## Appendix 1 – System Performance Check Plots

Date: 3/19/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1012

Frequency: 1750 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.359 S/m; $\varepsilon_r$ = 39.15; $\rho$ = 1000 kg/m$^3$

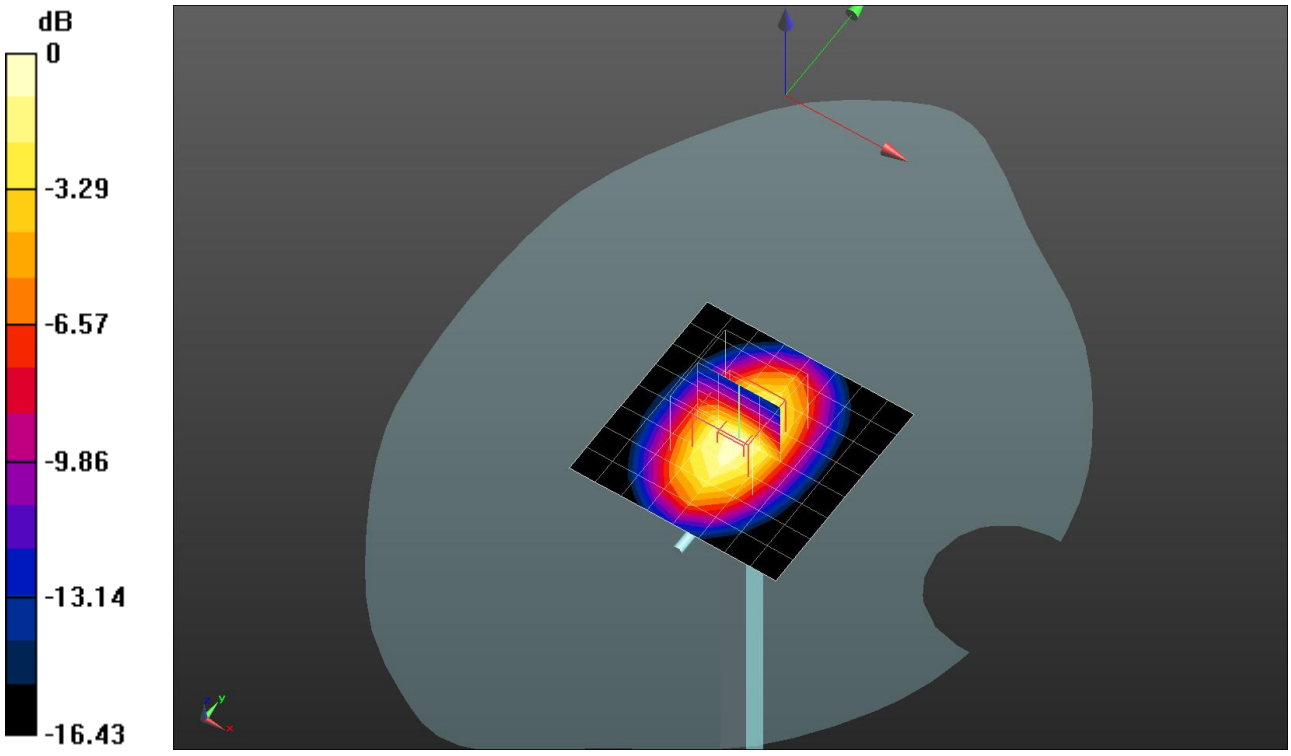
DASY5 Configuration:
- Probe: ET3DV6 - SN1679; ConvF(5.29, 5.29, 5.29); Calibrated: 8/12/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.99 W/kg

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

Reference Value = 89.67 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 14.7 W/kg
**SAR(1 g) = 8.9 W/kg; SAR(10 g) = 4.83 W/kg**
Maximum value of SAR (measured) = 10.1 W/kg




0 dB = 10.1 W/kg = 10.04 dBW/kg

Date: 3/20/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1012

Frequency: 1750 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.486 S/m; $\varepsilon_r$ = 52.862; $\rho$ = 1000 kg/m$^3$

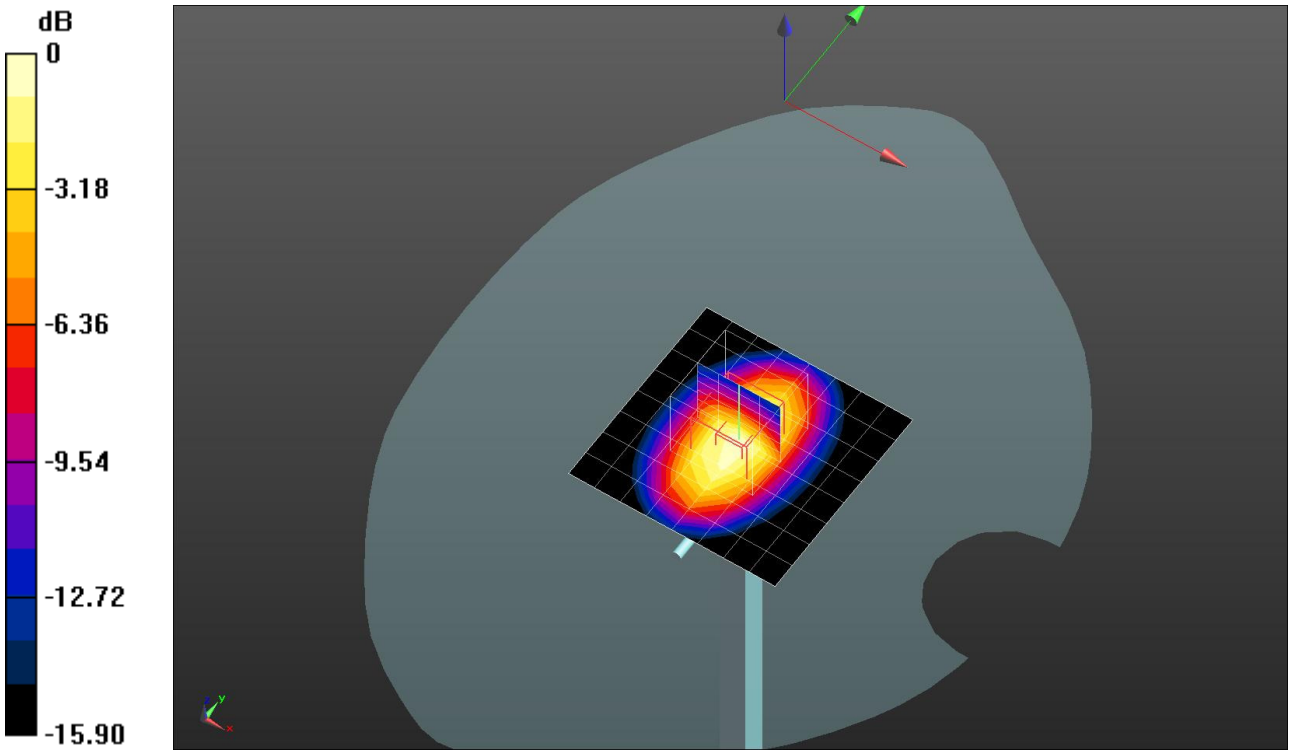
DASY5 Configuration:
- Probe: ET3DV6 - SN1679; ConvF(4.79, 4.79, 4.79); Calibrated: 8/12/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.88 W/kg

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

Reference Value = 88.58 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 13.6 W/kg
**SAR(1 g) = 8.92 W/kg; SAR(10 g) = 4.94 W/kg**
Maximum value of SAR (measured) = 10.1 W/kg




0 dB = 10.1 W/kg = 10.04 dBW/kg

Date: 3/28/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d112

Frequency: 1900 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.572 S/m; $\varepsilon_r$ = 52.706; $\rho$ = 1000 kg/m$^3$

