

Date/Time: 2010-07-17 05:22:31

**P1528\_OET65-Body- WCDMA FDD AWS1700 towards ground**

**DUT: HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**

Communication System: W1700 ; Frequency: 1712.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 53.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.88, 4.88, 4.88); Calibrated: 12/18/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/18/2009
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.448 mW/g

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

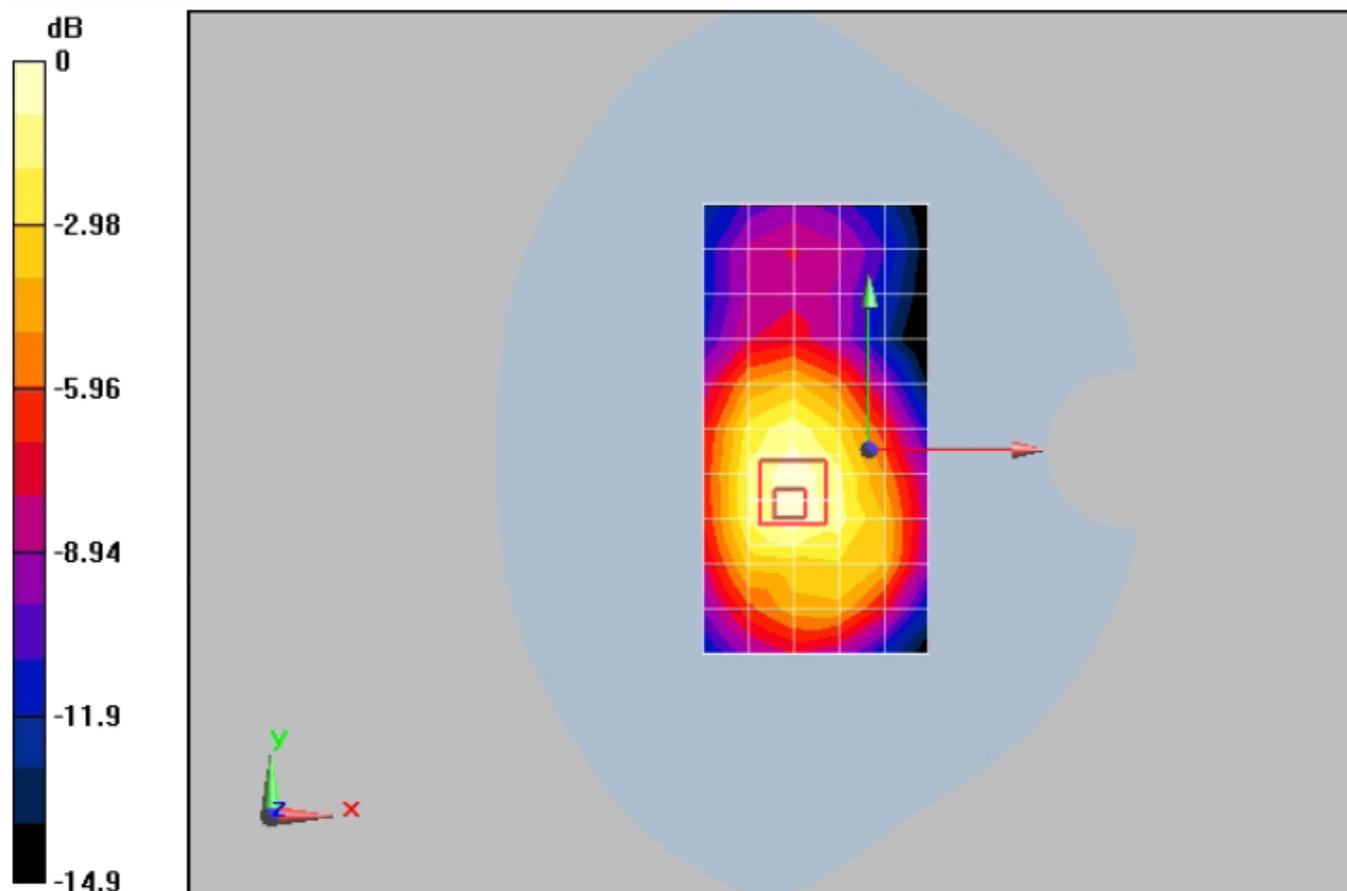
Reference Value = 15.7 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 0.660 W/kg

**SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.278 mW/g**

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

Maximum value of SAR (measured) = 0.467 mW/g



0 dB = 0.467mW/g

**Additional information:**

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

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

**P1528\_OET65-Body- WCDMA FDD AWS1700 towards ground with Headset****DUT: HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**

Communication System: W1700 ; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.88, 4.88, 4.88); Calibrated: 12/18/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/18/2009
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**body/Area Scan (8x16x1):** Measurement grid: dx=10mm, dy=10mmInfo: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.455 mW/g

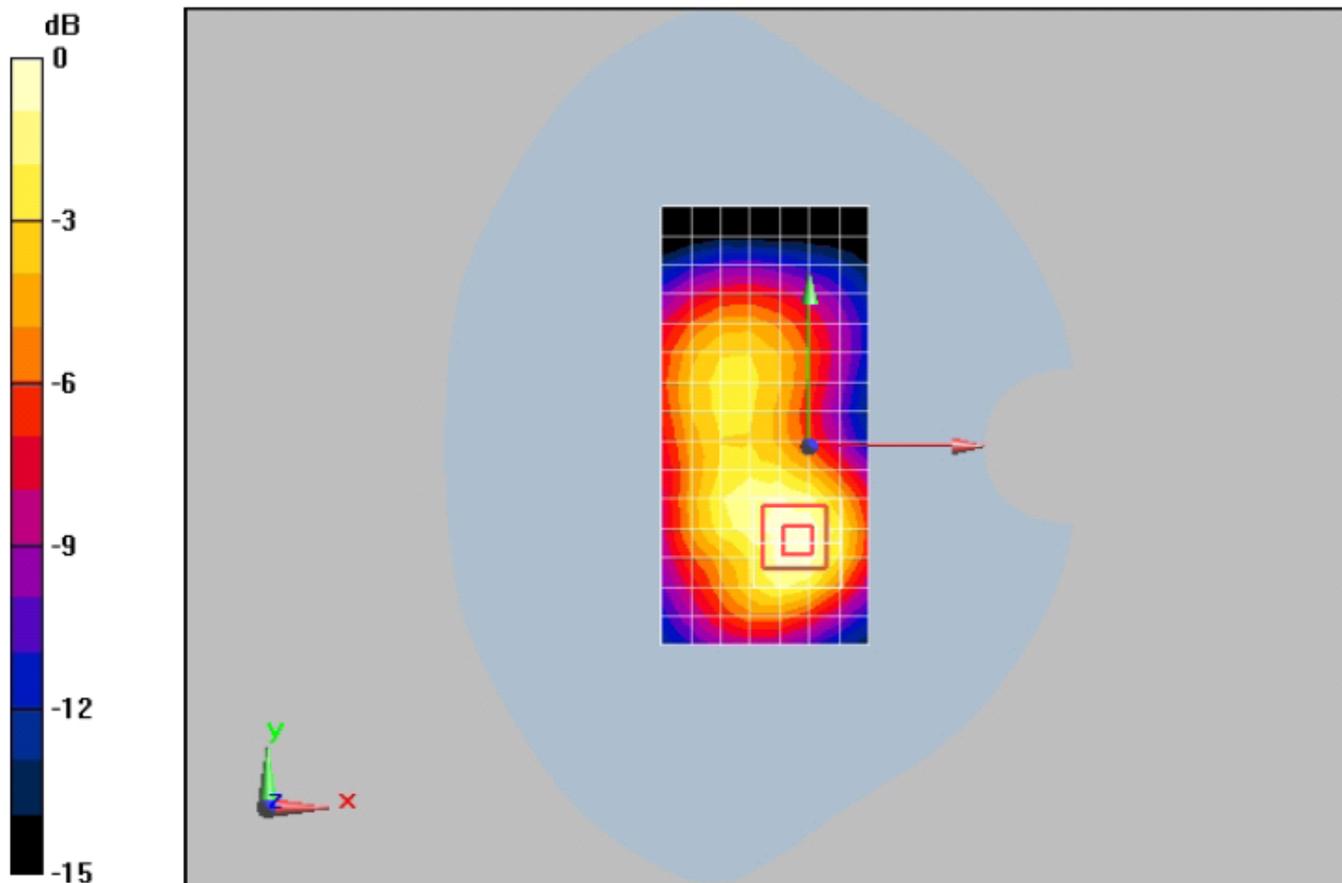
**body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.00282 dB

Peak SAR (extrapolated) = 0.712 W/kg

**SAR(1 g) = 0.439 mW/g; SAR(10 g) = 0.260 mW/g**Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.482 mW/g



0 dB = 0.482mW/g

**Additional information:**

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

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

**P1528\_OET65-Body- WCDMA FDD AWS1700 towards ground with Bluetooth Headset**

**DUT: HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**

Communication System: W1700 ; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.88, 4.88, 4.88); Calibrated: 12/18/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/18/2009
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**body/Area Scan (8x16x1):** Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (measured) = 0.430 mW/g

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

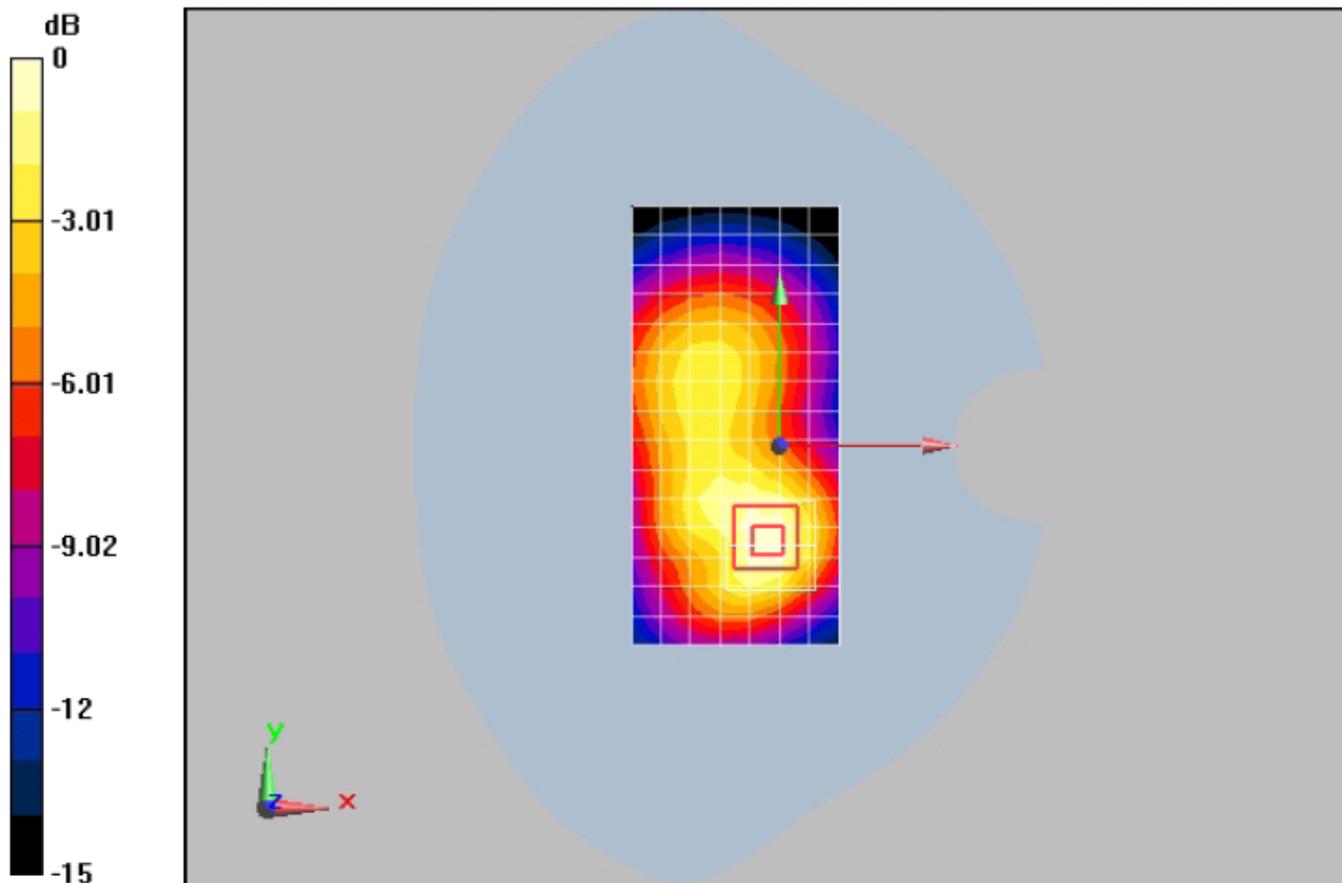
Reference Value = 12.8 V/m; Power Drift = 0.125 dB

