



**Attachment 1 – System Validation Plots**

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## System Validation (Head 835 MHz)

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.893$  mho/m;  $\epsilon_r = 42.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.29, 6.29, 6.29); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- 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) = 2.72 mW/g

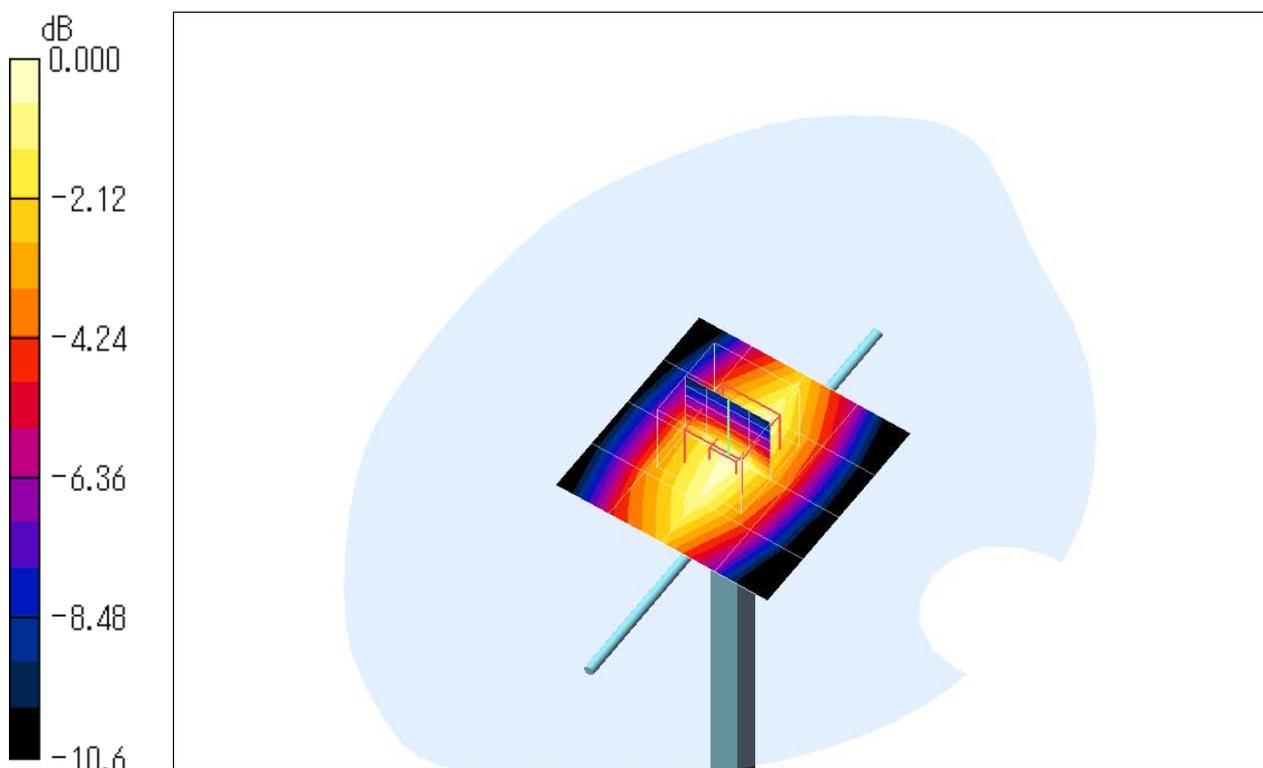
**Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.2 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 3.69 W/kg

**SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.66 mW/g**

Maximum value of SAR (measured) = 2.75 mW/g



0 dB = 2.75mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## System Validation (Body 835 MHz)

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.941 \text{ mho/m}$ ;  $\epsilon_r = 54.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.22, 6.22, 6.22); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- 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:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (measured) = 2.66 mW/g

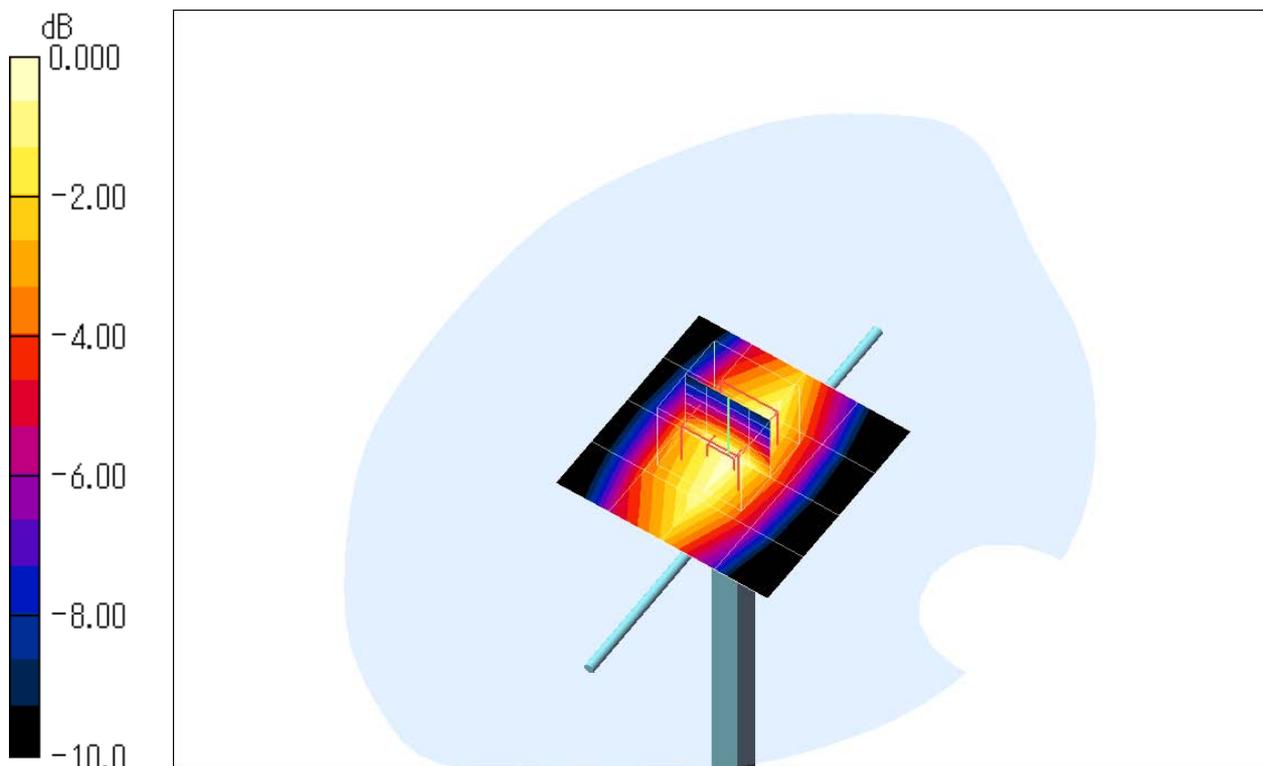
**Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.4 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 3.55 W/kg

**SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.66 mW/g**

Maximum value of SAR (measured) = 2.72 mW/g



0 dB = 2.72mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## System Validation (Head 1900 MHz)

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.31, 5.31, 5.31); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- 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) = 11.2 mW/g

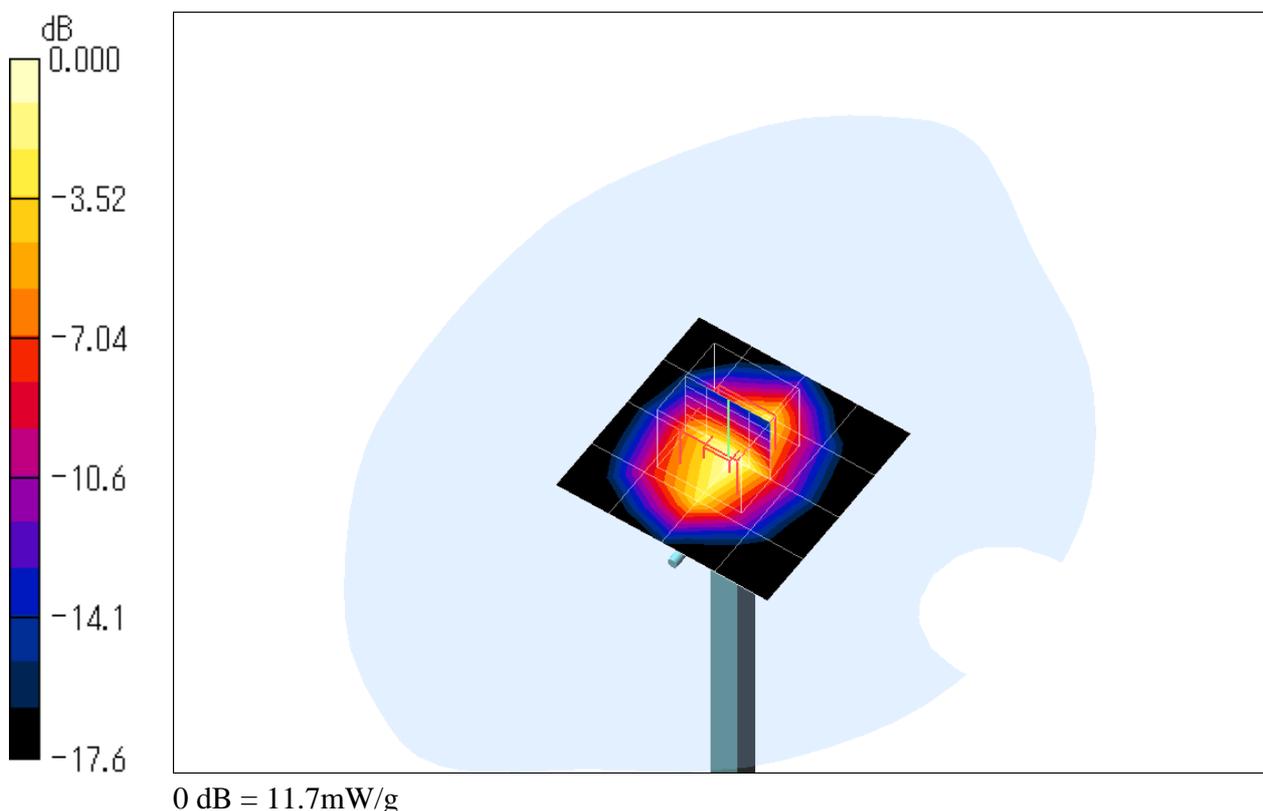
**Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 93.7 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 17.9 W/kg

**SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.41 mW/g**

Maximum value of SAR (measured) = 11.7 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

**System Validation (Body 1900 MHz)****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d112**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASy4 (High Precision Assessment)

DASy4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.86, 4.86, 4.86); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- 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

