

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/19/2011 6:27:46 PM, Date/Time: 2/19/2011 6:44:55 PM

**M580 CDMA 800 384CH Towards ground 15mm-Open with Bluetooth Headset****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 836.52 MHz

Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.959$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.92, 5.92, 5.92); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.15 mW/g

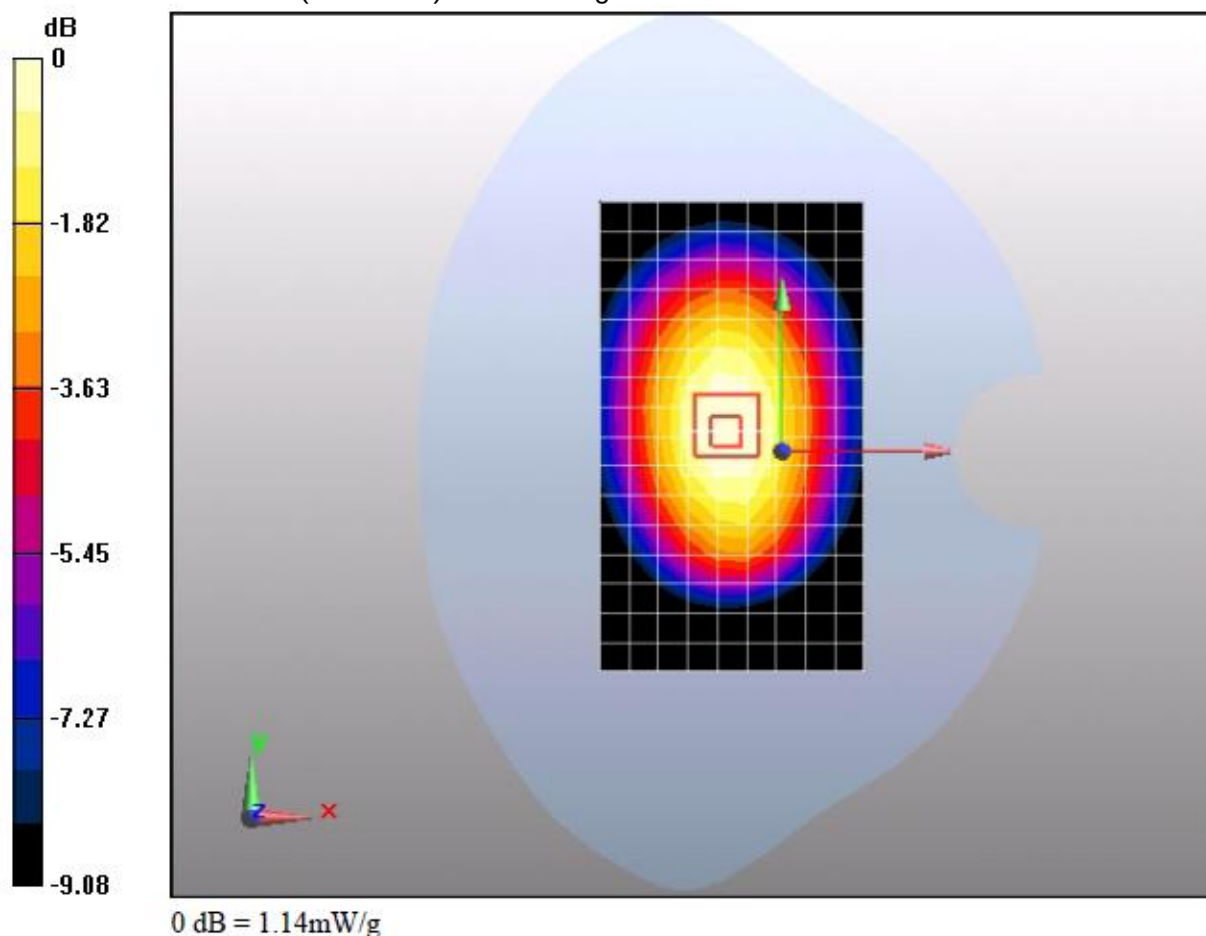
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 1.4 W/kg

**SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.785 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.14 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22°C

Test report no.: SYBH(Z-SAR)005022011-2

**Annex 2.3 CDMA1700MHz Head**

Date/Time: 2/18/2011 11:45:48 AM, Date/Time: 2/18/2011 11:53:24 AM

**M580 CDMA AWS 450CH Left hand touch check-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.948 mW/g

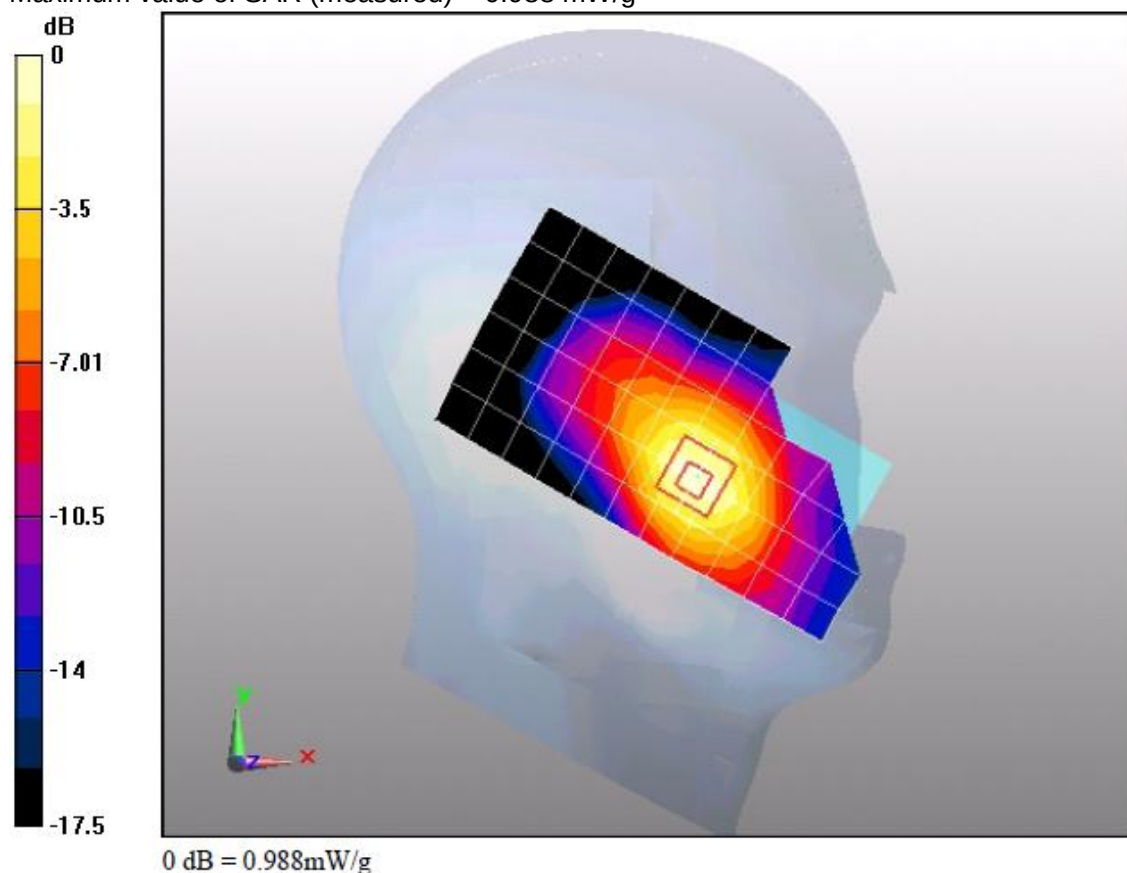
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.17 V/m; Power Drift = 0.00386 dB

Peak SAR (extrapolated) = 1.46 W/kg

**SAR(1 g) = 0.912 mW/g; SAR(10 g) = 0.541 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.988 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 2:09:18 PM, Date/Time: 2/18/2011 2:24:57 PM

**M580 CDMA AWS 450CH Left hand tilt 15 degree-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x19x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.372 mW/g

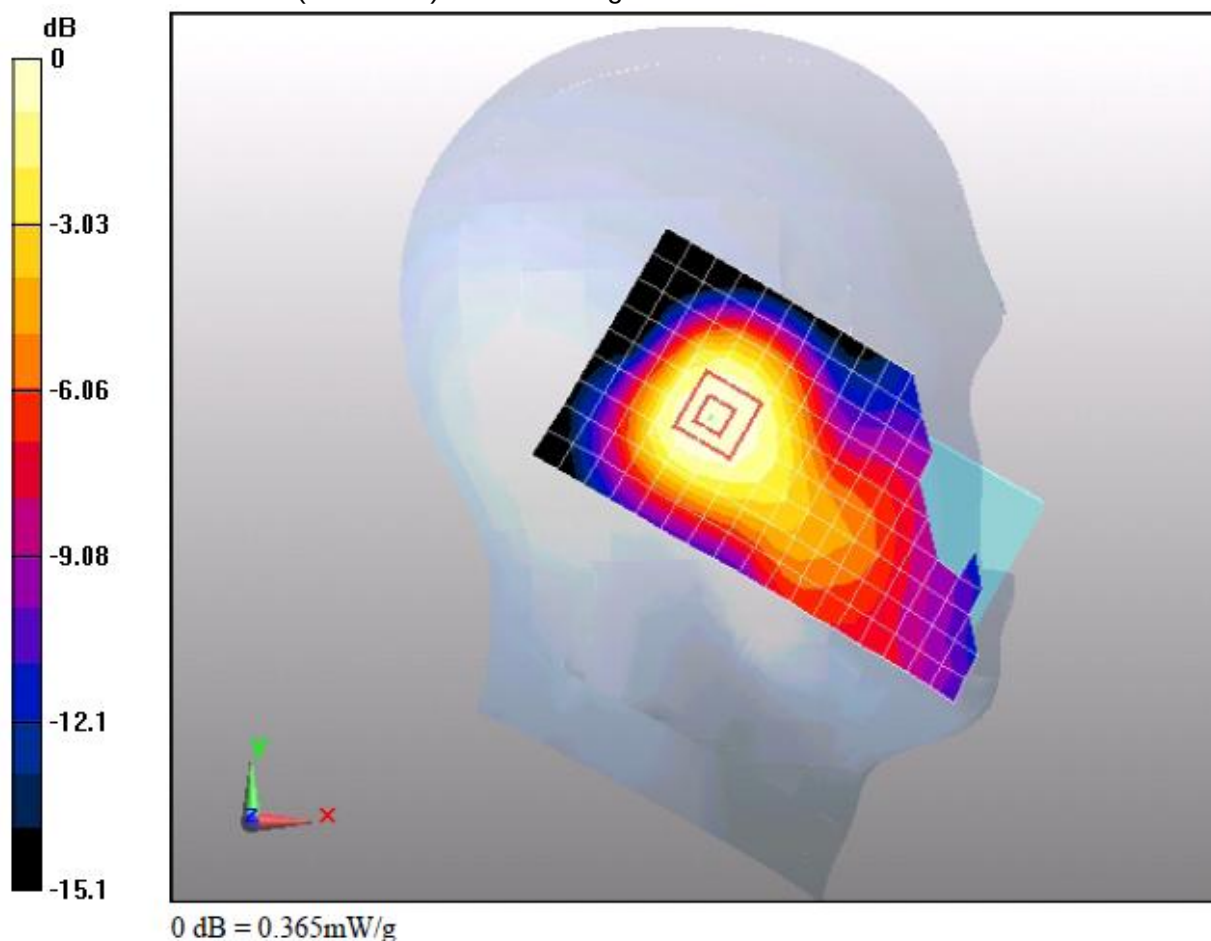
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = -0.149 dB

Peak SAR (extrapolated) = 0.507 W/kg

**SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.227 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.365 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 9:37:39 AM, Date/Time: 2/18/2011 9:44:41 AM

**M580 CDMA AWS 450CH Left hand touch check-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.990 mW/g

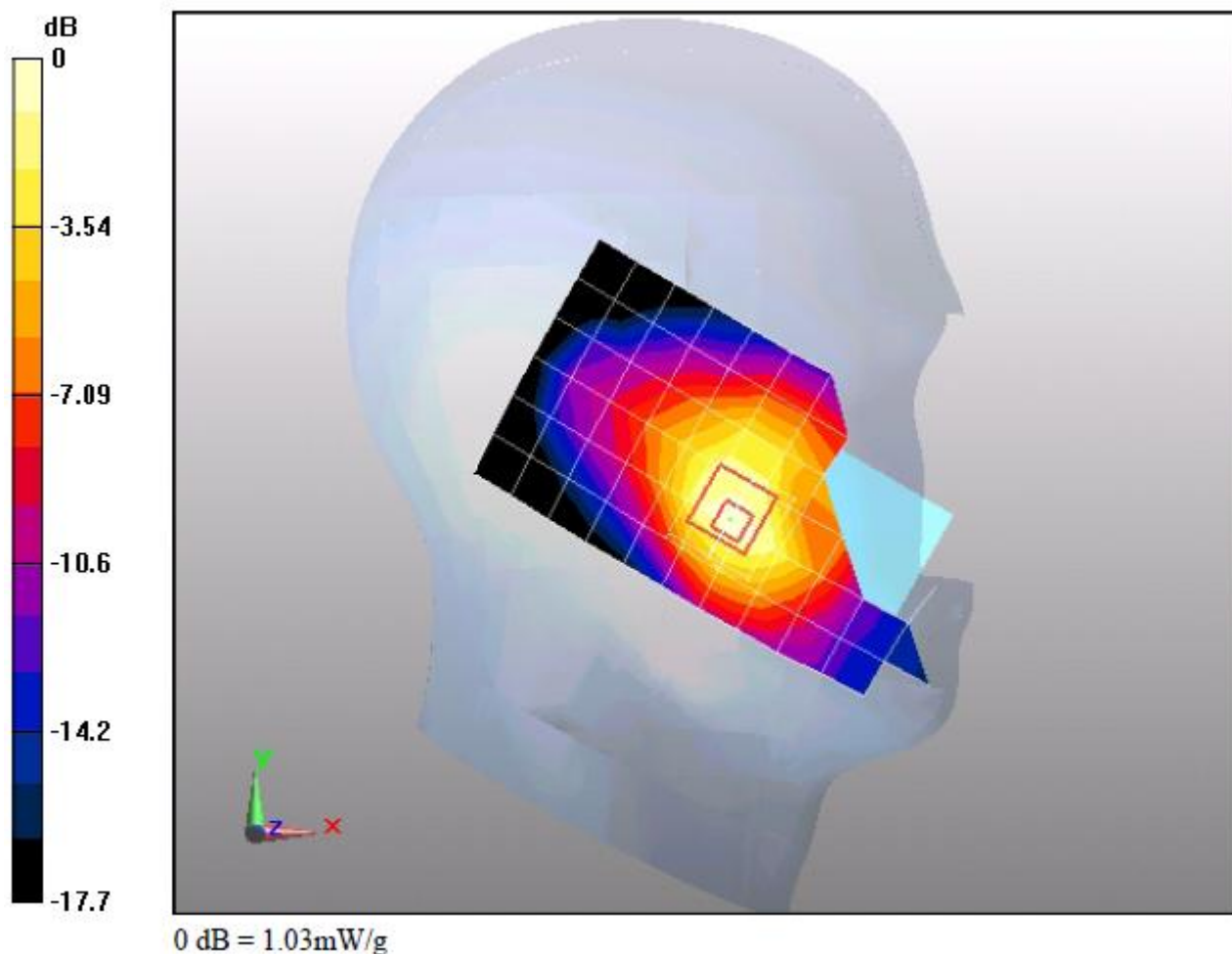
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.31 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 1.5 W/kg

**SAR(1 g) = 0.927 mW/g; SAR(10 g) = 0.549 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.03 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C



Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 11:08:59 AM, Date/Time: 2/18/2011 11:24:22 AM

**M580 CDMA AWS 450CH Left hand tilt 15 degree-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.375 mW/g

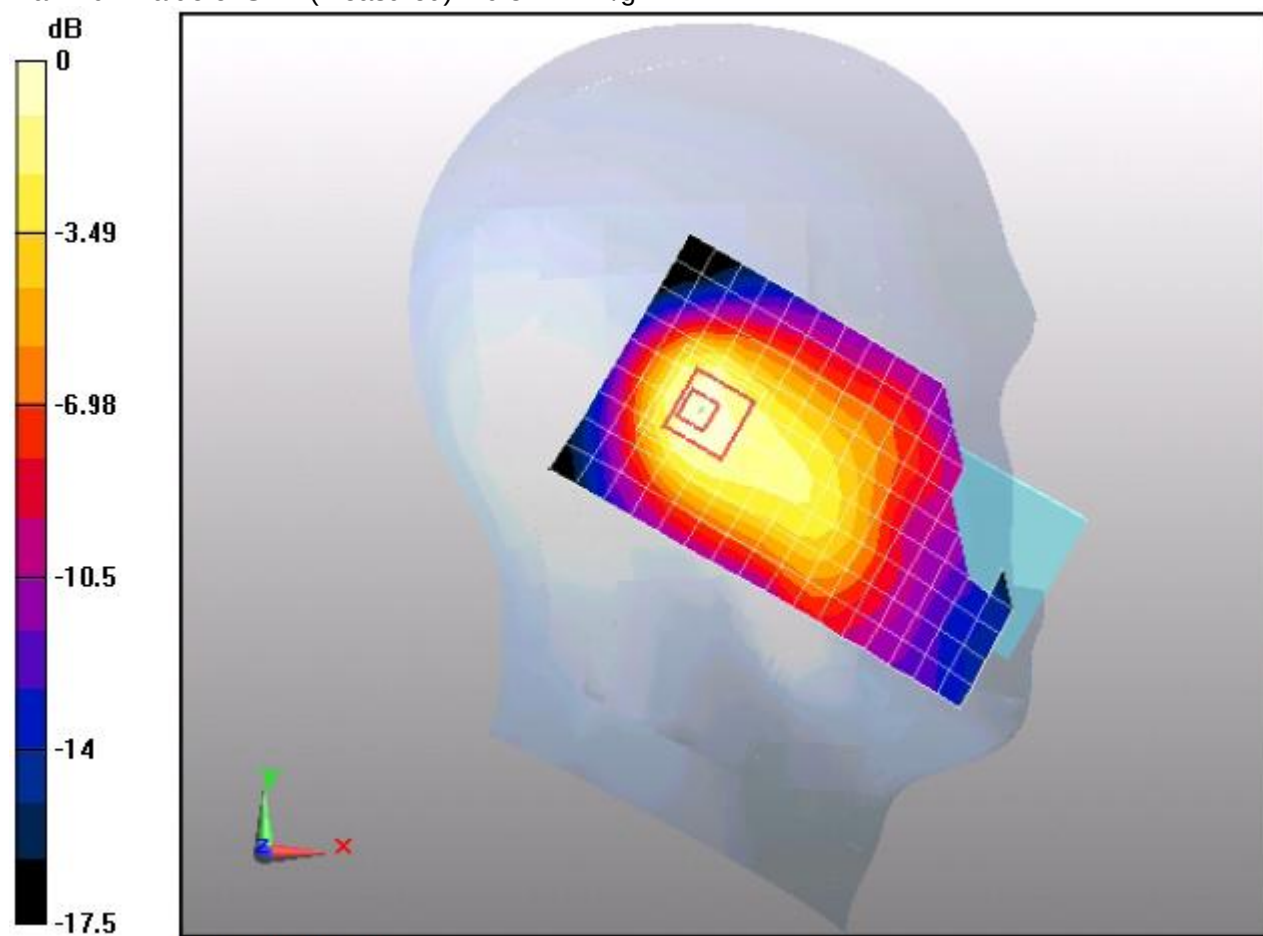
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.540 W/kg

**SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.207 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.374 mW/g



0 dB = 0.374mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/19/2011 1:38:09 AM, Date/Time: 2/19/2011 1:45:01 AM

