APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

Date/Time: 1/9/2012 1:07:59 PM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_01_09_12_Amb_Tem_24.0_Liq_Tem_22.4C

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

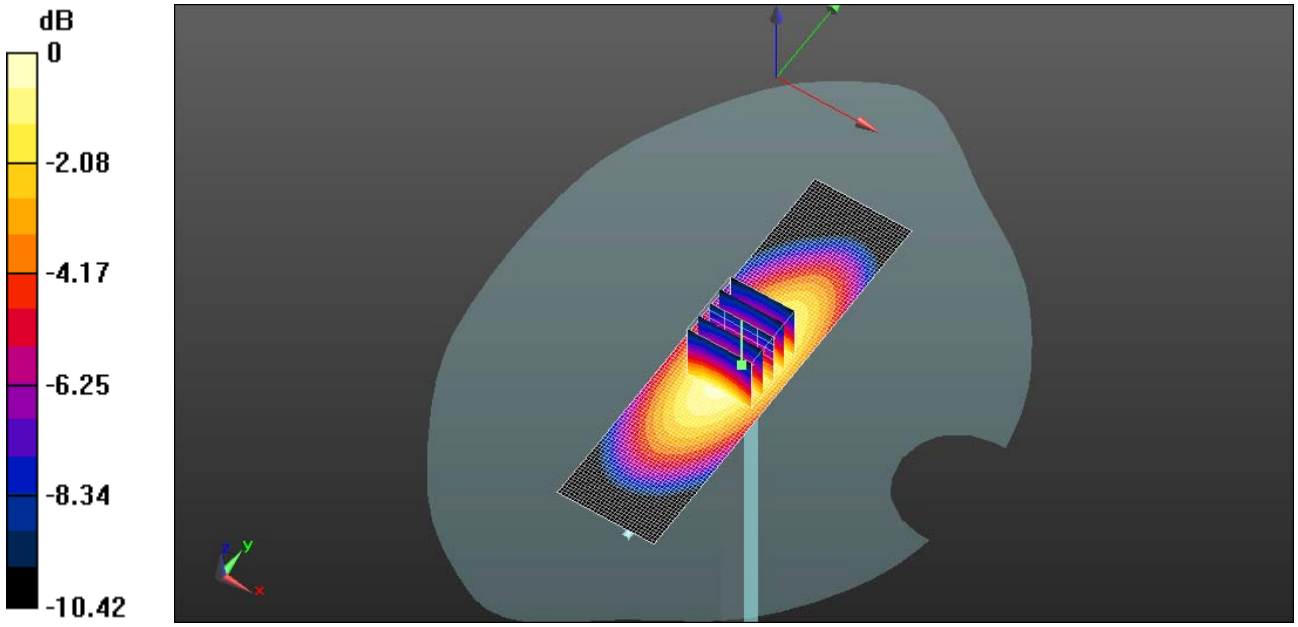
Communication System: CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.886 mho/m; ε_r = 41.722; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 9.829 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 110.8 V/m; Power Drift = -0.0045 dB
Peak SAR (extrapolated) = 13.0850
SAR(1 g) = 9.18 mW/g; SAR(10 g) = 6.05 mW/g
Maximum value of SAR (measured) = 9.938 mW/g



0 dB = 9.940mW/g = 19.95 dB mW/g

Date/Time: 1/12/2012 11:09:50 AM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_01_12_12_Amb_Tem_23.9_Liq_Tem_22.0C

