

Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/4/2011 19:02:13, Date/Time: 5/4/2011 19:07:37

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM850 EGPRS 3TS 190CH Back side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 3TS; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.969$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.79, 8.99, 9.47); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.652 mW/g

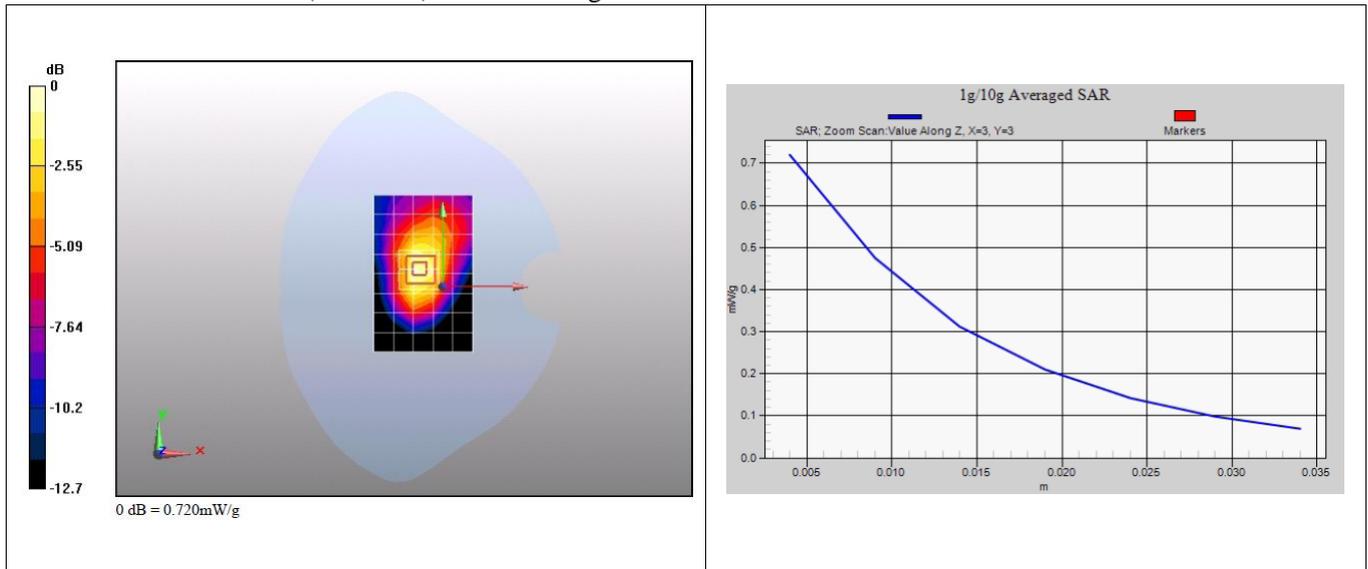
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.654 mW/g; SAR(10 g) = 0.397 mW/g**

Maximum value of SAR (measured) = 0.720 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/4/2011 20:05:28, Date/Time: 5/4/2011 20:10:52

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM850 EGPRS 3TS 128CH Back side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 3TS; Frequency: 824.2 MHz

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.961$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.79, 8.99, 9.47); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.591 mW/g