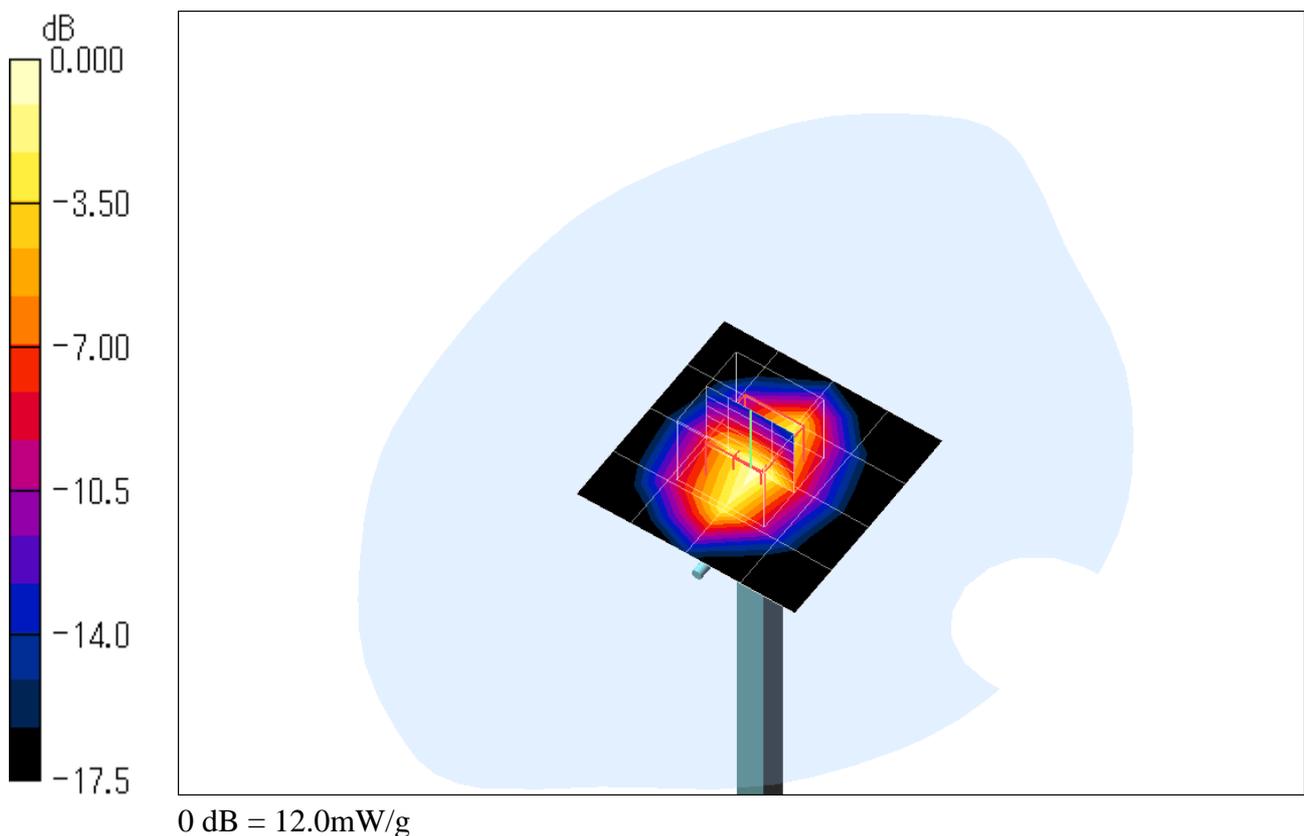
Maximum value of SAR (measured) = 12.0 mW/g

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

dz=5mm

Reference Value = 92.2 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 18.9 W/kg

**SAR(1 g) = 10.7 mW/g; SAR(10 g) = 5.6 mW/g**



**Attachment 2-1 – SAR Test Plots (WCDMA Band V)**

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Left Head, Cheek/Touch 4182ch (836.4MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.893 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASy4 (High Precision Assessment)

DASy4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.29, 6.29, 6.29); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Cheek/Touch Position/Area Scan (10x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.669 mW/g

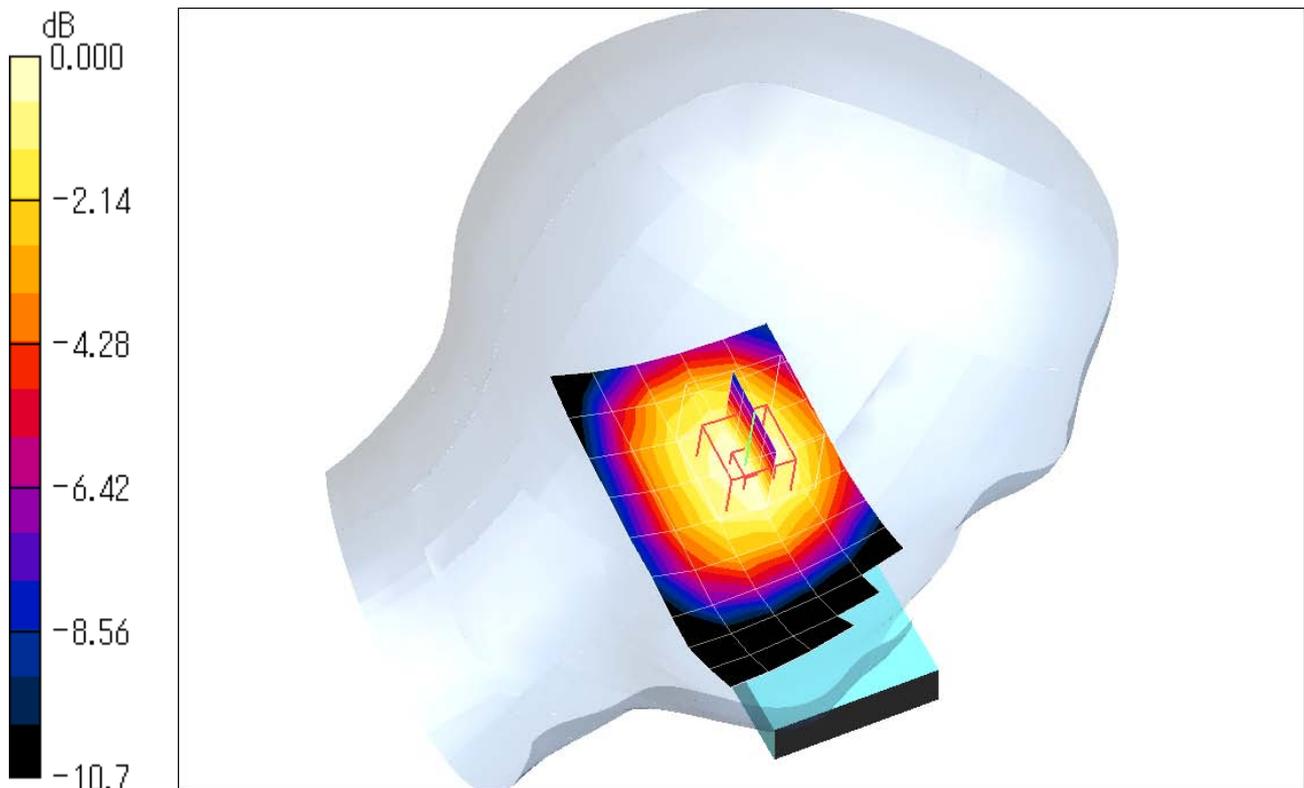
**Cheek/Touch Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 24.9 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.825 W/kg

**SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.462 mW/g**

Maximum value of SAR (measured) = 0.663 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Left Head, Ear/Tilt 4182ch (836.4MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.893 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.29, 6.29, 6.29); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Ear/Tilt Position/Area Scan (10x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.397 mW/g

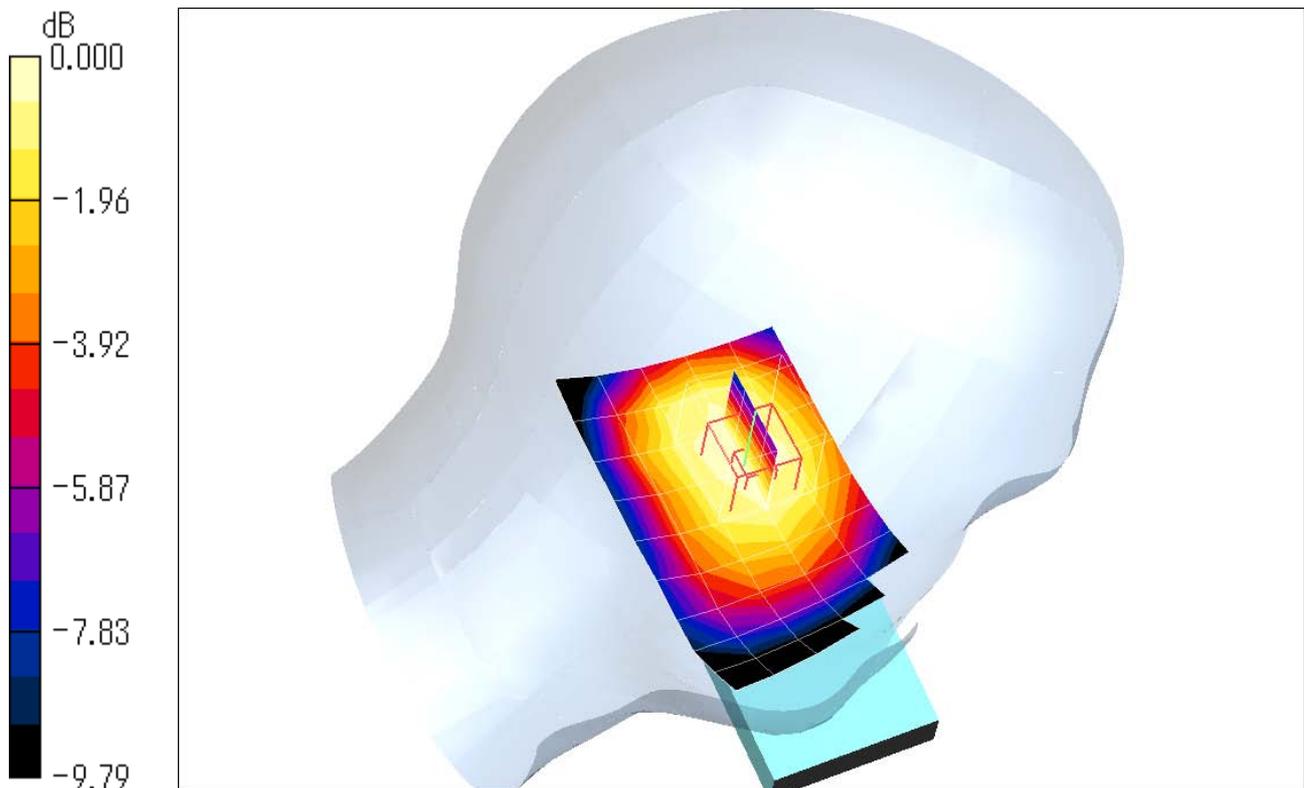
**Ear/Tilt Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.3 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.490 W/kg

**SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.287 mW/g**

Maximum value of SAR (measured) = 0.403 mW/g



0 dB = 0.403mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Right Head, Cheek/Touch 4132ch (826.4MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used:  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.884 \text{ mho/m}$ ;  $\epsilon_r = 42.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.29, 6.29, 6.29); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Cheek/Touch Position/Area Scan (10x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

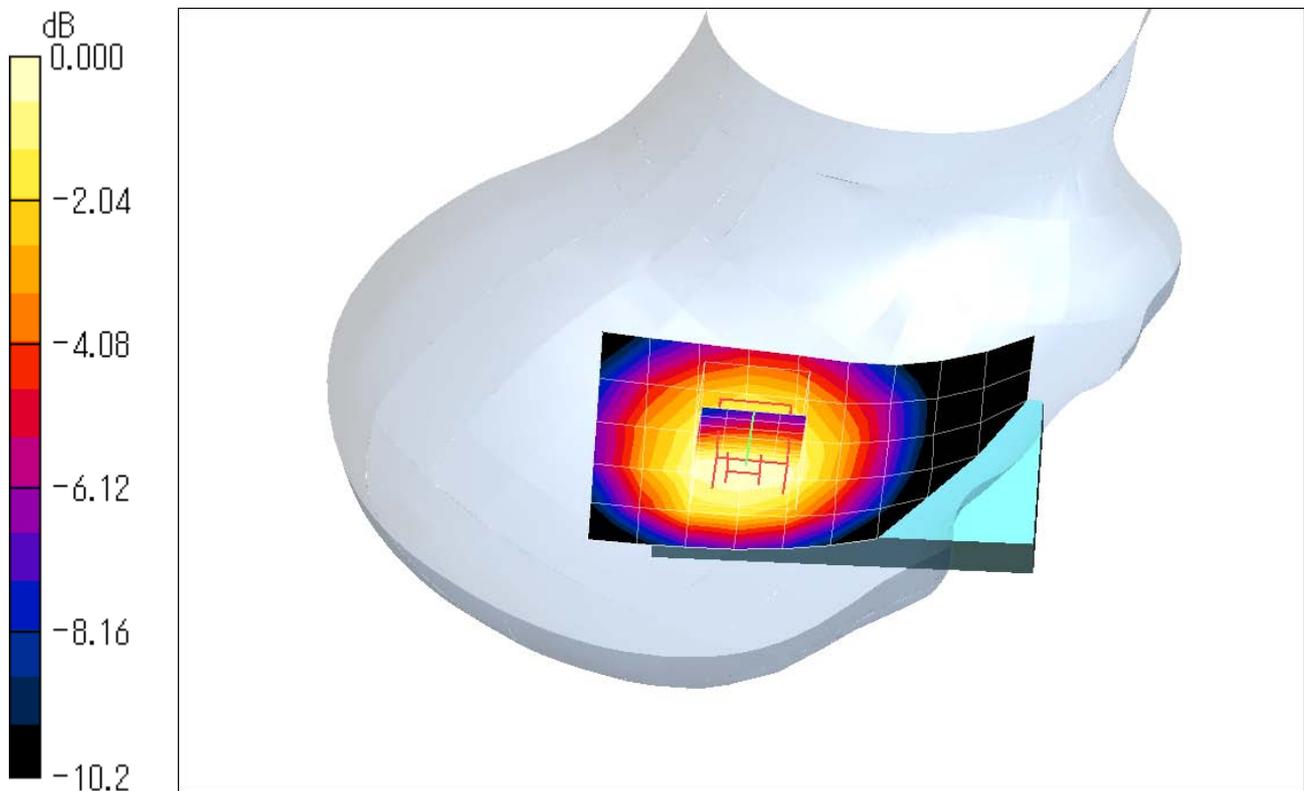
Maximum value of SAR (measured) = 0.759 mW/g