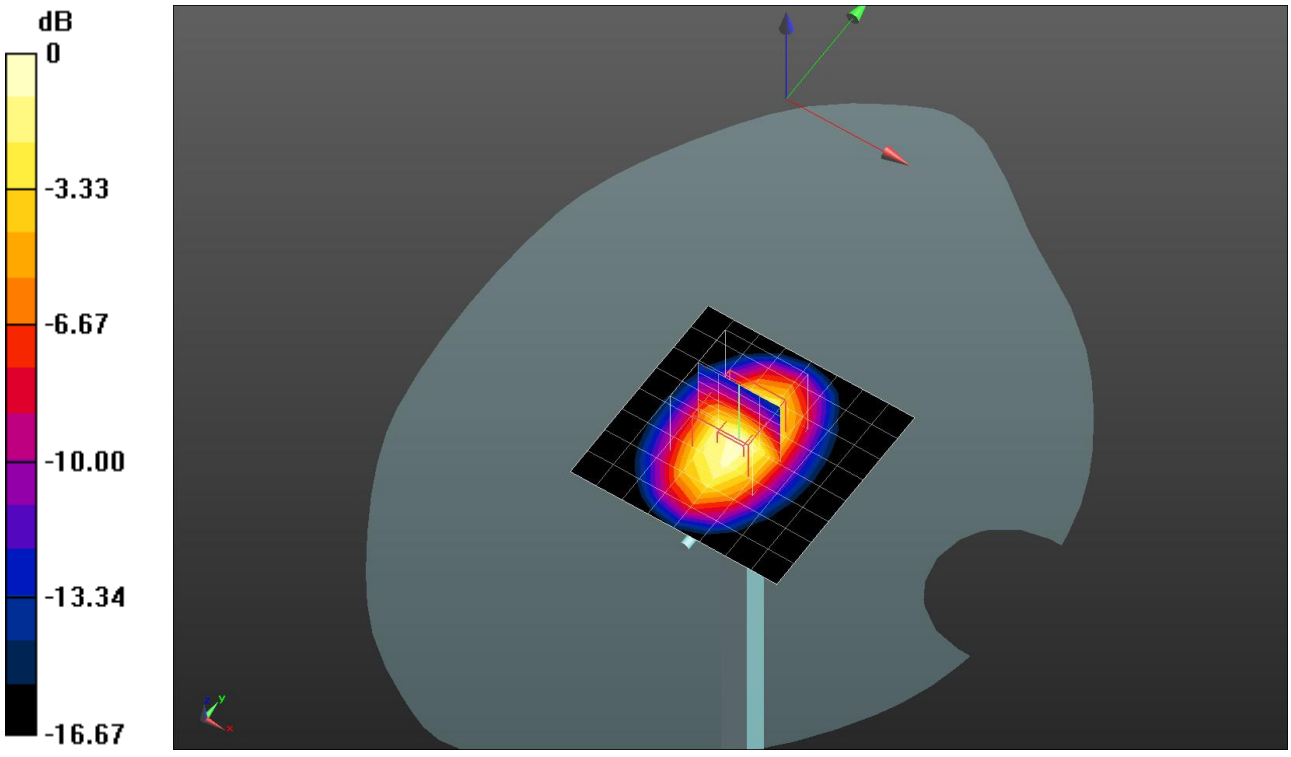
DASY5 Configuration:
- Probe: ET3DV6 - SN1679; ConvF(4.6, 4.6, 4.6); Calibrated: 8/12/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.9 W/kg

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

Reference Value = 89.41 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 16.1 W/kg
**SAR(1 g) = 9.99 W/kg; SAR(10 g) = 5.38 W/kg**
Maximum value of SAR (measured) = 11.3 W/kg




0 dB = 11.3 W/kg = 10.53 dBW/kg

Date: 3/29/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d112

Frequency: 1900 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.567 S/m; $\varepsilon_r$ = 52.865; $\rho$ = 1000 kg/m$^3$

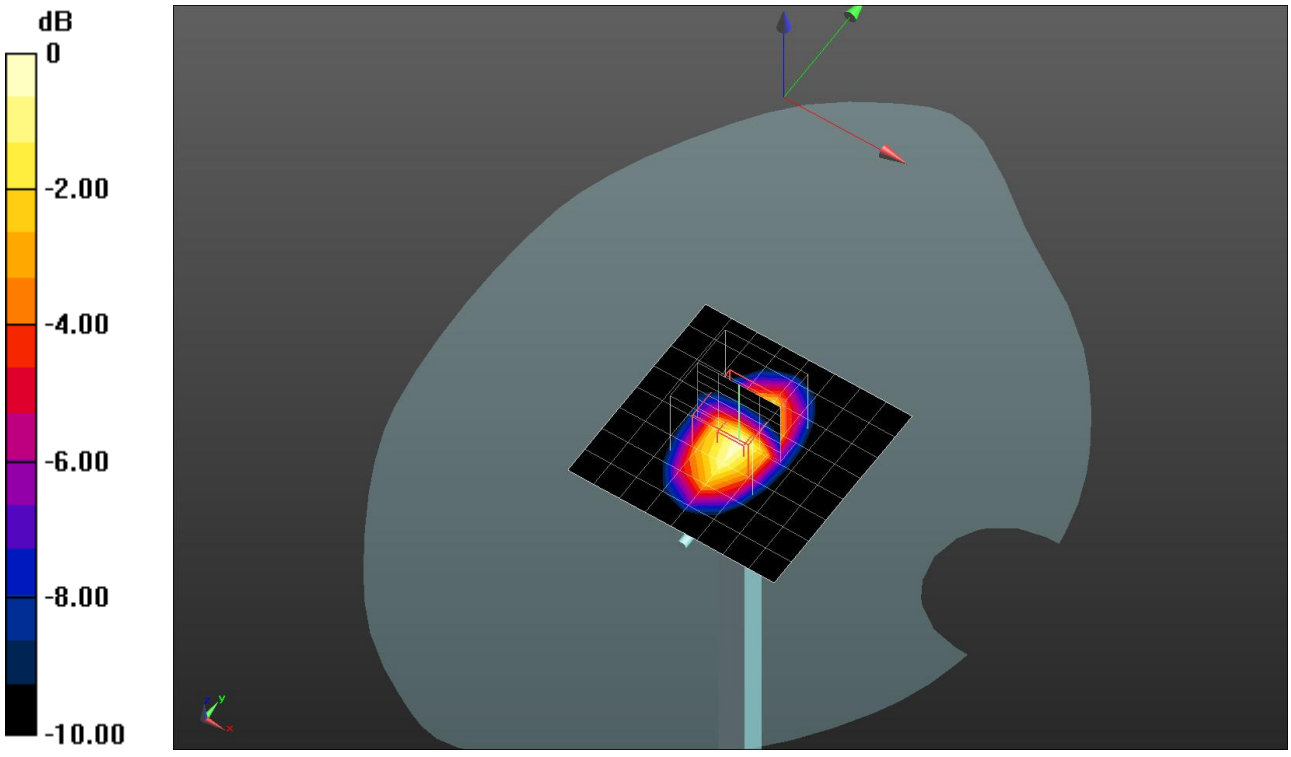
DASY5 Configuration:
- Probe: ET3DV6 - SN1679; ConvF(4.6, 4.6, 4.6); Calibrated: 8/12/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.2 W/kg

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

Reference Value = 90.60 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 16.0 W/kg
**SAR(1 g) = 9.96 W/kg; SAR(10 g) = 5.37 W/kg**
Maximum value of SAR (measured) = 11.3 W/kg




0 dB = 11.3 W/kg = 10.53 dBW/kg

Date: 3/29/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d112

Frequency: 1900 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.415 S/m; $\varepsilon_r$ = 39.765; $\rho$ = 1000 kg/m$^3$

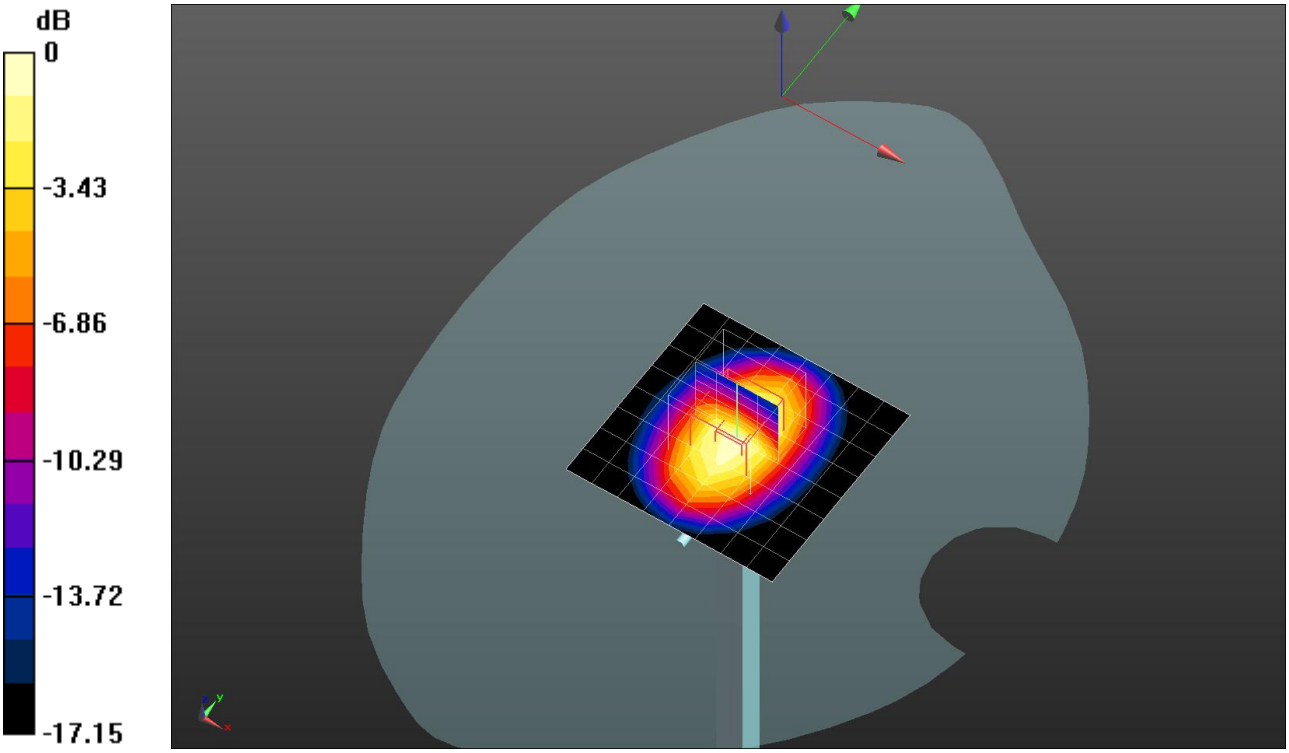
DASY5 Configuration:
- Probe: ET3DV6 - SN1679; ConvF(5.08, 5.08, 5.08); Calibrated: 8/12/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.7 W/kg