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

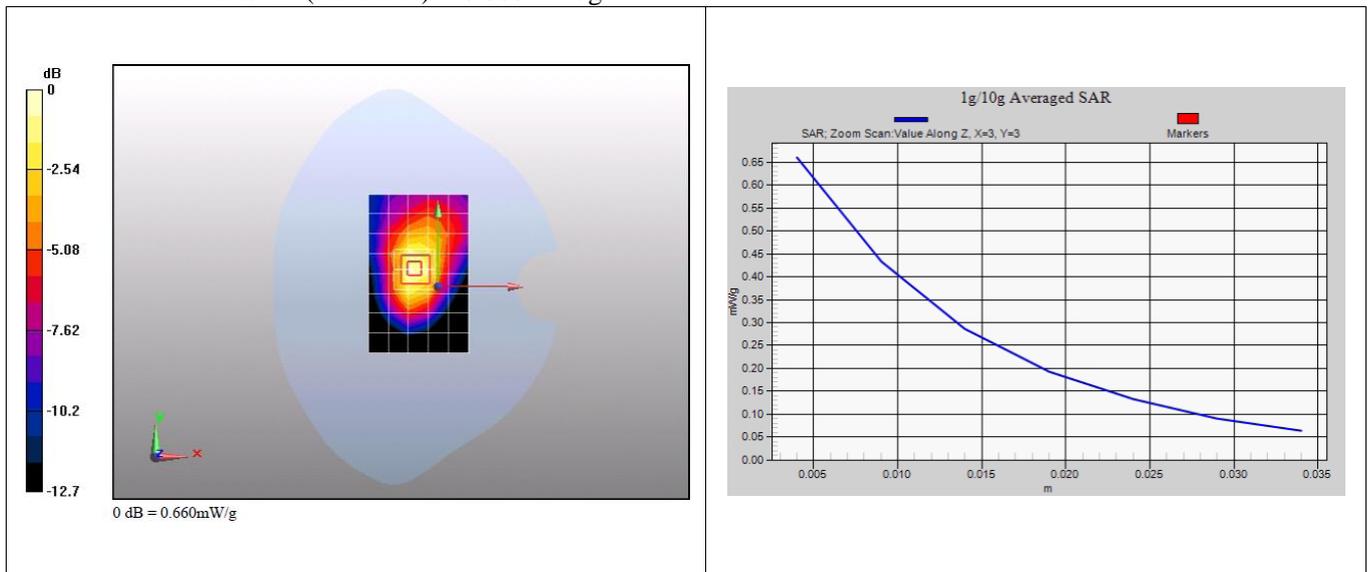
Reference Value = 23.2 V/m; Power Drift = 0.00104 dB

Peak SAR (extrapolated) = 0.925 W/kg

**SAR(1 g) = 0.598 mW/g; SAR(10 g) = 0.363 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.660 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/4/2011 19:23:04, Date/Time: 5/4/2011 19:28:29

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM850 EGPRS 4TS 190CH Back side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 4TS; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.969$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.79, 8.99, 9.47); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

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

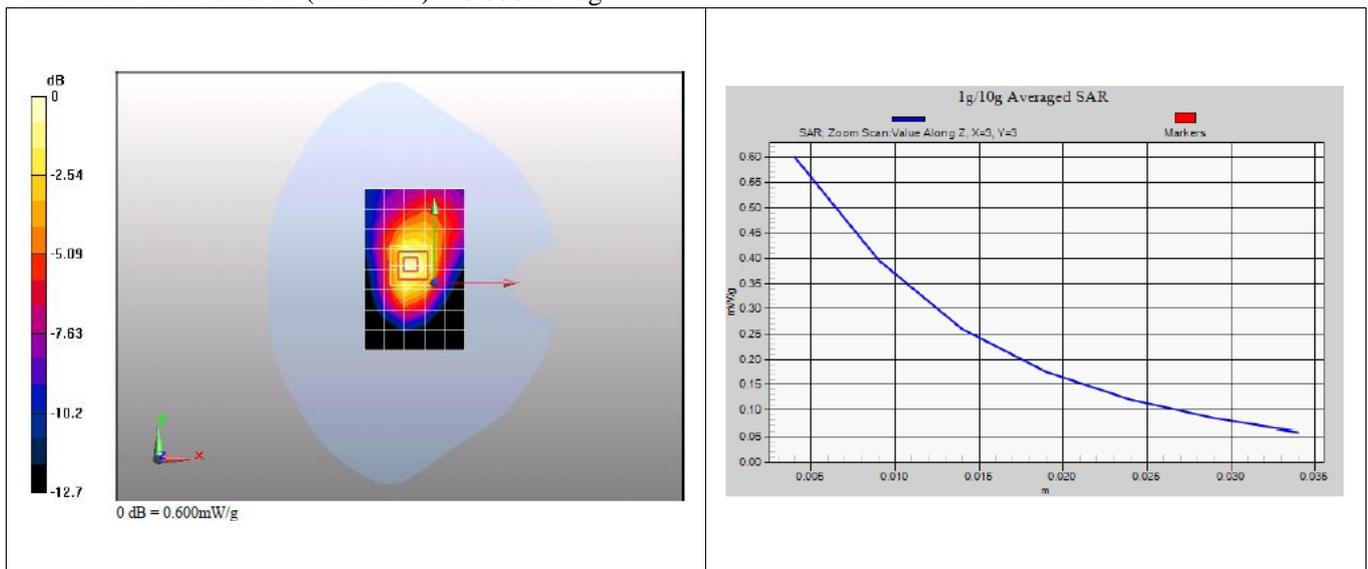
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.2 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 0.838 W/kg