**Cheek/Touch Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 25.0 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.921 W/kg

**SAR(1 g) = 0.724 mW/g; SAR(10 g) = 0.532 mW/g**



0 dB = 0.759mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Right Head, Cheek/Touch 4182ch (836.4MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.893 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.29, 6.29, 6.29); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Cheek/Touch Position/Area Scan (10x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.782 mW/g

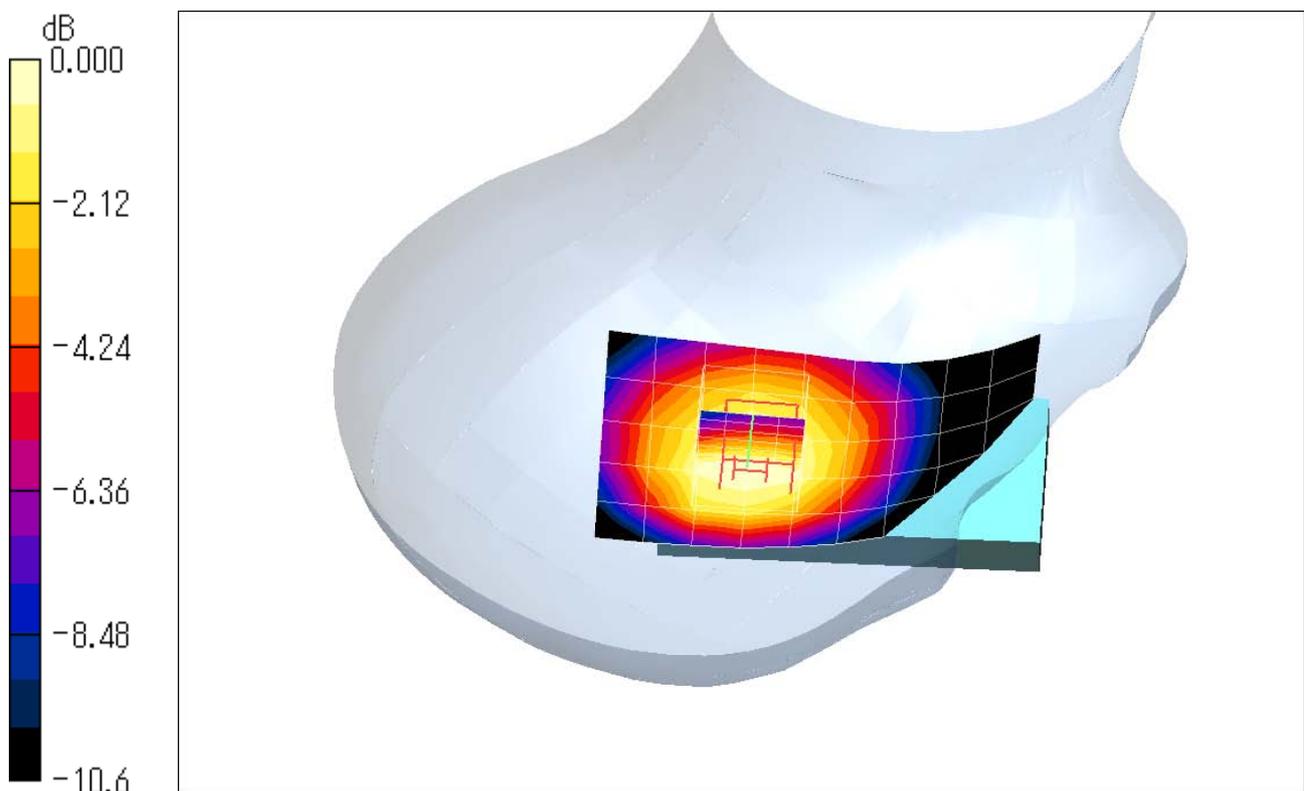
**Cheek/Touch Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 25.0 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.948 W/kg

**SAR(1 g) = 0.747 mW/g; SAR(10 g) = 0.547 mW/g**

Maximum value of SAR (measured) = 0.785 mW/g



0 dB = 0.785mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Right Head, Cheek/Touch 4233ch (846.6MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used:  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.902 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.29, 6.29, 6.29); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Cheek/Touch Position/Area Scan (10x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.780 mW/g

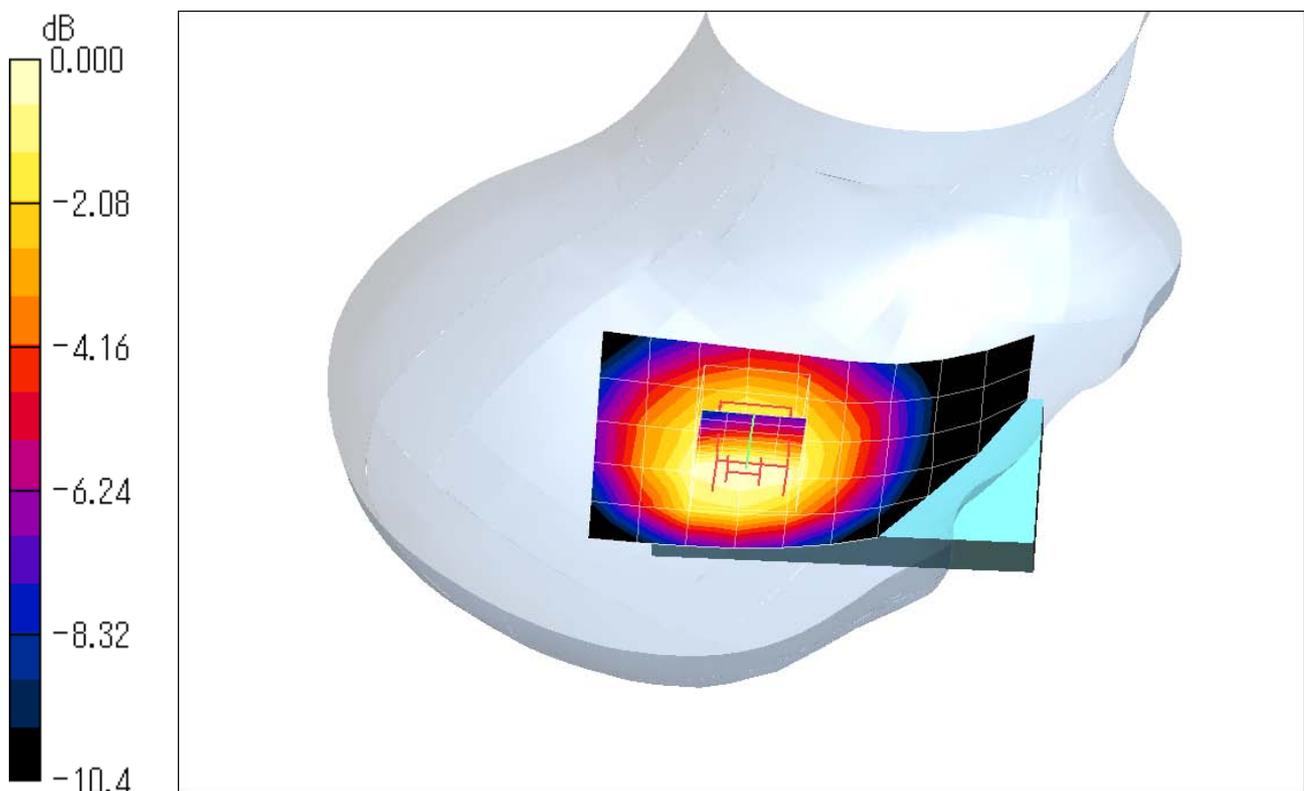
**Cheek/Touch Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 24.4 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.952 W/kg

**SAR(1 g) = 0.751 mW/g; SAR(10 g) = 0.548 mW/g**

Maximum value of SAR (measured) = 0.790 mW/g



0 dB = 0.790mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

**Right Head, Cheek/Touch 4233ch (846.6MHz)****DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used:  $f = 846.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 42.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

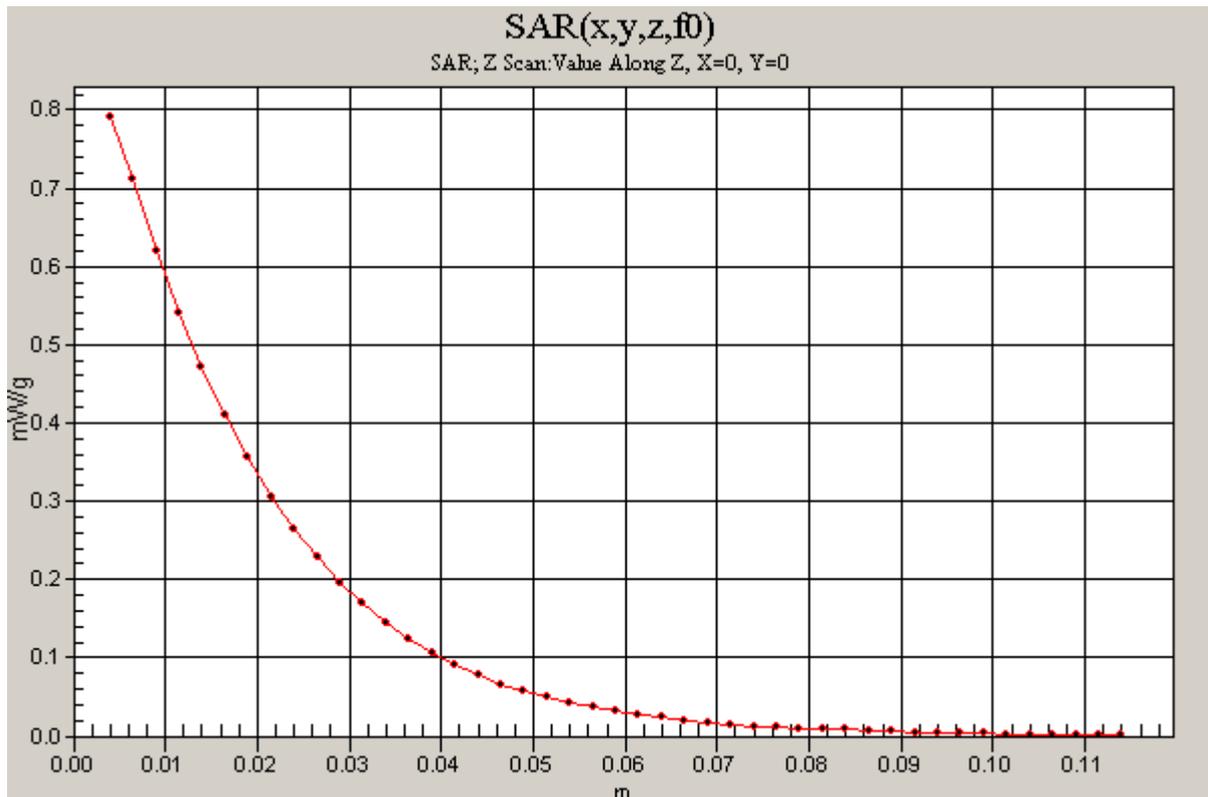
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.29, 6.29, 6.29); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Cheek/Touch Position/Z Scan (1x1x45):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Maximum value of SAR (measured) = 0.791 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Right Head, Ear/Tilt 4182ch (836.4MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.893 \text{ mho/m}$ ;  $\epsilon_r = 42.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.29, 6.29, 6.29); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Ear/Tilt Position/Area Scan (10x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.465 mW/g