Peak SAR (extrapolated) = 0.685 W/kg

**SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.246 mW/g**

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

Maximum value of SAR (measured) = 0.462 mW/g



0 dB = 0.462mW/g

**Additional information:**

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

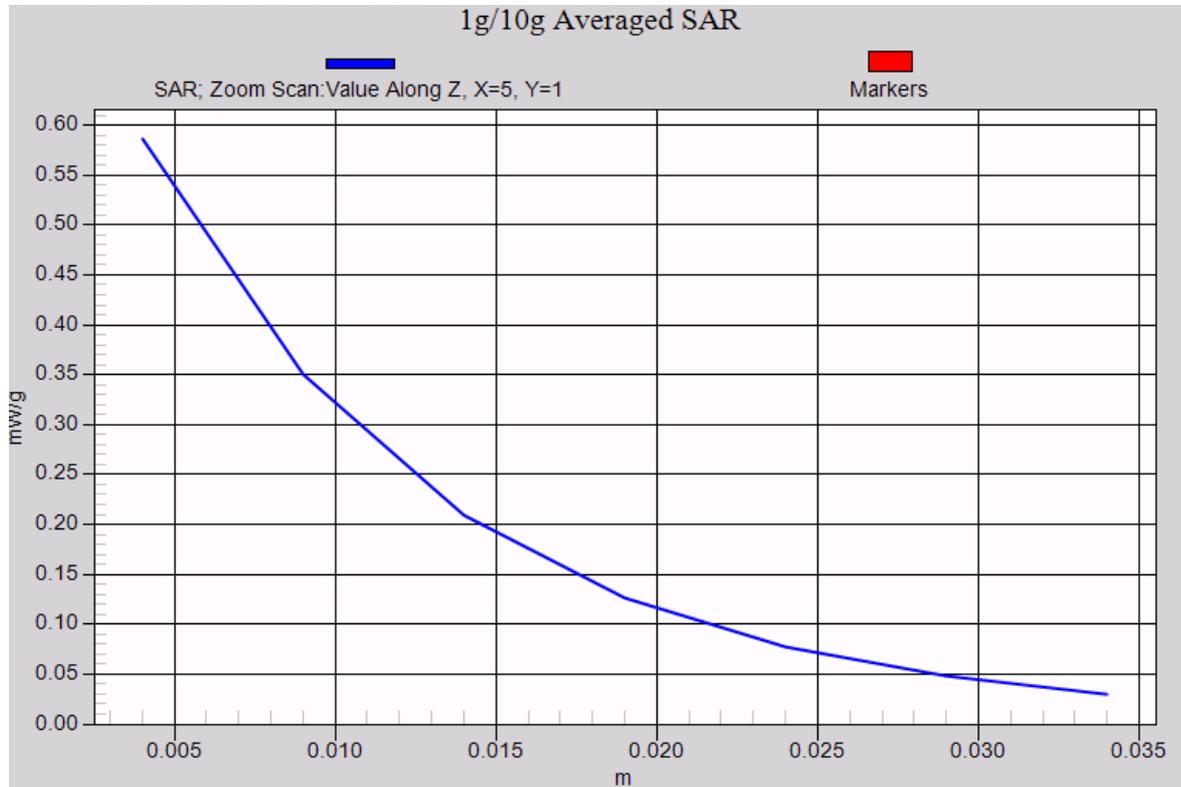
ambient temperature: 22.0°C; liquid temperature: 21.5°C

**Annex 2.7 Z-axis scans**

**GSM 1900 head:**

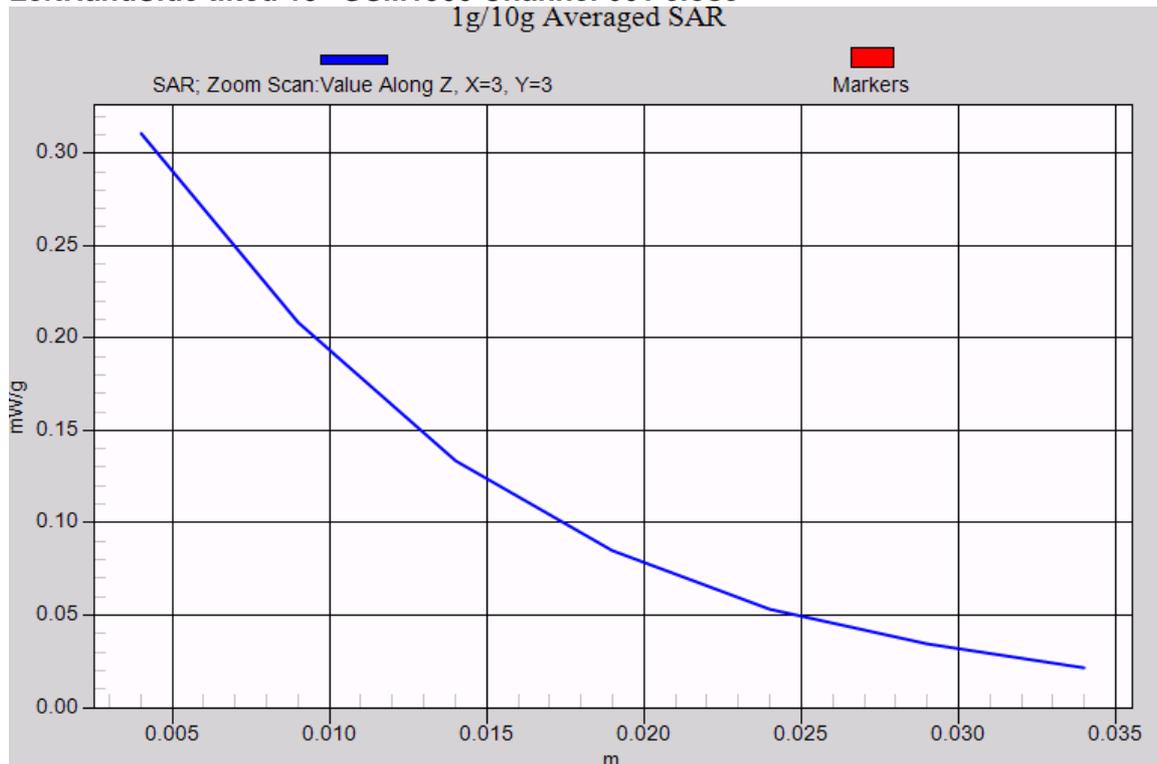
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**

**LeftHandSide touched -GSM1900 Channel 661 close**

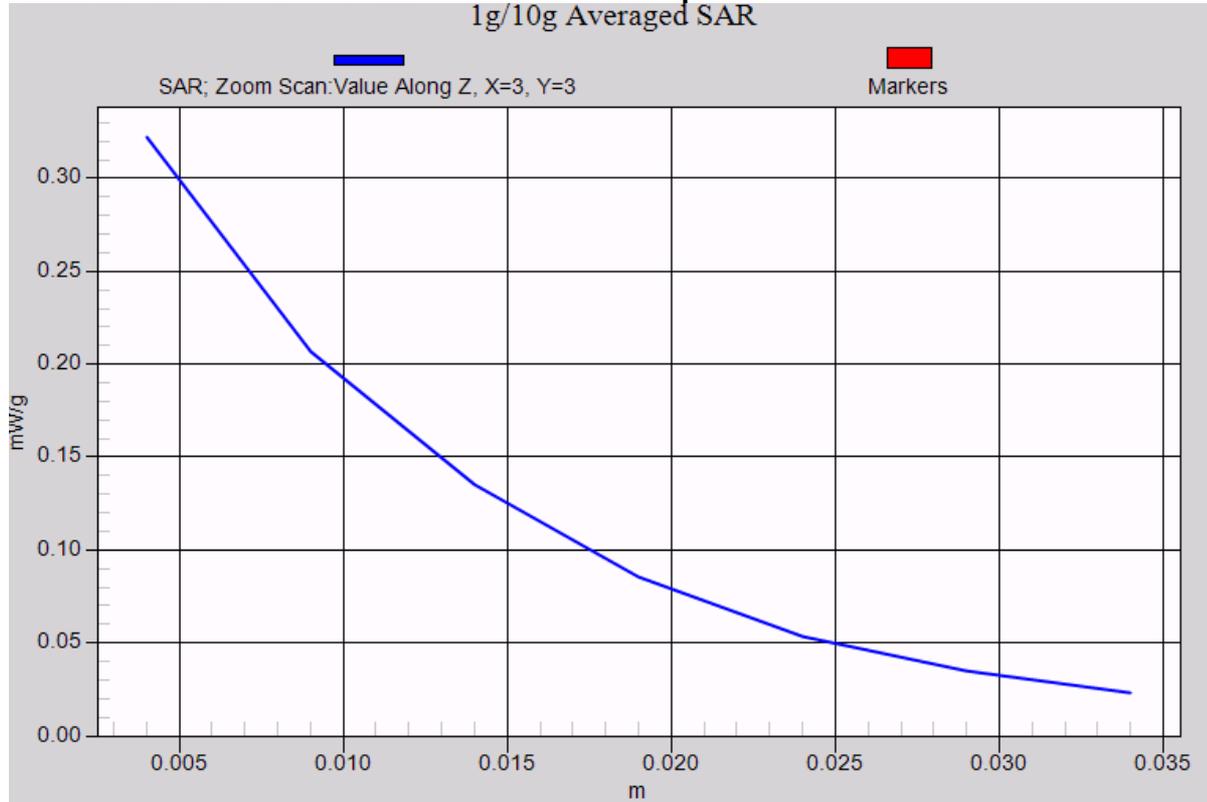


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**

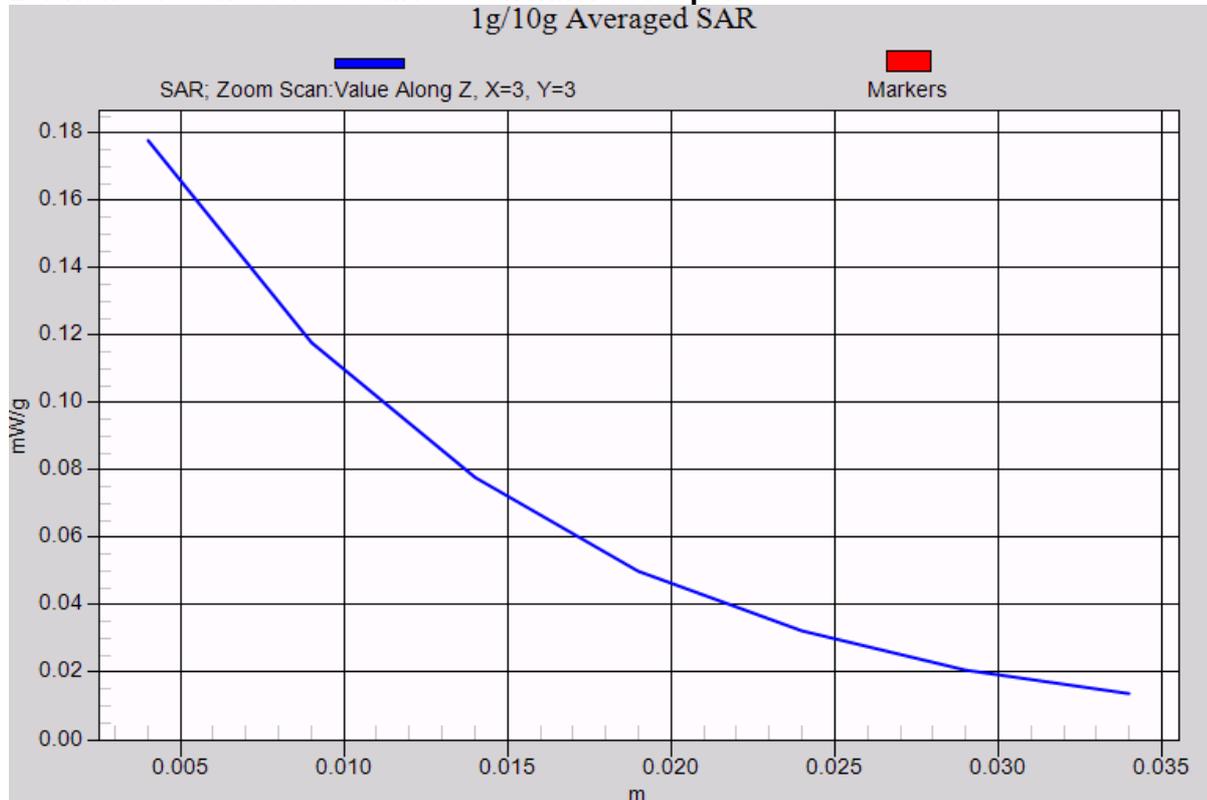
**LeftHandSide tilted 15°-GSM1900 Channel 661 close**



