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	Author Data Andrew Becker	Dates of Test September 27 – October26, 2011	Test Report No RTS-5955-1110-23	FCC ID: L6AREQ70UW

APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 10/6/2011 11:52:28 AM, Date/Time: 10/6/2011 11:59:20 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_mid_chan_amb_temp_24.1_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.858 mW/g

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

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


Reference Value = 28.103 V/m; Power Drift = 0.17 dB

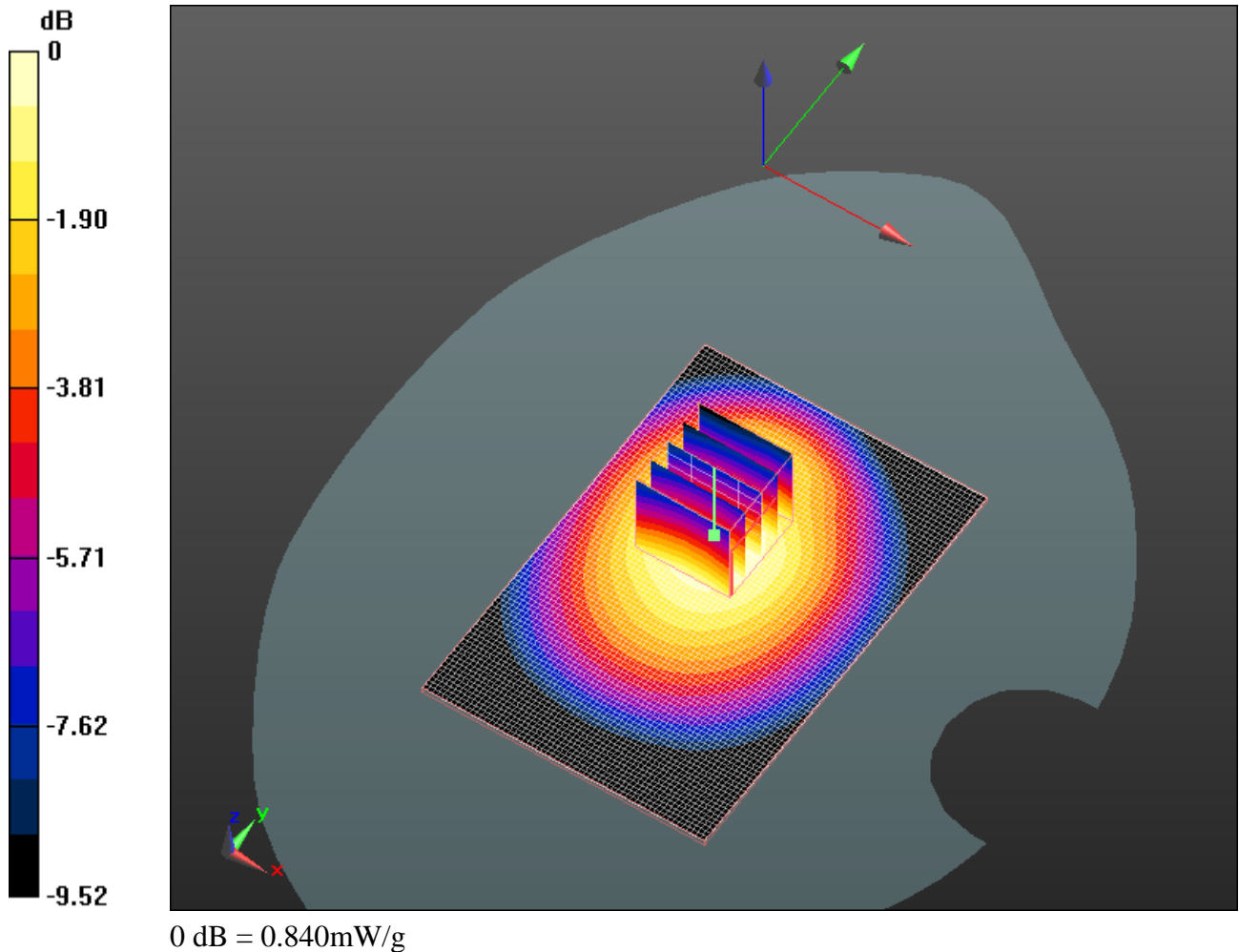
Peak SAR (extrapolated) = 1.015 W/kg


SAR(1 g) = 0.745 mW/g; SAR(10 g) = 0.545 mW/g

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

Maximum value of SAR (measured) = 0.837 mW/g

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Date/Time: 10/6/2011 12:40:19 PM, Date/Time: 10/6/2011 12:47:13 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_3-slots_low_chan_amb_temp_24.1_
liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322


Communication System: GPRS 850 (3 slots); Frequency: 824.2 MHz
Medium parameters used: $f = 825$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 54.32$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

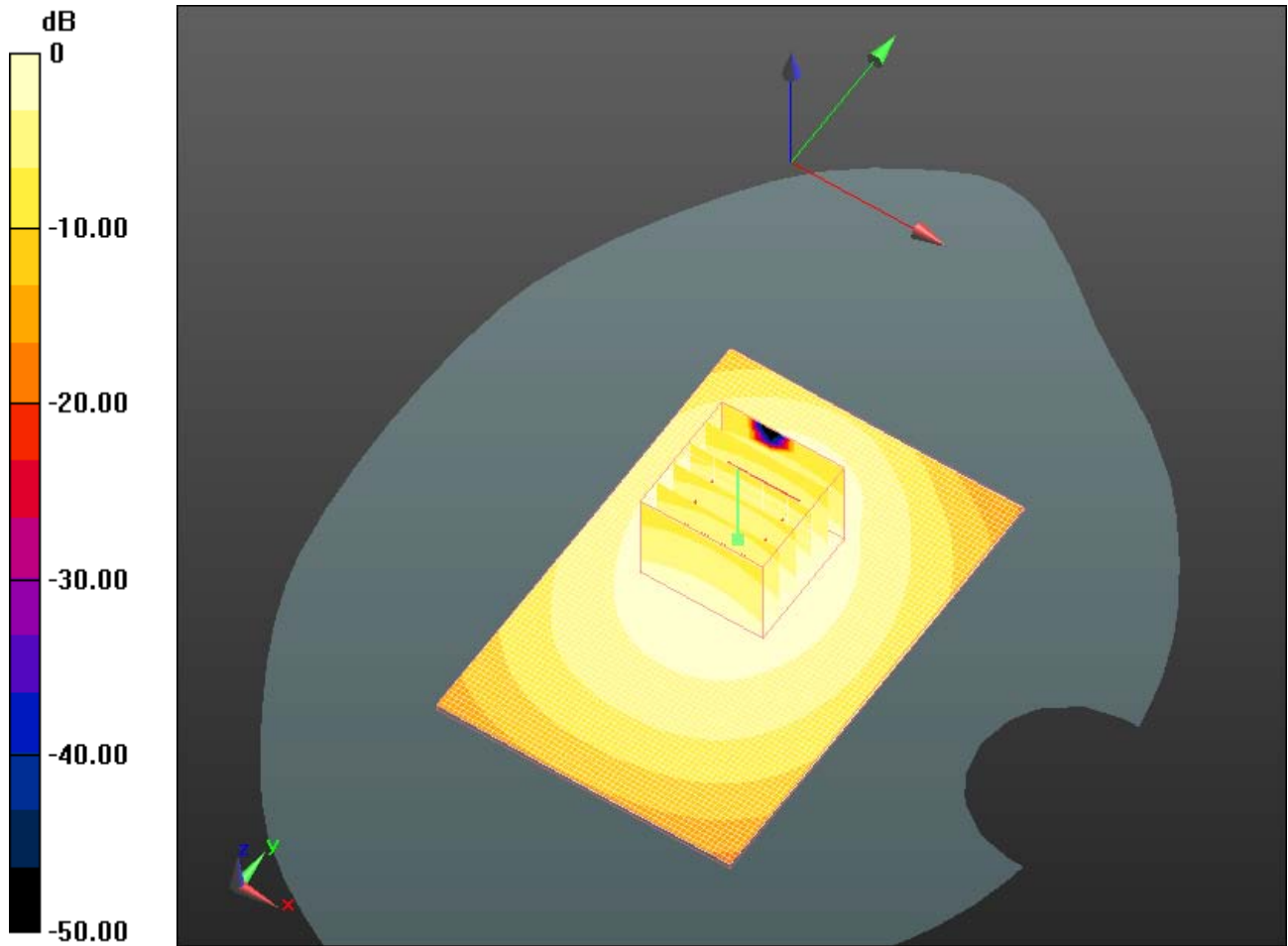
DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.052 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.271 V/m; Power Drift = -0.30 dB
Peak SAR (extrapolated) = 1.217 W/kg
SAR(1 g) = 0.911 mW/g; SAR(10 g) = 0.662 mW/g
Maximum value of SAR (measured) = 1.009 mW/g

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0 dB = 1.010mW/g

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Date/Time: 10/6/2011 12:10:09 PM, Date/Time: 10/6/2011 12:27:55 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_3-slots_mid_chan_amb_temp_24.0_
liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 850 (3 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.999 mW/g

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

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


Reference Value = 30.369 V/m; Power Drift = -0.30 dB

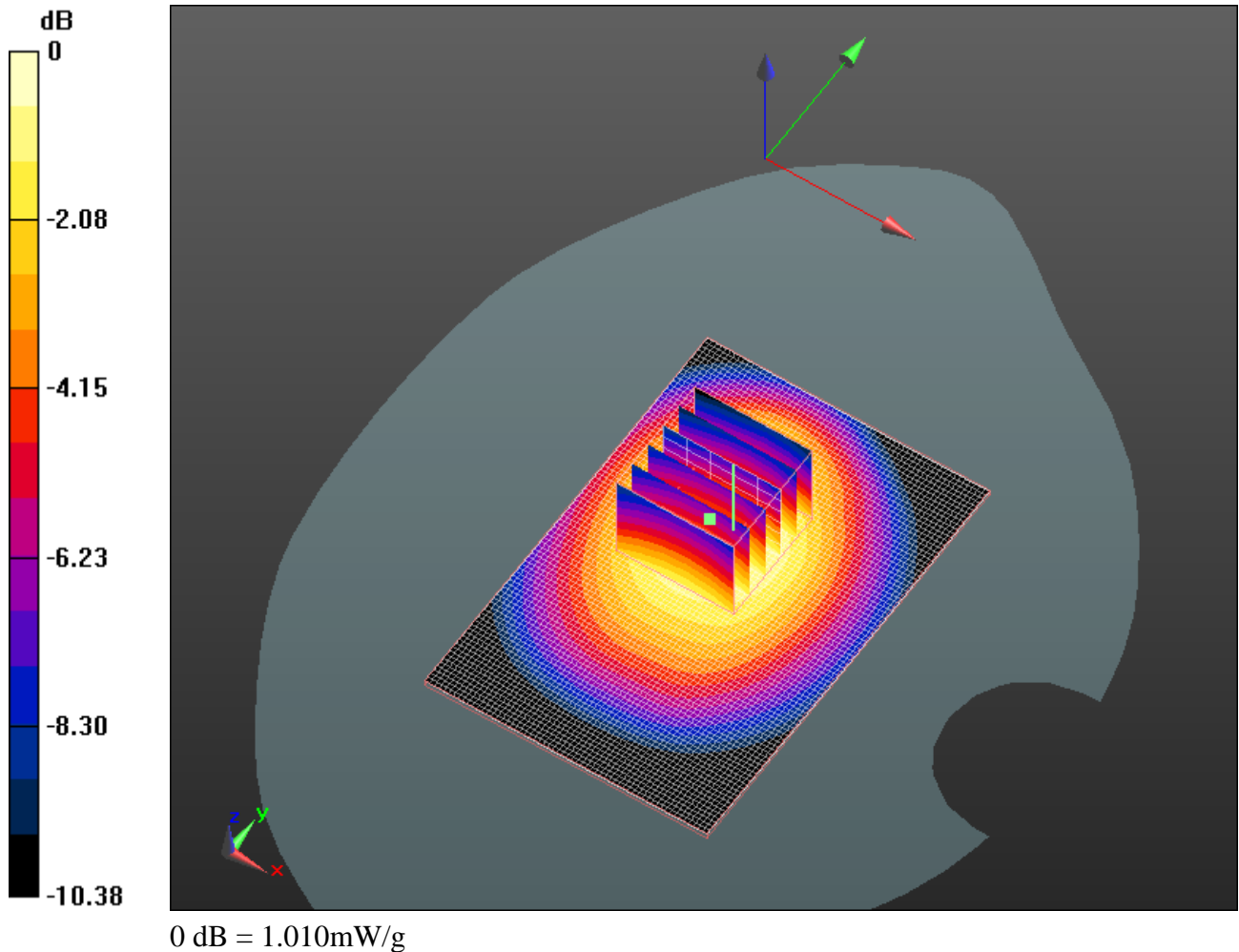
Peak SAR (extrapolated) = 1.235 W/kg


SAR(1 g) = 0.909 mW/g; SAR(10 g) = 0.658 mW/g

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

Maximum value of SAR (measured) = 1.011 mW/g

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Date/Time: 10/6/2011 12:59:07 PM, Date/Time: 10/6/2011 1:35:28 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_3-slots_high_chan_amb_temp_23.0_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 850 (3 slots); Frequency: 848.8 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.995$ mho/m; $\epsilon_r = 54.029$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.819 mW/g

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

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


Reference Value = 27.504 V/m; Power Drift = 0.22 dB

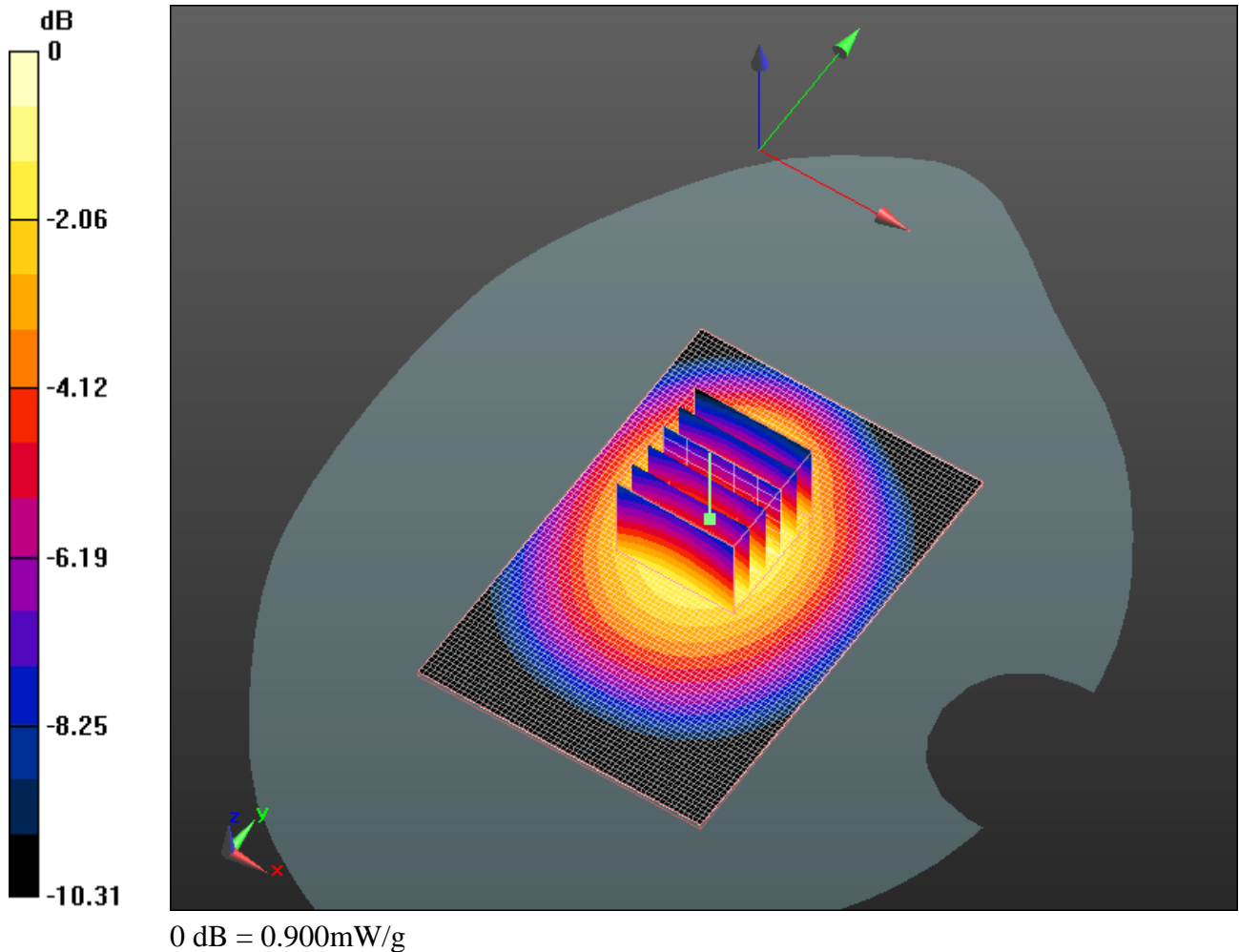
Peak SAR (extrapolated) = 1.096 W/kg


SAR(1 g) = 0.797 mW/g; SAR(10 g) = 0.572 mW/g

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

Maximum value of SAR (measured) = 0.905 mW/g

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Date/Time: 10/6/2011 2:43:28 PM, Date/Time: 10/6/2011 2:55:14 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_GPRS850_3-slots_mid_chan_amb_temp_22.8_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 850 (3 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.606 mW/g

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

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

Reference Value = 21.941 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.719 W/kg

SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.382 mW/g

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

Maximum value of SAR (measured) = 0.593 mW/g

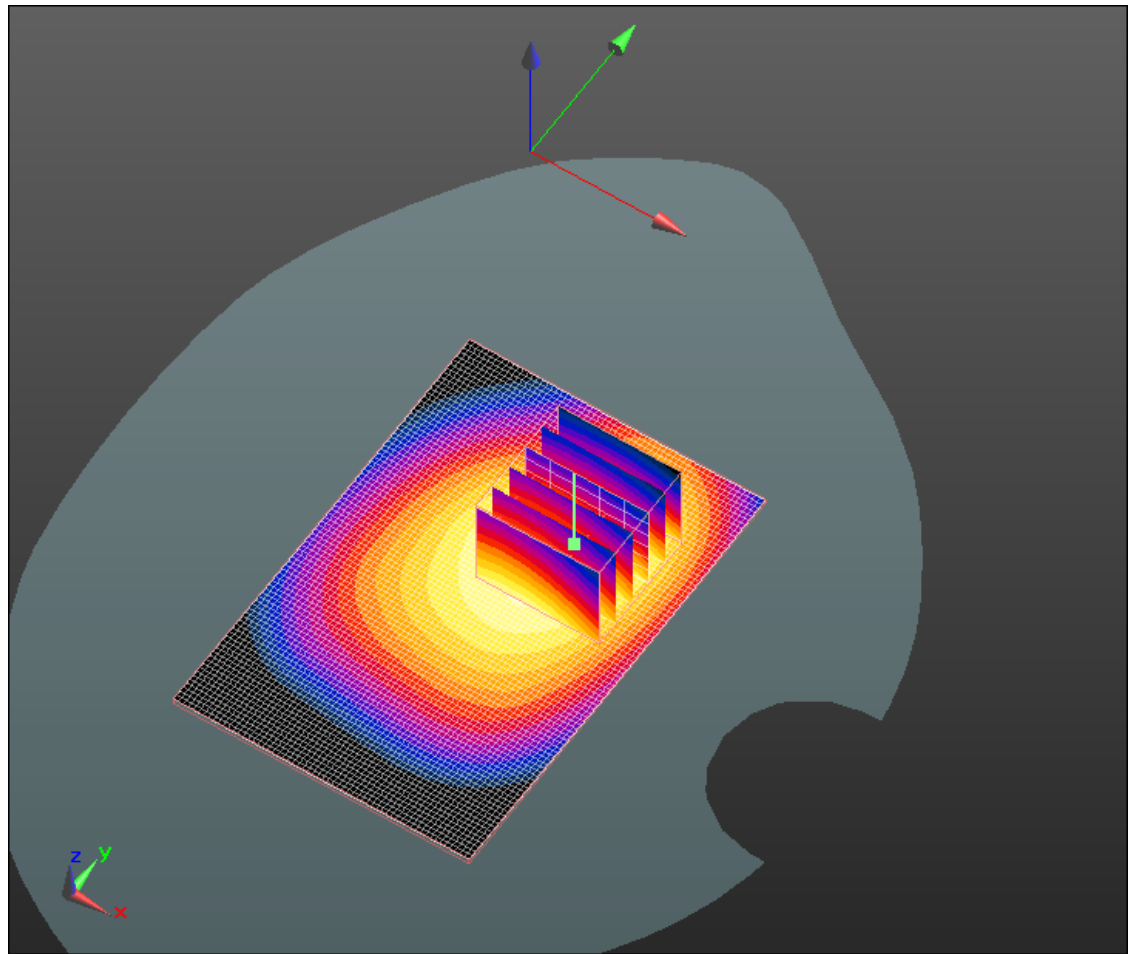
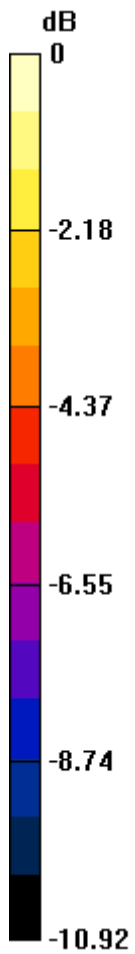
Author Data
Andrew Becker