**M580 CDMA AWS 450CH right hand touch check-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.614 mW/g

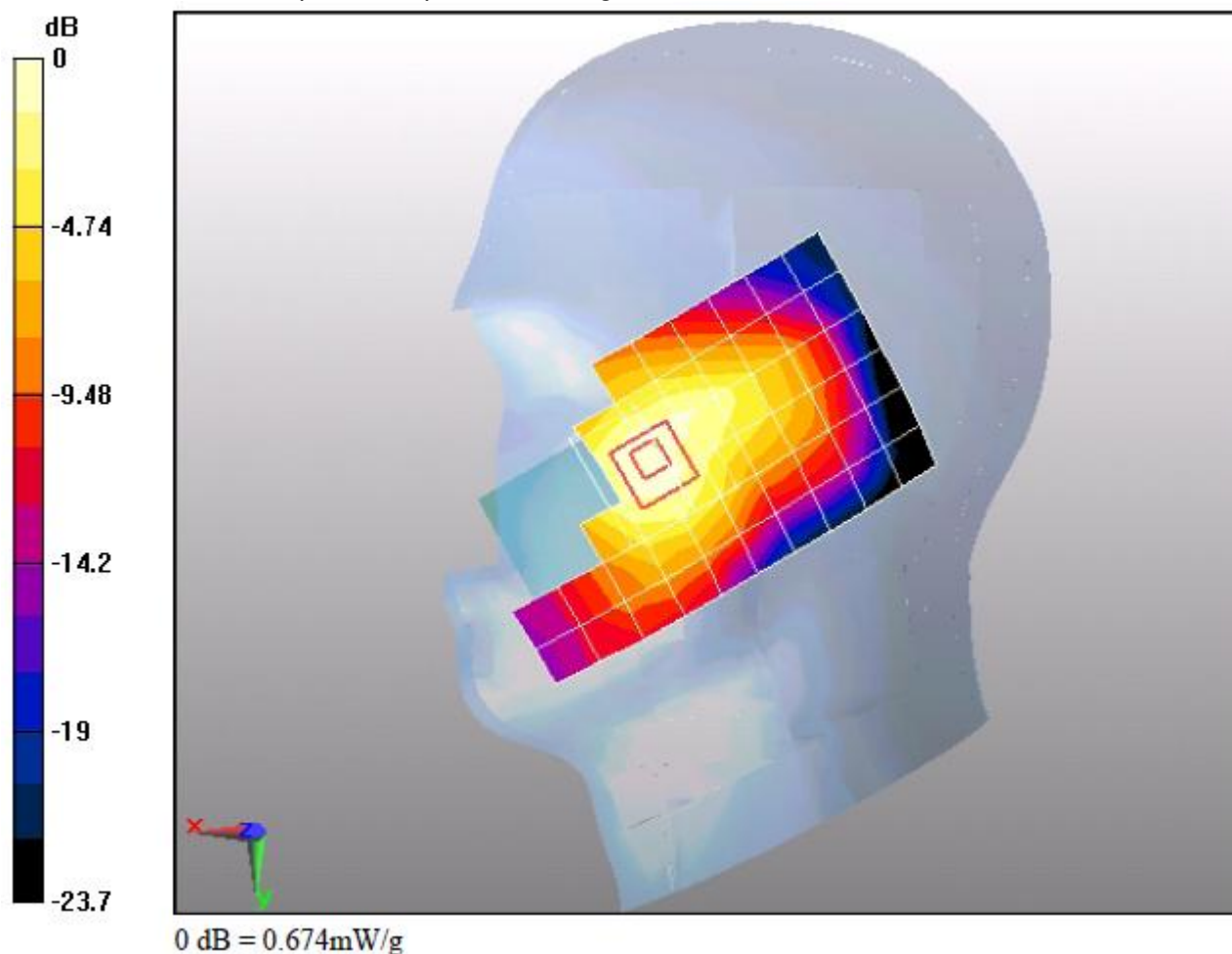
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.22 V/m; Power Drift = -0.00369 dB

Peak SAR (extrapolated) = 0.968 W/kg

**SAR(1 g) = 0.633 mW/g; SAR(10 g) = 0.395 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.674 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/19/2011 12:58:05 AM, Date/Time: 2/19/2011 1:04:56 AM

**M580 CDMA AWS 450CH right hand tilt 15 degree-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.497 mW/g

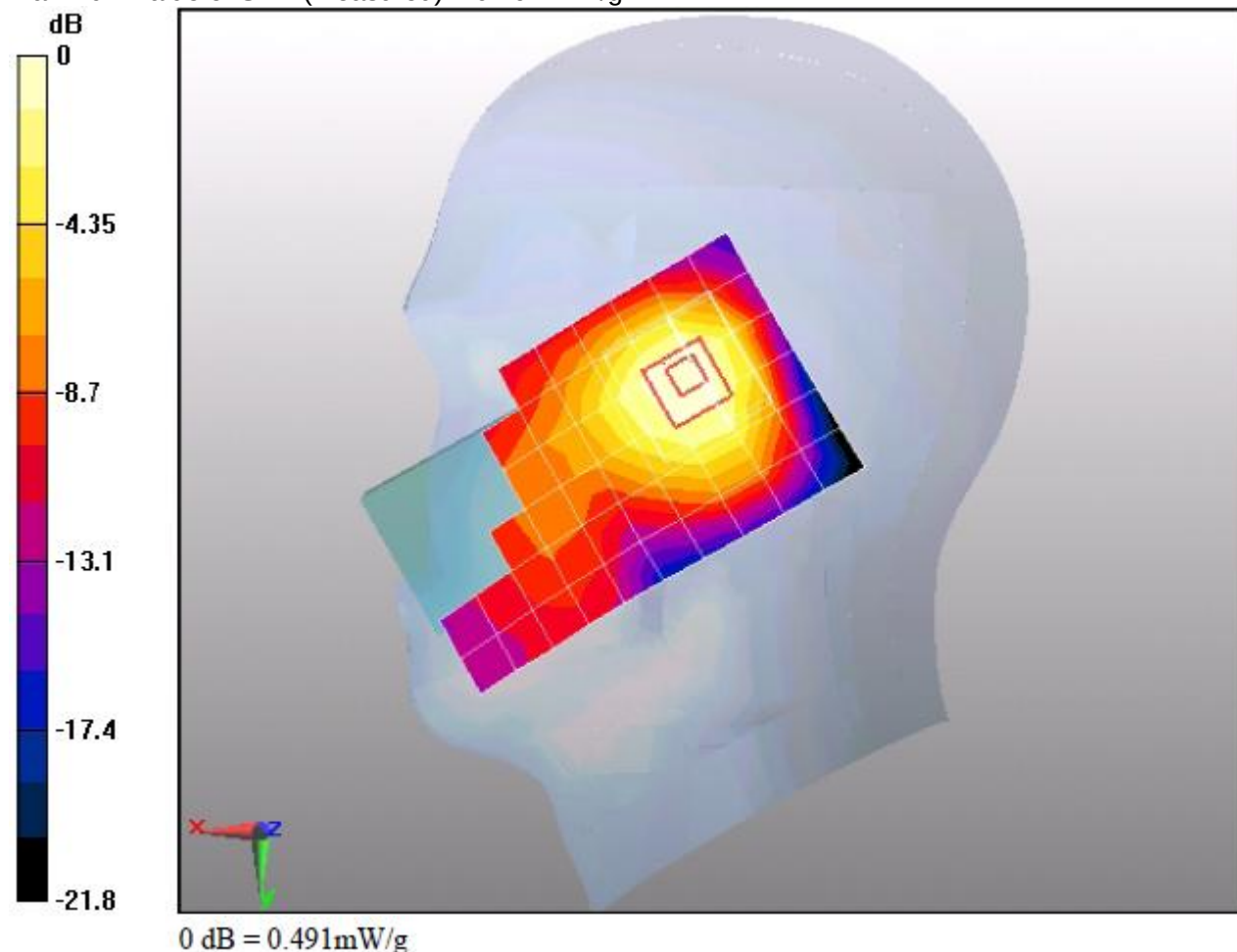
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.1 V/m; Power Drift = -0.126 dB

Peak SAR (extrapolated) = 0.756 W/kg

**SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.291 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.491 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 11:34:18 PM, Date/Time: 2/18/2011 11:40:50 PM

**M580 CDMA AWS 450CH right hand touch cheek-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.609 mW/g

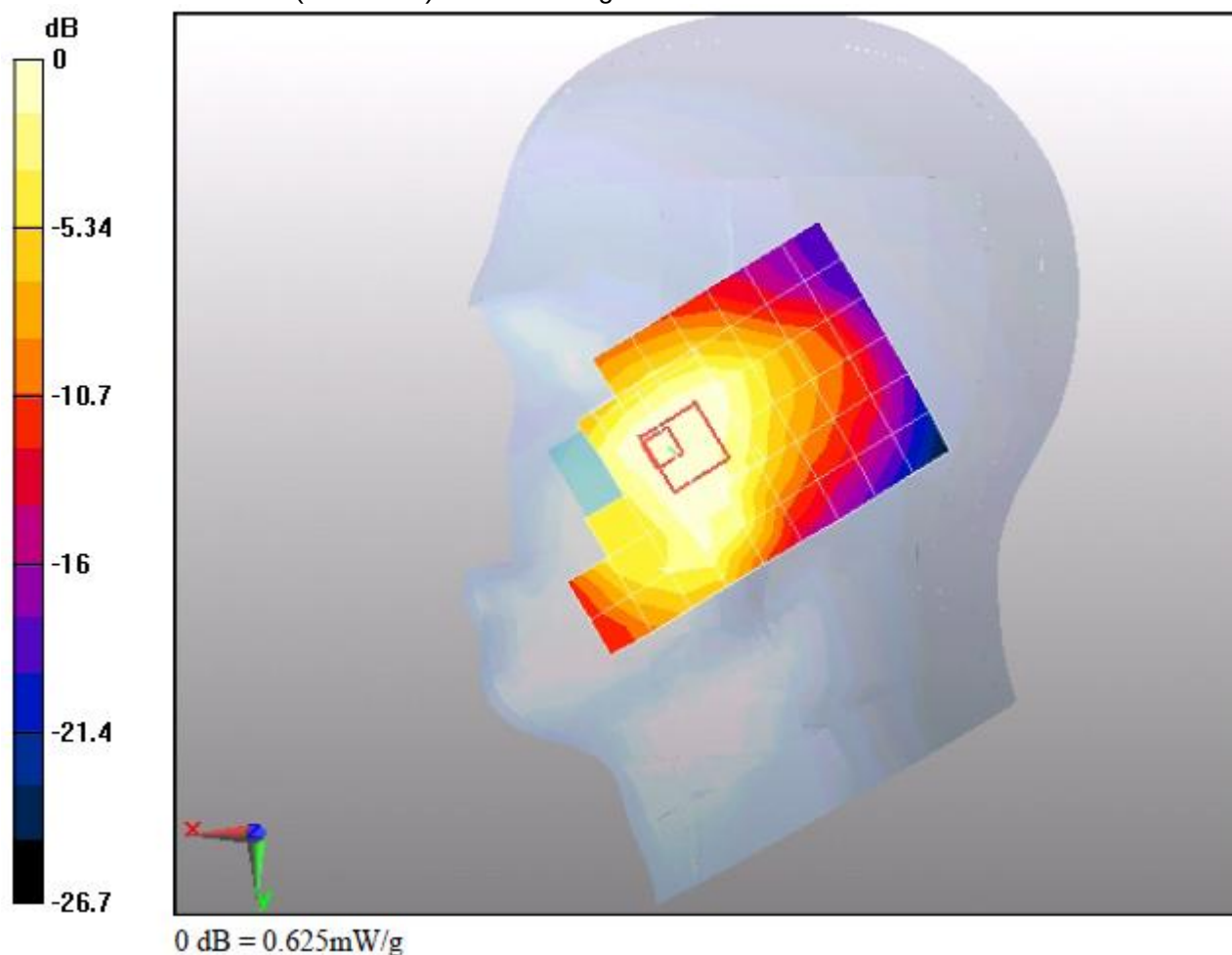
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.19 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.954 W/kg

**SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.396 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.625 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C



Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/19/2011 00:11:18 AM, Date/Time: 2/19/2011 00:17:57 AM

**M580 CDMA AWS 450CH right hand tilt 15 degree-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.355 mW/g

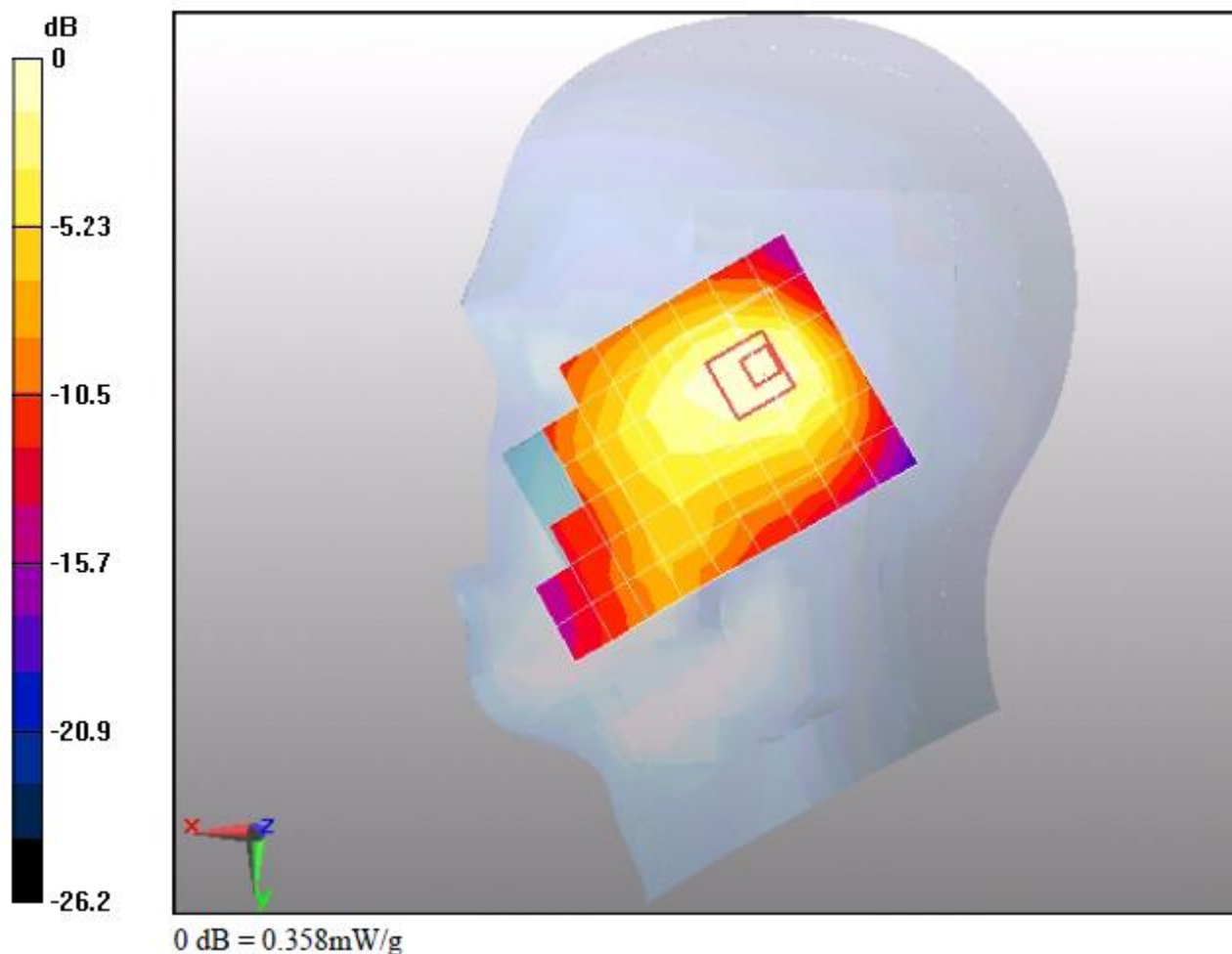
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.565 W/kg

**SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.213 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/19/2011 3:30:38 AM, Date/Time: 2/19/2011 3:37:38 AM

**M580 CDMA AWS 850CH Left hand touch check-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1752.5 MHz

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

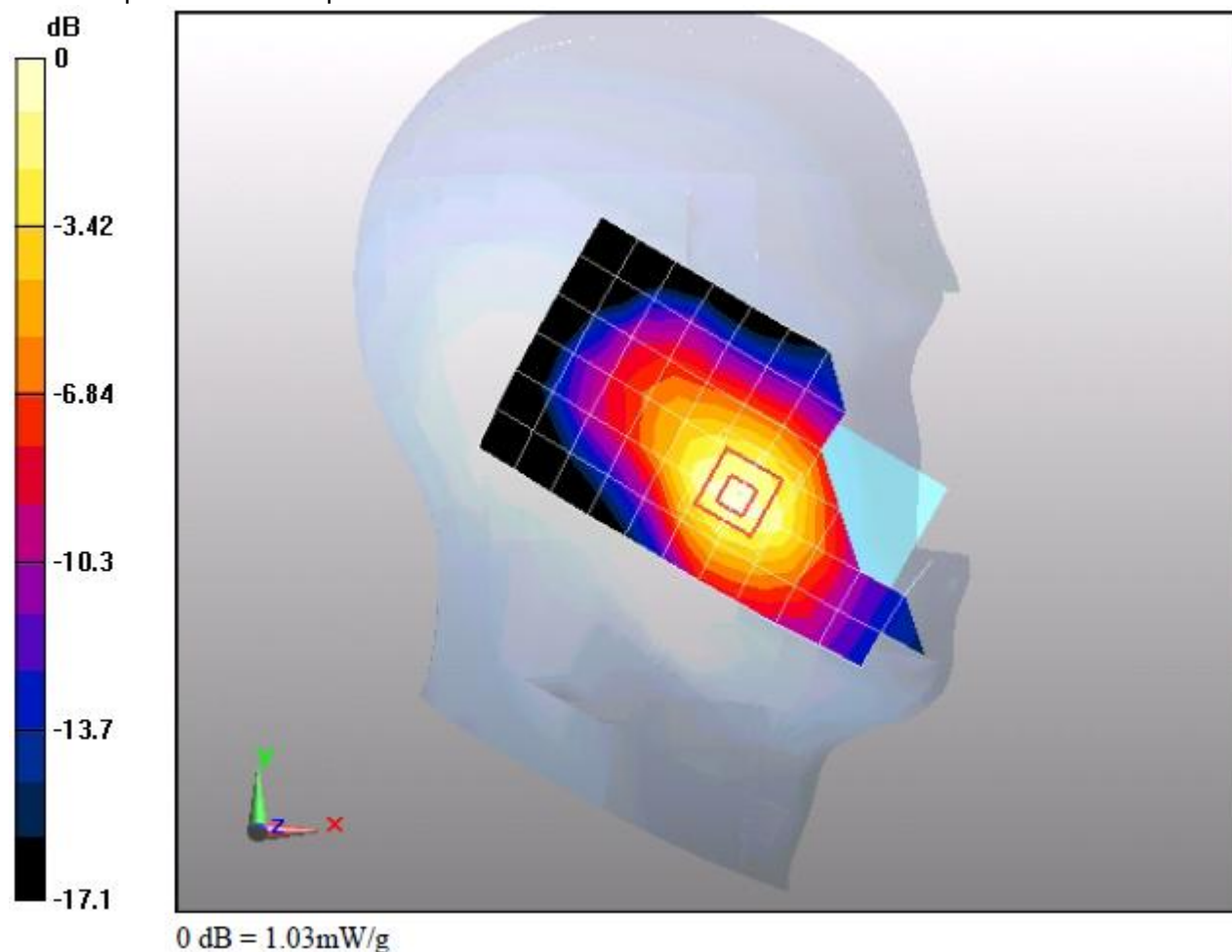
**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.03 mW/g

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.9 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.940 mW/g; SAR(10 g) = 0.557 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/19/2011 3:08:47 AM, Date/Time: 2/19/2011 3:15:45 AM

**M580 CDMA AWS 25CH Left hand touch check-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1711.25 MHz

Medium parameters used (interpolated):  $f = 1711.25$  MHz;  $\sigma = 1.35$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.940 mW/g

