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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 2/9/2012 8:45:50 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_mid_chan_amb_temp_22.9C_liq_temp_20.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.997$ mho/m; $\epsilon_r = 55.764$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.750 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 = 25.468 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.9350

SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.525 mW/g

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

Maximum value of SAR (measured) = 0.764 mW/g

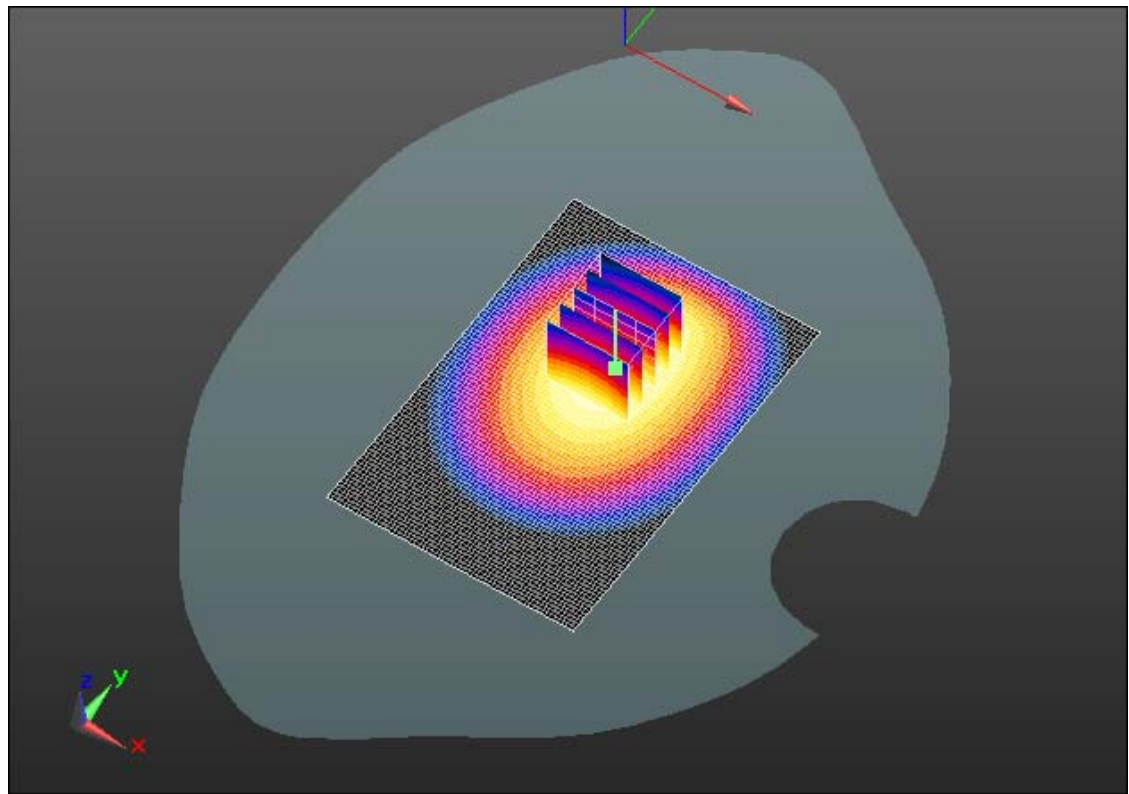
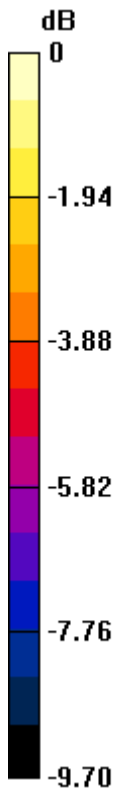
Author Data
Andrew Becker

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0 dB = 0.760mW/g = -2.38 dB mW/g

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Date/Time: 2/9/2012 9:19:21 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_GPRS850_mid_chan_amb_temp_22.9C_liq_temp_20.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.997 \text{ mho/m}$; $\epsilon_r = 55.764$; $\rho = 1000 \text{ kg/m}^3$

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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.610 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 = 23.469 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.7190

SAR(1 g) = 0.583 mW/g; SAR(10 g) = 0.438 mW/g

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

Maximum value of SAR (measured) = 0.614 mW/g

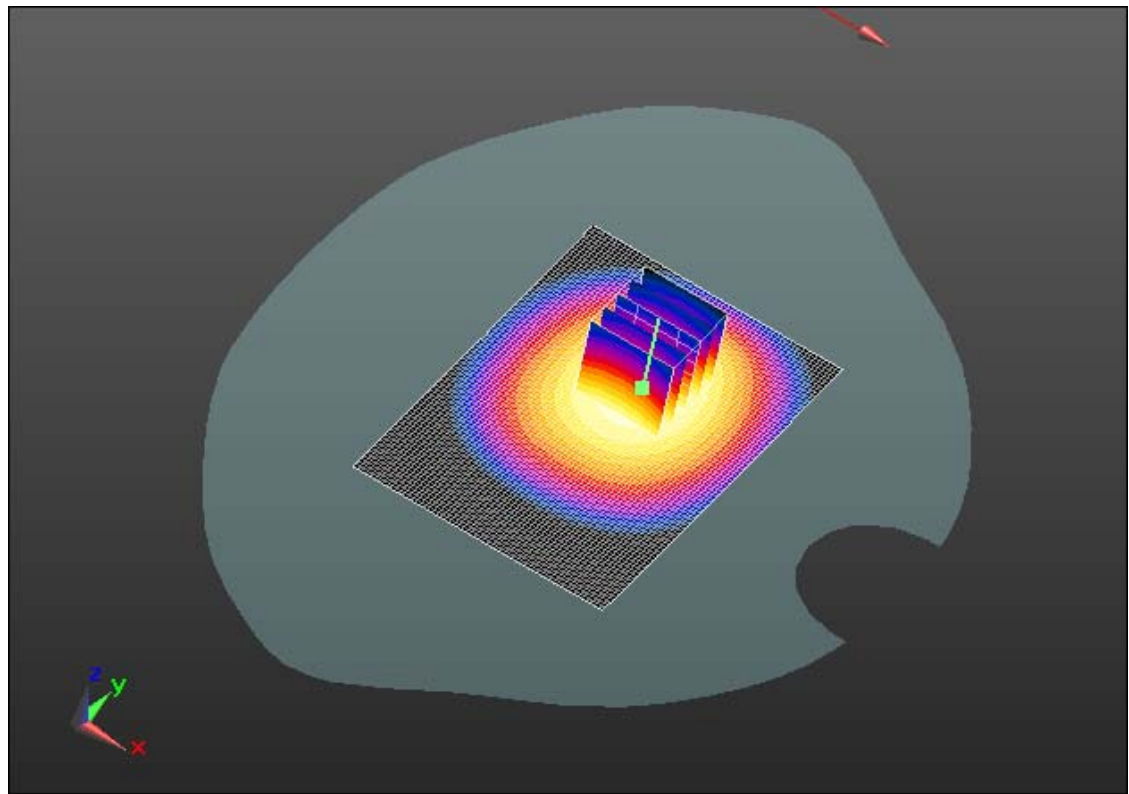
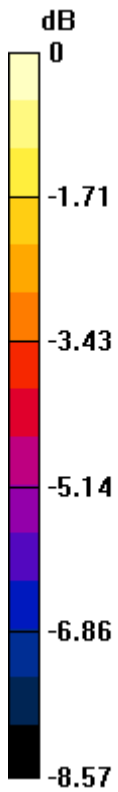
Author Data
Andrew Becker

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0 dB = 0.610mW/g = -4.29 dB mW/g

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Date/Time: 2/9/2012 9:43:06 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS850_mid_chan_amb_temp_22.9C_liq_tem p_20.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.997$ mho/m; $\epsilon_r = 55.764$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.796 mW/g

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

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

Reference Value = 28.173 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.9460

SAR(1 g) = 0.752 mW/g; SAR(10 g) = 0.555 mW/g

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

Maximum value of SAR (measured) = 0.795 mW/g

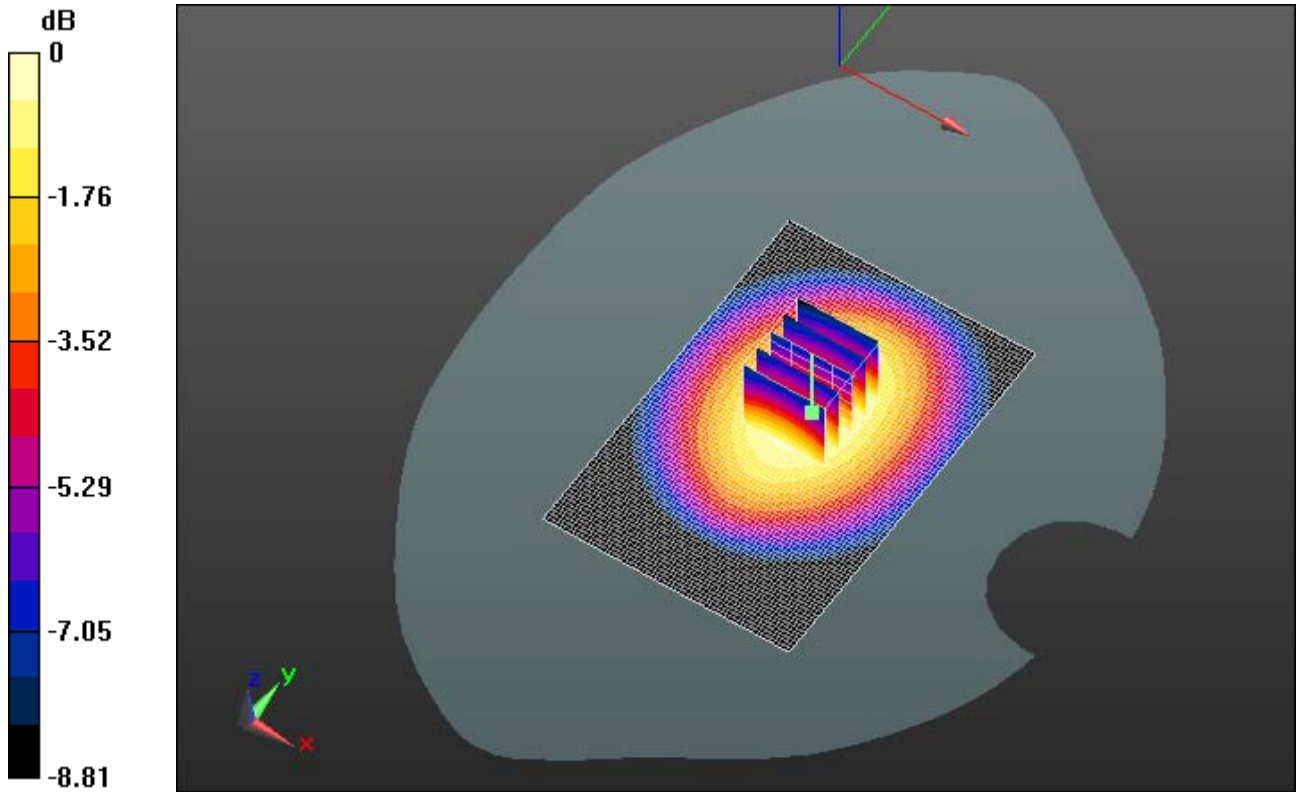
Author Data
Andrew Becker

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0 dB = 0.800mW/g = -1.94 dB mW/g

