high_chan_amb_temp_23.1_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.197$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.383 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.252 V/m; Power Drift = 0.99 dB

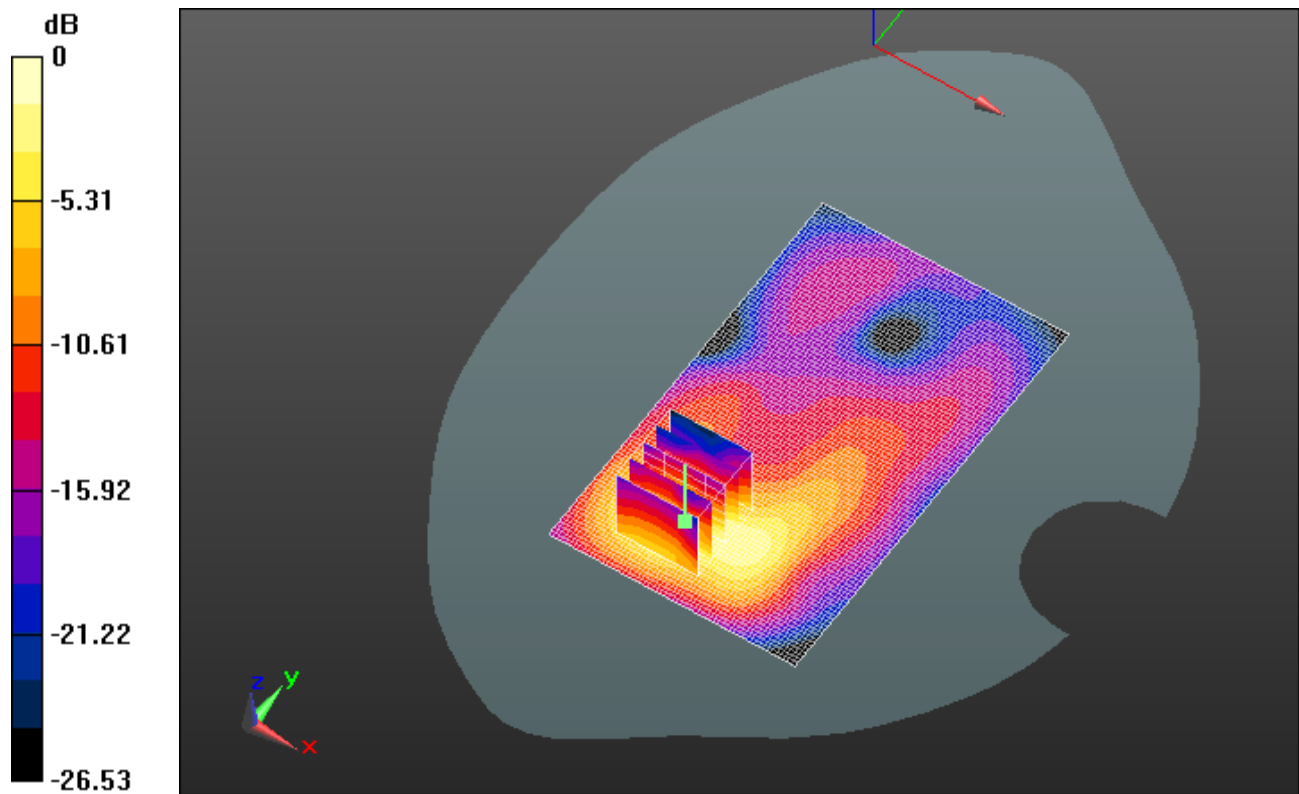
Peak SAR (extrapolated) = 0.6080

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.137 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.414 mW/g

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0 dB = 0.410mW/g = -7.74 dB mW/g

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Date/Time: 11/6/2012 10:28:52 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Front_802.11b_high_chan_amb_temp_23.1_liq_tem
_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.197$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.210 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.063 V/m; Power Drift = -0.03 dB