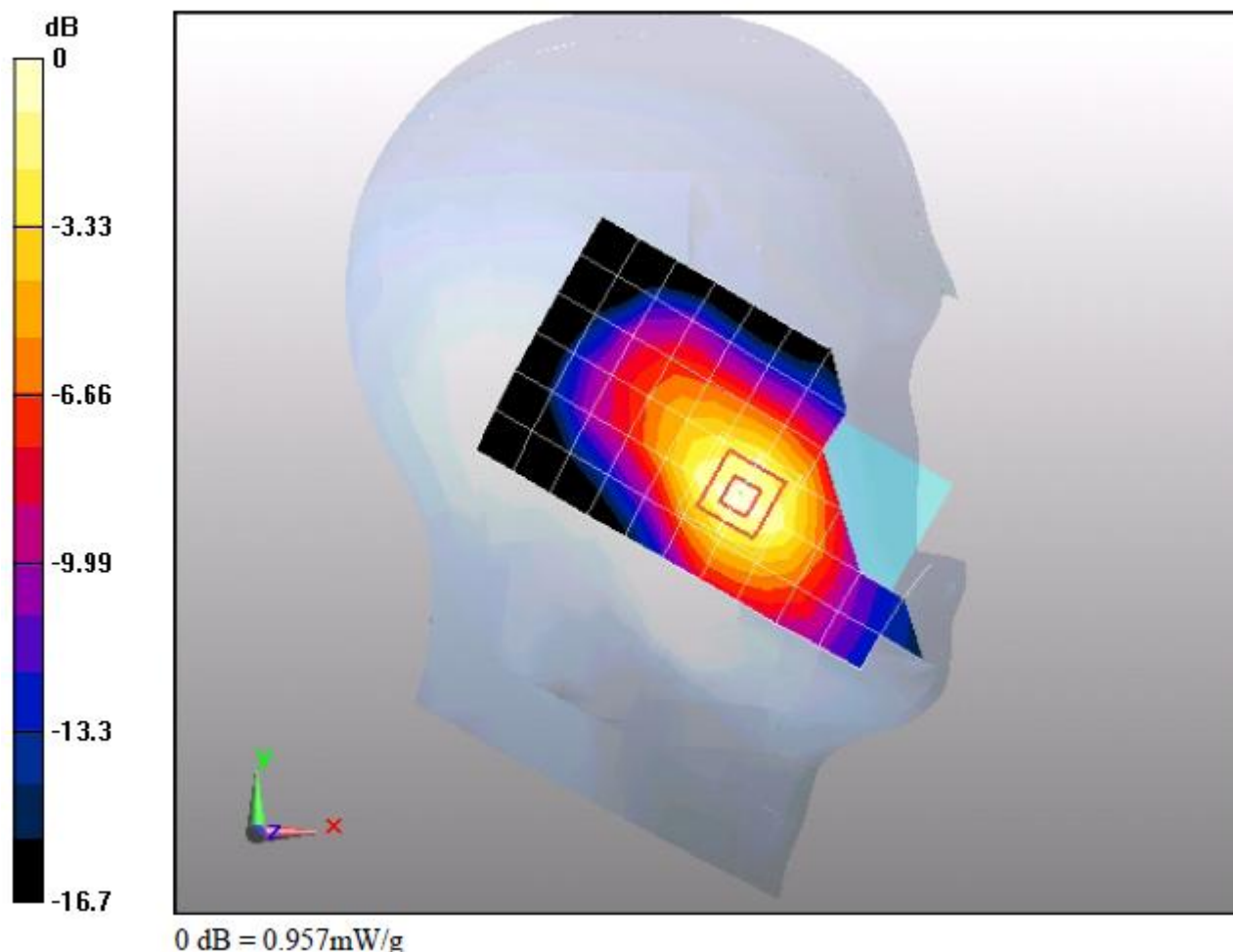
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.39 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 1.4 W/kg

**SAR(1 g) = 0.875 mW/g; SAR(10 g) = 0.520 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.957 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/19/2011 2:04:48 AM, Date/Time: 2/19/2011 2:11:15 AM

**M580 CDMA AWS 850CH Left hand touch check-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1752.5 MHz

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.17 mW/g

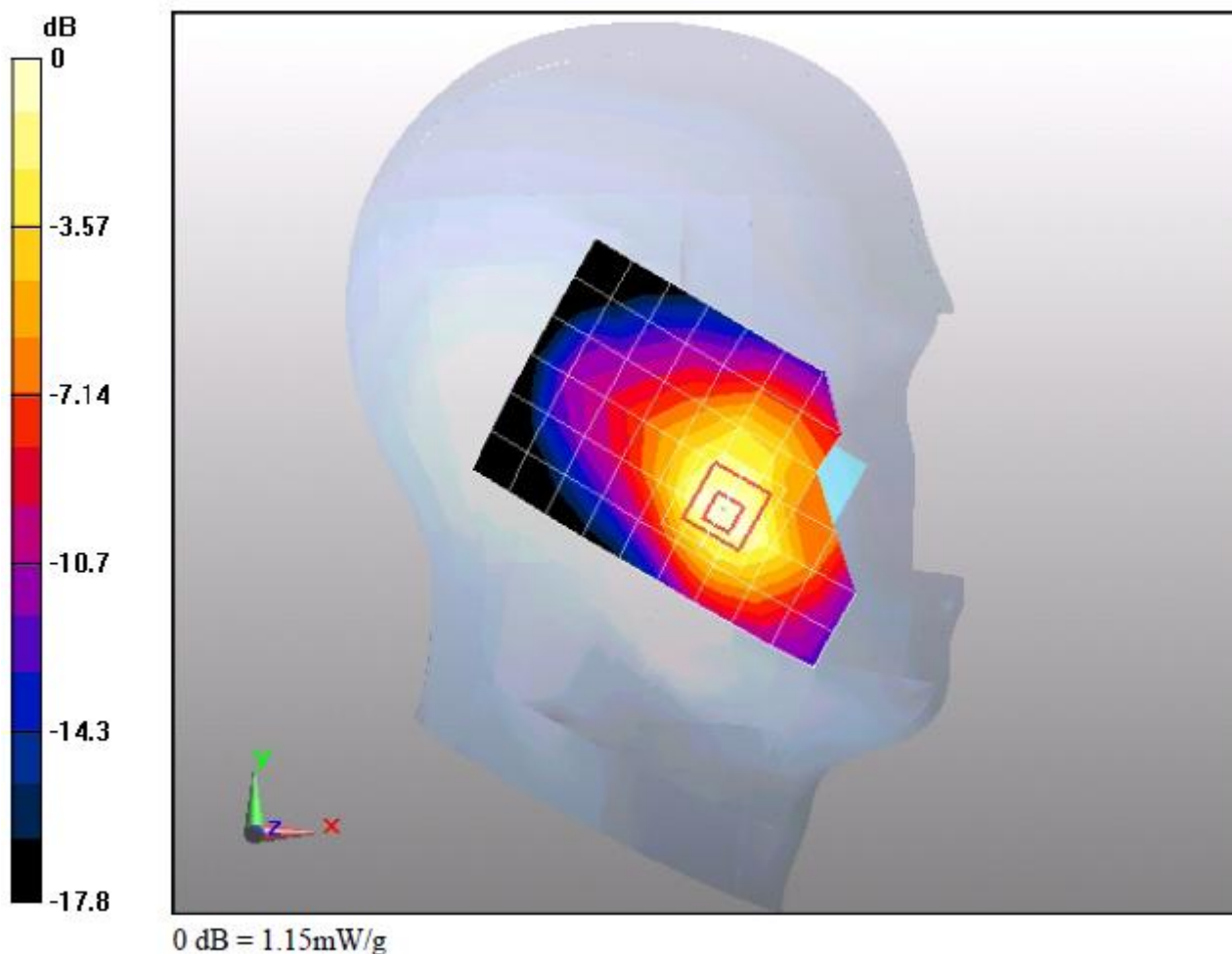
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.87 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.619 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.15 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C



Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/19/2011 2:42:24 AM, Date/Time: 2/19/2011 2:48:50 AM

**M580 CDMA AWS 25CH Left hand touch check-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1711.25 MHz

Medium parameters used (interpolated):  $f = 1711.25$  MHz;  $\sigma = 1.35$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(5.12, 5.12, 5.12); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM2; Type: SAM; Serial: TP-1474

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.927 mW/g

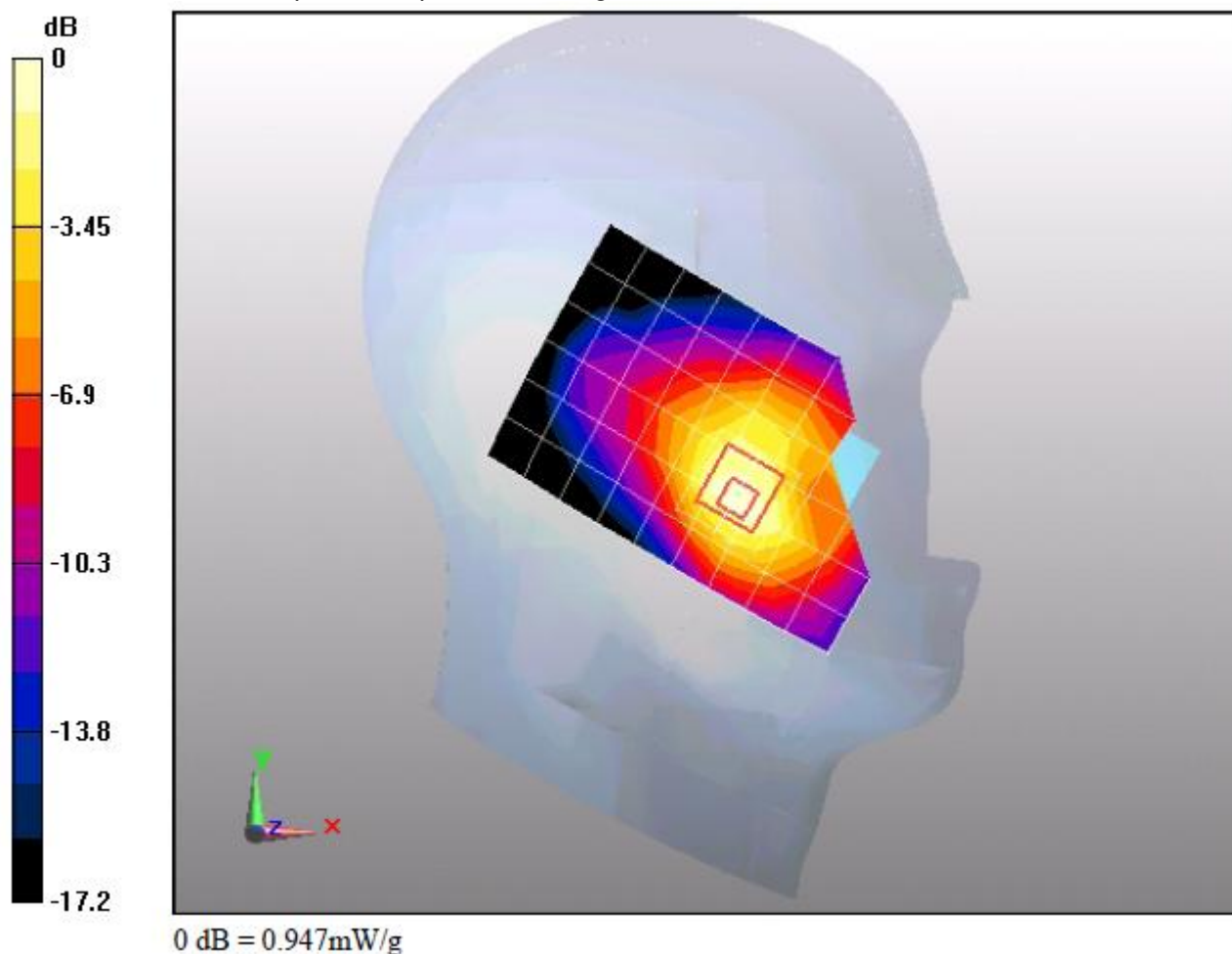
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.8 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.862 mW/g; SAR(10 g) = 0.514 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.947 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

**Annex 2.4 CDMA1700MHz Body**

Date/Time: 2/18/2011 5:40:38 PM, Date/Time: 2/18/2011 5:51:02 PM

**M580 CDMA1700 450CH Towards phantom 15mm-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.459 mW/g

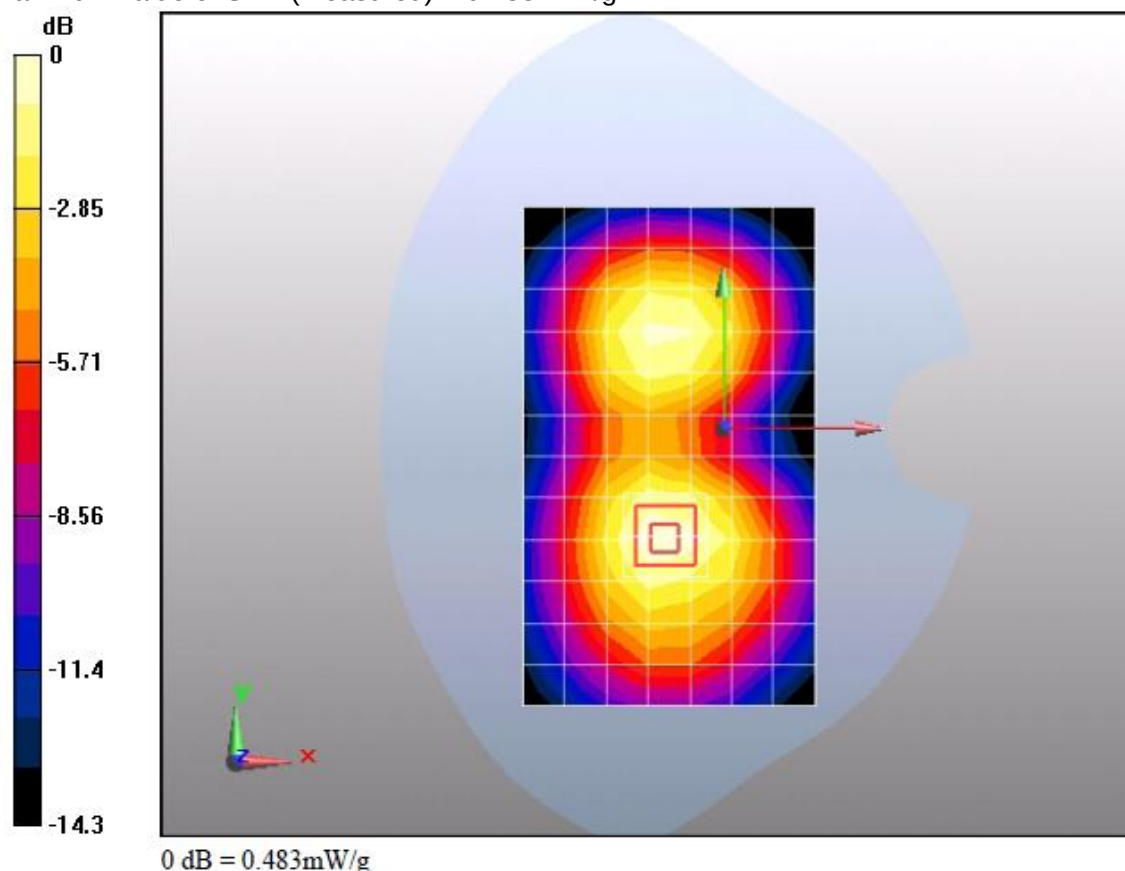
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 0.681 W/kg

**SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.284 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.483 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 4:33:33 PM, Date/Time: 2/18/2011 4:42:55 PM

**M580 CDMA1700 450CH Towards phantom 15mm-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.224 mW/g

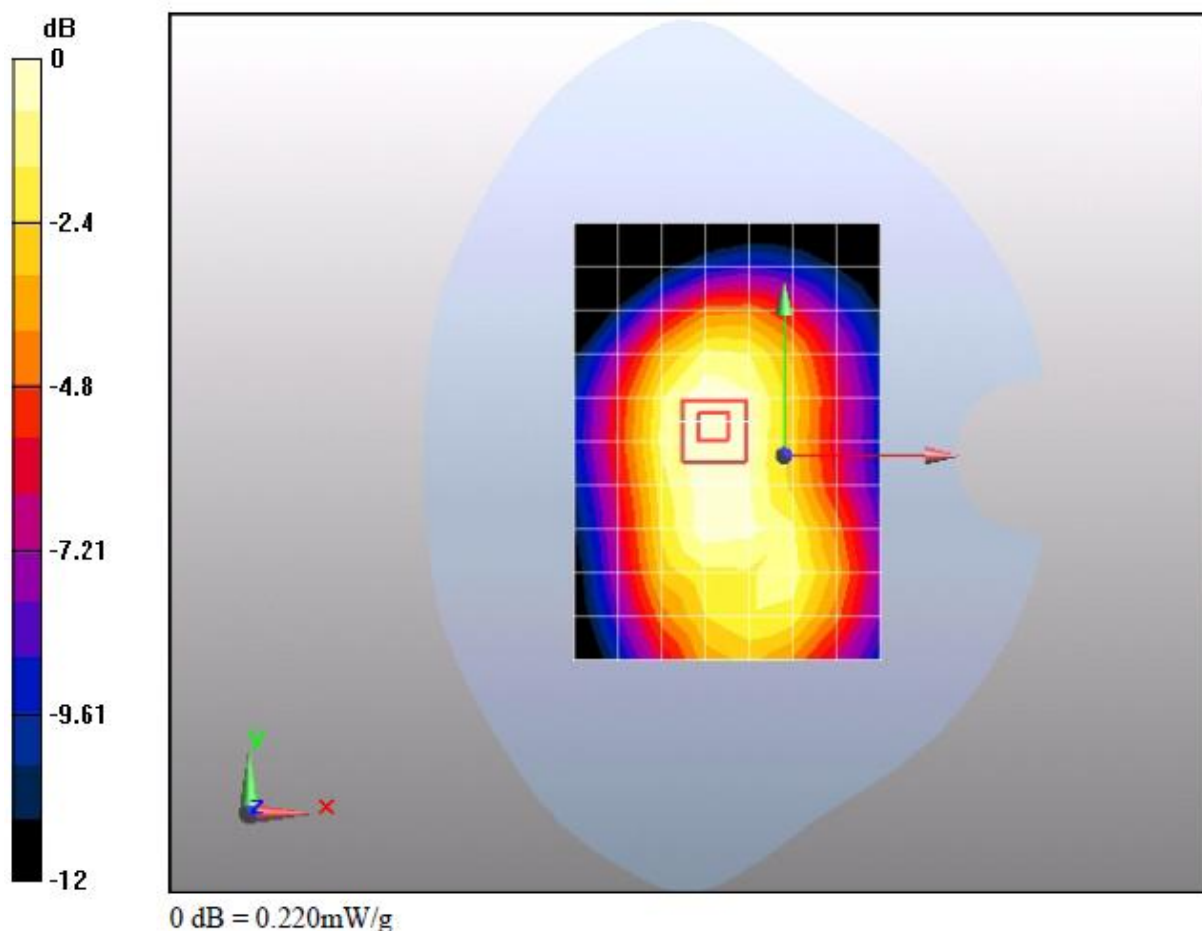
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 0.300 W/kg

**SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.137 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.220 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 7:15:42 PM, Date/Time: 2/18/2011 7:32:36 PM