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

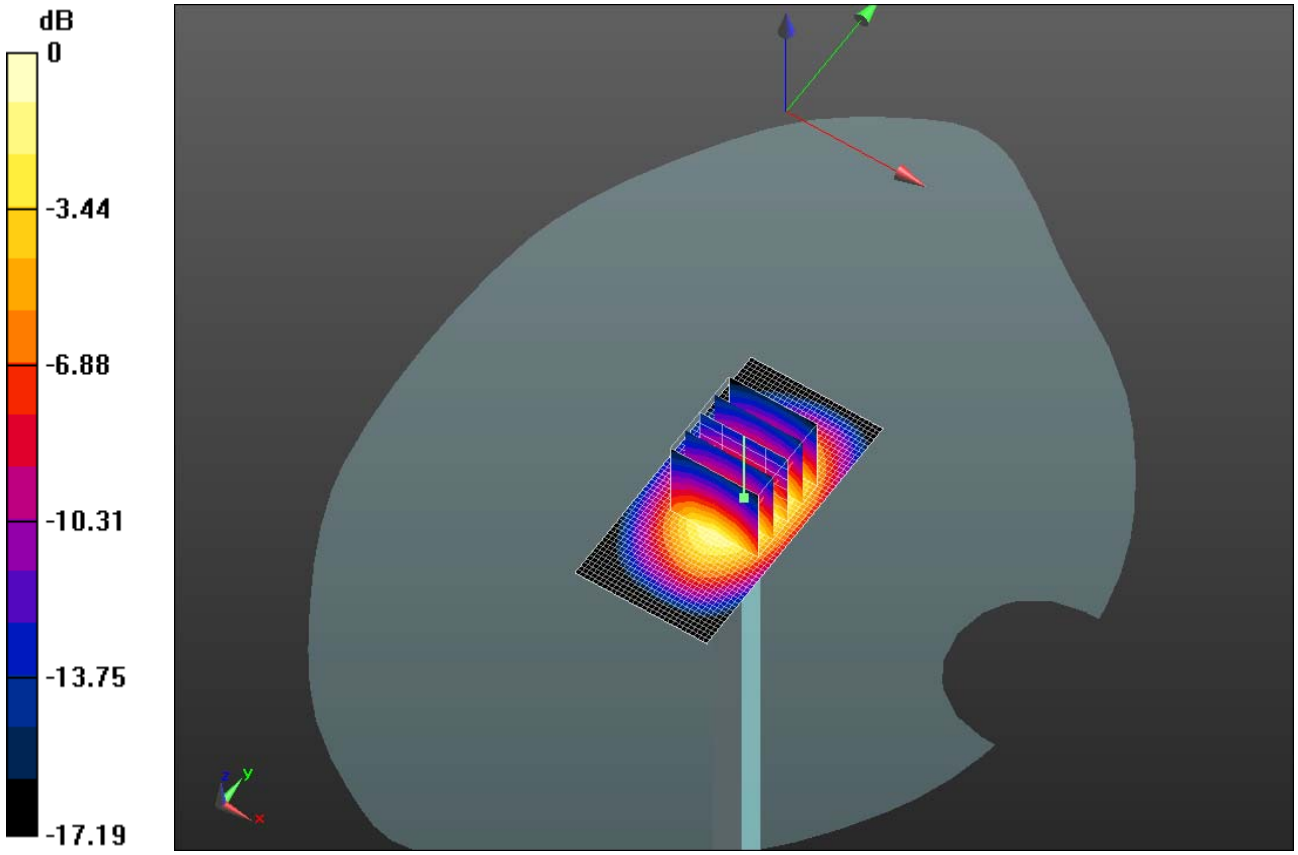
Communication System: CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.405 mho/m; ε_r = 40.689; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 42.956 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 181.3 V/m; Power Drift = -0.0031 dB
Peak SAR (extrapolated) = 64.6580
SAR(1 g) = 37.4 mW/g; SAR(10 g) = 19.8 mW/g
Maximum value of SAR (measured) = 42.035 mW/g



