APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

Date/Time: 1/27/2011 6:48:32 PM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_Amb_Tem_23.5_Liq_Tem_21.8C_01_27_11

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d043

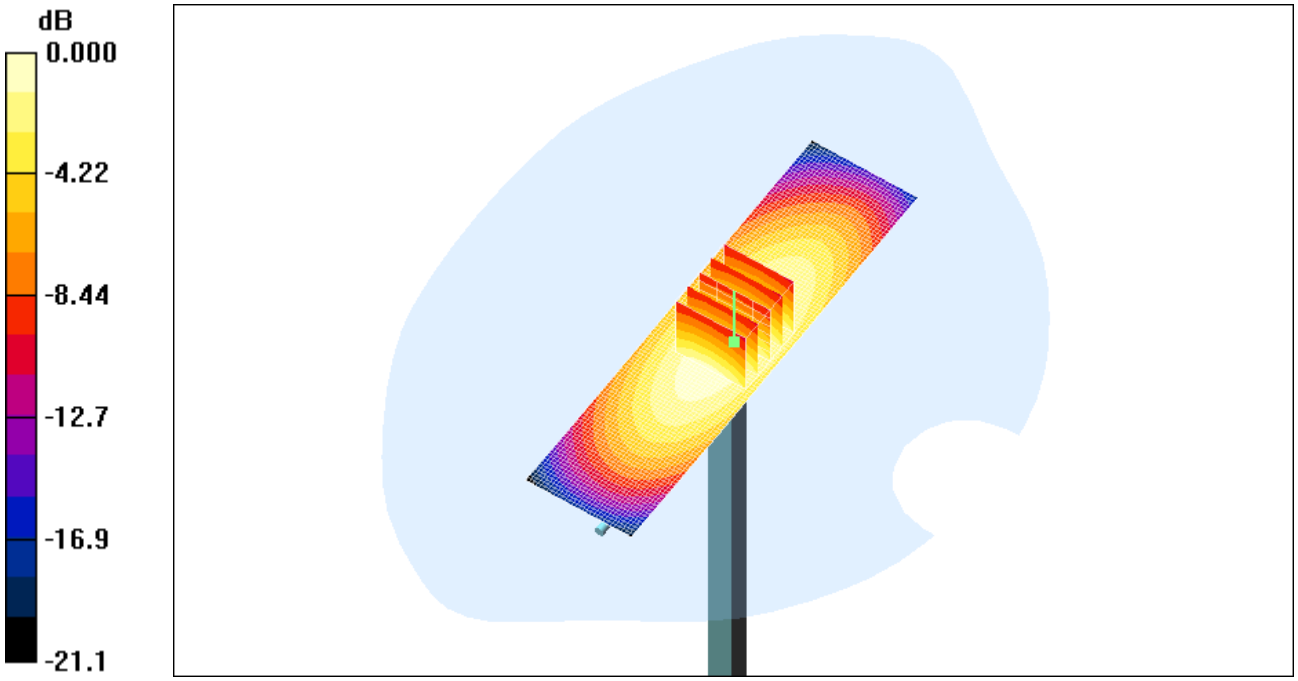
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.903 mho/m; ε_r = 42.1; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.01, 6.01, 6.01); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 109.1 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 13.3 W/kg
SAR(1 g) = 9.18 mW/g; SAR(10 g) = 6.02 mW/g
Maximum value of SAR (measured) = 9.91 mW/g

d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 9.83 mW/g



0 dB = 9.83mW/g

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Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_Amb_Tem_23.9_Liq_Tem_22.1C_04_20_11