**SAR(1 g) = 0.542 mW/g; SAR(10 g) = 0.329 mW/g**

Maximum value of SAR (measured) = 0.600 mW/g



**Annex 2.2 GSM 1900 MHz body**

Date/Time: 5/3/2011 5:20:32, Date/Time: 5/3/2011 5:25:57

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 1TS 661CH Front Side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.450 mW/g

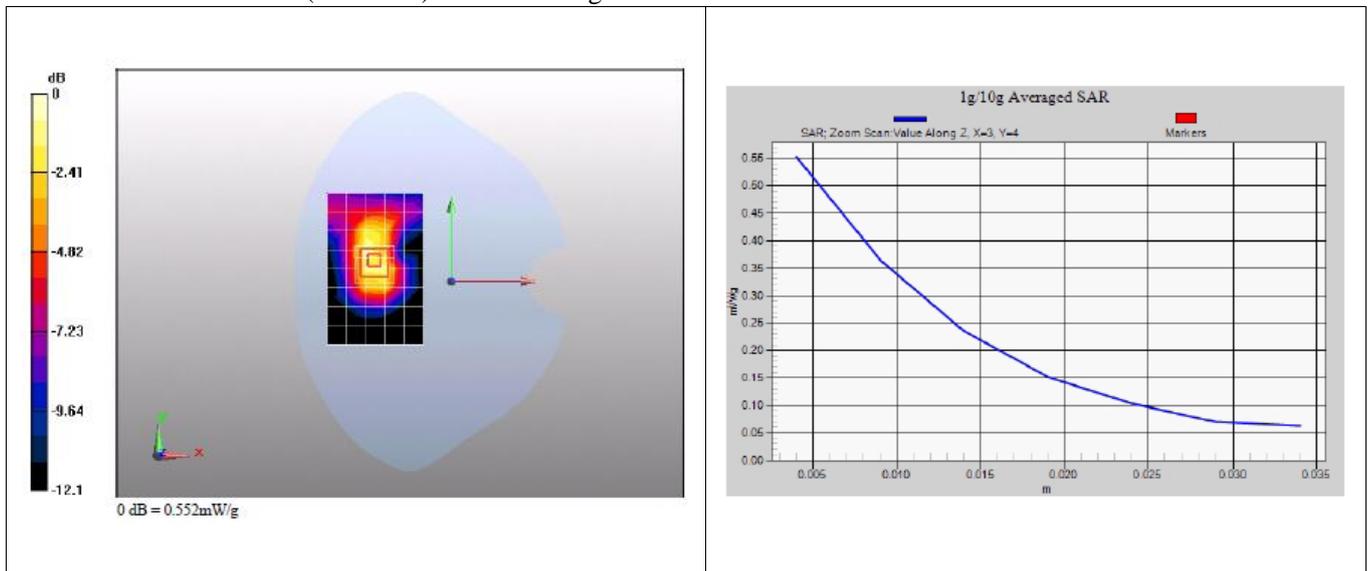
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.38 V/m; Power Drift = -0.119 dB

Peak SAR (extrapolated) = 0.749 W/kg

**SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.293 mW/g**

Maximum value of SAR (measured) = 0.552 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/3/2011 6:04:35, Date/Time: 5/3/2011 6:09:58

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 2TS 661CH Front Side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 2TS; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