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

Reference Value = 91.03 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 16.1 W/kg
**SAR(1 g) = 9.52 W/kg; SAR(10 g) = 5.07 W/kg**




0 dB = 10.7 W/kg = 10.29 dBW/kg

Date: 3/30/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d112

Frequency: 1900 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.398 S/m; $\varepsilon_r$ = 39.492; $\rho$ = 1000 kg/m$^3$

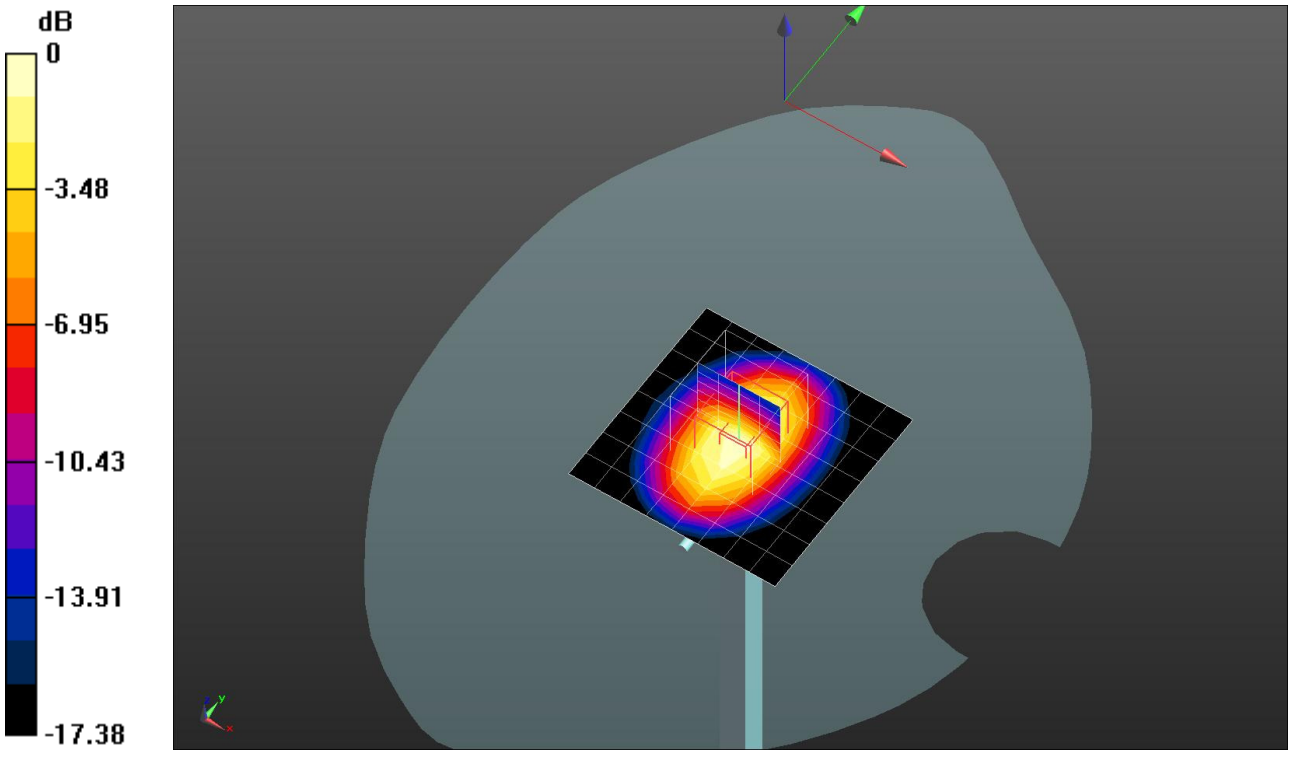
DASY5 Configuration:
- Probe: ET3DV6 - SN1679; ConvF(5.08, 5.08, 5.08); Calibrated: 8/12/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.4 W/kg

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

Reference Value = 89.98 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 16.1 W/kg
**SAR(1 g) = 9.48 W/kg; SAR(10 g) = 5.04 W/kg**
Maximum value of SAR (measured) = 10.6 W/kg




0 dB = 10.6 W/kg = 10.25 dBW/kg

Date: 3/30/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d081

Frequency: 835 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 835 MHz; $\sigma$ = 1.003 S/m; $\varepsilon_r$ = 54.978; $\rho$ = 1000 kg/m$^3$

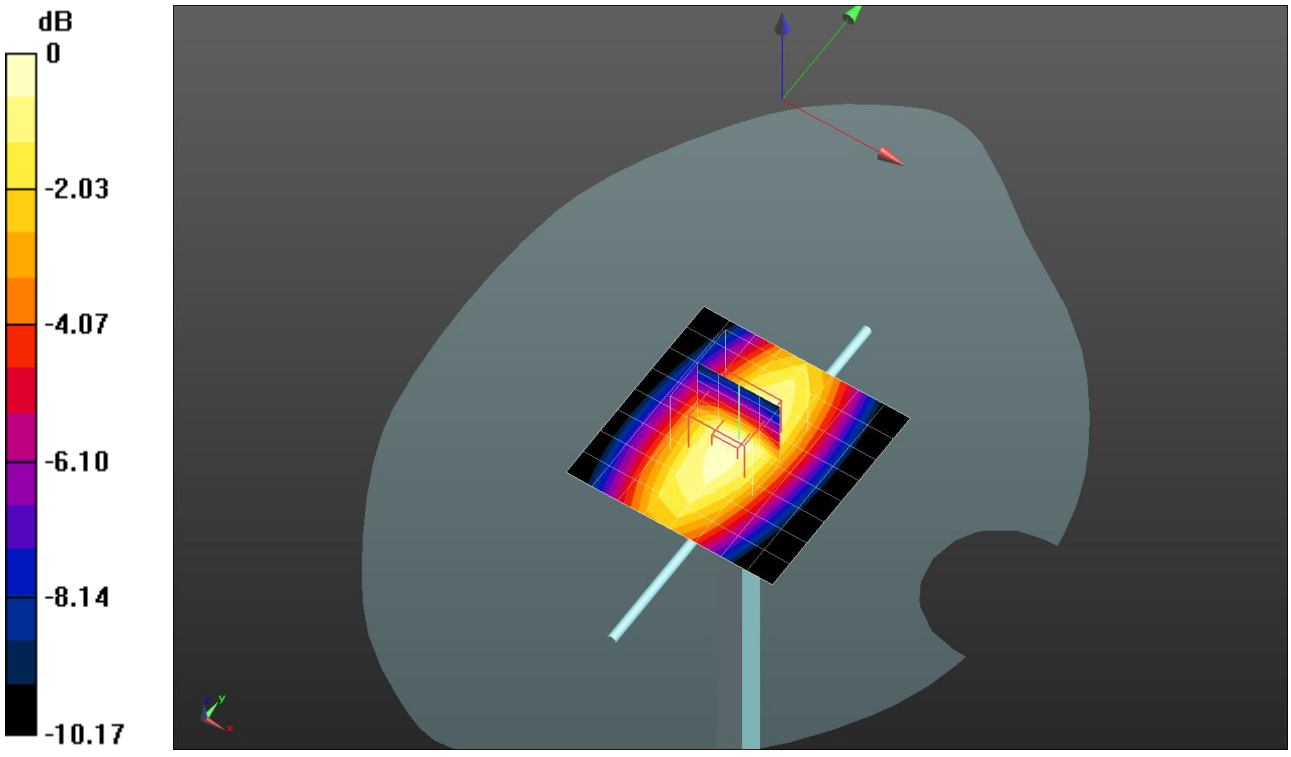
DASY5 Configuration:
- Probe: ET3DV6 - SN1679; ConvF(6.33, 6.33, 6.33); Calibrated: 8/12/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.65 W/kg

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

Reference Value = 53.30 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.47 W/kg
**SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.63 W/kg**
Maximum value of SAR (measured) = 2.67 W/kg




0 dB = 2.67 W/kg = 4.27 dBW/kg

Date: 3/31/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d081

Frequency: 835 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 835 MHz; $\sigma$ = 0.921 S/m; $\varepsilon_r$ = 41.638; $\rho$ = 1000 kg/m$^3$