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

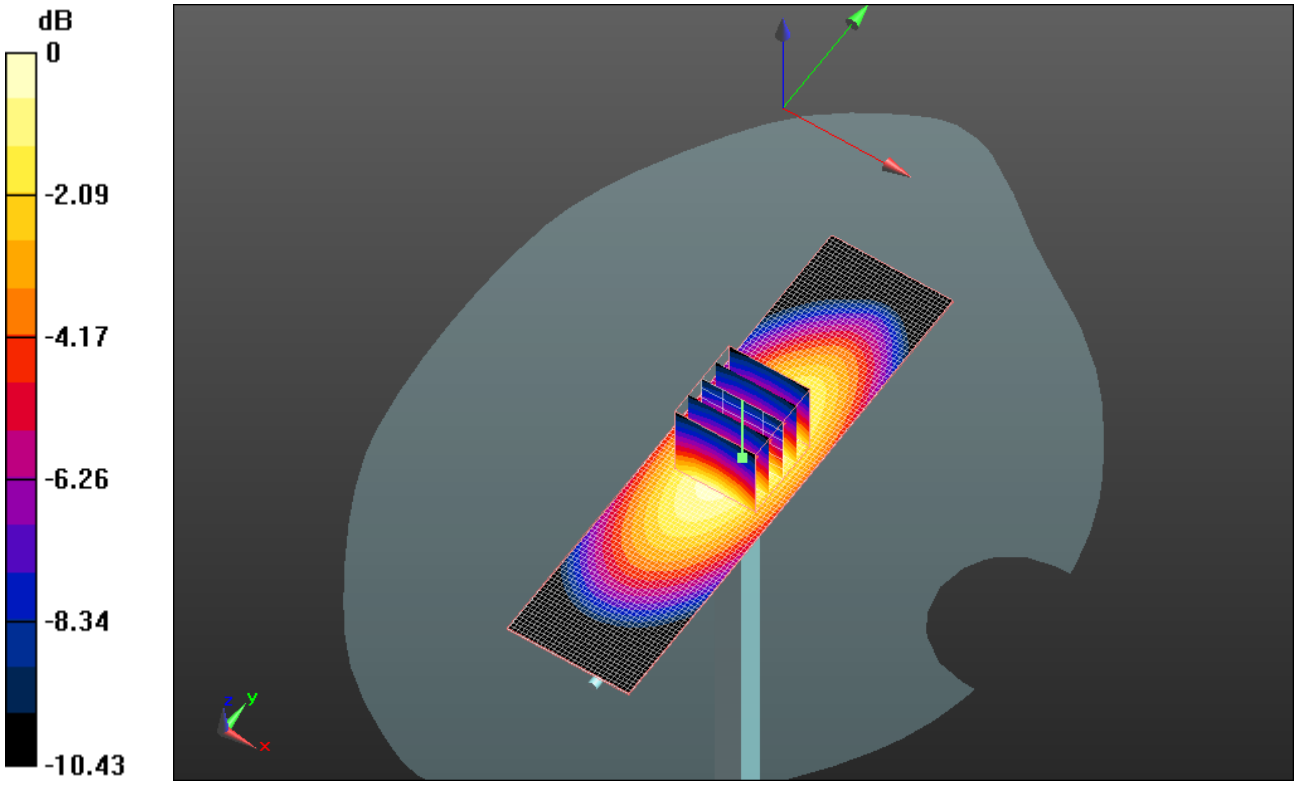
Communication System: CW; Communication System Band: Not Specified; Frequency: 835 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 835 MHz; σ = 0.875 mho/m; ε_r = 40.074; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
  - Modulation Compensation: Not calibrated
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 9.747 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 106.7 V/m; Power Drift = -0.00087 dB
Peak SAR (extrapolated) = 13.589 W/kg
SAR(1 g) = 9.1 mW/g; SAR(10 g) = 5.97 mW/g
Maximum value of SAR (measured) = 9.810 mW/g



0 dB = 9.810mW/g

Date/Time: 1/19/2011 11:35:01 PM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_Amb_Tem_23.8_Liq_Tem_21.9C_01_19_11