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2503A-REQ70UW



0 dB = 0.590mW/g

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Date/Time: 10/6/2011 3:57:28 PM, Date/Time: 10/6/2011 4:04:17 PM

Test Laboratory: RIM Testing Services

Leather_Holster_Front_GPRS850_3-slots_mid_chan_amb_temp_23.3_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 850 (3 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.537 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (7x7x7)/Cube 0:

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


Reference Value = 22.937 V/m; Power Drift = -0.15 dB

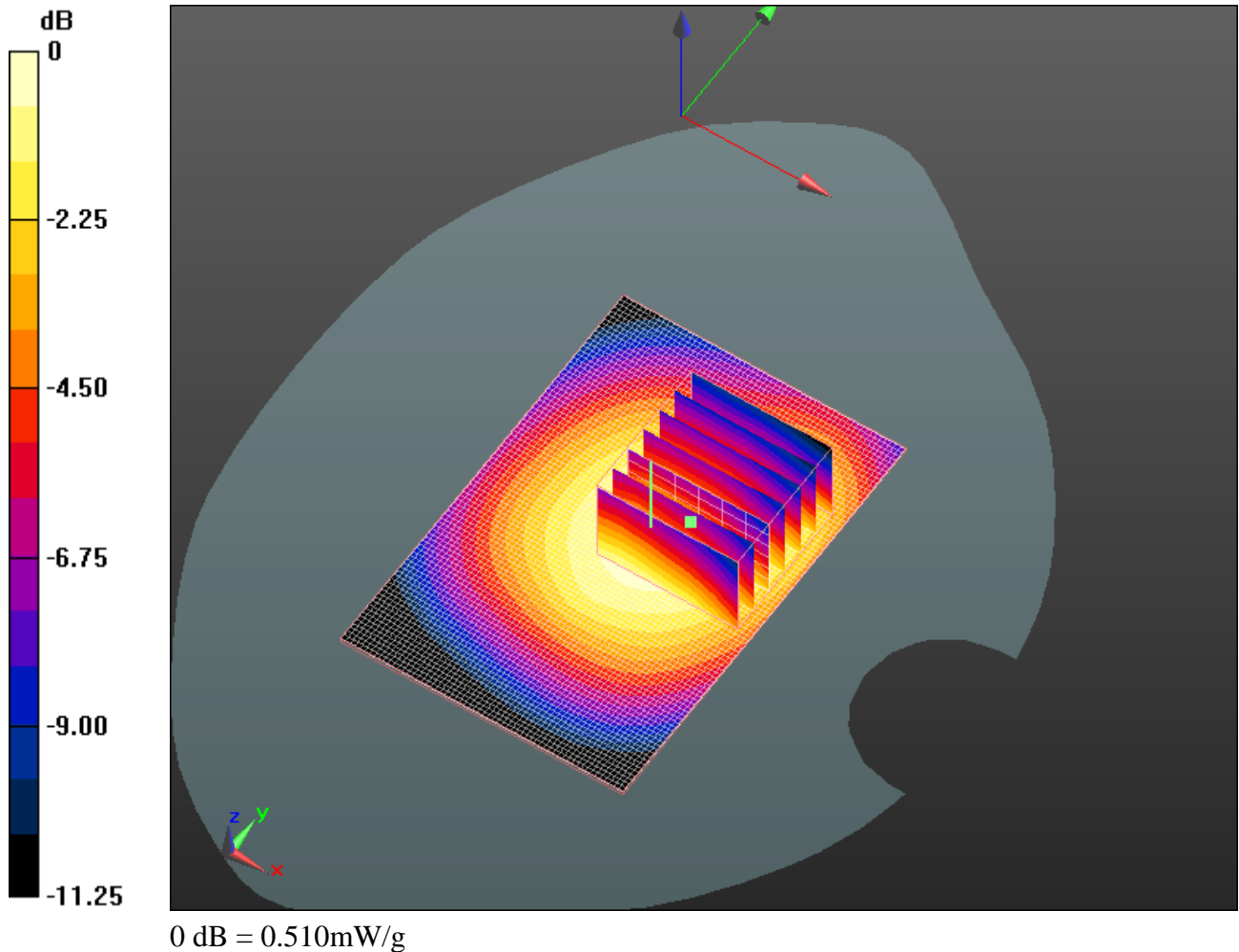
Peak SAR (extrapolated) = 0.605 W/kg


SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.342 mW/g

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

Maximum value of SAR (measured) = 0.508 mW/g

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Date/Time: 10/6/2011 2:24:34 PM, Date/Time: 10/6/2011 2:31:24 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_HS_GPRS850_3-slots_mid_chan_amb_temp_22.7
_liq_temp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 850 (3 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.914 mW/g

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

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


Reference Value = 28.389 V/m; Power Drift = -0.22 dB

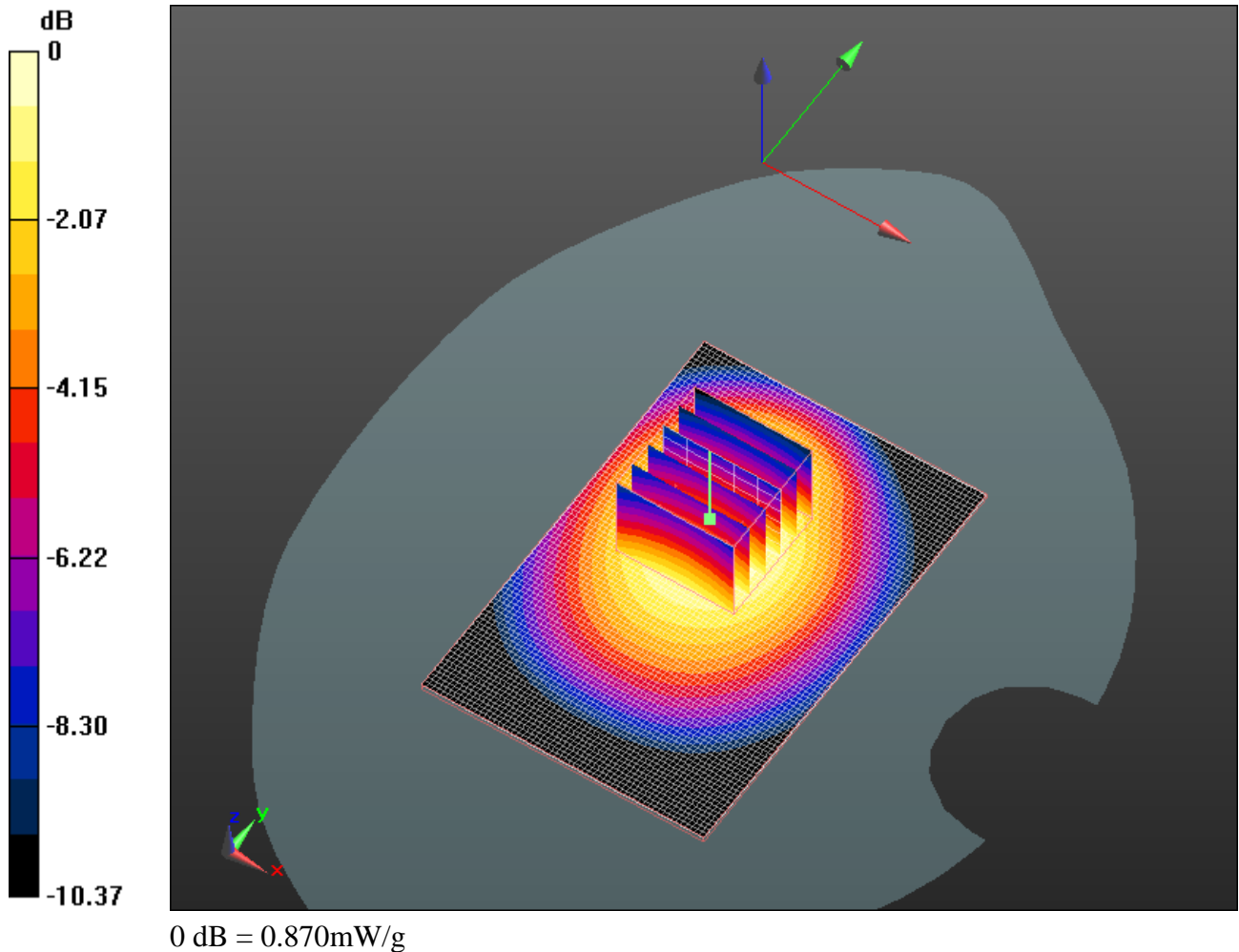
Peak SAR (extrapolated) = 1.079 W/kg


SAR(1 g) = 0.785 mW/g; SAR(10 g) = 0.565 mW/g

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

Maximum value of SAR (measured) = 0.872 mW/g

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Date/Time: 10/6/2011 1:48:32 PM, Date/Time: 10/6/2011 2:12:07 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_GPRS850_4-slots_mid_chan_amb_temp_22.9
_liq_temp_22.2C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 850 (4 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.805 mW/g

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

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


Reference Value = 27.650 V/m; Power Drift = -0.07 dB

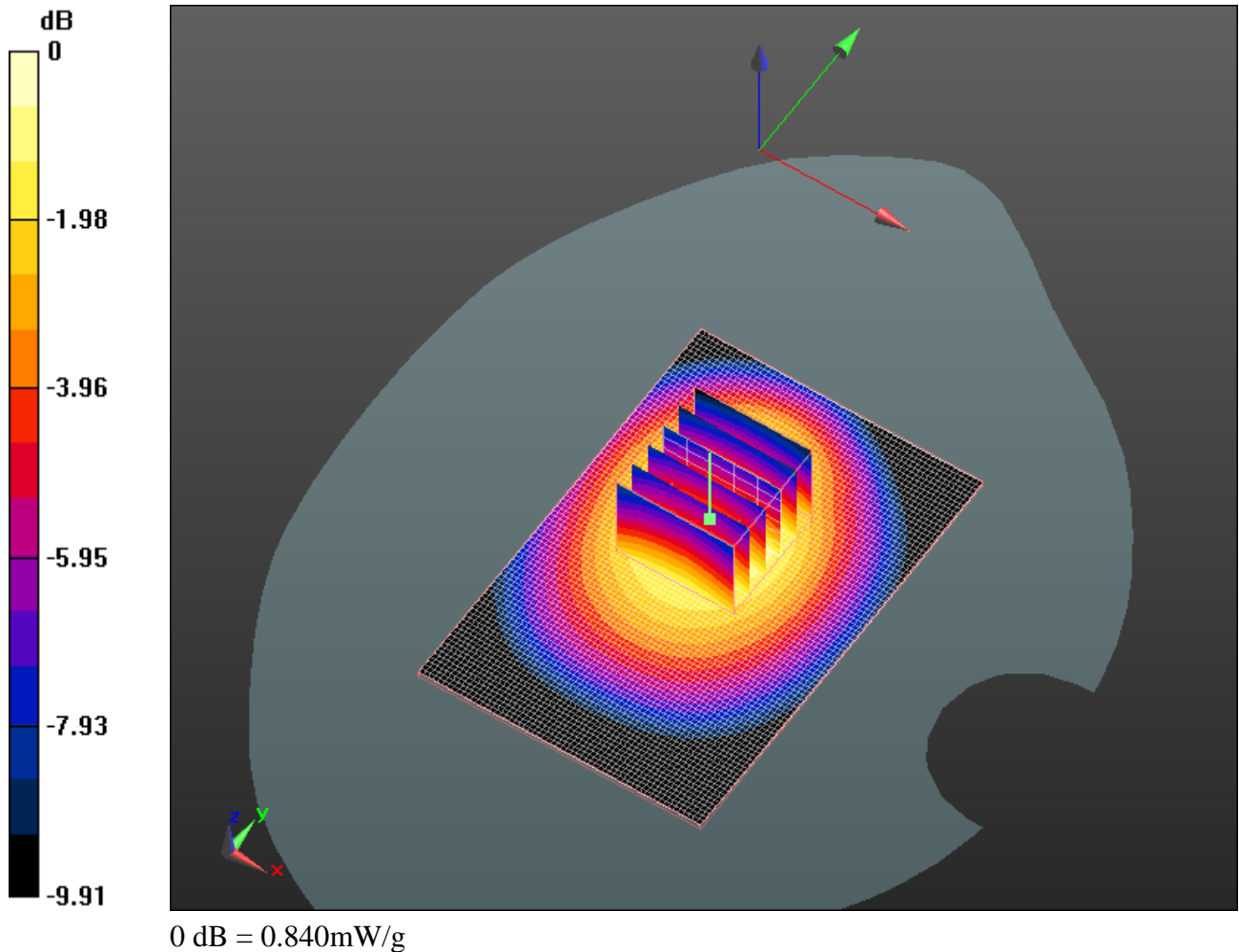
Peak SAR (extrapolated) = 1.022 W/kg


SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.552 mW/g

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

Maximum value of SAR (measured) = 0.844 mW/g

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Date/Time: 10/5/2011 8:14:06 PM, Date/Time: 10/5/2011 8:21:00 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_V_mid_chan_amb_temp_23.2_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.19$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.887 mW/g

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

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

Reference Value = 26.944 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.078 W/kg

SAR(1 g) = 0.793 mW/g; SAR(10 g) = 0.574 mW/g

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

Maximum value of SAR (measured) = 0.883 mW/g

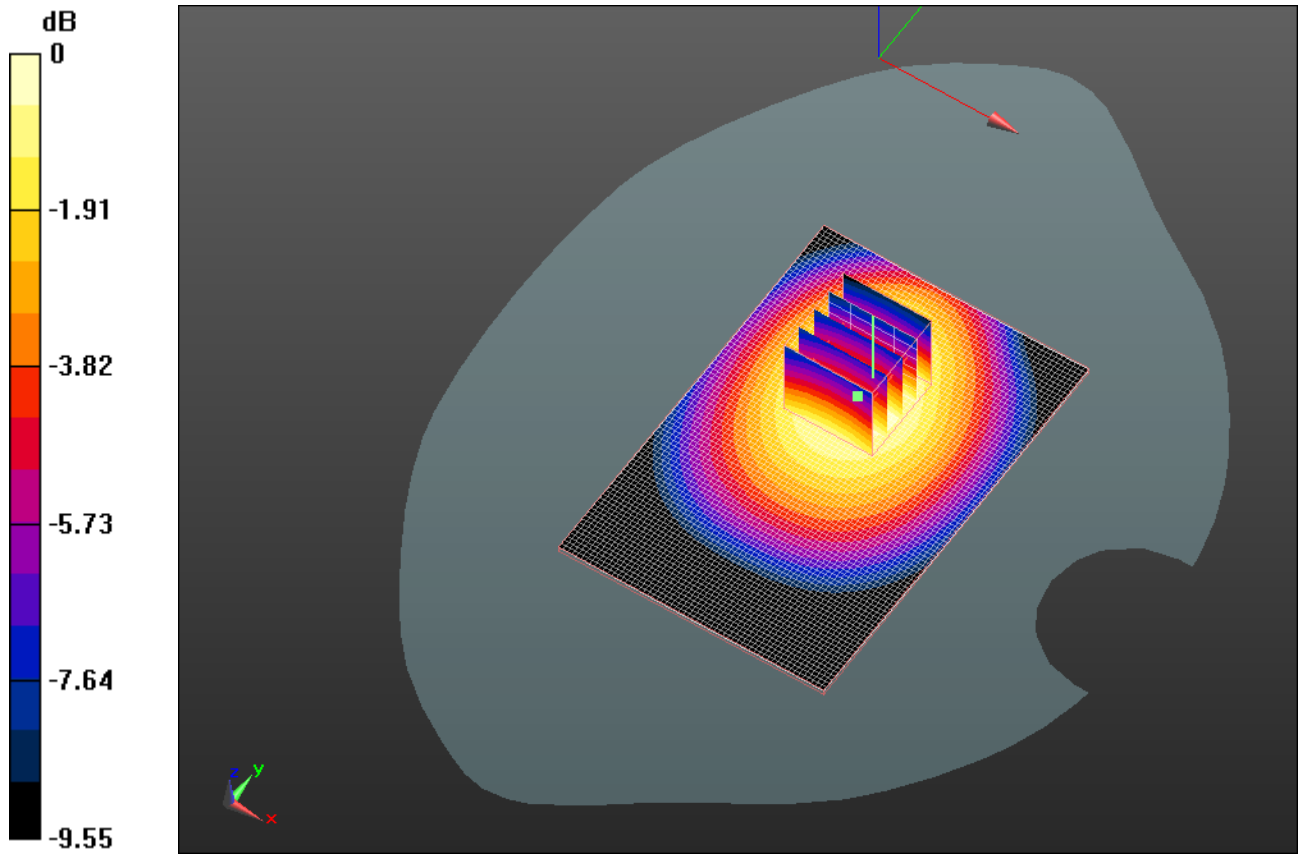
Author Data
Andrew Becker

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0 dB = 0.880mW/g

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Date/Time: 10/5/2011 8:36:53 PM, Date/Time: 10/5/2011 8:43:45 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_UMTS_band_V_mid_chan_amb_temp_23.1_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.19$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.554 mW/g

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

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


Reference Value = 19.621 V/m; Power Drift = 0.004 dB

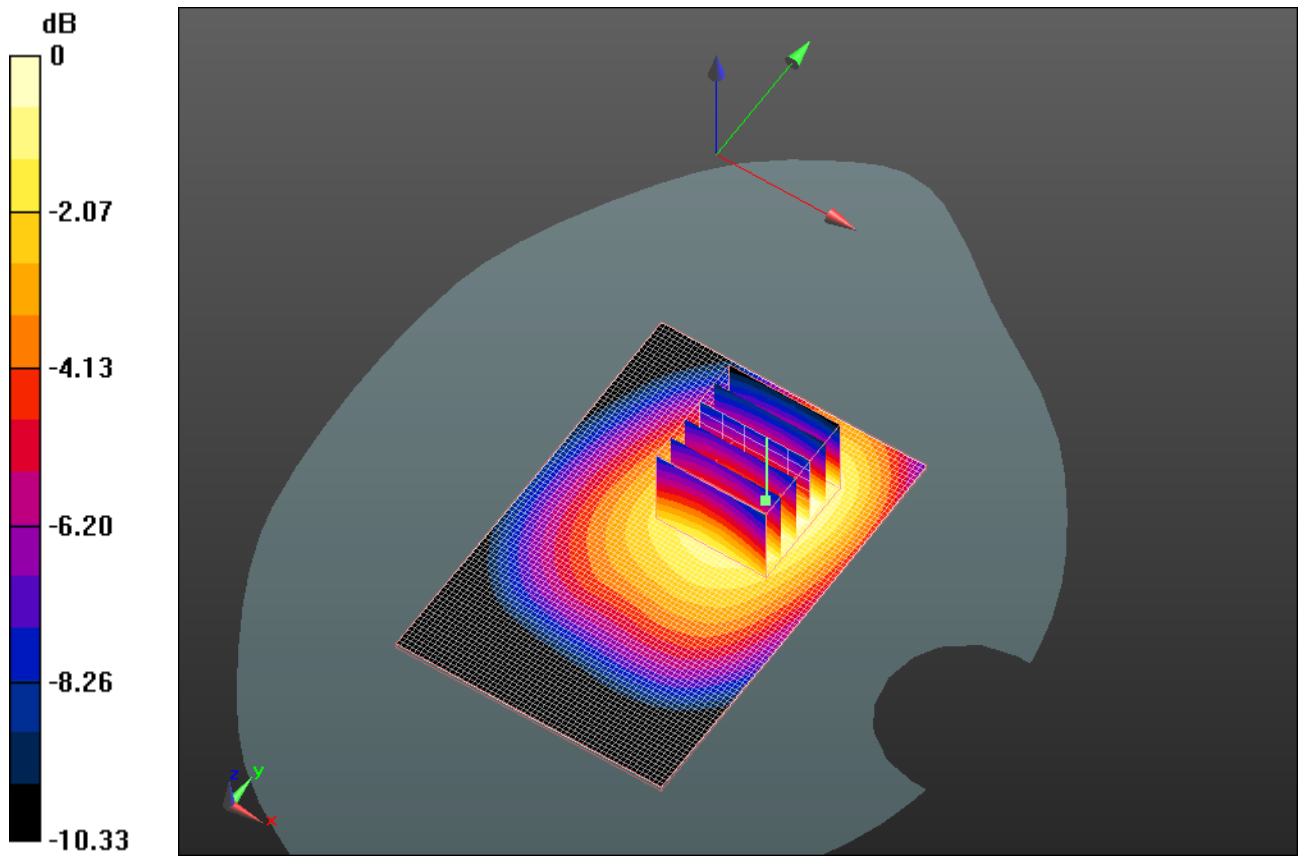
Peak SAR (extrapolated) = 0.666 W/kg

SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.341 mW/g


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

Maximum value of SAR (measured) = 0.535 mW/g

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0 dB = 0.540mW/g

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Date/Time: 10/5/2011 9:34:49 PM, Date/Time: 10/5/2011 9:41:40 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Front_UMTS_band_V_mid_chan_amb_temp_23.3_liq_t
emp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.19$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.566 mW/g