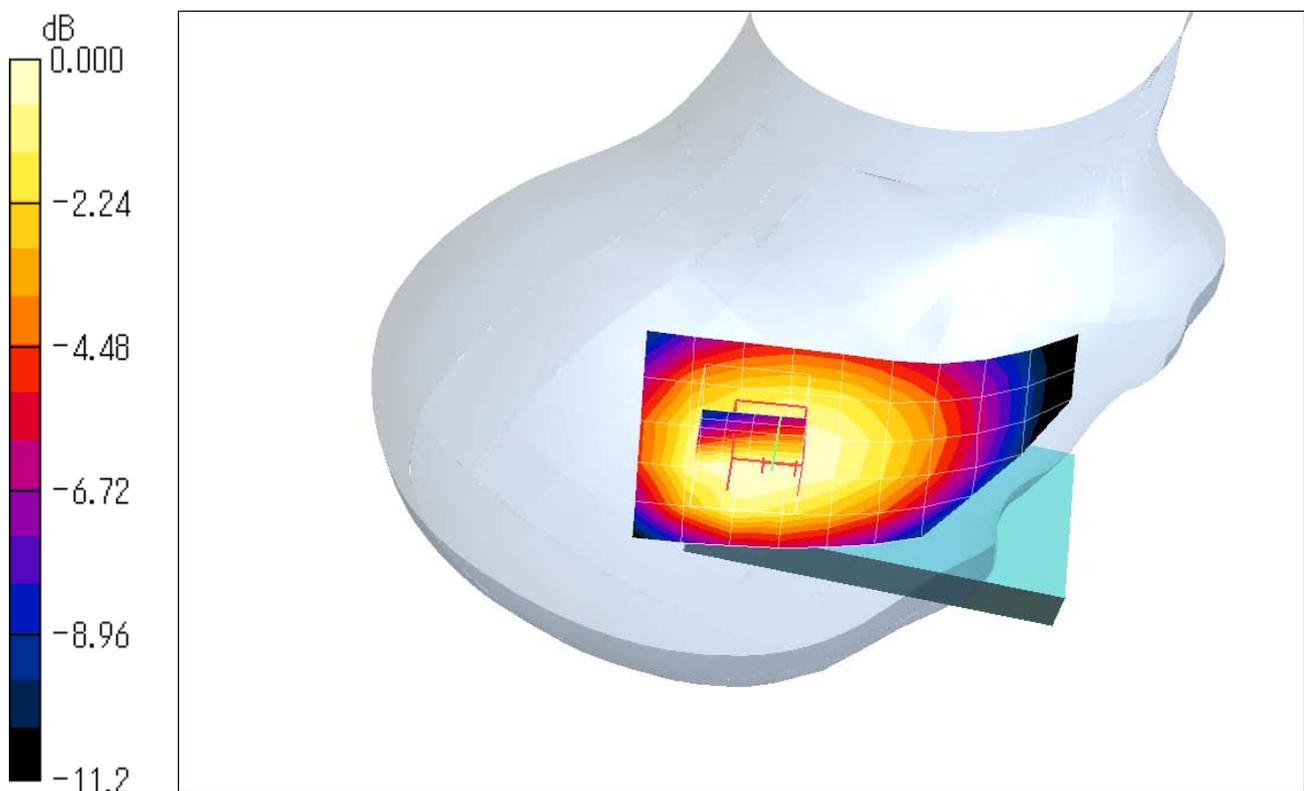
**Ear/Tilt Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.8 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.630 W/kg

**SAR(1 g) = 0.446 mW/g; SAR(10 g) = 0.331 mW/g**

Maximum value of SAR (measured) = 0.466 mW/g



0 dB = 0.466mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 4132ch (826.4MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.931$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.22, 6.22, 6.22); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.769 mW/g

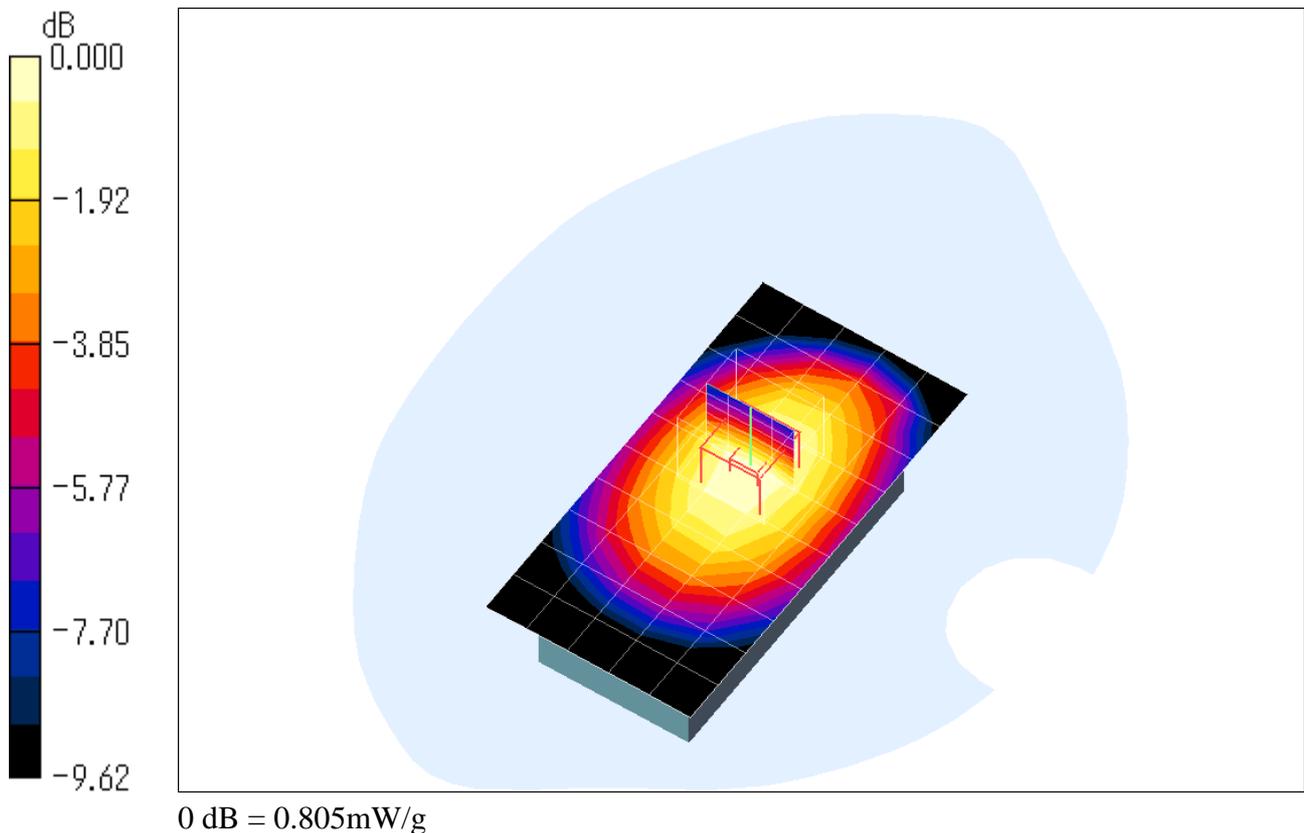
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.6 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.951 W/kg

**SAR(1 g) = 0.761 mW/g; SAR(10 g) = 0.564 mW/g**

Maximum value of SAR (measured) = 0.805 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 4132ch (826.4MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.931$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

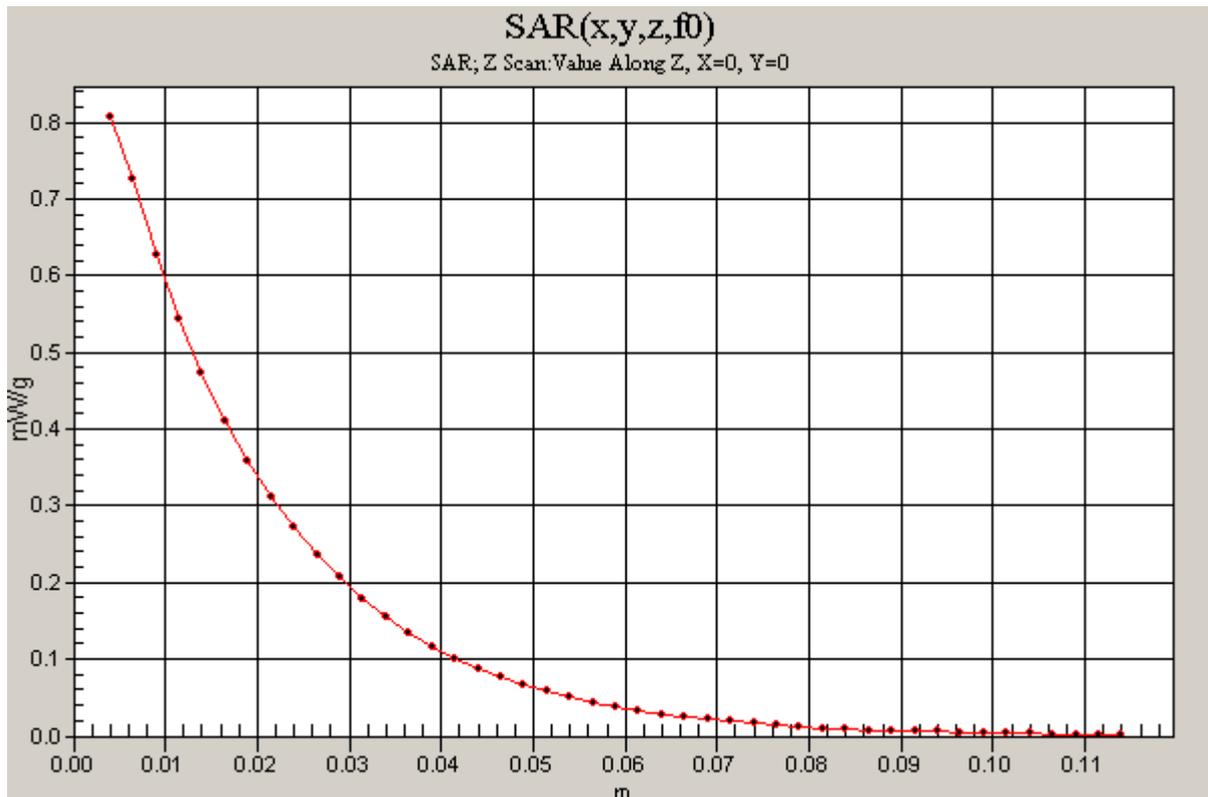
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.22, 6.22, 6.22); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Z Scan (1x1x45):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Maximum value of SAR (measured) = 0.807 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 4182ch (836.4MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.941$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.22, 6.22, 6.22); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.762 mW/g