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

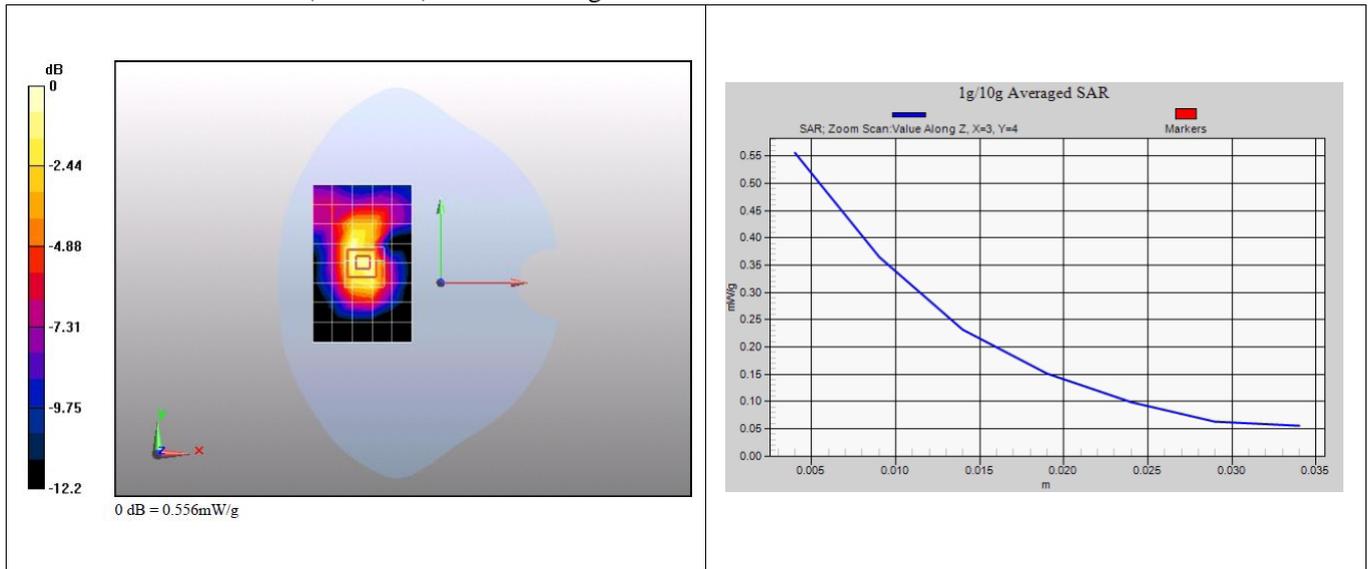
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.97 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.783 W/kg

**SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.297 mW/g**

Maximum value of SAR (measured) = 0.556 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/3/2011 6:28:25, Date/Time: 5/3/2011 6:33:49

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 3TS 661CH Front Side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 3TS; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.437 mW/g

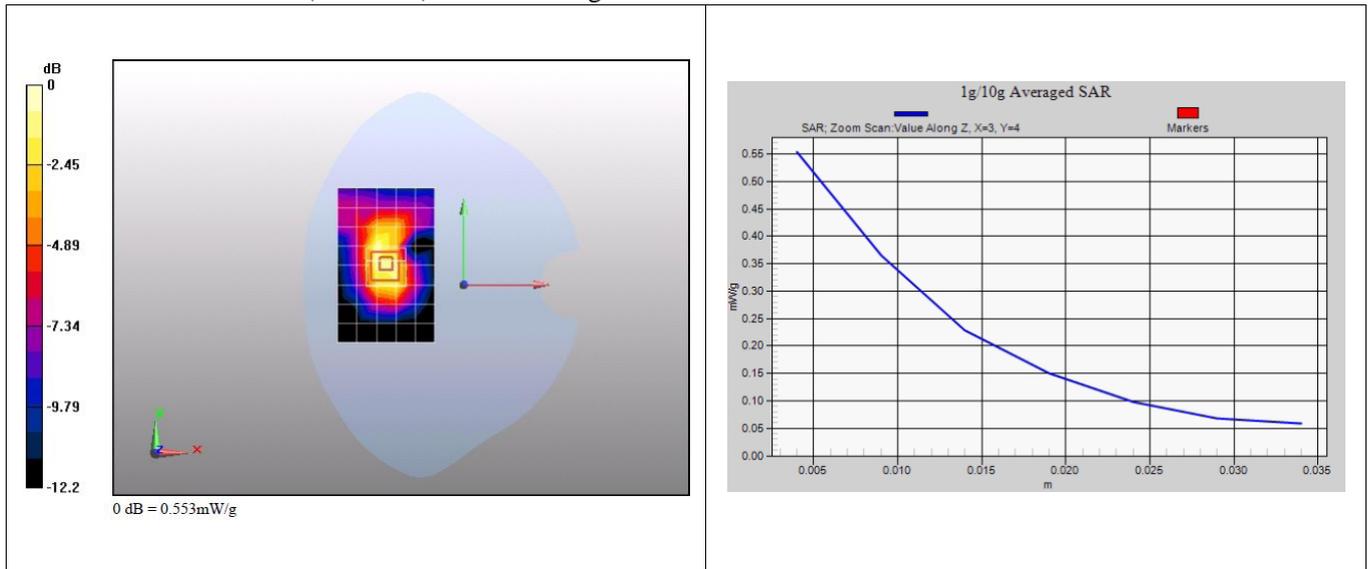
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.06 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.748 W/kg

**SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.296 mW/g**

Maximum value of SAR (measured) = 0.553 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/3/2011 6:54:58, Date/Time: 5/3/2011 7:00:22

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 4TS 661CH Front Side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 4TS; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.405 mW/g