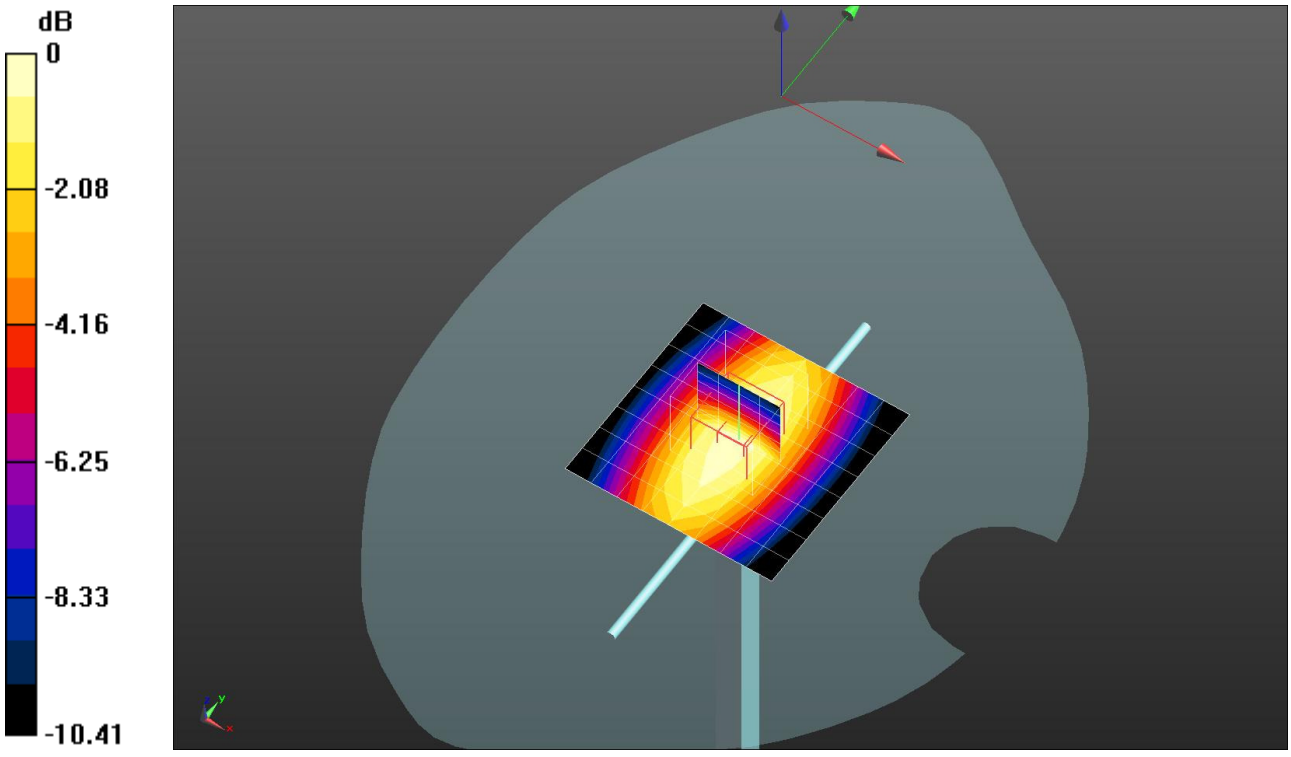
DASY5 Configuration:
- Probe: ET3DV6 - SN1679; ConvF(6.4, 6.4, 6.4); Calibrated: 8/12/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.63 W/kg

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

Reference Value = 55.34 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.49 W/kg
**SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.59 W/kg**
Maximum value of SAR (measured) = 2.62 W/kg




0 dB = 2.62 W/kg = 4.18 dBW/kg

Date: 3/31/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 714

Frequency: 2450 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 2450 MHz; $\sigma$ = 2.022 S/m; $\varepsilon_r$ = 52.048; $\rho$ = 1000 kg/m$^3$

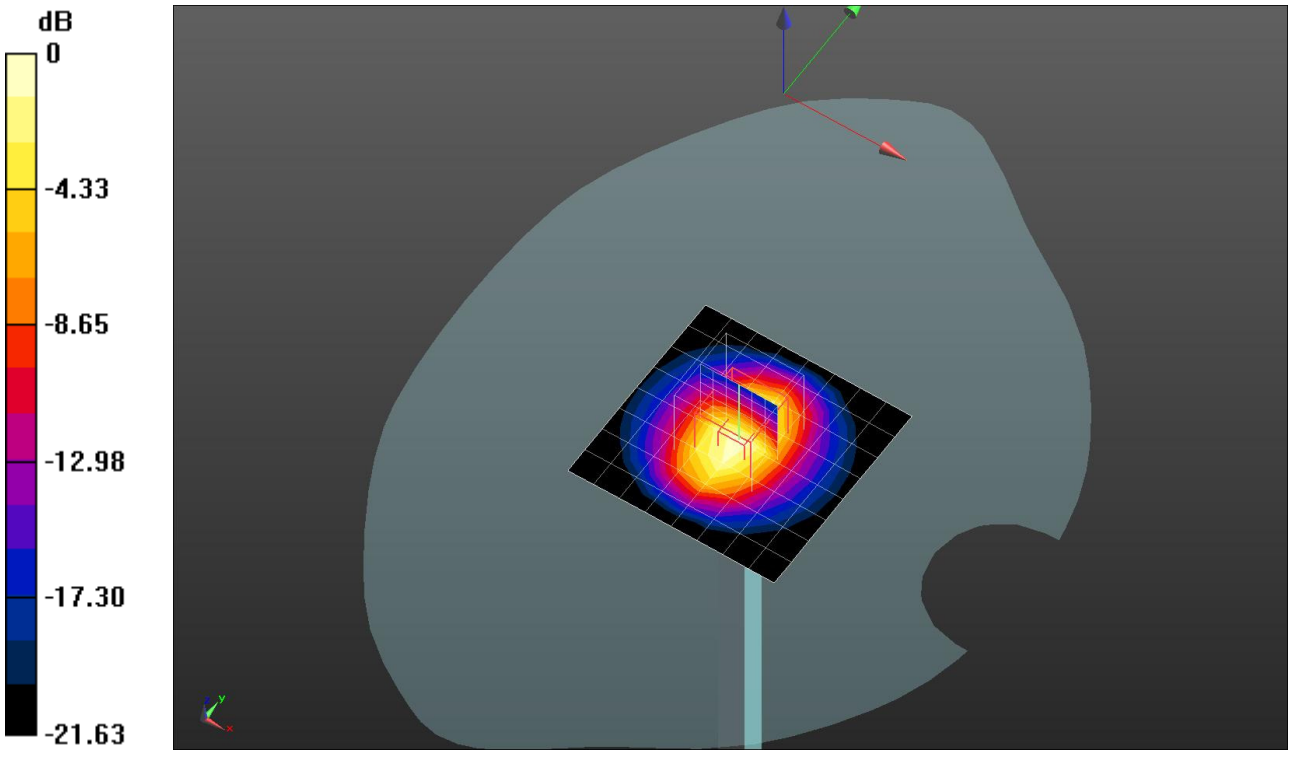
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(7.09, 7.09, 7.09); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 18.5 W/kg

## Dipole/Input 250 mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.83 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 25.2 W/kg
**SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.78 W/kg**
Maximum value of SAR (measured) = 18.9 W/kg




0 dB = 18.9 W/kg = 12.76 dBW/kg

Date: 4/1/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 714

Frequency: 2450 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.933 S/m; $\varepsilon_r$ = 51.825; $\rho$ = 1000 kg/m$^3$