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

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


Reference Value = 23.496 V/m; Power Drift = -0.0091 dB

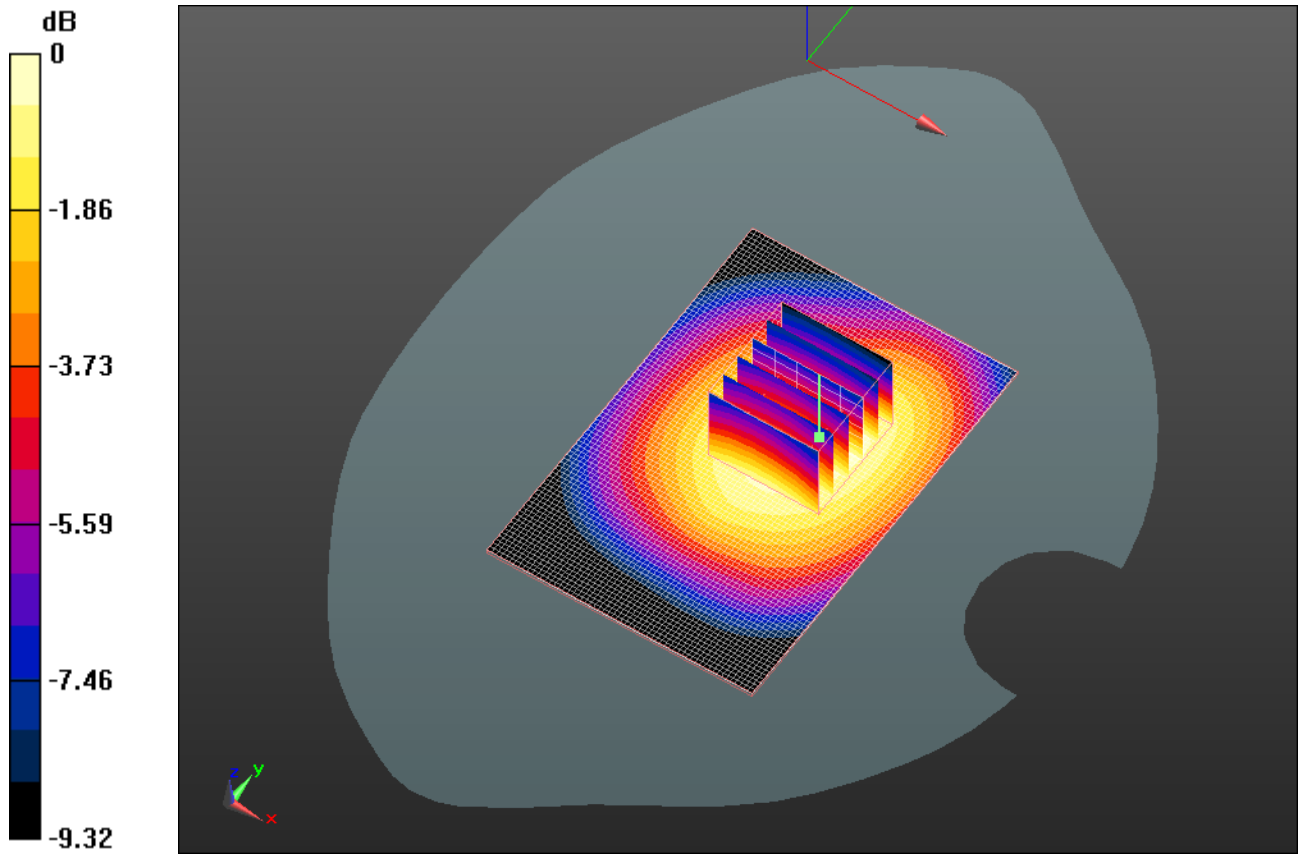
Peak SAR (extrapolated) = 0.661 W/kg

SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.377 mW/g


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

Maximum value of SAR (measured) = 0.562 mW/g

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0 dB = 0.560mW/g

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Date/Time: 10/5/2011 10:06:40 PM, Date/Time: 10/5/2011 10:13:32 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_UMTS_band_V_mid_chan_amb_temp_2
3.8_liq_temp_23.1C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.19$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.785 mW/g

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

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


Reference Value = 24.872 V/m; Power Drift = -0.03 dB

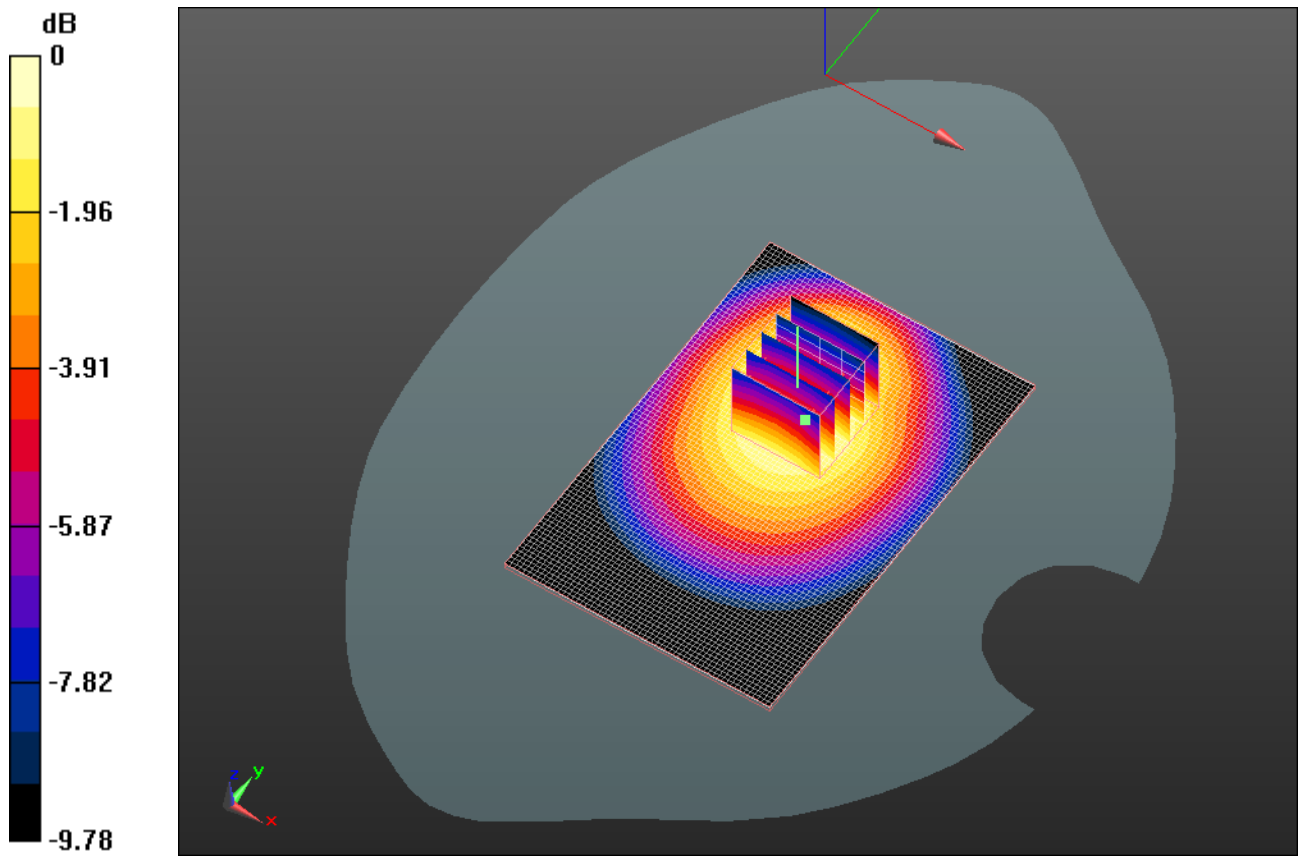
Peak SAR (extrapolated) = 0.973 W/kg

SAR(1 g) = 0.682 mW/g; SAR(10 g) = 0.487 mW/g


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

Maximum value of SAR (measured) = 0.772 mW/g

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0 dB = 0.770mW/g

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Date/Time: 10/4/2011 11:05:59 AM, Date/Time: 10/4/2011 11:12:50 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS1900_low_chan_amb_temp_22.9_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.478$ mho/m; $\epsilon_r = 50.961$;
 $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 1.447 mW/g

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

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


Reference Value = 5.619 V/m; Power Drift = 0.11 dB

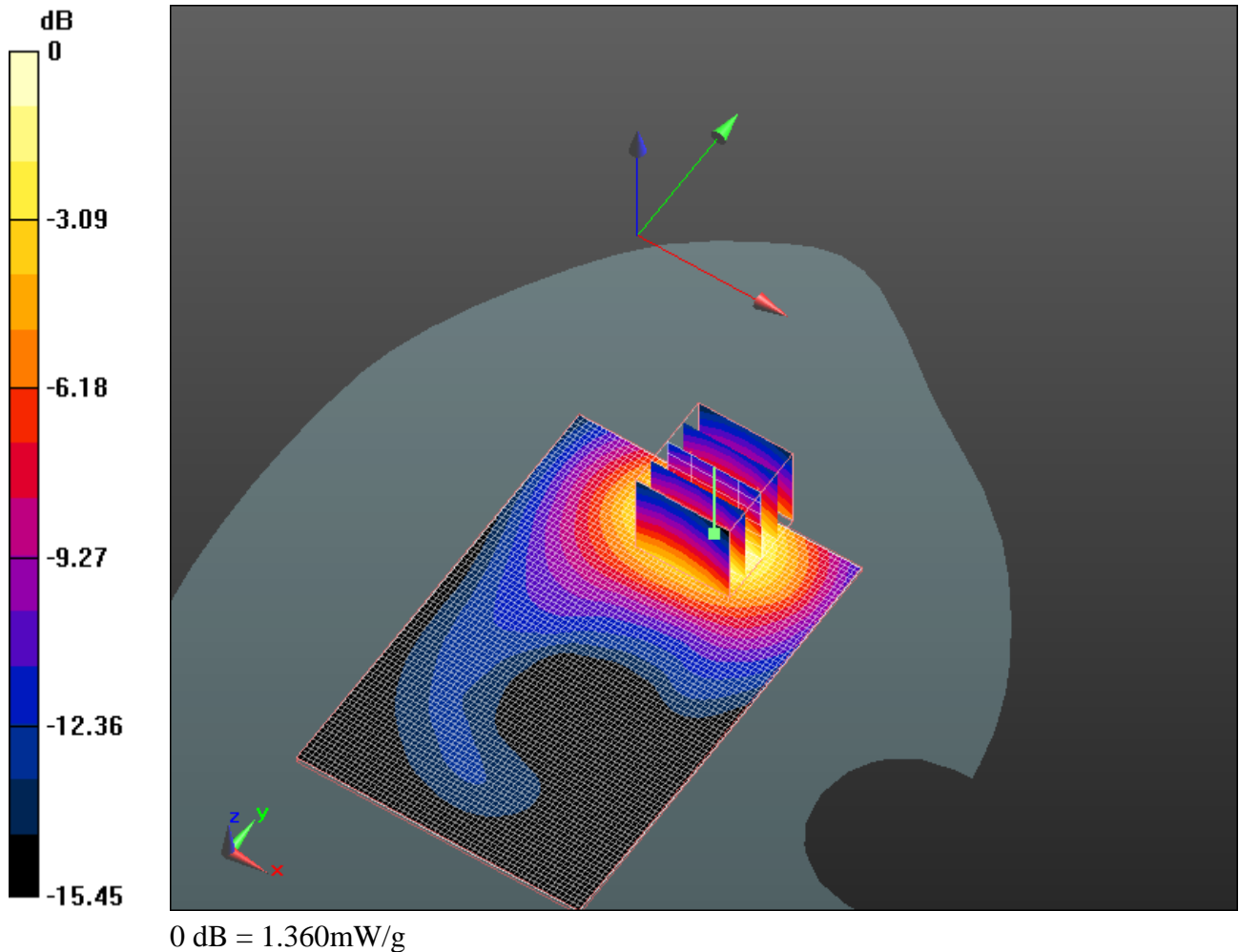
Peak SAR (extrapolated) = 1.828 W/kg


SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.679 mW/g

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

Maximum value of SAR (measured) = 1.365 mW/g

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Date/Time: 10/4/2011 1:34:43 AM, Date/Time: 10/4/2011 1:41:34 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS1900_mid_chan_amb_temp_23.5_liq_temp_22.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 50.862$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.511 mW/g

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


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

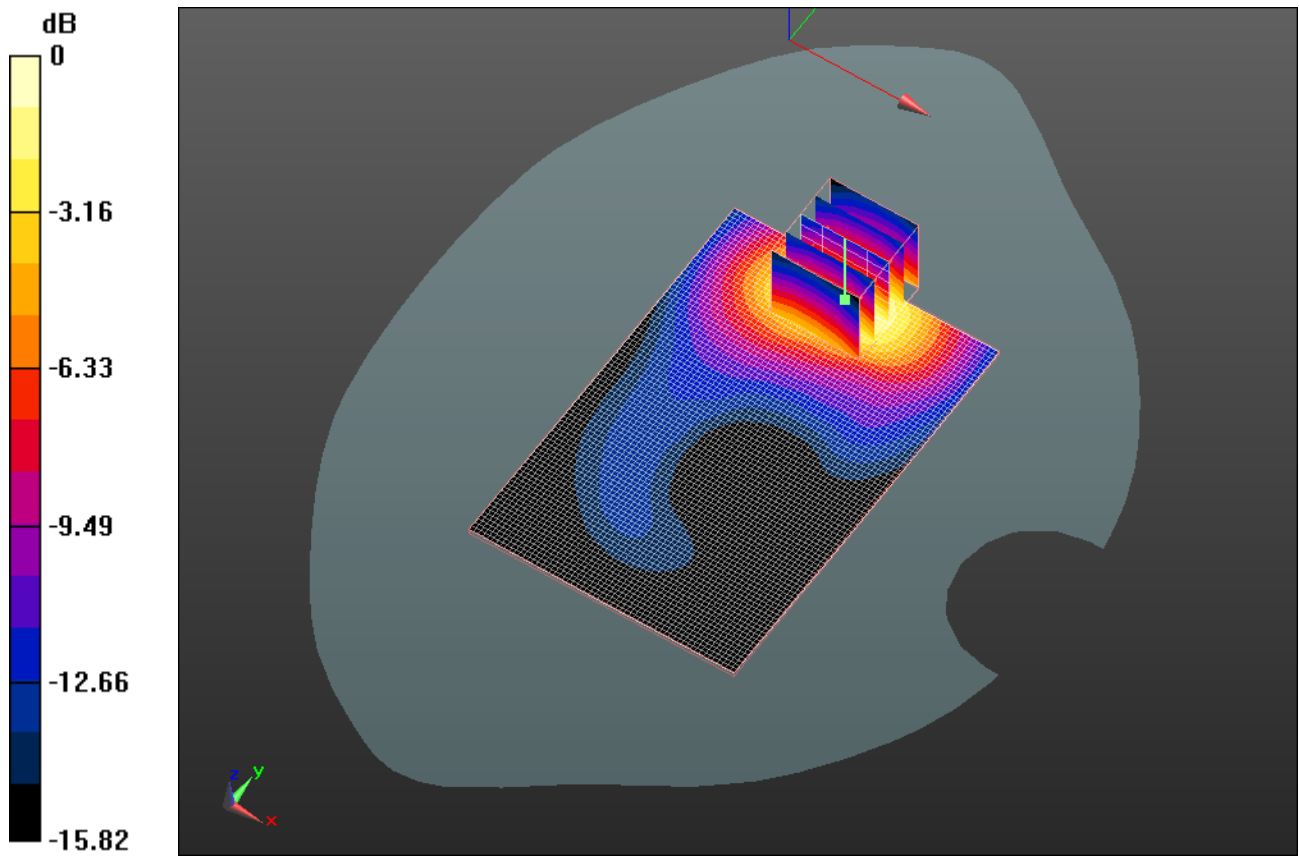
Reference Value = 4.926 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.994 W/kg


SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.732 mW/g

Maximum value of SAR (measured) = 1.508 mW/g

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0 dB = 1.510mW/g

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Date/Time: 10/4/2011 11:40:49 AM, Date/Time: 10/4/2011 11:47:53 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_GPRS1900_high_chan_amb_temp_22.5_liq_temp
_21.4C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.546$ mho/m; $\epsilon_r = 50.756$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.475 mW/g

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


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

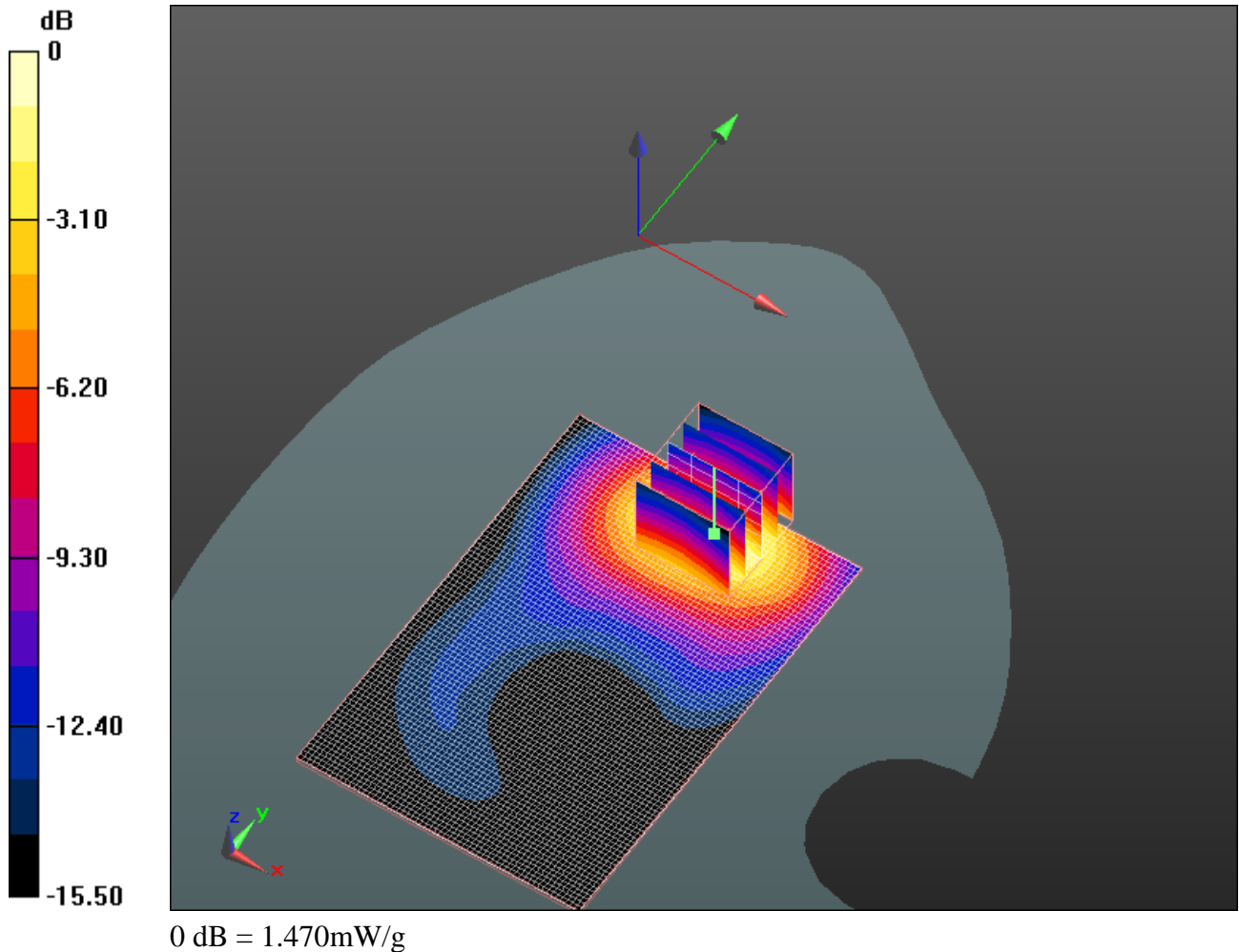
Reference Value = 5.809 V/m; Power Drift = -0.12 dB


Peak SAR (extrapolated) = 1.948 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.707 mW/g

Maximum value of SAR (measured) = 1.475 mW/g

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Date/Time: 10/4/2011 3:15:44 PM, Date/Time: 10/4/2011 3:22:36 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_GPRS1900_mid_chan_amb_temp_22.8_liq_temp_22.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 50.862$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.470 mW/g