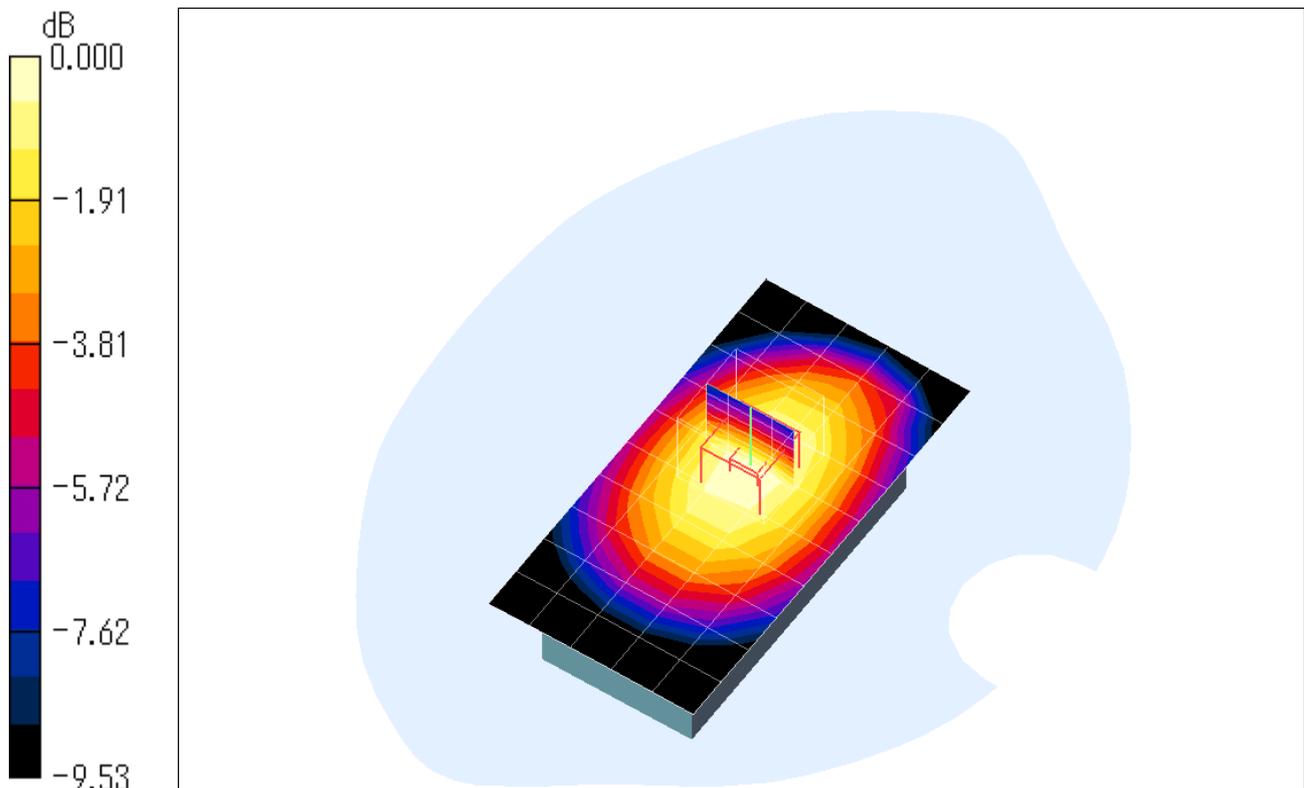
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.3 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.946 W/kg

**SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.564 mW/g**

Maximum value of SAR (measured) = 0.803 mW/g



0 dB = 0.803mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 4233ch (846.6MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used:  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.952 \text{ mho/m}$ ;  $\epsilon_r = 54.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(6.22, 6.22, 6.22); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (6x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.718 mW/g

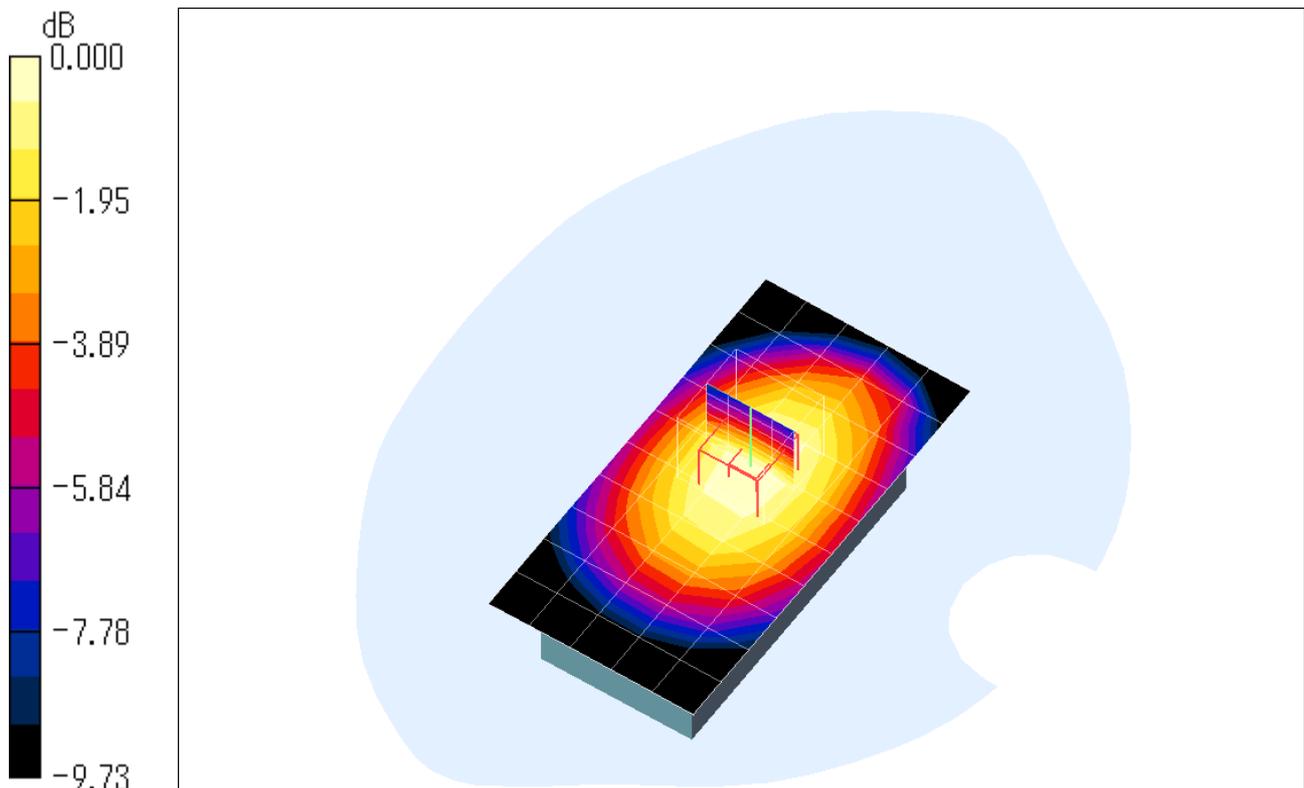
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 29.4 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.887 W/kg

**SAR(1 g) = 0.712 mW/g; SAR(10 g) = 0.527 mW/g**

Maximum value of SAR (measured) = 0.750 mW/g



0 dB = 0.750mW/g



**Attachment 2-2 – SAR Test Plots (PCS 1900)**

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

**Left Head, Cheek/Touch 661ch (1880.0MHz)****DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.31, 5.31, 5.31); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Cheek/Touch Position/Area Scan (10x6x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.346 mW/g

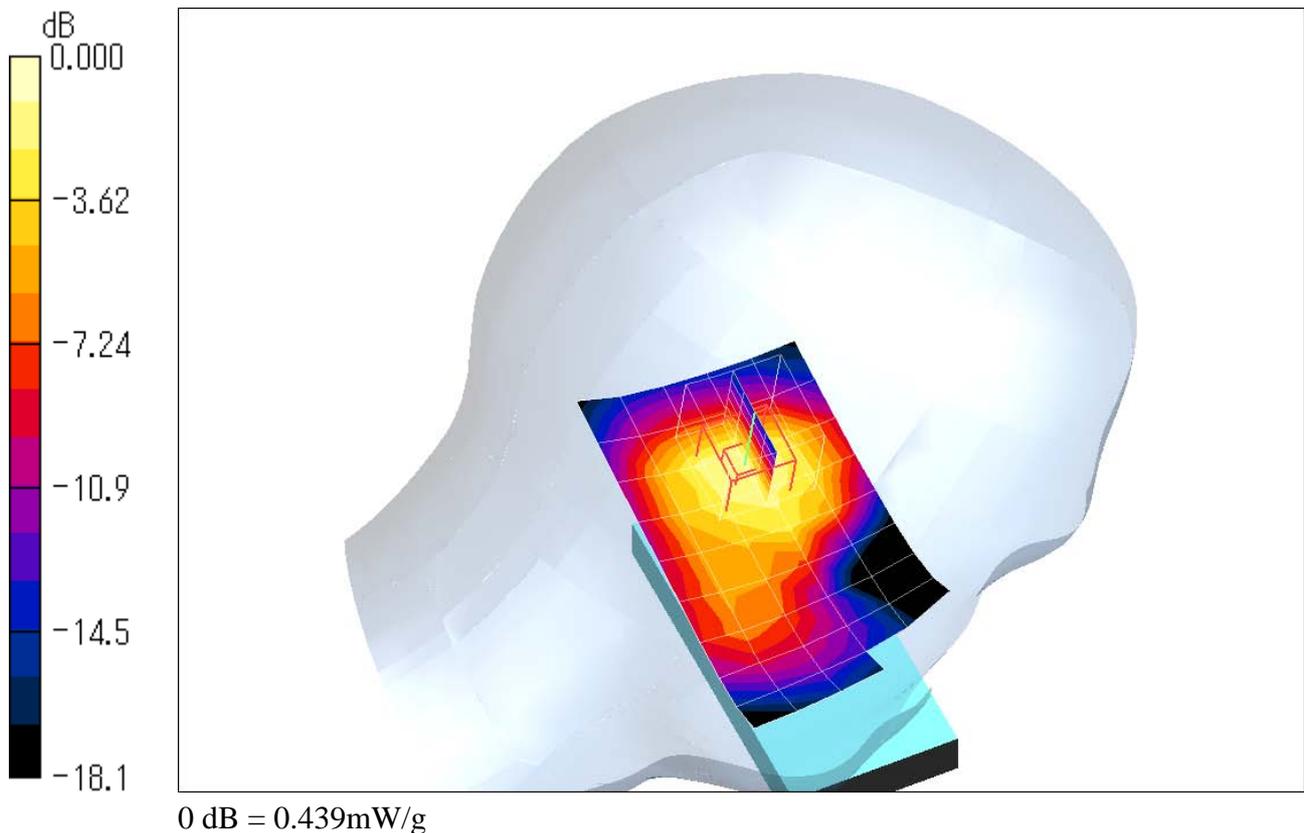
**Cheek/Touch Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.664 W/kg

**SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.208 mW/g**

Maximum value of SAR (measured) = 0.439 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Left Head, Ear/Tilt 661ch (1880.0MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.31, 5.31, 5.31); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Ear/Tilt Position/Area Scan (10x6x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.343 mW/g

