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	Author Data <b>Andrew Becker</b>	Dates of Test <b>January 18 – 25 , 2012</b>	Test Report No <b>RTS-5993-1202-01</b>	FCC ID: <b>L6AREX40GW</b>

**APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION**

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Date/Time: 1/18/2012 1:11:09 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_835MHz\_01\_18\_12\_Amb\_Tem\_23.7\_Liq\_Tem\_20.0C

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446**

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.892 \text{ mho/m}$ ;  $\epsilon_r = 42.61$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.59, 6.59, 6.59); Calibrated: 3/9/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1):** Measurement

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

Maximum value of SAR (interpolated) = 10.144 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2**

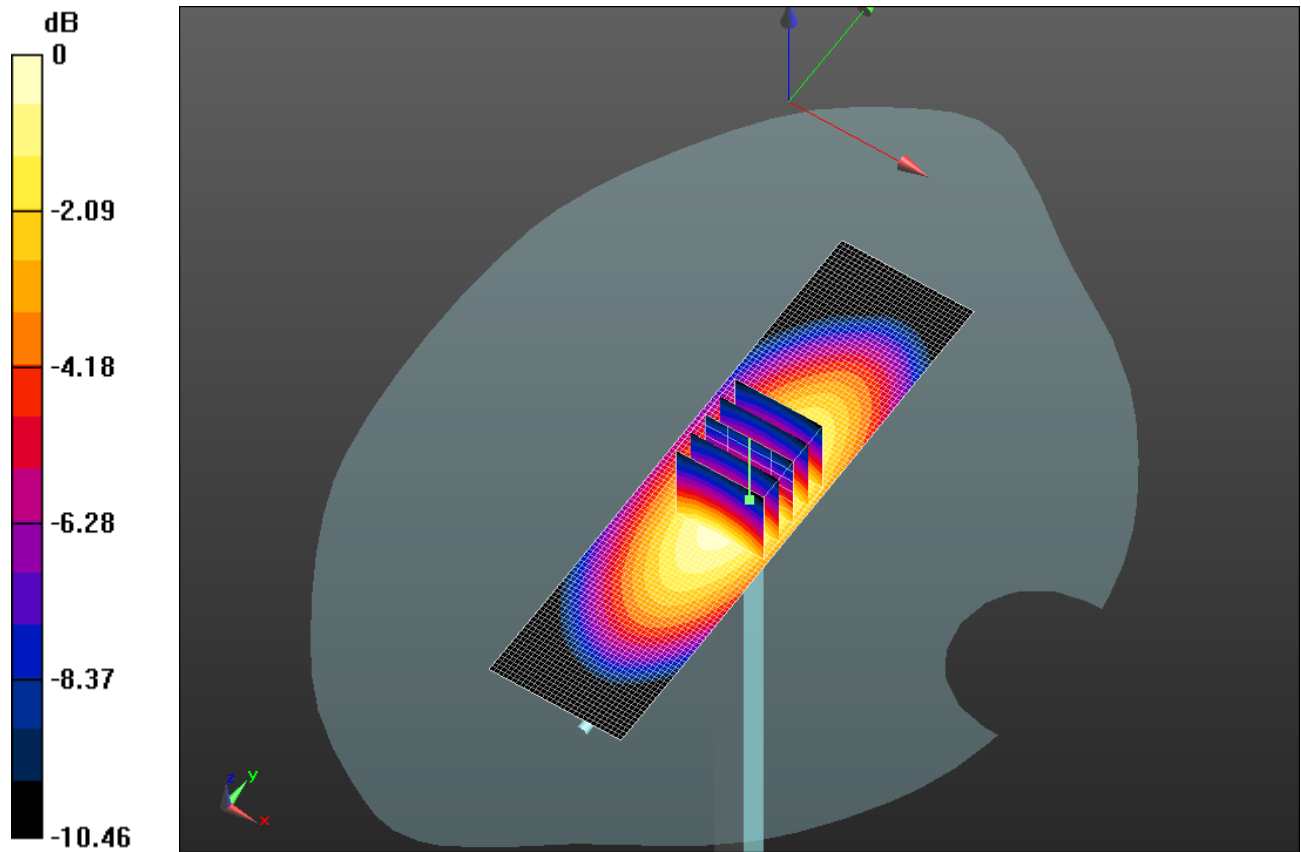
**(5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 110.8 V/m; Power Drift = 0.0097 dB