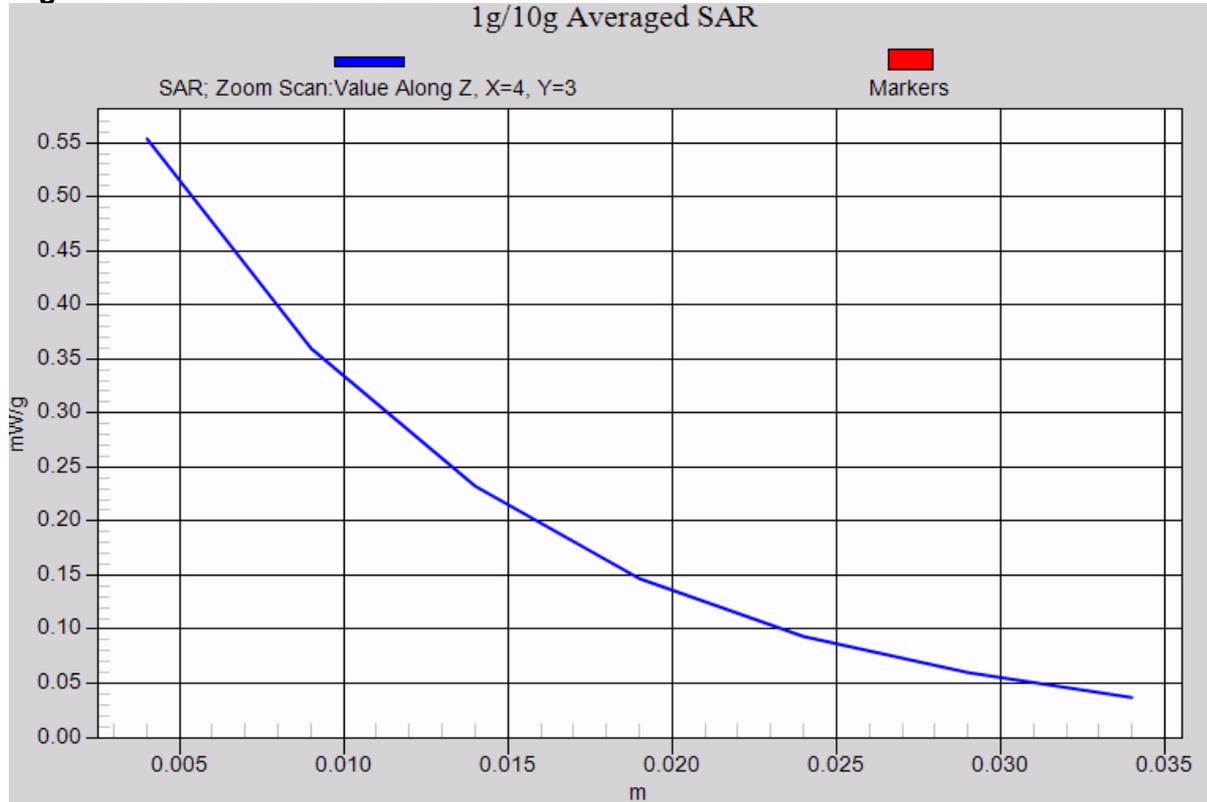
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide touched-GSM1900 Channel 661 open**  
1g/10g Averaged SAR



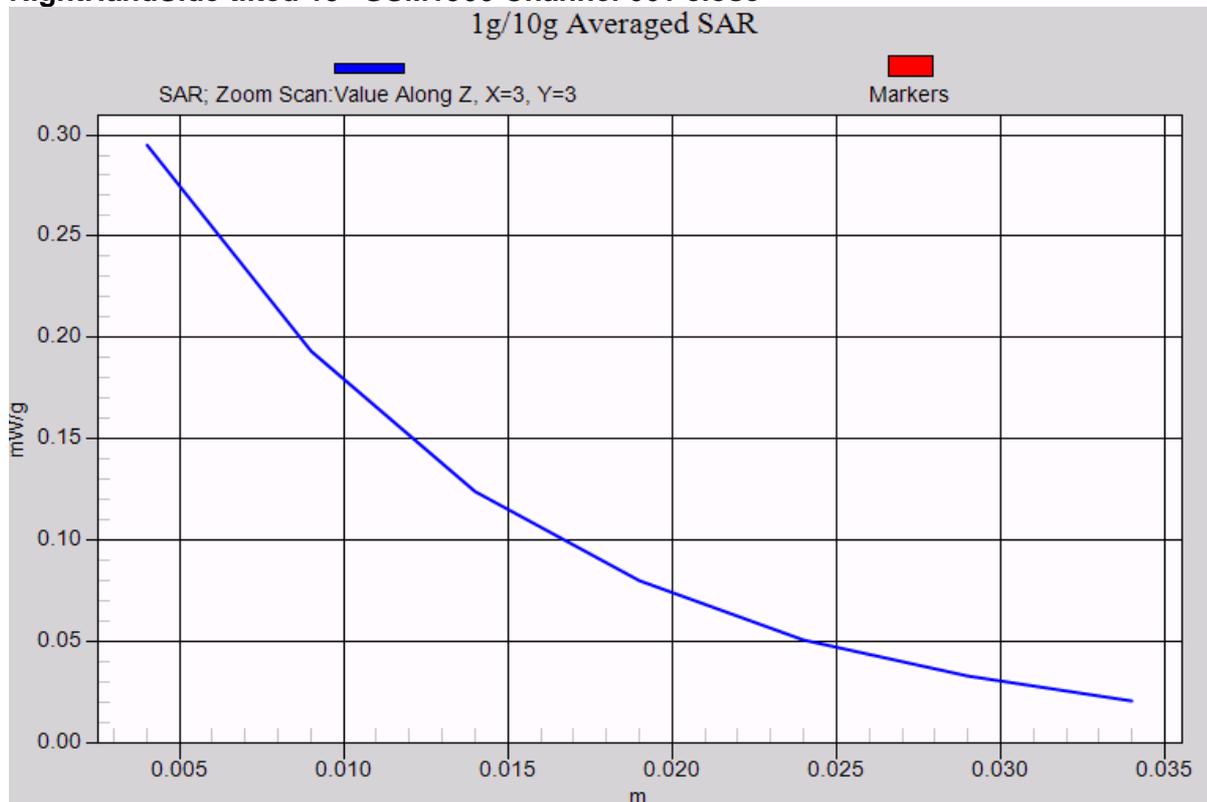
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide tilted 15°-GSM1900 Channel 661 open**  
1g/10g Averaged SAR



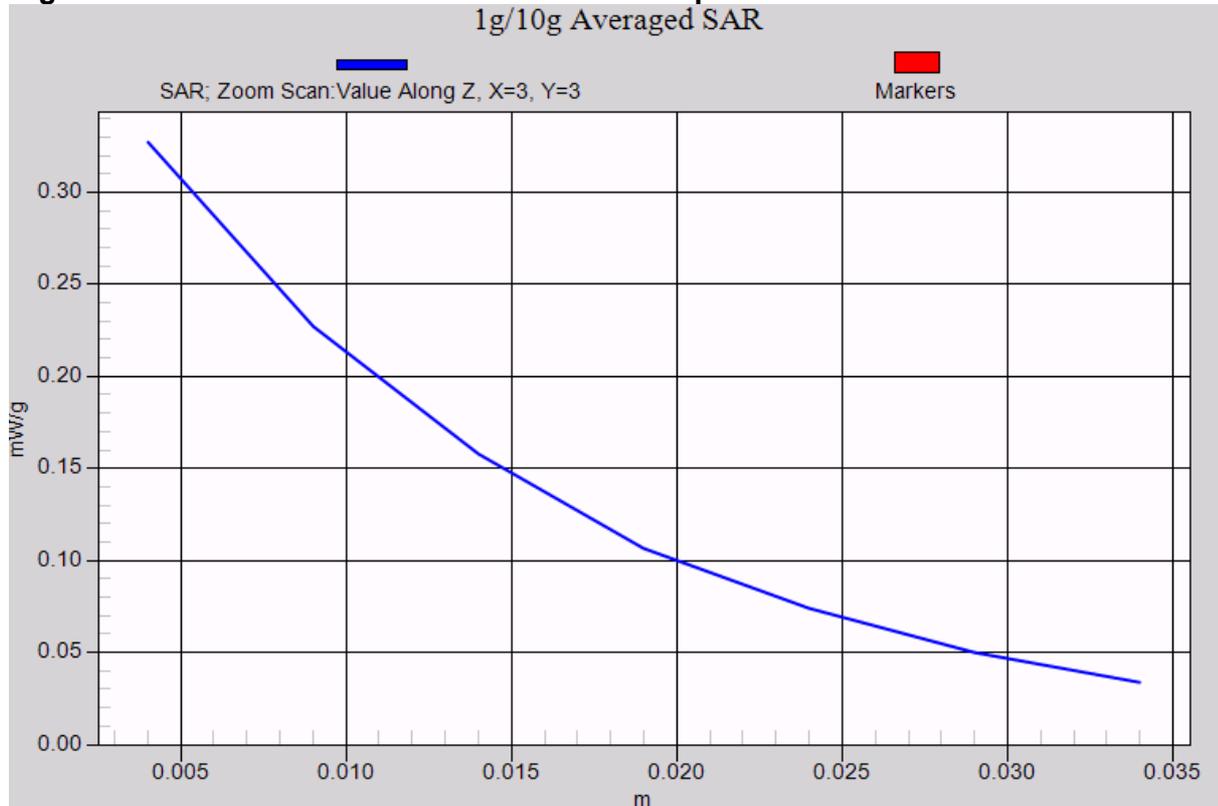
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched-GSM1900 Channel 661 close**  
1g/10g Averaged SAR



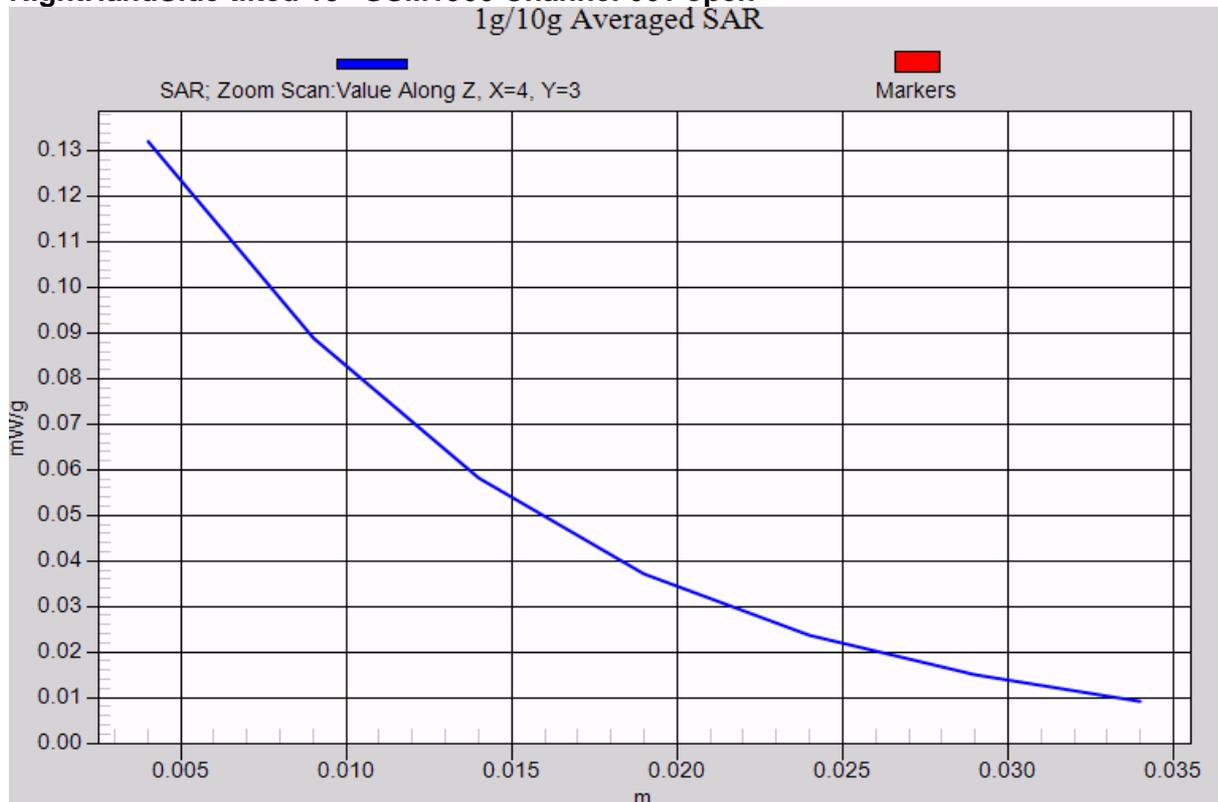
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide tilted 15°-GSM1900 Channel 661 close**  
1g/10g Averaged SAR