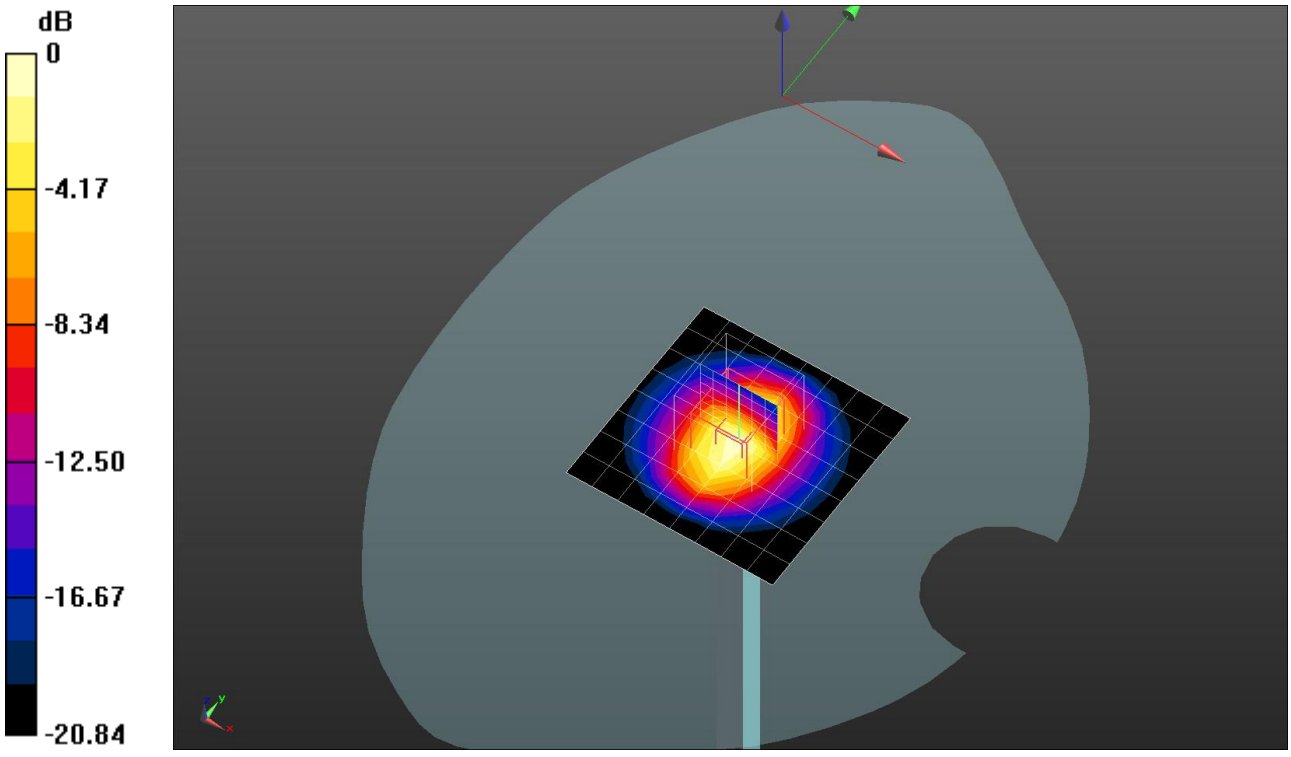
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(7.09, 7.09, 7.09); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 18.0 W/kg

## Dipole/Input 250 mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.24 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 23.9 W/kg
**SAR(1 g) = 12 W/kg; SAR(10 g) = 5.7 W/kg**
Maximum value of SAR (measured) = 18.2 W/kg




0 dB = 18.2 W/kg = 12.60 dBW/kg

Date: 4/4/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 714

Frequency: 2450 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.846 S/m; $\varepsilon_r$ = 38.073; $\rho$ = 1000 kg/m$^3$

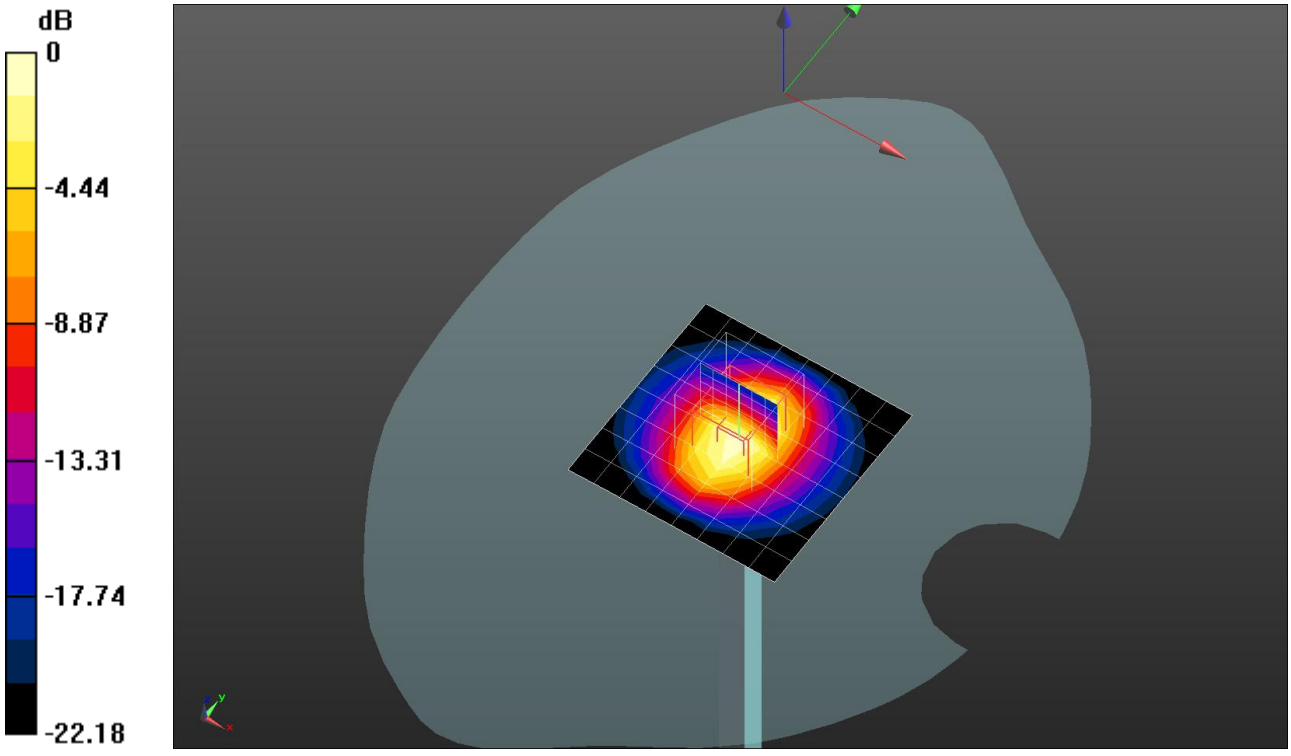
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(7, 7, 7); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 250 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 20.1 W/kg

## Dipole/Input 250 mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.5 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 27.5 W/kg
**SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.13 W/kg**
Maximum value of SAR (measured) = 20.5 W/kg




0 dB = 20.5 W/kg = 13.12 dBW/kg

Date: 4/5/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1111

Frequency: 5250 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 5250 MHz; $\sigma$ = 5.435 S/m; $\varepsilon_r$ = 47.854; $\rho$ = 1000 kg/m$^3$

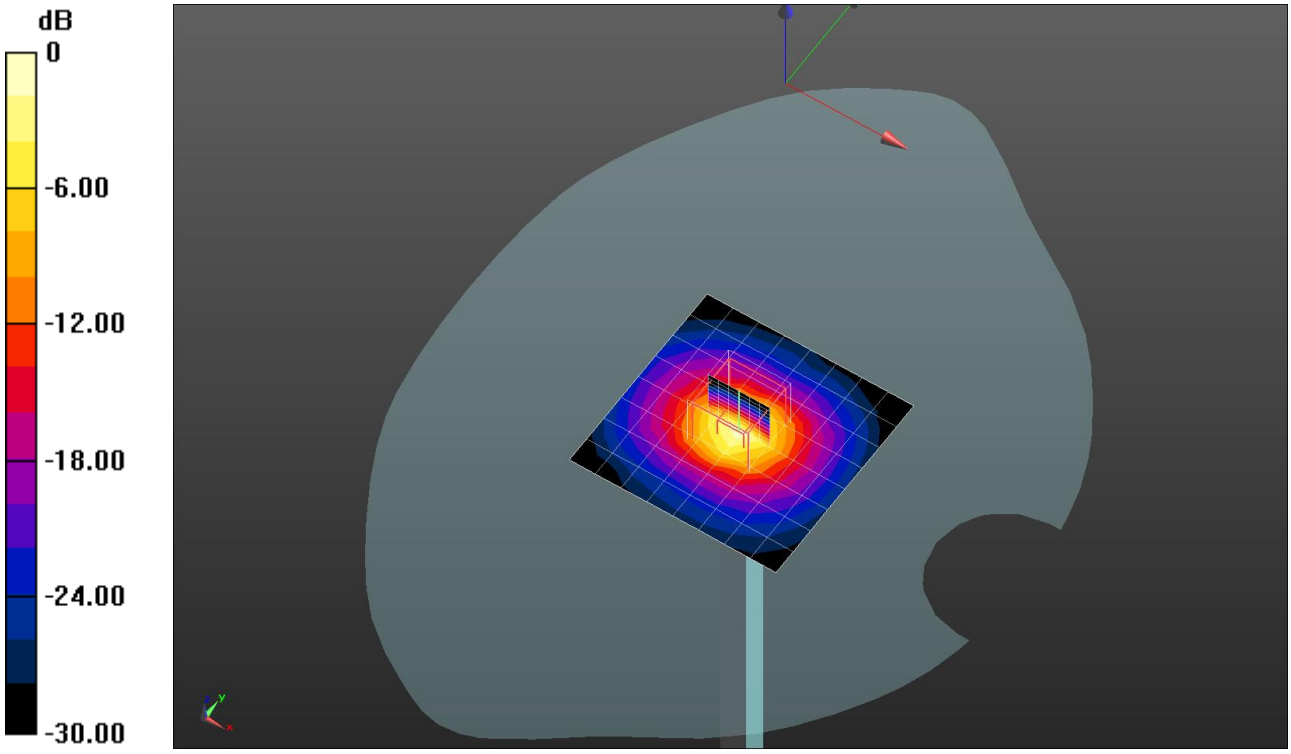
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(4.34, 4.34, 4.34); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 100 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 14.5 W/kg