**M580 CDMA1700 450CH Towards ground 15mm-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.775 mW/g

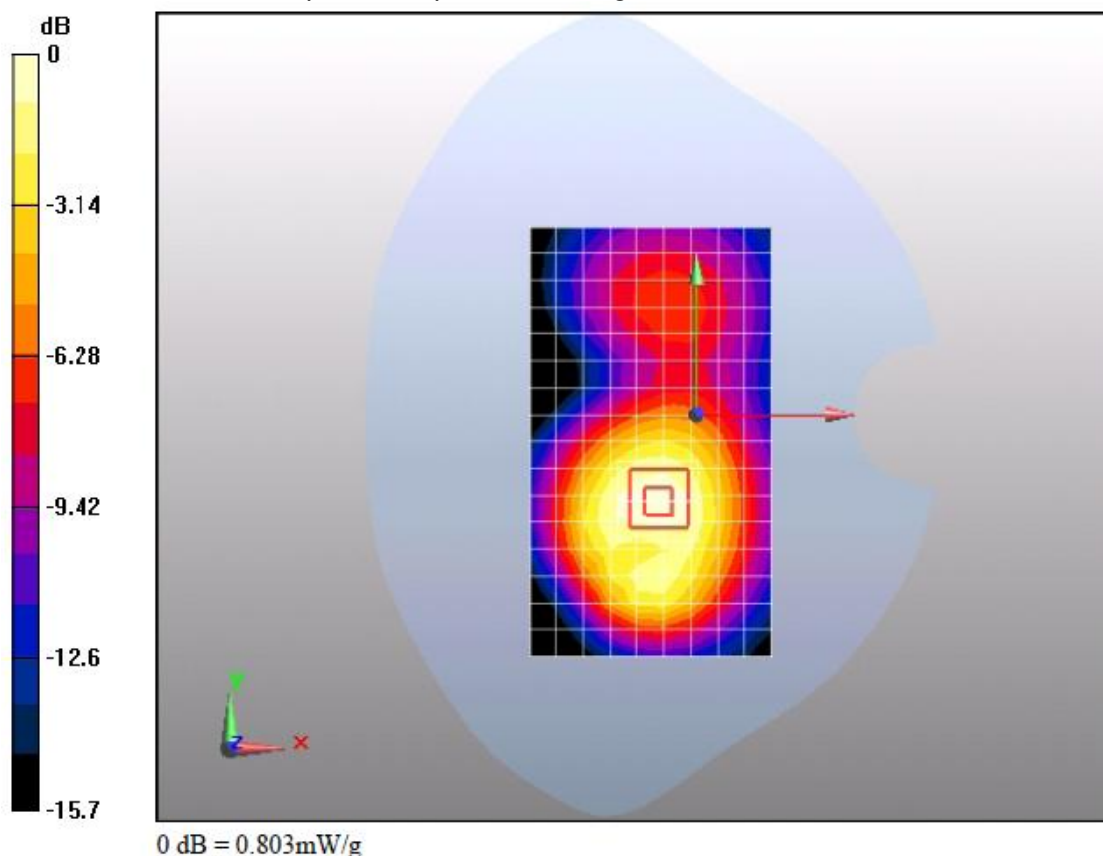
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.00504 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.746 mW/g; SAR(10 g) = 0.464 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C



Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 6:41:19 PM, Date/Time: 2/18/2011 6:58:13 PM

**M580 CDMA1700 450CH Towards ground 15mm-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

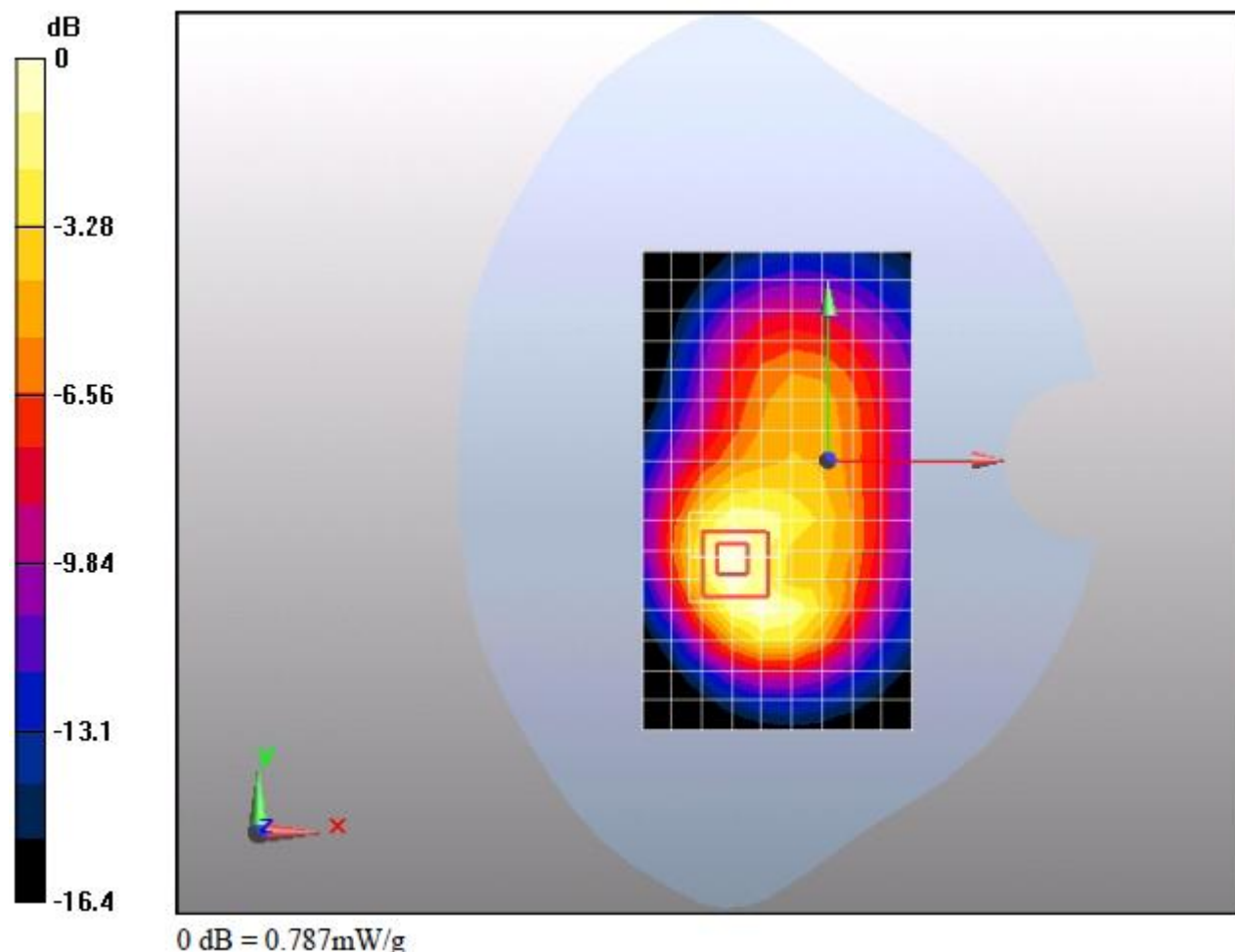
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.2 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.709 mW/g; SAR(10 g) = 0.397 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.787 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 8:19:47 PM, Date/Time: 2/18/2011 8:28:11 PM

**M580 CDMA1700 850CH Towards ground 15mm-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1752.5 MHz

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.860 mW/g

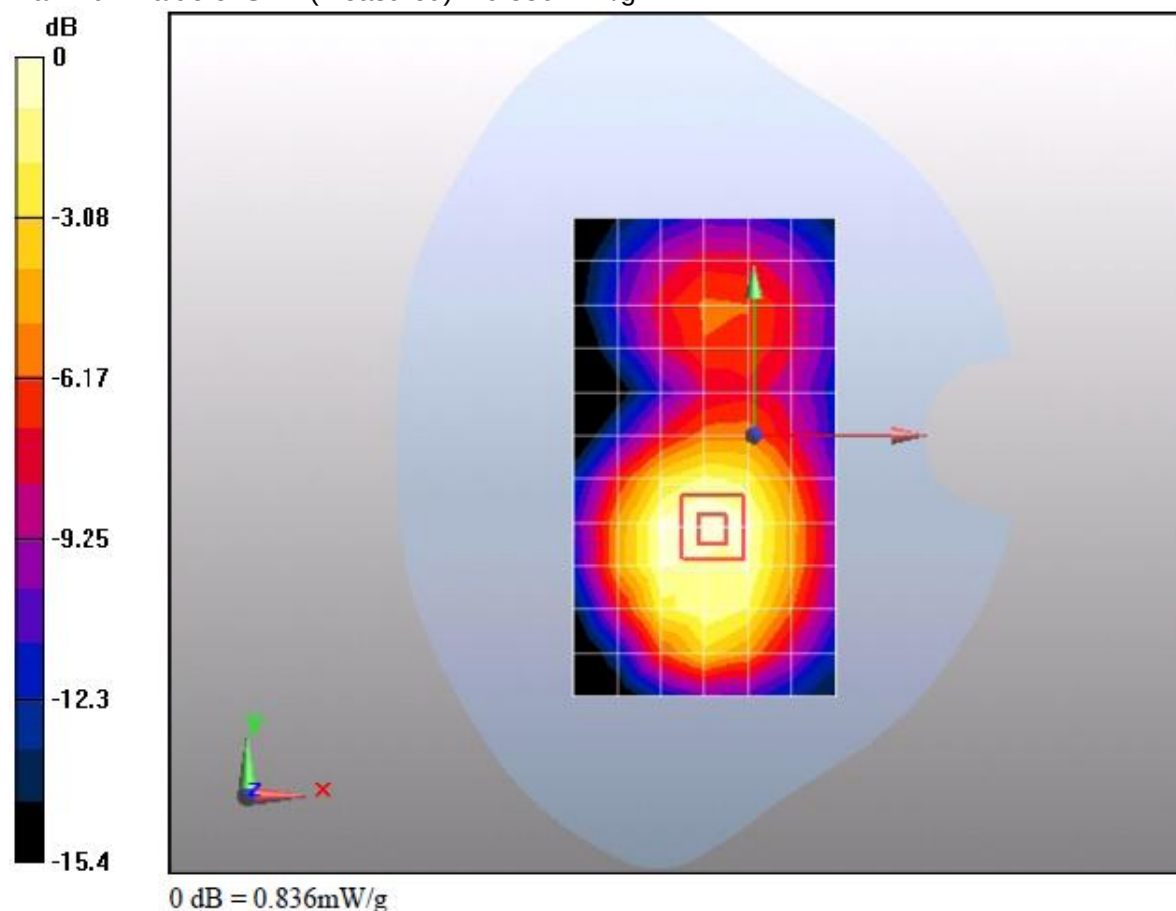
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.485 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.836 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 8:46:56 PM, Date/Time: 2/18/2011 9:00:45 PM

**M580 CDMA1700 25CH Towards ground 15mm-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1711.25 MHz

Medium parameters used (interpolated):  $f = 1711.25$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.731 mW/g

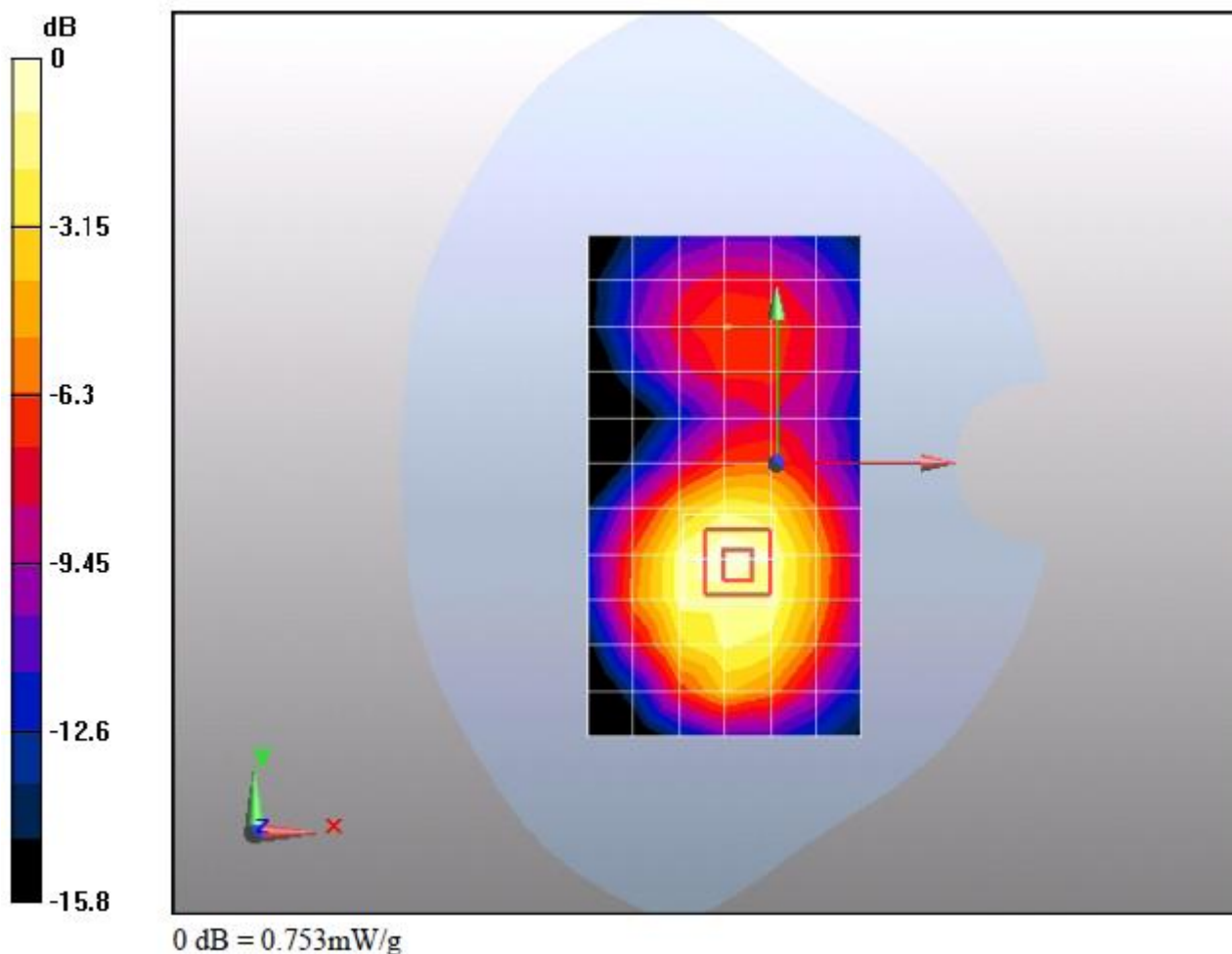
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.705 mW/g; SAR(10 g) = 0.439 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.753 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 9:28:30 PM, Date/Time: 2/18/2011 9:36:54 PM

**M580 CDMA1700 850CH Towards ground 15mm-Open with Headset****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1752.5 MHz

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.806 mW/g

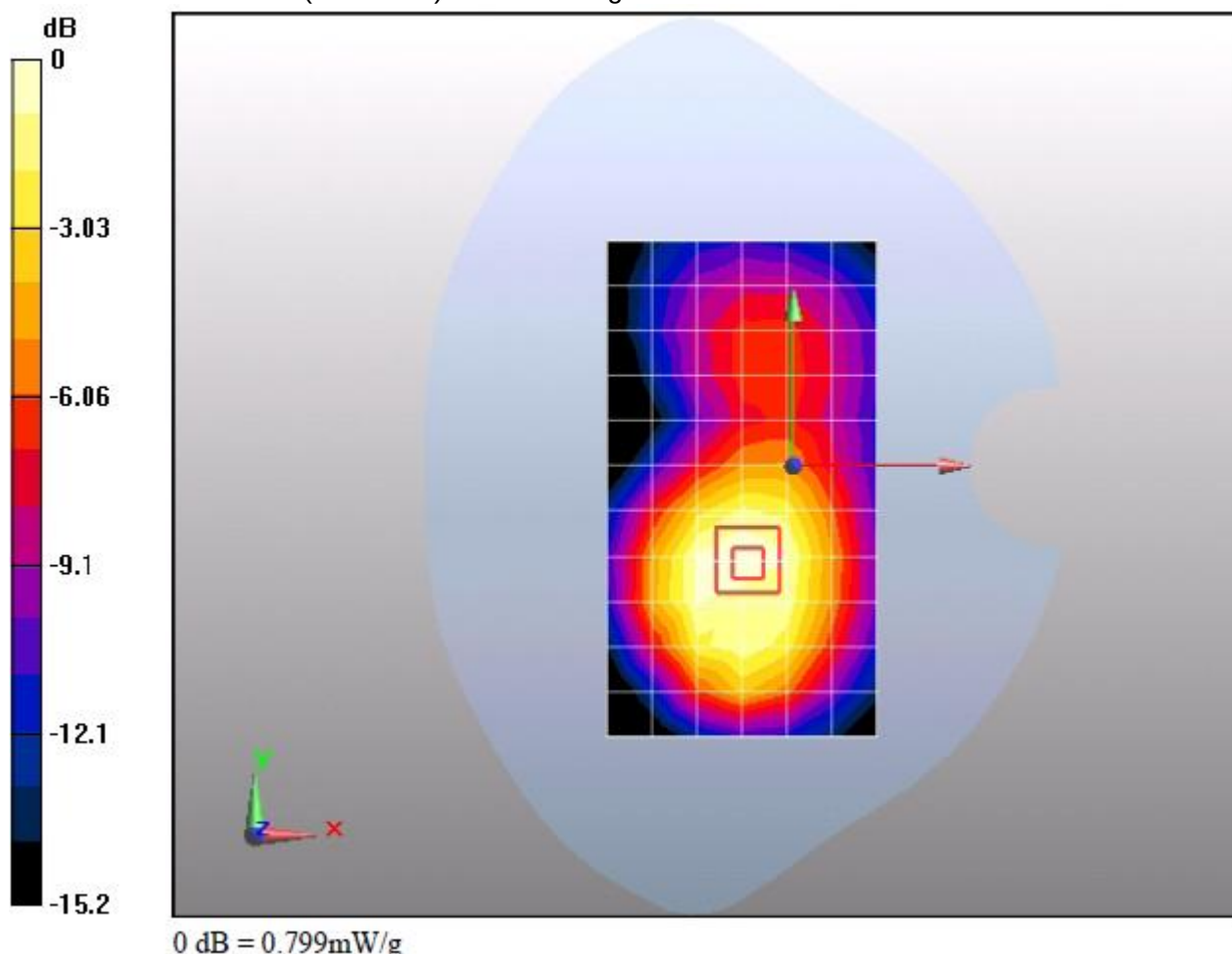
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.736 mW/g; SAR(10 g) = 0.458 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.799 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 10:01:17 PM, Date/Time: 2/18/2011 10:09:42 PM

**M580 CDMA1700 850CH Towards ground 15mm-Open with Bluetooth Headset****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1752.5 MHz

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.806 mW/g

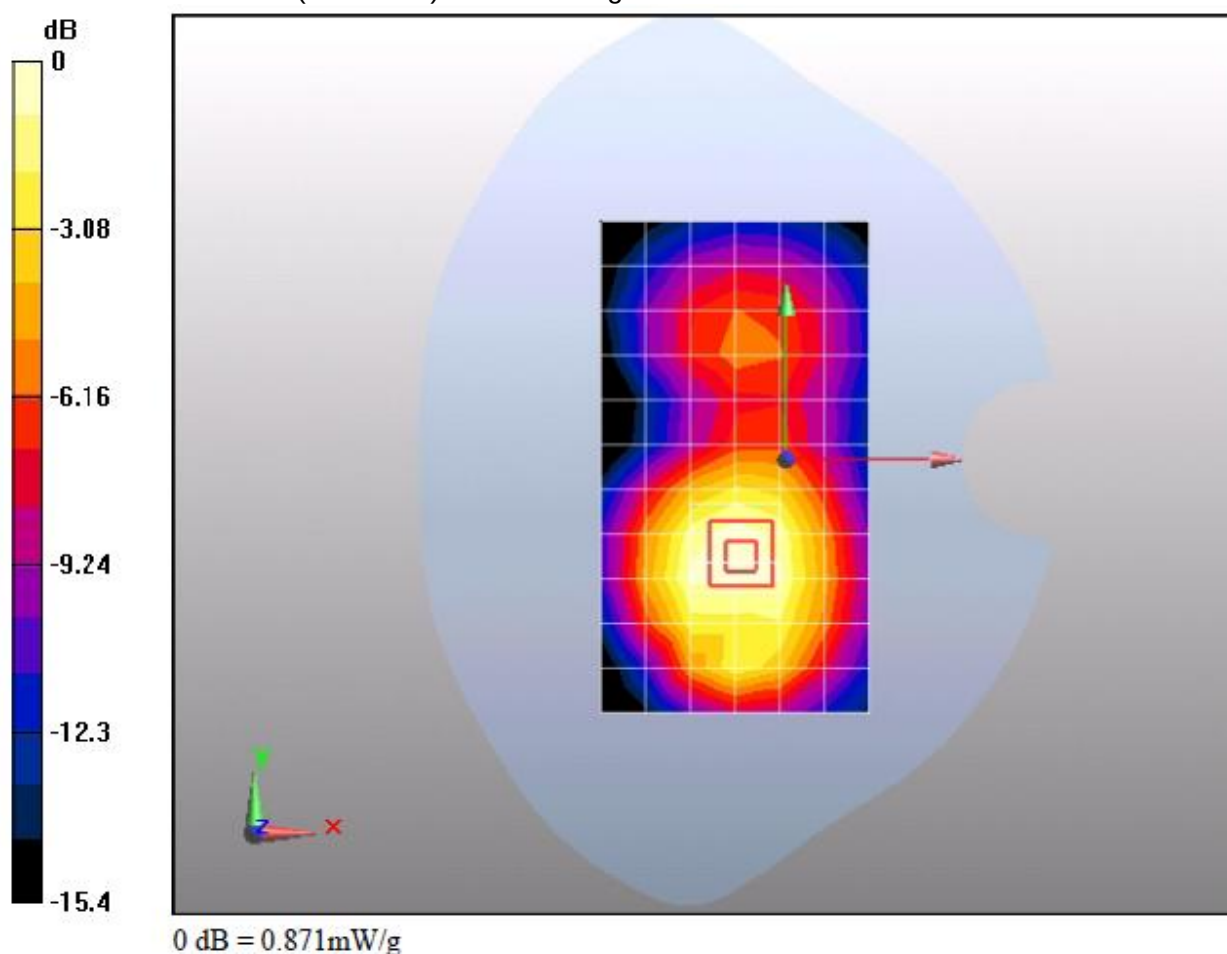
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.816 mW/g; SAR(10 g) = 0.509 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.871 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C