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d075

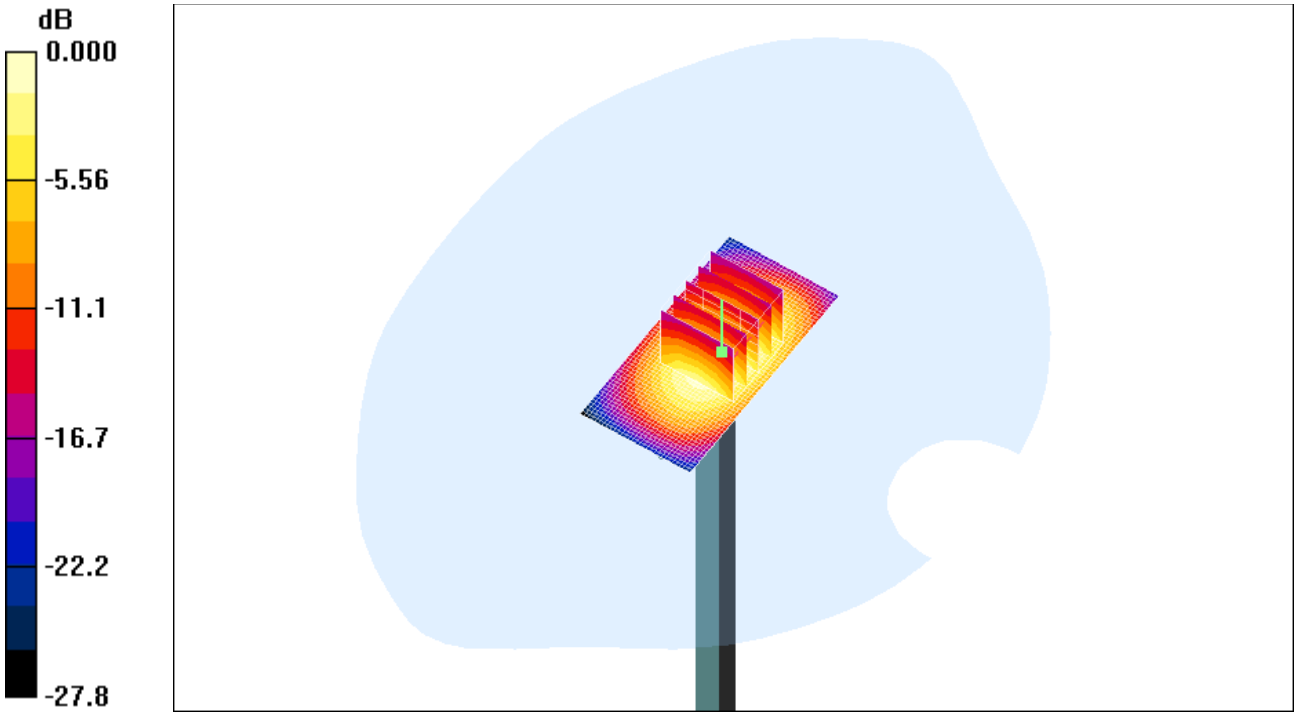
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.34 mho/m; ε_r = 39.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.09, 5.09, 5.09); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 193.3 V/m; Power Drift = -0.009 dB
Peak SAR (extrapolated) = 75.5 W/kg
SAR(1 g) = 41 mW/g; SAR(10 g) = 21.3 mW/g
Maximum value of SAR (measured) = 46.0 mW/g

d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 46.0 mW/g



0 dB = 46.0mW/g

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Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_Amb_Tem_23.8_Liq_Tem_22.1C_01_25_11