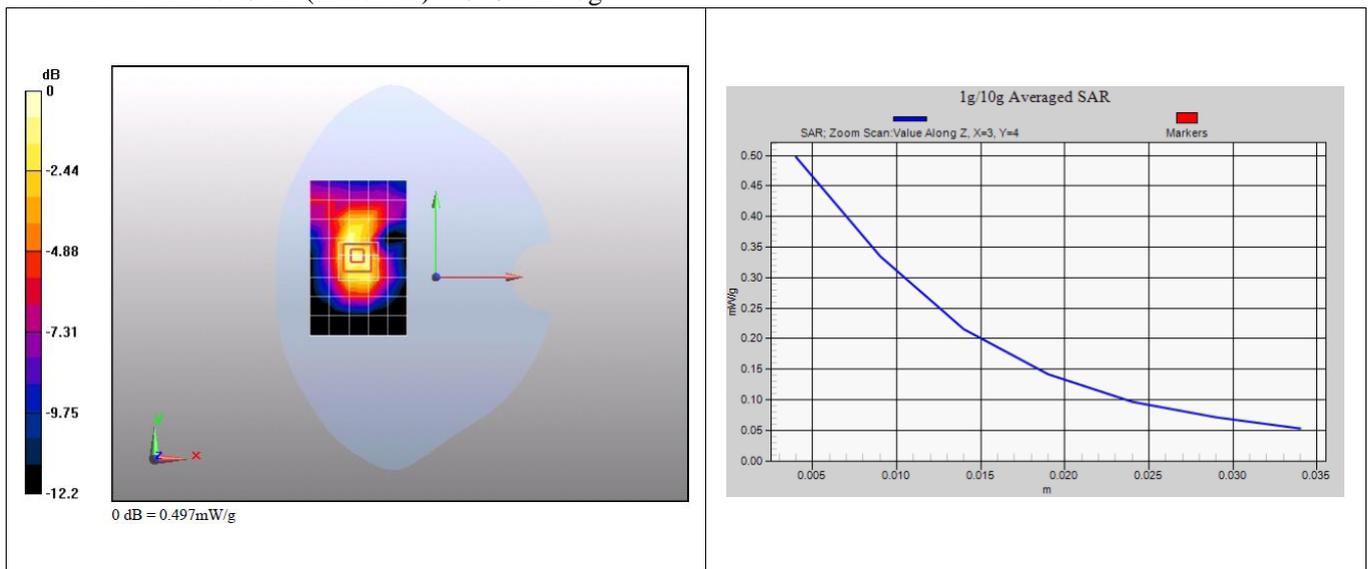
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.47 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 0.675 W/kg

**SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.269 mW/g**

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



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/3/2011 23:30:02, Date/Time: 5/3/2011 23:35:24

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 2TS 810CH Back Side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 2TS; Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.53$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.723 mW/g

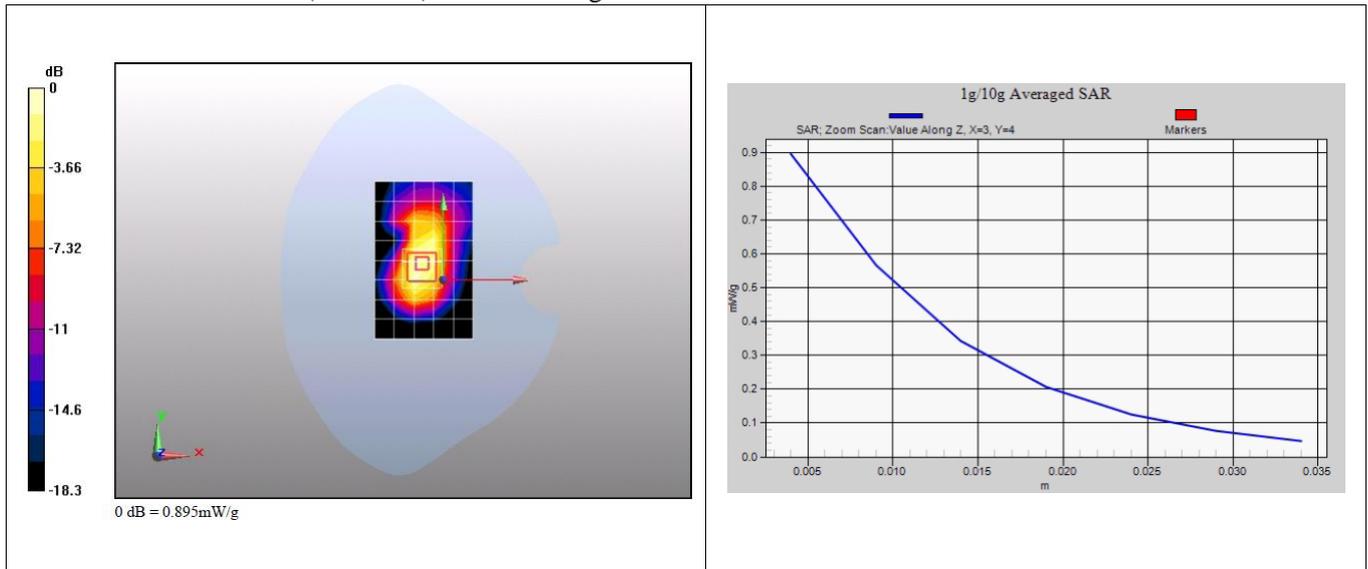
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.8 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.793 mW/g; SAR(10 g) = 0.443 mW/g**