0 dB = 42.040mW/g = 32.47 dB mW/g

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

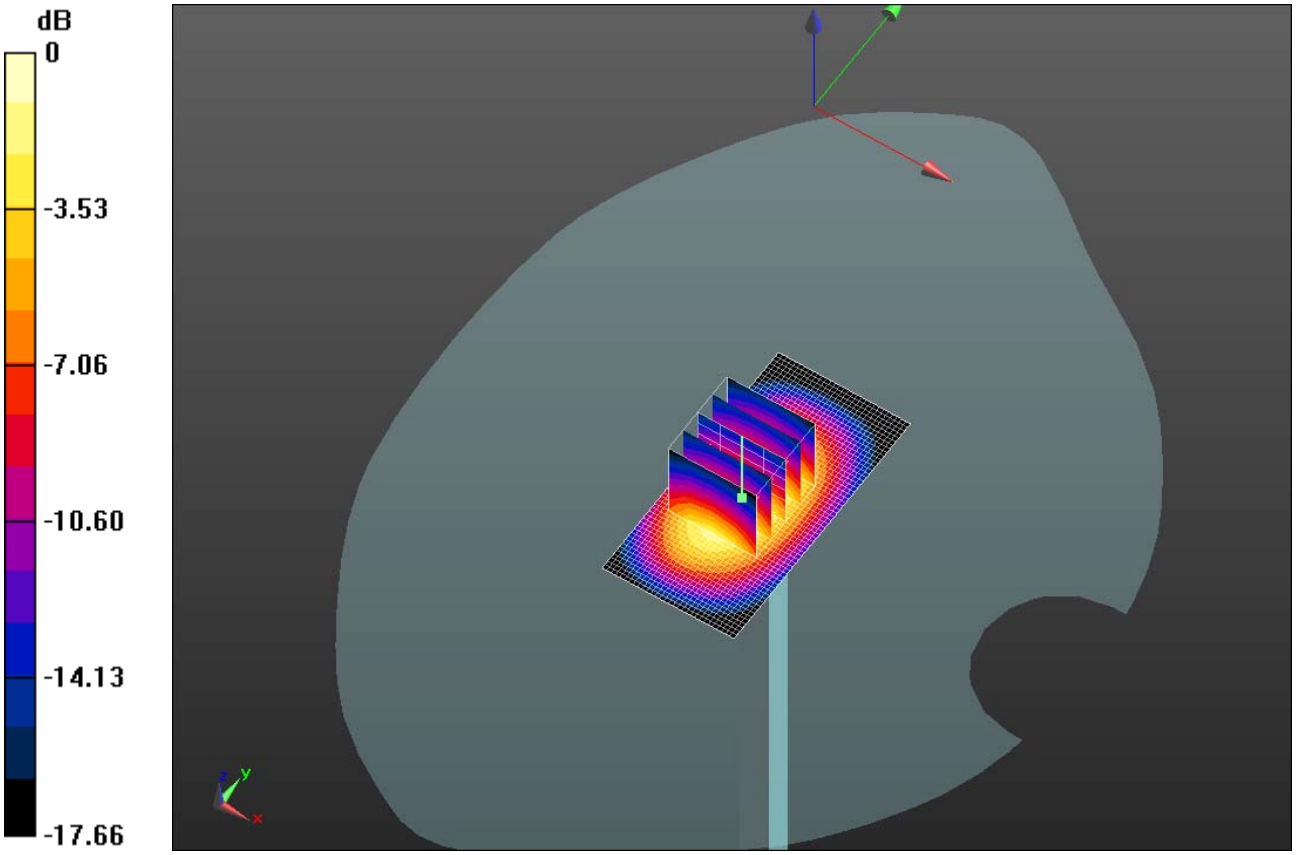
Communication System: CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.429 mho/m; ε_r = 39.982; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 43.826 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
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