## Dipole/Input 100 mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.01 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 30.0 W/kg
**SAR(1 g) = 7.17 W/kg; SAR(10 g) = 2.02 W/kg**
Maximum value of SAR (measured) = 15.4 W/kg




0 dB = 15.4 W/kg = 11.88 dBW/kg

Date: 4/5/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1111

Frequency: 5600 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 5600 MHz; $\sigma$ = 5.886 S/m; $\varepsilon_r$ = 47.259; $\rho$ = 1000 kg/m$^3$

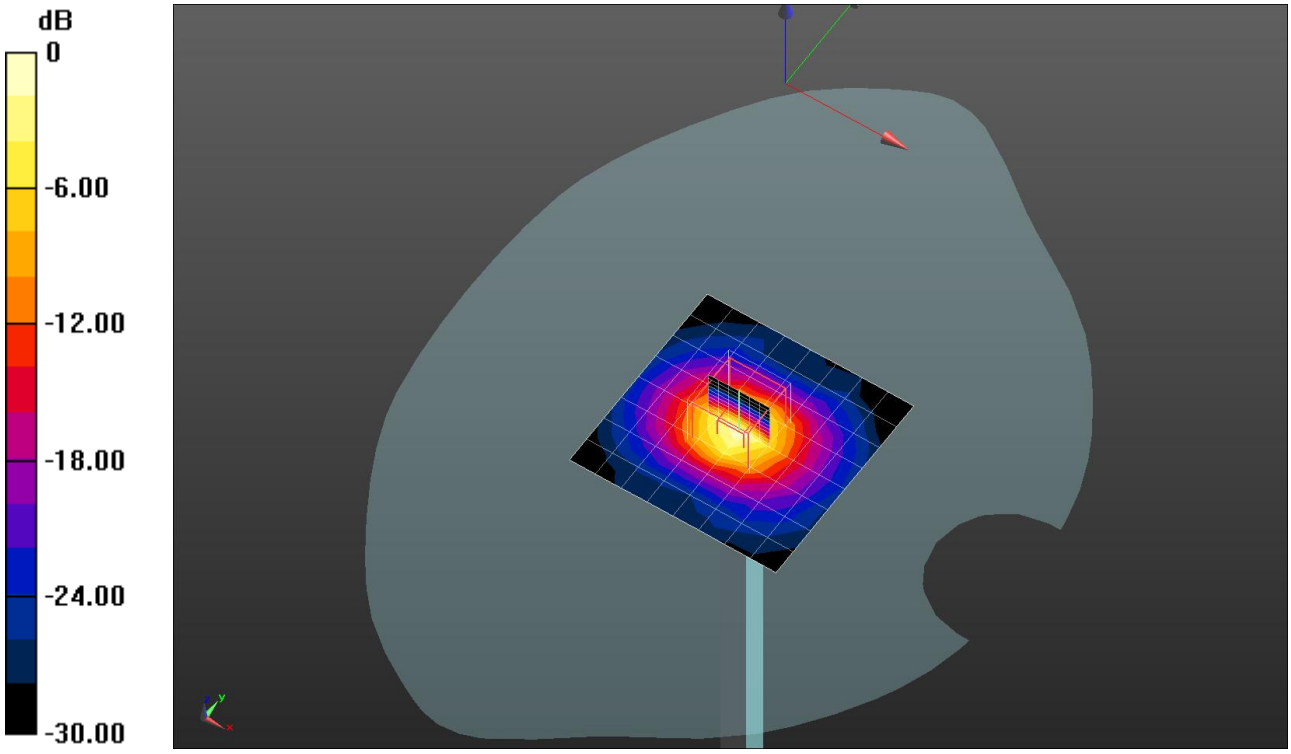
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(3.75, 3.75, 3.75); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 100 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.8 W/kg

## Dipole/Input 100 mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.56 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 32.8 W/kg
**SAR(1 g) = 7.89 W/kg; SAR(10 g) = 2.2 W/kg**
Maximum value of SAR (measured) = 16.5 W/kg




0 dB = 16.5 W/kg = 12.17 dBW/kg

Date: 4/6/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1111

Frequency: 5250 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 5250 MHz; $\sigma$ = 5.496 S/m; $\varepsilon_r$ = 47.851; $\rho$ = 1000 kg/m$^3$

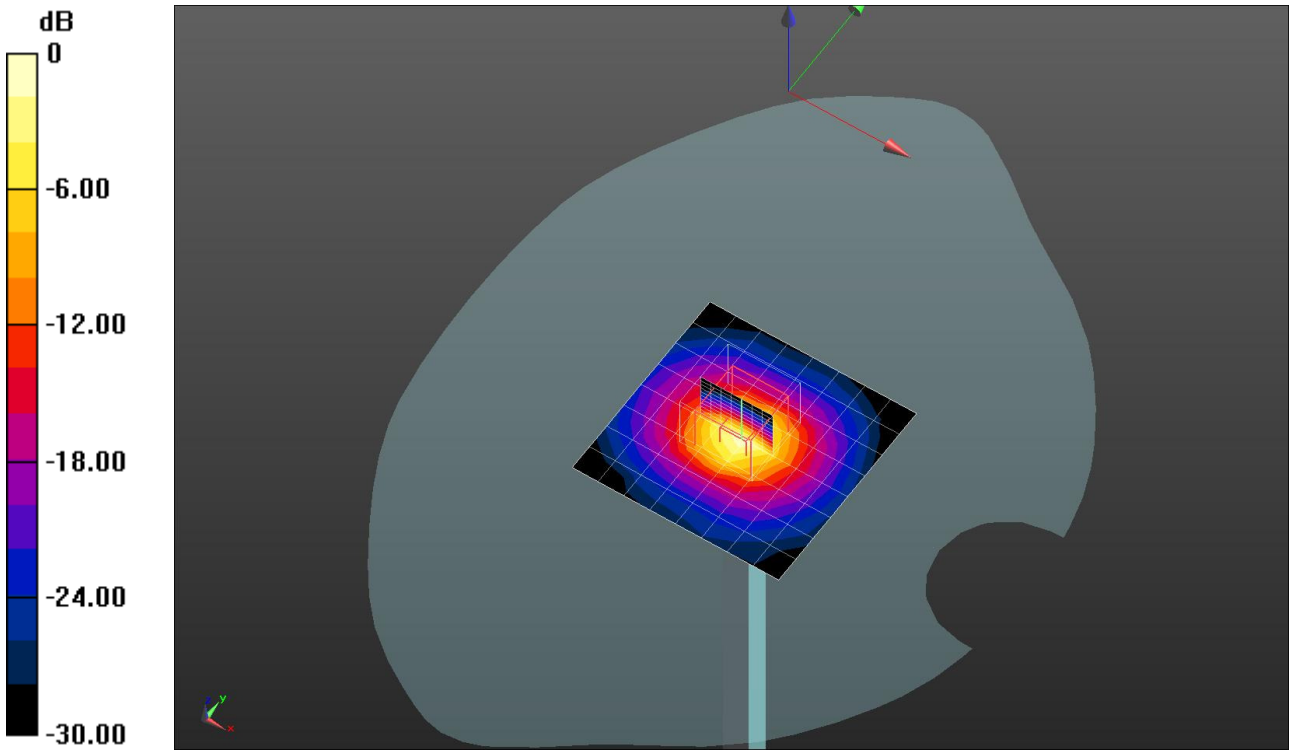
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(4.34, 4.34, 4.34); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 100 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.3 W/kg

## Dipole/Input 100 mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.25 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 30.4 W/kg
**SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.12 W/kg**
Maximum value of SAR (measured) = 15.7 W/kg