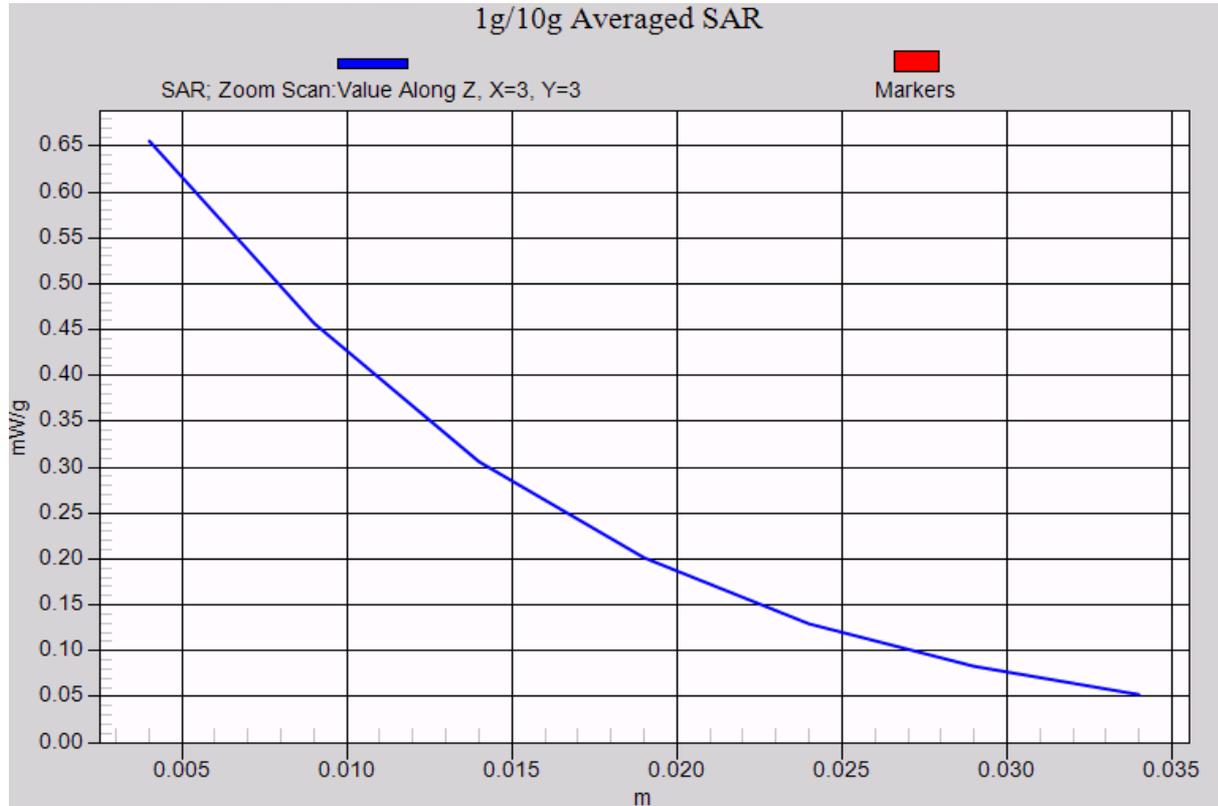
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched-GSM1900 Channel 661 open**



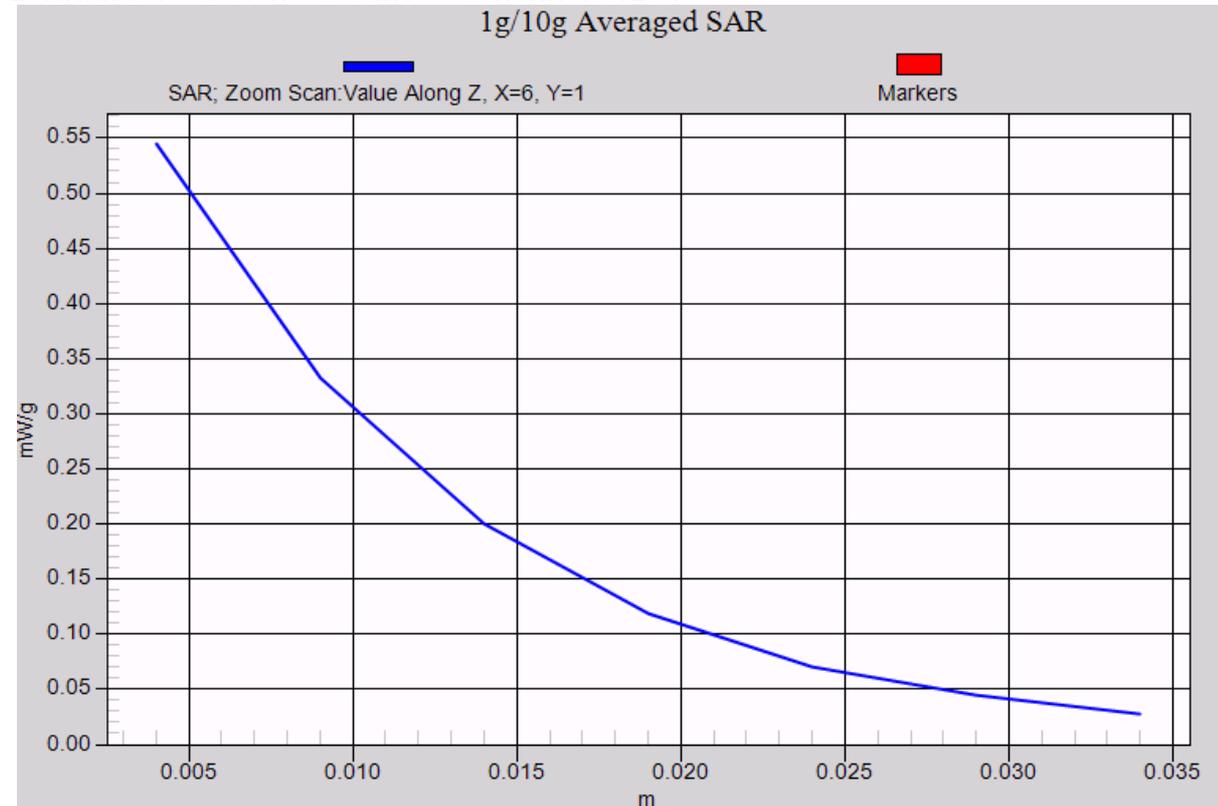
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide tilted 15°-GSM1900 Channel 661 open**



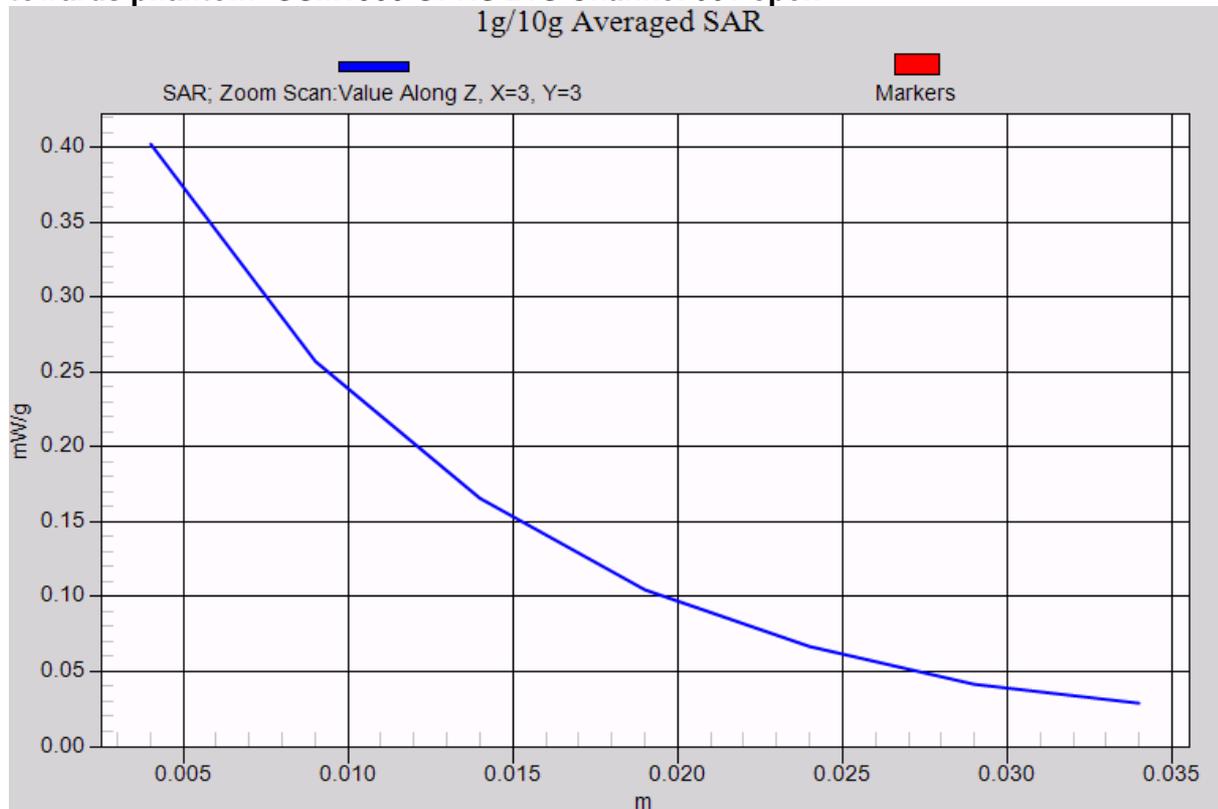
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide touched-GSM1900 Channel 810 close**



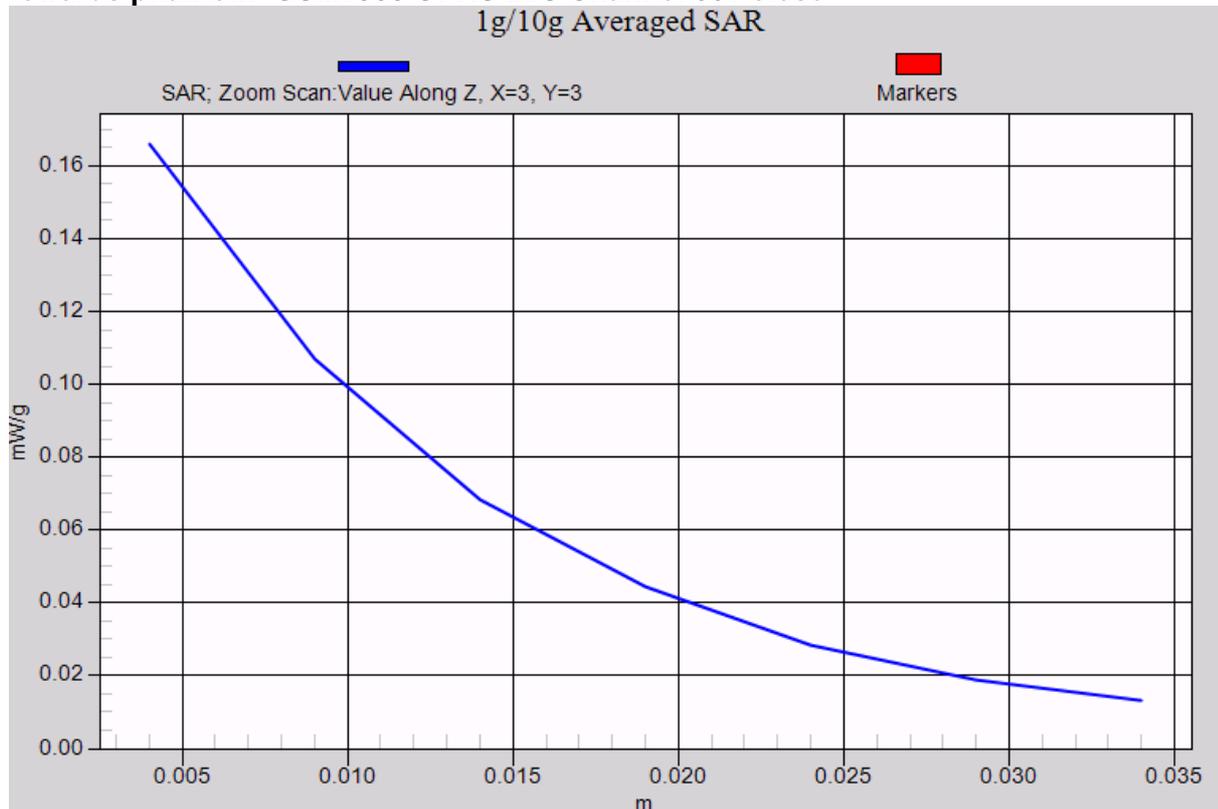
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide touched-GSM1900 Channel 512 close**