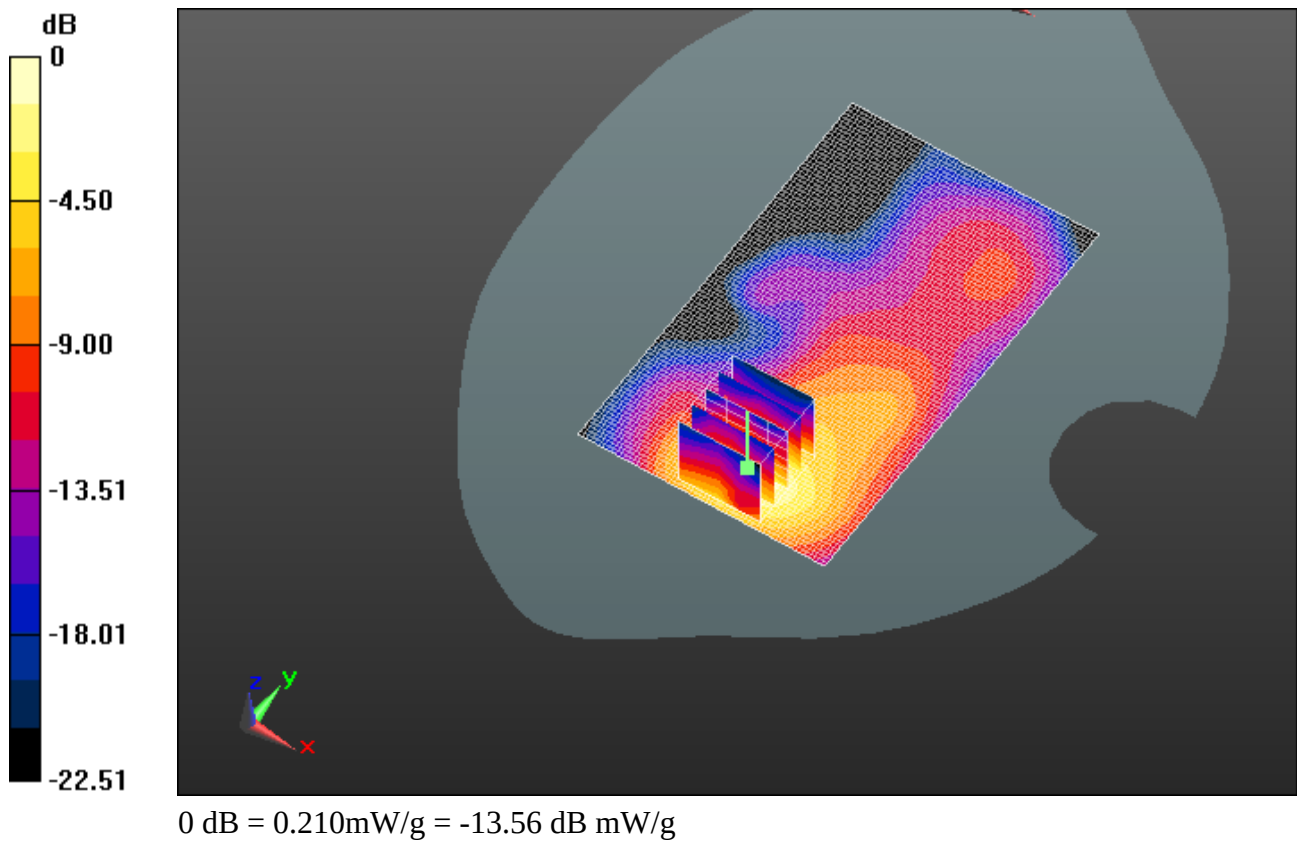
Peak SAR (extrapolated) = 0.3620

SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.078 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.208 mW/g