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Date/Time: 2/9/2012 10:07:02 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Back_Headset_GPRS850_mid_chan_amb_temp_22.9
C_liq_temp_20.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.997$ mho/m; $\epsilon_r = 55.764$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.506 mW/g

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

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

Reference Value = 21.102 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.6150

SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.350 mW/g

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

Maximum value of SAR (measured) = 0.506 mW/g

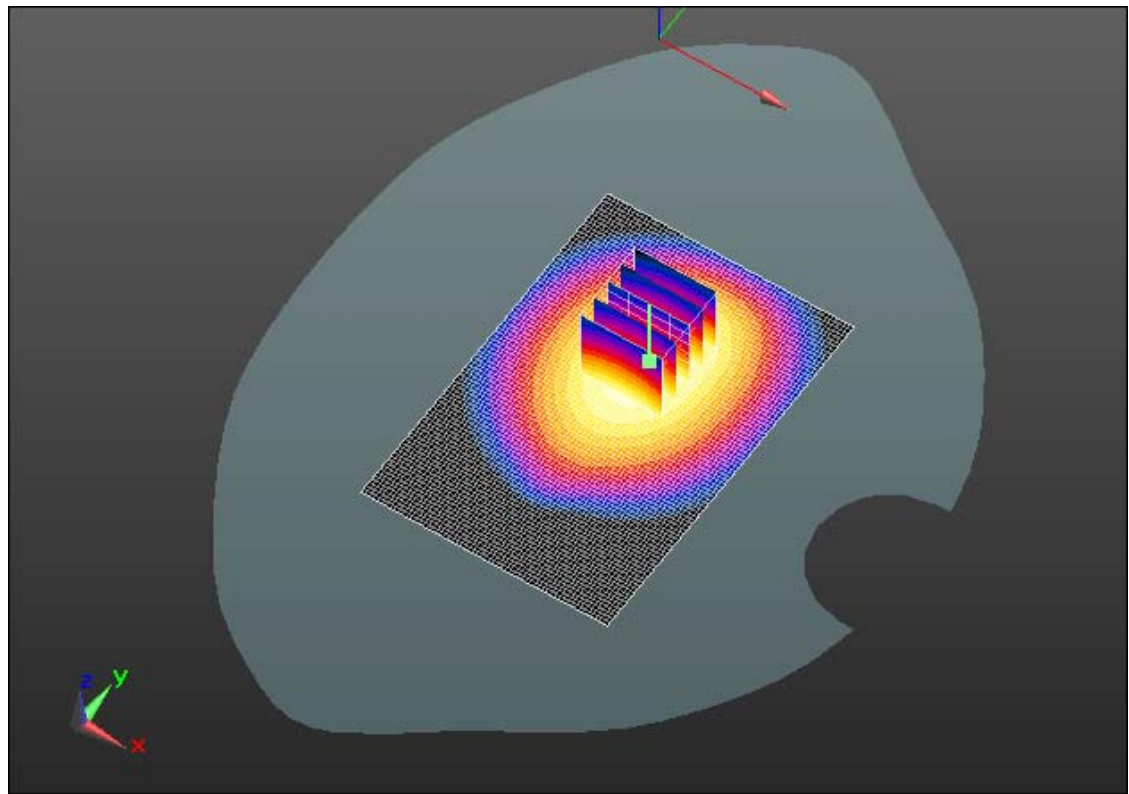
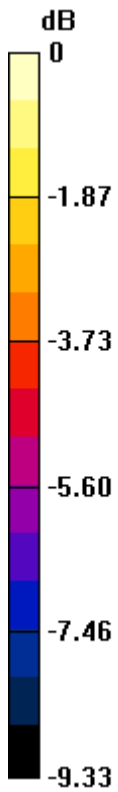
Author Data
Andrew Becker

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0 dB = 0.510mW/g = -5.85 dB mW/g

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Date/Time: 2/10/2012 2:21:51 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_UMTS_Band_V_mid_chan_amb_temp_23.0C_liq_t
emp_20.0C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.996$ mho/m; $\epsilon_r = 55.769$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.688 mW/g

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

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

Reference Value = 24.754 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.8080

SAR(1 g) = 0.614 mW/g; SAR(10 g) = 0.447 mW/g

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

Maximum value of SAR (measured) = 0.682 mW/g

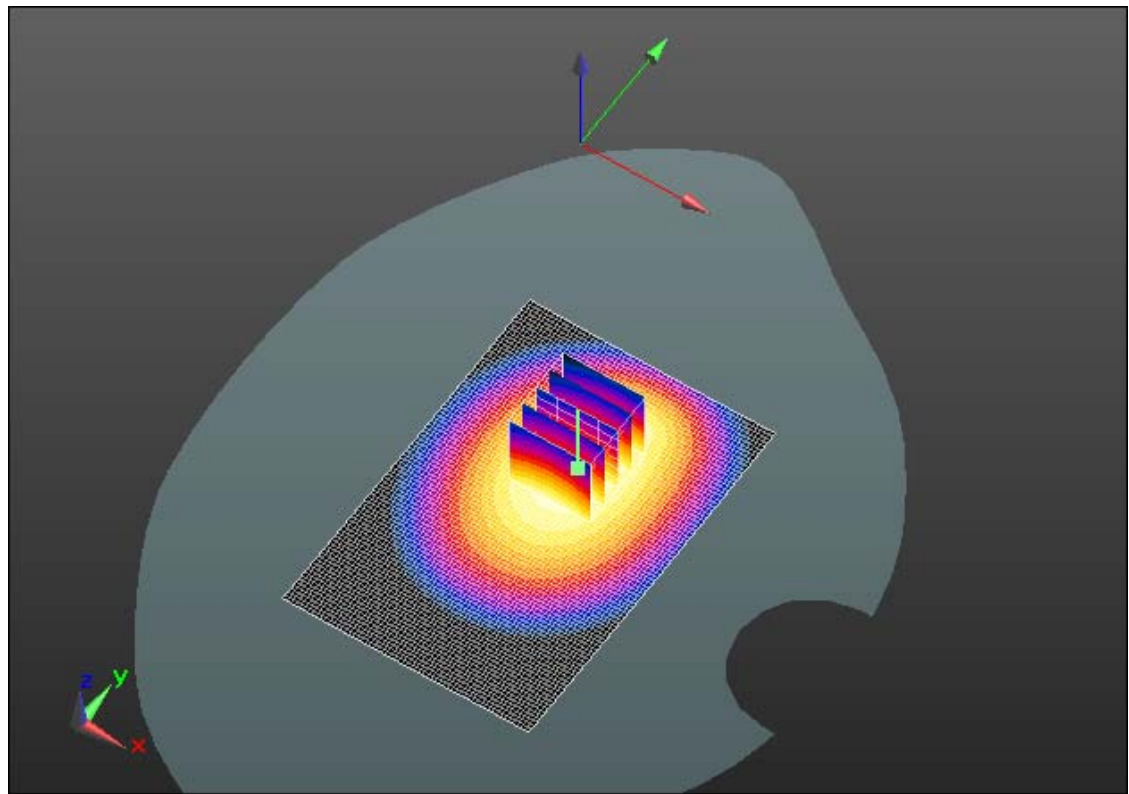
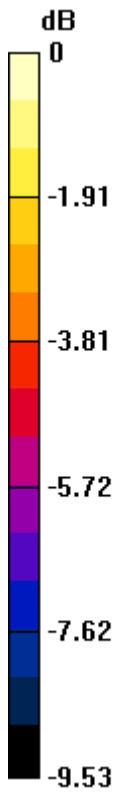
Author Data
Andrew Becker

Dates of Test
February 06 – March 6 , 2012


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0 dB = 0.680mW/g = -3.35 dB mW/g

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Date/Time: 2/10/2012 3:00:31 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_UMTS_Band_V_mid_chan_amb_temp_23.1C_liq_temp_20.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.996$ mho/m; $\epsilon_r = 55.769$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.550 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 = 22.721 V/m; Power Drift = -0.0092 dB

