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	Author Data <b>Hang Wang</b>	Dates of Test <b>Nov 25 - 29, 2010</b>	Test Report No <b>RTS-2337-1012-25</b>	FCC ID: <b>L6ARCY70UW</b>

**APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION**

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Date/Time: 11/29/2010 7:13:04 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_802.11b\_mid\_chan\_amb\_temp\_23.8C\_liq\_temp\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.105 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.11 V/m; Power Drift = -0.194 dB

Peak SAR (extrapolated) = 0.174 W/kg

**SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.055 mW/g**

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

Maximum value of SAR (measured) = 0.108 mW/g

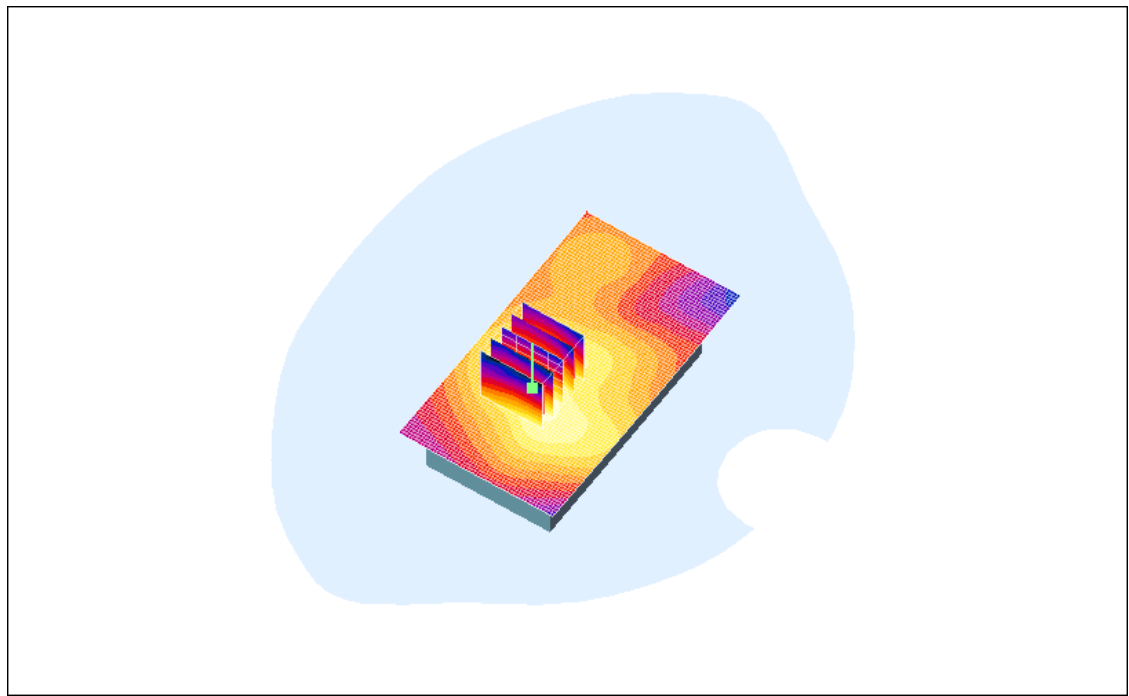
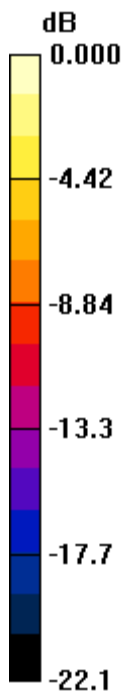
Author Data  
**Hang Wang**

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0 dB = 0.108mW/g

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Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Front\_802.11b\_mid\_chan\_amb\_temp\_23.8C\_liq\_temp\_22.6C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.066 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.25 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 0.112 W/kg