0 dB = 15.7 W/kg = 11.96 dBW/kg

Date: 4/6/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

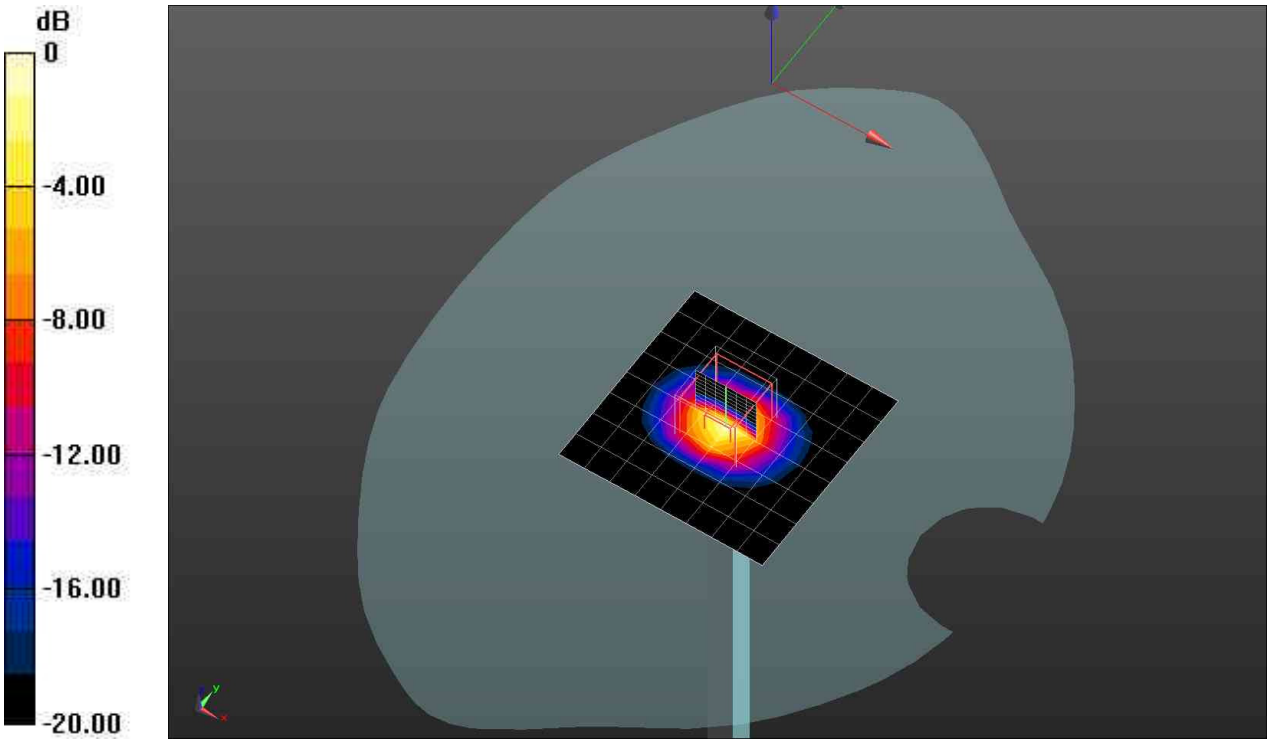
## DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1111

Frequency: 5600 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 5600 MHz; $\sigma$ = 5.951 S/m; $\varepsilon_r$ = 47.288; $\rho$ = 1000 kg/m$^3$

DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(3.75, 3.75, 3.75); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Dipole/Input 100 mW/Area Scan (9x9x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 17.5 W/kg

**Dipole/Input 100 mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 59.57 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 35.1 W/kg
**SAR(1 g) = 8.39 W/kg; SAR(10 g) = 2.34 W/kg**
Maximum value of SAR (measured) = 17.8 W/kg




0 dB = 17.8 W/kg = 12.50 dBW/kg

Date: 4/7/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1111

Frequency: 5600 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 5600 MHz; $\sigma$ = 5.893 S/m; $\varepsilon_r$ = 47.036; $\rho$ = 1000 kg/m$^3$

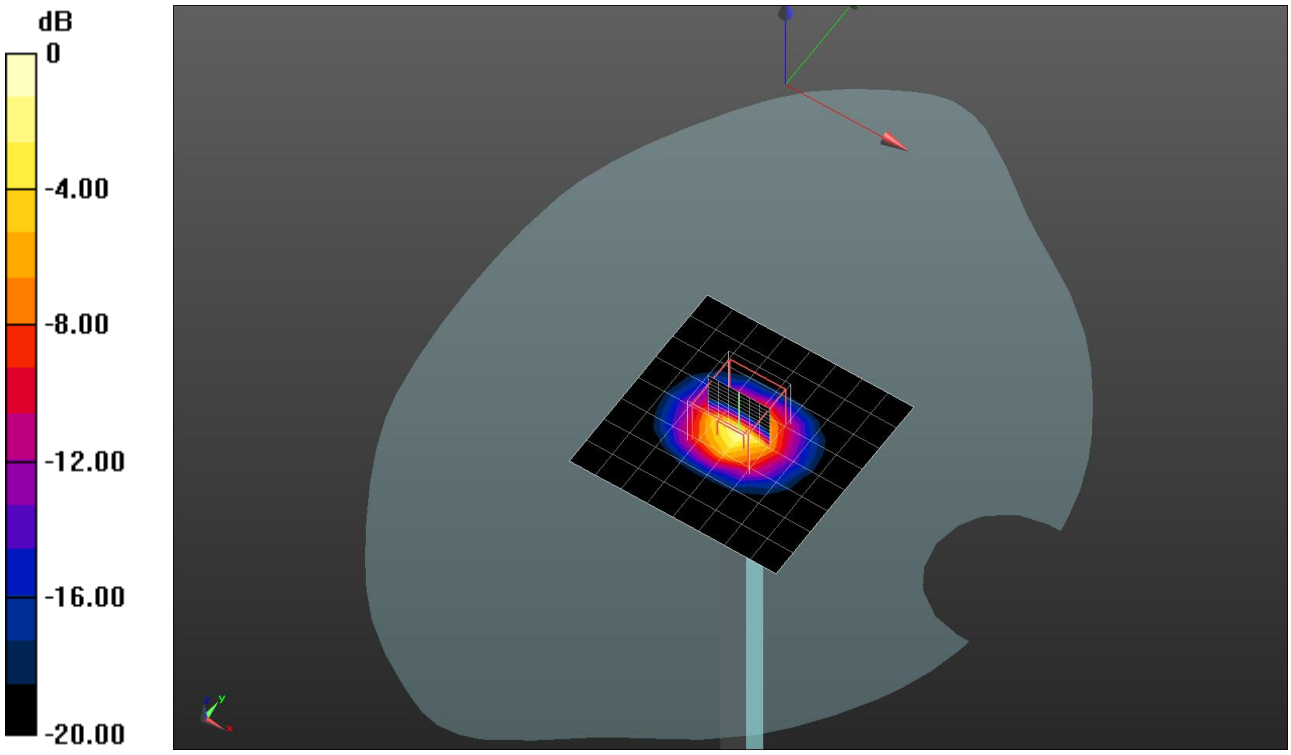
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(3.75, 3.75, 3.75); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 100 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.2 W/kg

## Dipole/Input 100 mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.45 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 33.9 W/kg
**SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.25 W/kg**
Maximum value of SAR (measured) = 17.4 W/kg




0 dB = 17.4 W/kg = 12.41 dBW/kg

Date: 4/8/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1111

Frequency: 5600 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 5600 MHz; $\sigma$ = 4.895 S/m; $\varepsilon_r$ = 34.559; $\rho$ = 1000 kg/m$^3$

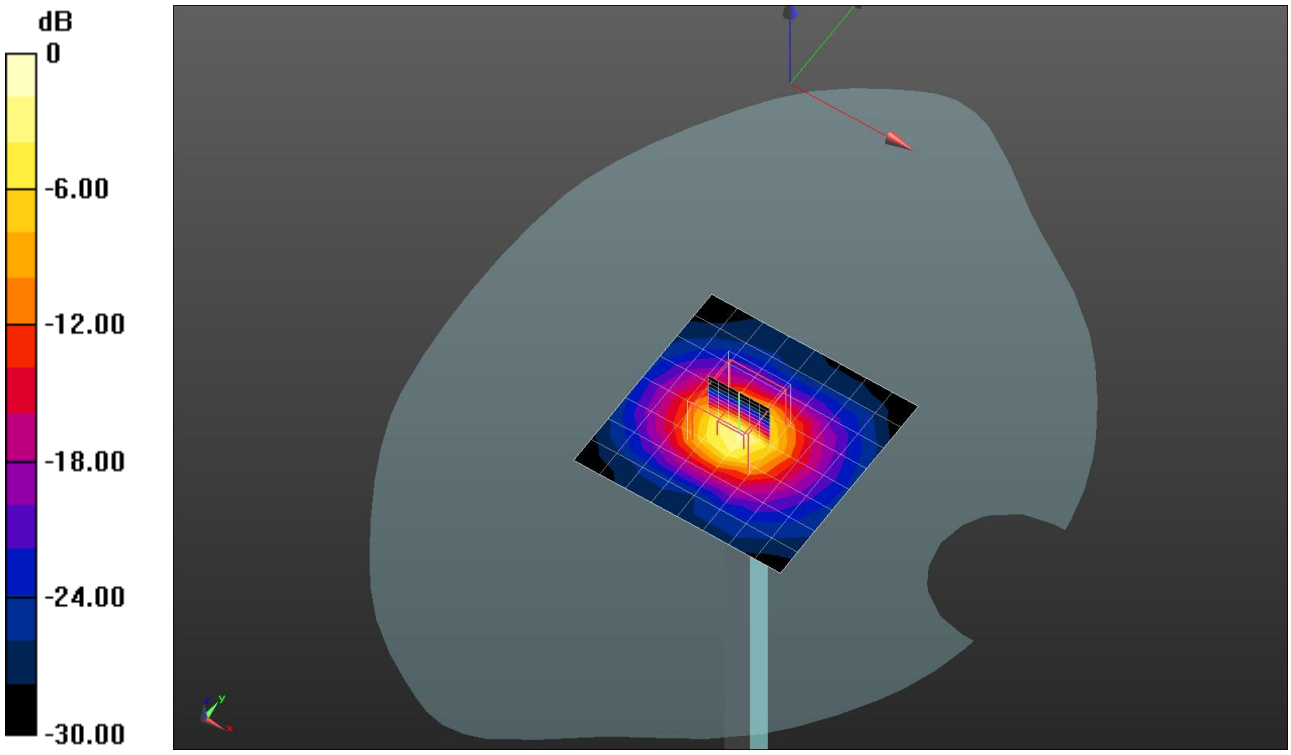
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(4.45, 4.45, 4.45); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 100 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 17.1 W/kg