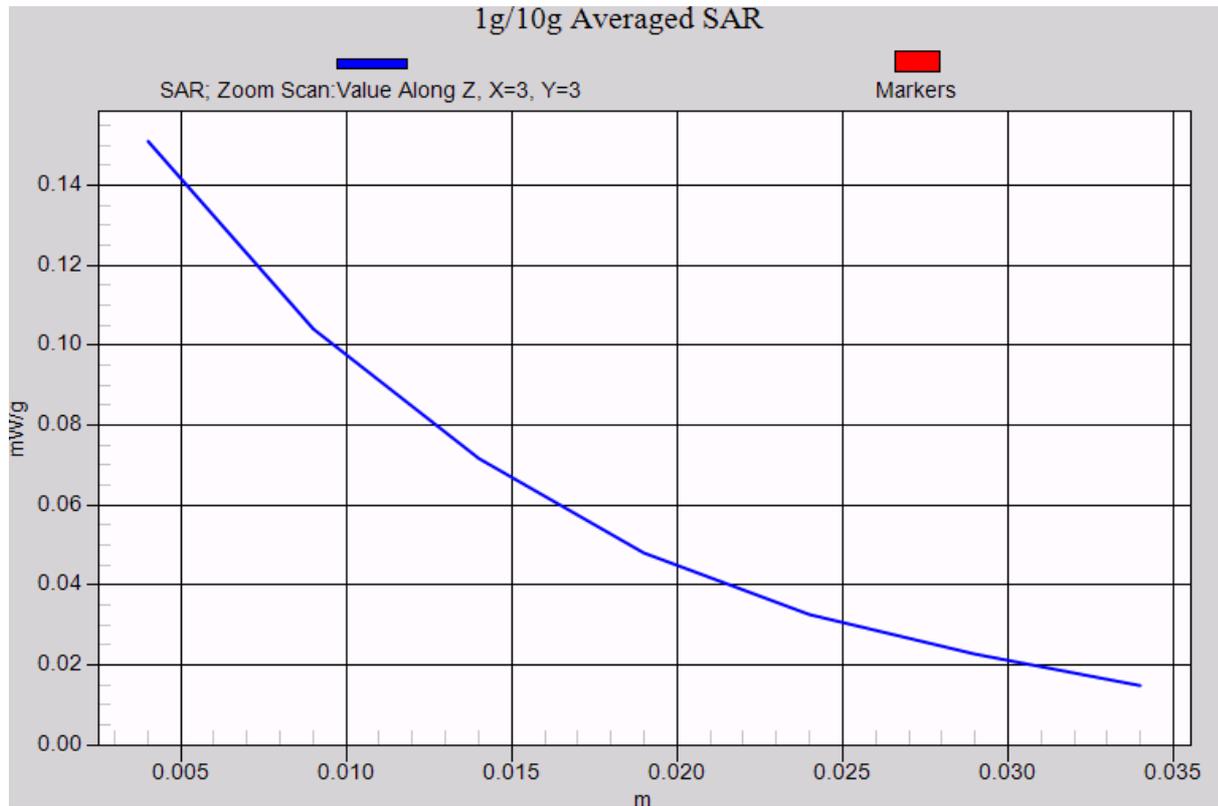


**GSM1900 body:**  
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards phantom- GSM1900 GPRS 2TS Channel 661 open**

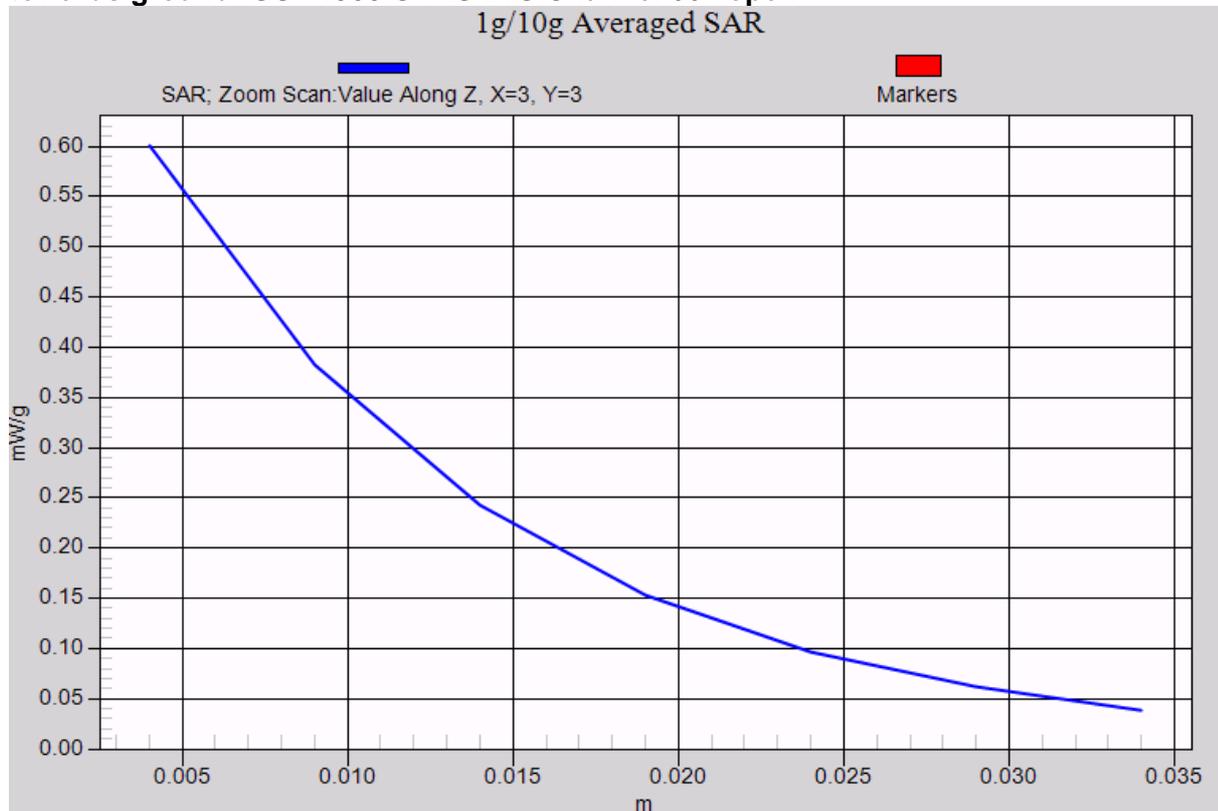


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards phantom- GSM1900 GPRS 2TS Channel 661 close**

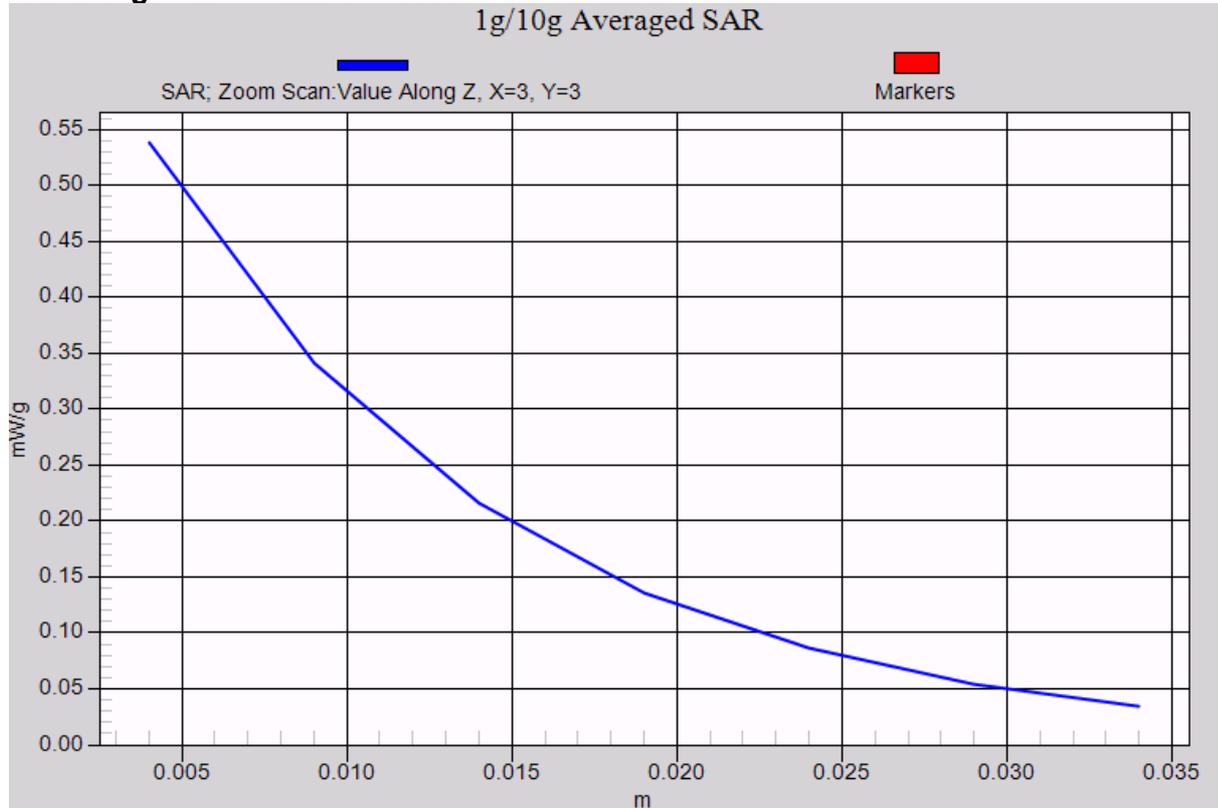




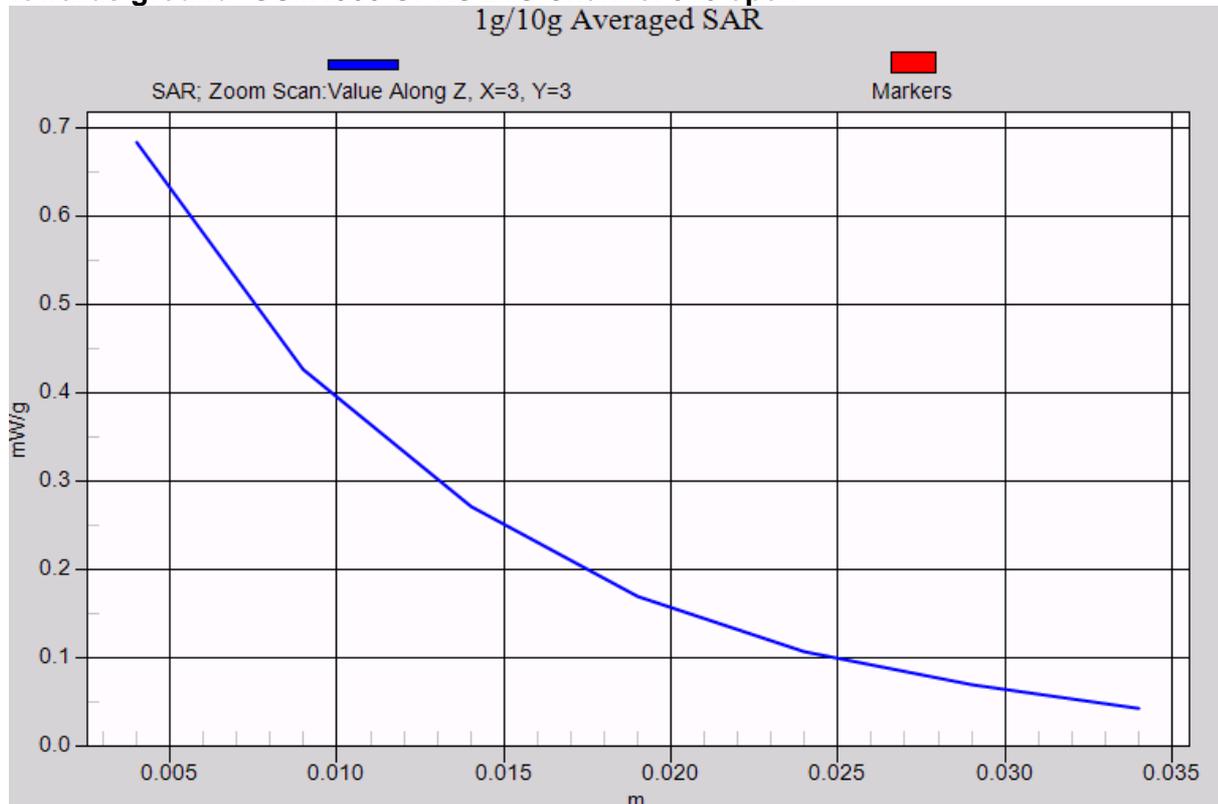
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
towards ground- GSM1900 GPRS 2TS Channel 661 open**