Peak SAR (extrapolated) = 0.6360

SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.369 mW/g

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

Maximum value of SAR (measured) = 0.547 mW/g

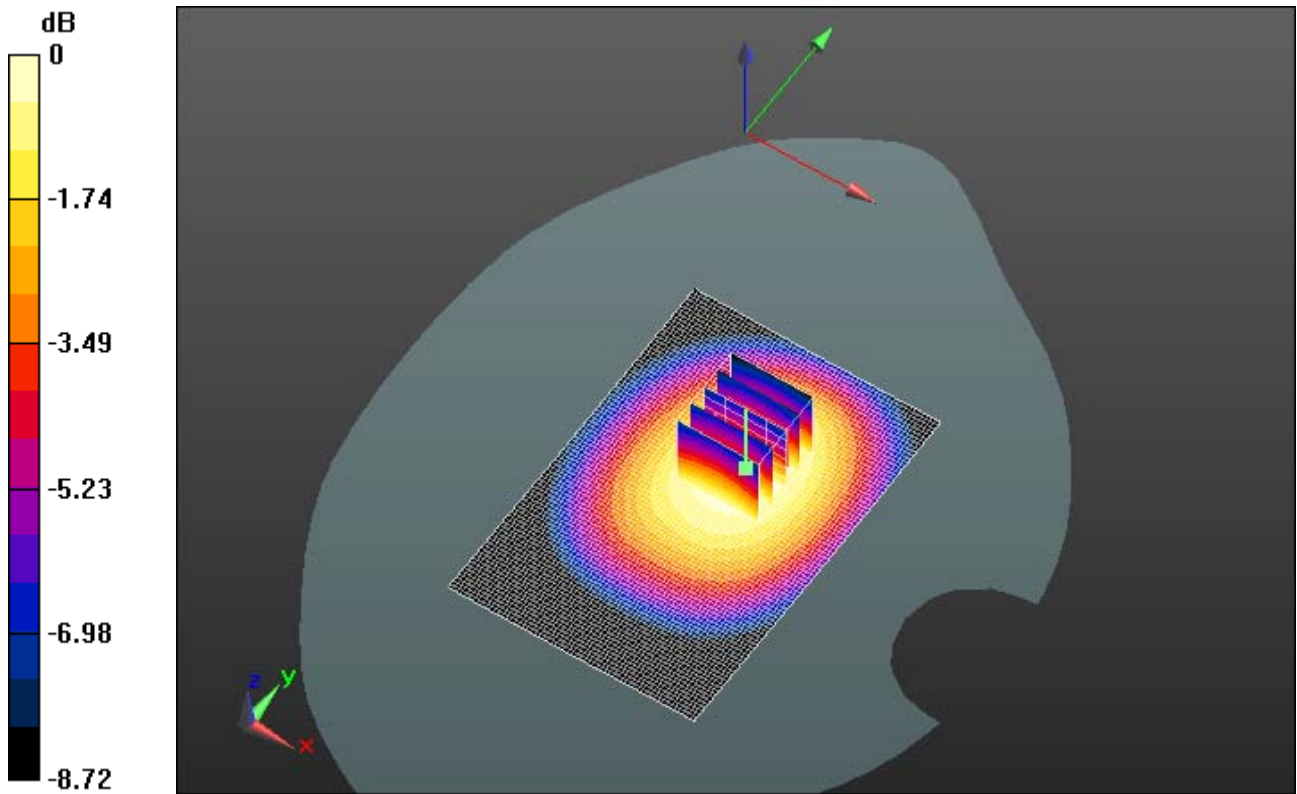
Author Data
Andrew Becker

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0 dB = 0.550mW/g = -5.19 dB mW/g

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Date/Time: 2/10/2012 3:24:39 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Back_UMTS_Band_V_mid_chan_amb_temp_23.1C_liq
_temp_20.3C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.996$ mho/m; $\epsilon_r = 55.769$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.669 mW/g

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

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


Reference Value = 25.888 V/m; Power Drift = 0.05 dB

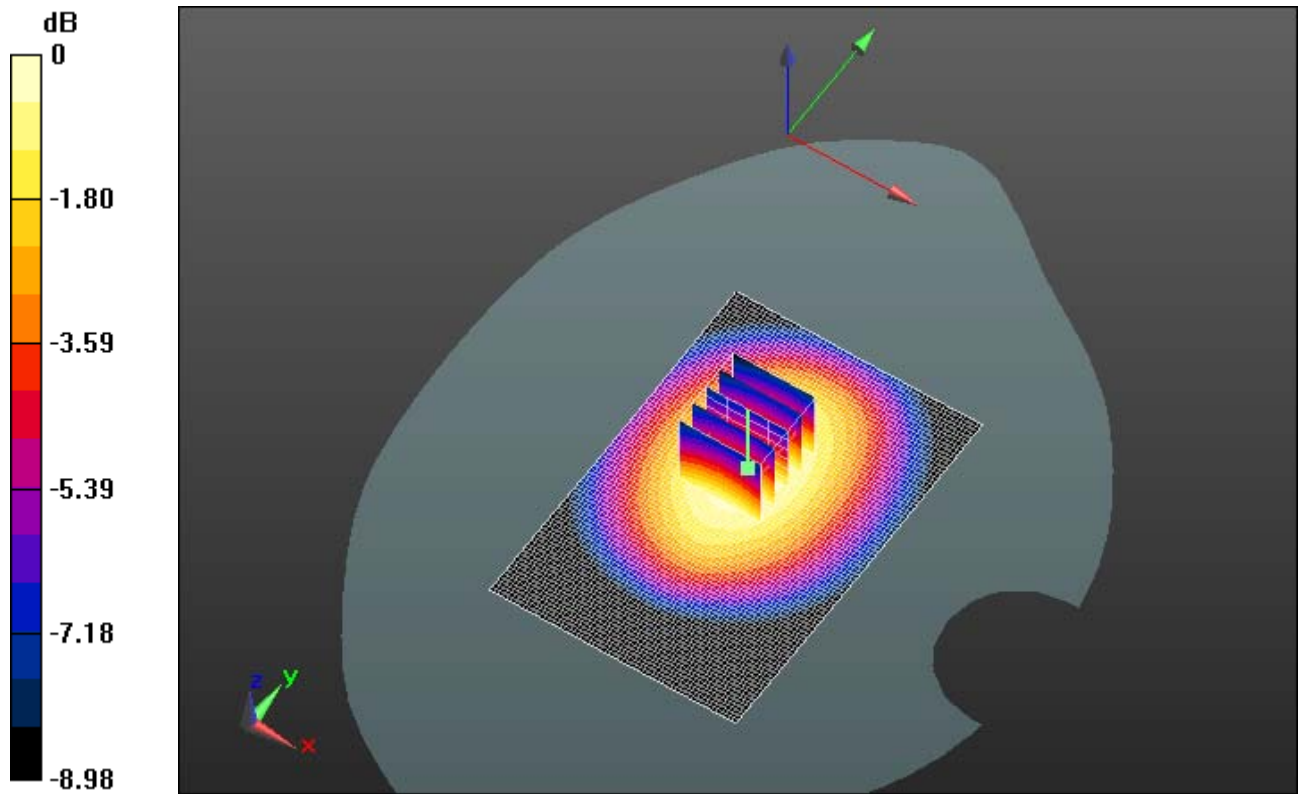
Peak SAR (extrapolated) = 0.7960

SAR(1 g) = 0.610 mW/g; SAR(10 g) = 0.447 mW/g


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

Maximum value of SAR (measured) = 0.681 mW/g

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0 dB = 0.680mW/g = -3.35 dB mW/g

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Date/Time: 2/10/2012 2:39:47 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_Headset_UMTS_Band_V_mid_chan_amb_temp_23.0C_liq_temp_20.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.996$ mho/m; $\epsilon_r = 55.769$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.363 mW/g

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

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

Reference Value = 17.264 V/m; Power Drift = 0.0035 dB

Peak SAR (extrapolated) = 0.4280

SAR(1 g) = 0.321 mW/g; SAR(10 g) = 0.232 mW/g

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

Maximum value of SAR (measured) = 0.359 mW/g

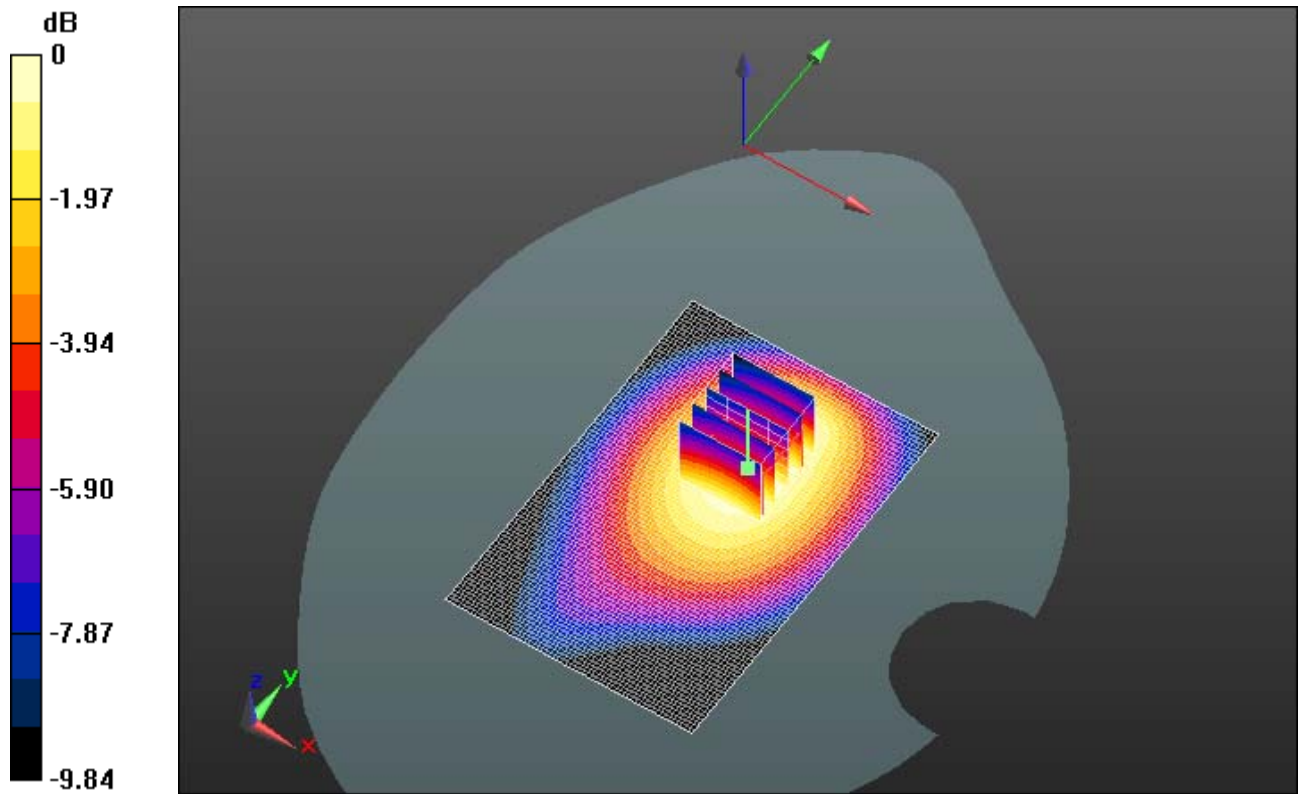
Author Data
Andrew Becker

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0 dB = 0.360mW/g = -8.87 dB mW/g

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Date/Time: 2/7/2012 12:19:33 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_GPRS1900_mid_chan_amb_temp_23.0C_liq_tem
p_20.3C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.525$ mho/m; $\epsilon_r = 52.799$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.446 mW/g

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

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

Reference Value = 6.966 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.6160

SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.432 mW/g

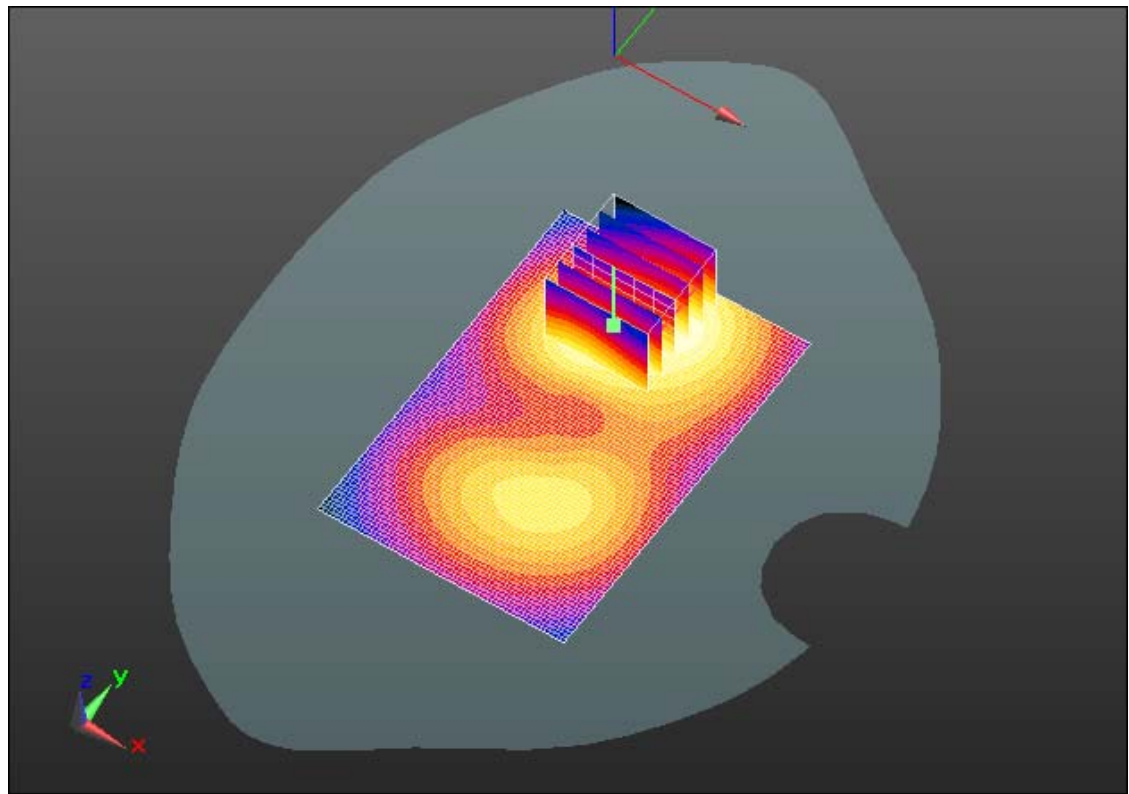
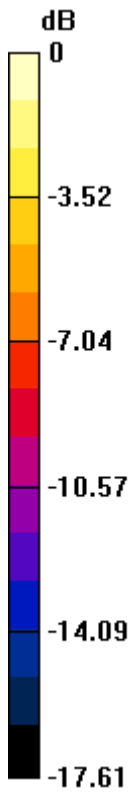
Author Data
Andrew Becker

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

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Date/Time: 2/7/2012 12:42:56 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Front_GPRS1900_mid_chan_amb_temp_23.0C_liq_tem
p_20.3C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.525 \text{ mho/m}$; $\epsilon_r = 52.799$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.399 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 = 9.904 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.5680

SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.380 mW/g

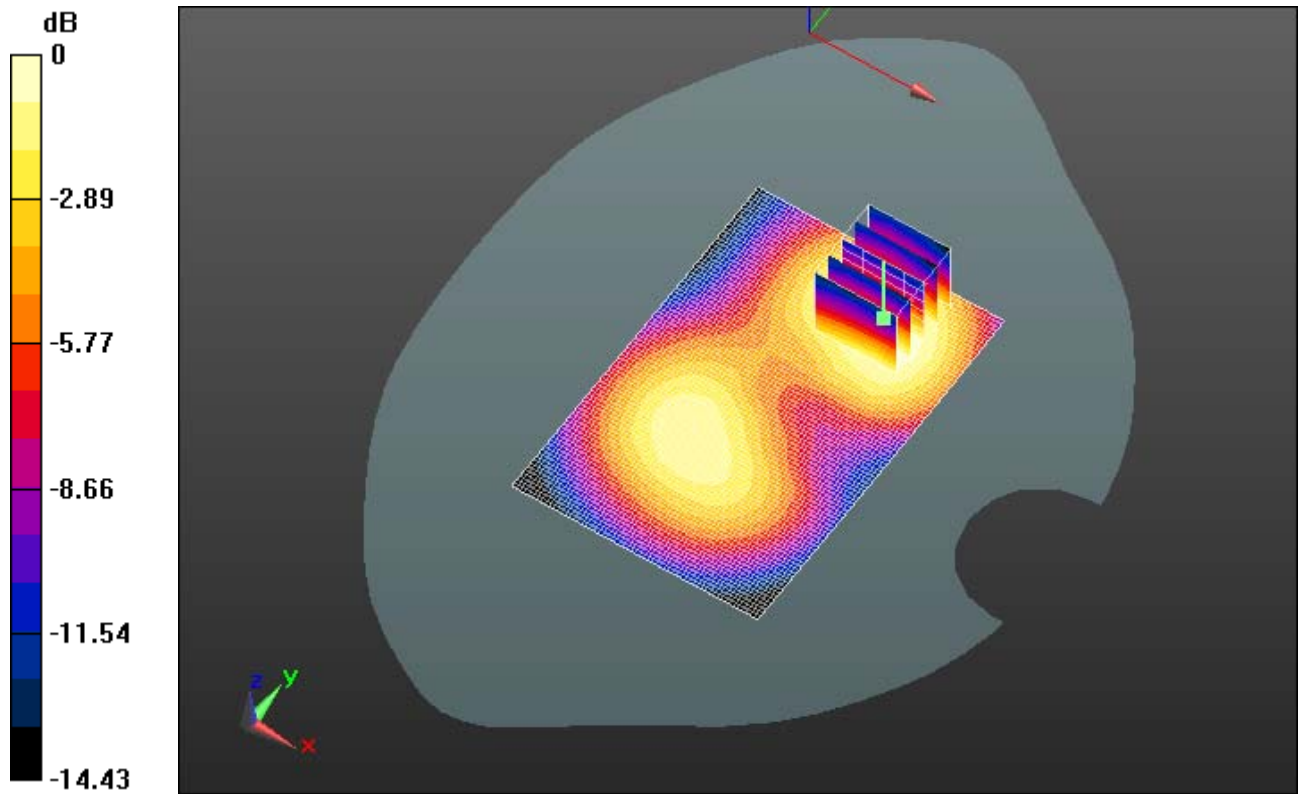
Author Data
Andrew Becker

Dates of Test
February 06 – March 6 , 2012


Test Report No
RTS-5992-1203-12

FCC ID:
L6AREV70UW

IC ID
2503A-REV70UW



0 dB = 0.380mW/g = -8.40 dB mW/g

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/7/2012 1:04:37 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS1900_mid_chan_amb_temp_23.1C_liq_temp_20.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.525 \text{ mho/m}$; $\epsilon_r = 52.799$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.341 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 = 5.476 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.4500

SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.196 mW/g

Maximum value of SAR (measured) = 0.334 mW/g

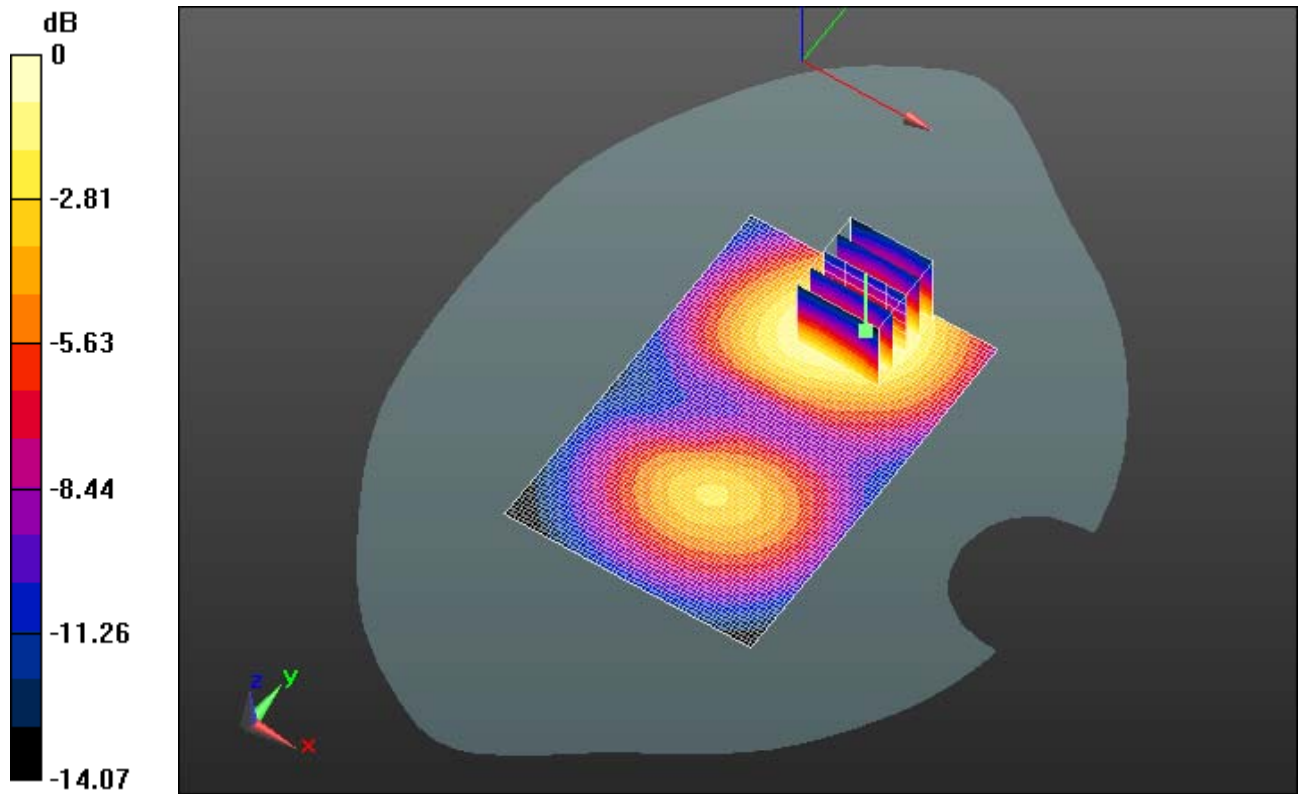
Author Data
Andrew Becker

Dates of Test
February 06 – March 6 , 2012


Test Report No
RTS-5992-1203-12

FCC ID:
L6AREV70UW

IC ID
2503A-REV70UW



0 dB = 0.330mW/g = -9.63 dB mW/g

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/7/2012 1:25:10 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_GPRS1900_mid_chan_amb_temp_23.0
C_liq_temp_20.3C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.525 \text{ mho/m}$; $\epsilon_r = 52.799$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.449 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 = 7.302 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.6270

SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.251 mW/g

Maximum value of SAR (measured) = 0.435 mW/g

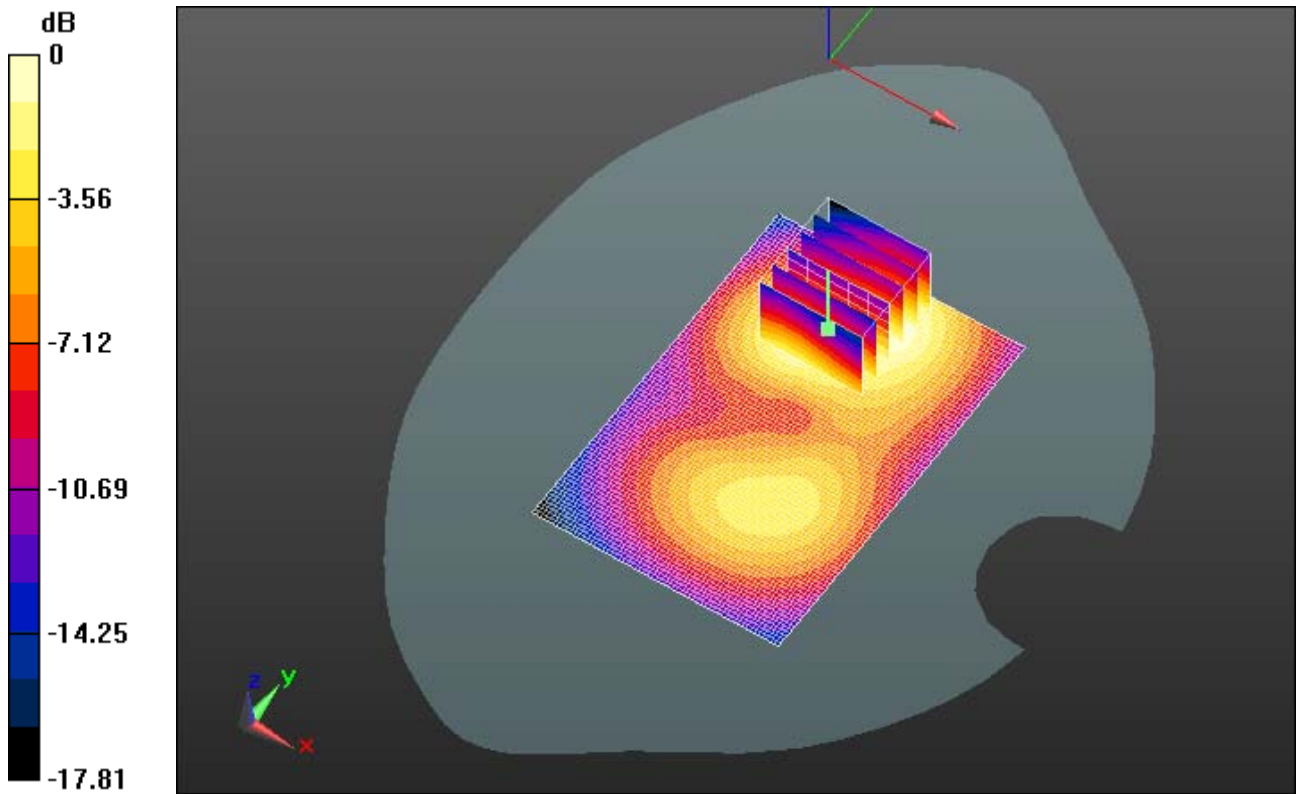
Author Data
Andrew Becker

Dates of Test
February 06 – March 6 , 2012


Test Report No
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L6AREV70UW

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

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/7/2012 3:19:08 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_UMTS_Band_II_mid_chan_amb_temp_22.8C_liq_t
emp_20.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.525$ mho/m; $\epsilon_r = 52.799$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.560 mW/g

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


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

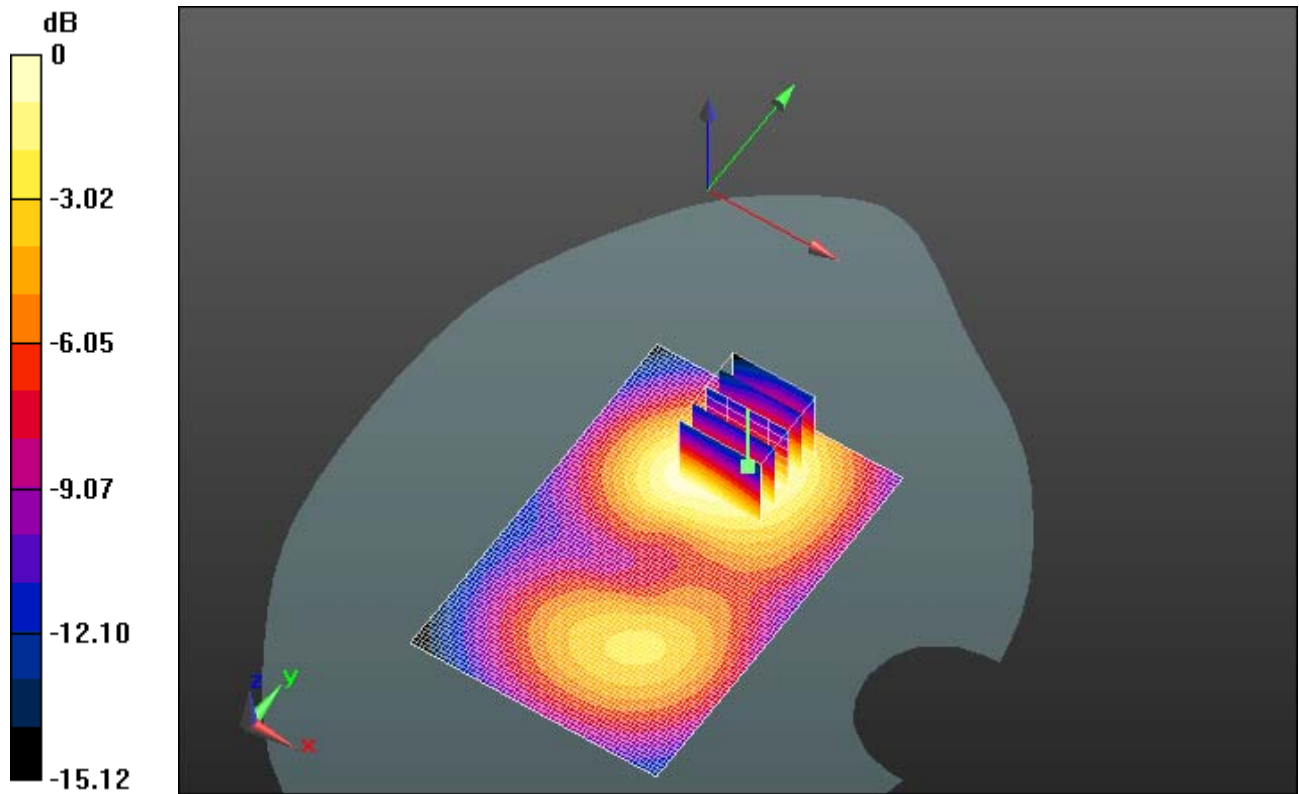
Reference Value = 8.098 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.7820


SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.327 mW/g

Maximum value of SAR (measured) = 0.560 mW/g

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW



0 dB = 0.560mW/g = -5.04 dB mW/g

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/7/2012 3:38:07 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Front_UMTS_Band_II_mid_chan_amb_temp_22.7C_liq_t
emp_20.7.C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.525$ mho/m; $\epsilon_r = 52.799$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.529 mW/g

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


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

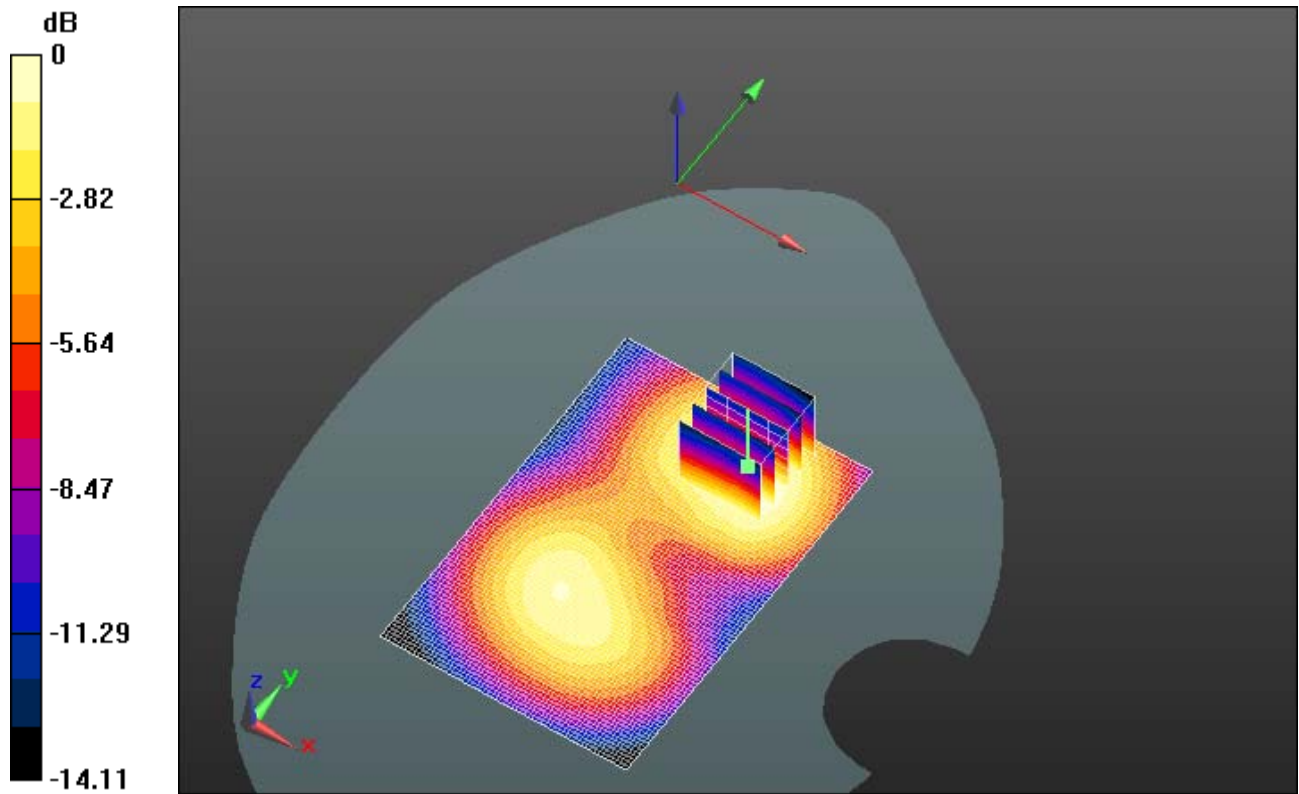
Reference Value = 11.776 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.7240


SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.295 mW/g

Maximum value of SAR (measured) = 0.496 mW/g

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

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/7/2012 4:22:53 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Back_UMTS_Band_II_mid_chan_amb_temp_22.9C_liq
_temp_20.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.525$ mho/m; $\epsilon_r = 52.799$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.447 mW/g

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

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

Reference Value = 7.355 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.6150

SAR(1 g) = 0.418 mW/g; SAR(10 g) = 0.265 mW/g

Maximum value of SAR (measured) = 0.452 mW/g

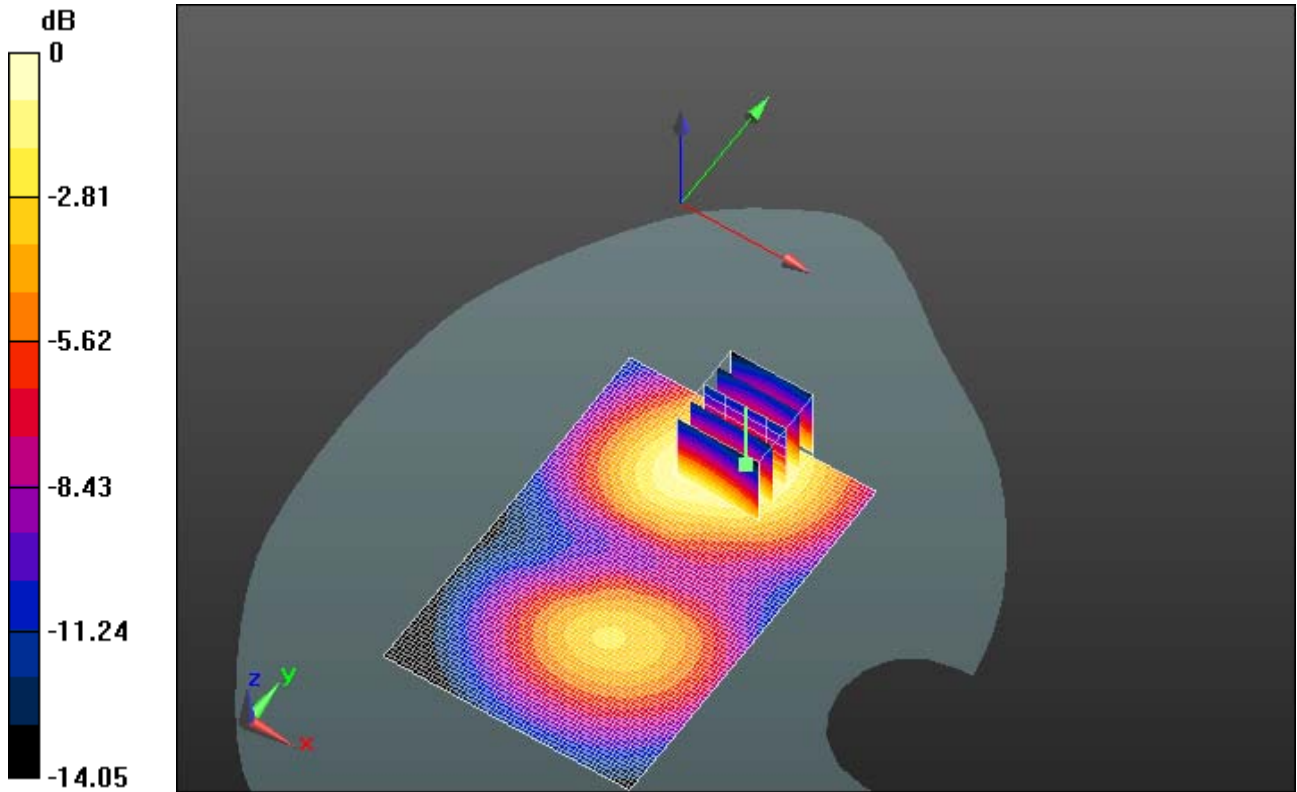
Author Data
Andrew Becker

Dates of Test
February 06 – March 6 , 2012


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IC ID
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0 dB = 0.450mW/g = -6.94 dB mW/g

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/7/2012 4:00:33 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_UMTS_Band_II_mid_chan_amb_temp_2
2.9C_liq_temp_20.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.525$ mho/m; $\epsilon_r = 52.799$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.529 mW/g

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


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

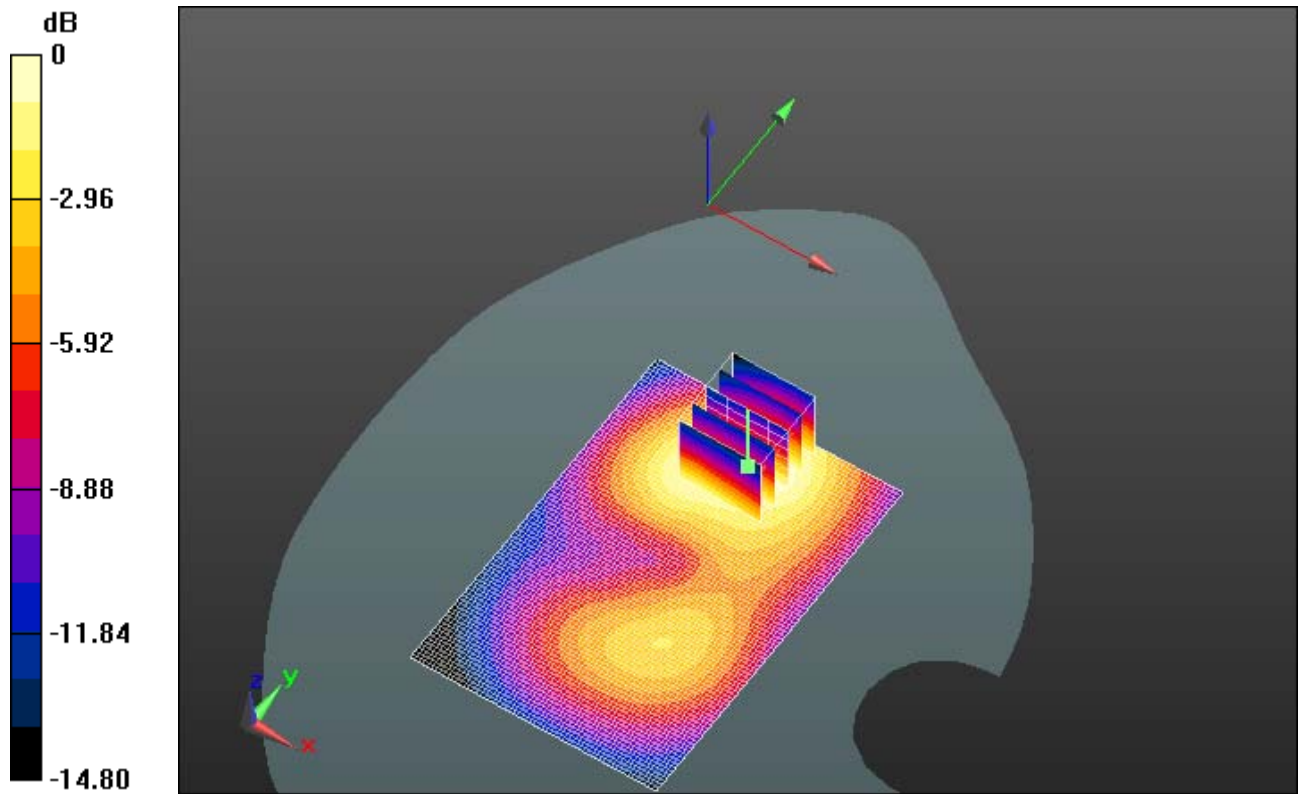
Reference Value = 8.419 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.7190


SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.527 mW/g

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0 dB = 0.530mW/g = -5.51 dB mW/g

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/16/2012 9:41:21 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_low_chan_amb_temp_22.4_liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295B50C4

Communication System: 802.11 b (2450); Frequency: 2412 MHz

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.944$ mho/m; $\epsilon_r = 51.535$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.154 mW/g

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

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

Reference Value = 3.327 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.2130

SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.070 mW/g

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

Maximum value of SAR (measured) = 0.146 mW/g

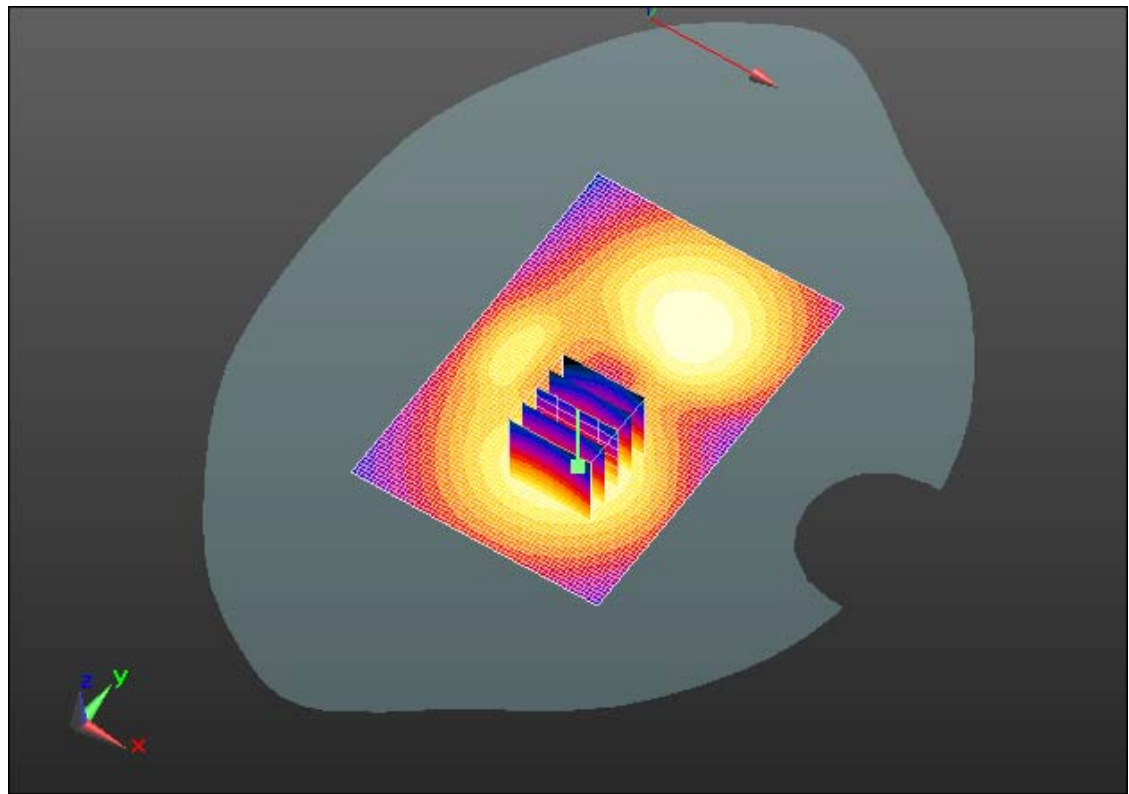
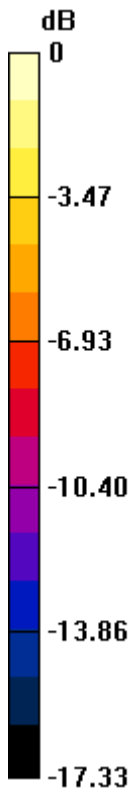
Author Data
Andrew Becker

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IC ID
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0 dB = 0.150mW/g = -16.48 dB mW/g

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/16/2012 10:06:31 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_mid_chan_amb_temp_22.4_liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295B50C4

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.458$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.212 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 = 3.320 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.3020

SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.096 mW/g

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

Maximum value of SAR (measured) = 0.201 mW/g

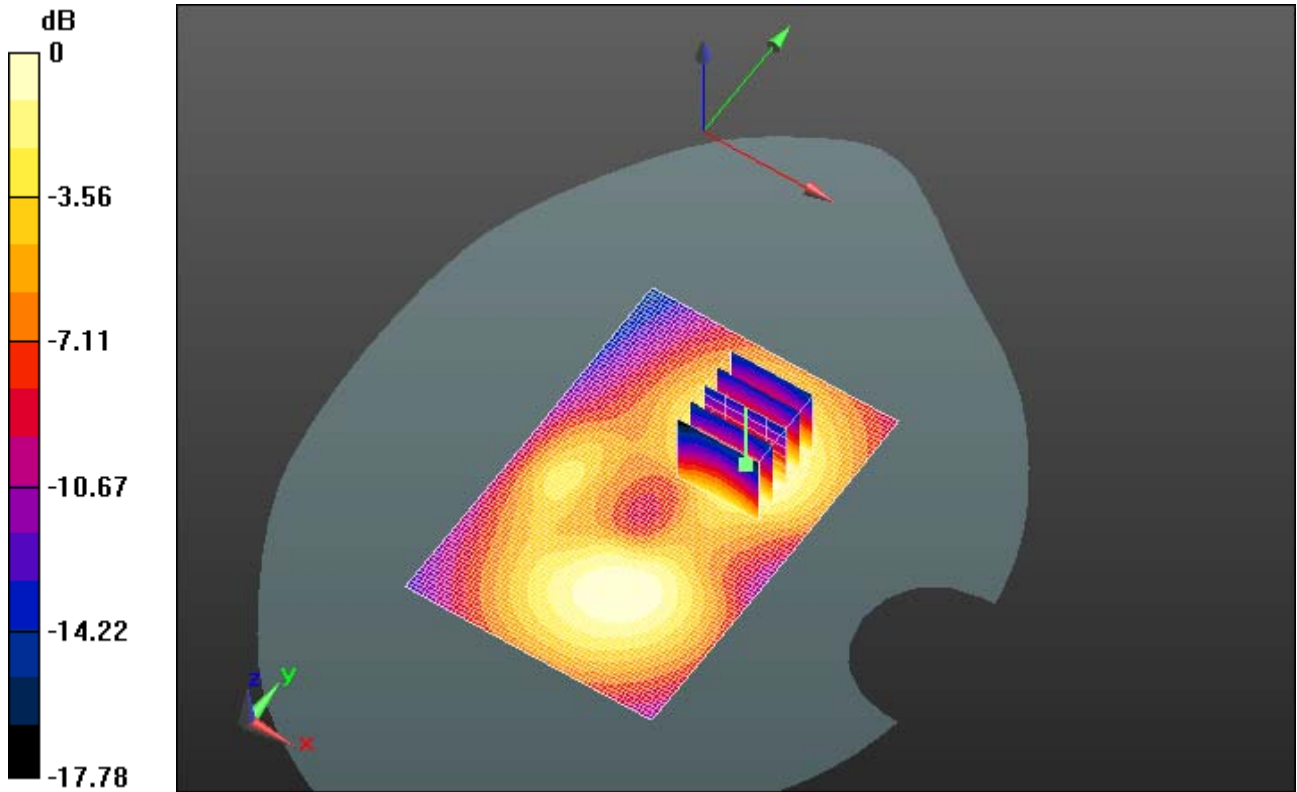
Author Data
Andrew Becker

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0 dB = 0.200mW/g = -13.98 dB mW/g

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Date/Time: 2/16/2012 10:41:17 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_802.11b_high_chan_amb_temp_22.4_liq_temp_21
.2C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295B50C4

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

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 2.015$ mho/m; $\epsilon_r = 51.39$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.175 mW/g

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

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

Reference Value = 3.669 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.2520

SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.079 mW/g

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

Maximum value of SAR (measured) = 0.168 mW/g

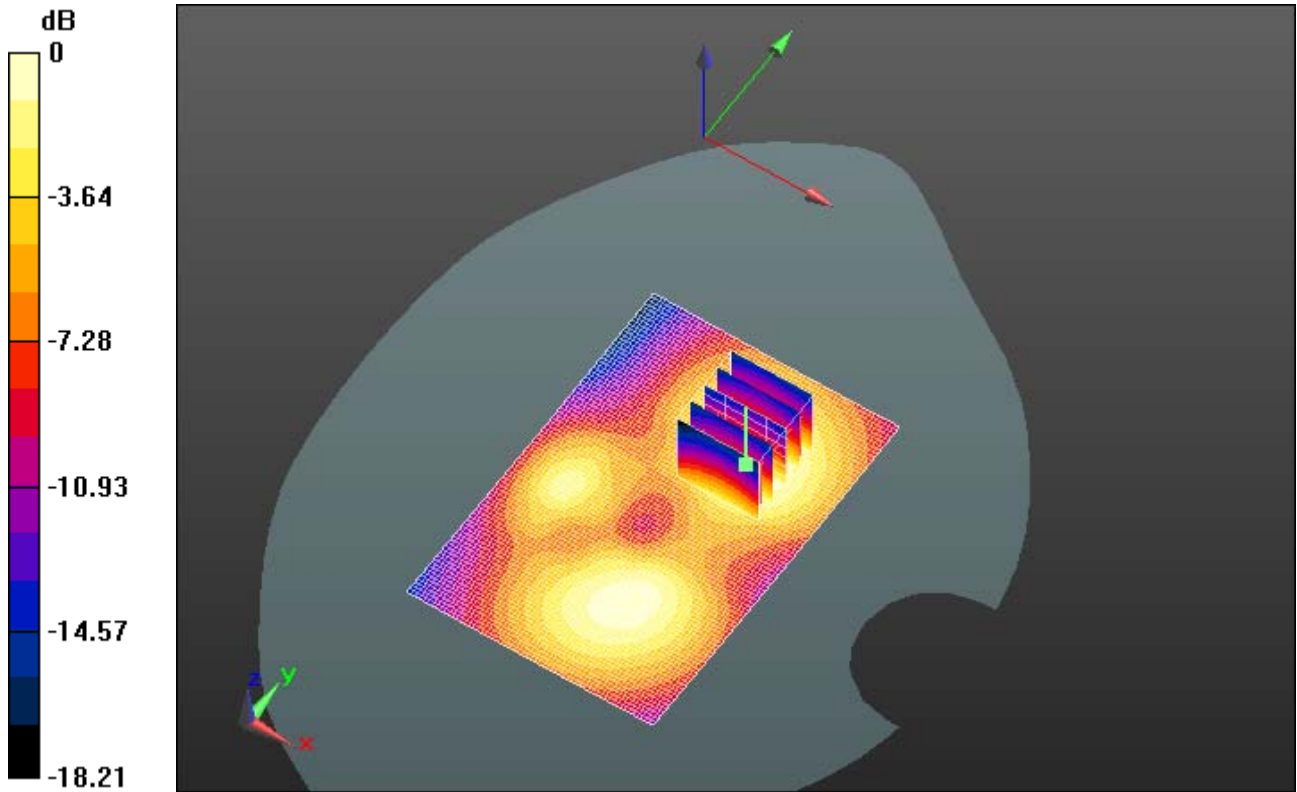
Author Data
Andrew Becker

Dates of Test
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Test Report No
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IC ID
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0 dB = 0.170mW/g = -15.39 dB mW/g

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/16/2012 11:21:25 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_802.11b_mid_chan_amb_temp_22.3_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295B50C4

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.458$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.082 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 = 2.321 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.1130

SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.037 mW/g

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

Maximum value of SAR (measured) = 0.074 mW/g

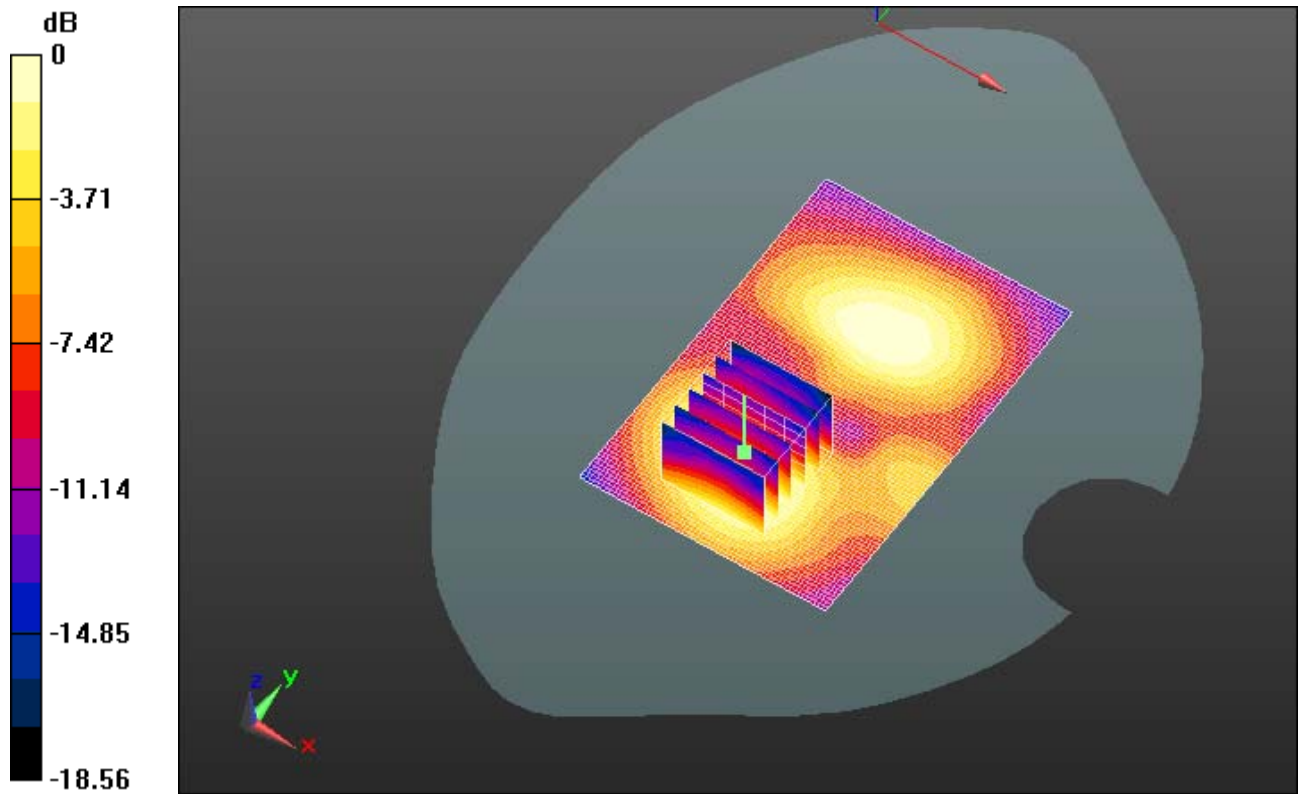
Author Data
Andrew Becker

Dates of Test
February 06 – March 6 , 2012


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

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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

Date/Time: 2/16/2012 1:04:49 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_802.11b_mid_chan_amb_temp_22.4_liq_temp_2 1.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295B50C4

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.458$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.00135 mW/g

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

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

Reference Value = 0.784 V/m; Power Drift = 0.68 dB

Peak SAR (extrapolated) = 0.003610

SAR(1 g) = 0.000803 mW/g; SAR(10 g) = 0.000317 mW/g

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

Maximum value of SAR (measured) = 0.00138 mW/g

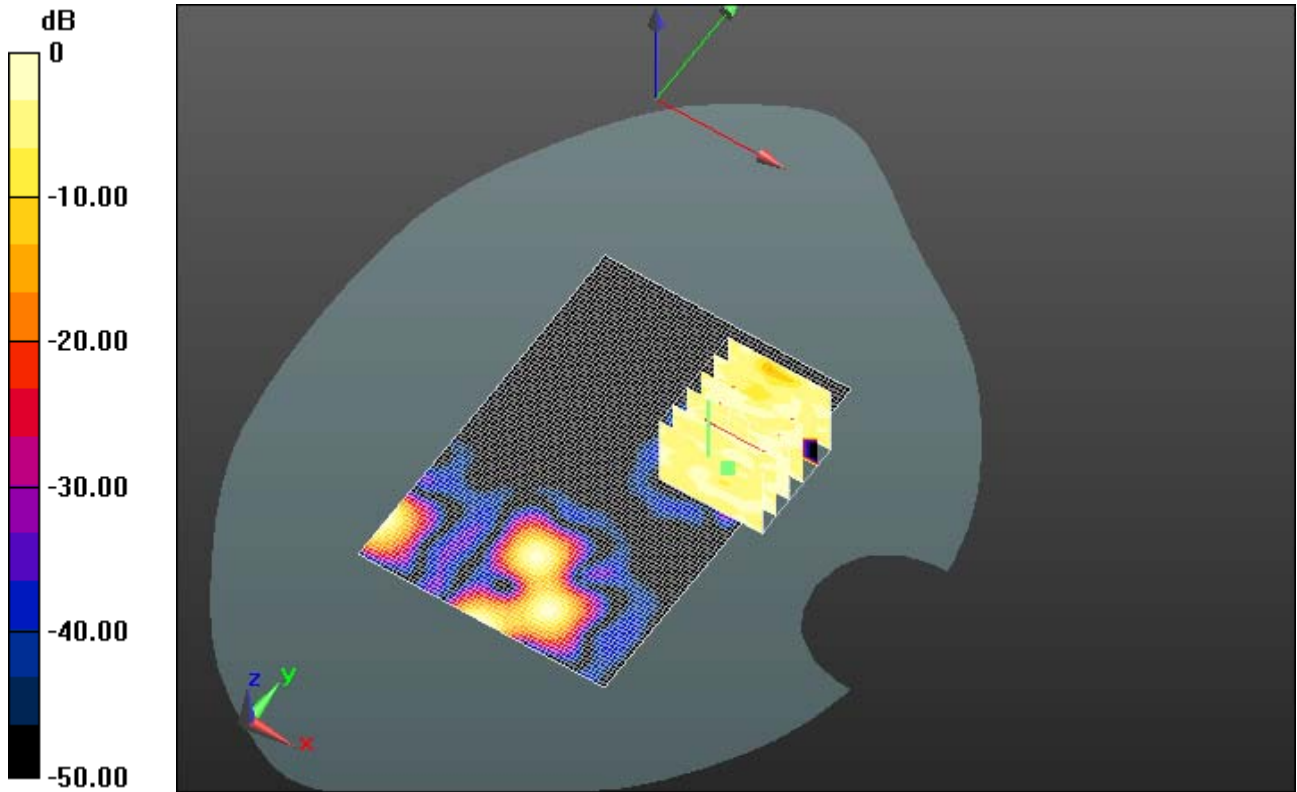
Author Data
Andrew Becker

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L6AREV70UW

IC ID
2503A-REV70UW



0 dB = 0.0014mW/g = -57.08 dB mW/g

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Date/Time: 2/16/2012 11:52:11 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_802.11b_mid_chan_amb_temp_22.5_liq_
temp_21.3C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295B50C4

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.458$; $\rho = 1000$ 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 Sn472; Calibrated: 3/7/2011
- 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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.199 mW/g

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

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

Reference Value = 3.472 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.2800

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.089 mW/g

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

Maximum value of SAR (measured) = 0.188 mW/g

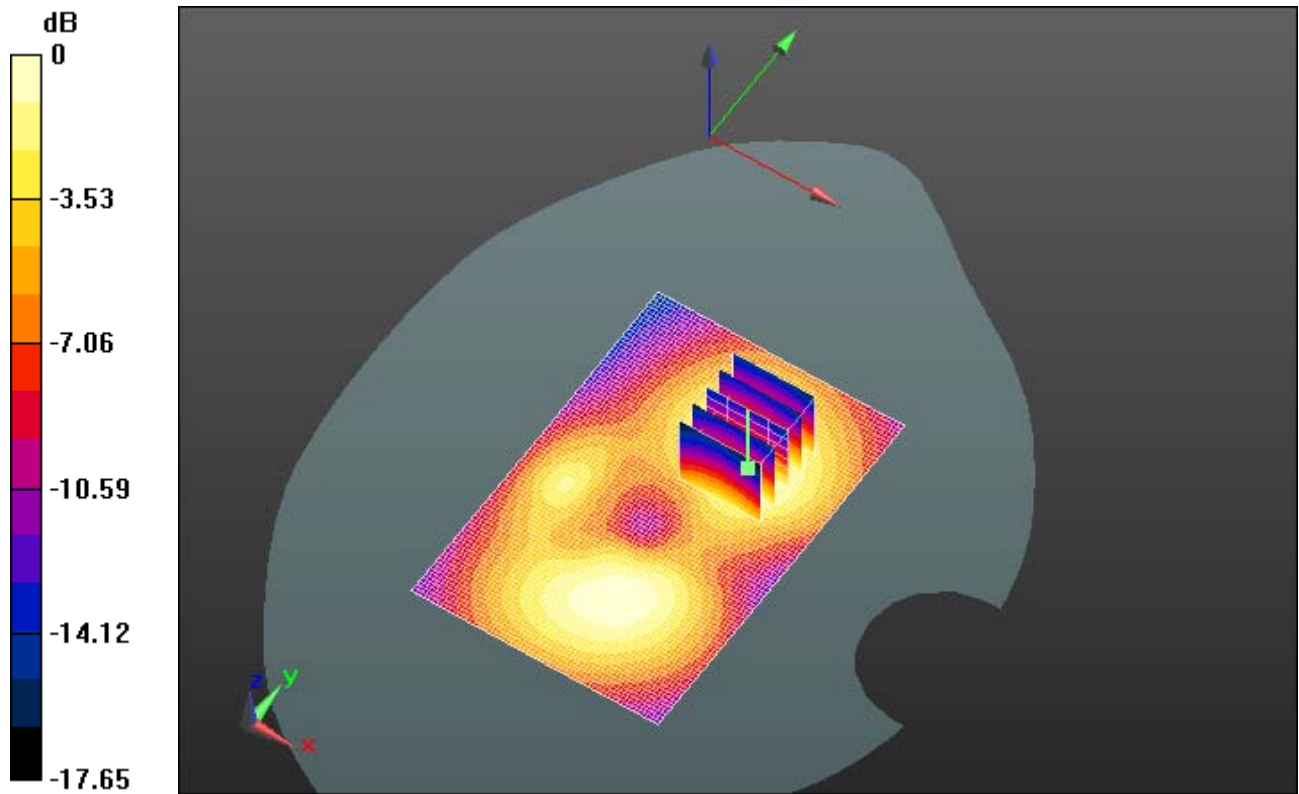
Author Data
Andrew Becker

Dates of Test
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IC ID
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0 dB = 0.190mW/g = -14.42 dB mW/g

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Z axis plot for the worst case body configuration