Test report no.: SYBH(Z-SAR)005022011-2

**Annex 2.5 CDMA1900MHz Head**

Date/Time: 2/17/2011 2:14:06 PM, Date/Time: 2/17/2011 2:29:16 PM

**M580 CDMA 1900 600CH Left hand touch cheek-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.11 mW/g

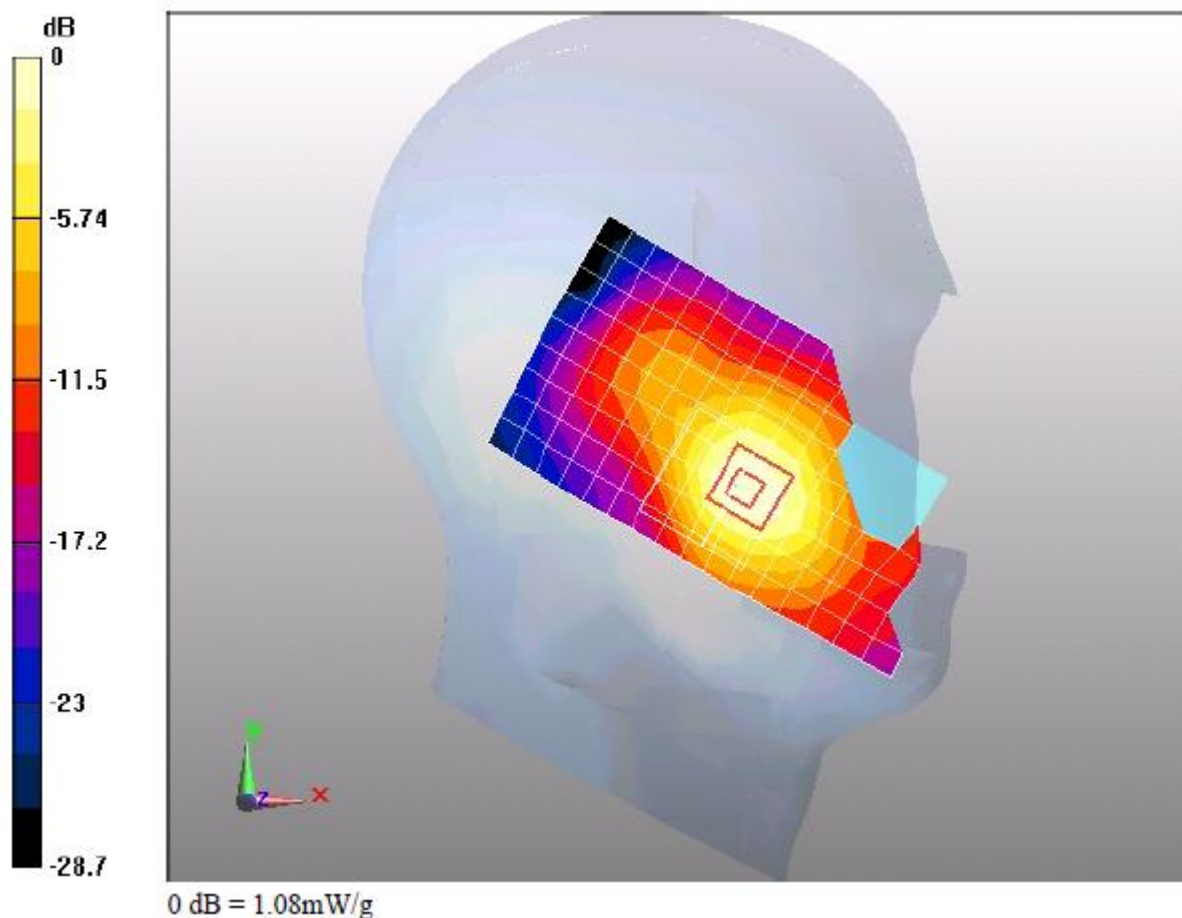
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.09 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 1.63 W/kg

**SAR(1 g) = 0.989 mW/g; SAR(10 g) = 0.559 mW/g**

Maximum value of SAR (measured) = 1.08 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

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Test report no.: SYBH(Z-SAR)005022011-2

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Date/Time: 2/17/2011 2:45:46 PM, Date/Time: 2/17/2011 3:01:00 PM

**M580 CDMA 1900 600CH Left hand tilt 15 degree-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.353 mW/g

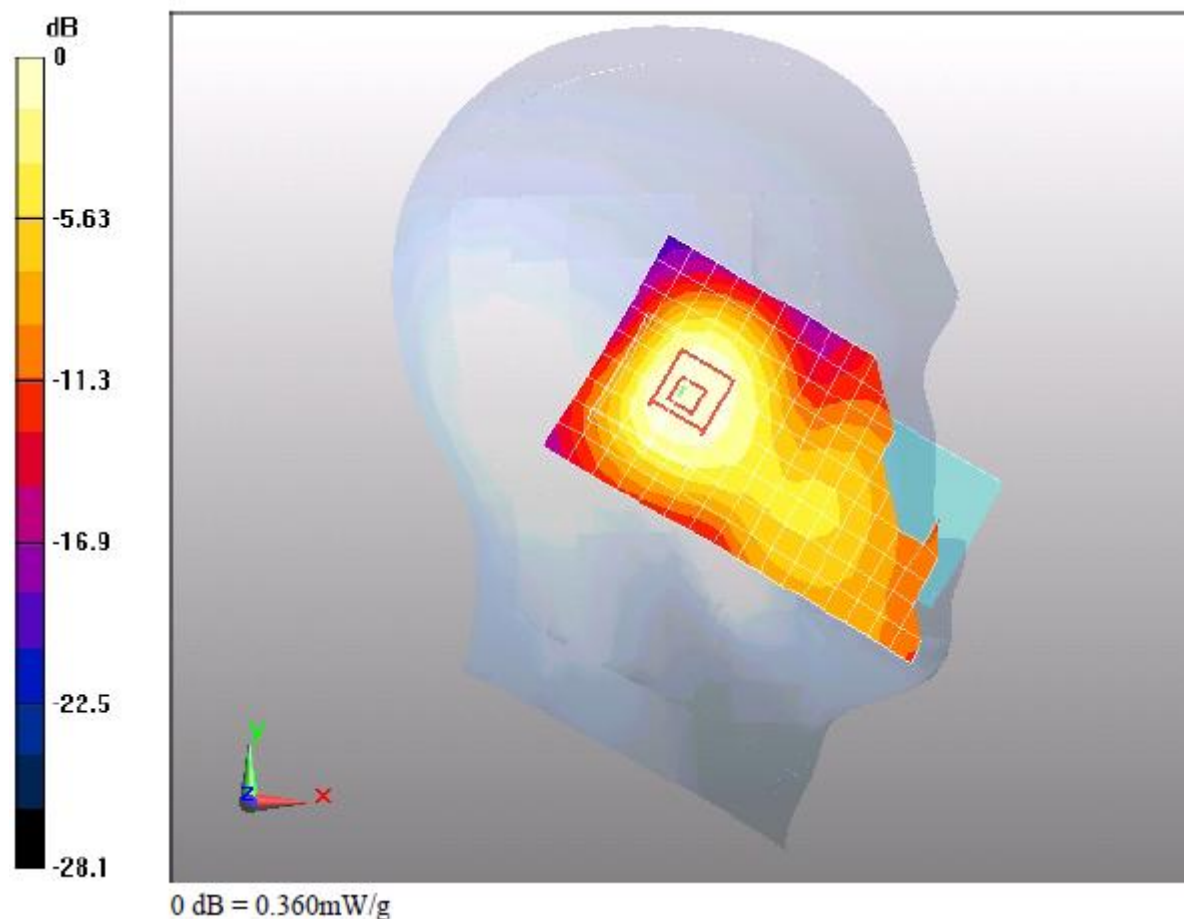
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = -0.00185 dB

Peak SAR (extrapolated) = 0.505 W/kg

**SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.218 mW/g**

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

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

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Test report no.: SYBH(Z-SAR)005022011-2

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Date/Time: 2/17/2011 3:18:03 PM, Date/Time: 2/17/2011 3:31:35 PM

**M580 CDMA 1900 600CH Left hand touch cheek-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x14x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.913 mW/g

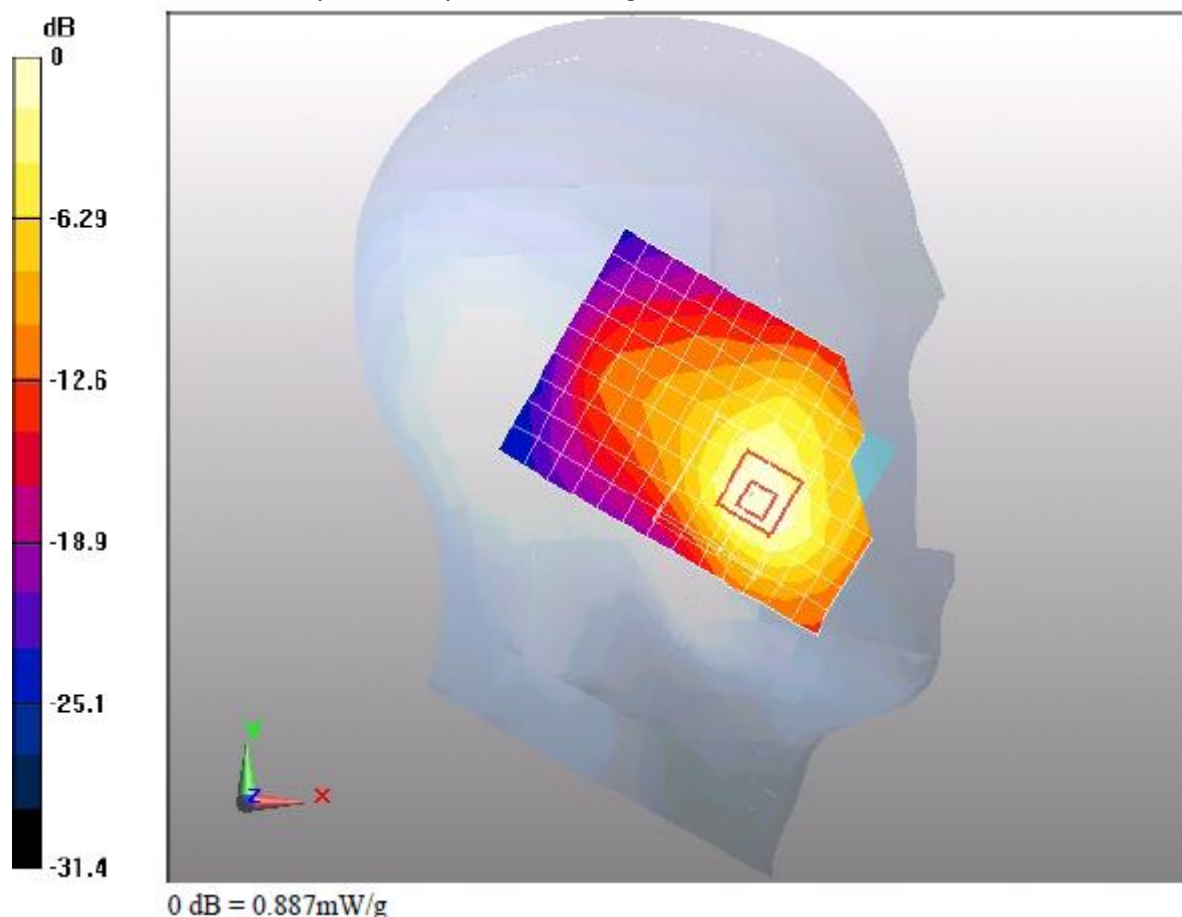
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.78 V/m; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 1.3 W/kg

**SAR(1 g) = 0.802 mW/g; SAR(10 g) = 0.441 mW/g**

Maximum value of SAR (measured) = 0.887 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 4:42:55 PM, Date/Time: 2/17/2011 4:58:26 PM

**M580 CDMA 1900 600CH Left hand tilt 15 degree-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.235 mW/g

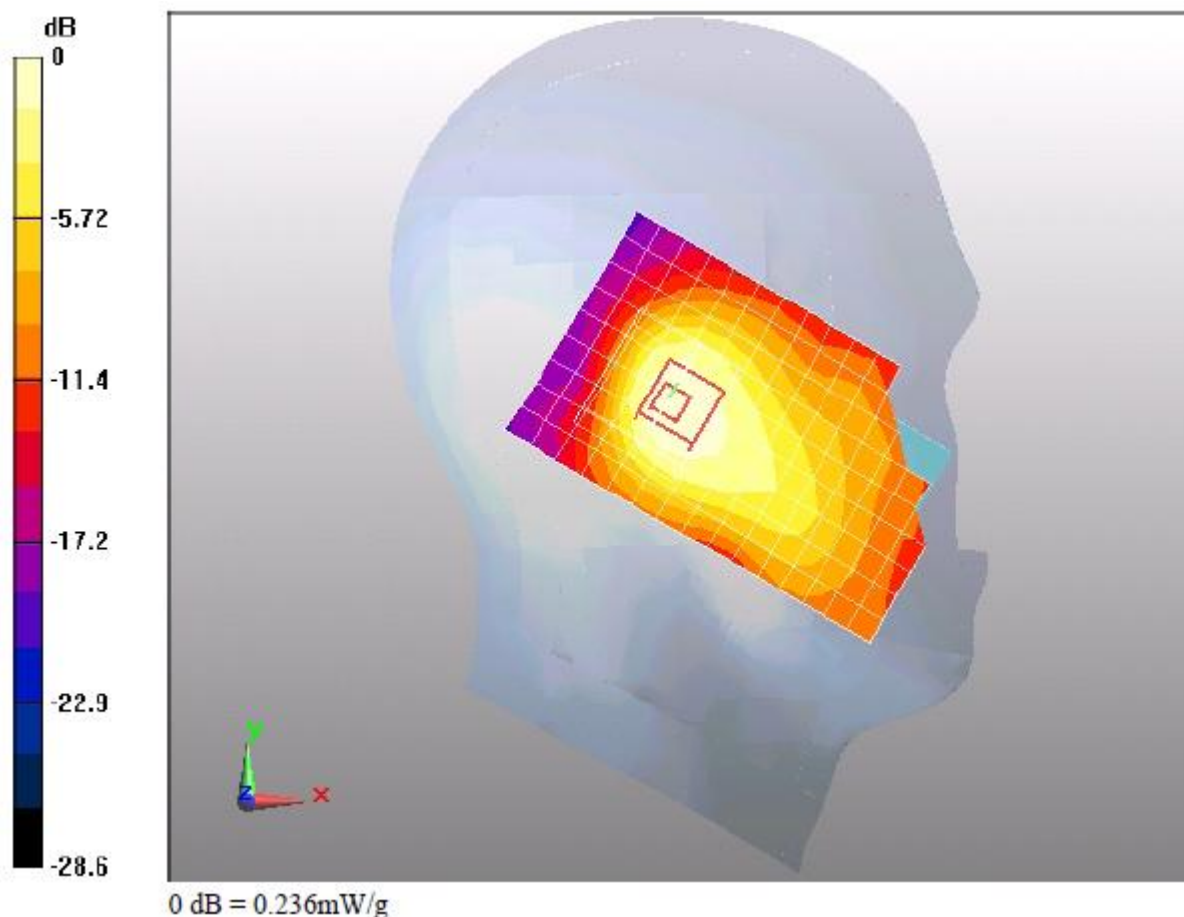
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.343 W/kg

**SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.131 mW/g**

Maximum value of SAR (measured) = 0.236 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

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Test report no.: SYBH(Z-SAR)005022011-2

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Date/Time: 2/17/2011 10:27:20 AM, Date/Time: 2/17/2011 10:41:59 AM

**M580 CDMA 1900 600CH Right hand touch cheek-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.692 mW/g

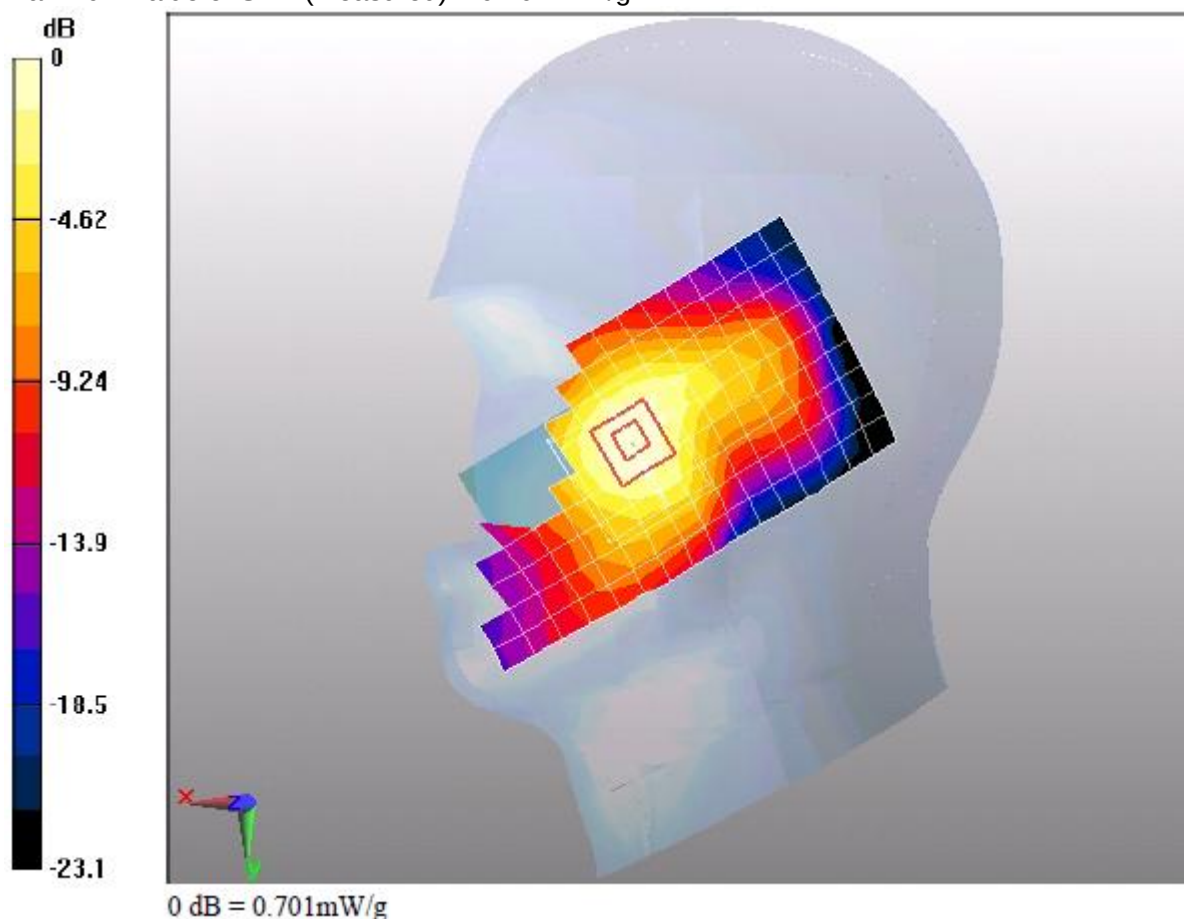
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.25 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.994 W/kg

**SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.394 mW/g**

Maximum value of SAR (measured) = 0.701 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C



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Test report no.: SYBH(Z-SAR)005022011-2

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Date/Time: 2/17/2011 10:58:26 AM, Date/Time: 2/17/2011 11:13:03 AM

**M580 CDMA 1900 600CH Right hand tilt 15 degree-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.474 mW/g

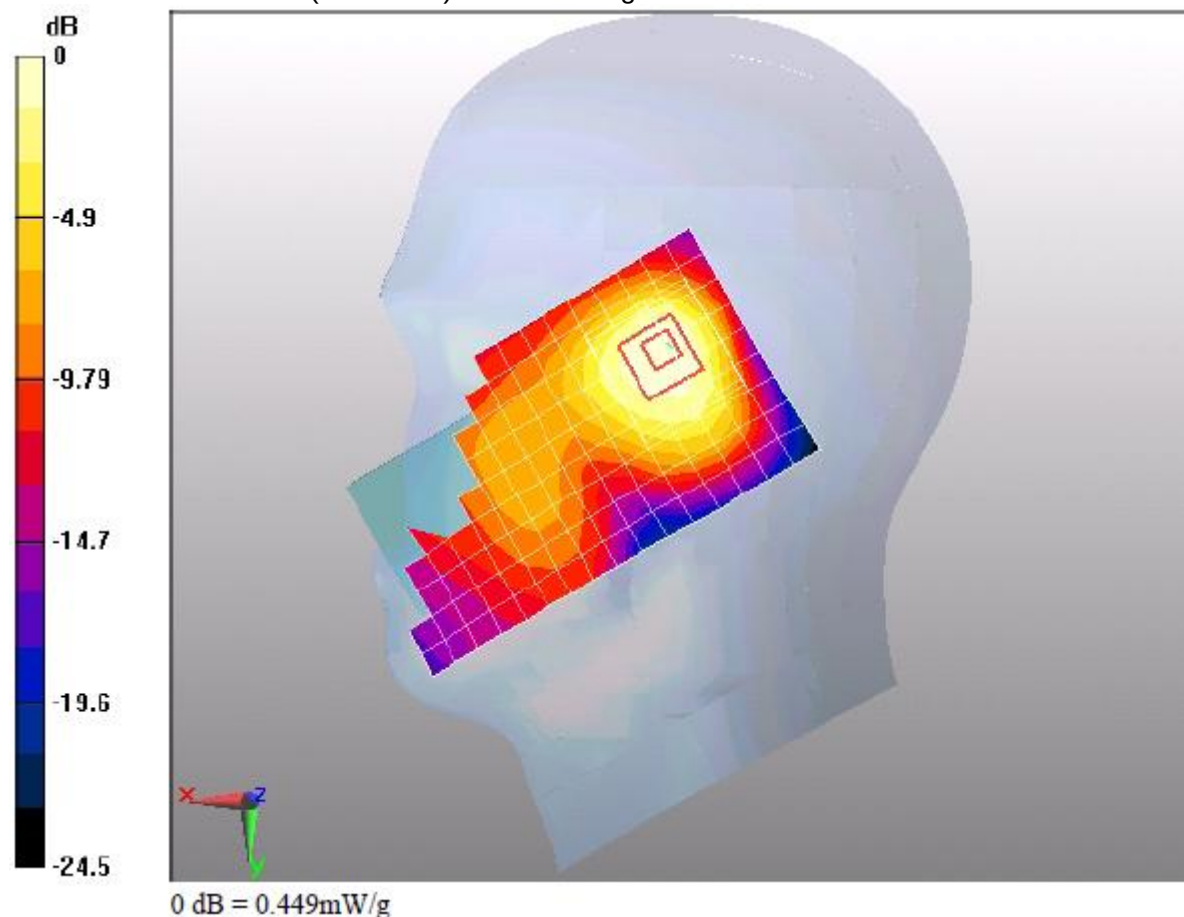
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.5 V/m; Power Drift = -0.00449 dB

Peak SAR (extrapolated) = 0.677 W/kg

**SAR(1 g) = 0.424 mW/g; SAR(10 g) = 0.255 mW/g**

Maximum value of SAR (measured) = 0.449 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

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Test report no.: SYBH(Z-SAR)005022011-2

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Date/Time: 2/17/2011 11:54:56 AM, Date/Time: 2/17/2011 12:09:35 PM

**M580 CDMA 1900 600CH Right hand touch cheek-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.472 mW/g

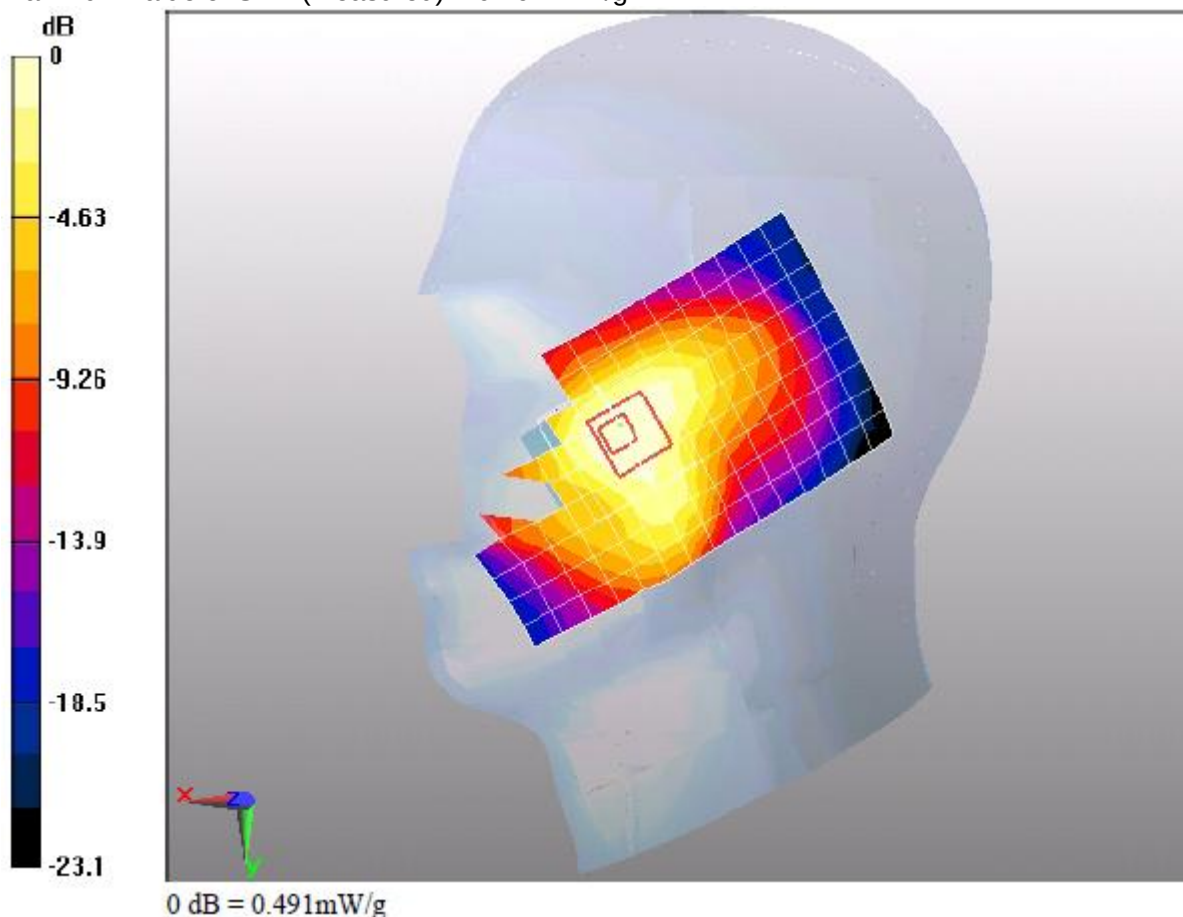
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.56 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 0.714 W/kg

**SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.286 mW/g**

Maximum value of SAR (measured) = 0.491 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 12:25:34 PM, Date/Time: 2/17/2011 12:40:14 PM

**M580 CDMA 1900 600CH Right hand tilt 15 degree-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.261 mW/g

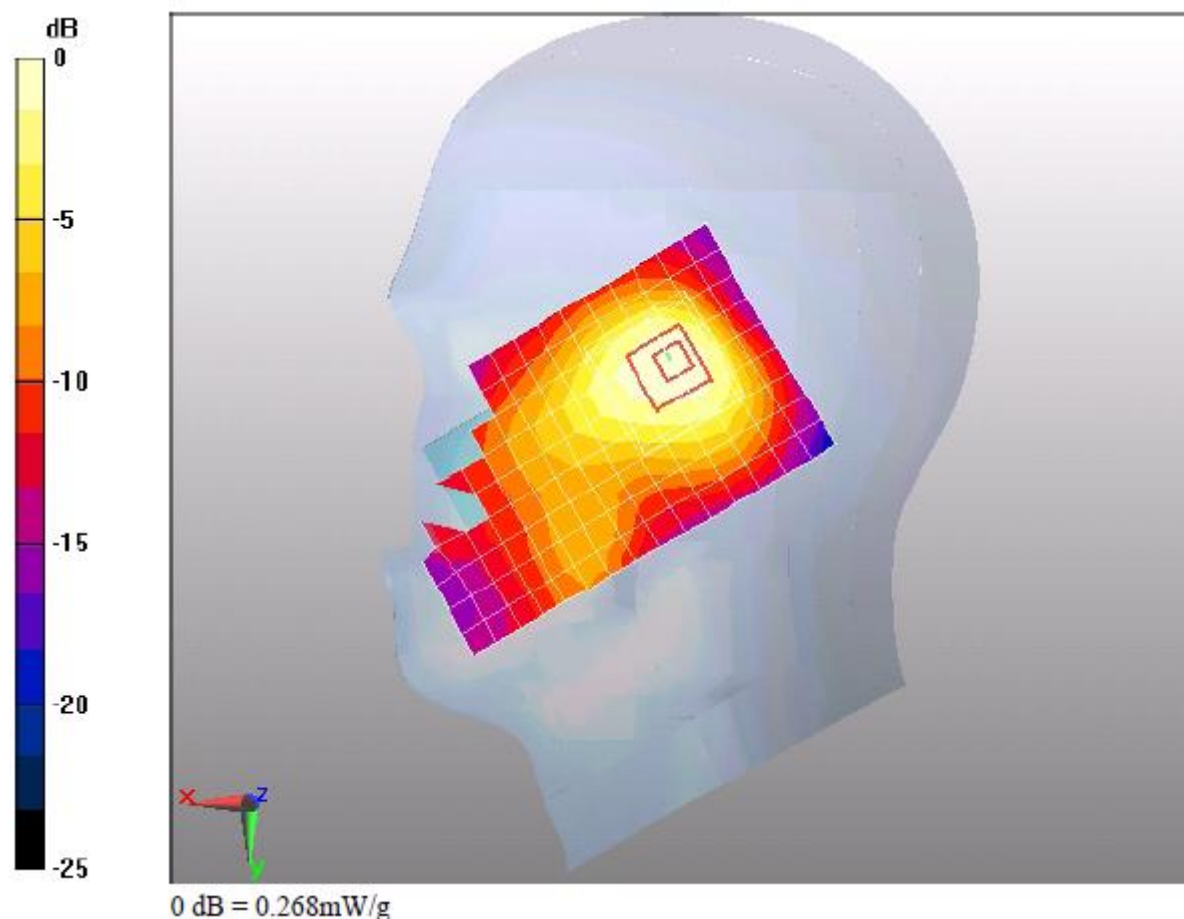
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 0.404 W/kg

**SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.151 mW/g**

Maximum value of SAR (measured) = 0.268 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 6:19:42 PM, Date/Time: 2/17/2011 6:35:08 PM

**M580 CDMA 1900 1175CH Left hand touch cheek-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1908.75 MHz

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1 mW/g

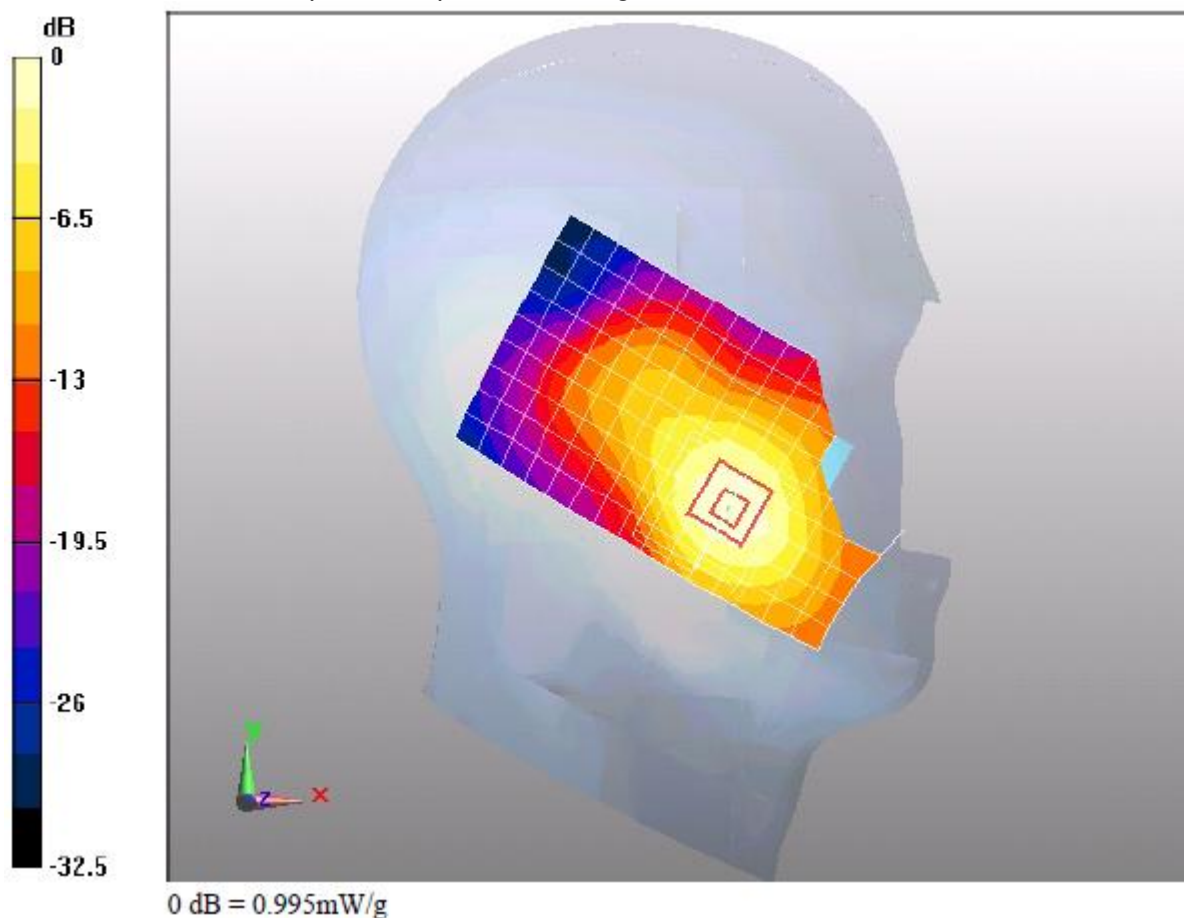
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.904 mW/g; SAR(10 g) = 0.526 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.995 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C



Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 6:47:22 PM, Date/Time: 2/17/2011 7:02:48 PM

**M580 CDMA 1900 25CH Left hand touch cheek-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1851.25 MHz

Medium parameters used (interpolated):  $f = 1851.25$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.930 mW/g

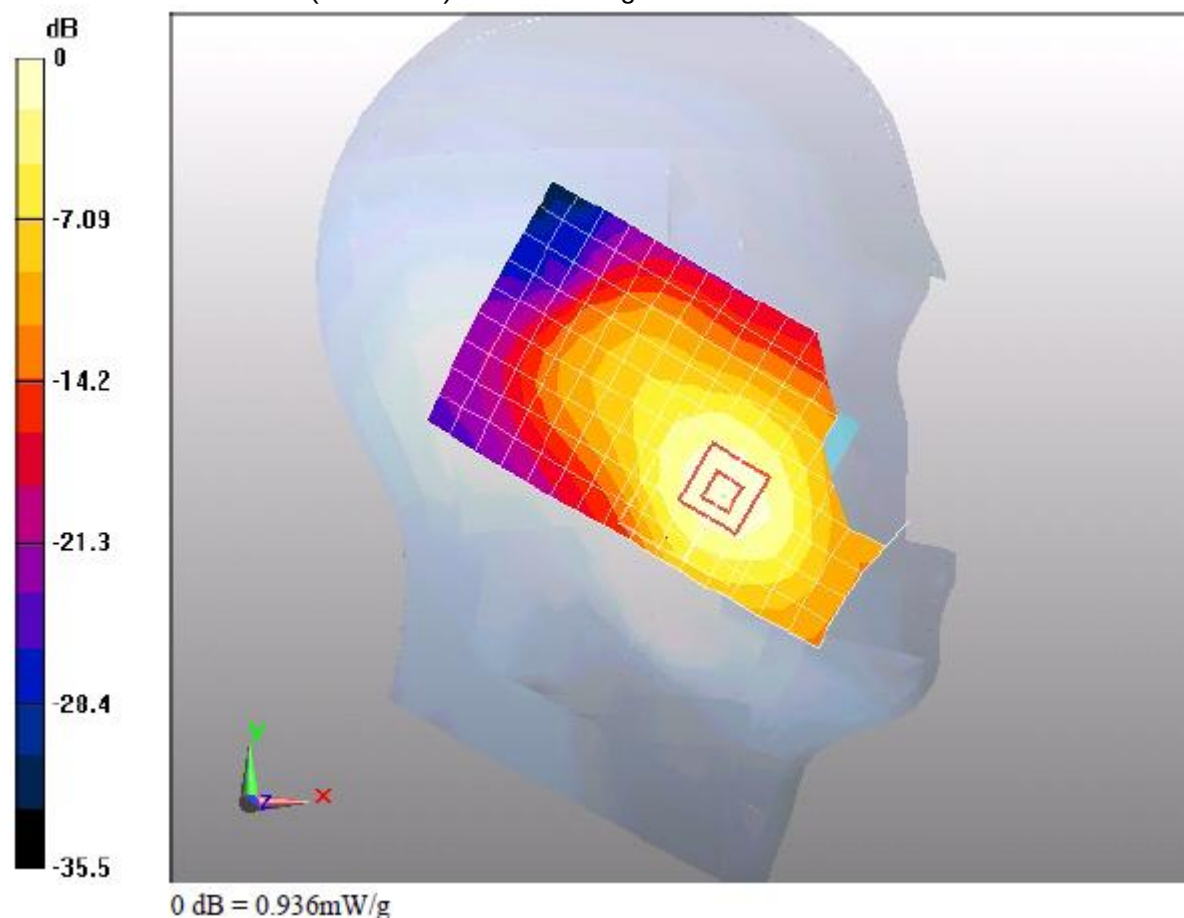
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.74 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.849 mW/g; SAR(10 g) = 0.501 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.936 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C



Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 5:18:36 PM, Date/Time: 2/17/2011 5:34:01 PM