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


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

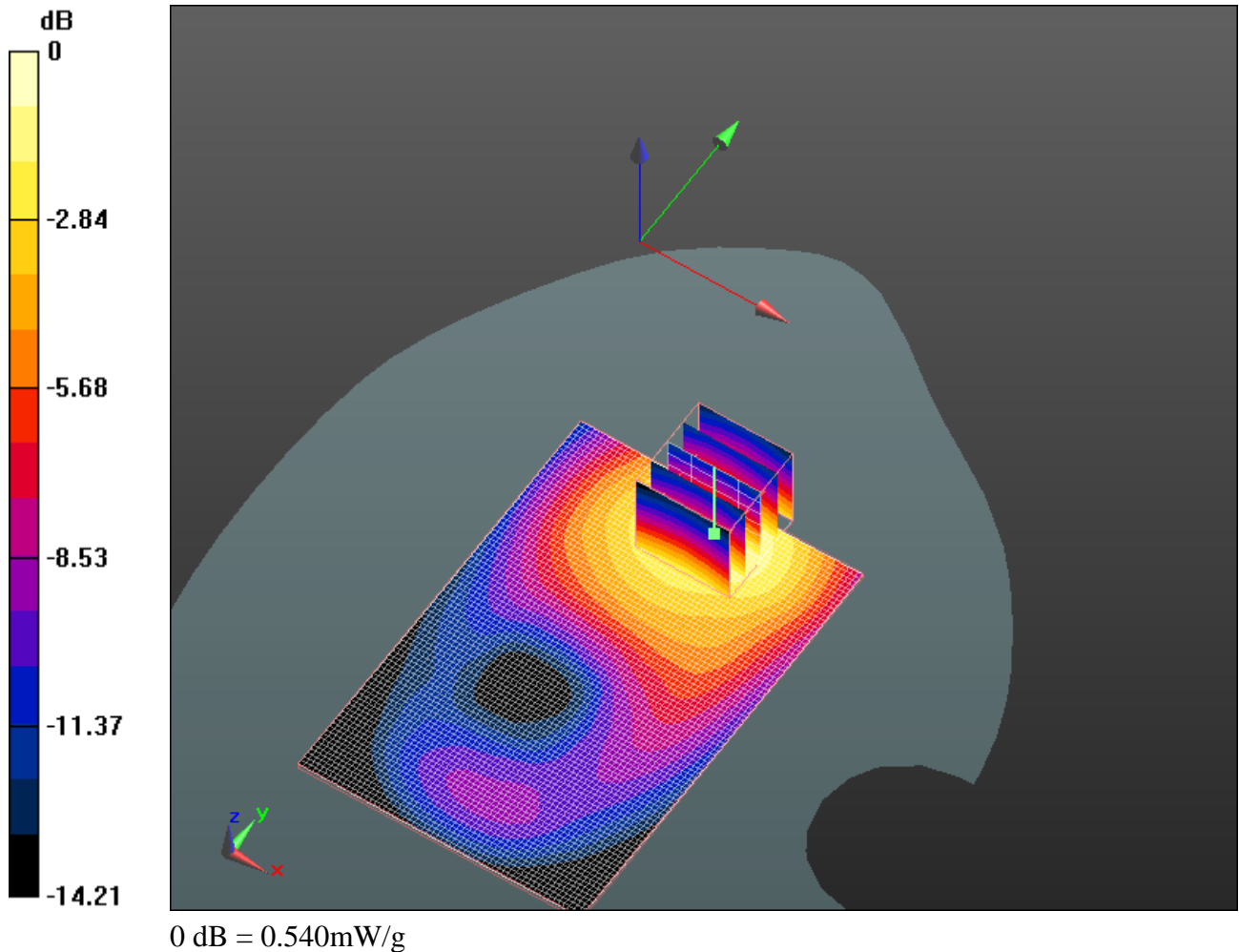
Reference Value = 5.820 V/m; Power Drift = 0.38 dB


Peak SAR (extrapolated) = 0.696 W/kg

SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.275 mW/g

Maximum value of SAR (measured) = 0.538 mW/g

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Date/Time: 10/4/2011 3:38:40 PM, Date/Time: 10/4/2011 3:45:33 PM

Test Laboratory: RIM Testing Services

Leather_Holster_Front_GPRS1900_mid_chan_amb_temp_22.7_liq_tem p_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 50.862$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.332 mW/g

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


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

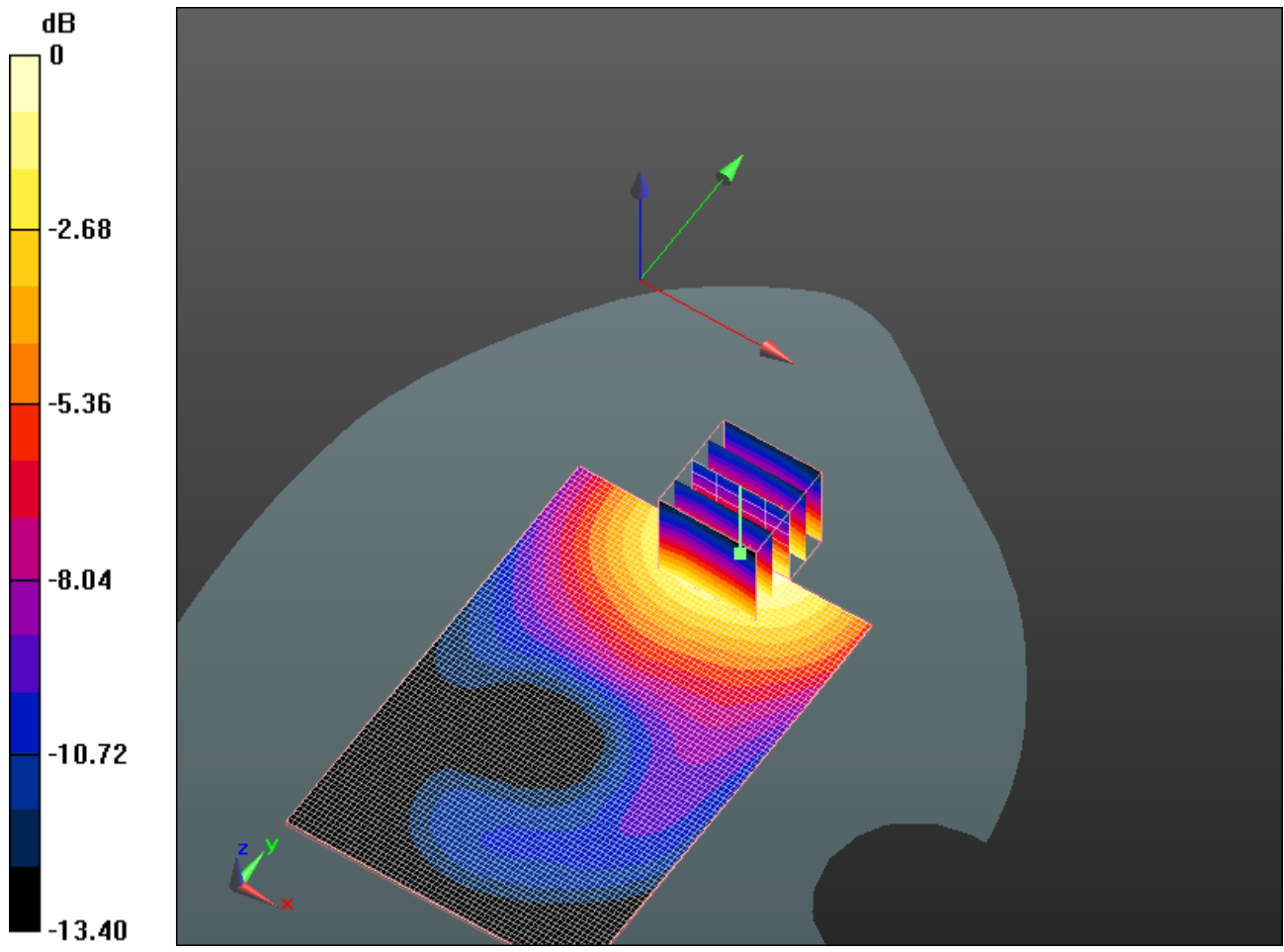
Reference Value = 3.539 V/m; Power Drift = 0.45 dB

Peak SAR (extrapolated) = 0.423 W/kg


SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.179 mW/g

Maximum value of SAR (measured) = 0.330 mW/g

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0 dB = 0.330mW/g

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Date/Time: 10/4/2011 11:57:57 AM, Date/Time: 10/4/2011 12:06:41 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_HS_Back_GPRS1900_mid_chan_amb_temp_22.5_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 50.862$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.428 mW/g

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


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

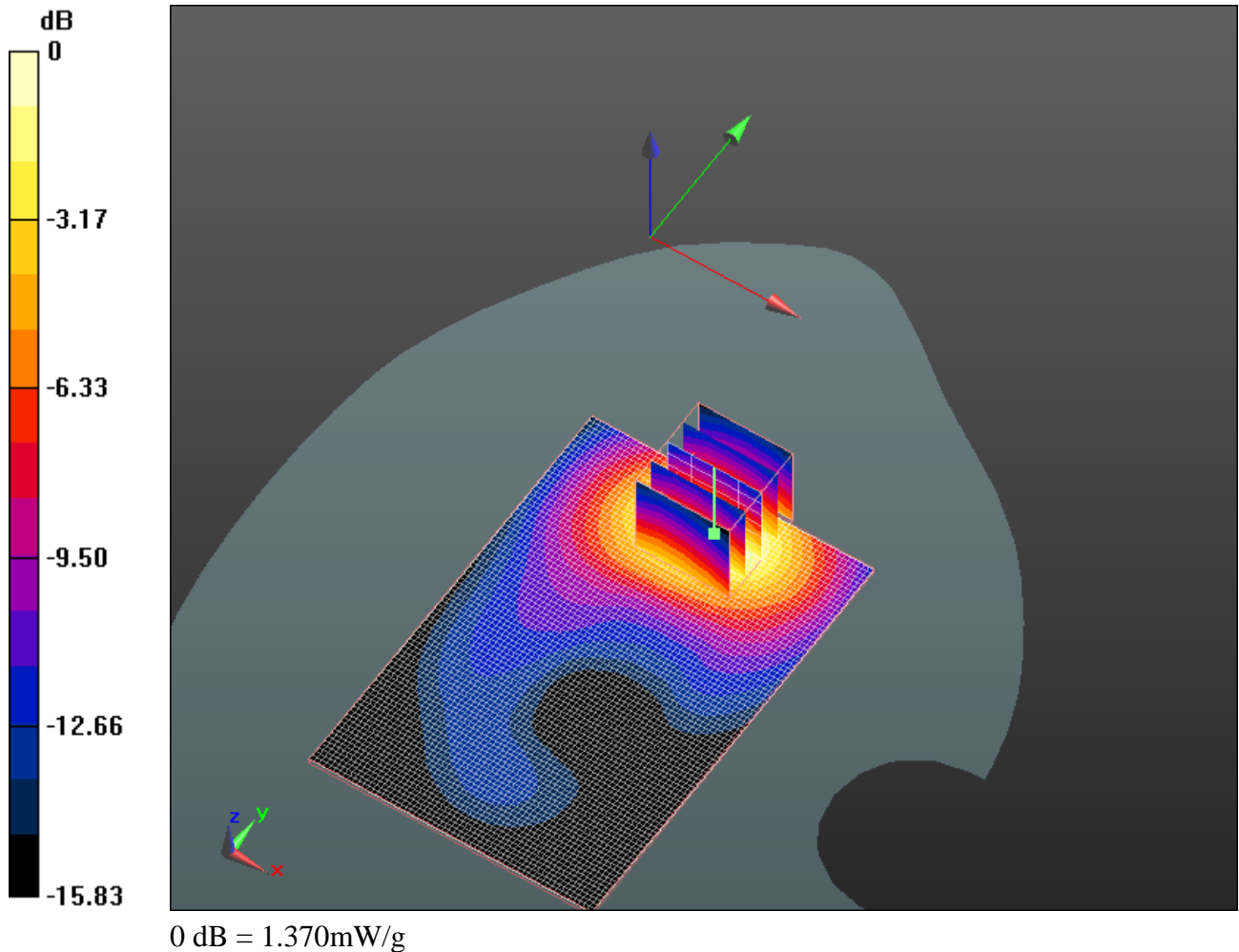
Reference Value = 6.206 V/m; Power Drift = -0.0023 dB


Peak SAR (extrapolated) = 1.832 W/kg

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.660 mW/g

Maximum value of SAR (measured) = 1.369 mW/g

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Date/Time: 10/4/2011 12:21:45 PM, Date/Time: 10/4/2011 12:28:53 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_GPRS1900_3_slots_mid_chan_amb_temp_24.0_li
q_temp_22.1C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322


Communication System: GPRS 1900 (3-slots); Frequency: 1880 MHz
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 50.862$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

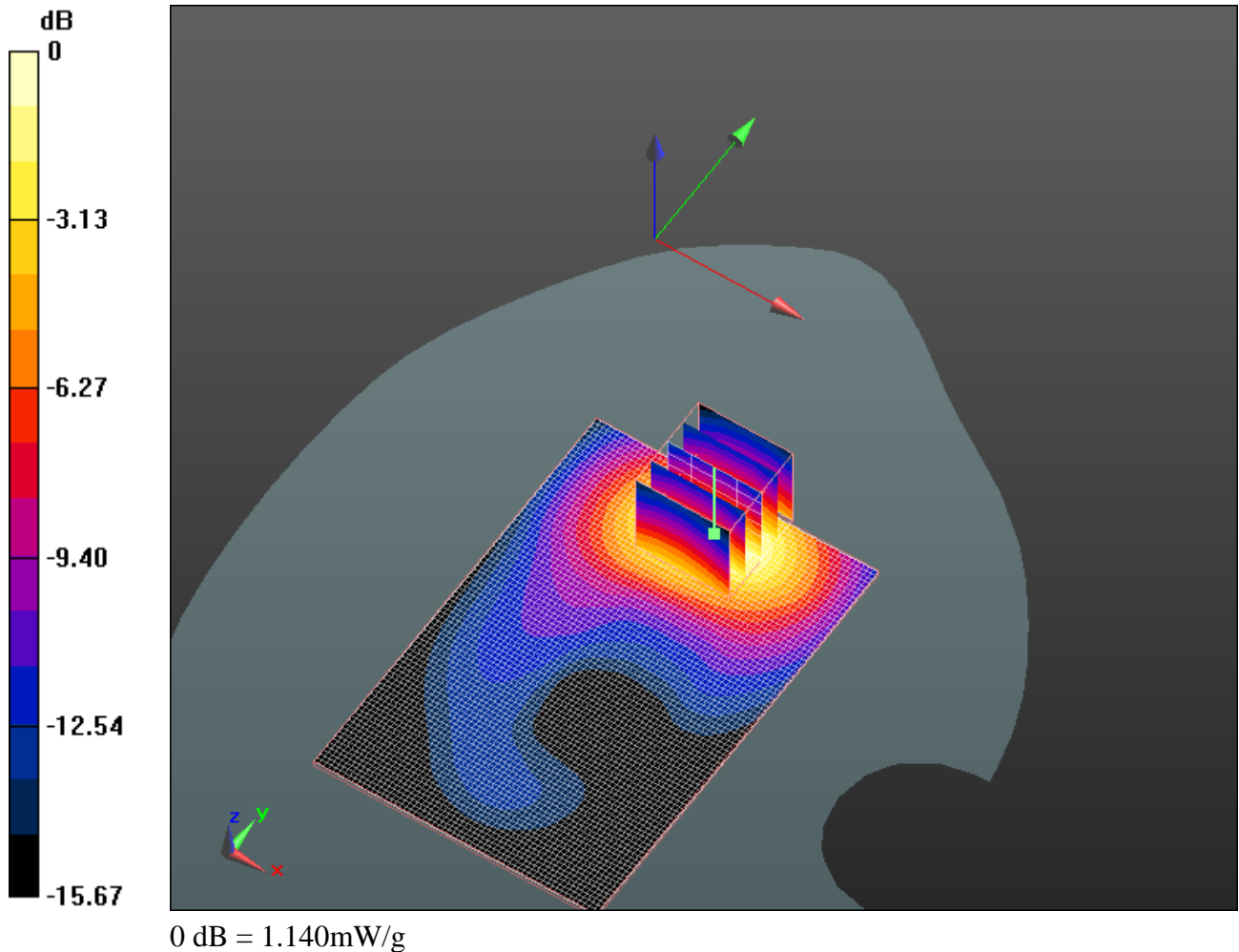
DASY5 Configuration:


- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.159 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.728 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.522 W/kg
SAR(1 g) = 0.956 mW/g; SAR(10 g) = 0.555 mW/g
Maximum value of SAR (measured) = 1.140 mW/g

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Date/Time: 10/4/2011 12:54:27 PM, Date/Time: 10/4/2011 1:01:31 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_GPRS1900_4_slots_mid_chan_amb_temp_23.5_li
q_temp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322


Communication System: GPRS 1900 (4-slots); Frequency: 1880 MHz
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 50.862$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

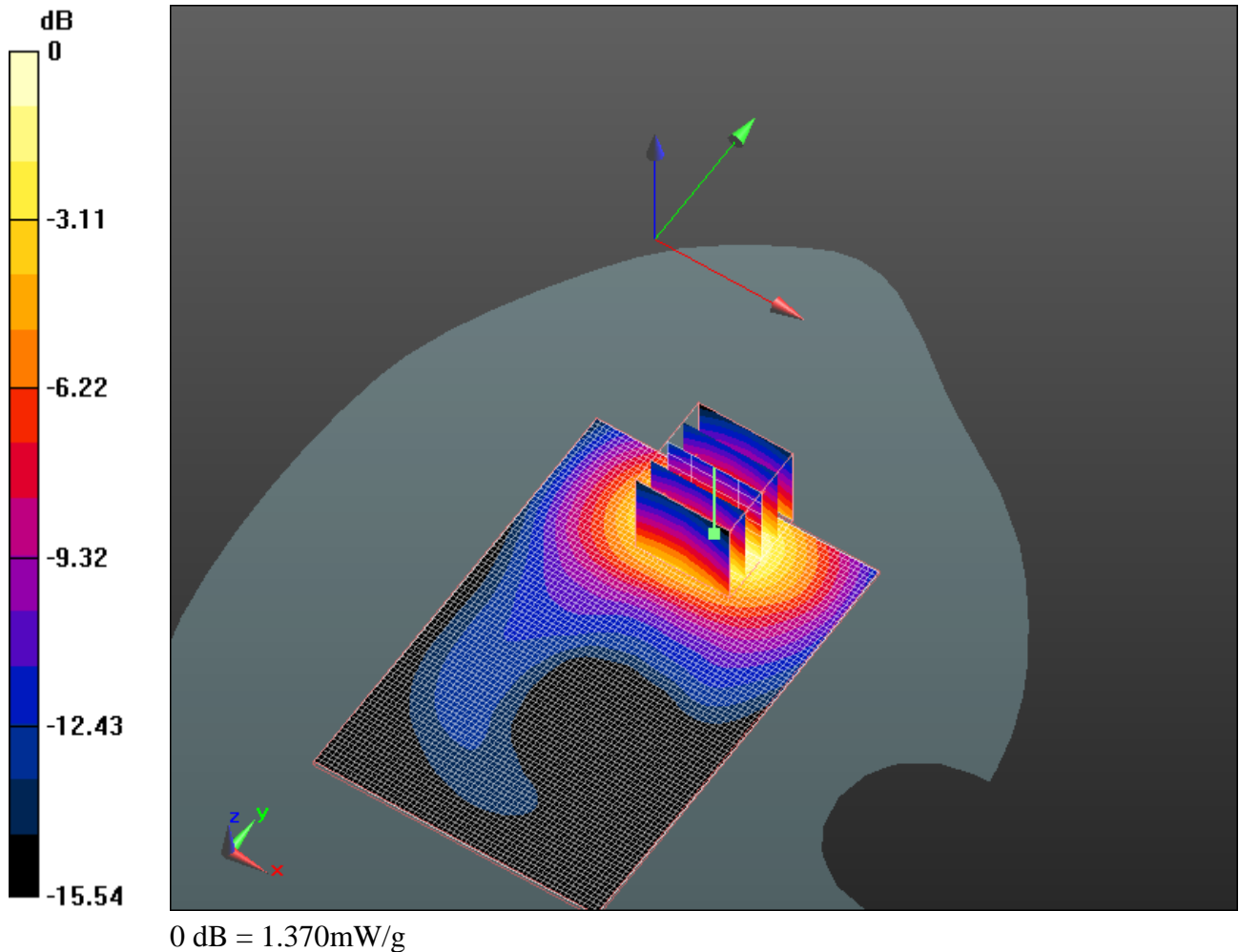
DASY5 Configuration:


- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.369 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.626 V/m; Power Drift = 0.23 dB
Peak SAR (extrapolated) = 1.840 W/kg
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.656 mW/g
Maximum value of SAR (measured) = 1.368 mW/g

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Date/Time: 10/17/2011 3:39:04 PM, Date/Time: 10/17/2011 3:45:50 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS1900_mid_chan_amb_temp_23.7_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.523$ mho/m; $\epsilon_r = 51.004$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.383 mW/g

