Attachment 1 – System Validation Plots

Date/Time: 2008/10/30 10:26:24

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

System Validation (Head 900 MHz)

DUT: Dipole 900 MHz; Type: D900V2; Serial: 153

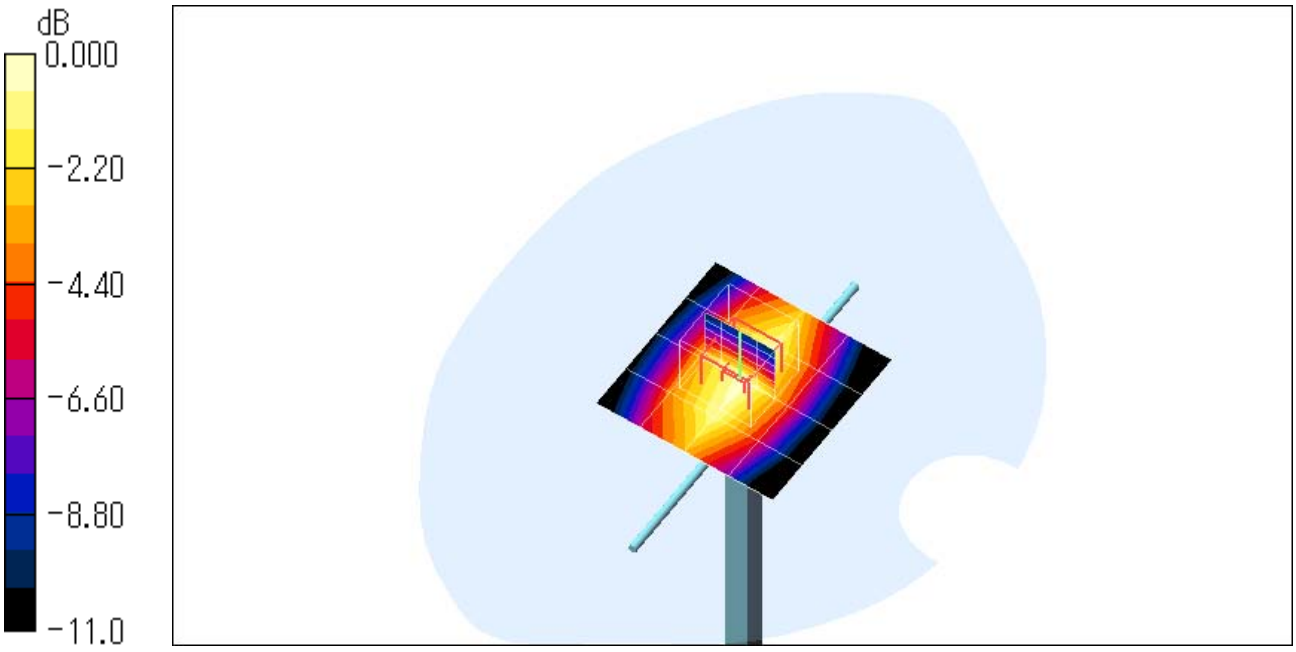
Communication System: CW; Frequency: 900 MHz;Duty Cycle: 1:1
Medium: HSL900 Medium parameters used: f = 900 MHz; σ = 0.953 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.69, 6.69, 6.69); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2008/03/06
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (measured) = 2.85 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.5 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 3.73 W/kg
SAR(1 g) = 2.66 mW/g; SAR(10 g) = 1.73 mW/g
Maximum value of SAR (measured) = 2.90 mW/g



0 dB = 2.90mW/g

Date/Time: 2008/10/31 10:09:03

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

System Validation (Body 900 MHz)