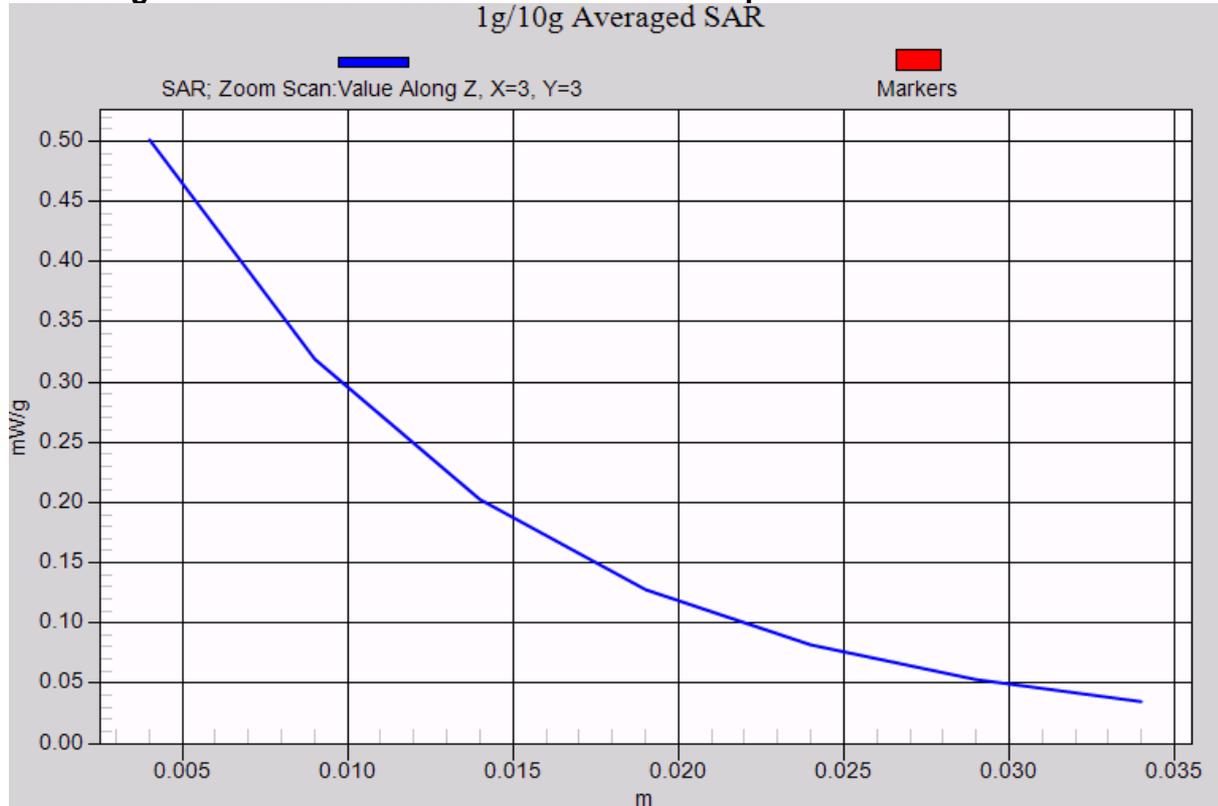
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards ground- GSM1900 GPRS 2TS Channel 661 close**



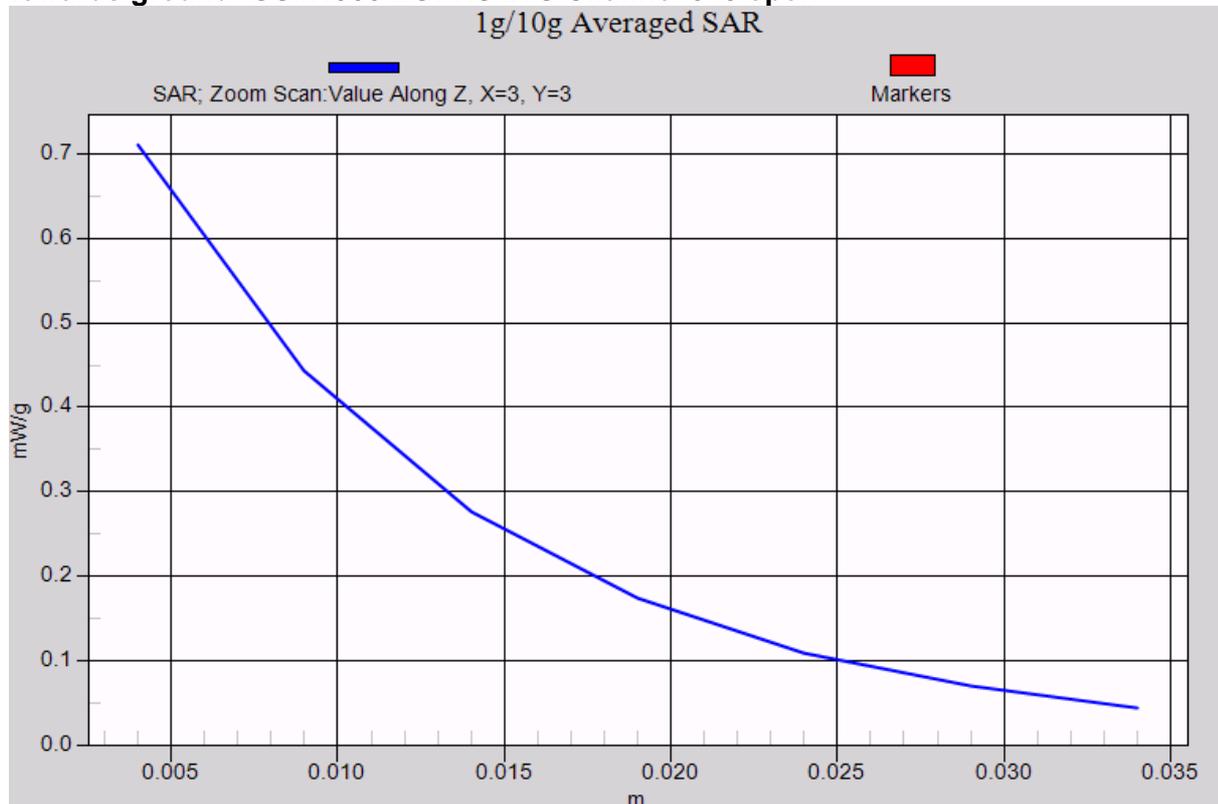
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards ground- GSM1900 GPRS 2TS Channel 810 open**



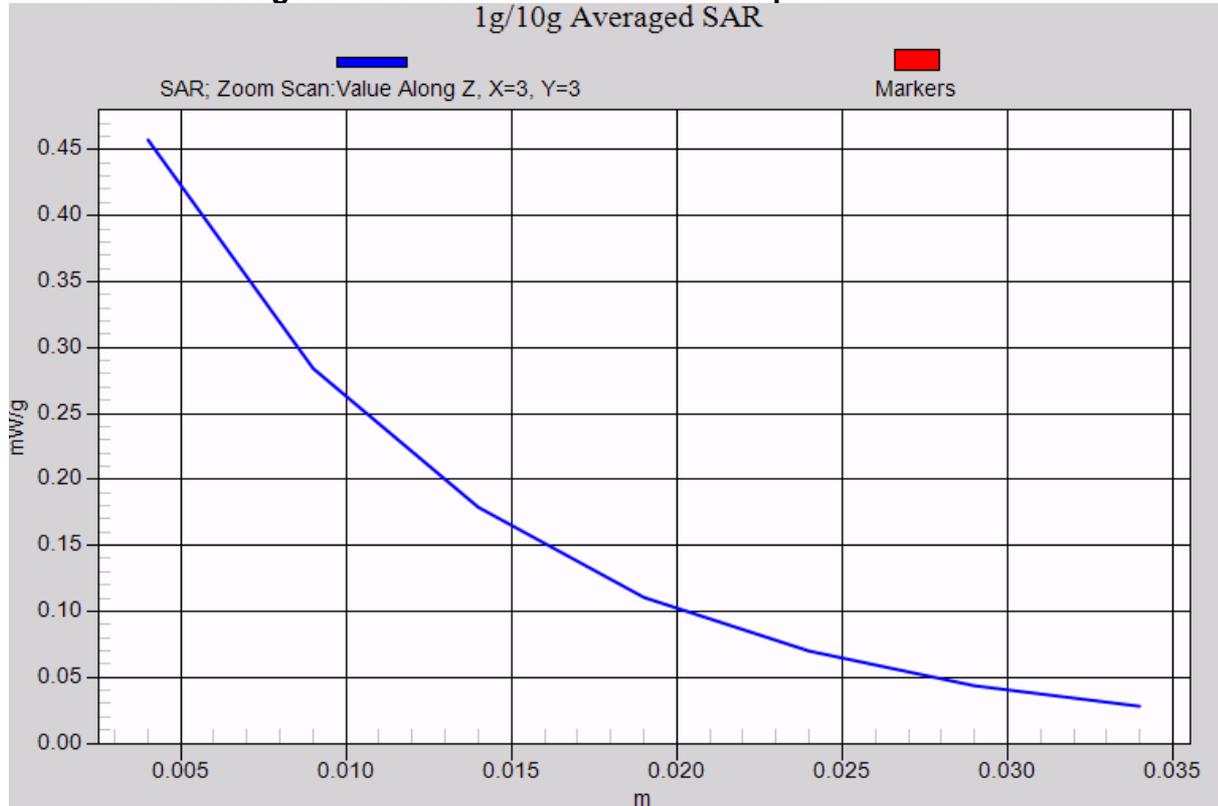
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards ground- GSM1900 GPRS 2TS Channel 512 open**  
1g/10g Averaged SAR