Maximum value of SAR (measured) = 0.895 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/3/2011 22:59:57, Date/Time: 5/3/2011 23:05:20

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 2TS 661CH Back Side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 2TS; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 51.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.566 mW/g

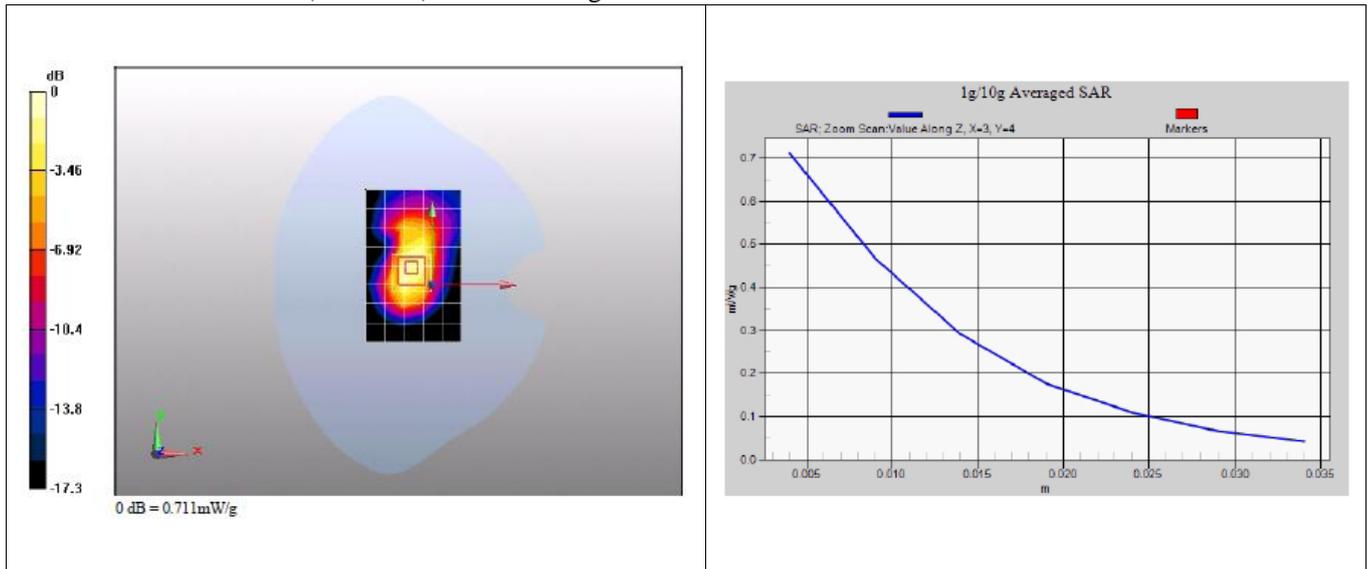
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.5 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 1 W/kg

**SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.357 mW/g**

Maximum value of SAR (measured) = 0.711 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/3/2011 23:56:36, Date/Time: 5/4/2011 0:01:58

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 2TS 512CH Back Side 5mm**

DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173

Communication System: HW -GSM/GPRS/EDGE 2TS; Frequency: 1850.2 MHz

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.5$  mho/m;  $\epsilon_r = 51.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.516 mW/g