DUT: Dipole 900 MHz; Type: D900V2; Serial: 153

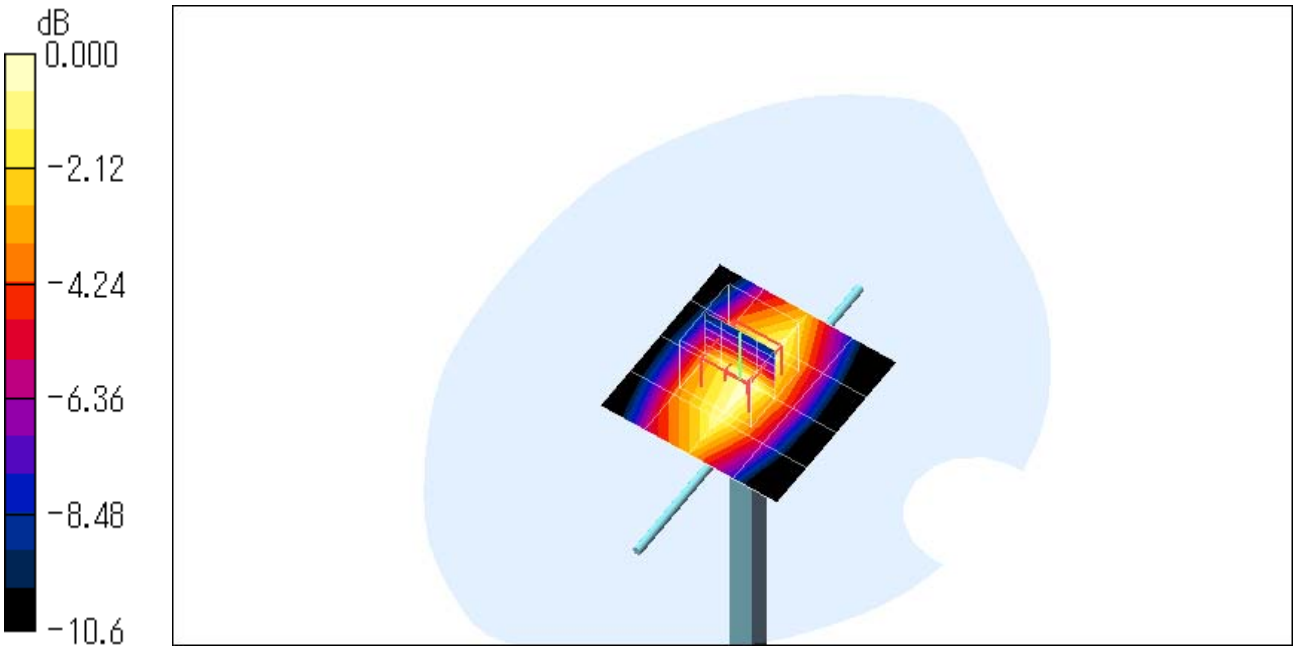
Communication System: CW; Frequency: 900 MHz;Duty Cycle: 1:1
Medium: M900 Medium parameters used: f = 900 MHz; σ = 1.01 mho/m; ε_r = 53.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.18, 6.18, 6.18); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2008/03/06
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (measured) = 2.92 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.9 V/m; Power Drift = 0.031 dB
Peak SAR (extrapolated) = 3.78 W/kg
SAR(1 g) = 2.76 mW/g; SAR(10 g) = 1.83 mW/g
Maximum value of SAR (measured) = 2.99 mW/g



0 dB = 2.99mW/g

Date/Time: 2008/10/29 10:02:48

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

System Validation (Head 1800 MHz)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d056

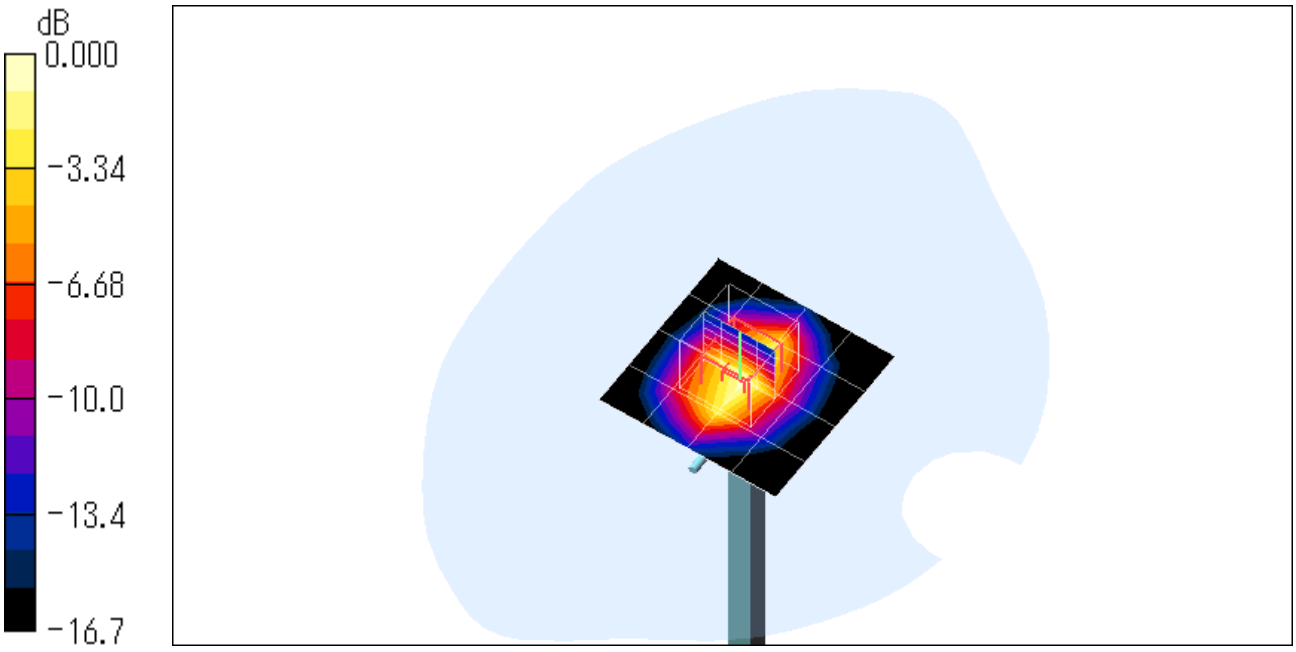
Communication System: CW; Frequency: 1800 MHz;Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used: f = 1800 MHz; σ = 1.36 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.36, 5.36, 5.36); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2008/03/06
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (measured) = 10.3 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 90.9 V/m; Power Drift = -0.043 dB
Peak SAR (extrapolated) = 16.4 W/kg
SAR(1 g) = 9.41 mW/g; SAR(10 g) = 5.03 mW/g
Maximum value of SAR (measured) = 10.6 mW/g