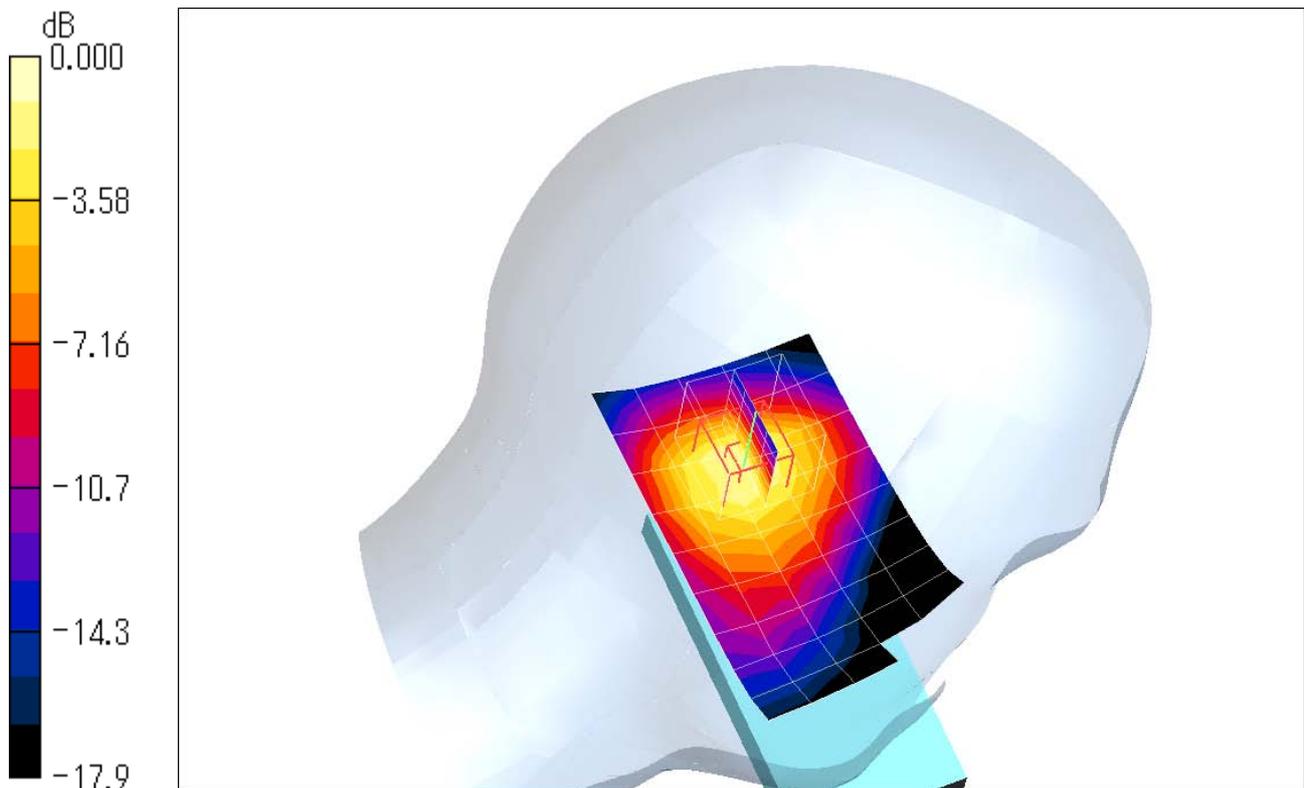
**Ear/Tilt Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.9 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.653 W/kg

**SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.221 mW/g**

Maximum value of SAR (measured) = 0.447 mW/g



0 dB = 0.447mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

**Right Head, Cheek/Touch 661ch (1880.0MHz)****DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.31, 5.31, 5.31); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Cheek/Touch Position/Area Scan (10x6x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.345 mW/g

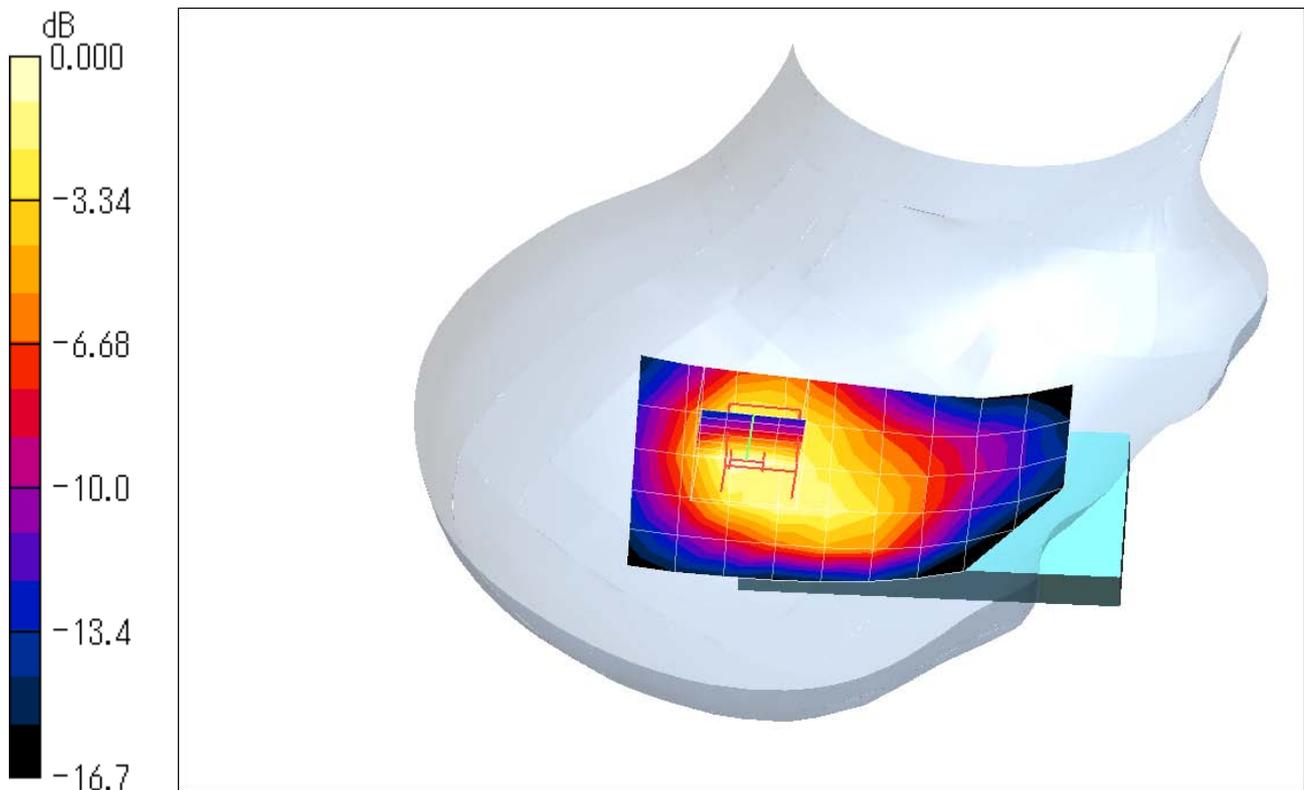
**Cheek/Touch Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.6 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.565 W/kg

**SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.202 mW/g**

Maximum value of SAR (measured) = 0.379 mW/g



0 dB = 0.379mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Right Head, Ear/Tilt 512ch (1850.2MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used:  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.36 \text{ mho/m}$ ;  $\epsilon_r = 39.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.31, 5.31, 5.31); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Ear/Tilt Position/Area Scan (10x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.301 mW/g

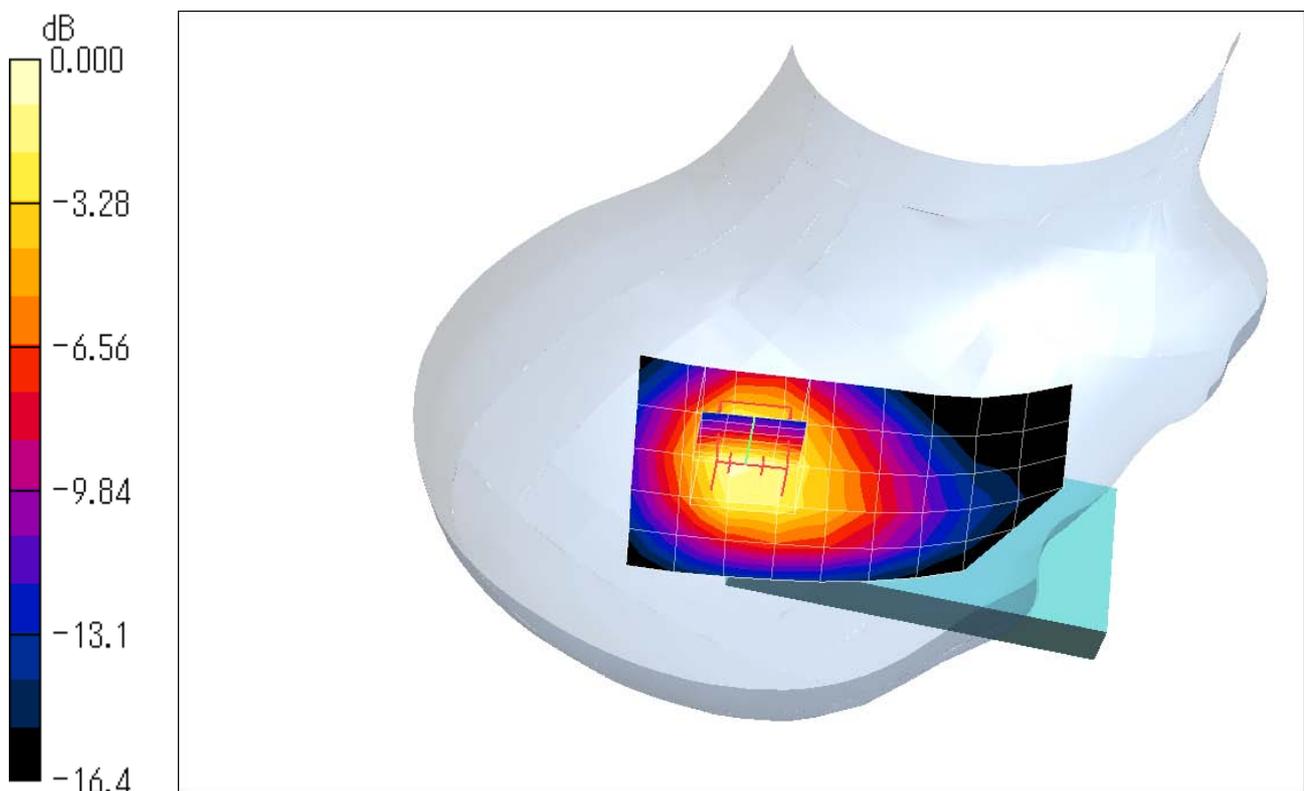
**Ear/Tilt Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 15.3 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.467 W/kg

**SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.170 mW/g**

Maximum value of SAR (measured) = 0.326 mW/g



0 dB = 0.326mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Right Head, Ear/Tilt 661ch (1880.0MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.31, 5.31, 5.31); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Ear/Tilt Position/Area Scan (10x6x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.398 mW/g

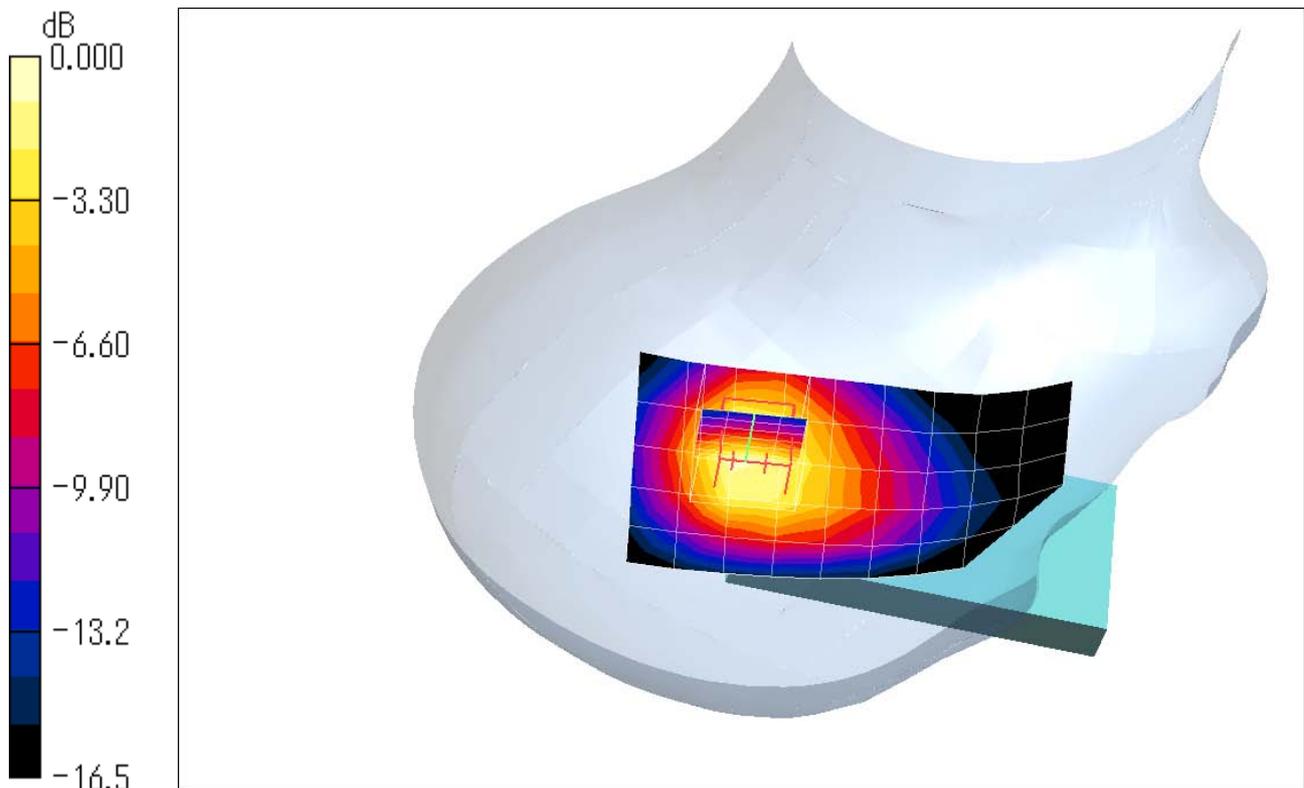
**Ear/Tilt Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.9 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.629 W/kg

