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Author Data Andrew Becker	Dates of Test February 23 – March 13, 2012	Test Report No RTS-5994-1203-76	FCC ID: L6ARFC30CW	IC ID 2503A-RFC30CW	

## APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Date/Time: 3/9/2012 9:49:20 AM

Test Laboratory: RIM Testing Services

## DipoleValidation\_1800MHz\_03\_09\_12\_Amb\_Tem\_22.5\_Liq\_Tem\_21.1C

**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d020**

Communication System: CW; Frequency: 1800 MHz

Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.476 \text{ mho/m}$ ;  $\epsilon_r = 40.041$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1):** Measurement

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

Maximum value of SAR (interpolated) =  $47.452 \text{ mW/g}$

**Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube**


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

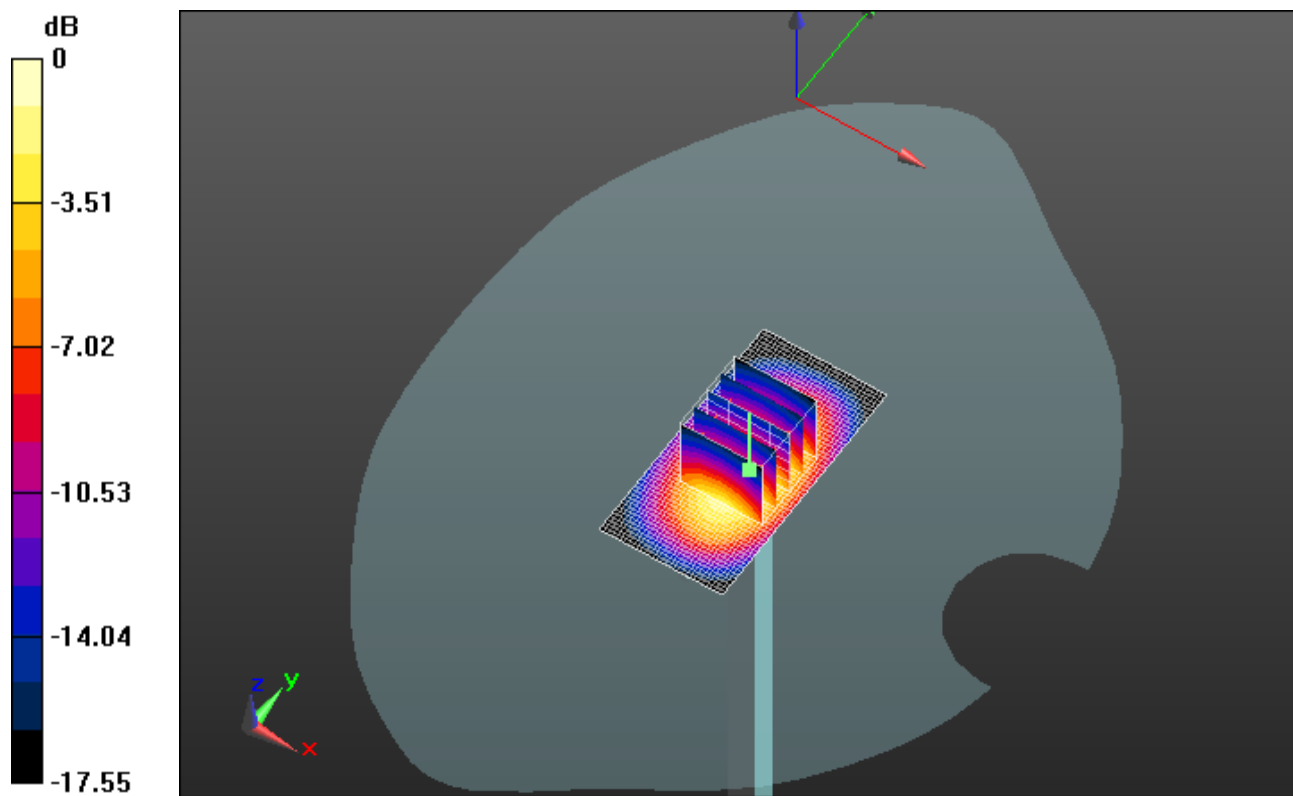
Reference Value =  $185.6 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$

Peak SAR (extrapolated) =  $68.6790$


**SAR(1 g) =  $37.4 \text{ mW/g}$ ; SAR(10 g) =  $19.4 \text{ mW/g}$**

Maximum value of SAR (measured) =  $47.615 \text{ mW/g}$

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0 dB = 47.620mW/g = 33.56 dB mW/g