0 dB = 10.6mW/g

Date/Time: 2008/10/31 14:44:24

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

System Validation (Body 1800 MHz)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d056

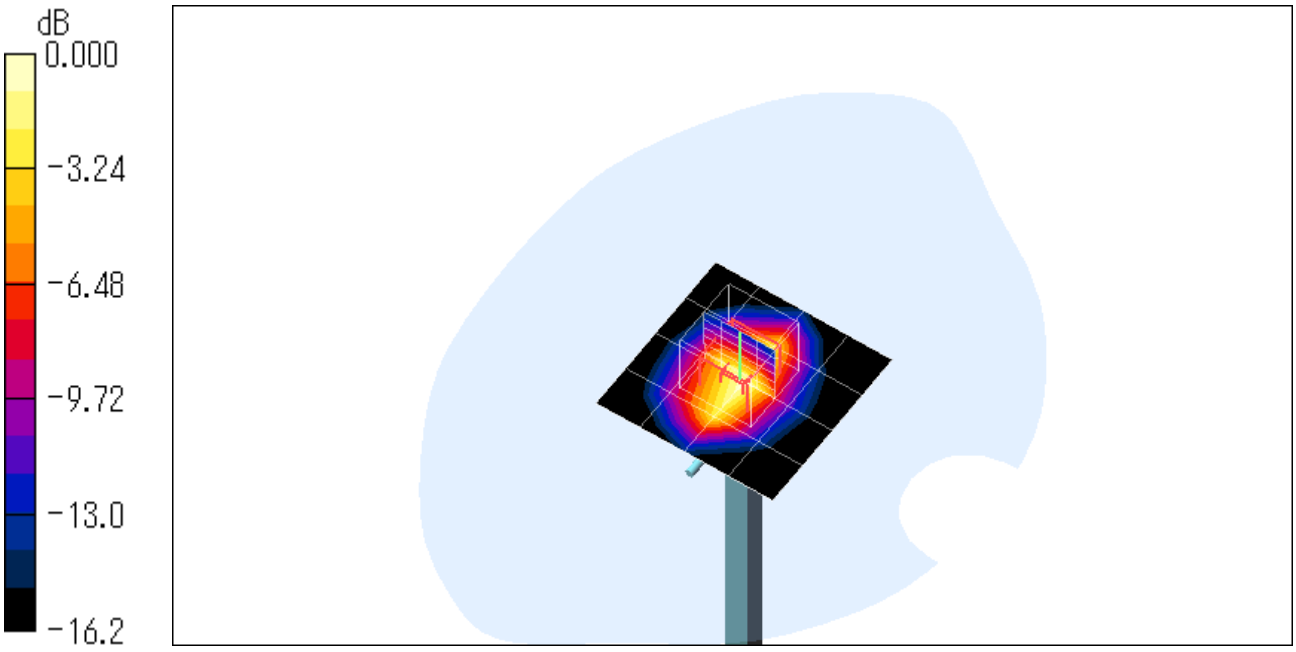
Communication System: CW; Frequency: 1800 MHz;Duty Cycle: 1:1
Medium: M1800 Medium parameters used: f = 1800 MHz; σ = 1.49 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.8, 4.8, 4.8); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2008/03/06
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (measured) = 10.1 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 88.2 V/m; Power Drift = -0.032 dB
Peak SAR (extrapolated) = 15.1 W/kg
SAR(1 g) = 9.23 mW/g; SAR(10 g) = 5.02 mW/g
Maximum value of SAR (measured) = 10.5 mW/g



0 dB = 10.5mW/g