**SAR(1 g) = 0.395 mW/g; SAR(10 g) = 0.228 mW/g**

Maximum value of SAR (measured) = 0.441 mW/g



0 dB = 0.441mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Right Head, Ear/Tilt 810ch (1909.8MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used:  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 39.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.31, 5.31, 5.31); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Ear/Tilt Position/Area Scan (10x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.471 mW/g

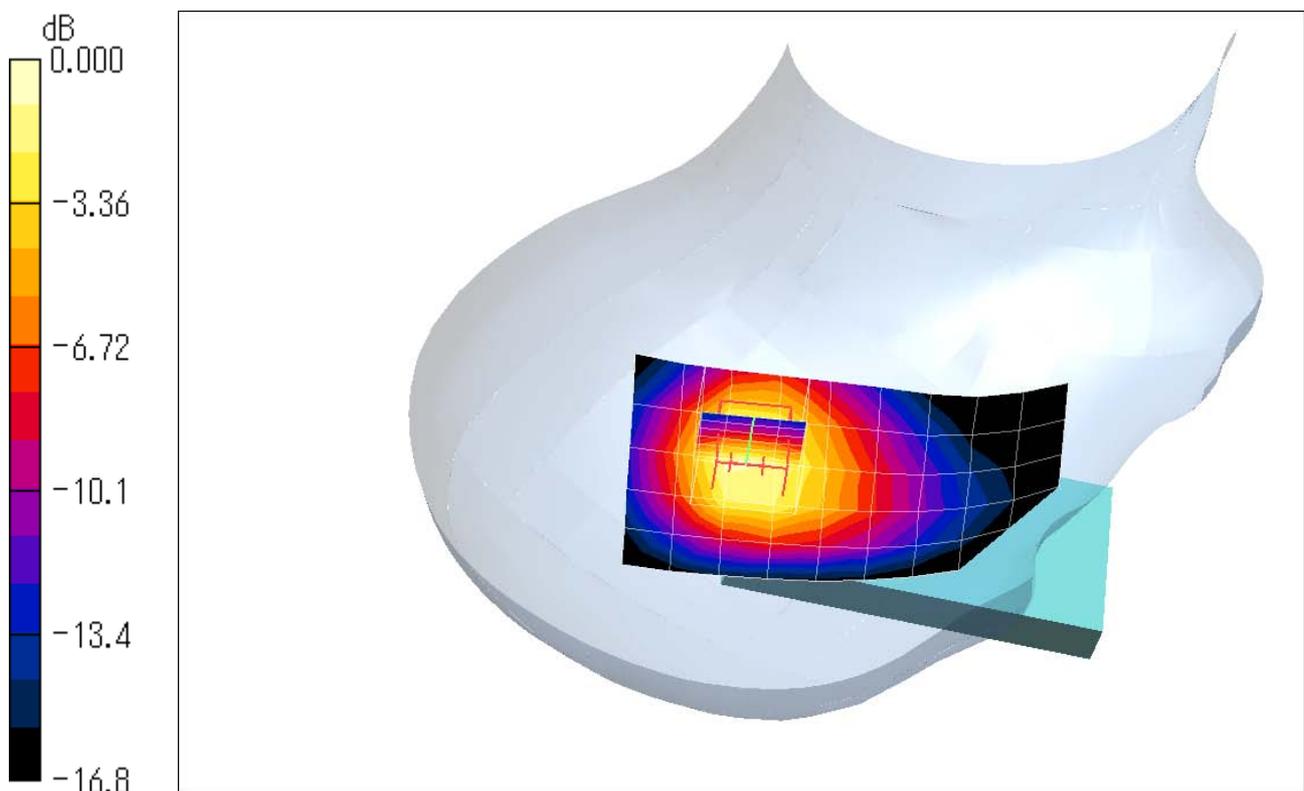
**Ear/Tilt Position/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 19.6 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.781 W/kg

**SAR(1 g) = 0.481 mW/g; SAR(10 g) = 0.277 mW/g**

Maximum value of SAR (measured) = 0.535 mW/g



0 dB = 0.535mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

**Right Head, Ear/Tilt 810ch (1909.8MHz)****DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 39.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

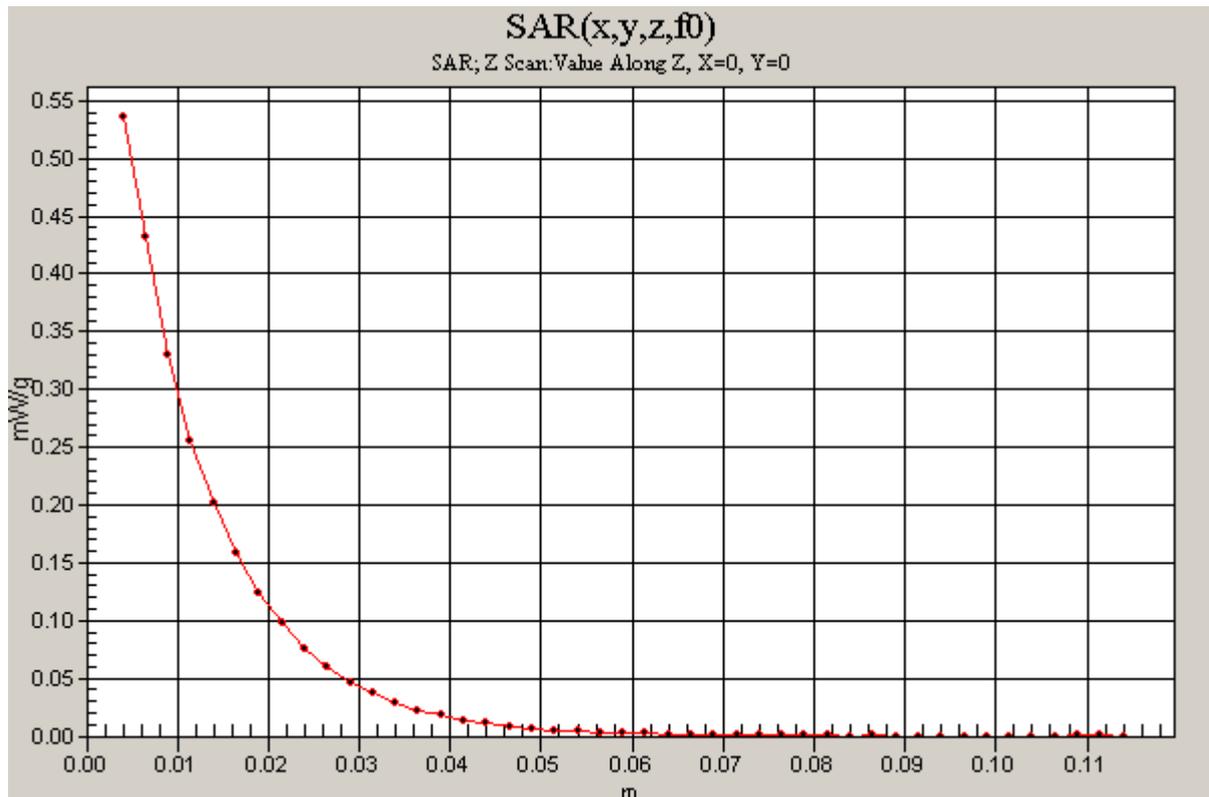
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.31, 5.31, 5.31); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Ear/Tilt Position/Z Scan (1x1x45):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Maximum value of SAR (measured) = 0.536 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 512ch (1850.2MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: M1900 Medium parameters used:  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.51 \text{ mho/m}$ ;  $\epsilon_r = 52.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.86, 4.86, 4.86); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (6x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.266 mW/g

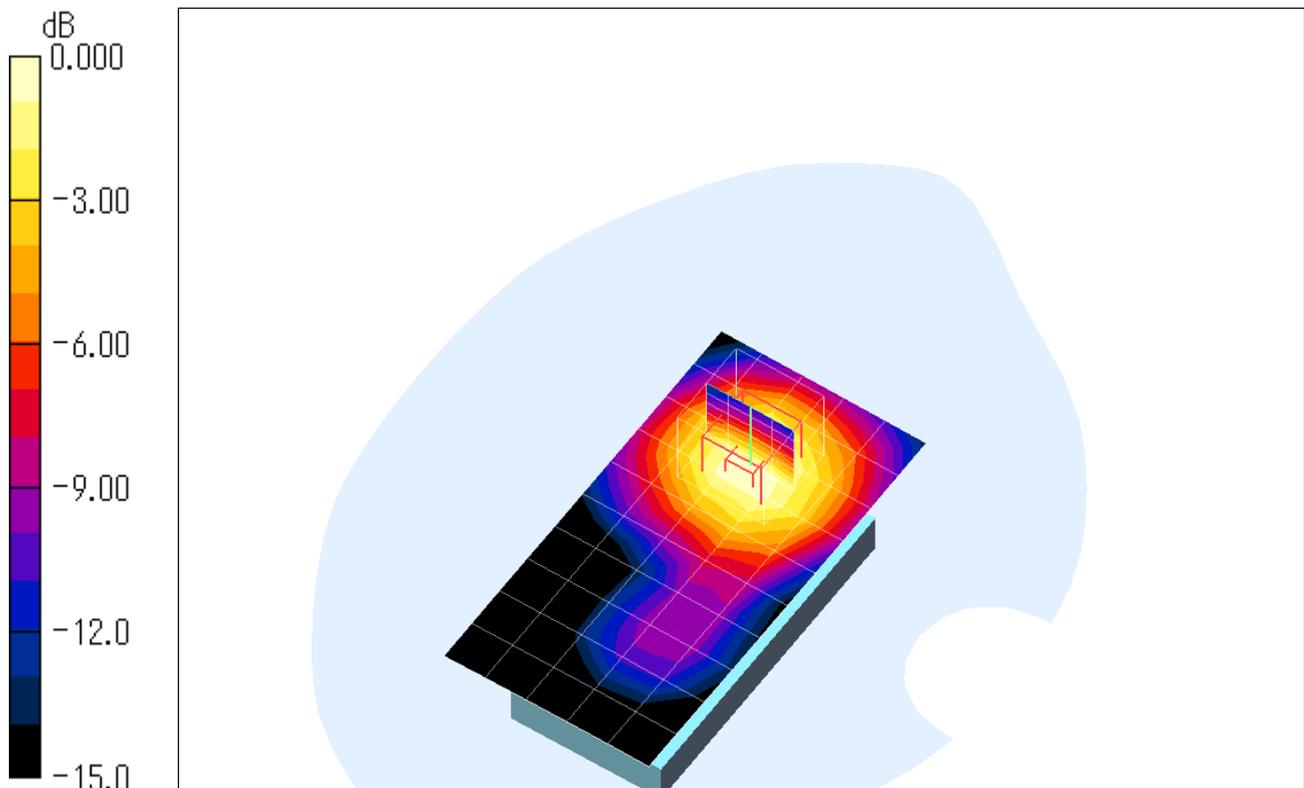
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.56 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.413 W/kg

**SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.166 mW/g**

Maximum value of SAR (measured) = 0.283 mW/g



0 dB = 0.283mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 661ch (1880.0MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: M1900 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.54 \text{ mho/m}$ ;  $\epsilon_r = 52.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.86, 4.86, 4.86); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (6x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.310 mW/g

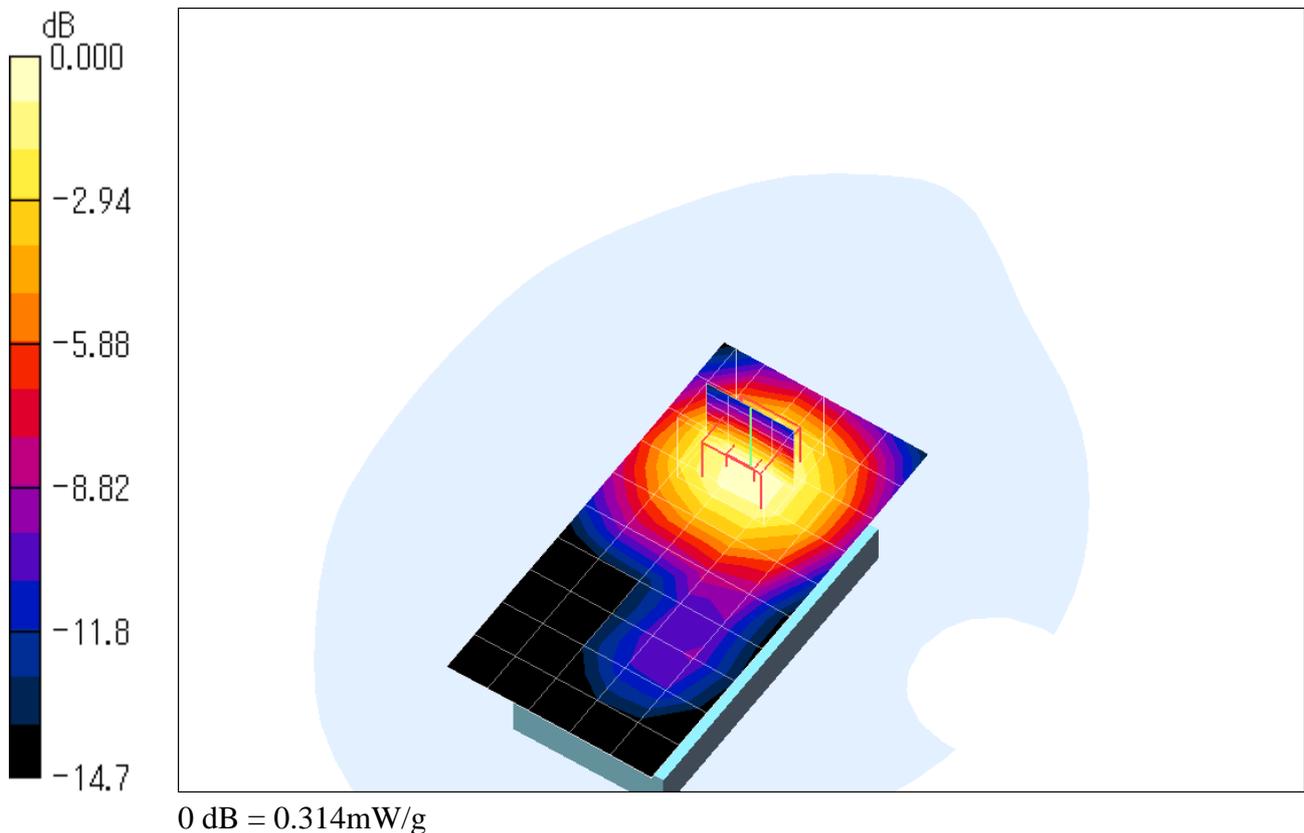
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.88 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.451 W/kg

**SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.184 mW/g**

Maximum value of SAR (measured) = 0.314 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 810ch (1909.8MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: M1900 Medium parameters used:  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.58 \text{ mho/m}$ ;  $\epsilon_r = 52.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.86, 4.86, 4.86); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (6x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.358 mW/g

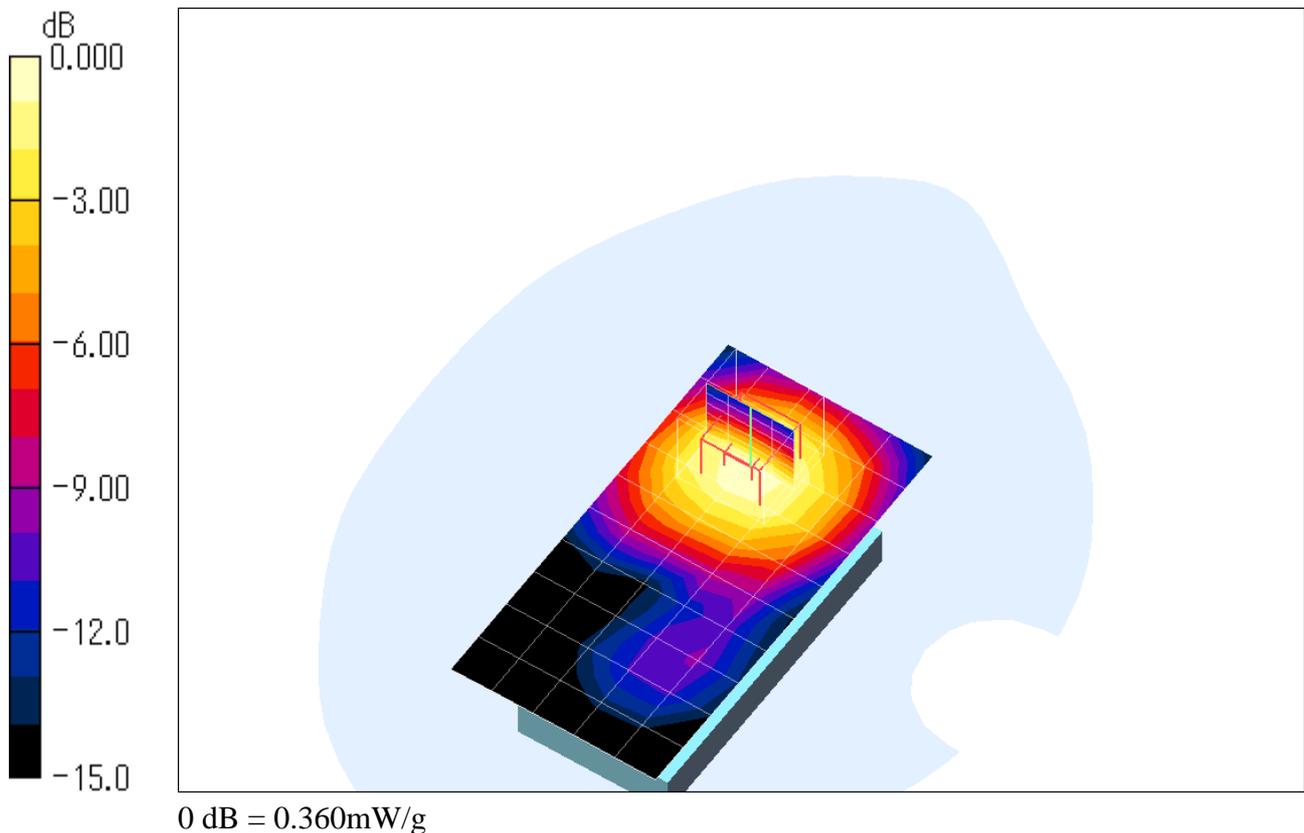
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10.5 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.524 W/kg

**SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.211 mW/g**

Maximum value of SAR (measured) = 0.360 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 810ch (1909.8MHz)

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: M1900 Medium parameters used:  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.58 \text{ mho/m}$ ;  $\epsilon_r = 52.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

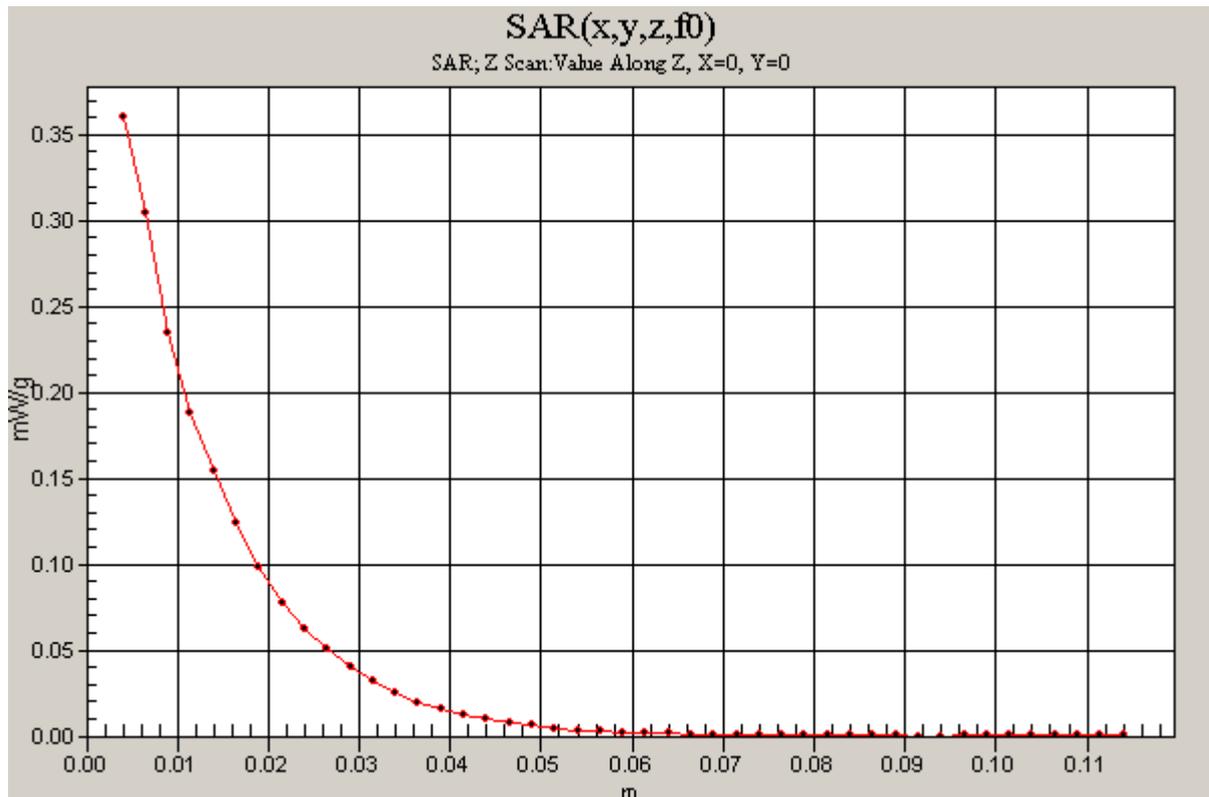
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.86, 4.86, 4.86); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Z Scan (1x1x45):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=2.5\text{mm}$

Maximum value of SAR (measured) = 0.360 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

## Body-worn 661ch (1880.0MHz) : GPRS Class 8

**DUT: Cellular Phone; Type: SH-03B; Serial: 004401112225244**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: M1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.86, 4.86, 4.86); Calibrated: 2008/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn328; Calibrated: 2009/04/22
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.295 mW/g

**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.69 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.431 W/kg

**SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.178 mW/g**

Maximum value of SAR (measured) = 0.302 mW/g