Date/Time: 12/5/2011 9:30:12 PM, Date/Time: 12/5/2011 9:32:00 PM

Test Laboratory: RIM Testing Services

DipoleValidation_2450MHz_12_05_11_Amb_Tem_23.1_Liq_Tem_22.5C

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

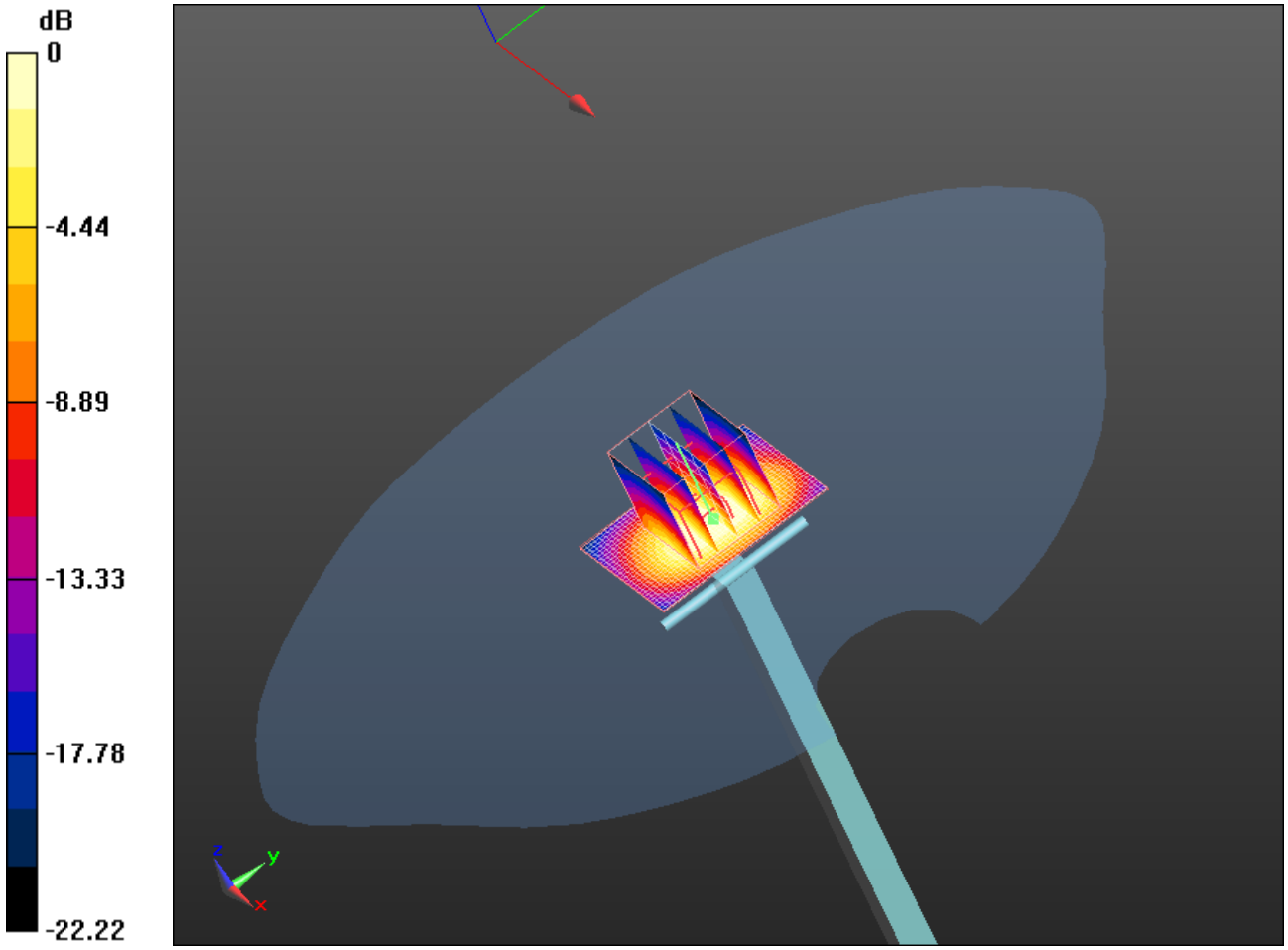
Communication System: CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.863 mho/m; ε_r = 38.583; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- 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=10mm, Pin=1000mW/Area Scan (31x41x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 72.011 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 202.8 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 116.4 W/kg
SAR(1 g) = 54.7 mW/g; SAR(10 g) = 25.2 mW/g
Maximum value of SAR (measured) = 61.877 mW/g