**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.034 mW/g**

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

Maximum value of SAR (measured) = 0.071 mW/g

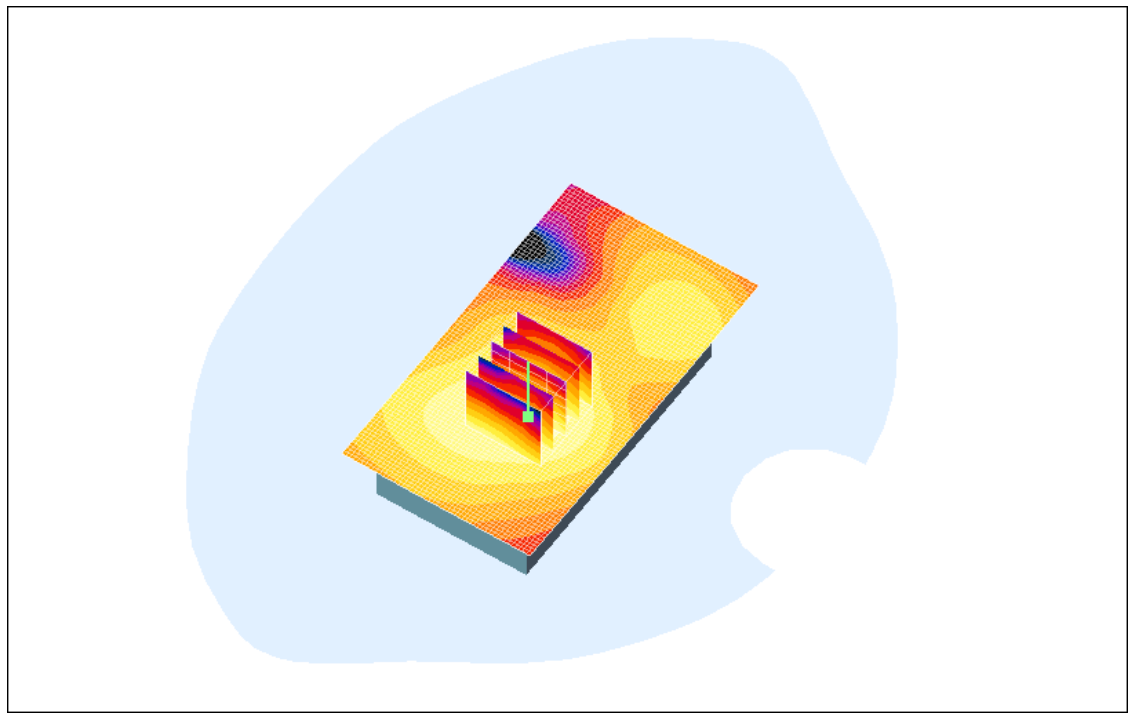
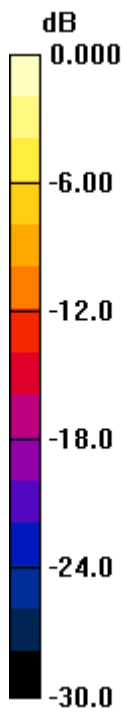
Author Data  
**Hang Wang**

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0 dB = 0.071mW/g

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Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_HS#1\_802.11b\_mid\_chan\_amb\_temp\_23.8C\_liq\_  
temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.086 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.63 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 0.147 W/kg

**SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.046 mW/g**

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

Maximum value of SAR (measured) = 0.090 mW/g

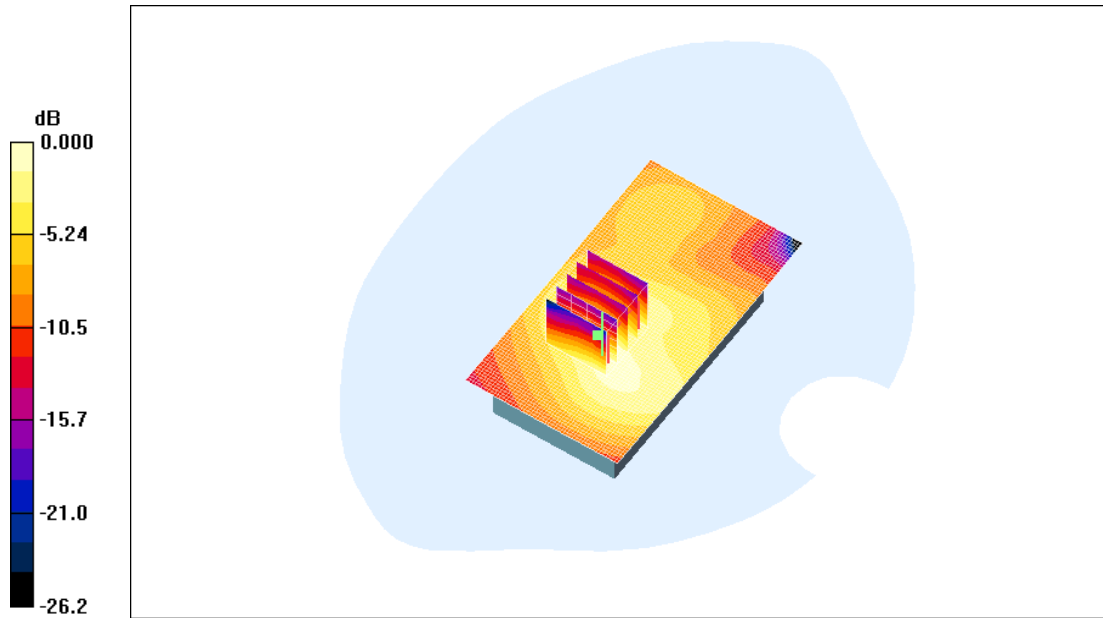
Author Data  
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0 dB = 0.090mW/g