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

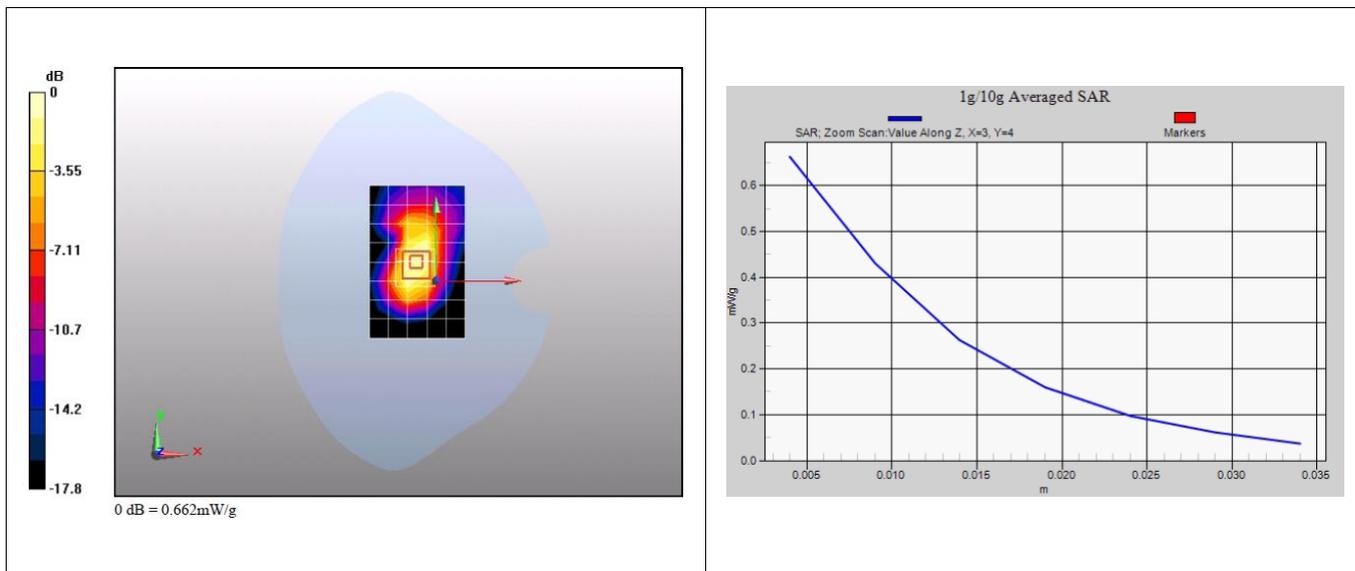
Reference Value = 19.1 V/m; Power Drift = -0.00095 dB

Peak SAR (extrapolated) = 0.940 W/kg

SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.329 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.662 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/3/2011 22:20:45, Date/Time: 5/3/2011 22:26:08

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 2TS 661CH Left side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 2TS; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 51.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.193 mW/g

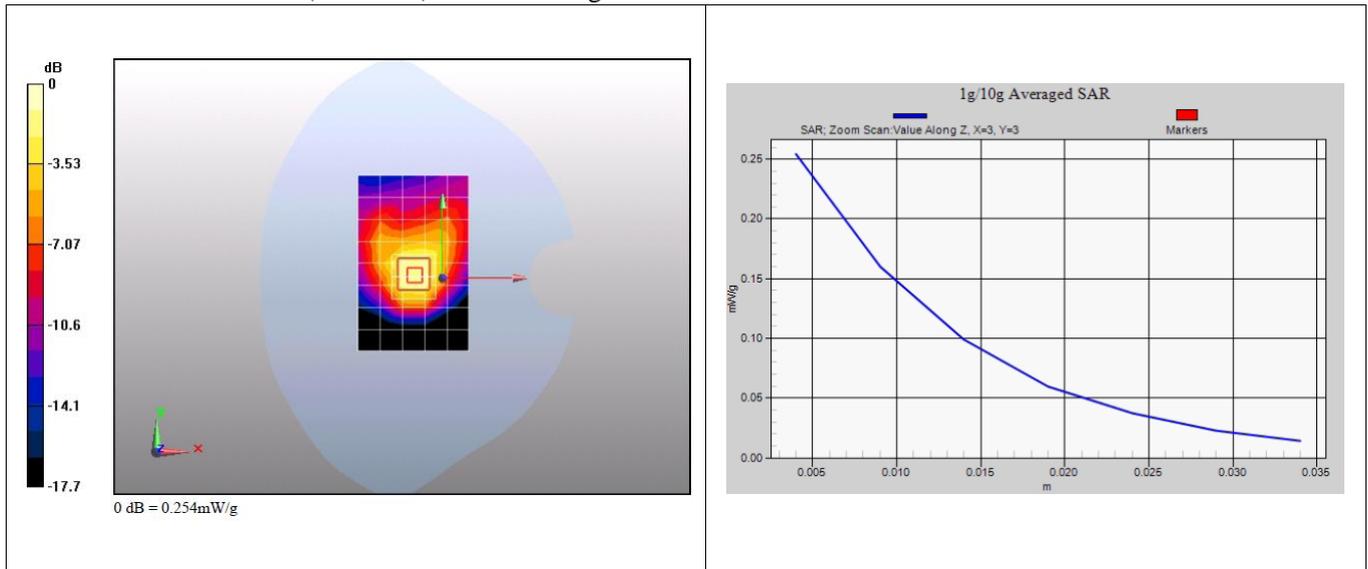
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 0.357 W/kg

**SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.127 mW/g**

Maximum value of SAR (measured) = 0.254 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/3/2011 21:43:44, Date/Time: 5/3/2011 21:49:07

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 GPRS 2TS 661CH Right side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 2TS; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 51.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

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

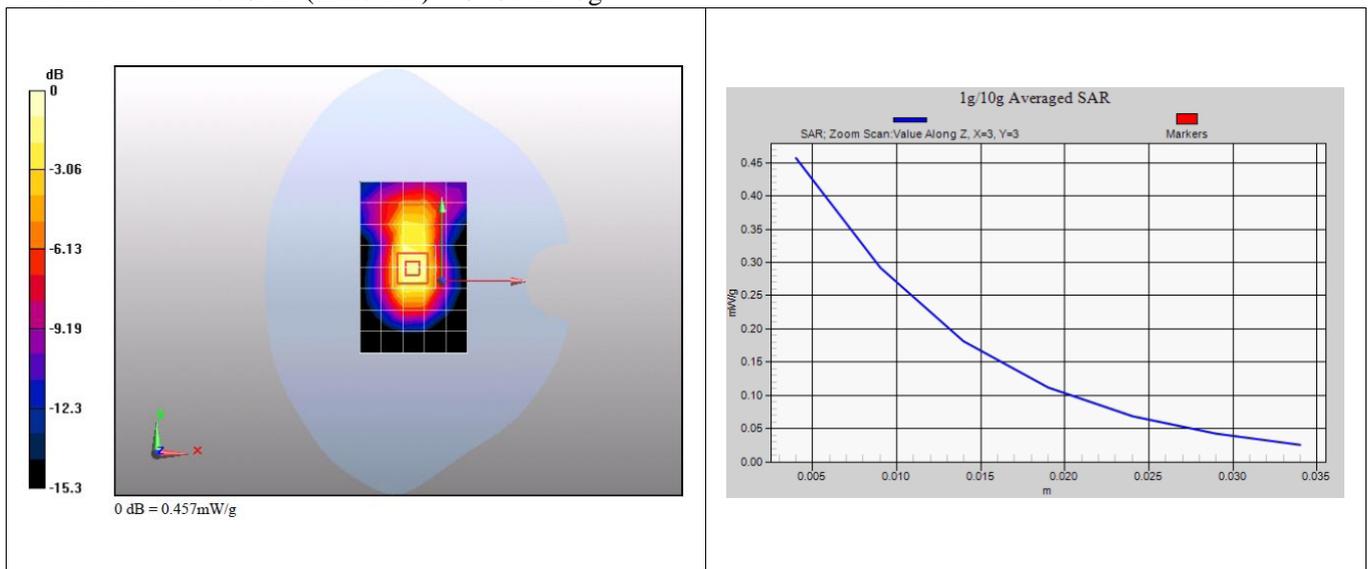
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.7 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.631 W/kg

**SAR(1 g) = 0.410 mW/g; SAR(10 g) = 0.234 mW/g**

Maximum value of SAR (measured) = 0.457 mW/g



Test report no.: SYBH(Z-SAR)003062011-2

Date/Time: 5/4/2011 2:54:30, Date/Time: 5/4/2011 2:59:52

Test Laboratory: HUAWEI GCTC Lab

**E173u-3 GSM1900 EGPRS 1TS 661CH Back Side 5mm**

**DUT: E173u-3; Type: HSPA USB Stick; Serial: H55TAA1060200173**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 51.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.49, 7.65, 8.03); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.655 mW/g

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

Reference Value = 19.1 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 0.951 W/kg

**SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.343 mW/g**

Maximum value of SAR (measured) = 0.684 mW/g