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d075

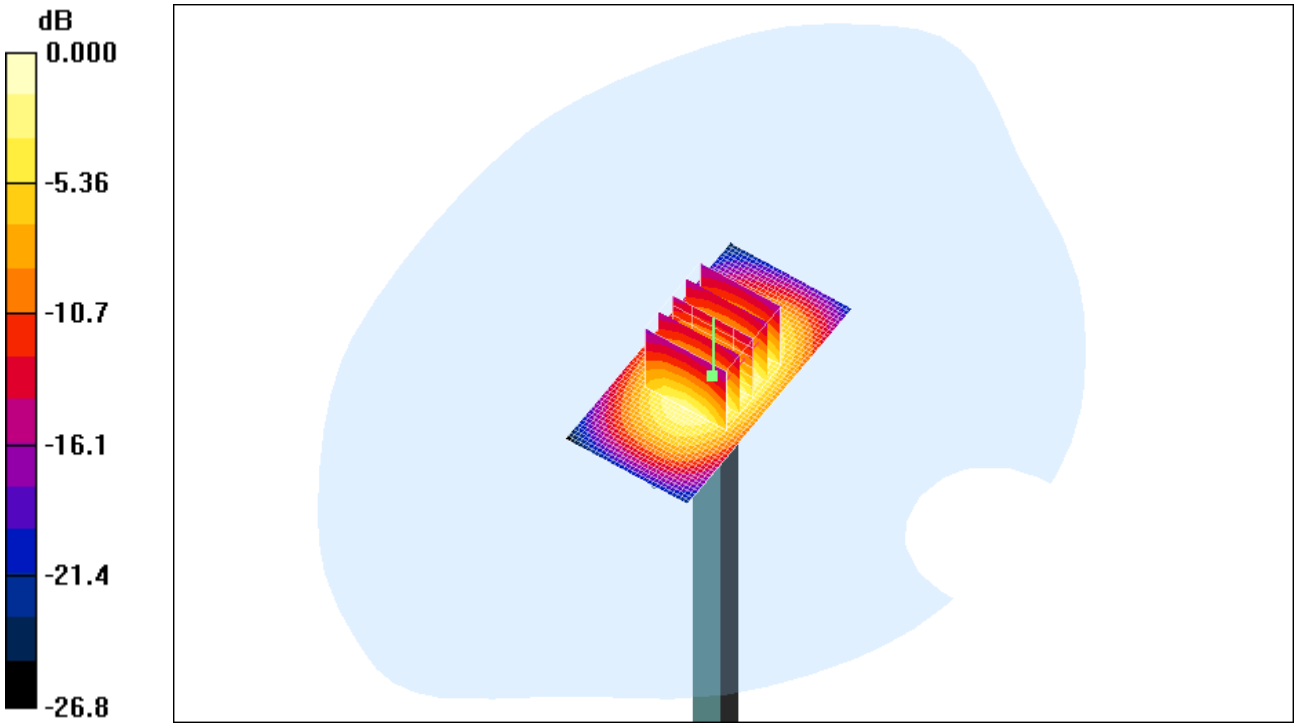
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.34 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.99, 4.99, 4.99); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 190.9 V/m; Power Drift = 0.006 dB
Peak SAR (extrapolated) = 64.9 W/kg
SAR(1 g) = 38.4 mW/g; SAR(10 g) = 20.4 mW/g
Maximum value of SAR (measured) = 43.3 mW/g

d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 43.8 mW/g



0 dB = 43.8mW/g

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Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_Amb_Tem_23.3_Liq_Tem_21.9_04_14_11

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

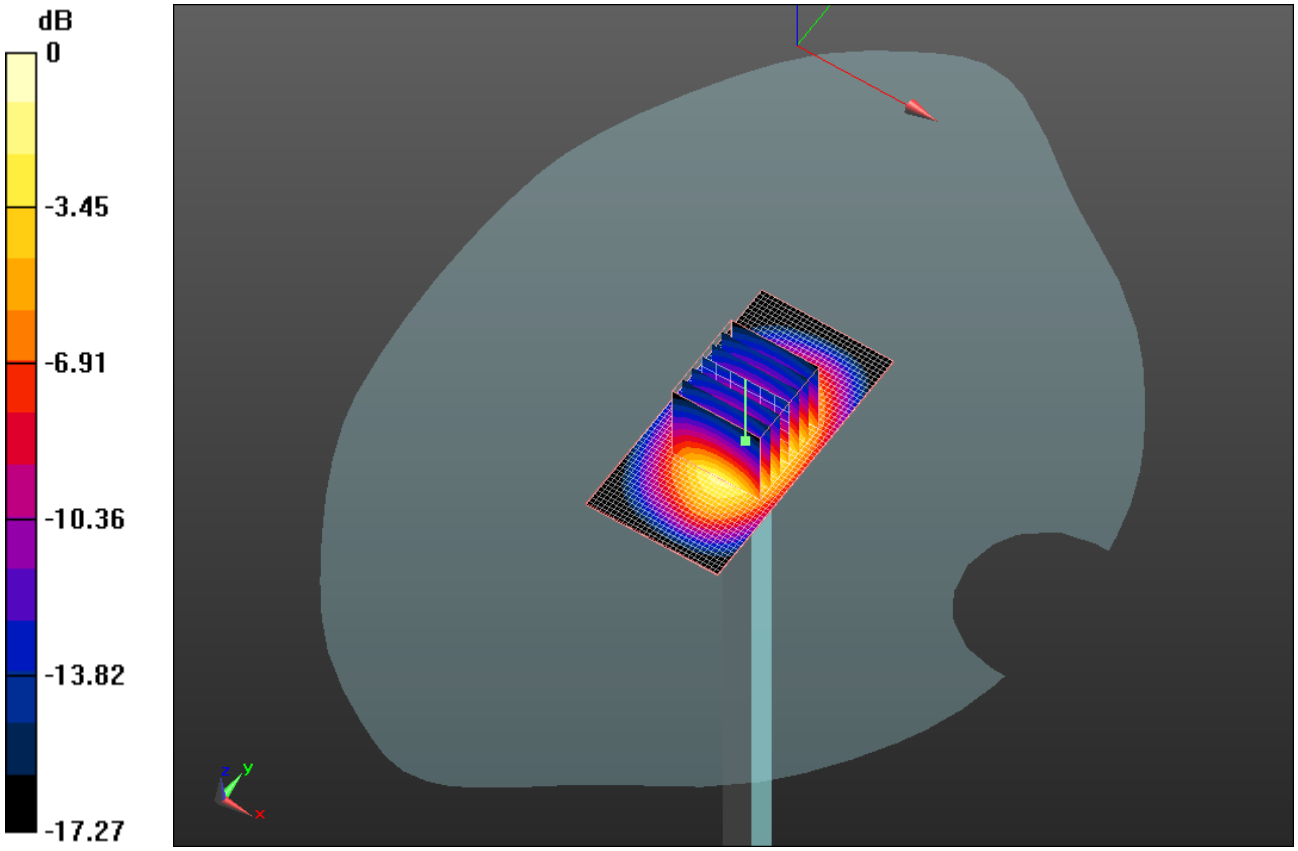
Communication System: CW; Communication System Band: Not Specified; Frequency: 1900 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1900 MHz; σ = 1.337 mho/m; ε_r = 39.751; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
  - Modulation Compensation: Not calibrated
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 41.584 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 178.3 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 67.708 W/kg
SAR(1 g) = 36.7 mW/g; SAR(10 g) = 19.2 mW/g
Maximum value of SAR (measured) = 41.383 mW/g