0 dB = 61.880mW/g

Date/Time: 12/7/2011 9:31:43 PM, Date/Time: 12/7/2011 9:35:41 PM

Test Laboratory: RIM Testing Services

DipoleValidation_2450MHz_12_07_11_Amb_Tem_23.5_Liq_Tem_22.0C

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

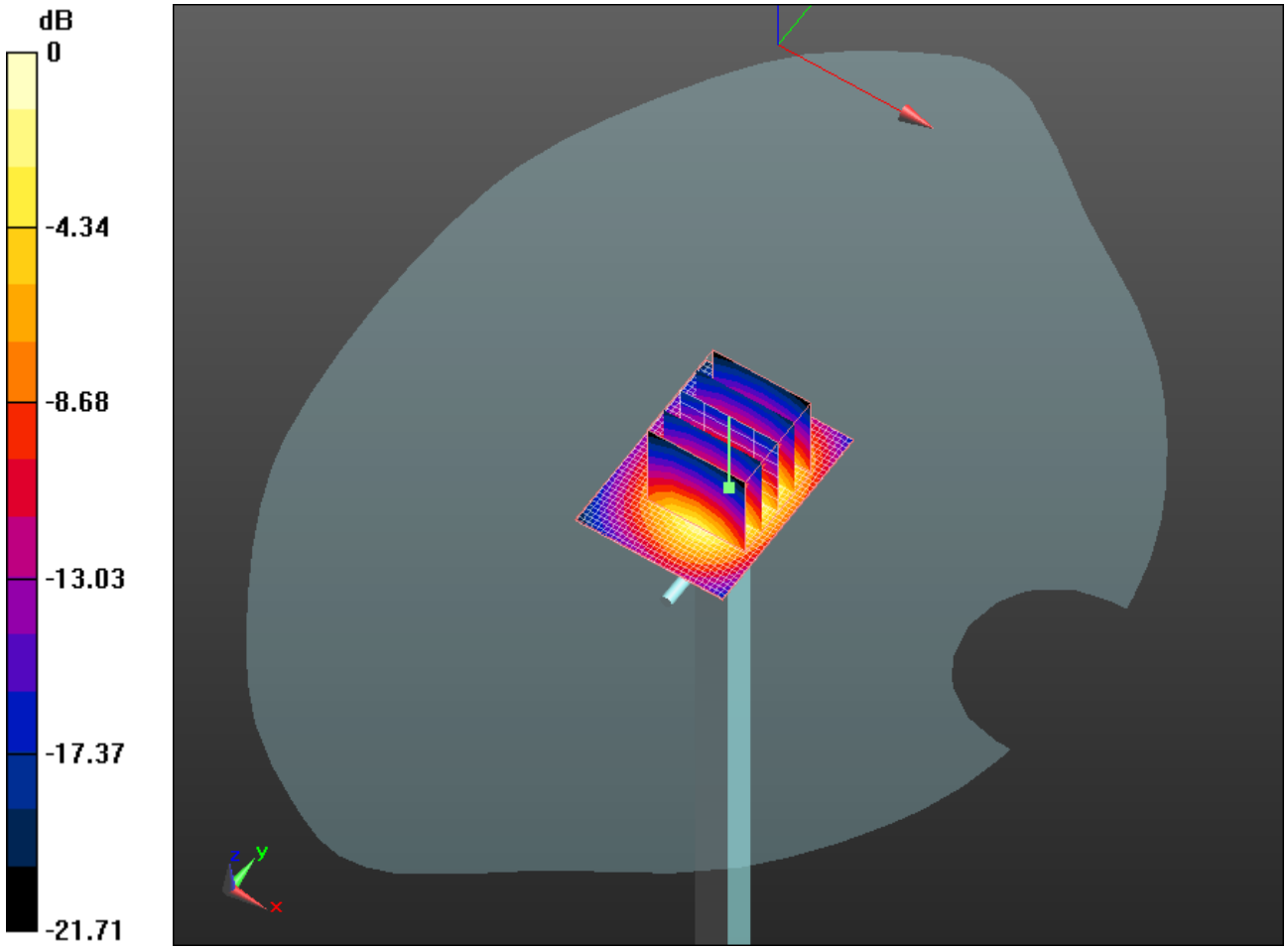
Communication System: CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.803 mho/m; ε_r = 37.718; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- 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=10mm, Pin=1000mW/Area Scan (31x41x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 70.139 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 203.4 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 111.8 W/kg
SAR(1 g) = 53.3 mW/g; SAR(10 g) = 24.6 mW/g
Maximum value of SAR (measured) = 60.711 mW/g