## Dipole/Input 100 mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 63.30 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 38.0 W/kg
**SAR(1 g) = 8.74 W/kg; SAR(10 g) = 2.45 W/kg**
Maximum value of SAR (measured) = 18.6 W/kg




0 dB = 18.6 W/kg = 12.70 dBW/kg

Date: 4/9/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1111

Frequency: 5250 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 5250 MHz; $\sigma$ = 4.608 S/m; $\varepsilon_r$ = 36.104; $\rho$ = 1000 kg/m$^3$

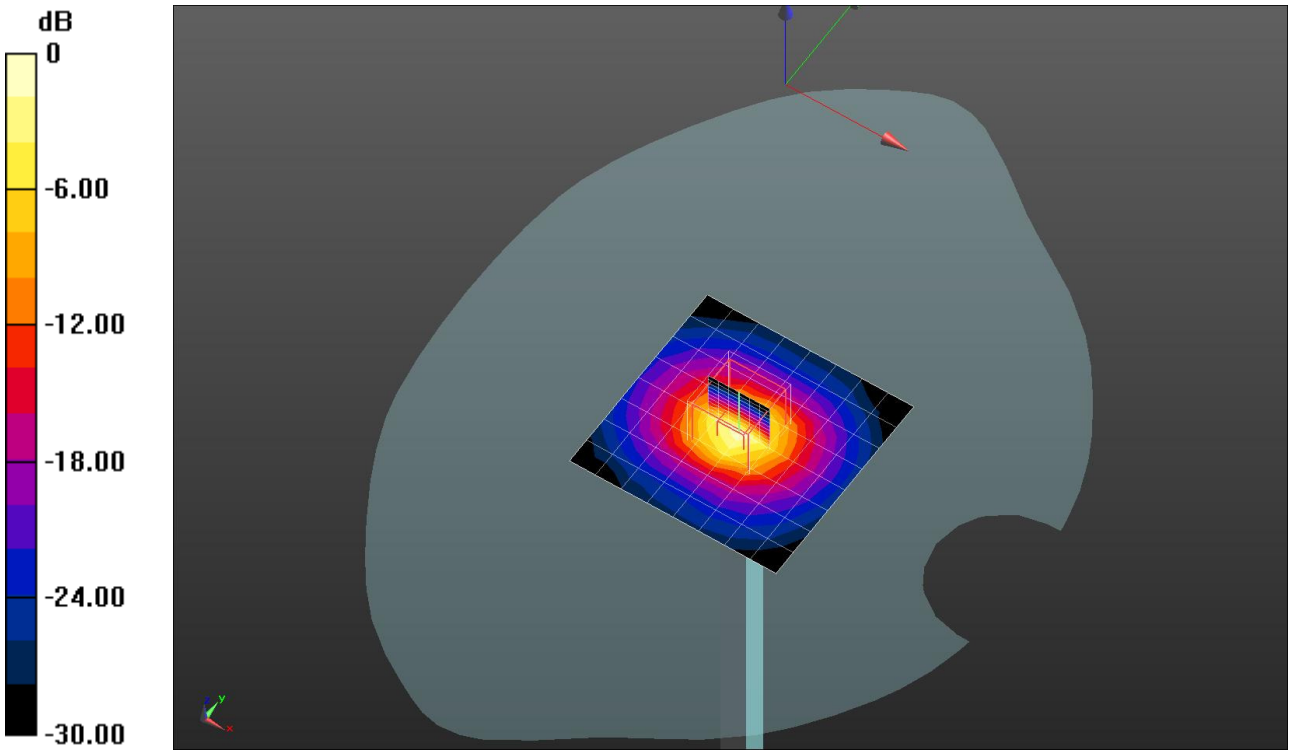
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(5.16, 5.16, 5.16); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 100 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.4 W/kg

## Dipole/Input 100 mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.83 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 33.4 W/kg
**SAR(1 g) = 8.15 W/kg; SAR(10 g) = 2.32 W/kg**
Maximum value of SAR (measured) = 16.9 W/kg




0 dB = 16.9 W/kg = 12.28 dBW/kg

Date: 4/9/2016

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

# System Performance Check

## DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1111

Frequency: 5600 MHz;Duty Cycle: 1:1
Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 5600 MHz; $\sigma$ = 4.96 S/m; $\varepsilon_r$ = 35.631; $\rho$ = 1000 kg/m$^3$

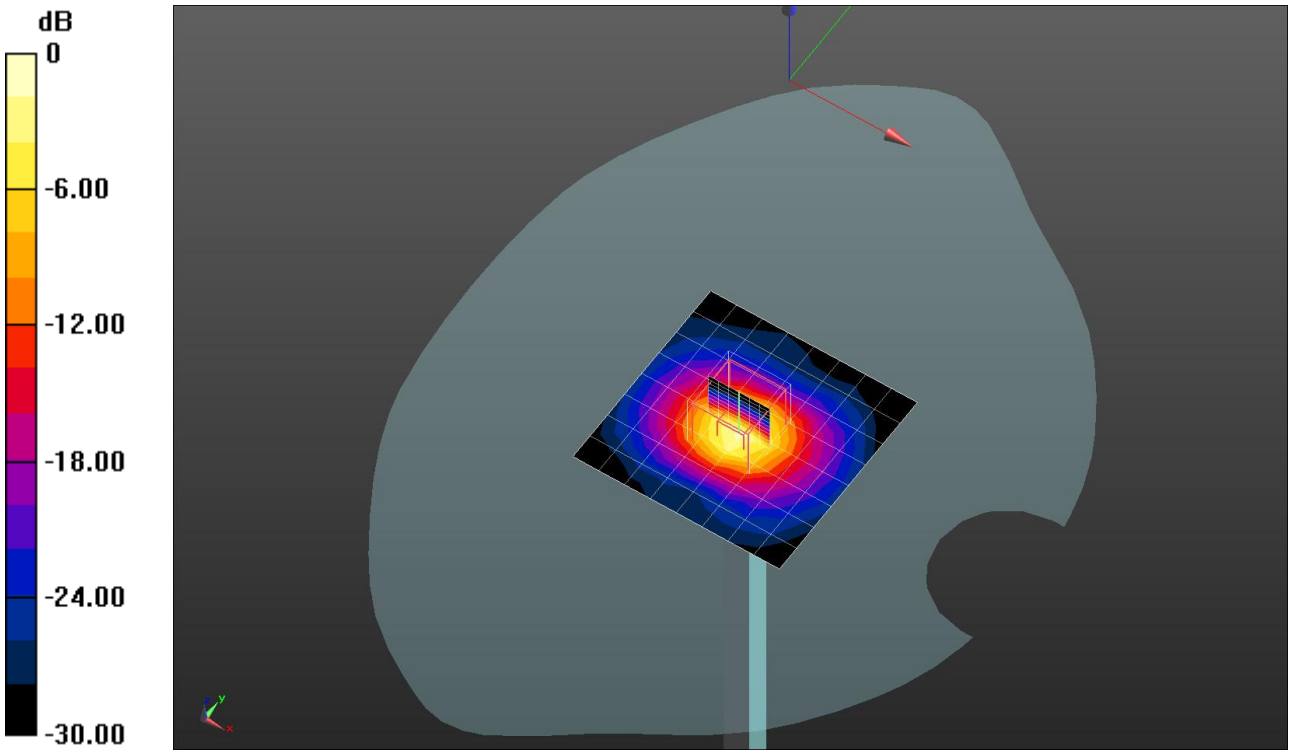
DASY5 Configuration:
- Probe: EX3DV4 - SN7321; ConvF(4.45, 4.45, 4.45); Calibrated: 8/18/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn508; Calibrated: 11/23/2015
- Phantom: SAM v4.0 SN1194; Type: QD000P40CA; Serial: TP 1194
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## Dipole/Input 100 mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 17.3 W/kg

## Dipole/Input 100 mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.42 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 37.1 W/kg
**SAR(1 g) = 8.64 W/kg; SAR(10 g) = 2.43 W/kg**
Maximum value of SAR (measured) = 18.4 W/kg




0 dB = 18.4 W/kg = 12.65 dBW/kg