0 dB = 41.380mW/g

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Test Laboratory: RIM Testing Services

DipoleValidation_2450MHz_Amb_Tem_24.6_Liq_Tem_22.8C

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

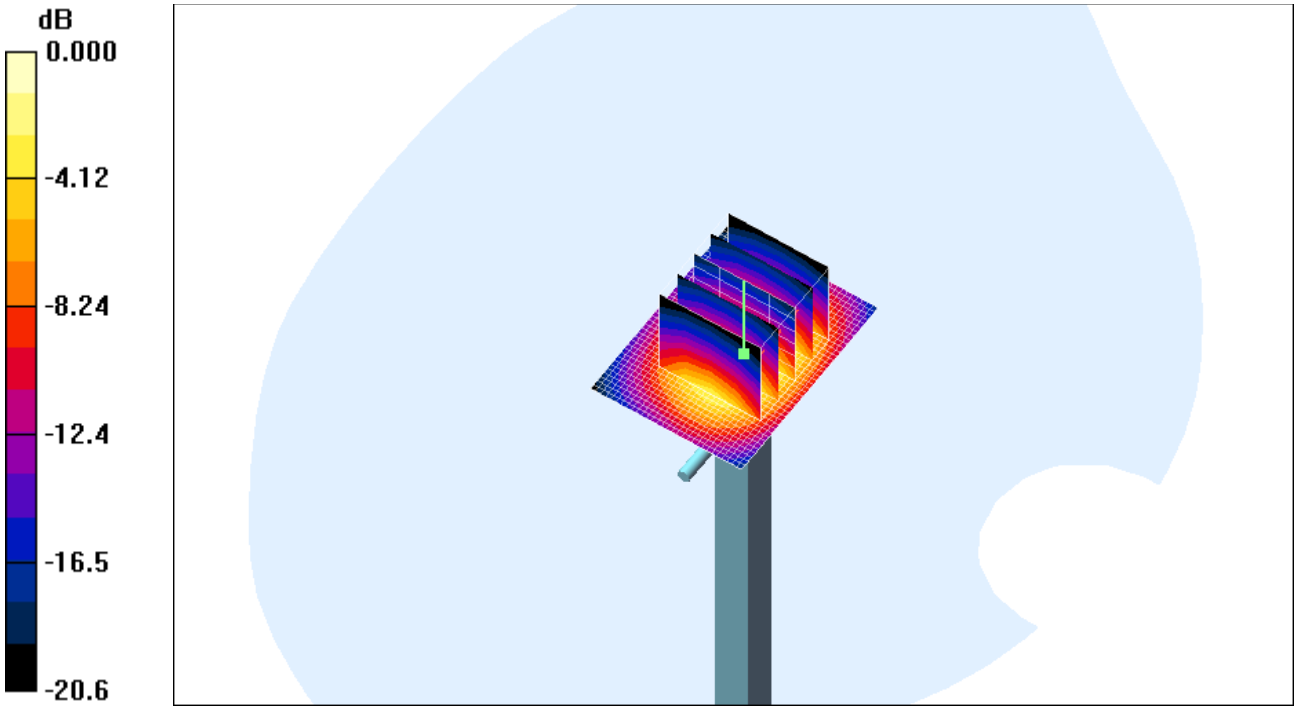
Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.87 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 193.9 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 133.9 W/kg
SAR(1 g) = 57.7 mW/g; SAR(10 g) = 26.3 mW/g
Maximum value of SAR (measured) = 64.5 mW/g