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Date/Time: 3/12/2012 9:48:09 AM

Test Laboratory: RIM Testing Services

**DipoleValidation\_1800MHz\_03\_12\_12\_Amb\_Tem\_22.3\_Liq\_Tem\_21.1C**

**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d020**

Communication System: CW; Frequency: 1800 MHz

Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 40.756$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1):** Measurement

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

Maximum value of SAR (interpolated) =  $46.354 \text{ mW/g}$

**Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube**


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

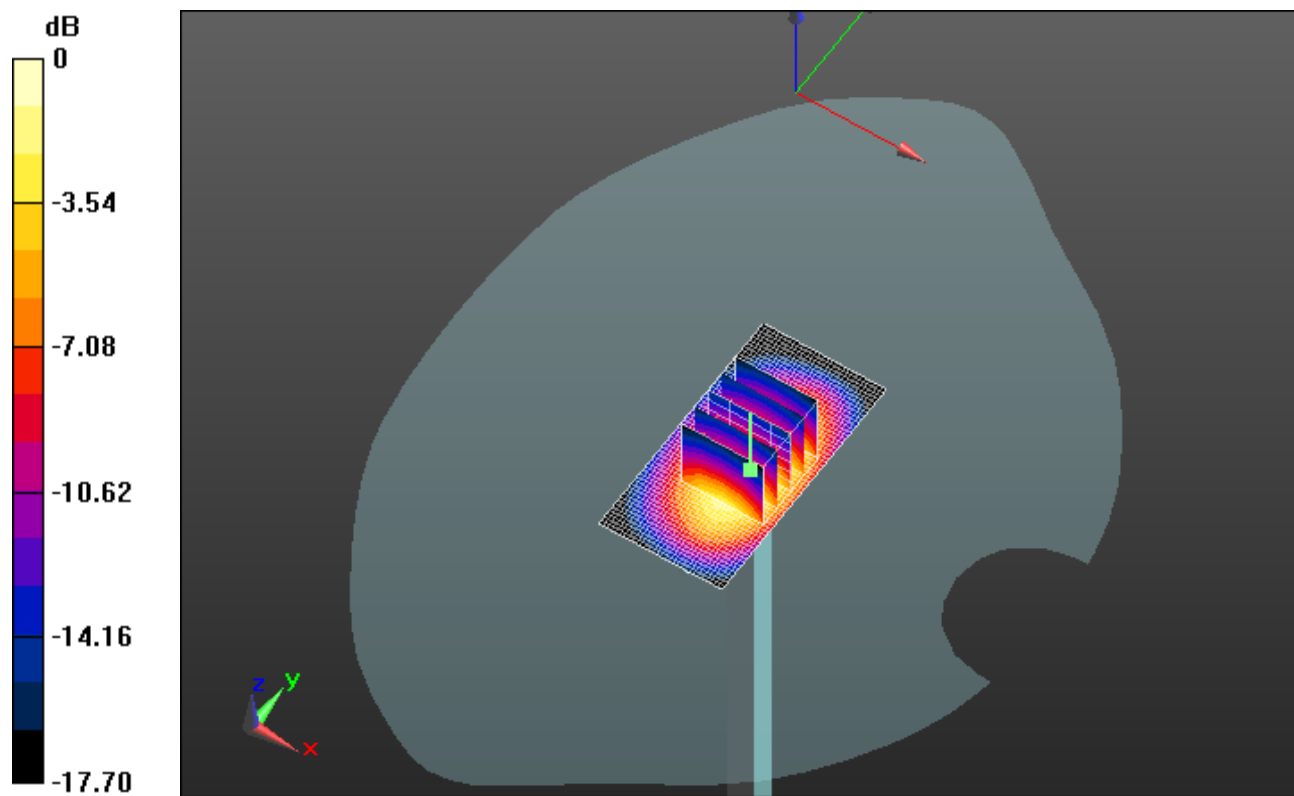
Reference Value =  $183.5 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$

Peak SAR (extrapolated) =  $67.3330$

**SAR(1 g) =  $36.6 \text{ mW/g}$ ; SAR(10 g) =  $19 \text{ mW/g}$**

Maximum value of SAR (measured) =  $46.646 \text{ mW/g}$

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0 dB = 46.650mW/g = 33.38 dB mW/g