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


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

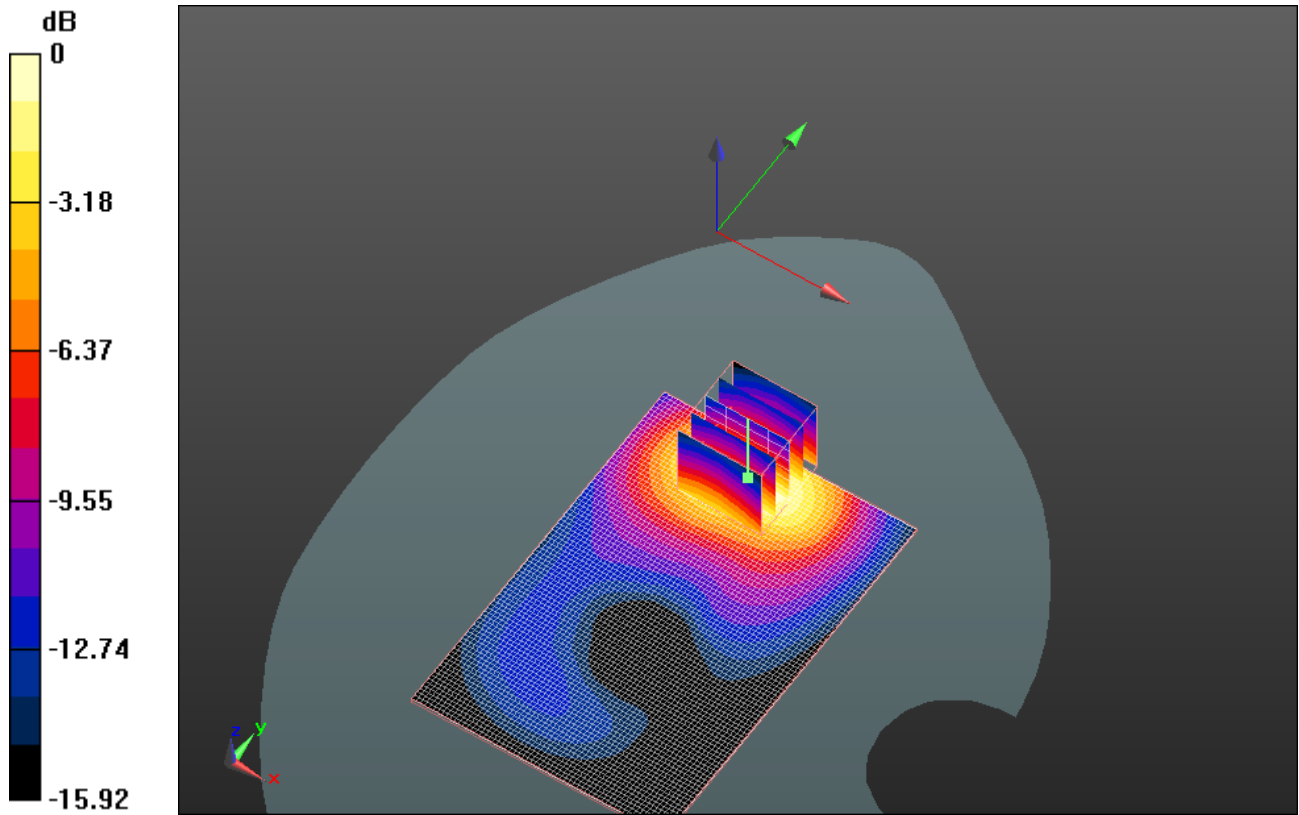
Reference Value = 5.823 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.835 W/kg


SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.673 mW/g

Maximum value of SAR (measured) = 1.393 mW/g

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0 dB = 1.390mW/g

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Date/Time: 10/25/2011 9:15:44 PM, Date/Time: 10/25/2011 9:22:36 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_II_low_chan_amb_temp_22.8_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 50.968$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 1.608 mW/g

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

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


Reference Value = 4.978 V/m; Power Drift = 0.02 dB

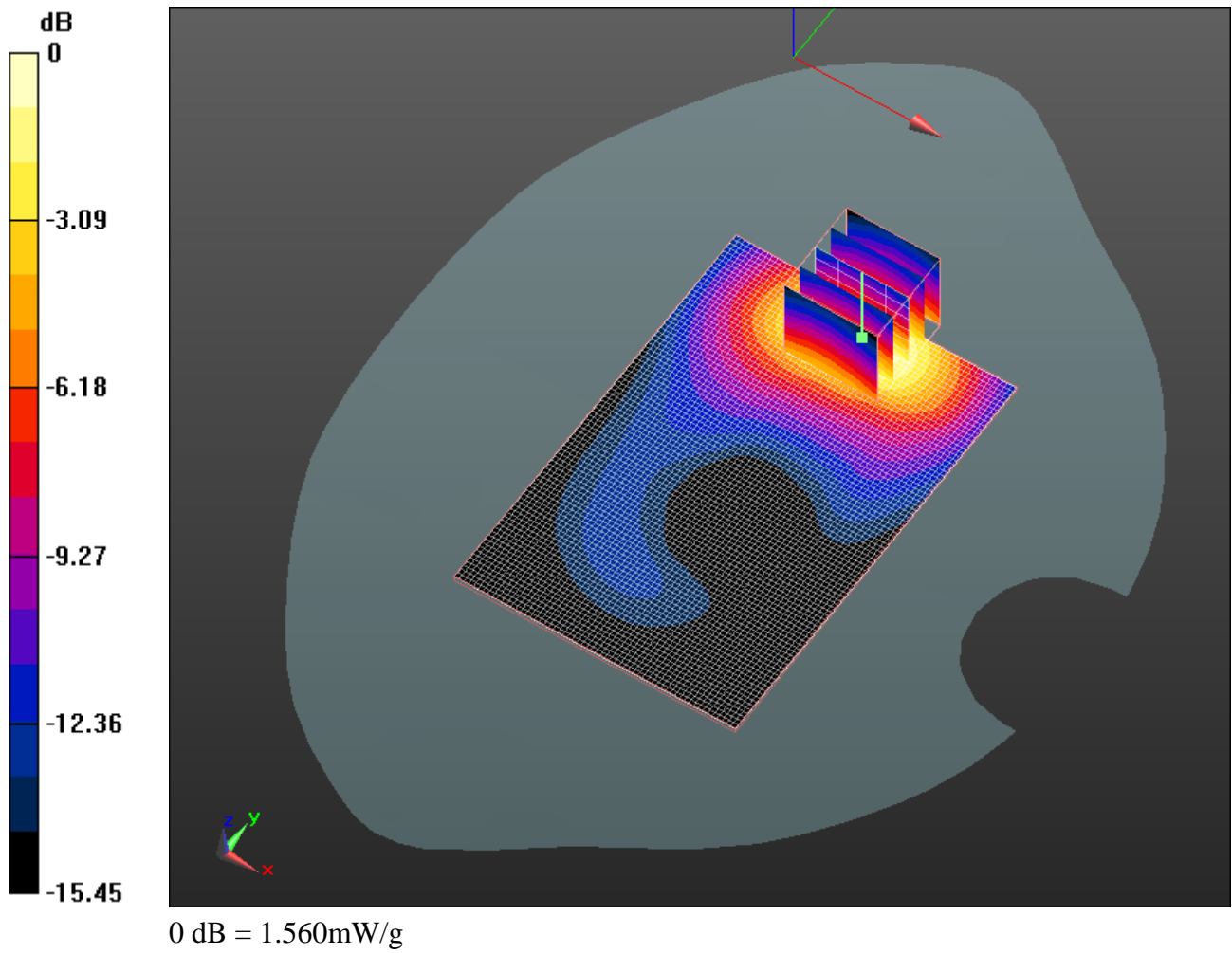
Peak SAR (extrapolated) = 2.043 W/kg


SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.740 mW/g

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

Maximum value of SAR (measured) = 1.560 mW/g

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Date/Time: 10/25/2011 8:58:11 PM, Date/Time: 10/25/2011 9:05:02 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_II_mid_chan_amb_temp_23.1_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 50.895$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.666 mW/g

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


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

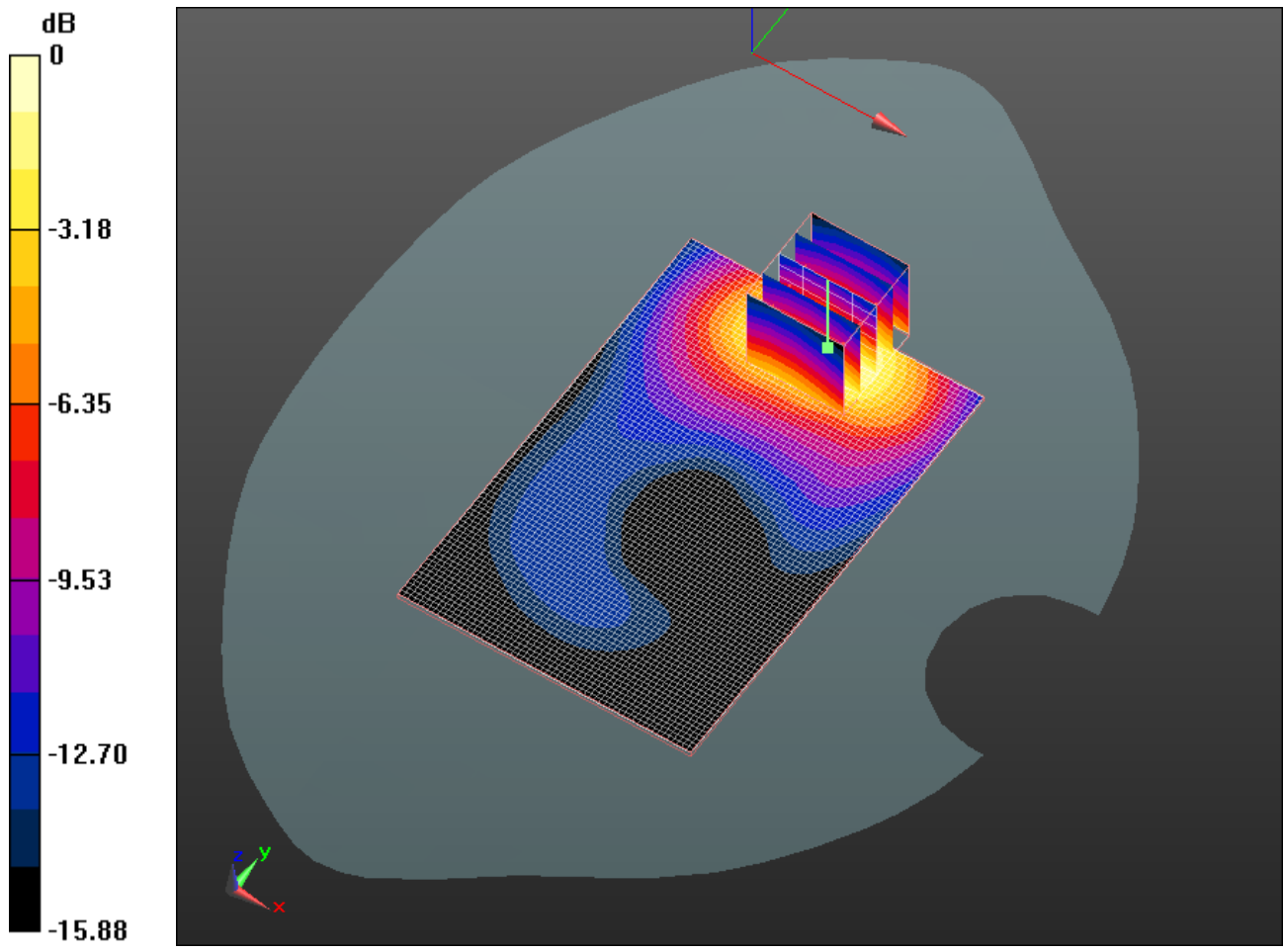
Reference Value = 4.749 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.149 W/kg


SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.770 mW/g

Maximum value of SAR (measured) = 1.635 mW/g

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0 dB = 1.630mW/g

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Date/Time: 10/25/2011 9:33:12 PM, Date/Time: 10/25/2011 9:40:04 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_II_high_chan_amb_temp_22.9_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.571$ mho/m; $\epsilon_r = 50.807$;
 $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

Maximum value of SAR (interpolated) = 1.641 mW/g

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


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

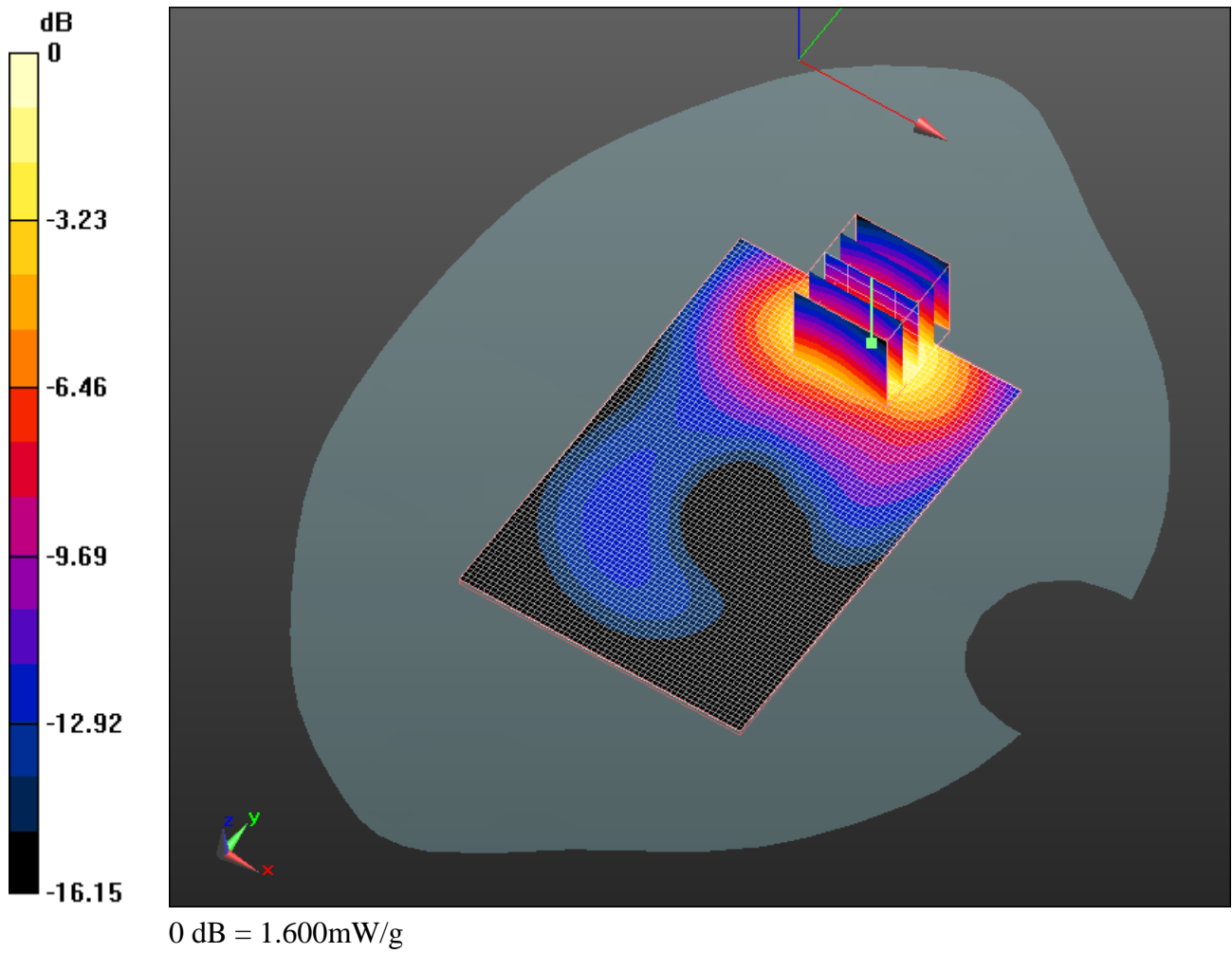
Reference Value = 4.535 V/m; Power Drift = 0.09 dB


Peak SAR (extrapolated) = 2.132 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.753 mW/g

Maximum value of SAR (measured) = 1.603 mW/g

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Date/Time: 10/25/2011 9:50:17 PM, Date/Time: 10/25/2011 9:57:10 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_UMTS_band_II_mid_chan_amb_temp_22.6_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.895$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.596 mW/g

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


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

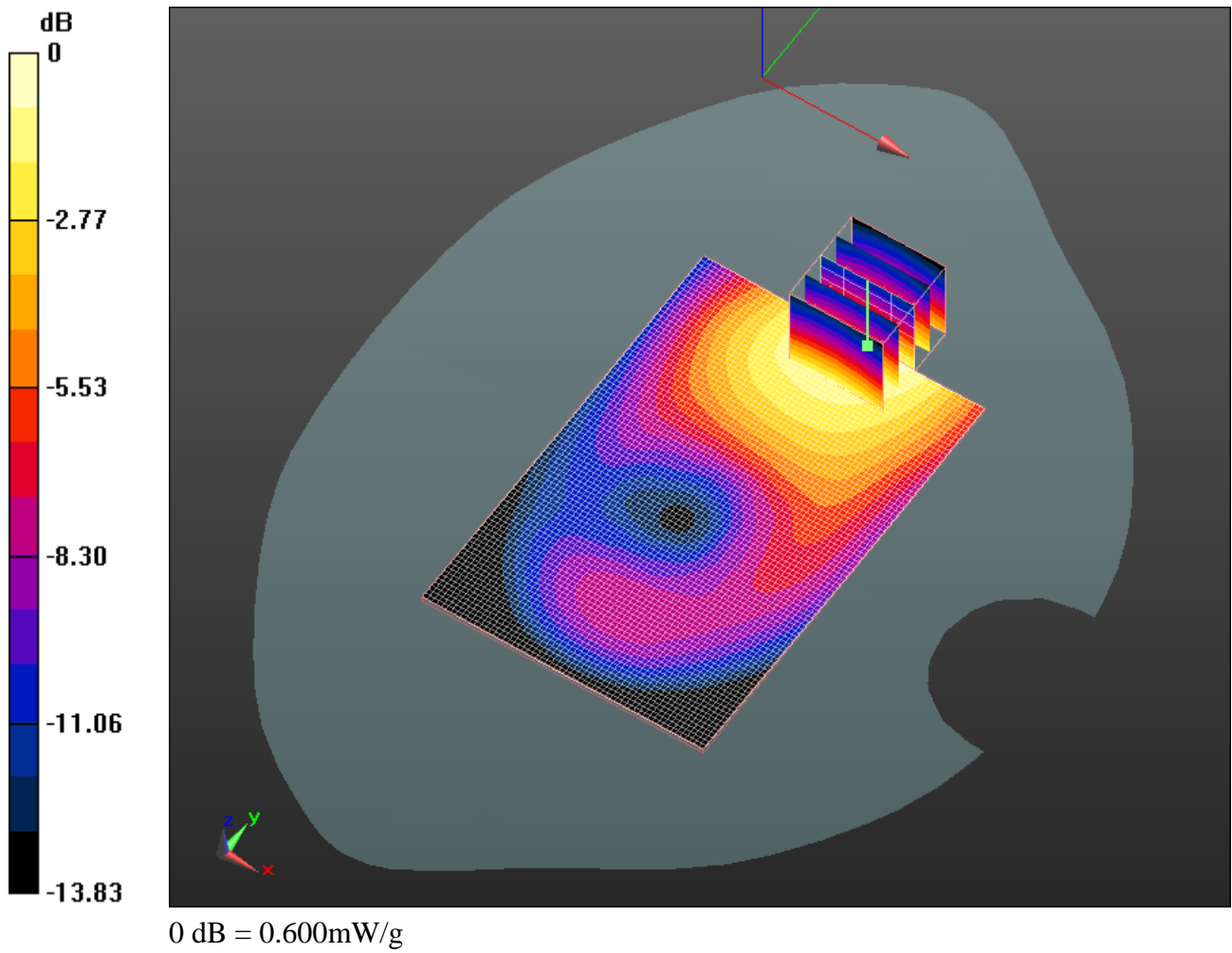
Reference Value = 5.381 V/m; Power Drift = -0.02 dB


Peak SAR (extrapolated) = 0.781 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.316 mW/g

Maximum value of SAR (measured) = 0.596 mW/g

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	Author Data Andrew Becker	Dates of Test September 27 – October 26, 2011	Test Report No RTS-5955-1110-23	FCC ID: L6AREQ70UW

Date/Time: 10/25/2011 10:09:54 PM, Date/Time: 10/25/2011 10:16:43 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Front_UMTS_band_II_mid_chan_amb_temp_23.1_liq_t
emp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.895$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.360 mW/g

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


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

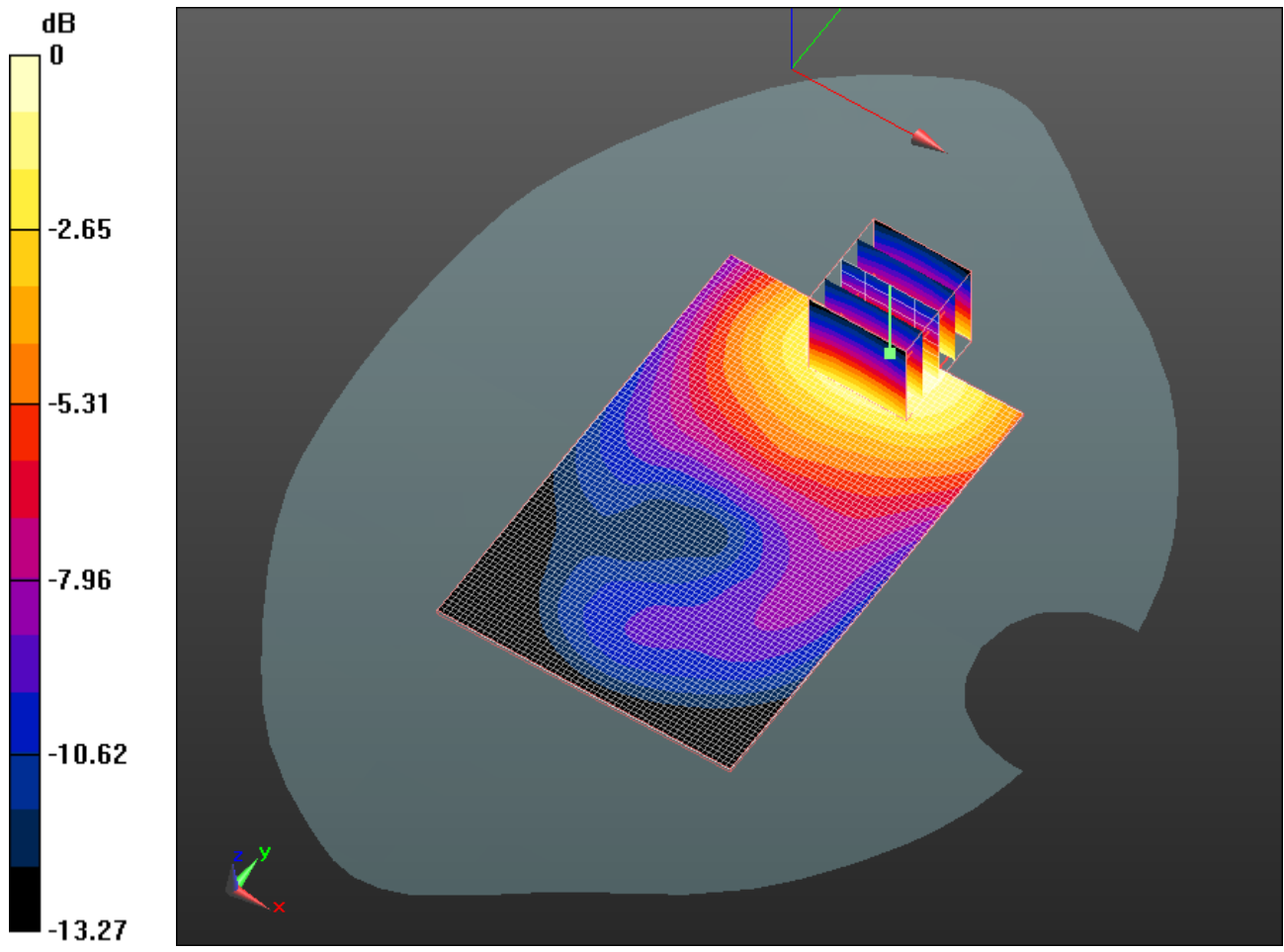
Reference Value = 5.128 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.463 W/kg


SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.360 mW/g

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0 dB = 0.360mW/g

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Date/Time: 10/25/2011 11:13:10 PM, Date/Time: 10/25/2011 11:20:01 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_UMTS_band_II_mid_chan_amb_temp_2
2.6_liq_temp_22.1C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2868B77A

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.895$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 1.671 mW/g

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


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

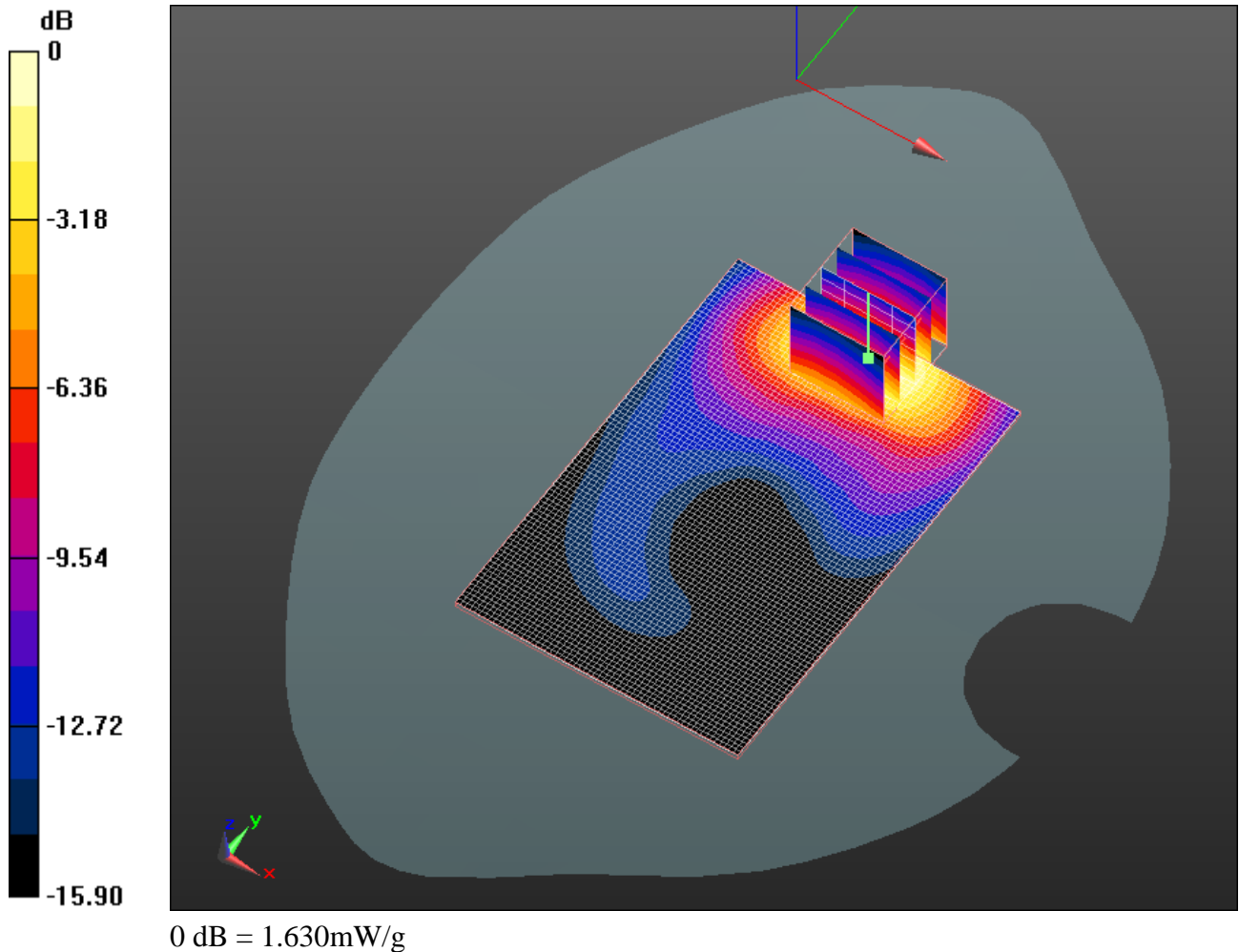
Reference Value = 4.875 V/m; Power Drift = 0.11 dB


Peak SAR (extrapolated) = 2.169 W/kg

SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.767 mW/g

Maximum value of SAR (measured) = 1.634 mW/g

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Date/Time: 10/12/2011 11:53:06 AM, Date/Time: 10/12/2011 11:59:57 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_low_chan_amb_temp_23.8_liq_temp_23.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

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

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 50.698$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.632 mW/g

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


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

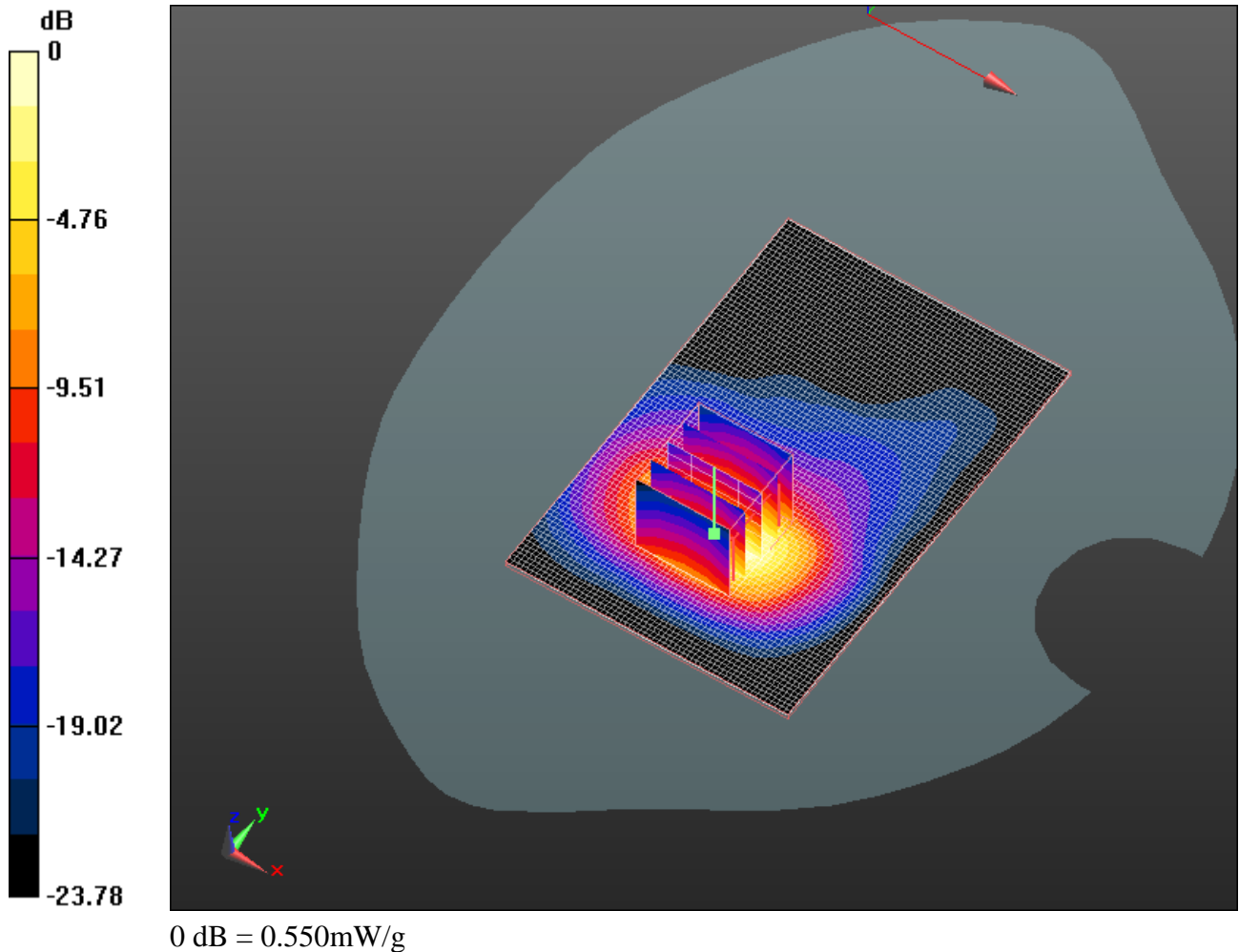
Reference Value = 2.186 V/m; Power Drift = 0.11 dB


Peak SAR (extrapolated) = 0.863 W/kg

SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.208 mW/g

Maximum value of SAR (measured) = 0.546 mW/g

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Date/Time: 10/12/2011 12:38:23 PM, Date/Time: 10/12/2011 12:45:09 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_mid_chan_amb_temp_23.8_liq_temp_22.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.005$ mho/m; $\epsilon_r = 50.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.501 mW/g

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

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


Reference Value = 2.434 V/m; Power Drift = -0.09 dB

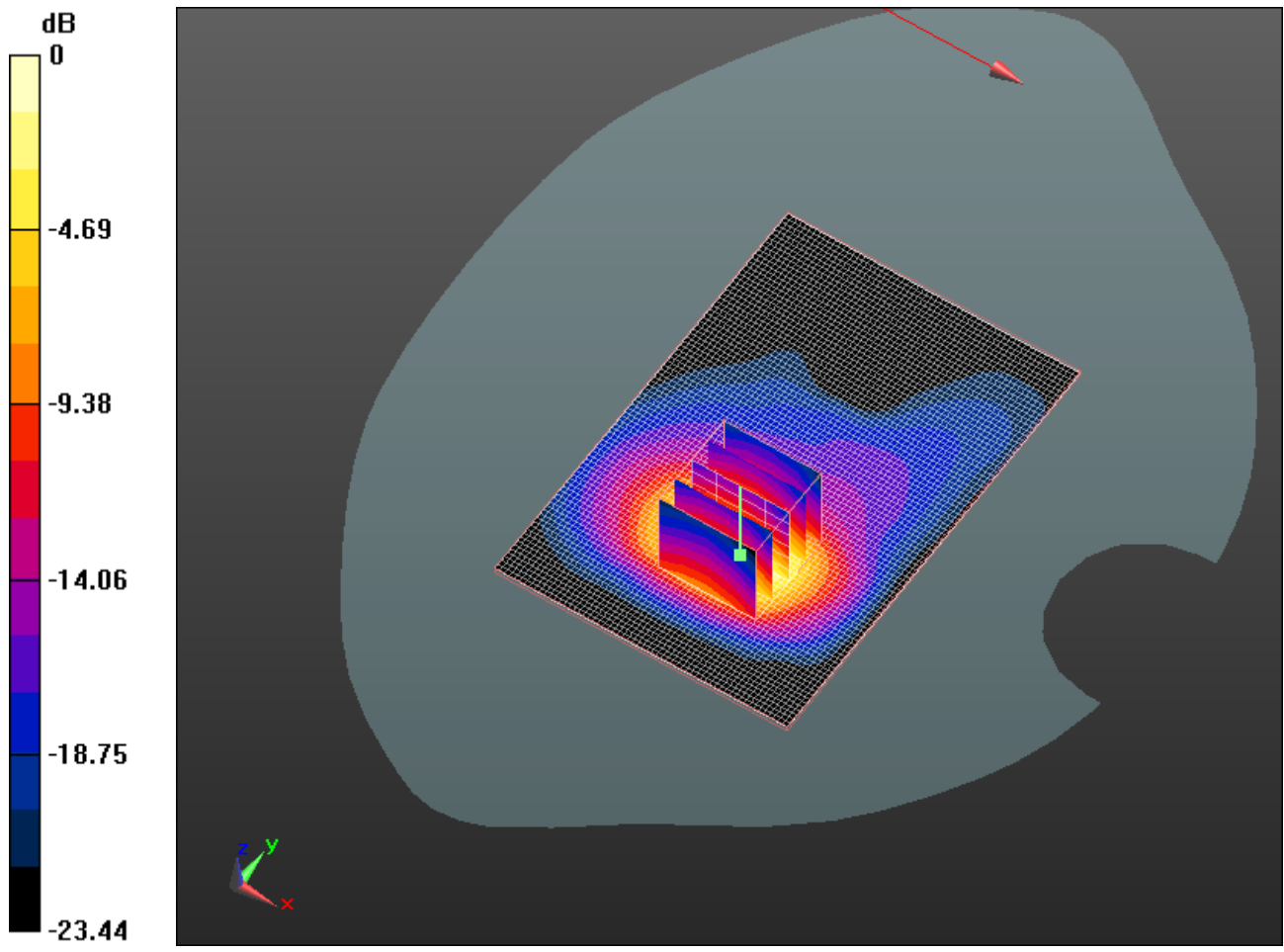
Peak SAR (extrapolated) = 0.682 W/kg

SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.159 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

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Date/Time: 10/12/2011 12:56:44 PM, Date/Time: 10/12/2011 1:03:32 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_802.11b_high_chan_amb_temp_23.7_liq_temp_22
.8C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

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

Medium parameters used: $f = 2462$ MHz; $\sigma = 2.04$ mho/m; $\epsilon_r = 50.503$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.427 mW/g

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


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

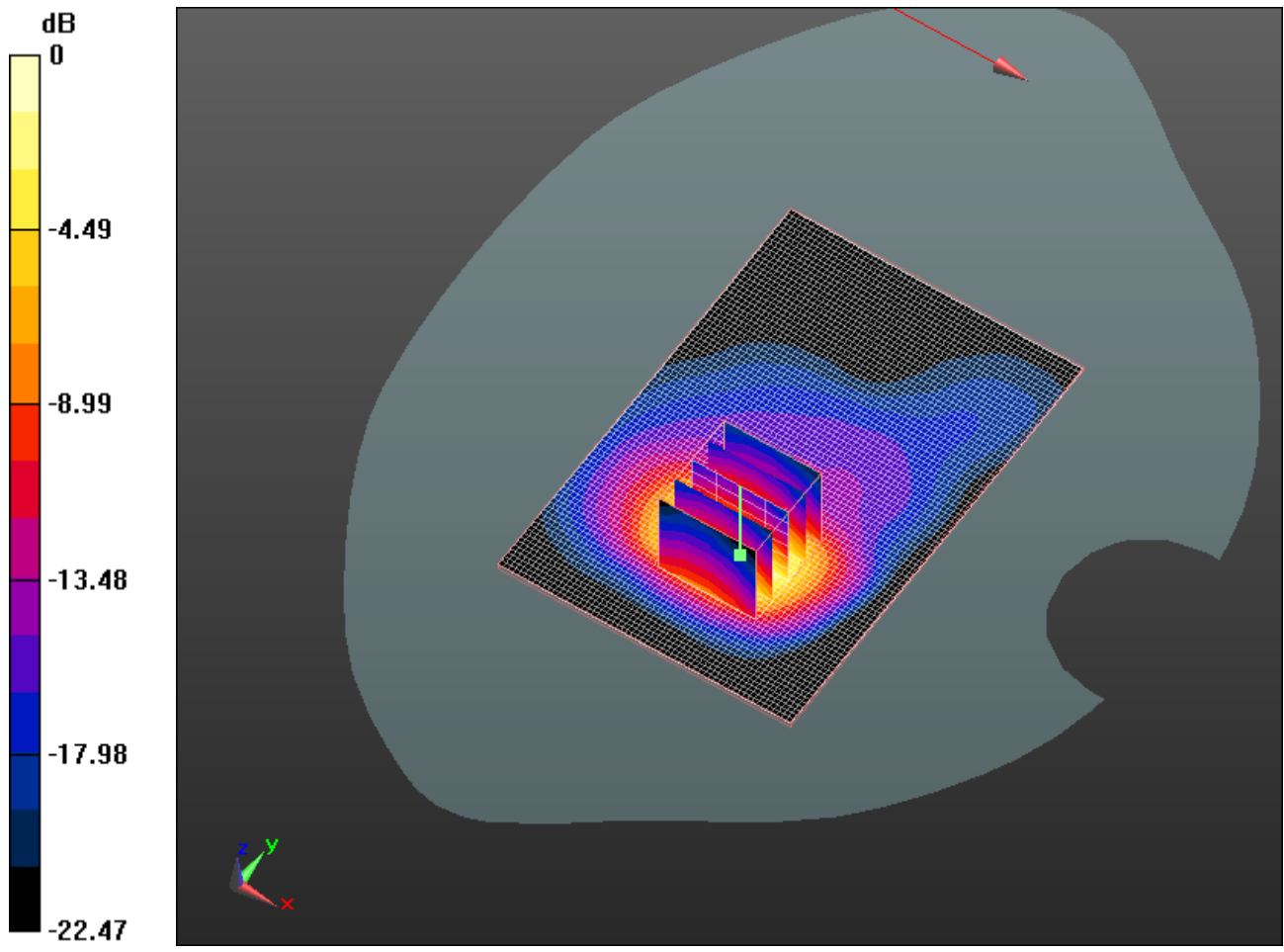
Reference Value = 2.541 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.579 W/kg


SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.361 mW/g

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0 dB = 0.360mW/g

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Date/Time: 10/12/2011 2:45:31 PM, Date/Time: 10/12/2011 2:52:20 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_802.11b_low_chan_amb_temp_23.5_liq_temp_22.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

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

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 50.698$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.00373 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 = 1.228 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.00322 W/kg

SAR(1 g) = 0.00181 mW/g; SAR(10 g) = 0.00112 mW/g

Maximum value of SAR (measured) = 0.00225 mW/g

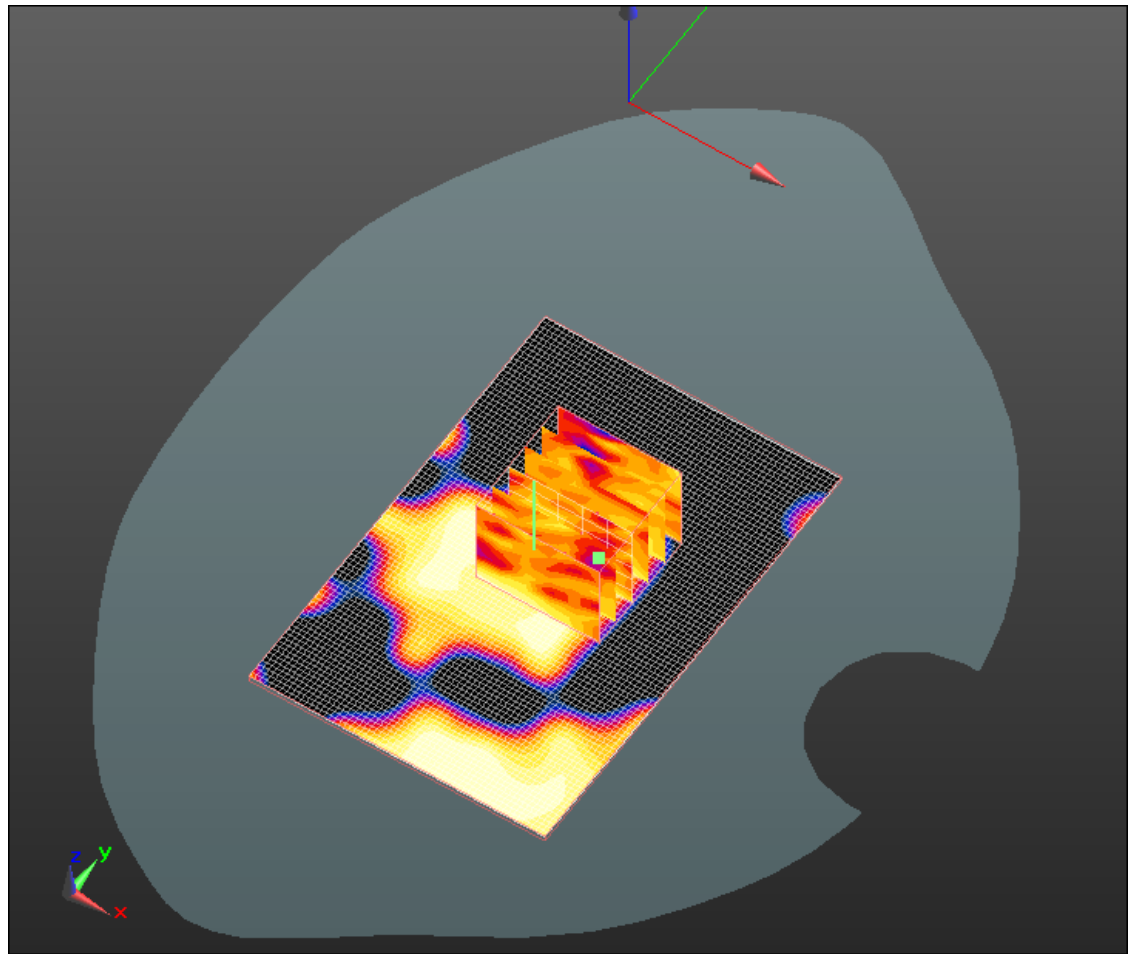
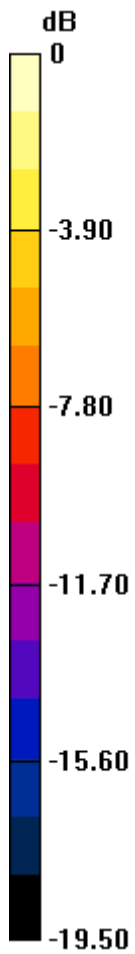
Author Data
Andrew Becker