d=15mm, Pin=1000mW/Area Scan (31x41x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 65.1 mW/g



0 dB = 65.1mW/g

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Test Laboratory: RIM Testing Services

DipoleValidation_2450MHz_Amb_Tem_23.5_Liq_Tem_22.3C

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

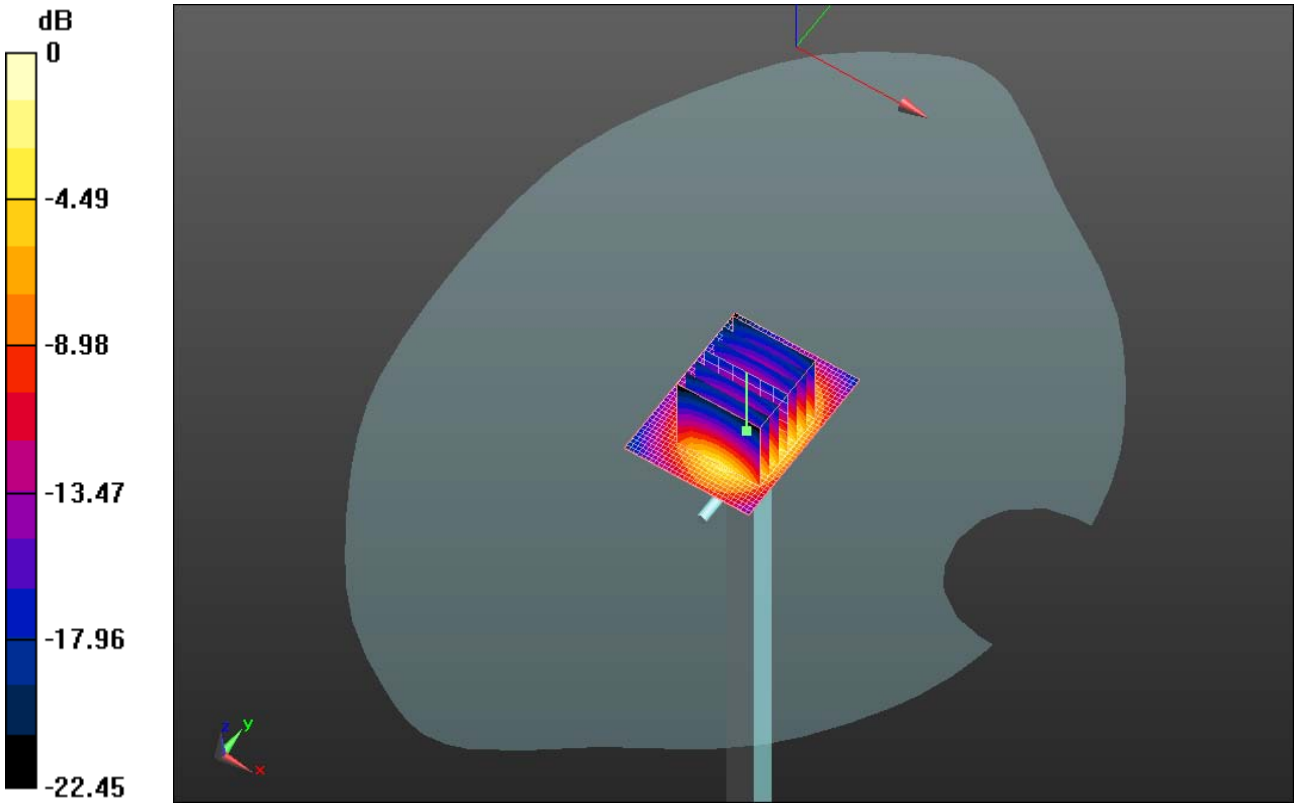
Communication System: CW; Communication System Band: Not Specified; Frequency: 2450 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 2450 MHz; σ = 1.886 mho/m; ε_r = 39.002; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
  - Modulation Compensation: Not calibrated
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x41x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 65.108 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 180.5 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 115.1 W/kg
SAR(1 g) = 56 mW/g; SAR(10 g) = 25.9 mW/g
Maximum value of SAR (measured) = 63.463 mW/g



