

APPENDIX

Exhibit 1

System Validation Plots

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_HSL1800_040720.da4](#)

System Validation

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d038

Program: Validation

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL1800 ($\sigma = 1.386$ mho/m, $\epsilon_r = 38.26$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(5.15, 5.15, 5.15); Calibrated: 2004/02/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2004/02/06
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 91.9 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 10.5 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

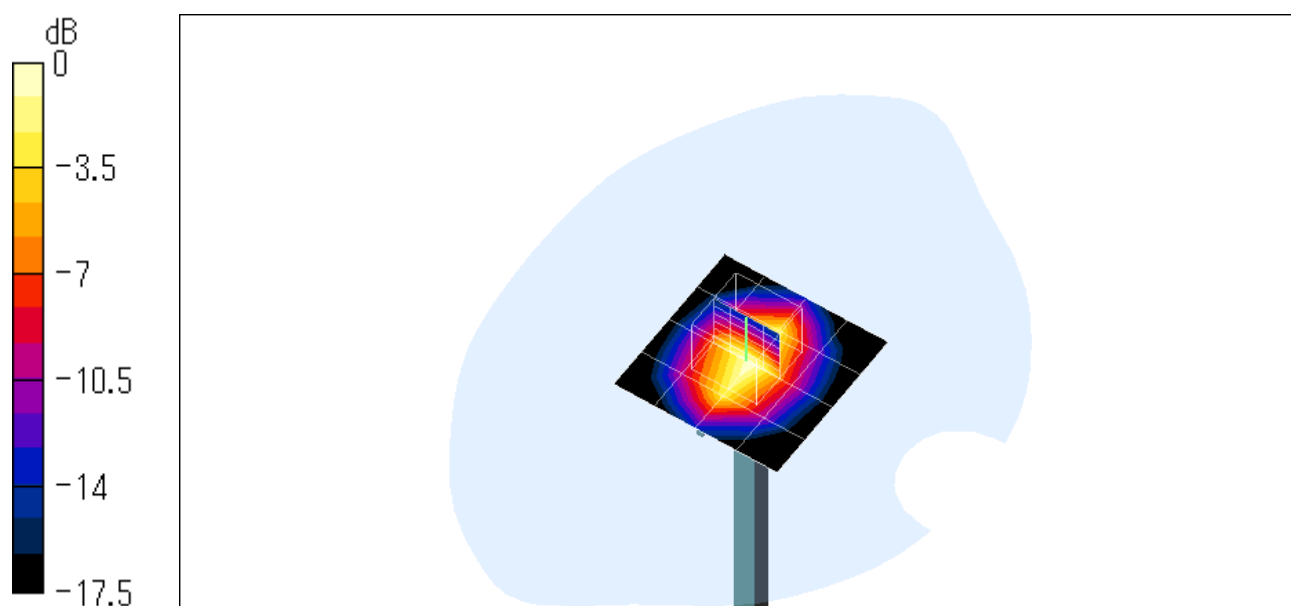
Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.44 mW/g; SAR(10 g) = 4.91 mW/g

Reference Value = 91.9 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 10.5 mW/g



0 dB = 10.5mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_HSL1800_040726.da4](#)

System Validation

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d038

Program: Validation

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL1800 ($\sigma = 1.36$ mho/m, $\epsilon_r = 38.53$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(5.15, 5.15, 5.15); Calibrated: 2004/02/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2004/02/06
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 94.4 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 10.8 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