**M580 CDMA 1900 1175CH Left hand touch cheek-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1908.75 MHz

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.869 mW/g

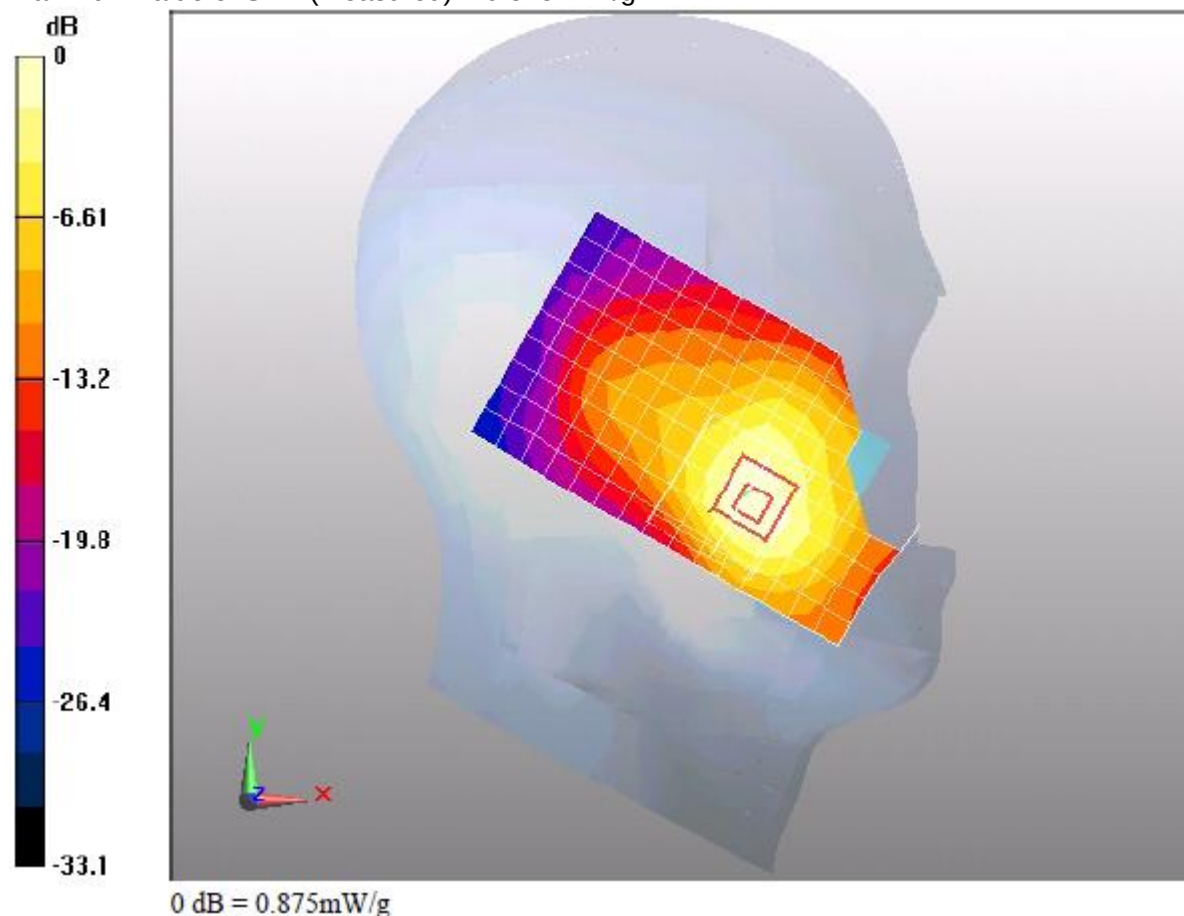
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.89 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.821 mW/g; SAR(10 g) = 0.456 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.875 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 5:46:40 PM, Date/Time: 2/17/2011 6:02:04 PM

**M580 CDMA 1900 25CH Left hand touch cheek-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1851.25 MHz

Medium parameters used (interpolated):  $f = 1851.25$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.97, 4.97, 4.97); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=10mm, dy=10mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.885 mW/g

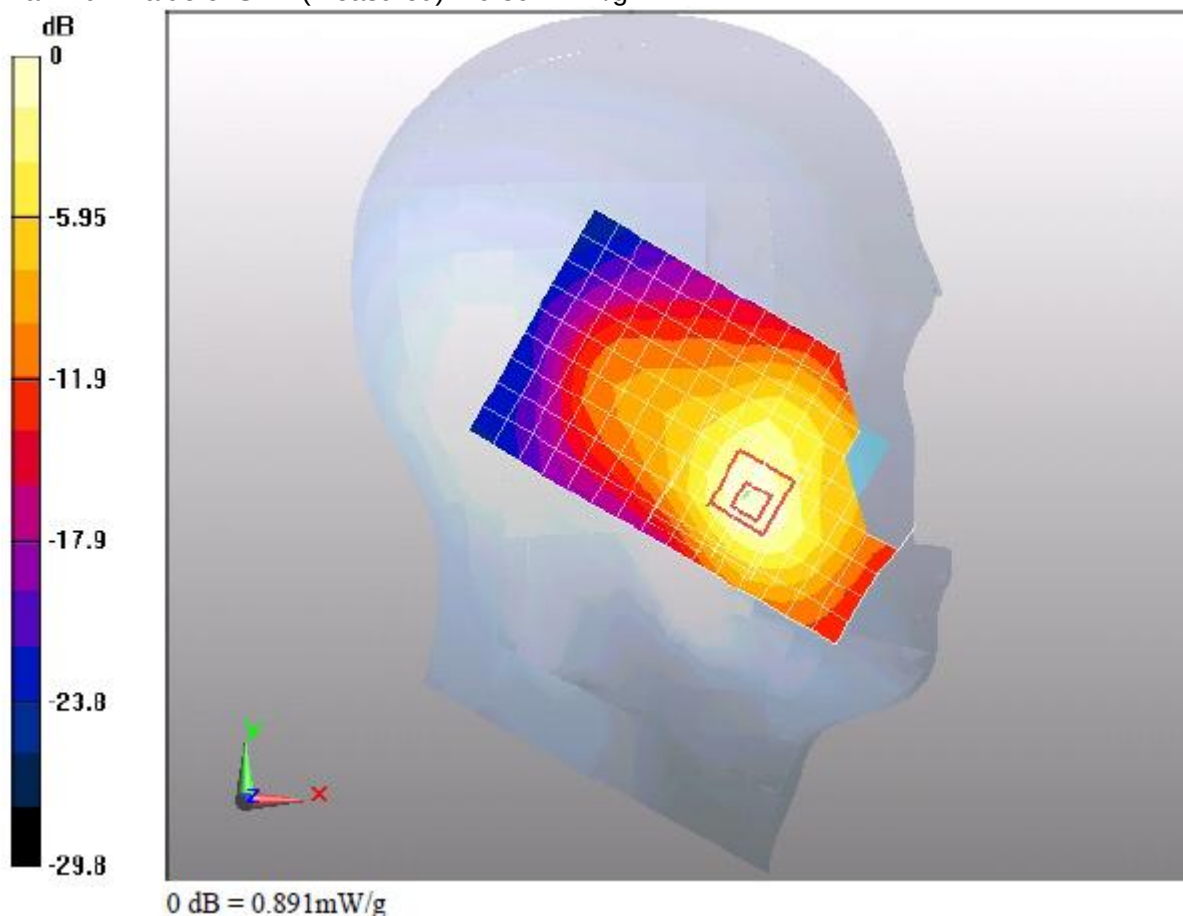
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.81 V/m; Power Drift = 0.0055 dB

Peak SAR (extrapolated) = 1.3 W/kg

**SAR(1 g) = 0.819 mW/g; SAR(10 g) = 0.465 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.891 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.0°C; liquid temperature: 21.5°C

**Annex 2.6 CDMA1900MHz Body**

Date/Time: 2/17/2011 9:56:42 PM, Date/Time: 2/17/2011 10:05:11 PM, Date/Time: 2/17/2011 10:18:51 PM

**M580 CDMA1900 600CH Towards phantom 15mm-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.61, 4.61, 4.61); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.396 mW/g

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.34 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.602 W/kg

**SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.246 mW/g**

Maximum value of SAR (measured) = 0.427 mW/g

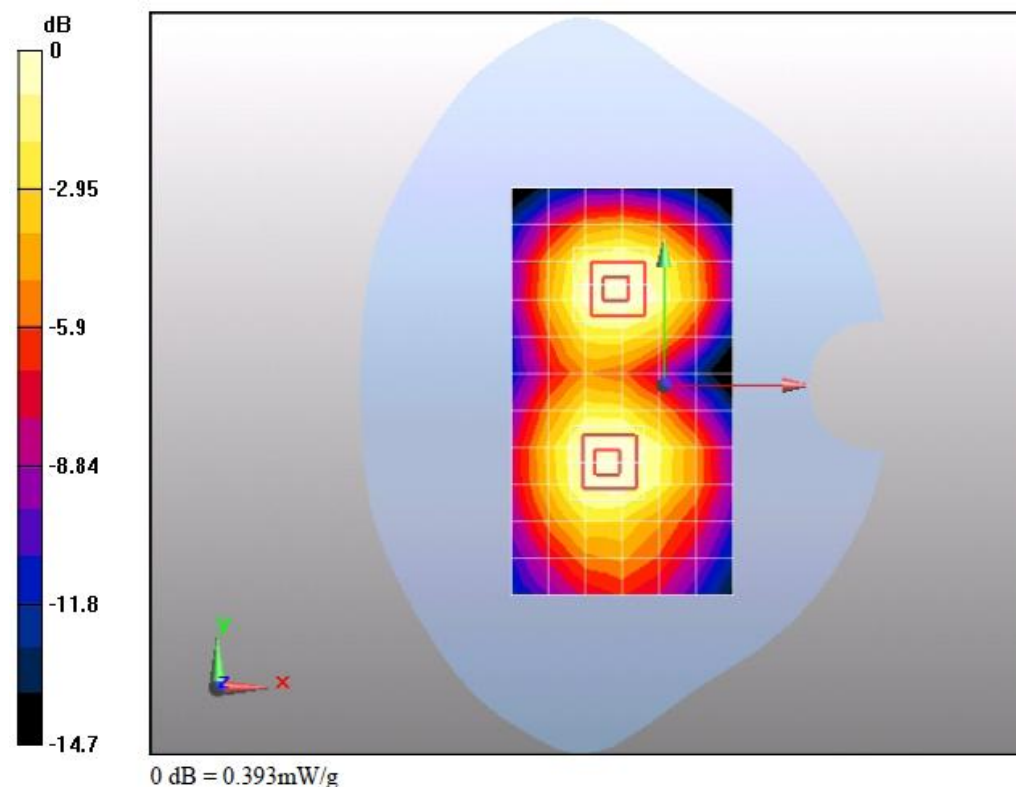
**Configuration/Body/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.34 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.553 W/kg

**SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.237 mW/g**

Maximum value of SAR (measured) = 0.393 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 5:48:37 PM, Date/Time: 2/17/2011 5:57:30 PM

**M580 CDMA1900 600CH Towards phantom 15mm-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.61, 4.61, 4.61); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.161 mW/g

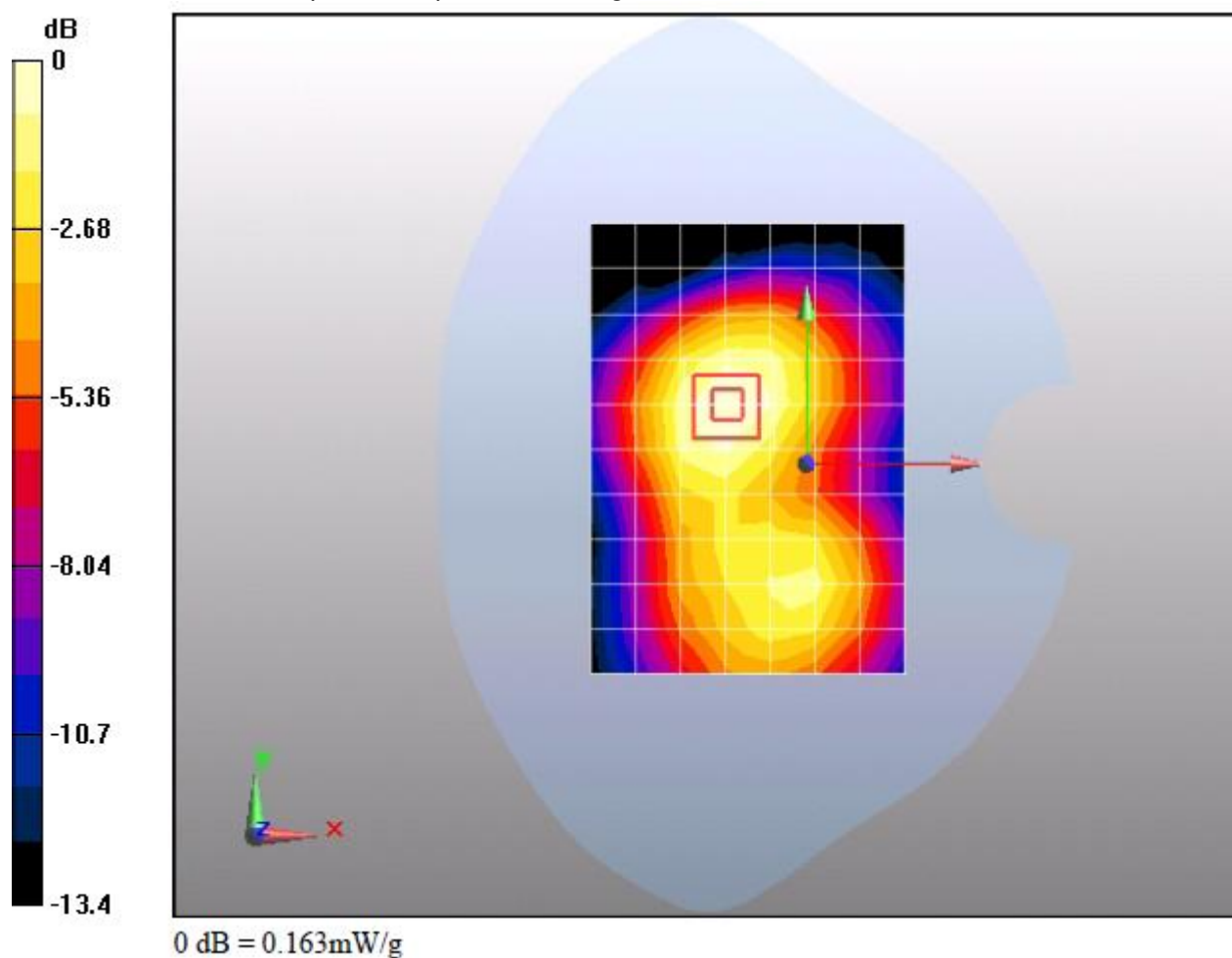
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.36 V/m; Power Drift = 0.00638 dB

Peak SAR (extrapolated) = 0.231 W/kg

**SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.099 mW/g**

Maximum value of SAR (measured) = 0.163 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 10:39:36 PM, Date/Time: 2/17/2011 10:48:55 PM

**M580 CDMA1900 600CH Towards ground 15mm-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.61, 4.61, 4.61); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.641 mW/g

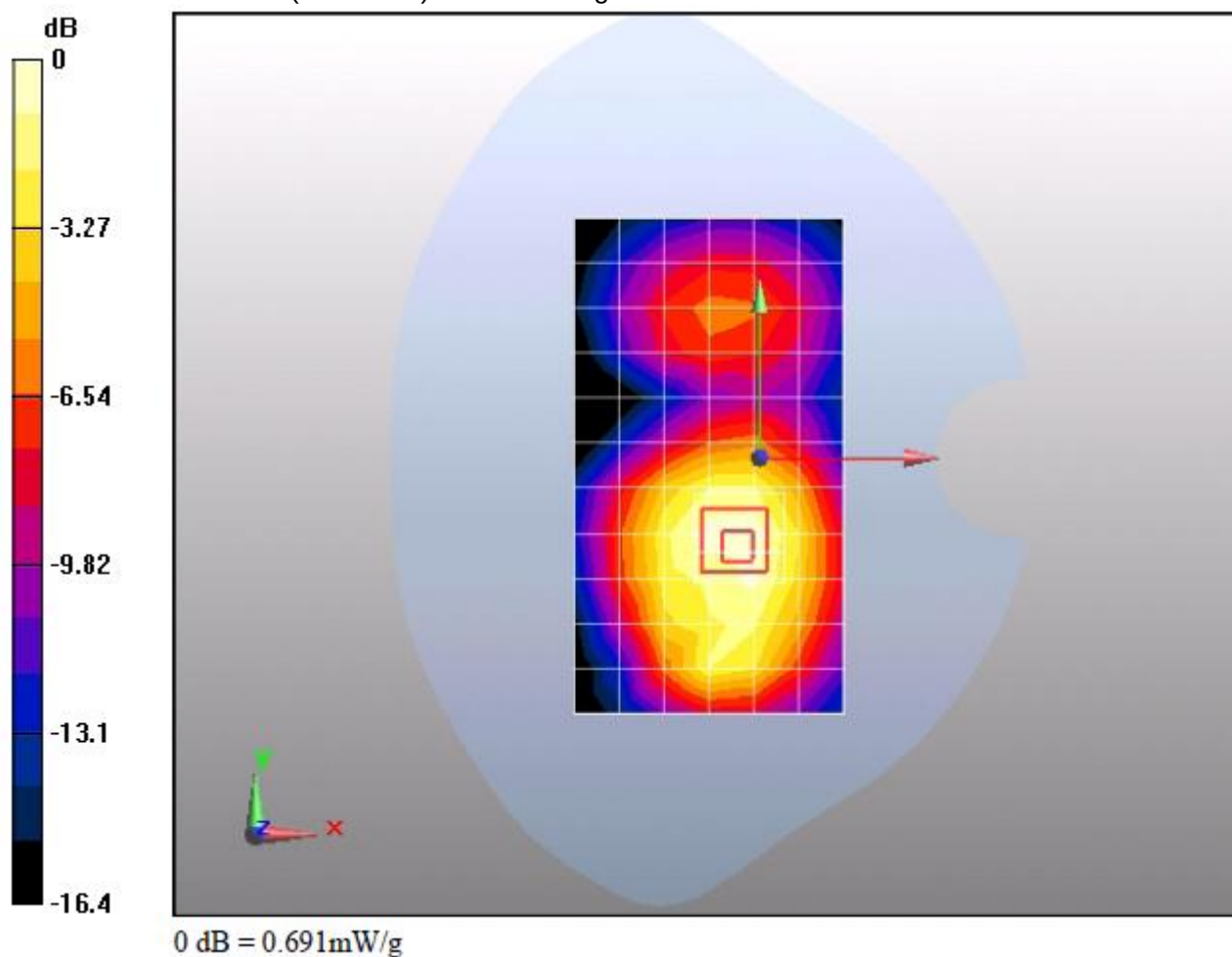
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13 V/m; Power Drift = -0.141 dB

Peak SAR (extrapolated) = 0.976 W/kg

**SAR(1 g) = 0.638 mW/g; SAR(10 g) = 0.398 mW/g**

Maximum value of SAR (measured) = 0.691 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C



Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 11:12:50 PM, Date/Time: 2/17/2011 11:21:44 PM

**M580 CDMA1900 600CH Towards ground 15mm-Close****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.61, 4.61, 4.61); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.586 mW/g