Peak SAR (extrapolated) = 13.3160

**SAR(1 g) = 9.35 mW/g; SAR(10 g) = 6.17 mW/g**

Maximum value of SAR (measured) = 10.138 mW/g



0 dB = 10.140mW/g = 20.12 dB mW/g

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Date/Time: 1/23/2012 4:18:19 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_1900MHz\_01\_23\_12\_Amb\_Tem\_23.4\_Liq\_Tem\_20.1C

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545**

Communication System: CW; Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.429$  mho/m;  $\epsilon_r = 39.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.15, 5.15, 5.15); Calibrated: 3/9/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- 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:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 43.826 mW/g

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

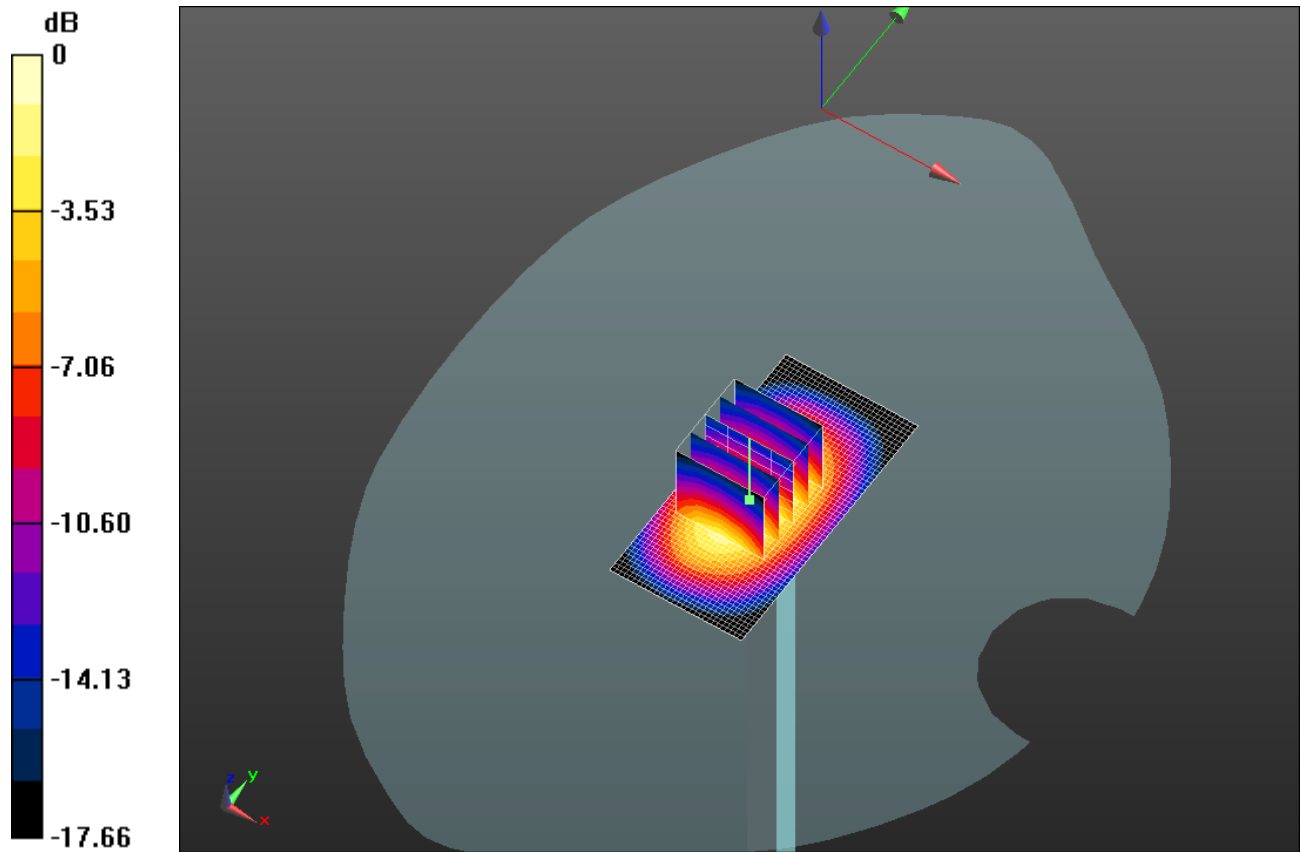
**0:** Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 165.0 V/m; Power Drift = -0.04 dB