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Date/Time: 11/6/2012 11:54:35 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Left_802.11b_high_chan_amb_temp_23.5_liq_tem
p_22.8C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25B217A1

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.197$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.048 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.326 V/m; Power Drift = 0.16 dB

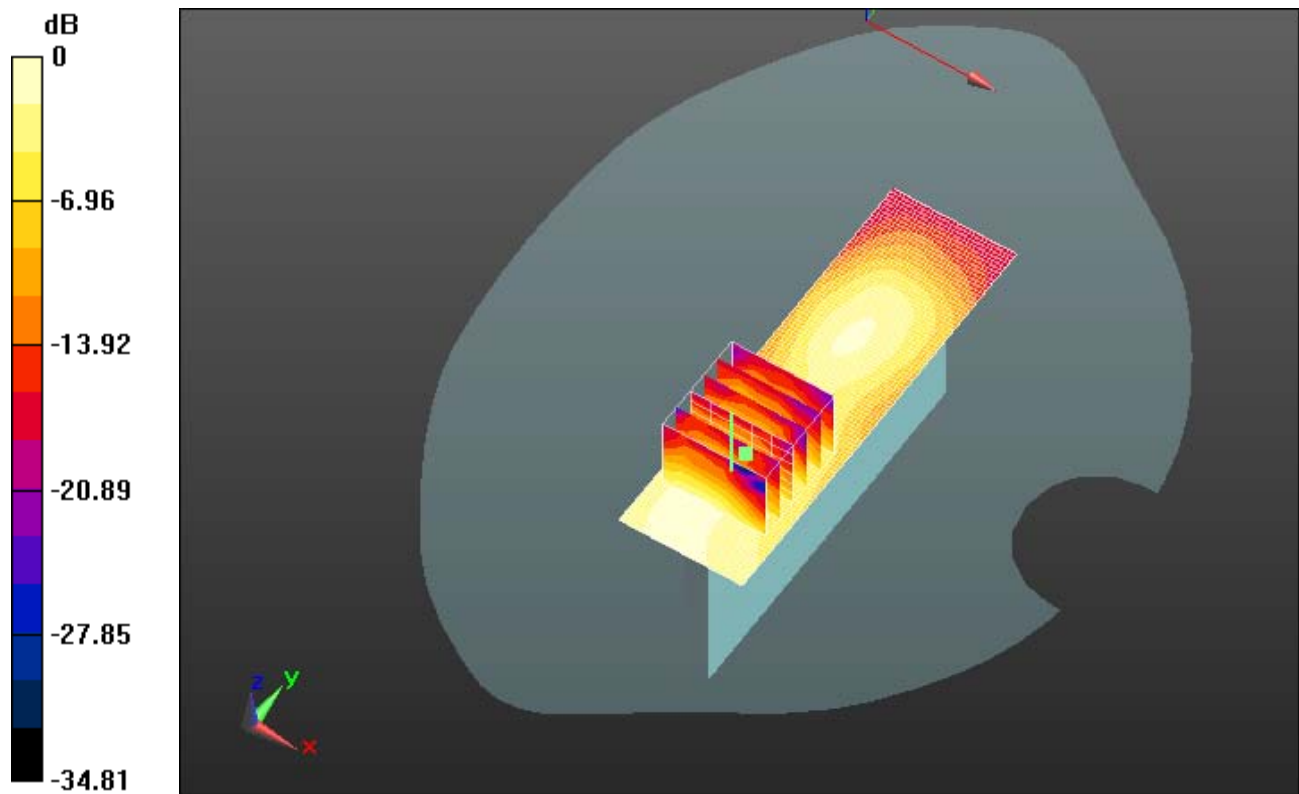
Peak SAR (extrapolated) = 0.0740

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.020 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.047 mW/g

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0 dB = 0.050mW/g = -26.02 dB mW/g

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Date/Time: 11/6/2012 12:12:18 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Right_802.11b_high_chan_amb_temp_23.5_liq_tem
p_22.8C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25B217A1