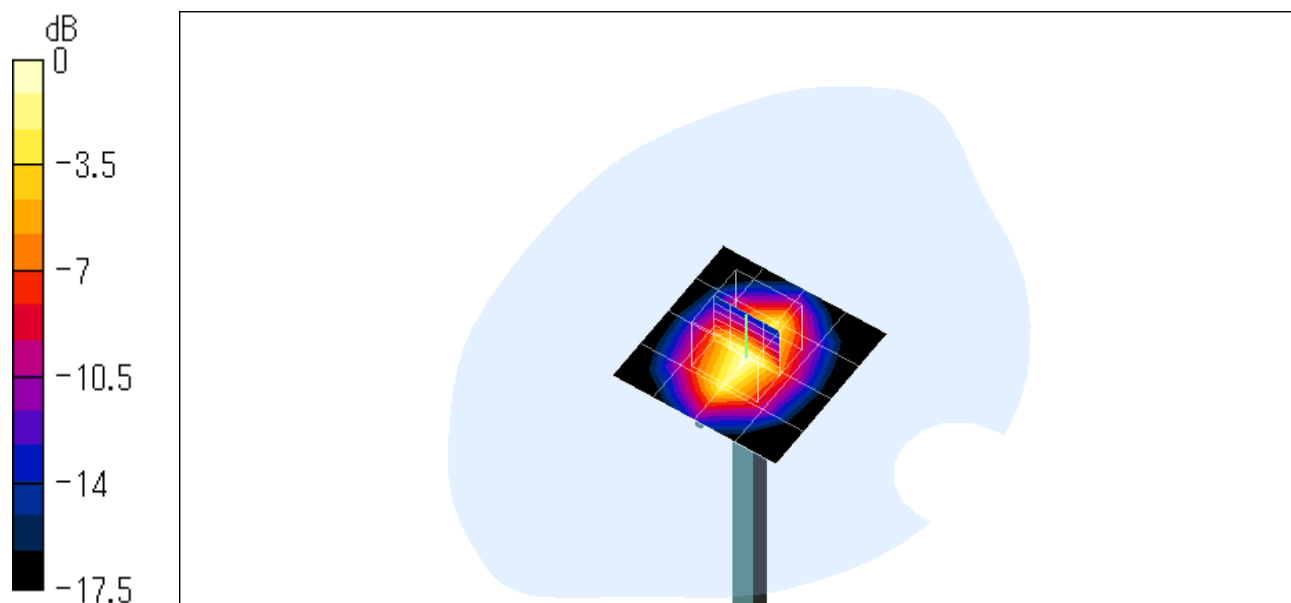
Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 9.63 mW/g; SAR(10 g) = 5.03 mW/g

Reference Value = 94.4 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 10.8 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_M1800_040727.da4](#)

System Validation

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d038

Program: Validation

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: M1800 ($\sigma = 1.489$ mho/m, $\epsilon_r = 54.09$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(4.65, 4.65, 4.65); Calibrated: 2004/02/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2004/02/06
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 90.4 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 10.7 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

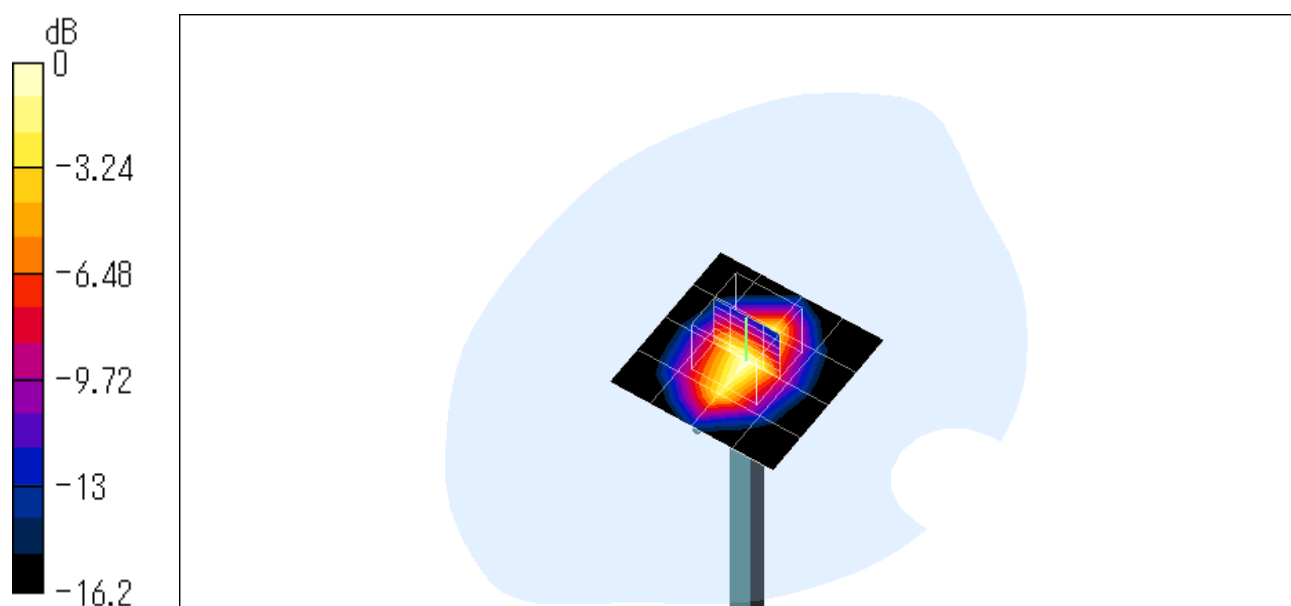
Peak SAR (extrapolated) = 15.4 W/kg

SAR(1 g) = 9.48 mW/g; SAR(10 g) = 5.12 mW/g

Reference Value = 90.4 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 10.6 mW/g



0 dB = 10.6mW/g