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Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_HS#2\_802.11b\_mid\_chan\_amb\_temp\_23.8C\_liq\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.077 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.63 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.130 W/kg

**SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.040 mW/g**

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

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



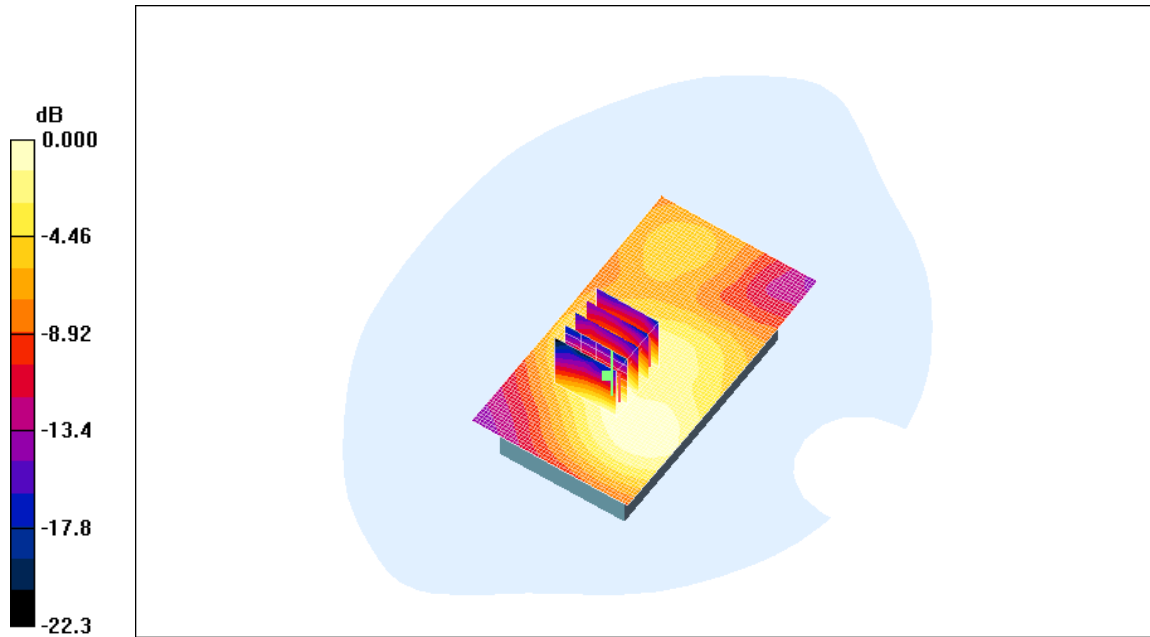
Author Data  
**Hang Wang**

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0 dB = 0.078mW/g

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Test Laboratory: RIM Testing Services

**Vertical\_Holster\_Back\_HS#3\_802.11b\_mid\_chan\_amb\_temp\_23.7C\_liq\_  
temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.088 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.46 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.147 W/kg

**SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.045 mW/g**

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

Maximum value of SAR (measured) = 0.089 mW/g

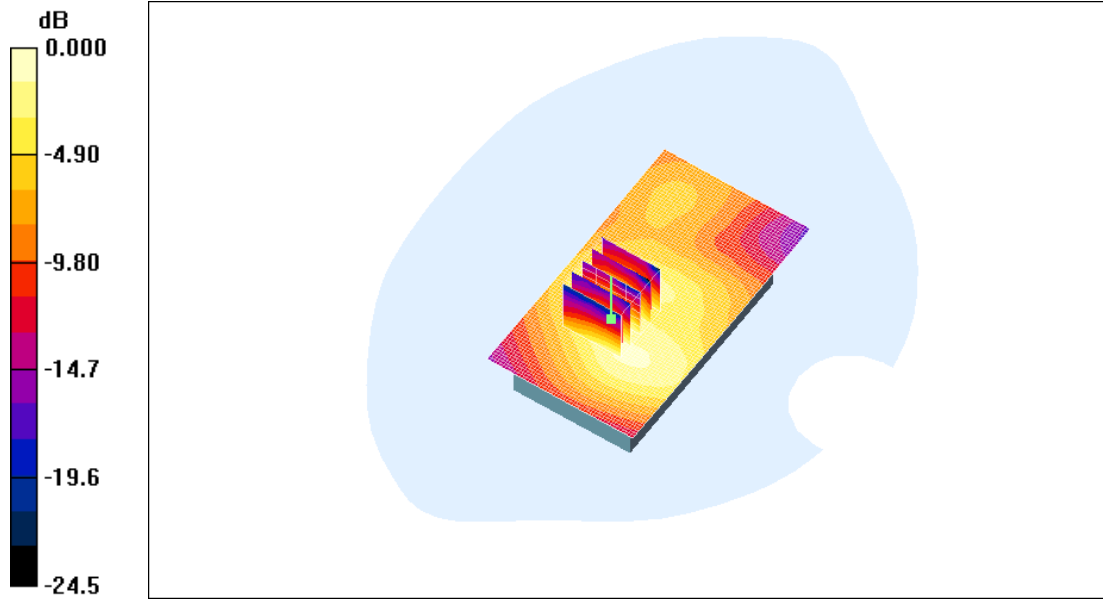
Author Data  
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0 dB = 0.089mW/g

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Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

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Test Laboratory: RIM Testing Services

## 25mm\_Spacer\_802.11b\_mid\_chan\_amb\_temp\_23.8C\_liq\_temp\_22.6C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.042 mW/g

**Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.92 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.067 W/kg

**SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.023 mW/g**

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

Maximum value of SAR (measured) = 0.041 mW/g

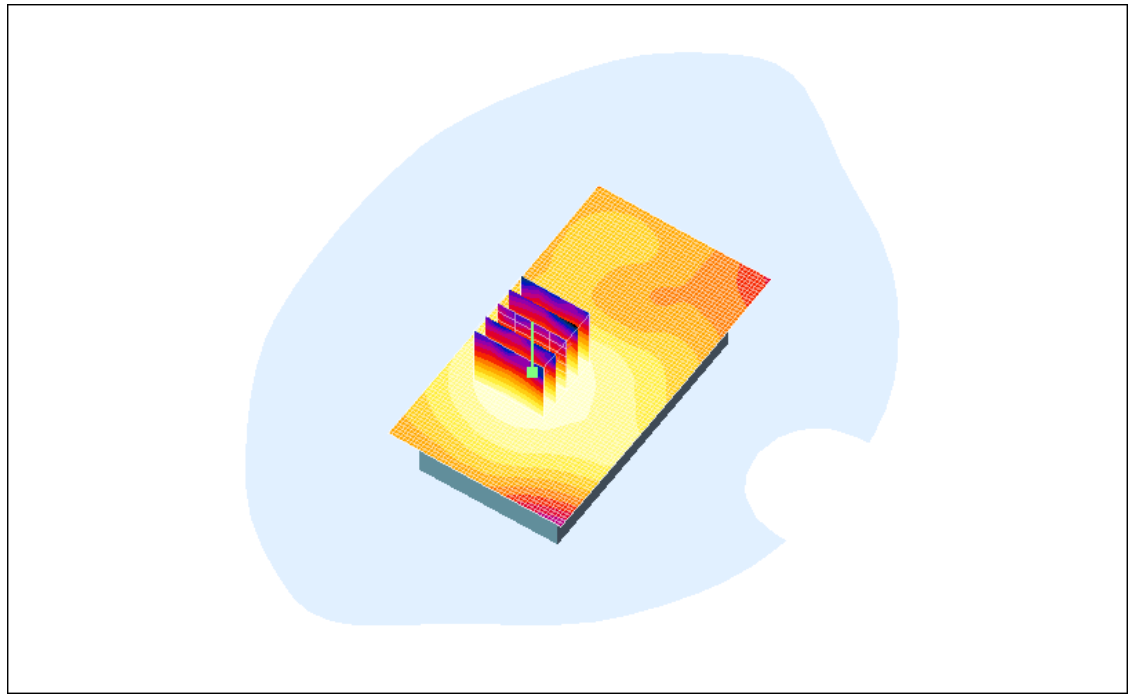
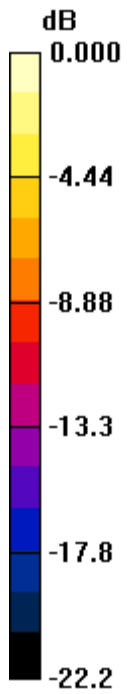
Author Data  
**Hang Wang**

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0 dB = 0.041mW/g

Author Data  
**Hang Wang**

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### Worst Case Body SAR