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.197$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (31x101x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.00583 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.389 V/m; Power Drift = 0.32 dB

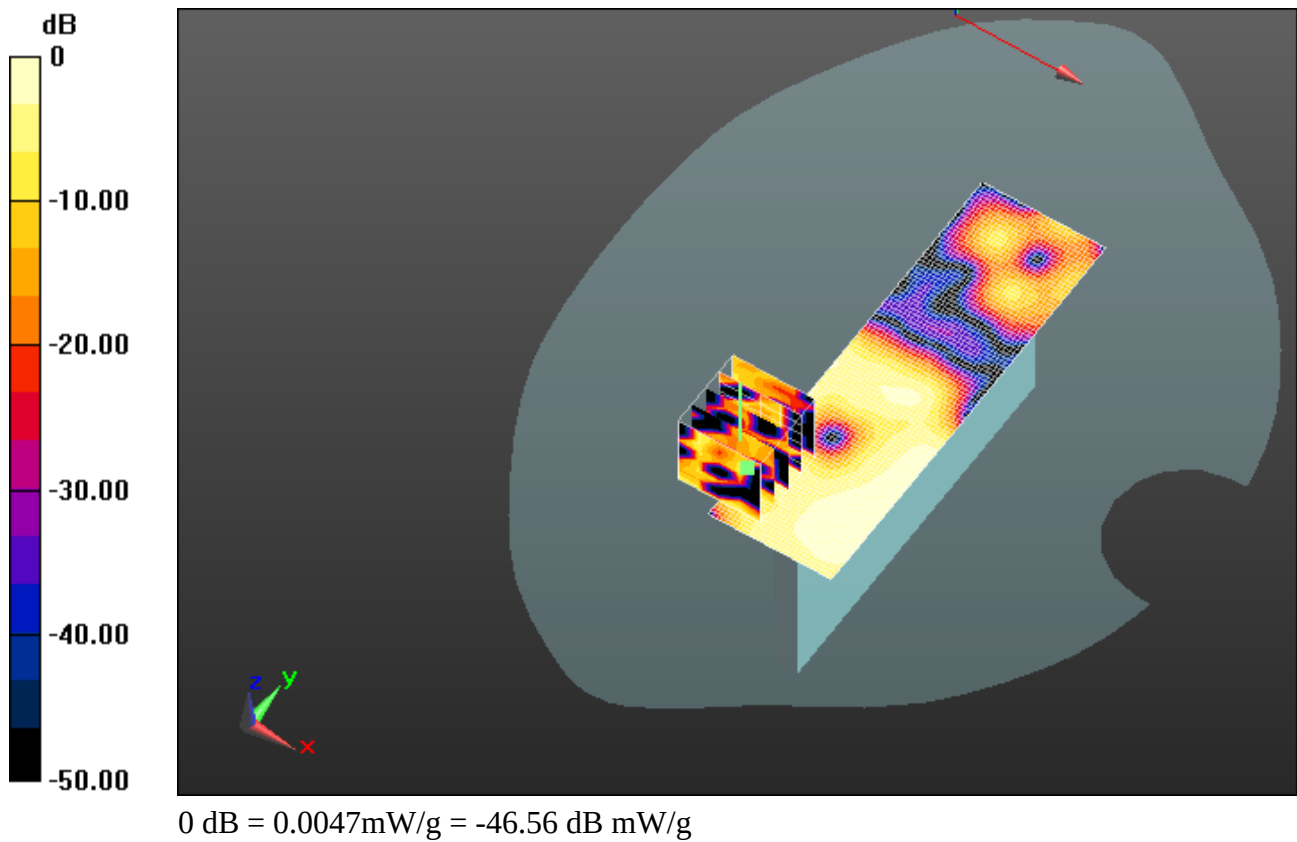
Peak SAR (extrapolated) = 0.009970

SAR(1 g) = 0.00245 mW/g; SAR(10 g) = 0.000698 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.00474 mW/g