0 dB = 60.710mW/g

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

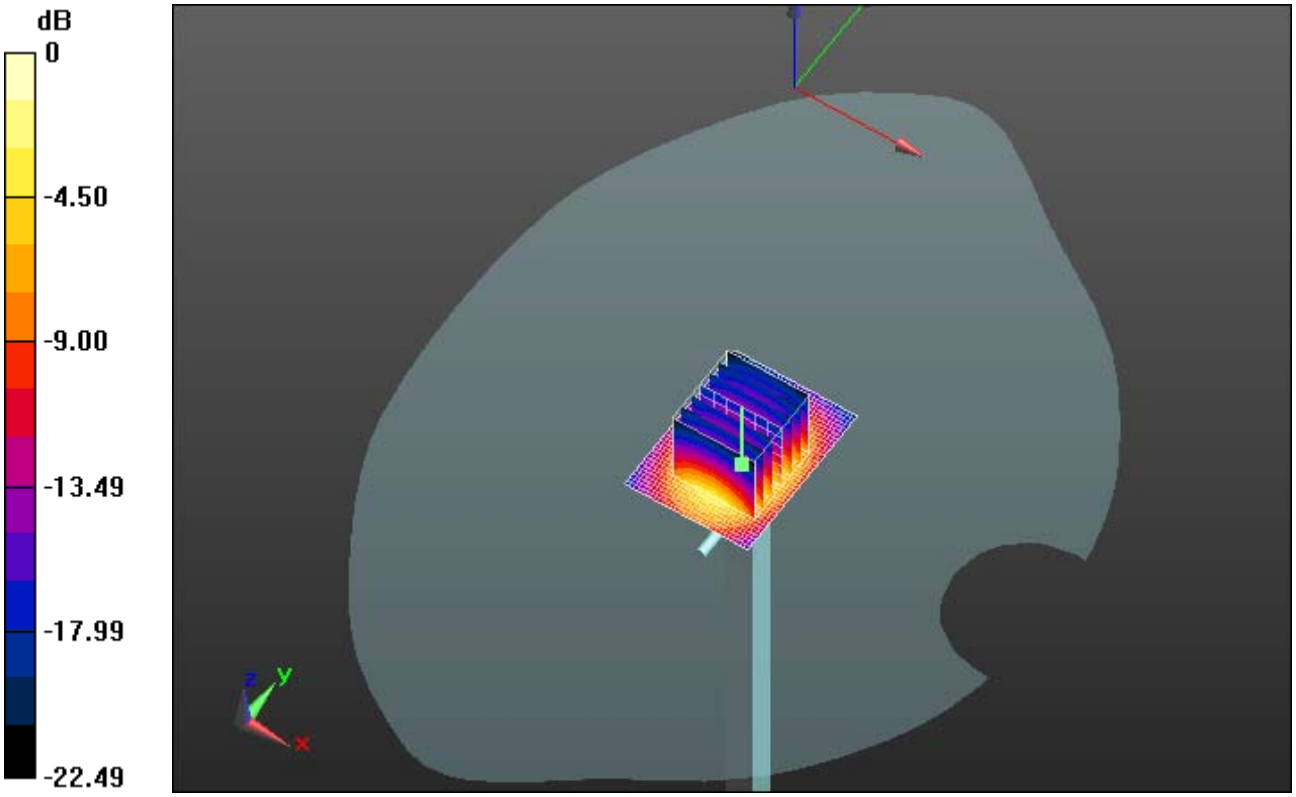
Communication System: CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.893 mho/m; ε_r = 40.721; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x41x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 68.877 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
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