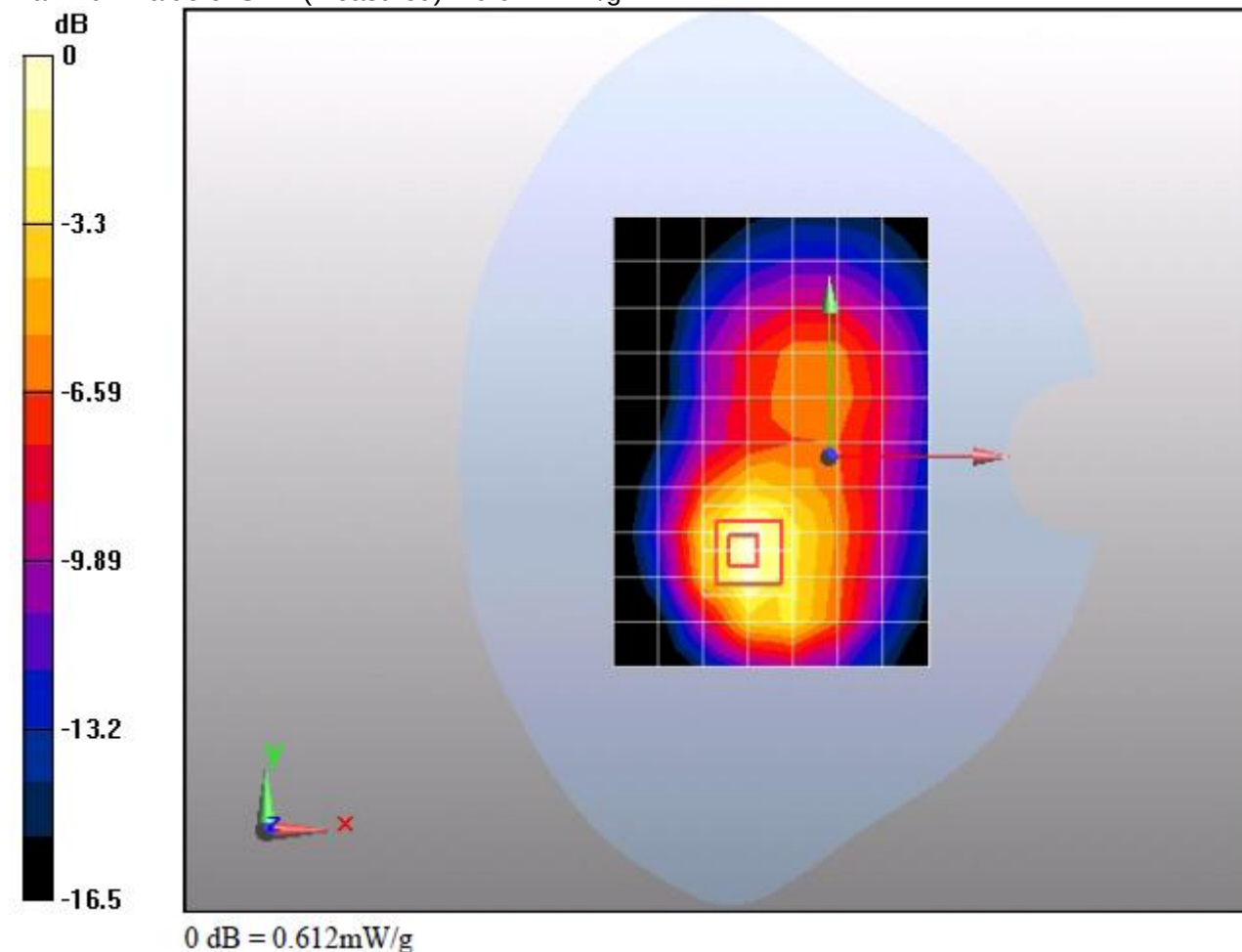
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.84 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 0.967 W/kg

**SAR(1 g) = 0.551 mW/g; SAR(10 g) = 0.303 mW/g**

Maximum value of SAR (measured) = 0.612 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/17/2011 11:42:34 PM, Date/Time: 2/17/2011 11:51:02 PM

**M580 CDMA1900 1175CH Towards ground 15mm-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1908.75 MHz

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.61, 4.61, 4.61); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.641 mW/g

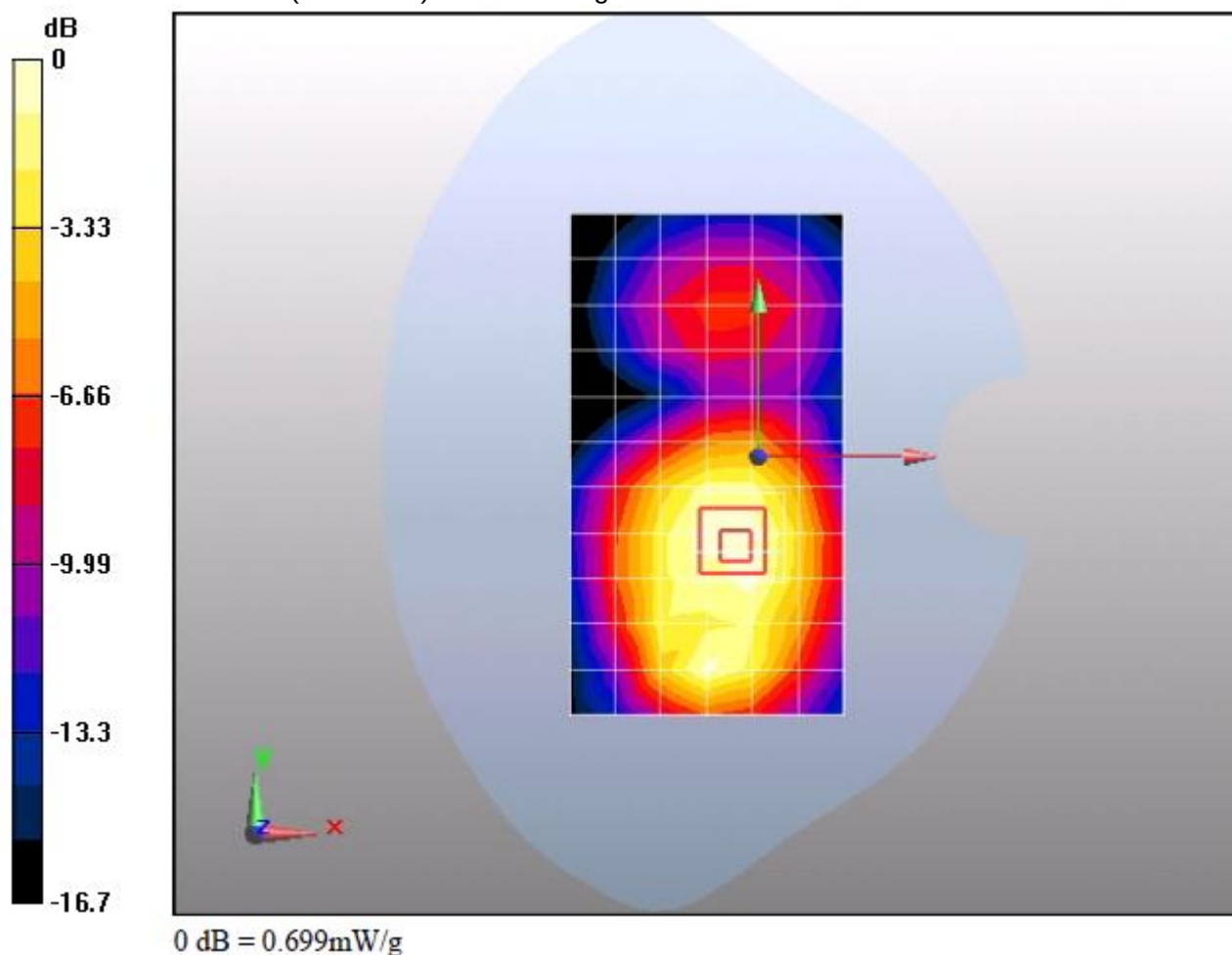
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.995 W/kg

**SAR(1 g) = 0.648 mW/g; SAR(10 g) = 0.404 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.699 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 01:06:37 AM, Date/Time: 2/18/2011 01:15:06 AM

**M580 CDMA1900 25CH Towards ground 15mm-Open****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1851.25 MHz

Medium parameters used (interpolated):  $f = 1851.25$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.61, 4.61, 4.61); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.672 mW/g

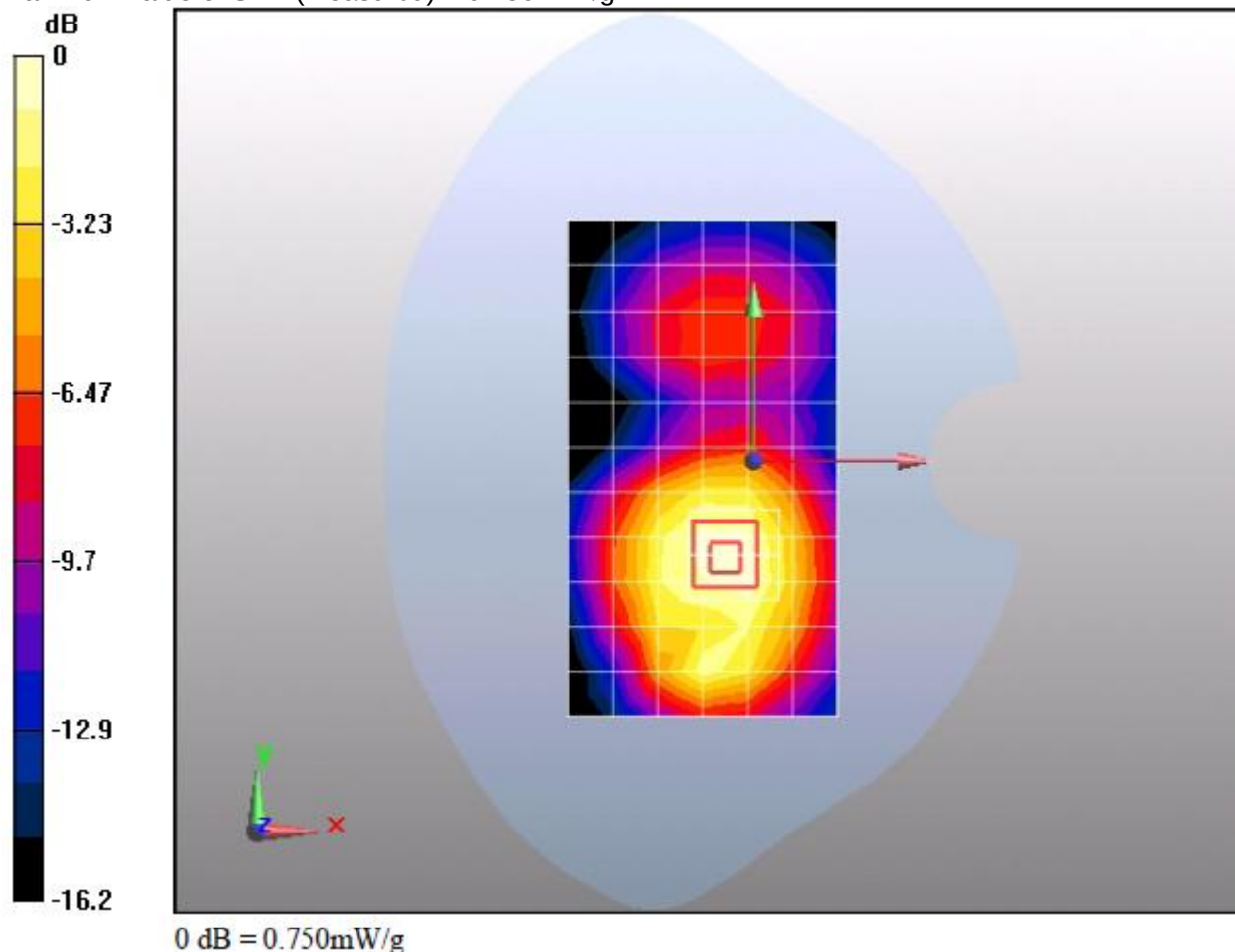
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.437 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



0 dB = 0.750mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 2:00:04 AM, Date/Time: 2/18/2011 2:08:27 AM

**M580 CDMA1900 25CH towards ground 15mm-Open with Headset****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1851.25 MHz

Medium parameters used (interpolated):  $f = 1851.25$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.61, 4.61, 4.61); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.665 mW/g

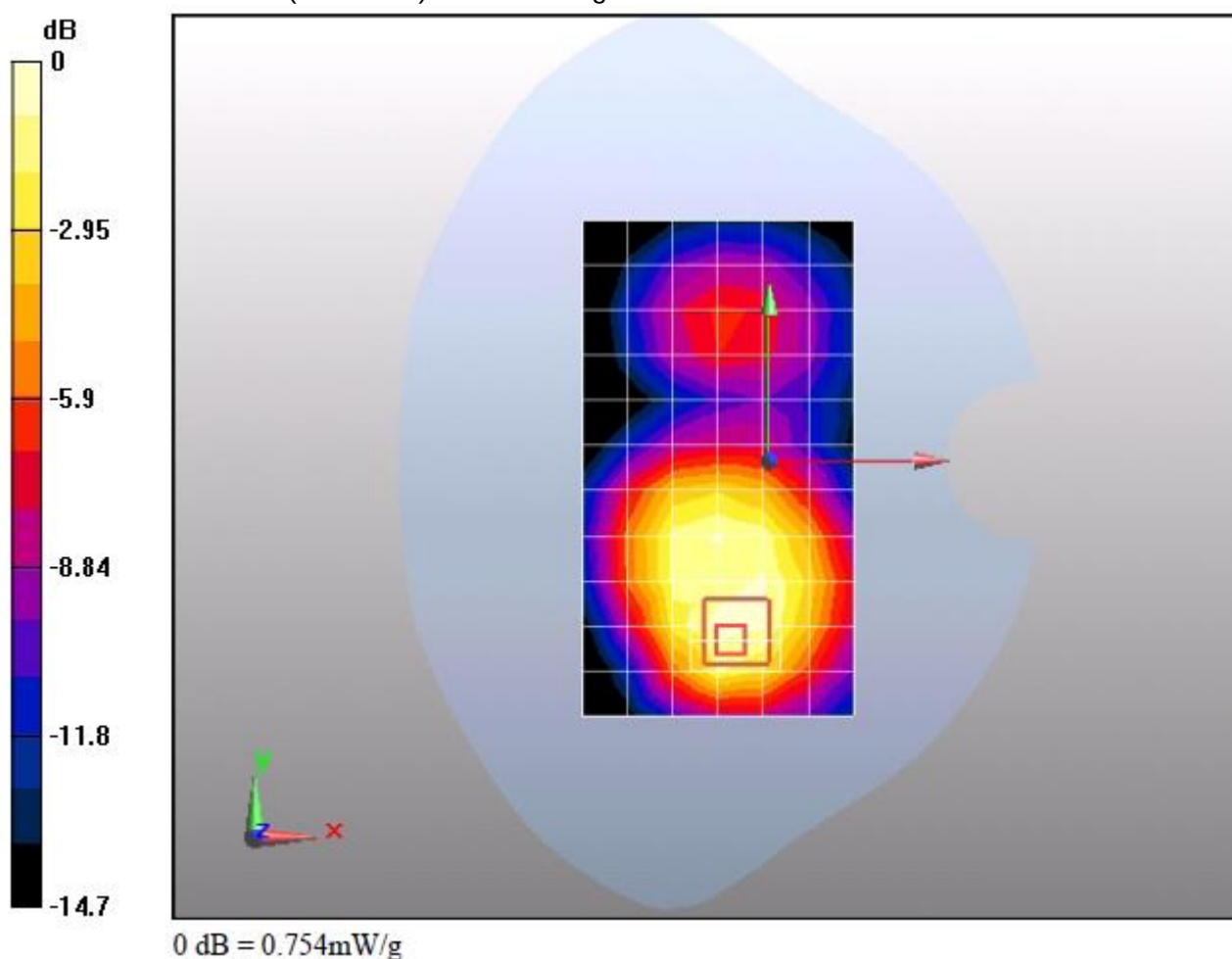
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = -0.089 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.680 mW/g; SAR(10 g) = 0.407 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.754 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C

Test report no.: SYBH(Z-SAR)005022011-2

Date/Time: 2/18/2011 2:31:21 AM, Date/Time: 2/18/2011 2:43:45 AM

**M580 CDMA1900 25CH Towards ground 15mm-Open with Bluetooth Headset****DUT: M580; Type: Handset; Serial: E3J2A11110700279**

Communication System: HW -CDMA2000; Frequency: 1851.25 MHz

Medium parameters used (interpolated):  $f = 1851.25$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: ES3DV3 - SN3168; ConvF(4.61, 4.61, 4.61); Calibrated: 12/23/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn852; Calibrated: 12/24/2010

Phantom: SAM1; Type: SAM; Serial: TP-1475

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.680 mW/g

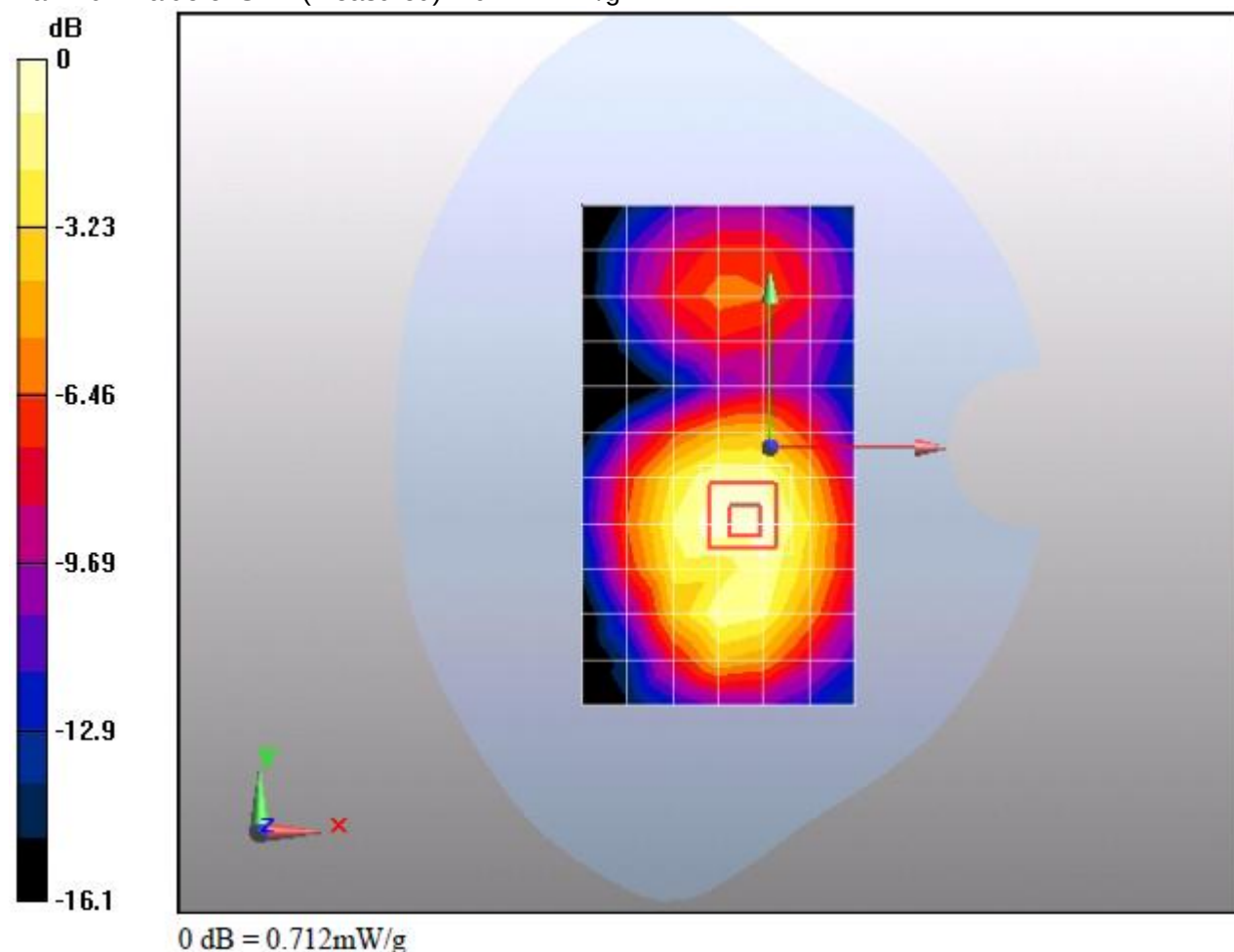
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.993 W/kg

**SAR(1 g) = 0.657 mW/g; SAR(10 g) = 0.411 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.712 mW/g

**Additional information:**

position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 22.0°C; liquid temperature: 21.8°C