Dates of Test
September 27 – October 26, 2011


Test Report No
RTS-5955-1110-23

FCC ID:
L6AREQ70UW

IC ID
2503A-REQ70UW



0 dB = 0.0022mW/g

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Date/Time: 10/12/2011 3:05:34 PM, Date/Time: 10/12/2011 3:12:22 PM

Test Laboratory: RIM Testing Services

**Vertical_Leather_Holster_Front_802.11b_low_chan_amb_temp_23.3_liq
_temp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

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

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 50.698$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.00311 mW/g

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


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

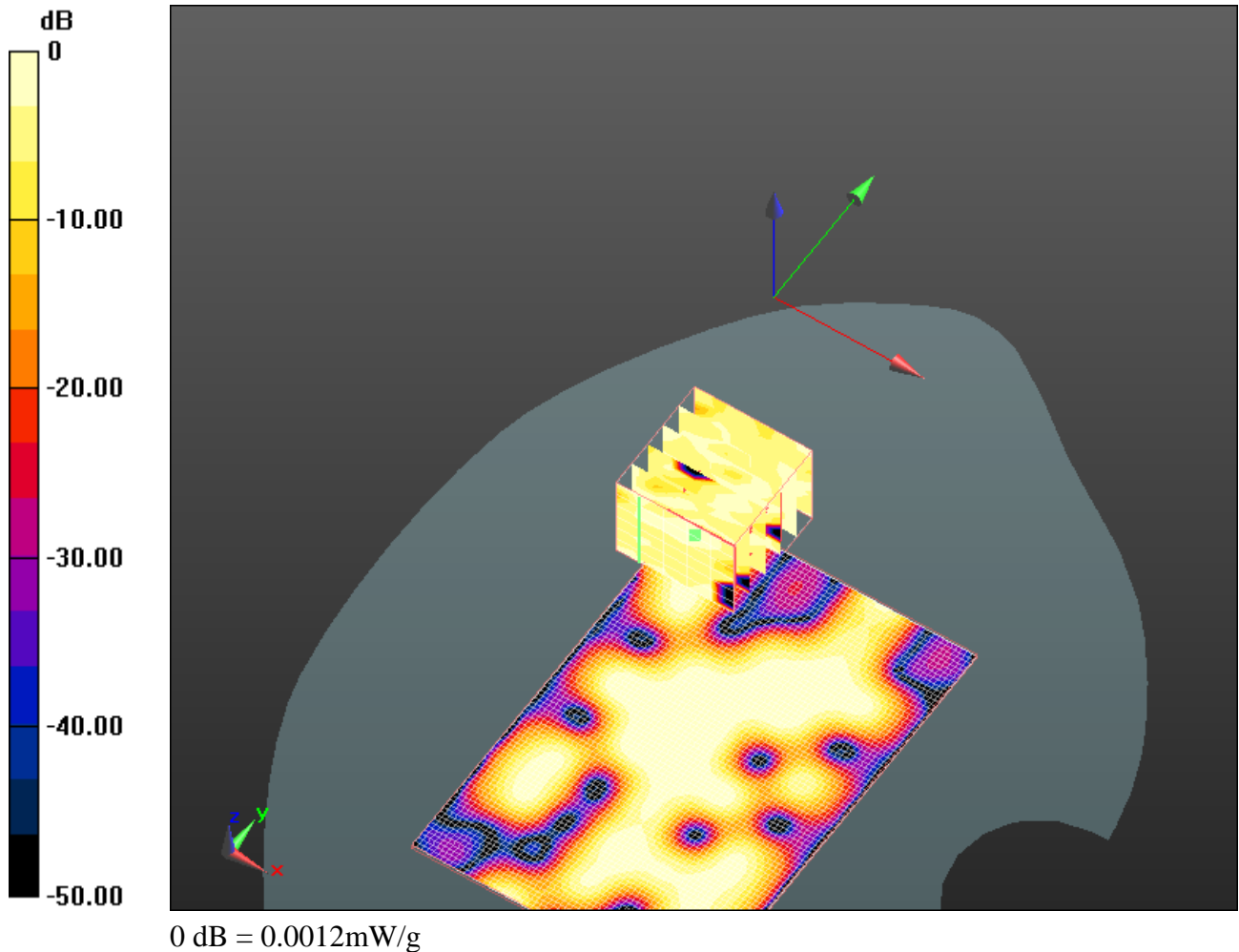
Reference Value = 1.366 V/m; Power Drift = 0.38 dB


Peak SAR (extrapolated) = 0.00193 W/kg

SAR(1 g) = 0.000727 mW/g; SAR(10 g) = 0.000415 mW/g

Maximum value of SAR (measured) = 0.0012 mW/g

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Date/Time: 10/12/2011 2:25:30 PM, Date/Time: 10/12/2011 2:32:16 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_Headset_low_chan_amb_temp_23.4_liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

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

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 50.698$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.664 mW/g

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


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

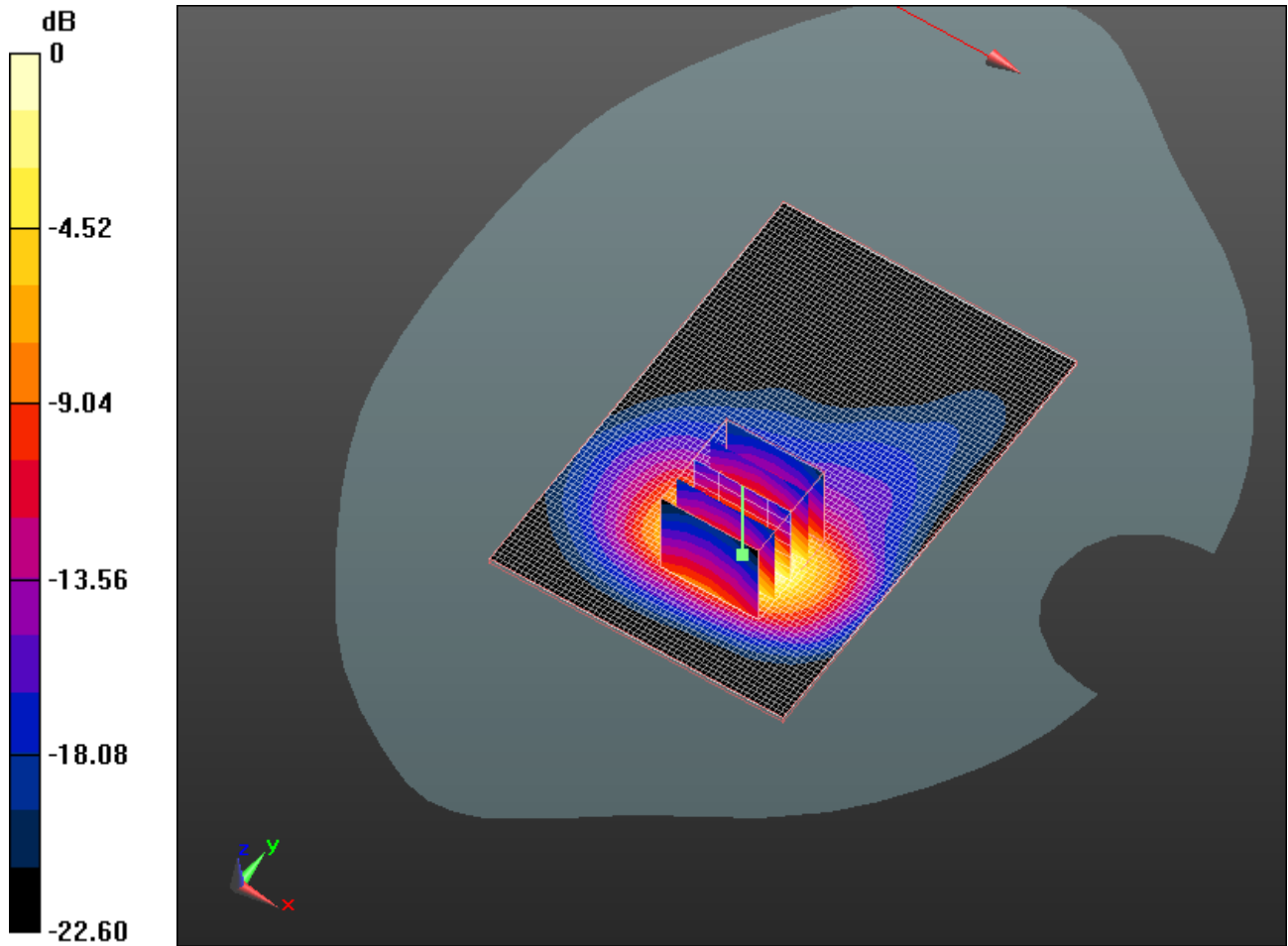
Reference Value = 2.176 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.784 W/kg


SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.185 mW/g

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

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0 dB = 0.510mW/g

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Date/Time: 10/12/2011 7:13:57 PM, Date/Time: 10/12/2011 7:20:46 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Bluetooth_mid_chan_amb_temp_23.8_liq_temp_23.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: Bluetooth; Frequency: 2441 MHz

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 50.588$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.00648 mW/g

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

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


Reference Value = 0.866 V/m; Power Drift = 2.36 dB

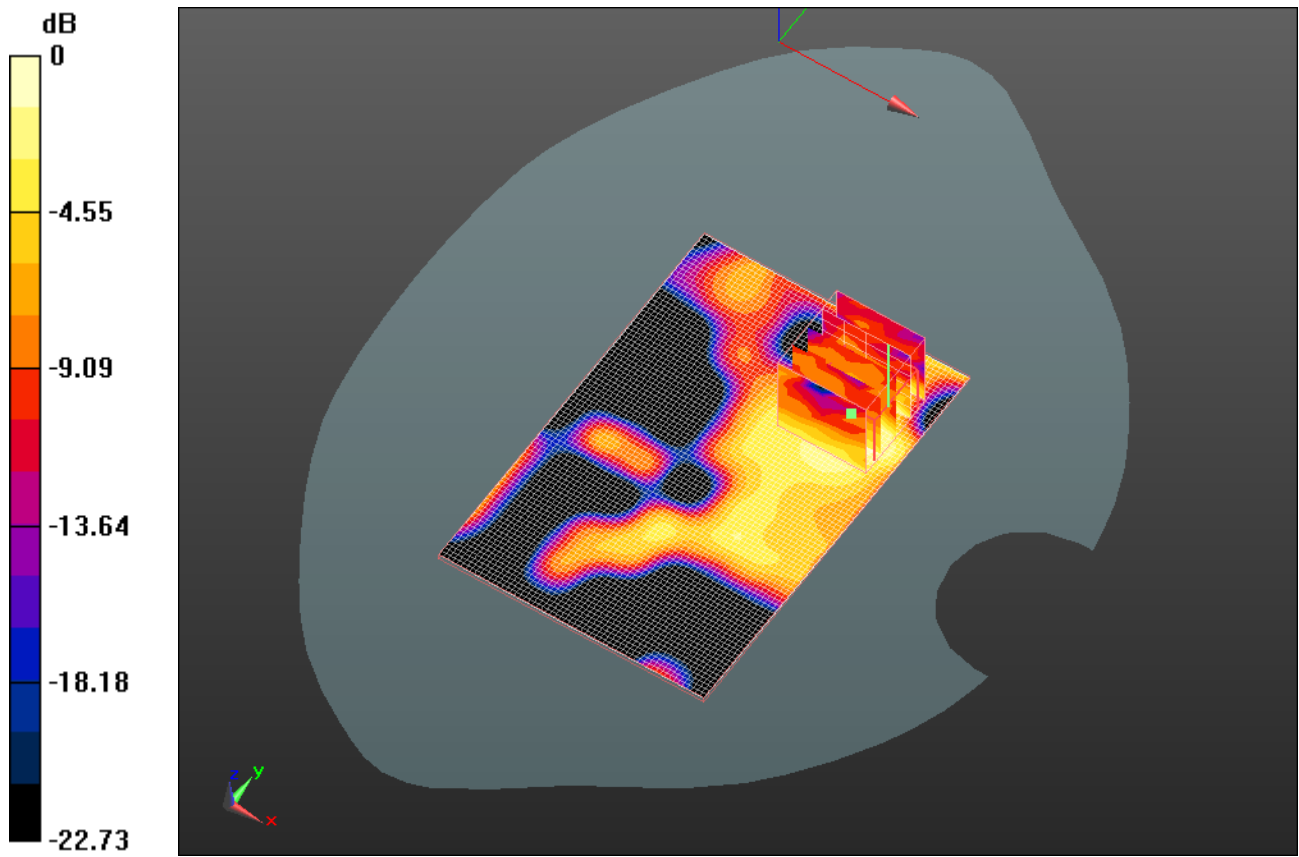
Peak SAR (extrapolated) = 0.00873 W/kg

SAR(1 g) = 0.00436 mW/g; SAR(10 g) = 0.00224 mW/g


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

Maximum value of SAR (measured) = 0.00586 mW/g

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0 dB = 0.0059mW/g

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Date/Time: 9/28/2011 5:20:12 PM, Date/Time: 9/28/2011 5:33:39 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11a_low_band_chan_36_amb_temp_22.4_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: 802.11a ; Frequency: 5180 MHz

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.596$ mho/m; $\epsilon_r = 46.413$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.95, 3.95, 3.95); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position - 2/Area Scan (91x131x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.607 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step


(4x4x2.5mm), Graded ,dist=2mm (9x9x5)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

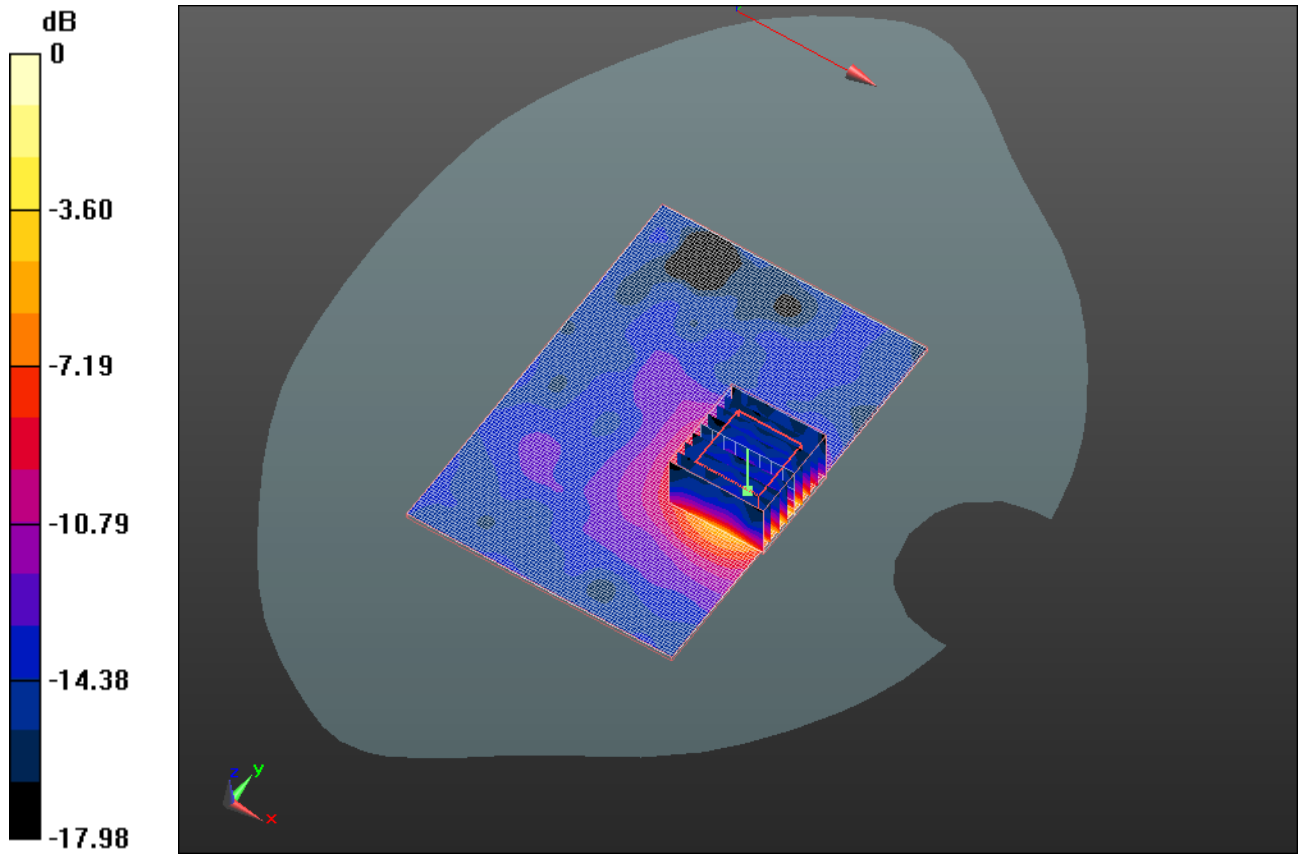
Reference Value = 11.566 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.965 W/kg


SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.128 mW/g

Maximum value of SAR (measured) = 0.591 mW/g

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0 dB = 0.590mW/g

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Date/Time: 9/28/2011 6:13:32 PM, Date/Time: 9/28/2011 6:26:55 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11a_low_band_chan_52_amb_temp_22.2_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.725$ mho/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.95, 3.95, 3.95); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position - 2/Area Scan (91x131x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.786 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step


(4x4x2.5mm), Graded, dist=2mm (9x9x5)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

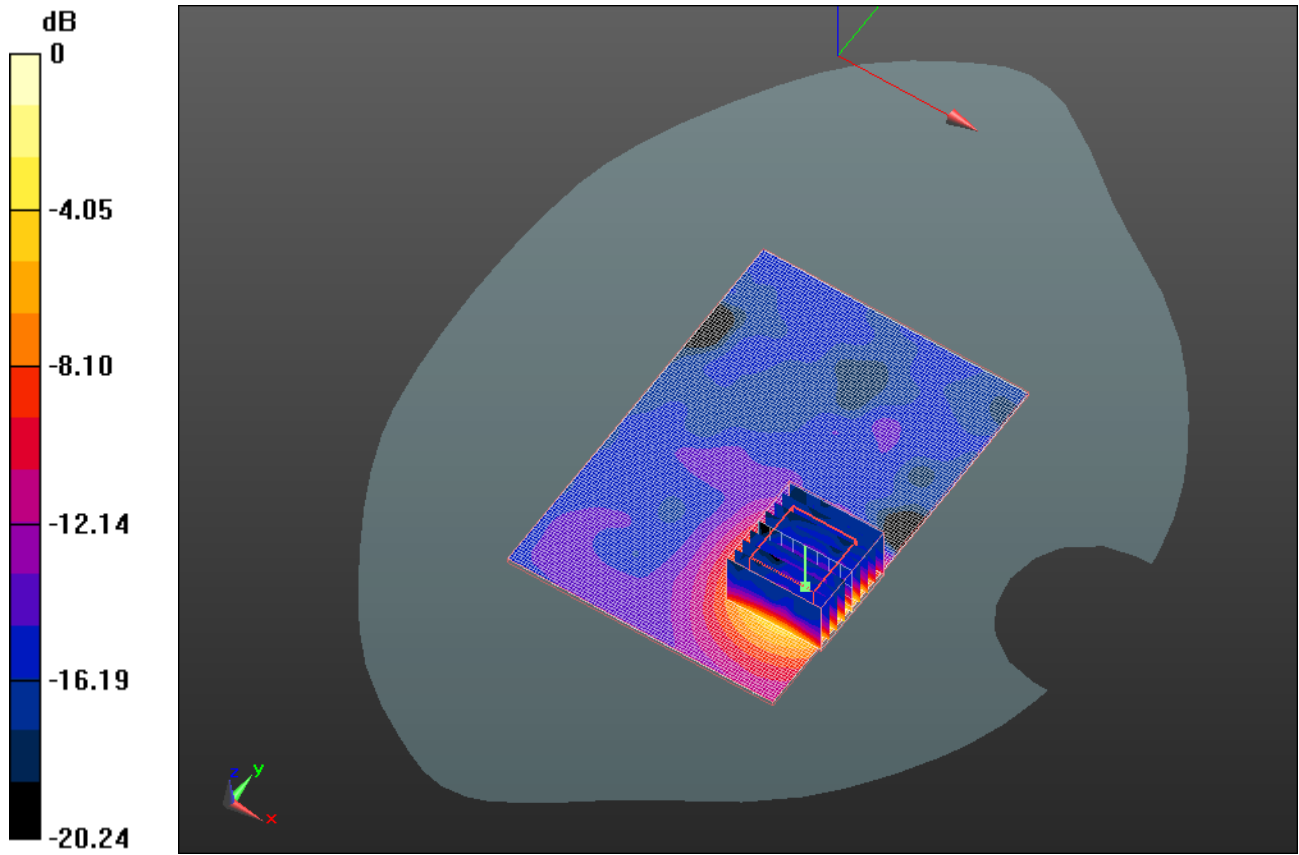
Reference Value = 12.555 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 1.391 W/kg


SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.801 mW/g

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0 dB = 0.800mW/g

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Date/Time: 9/28/2011 7:02:50 PM, Date/Time: 9/28/2011 7:16:19 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11a_upper_band_I_chan_104_amb_temp_22.2_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: 802.11a ; Frequency: 5520 MHz

Medium parameters used: $f = 5520$ MHz; $\sigma = 5.994$ mho/m; $\epsilon_r = 45.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.73, 3.73, 3.73); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position - 2/Area Scan (91x131x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.407 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step

(4x4x2.5mm), Graded ,dist=2mm (9x9x5)/Cube 0: Measurement grid: $dx=4$ mm,


$dy=4$ mm, $dz=2.5$ mm

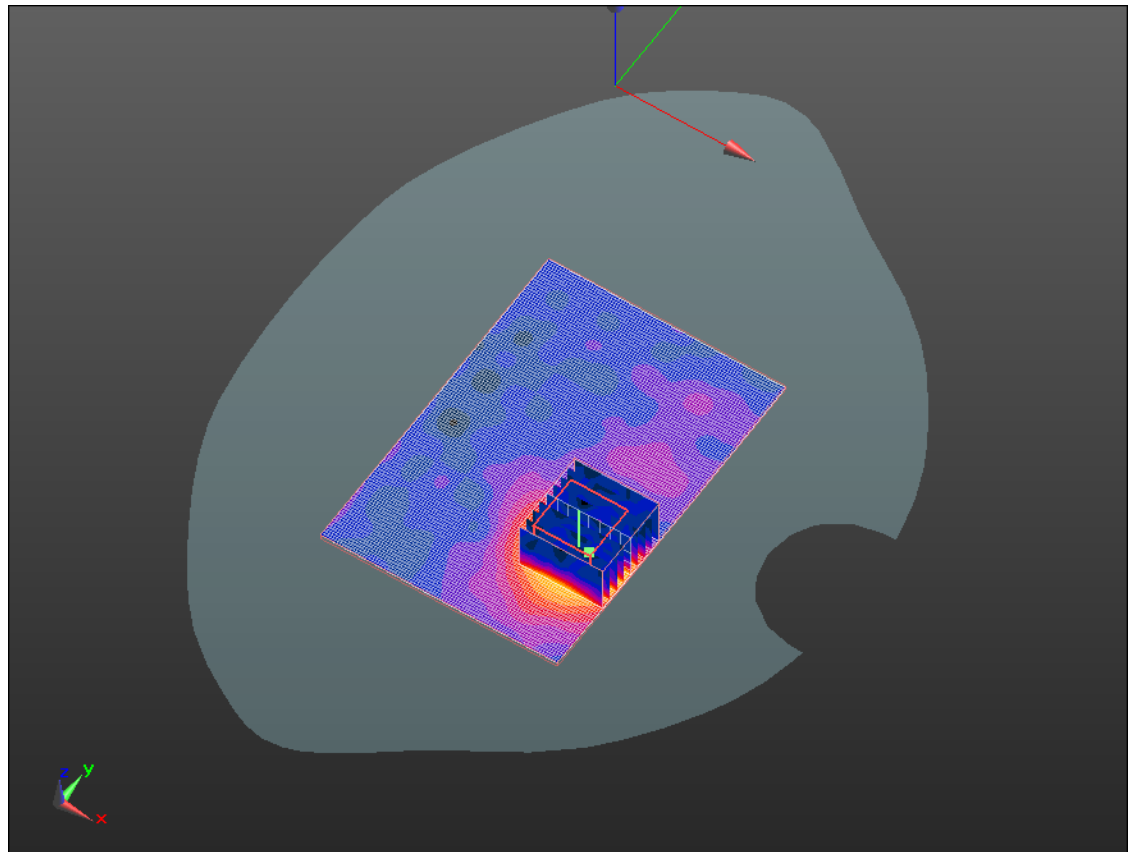
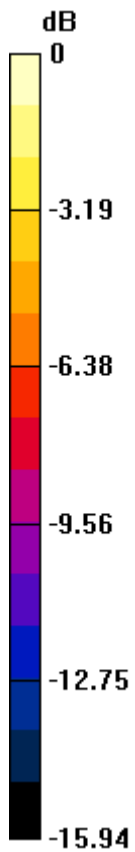
Reference Value = 8.484 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.706 W/kg


SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.090 mW/g

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

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0 dB = 0.390mW/g

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Date/Time: 9/28/2011 8:52:51 PM, Date/Time: 9/28/2011 9:06:17 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_802.11a_upper_band_II_chan_149_amb_temp_22
.2_liq_temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: 802.11a ; Frequency: 5745 MHz

Medium parameters used: $f = 5745$ MHz; $\sigma = 6.289$ mho/m; $\epsilon_r = 44.92$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.4, 3.4, 3.4); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position - 2/Area Scan (91x131x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.056 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step

(4x4x2.5mm), Graded ,dist=2mm (11x12x5)/Cube 0: Measurement grid:


$dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

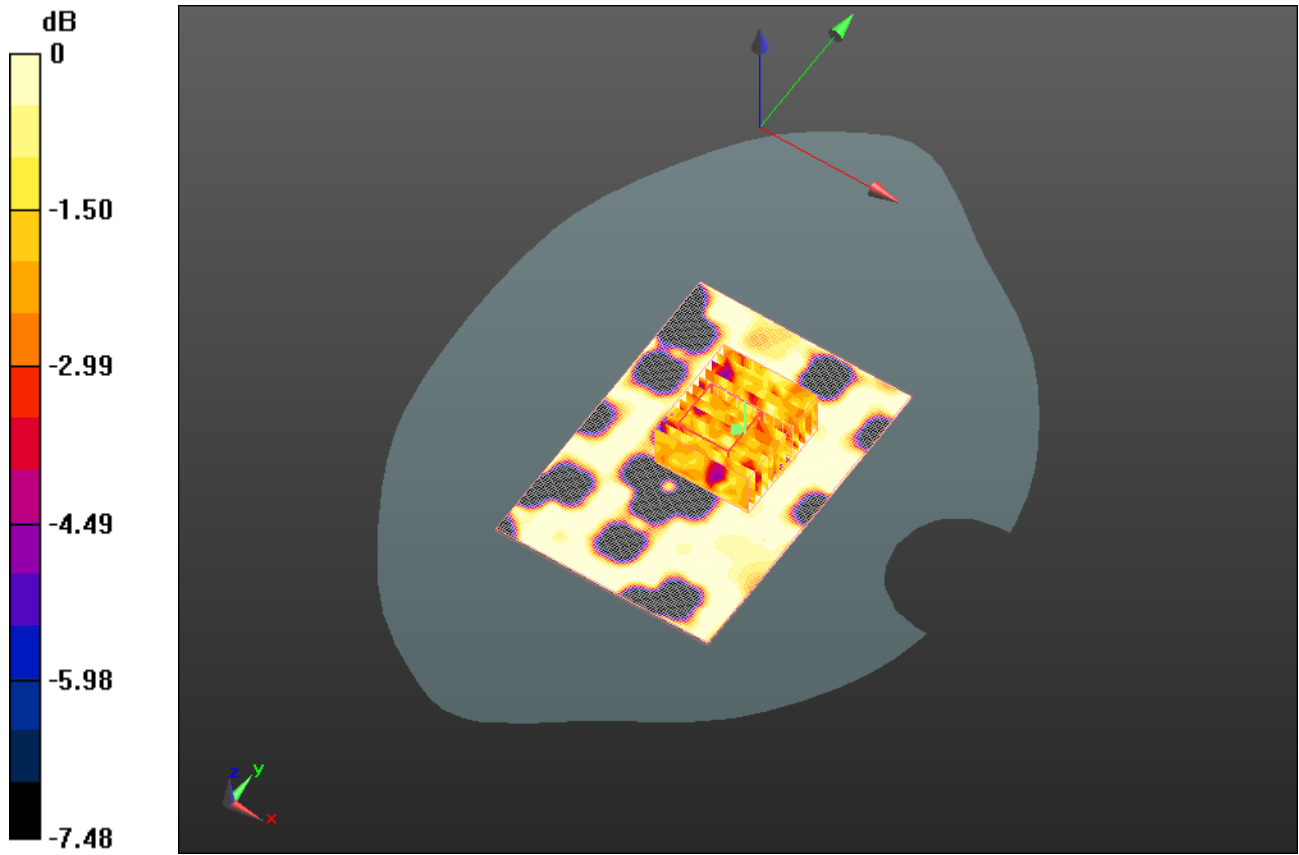
Reference Value = 2.334 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.046 W/kg


SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.031 mW/g

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0 dB = 0.030mW/g

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Date/Time: 9/28/2011 9:51:28 PM, Date/Time: 9/28/2011 10:13:54 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Front_802.11a_low_band_chan_52_amb_temp_22.2_liq
_temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.725$ mho/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.95, 3.95, 3.95); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position - 2/Area Scan (91x131x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.052 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step

(4x4x2.5mm), Graded ,dist=2mm (13x10x5)/Cube 0: Measurement grid:


$dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

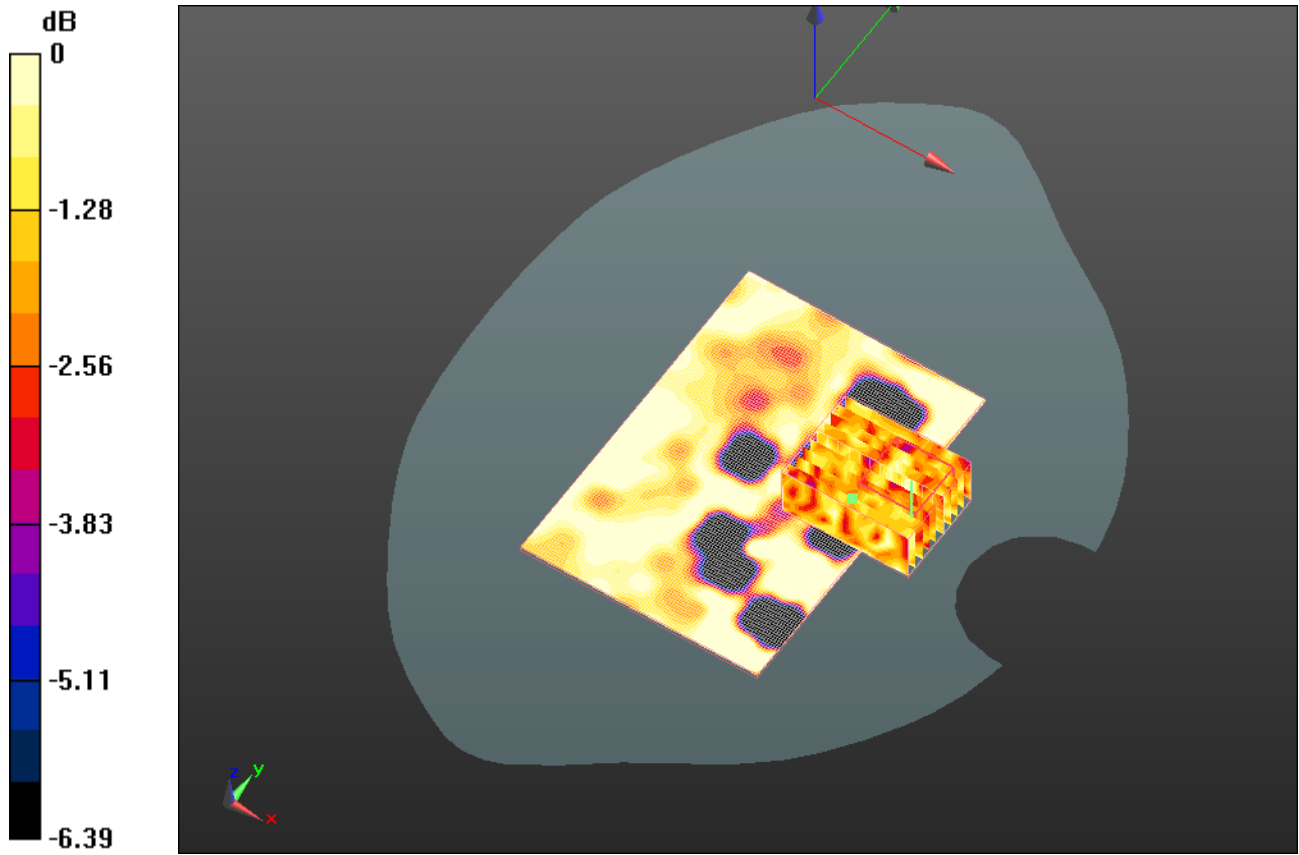
Reference Value = 1.715 V/m; Power Drift = 0.96 dB

Peak SAR (extrapolated) = 0.044 W/kg


SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.023 mW/g

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0 dB = 0.020mW/g

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Date/Time: 9/28/2011 11:46:27 PM, Date/Time: 9/28/2011 11:59:55 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_802.11a_low_band_chan_52_amb_temp
_22.2_liq_temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.725$ mho/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.95, 3.95, 3.95); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position - 2/Area Scan (91x131x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.961 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step

(4x4x2.5mm),Graded, dist=2mm (9x9x5)/Cube 0: Measurement grid: dx=4mm,


dy=4mm, dz=2.5mm

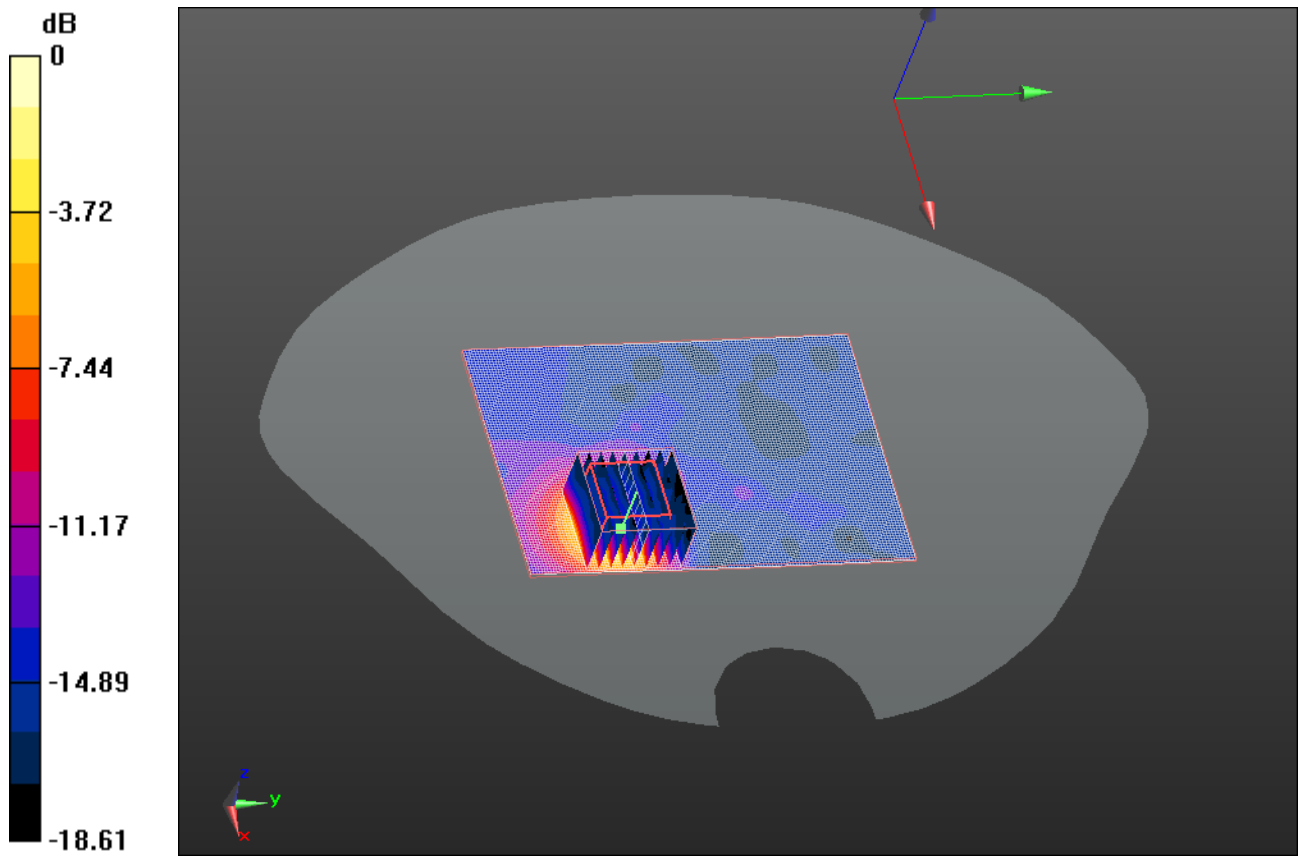
Reference Value = 14.033 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.579 W/kg


SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.188 mW/g

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

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0 dB = 0.920mW/g

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Date/Time: 9/29/2011 12:36:50 AM, Date/Time: 9/29/2011 12:50:14 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_Ungraded_802.11a_low_band_chan_52_amb_temp_22.2_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 28403322

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.725$ mho/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.95, 3.95, 3.95); Calibrated: 11/17/2009
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position - 2/Area Scan (91x131x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.972 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm),Ungraded, dist=2mm (9x9x9)/Cube 0: Measurement grid:


$dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

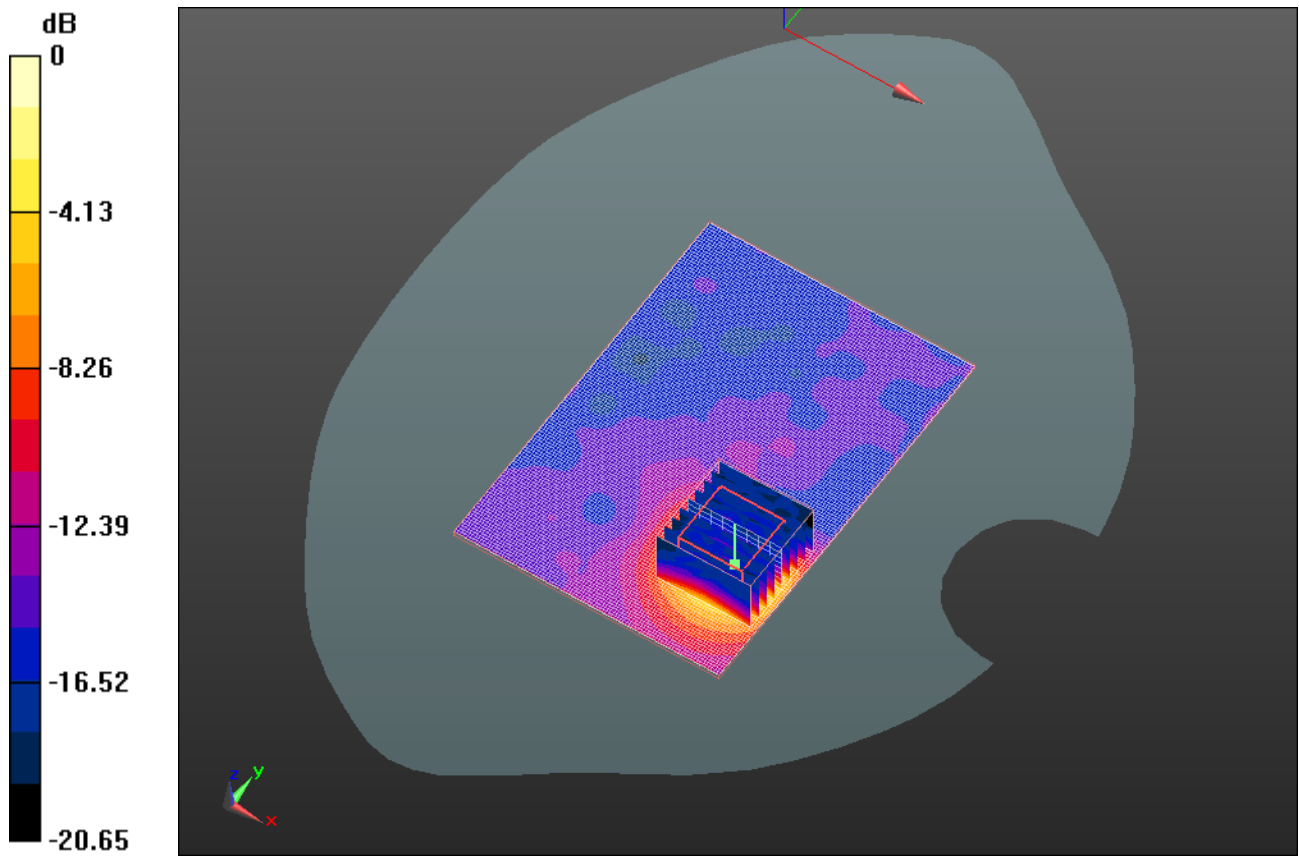
Reference Value = 14.059 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.647 W/kg


SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.187 mW/g

Maximum value of SAR (measured) = 0.916 mW/g

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0 dB = 0.920mW/g

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Z axis plot for the worst case body configuration