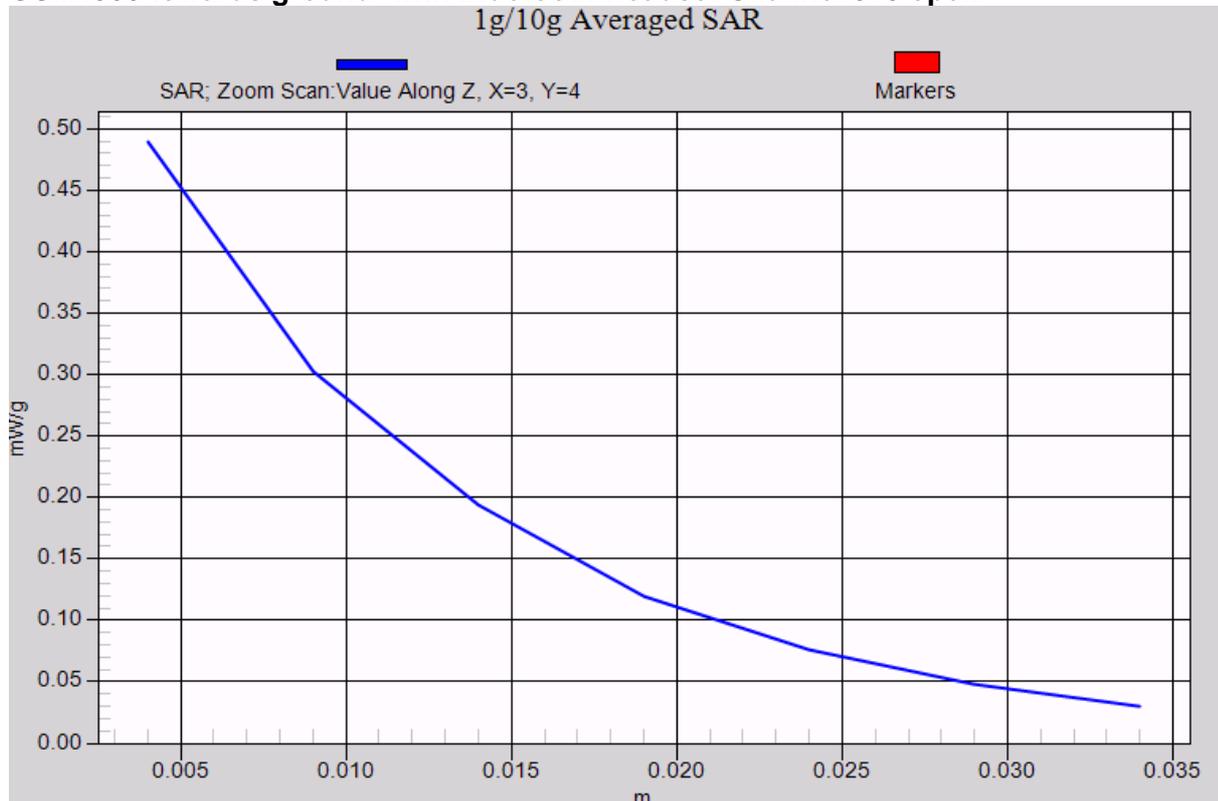
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards ground- GSM1900 EGPRS 2TS Channel 810 open**  
1g/10g Averaged SAR



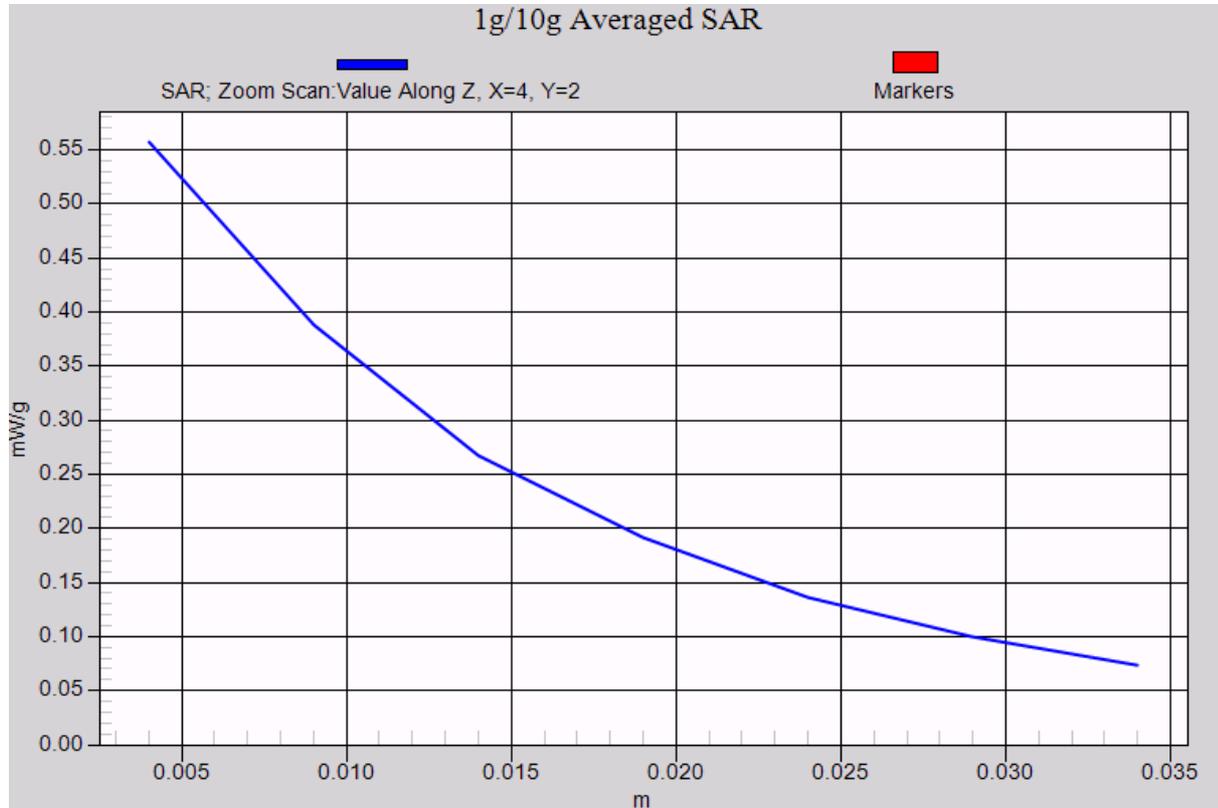
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**GSM1900 towards ground-with Headset Channel 810 open**



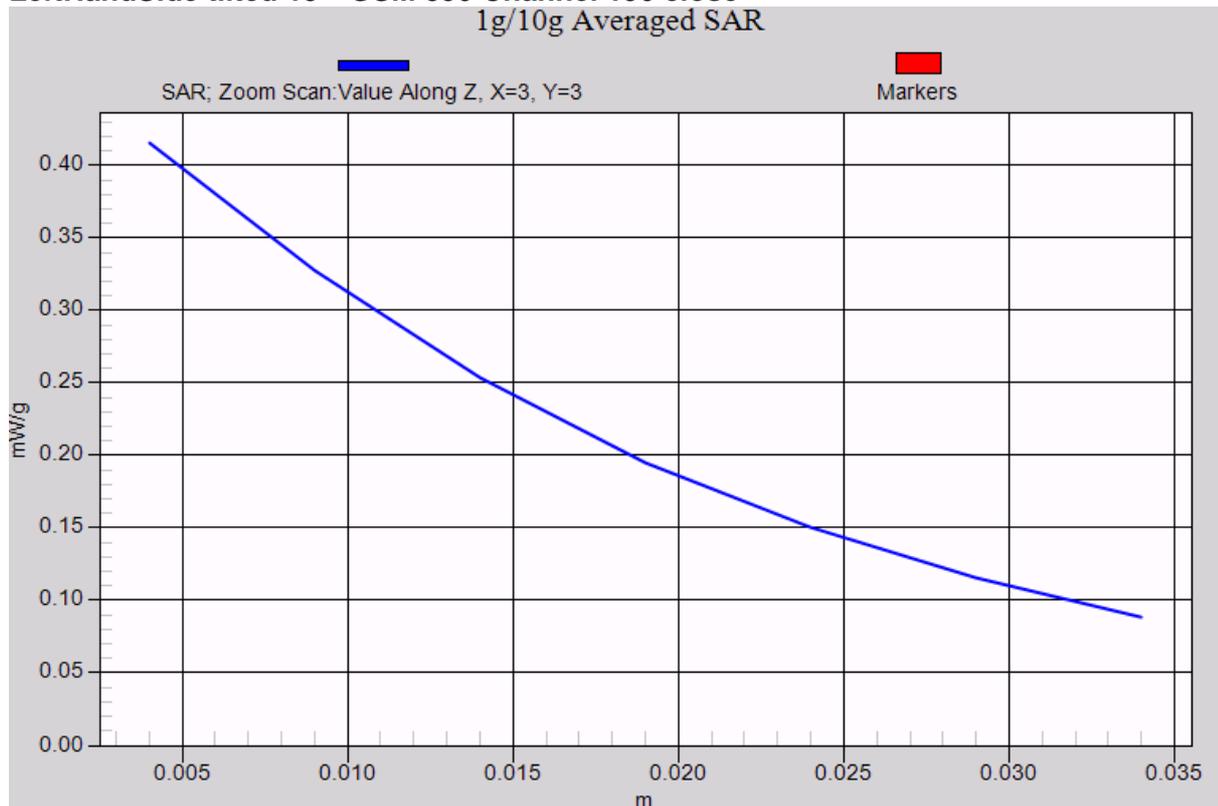
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**GSM1900 towards ground- with Bluetooth Headset Channel 810 open**



**GSM 850 head:**  
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide touched - GSM 850 Channel 190 close**

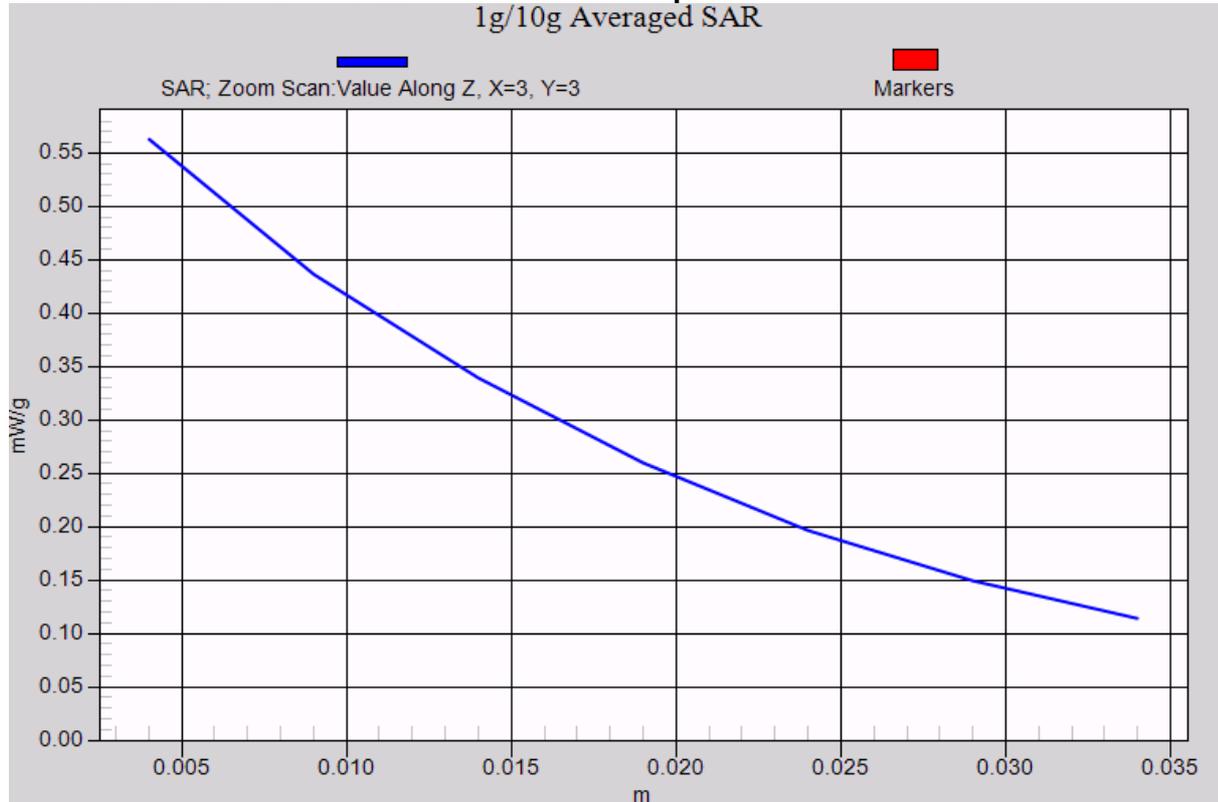


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide tilted 15° - GSM 850 Channel 190 close**