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Date/Time: 11/6/2012 11:33:12 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Top_802.11b_high_chan_amb_temp_23.5_liq_tem
p_22.4C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.197$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.403 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.536 V/m; Power Drift = 0.02 dB

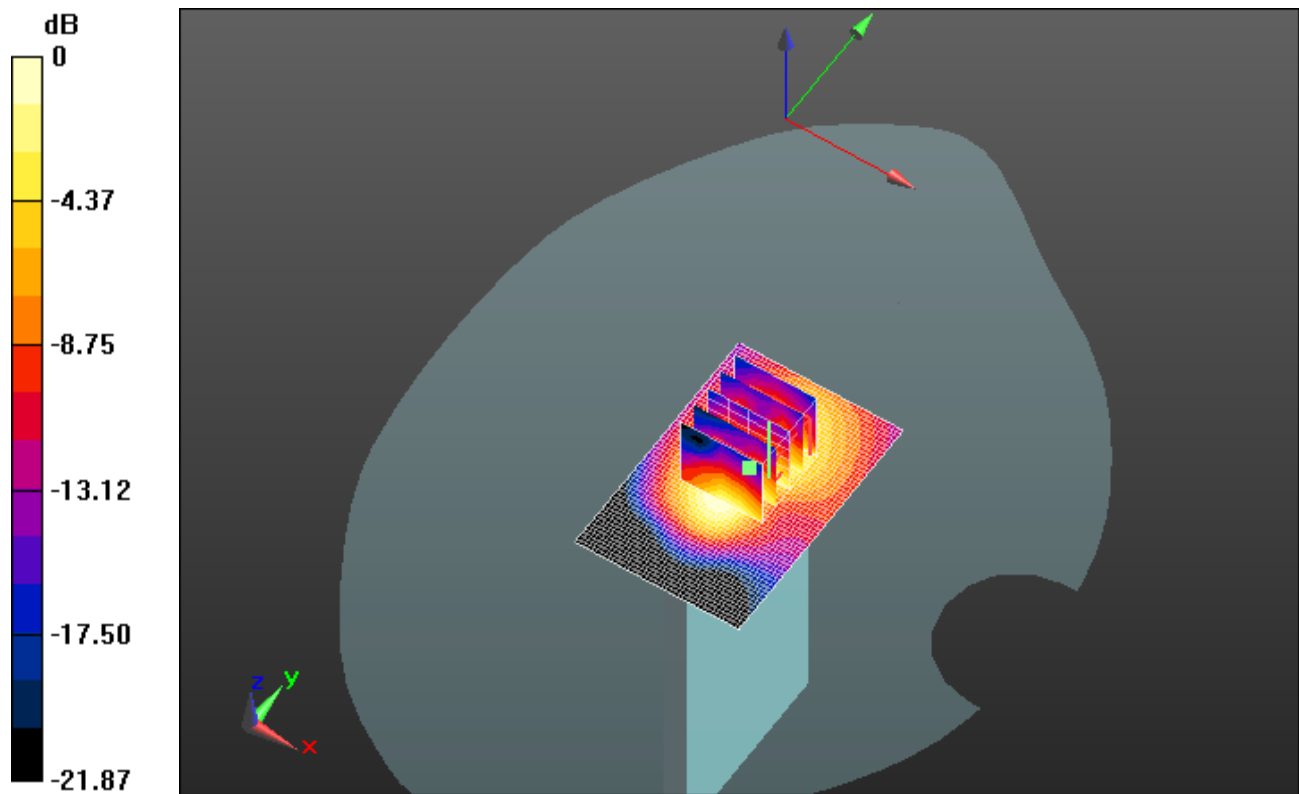
Peak SAR (extrapolated) = 0.4500

SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.124 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.322 mW/g

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0 dB = 0.320mW/g = -9.90 dB mW/g