0 dB = 63.460mW/g

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Test Laboratory: RIM Testing Services

DipoleValidation_1800MHz_Amb_Tem_23.4_Liq_Tem_22.2C_03_31_11

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

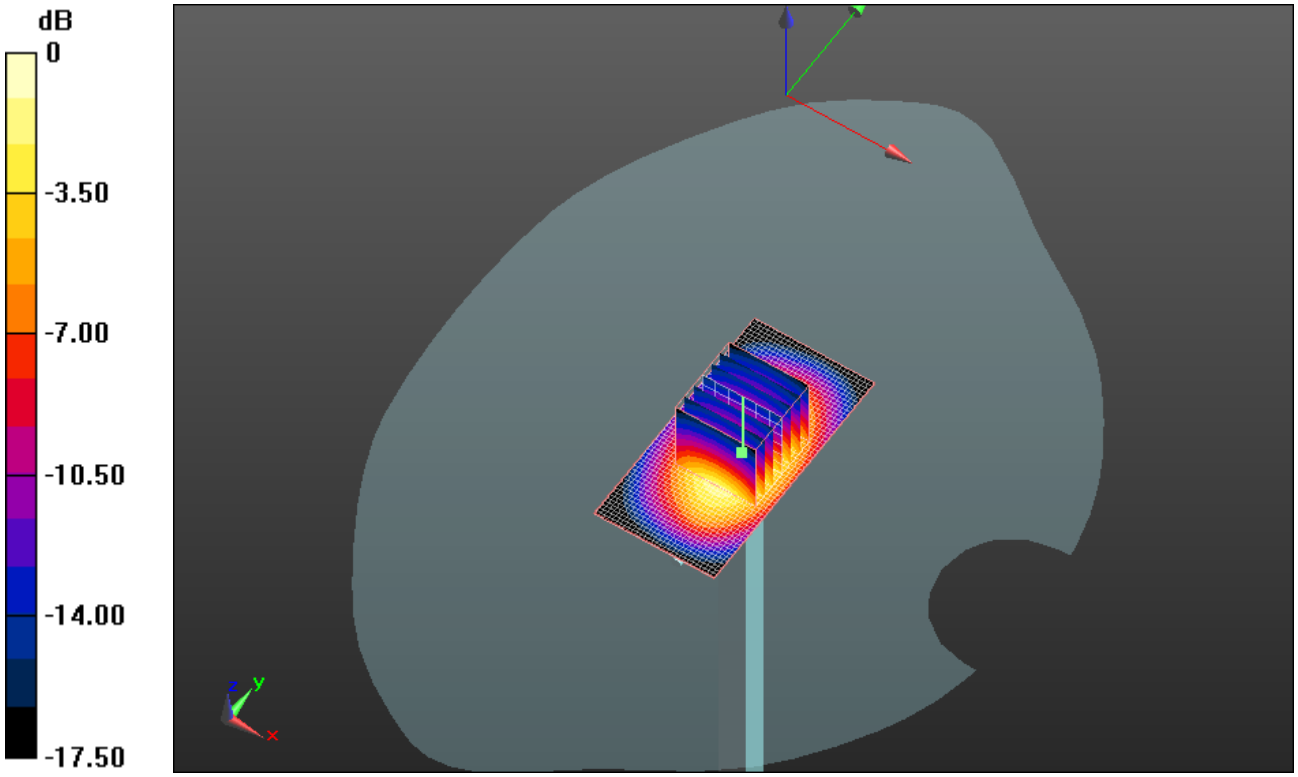
Communication System: CW; Communication System Band: Not Specified; Frequency: 1800 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1800 MHz; σ = 1.404 mho/m; ε_r = 38.293; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
  - Modulation Compensation: Not calibrated
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 41.229 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 173.7 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 67.706 W/kg
SAR(1 g) = 36.5 mW/g; SAR(10 g) = 19 mW/g
Maximum value of SAR (measured) = 40.851 mW/g