Peak SAR (extrapolated) = 67.3020

**SAR(1 g) = 37.8 mW/g; SAR(10 g) = 19.8 mW/g**

Maximum value of SAR (measured) = 42.389 mW/g



0 dB = 42.390mW/g = 32.55 dB mW/g

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Date/Time: 1/25/2012 11:27:24 AM

Test Laboratory: RIM Testing Services

## DipoleValidation\_2450MHz\_01\_25\_12\_Amb\_Tem\_22.2\_Liq\_Tem\_21.2C

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747**

Communication System: CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.893$  mho/m;  $\epsilon_r = 40.721$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.34, 4.34, 4.34); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- 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 (31x41x1):** Measurement

grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 68.877 mW/g

**Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube**

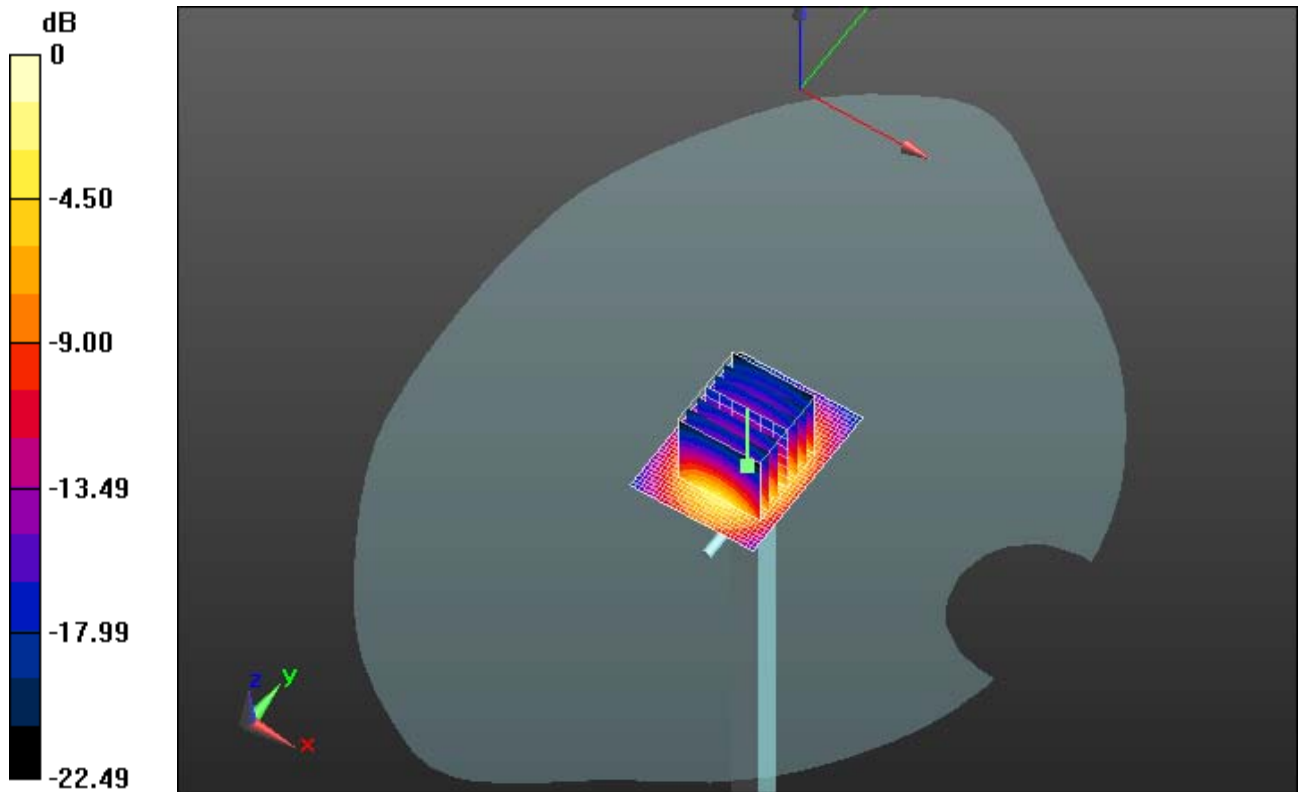
**0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 190.2 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 135.00

**SAR(1 g) = 59.1 mW/g; SAR(10 g) = 26.9 mW/g**

Maximum value of SAR (measured) = 66.114 mW/g



0 dB = 66.110mW/g = 36.41 dB mW/g