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Date/Time: 11/6/2012 9:55:51 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Headset_Back_802.11b_high_chan_amb_temp_2
3.5_liq_temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.197$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.319 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.922 V/m; Power Drift = -0.19 dB

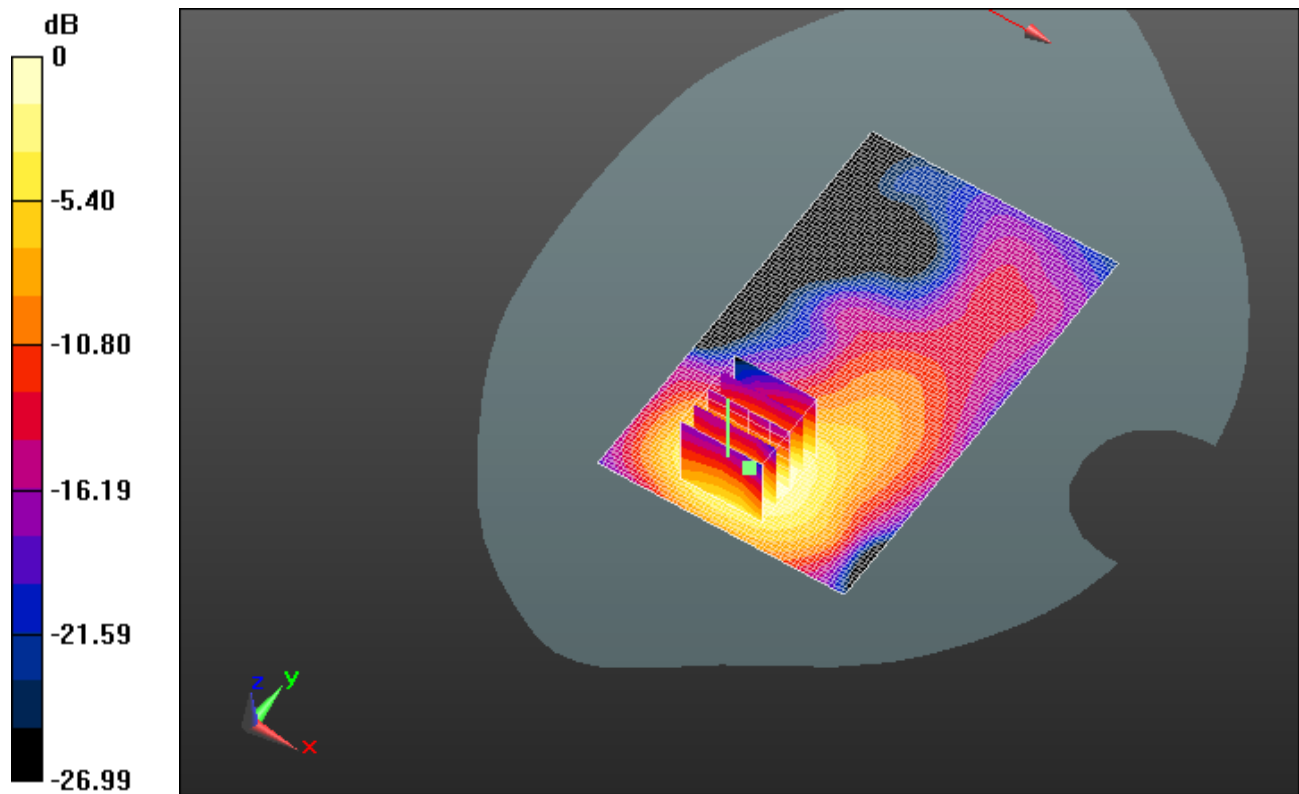
Peak SAR (extrapolated) = 0.4230

SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.118 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.296 mW/g

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0 dB = 0.300mW/g = -10.46 dB mW/g

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Z axis plot for the worst case body configuration