0 dB = 40.850mW/g

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Test Laboratory: RIM Testing Services

DipoleValidation_1800MHz_Amb_Tem_24.2_Liq_Tem_22.5C

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

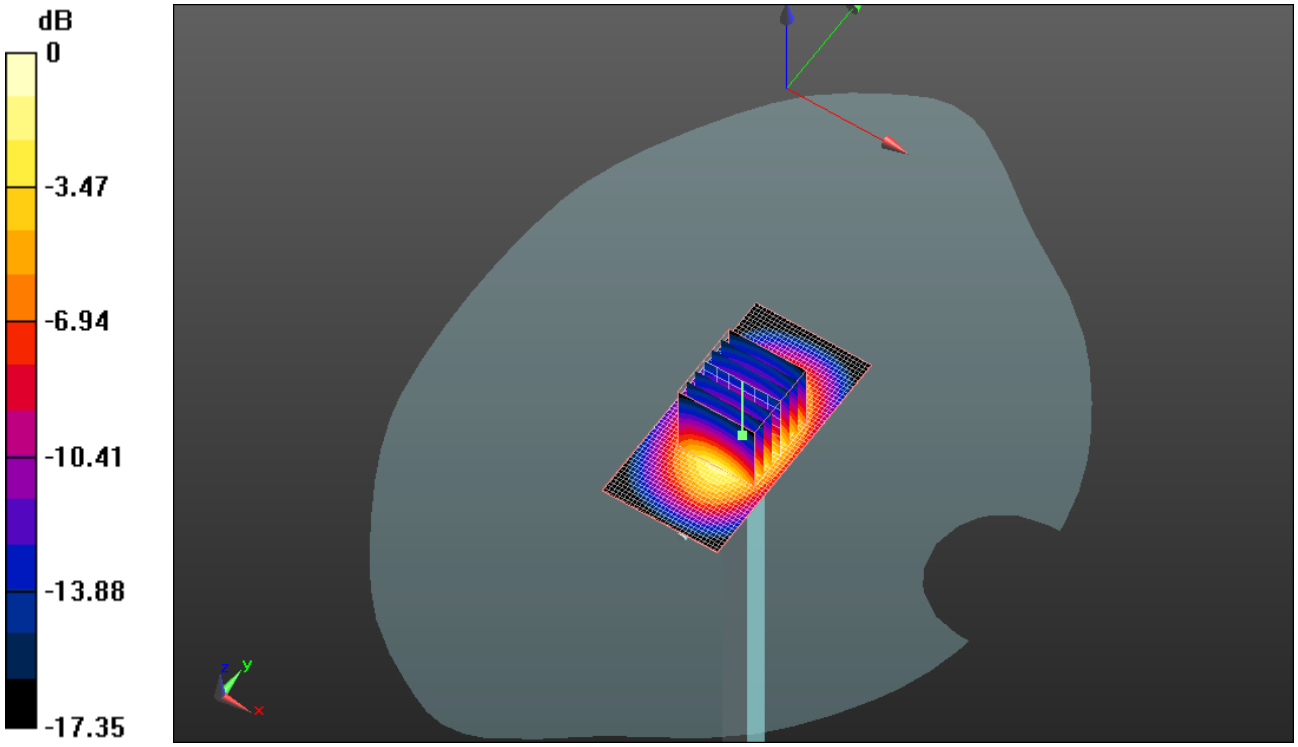
Communication System: CW; Communication System Band: Not Specified; Frequency: 1800 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1800 MHz; σ = 1.382 mho/m; ε_r = 38.11; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
  - Modulation Compensation: Not calibrated
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 41.635 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 176.0 V/m; Power Drift = 0.0026 dB
Peak SAR (extrapolated) = 68.469 W/kg
SAR(1 g) = 36.8 mW/g; SAR(10 g) = 19.2 mW/g
Maximum value of SAR (measured) = 41.499 mW/g



0 dB = 41.500mW/g