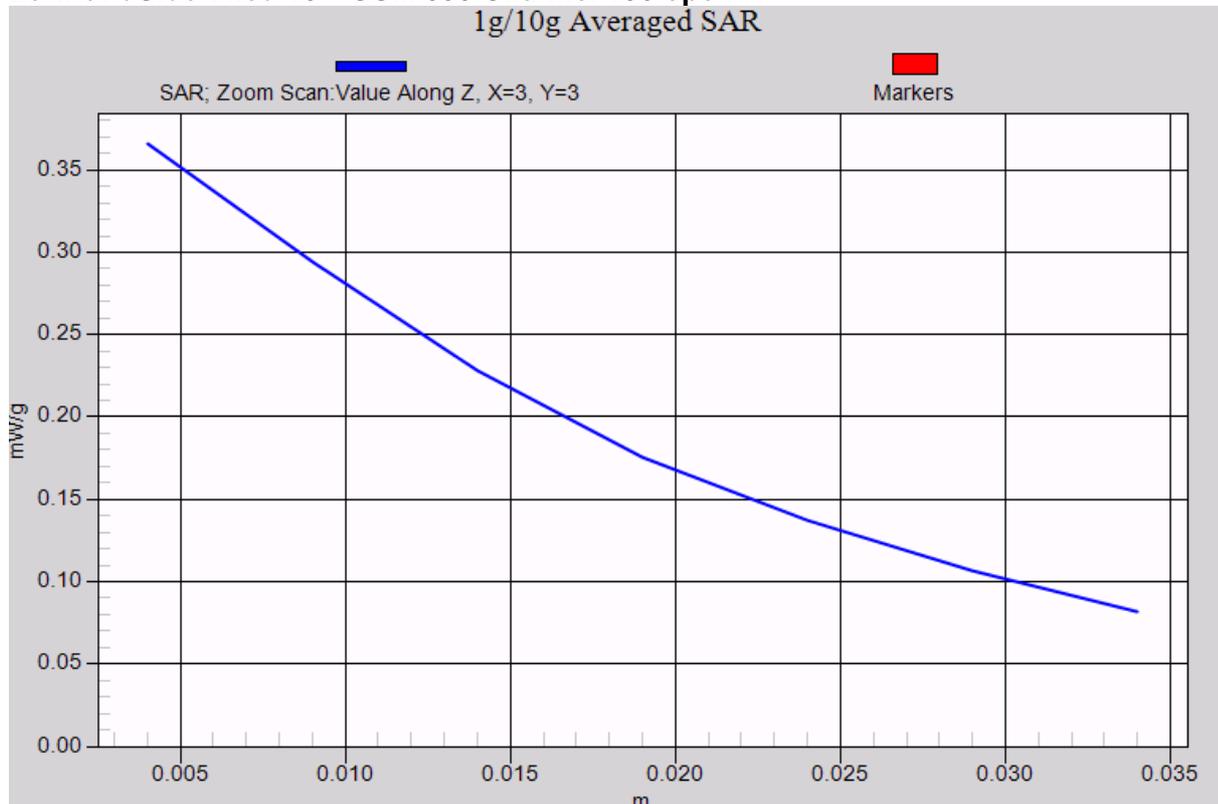


Test report no.: SYBH(Z-SAR)010072010

**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide touched- GSM 850 Channel 190 open**

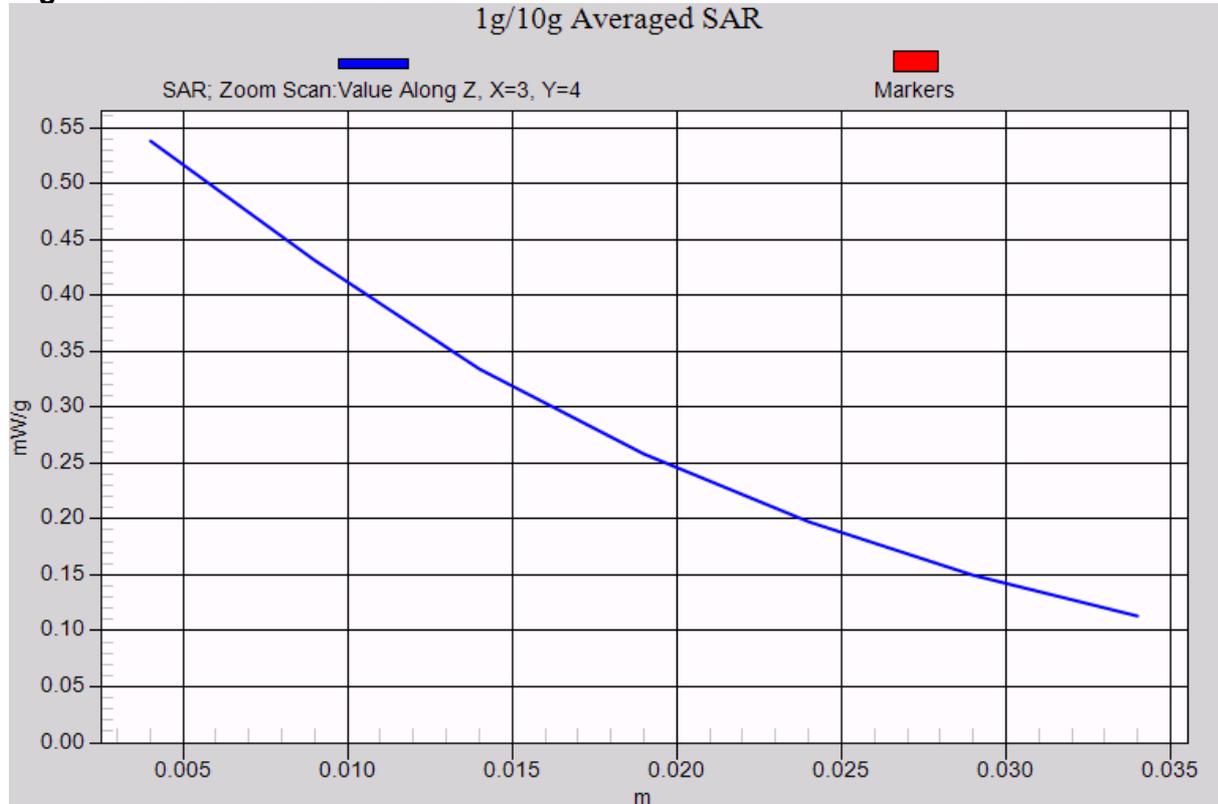


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide tilted 15°- GSM 850 Channel 190 open**

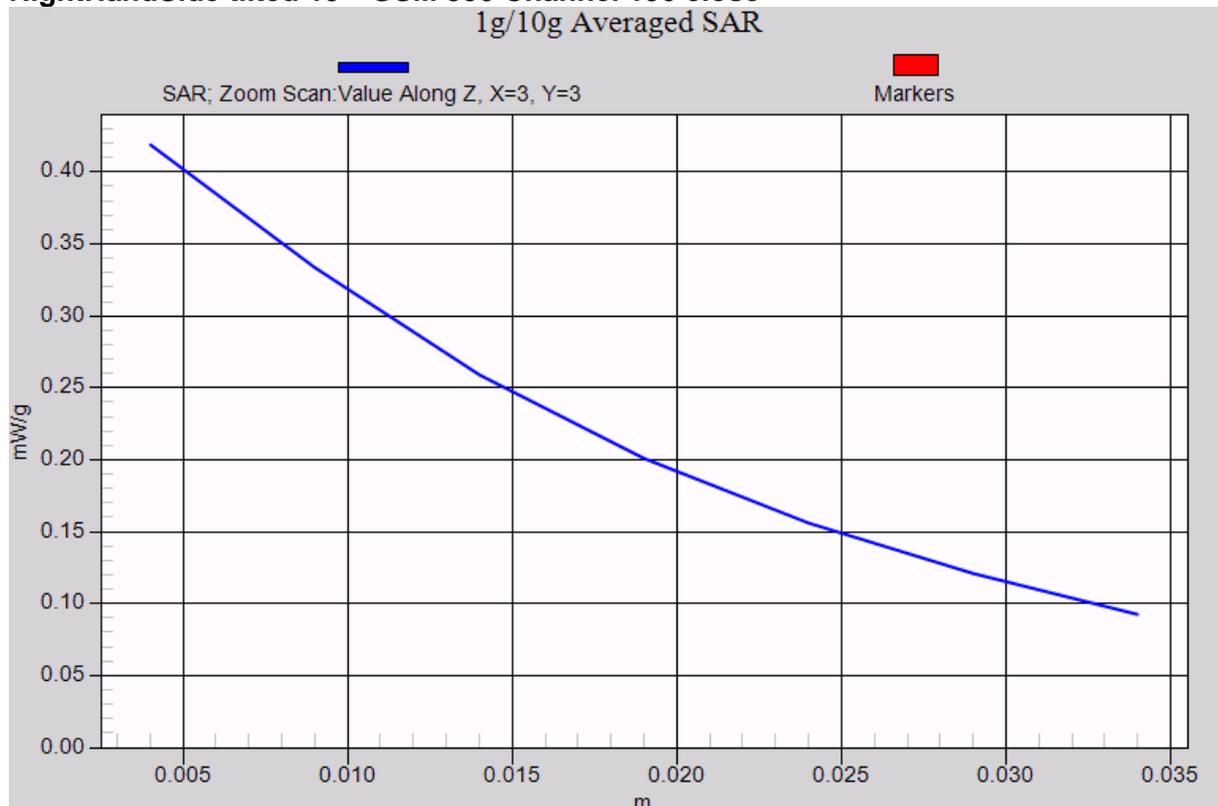


Test report no.: SYBH(Z-SAR)010072010

**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched- GSM 850 Channel 190 close**  
1g/10g Averaged SAR

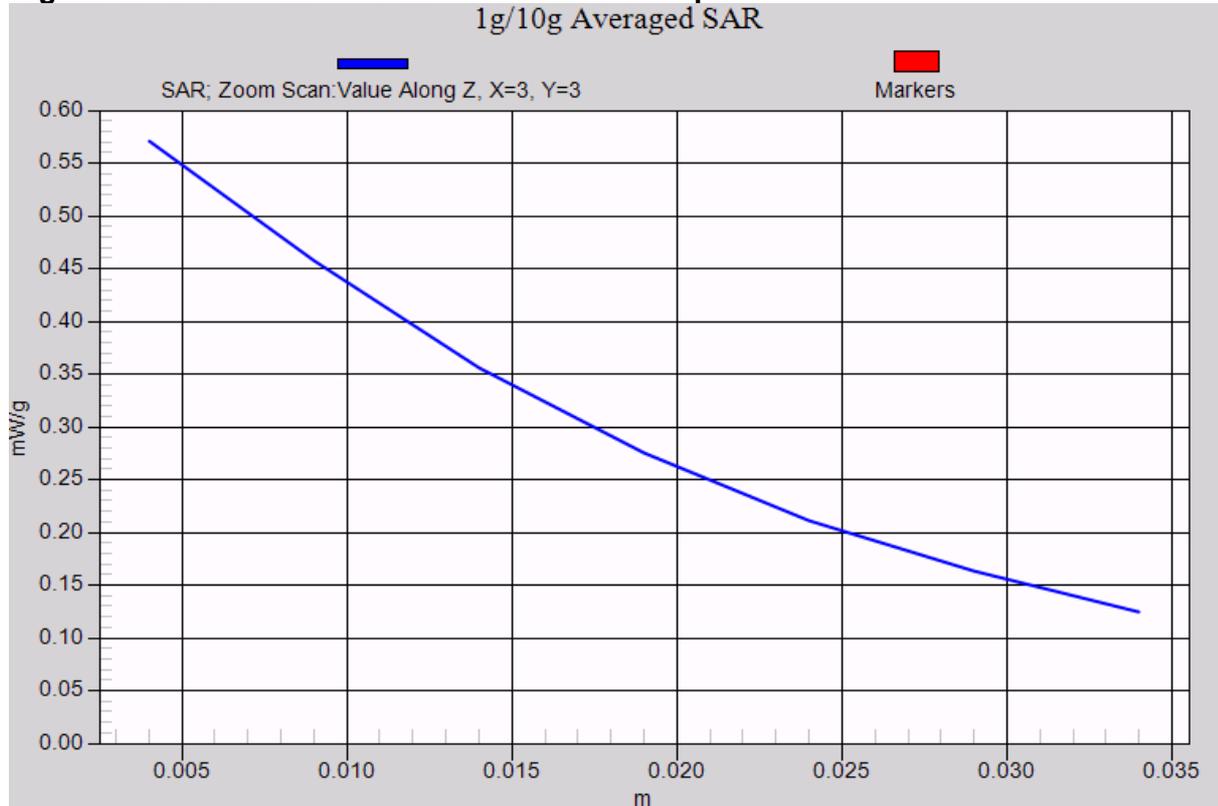


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide tilted 15°- GSM 850 Channel 190 close**  
1g/10g Averaged SAR

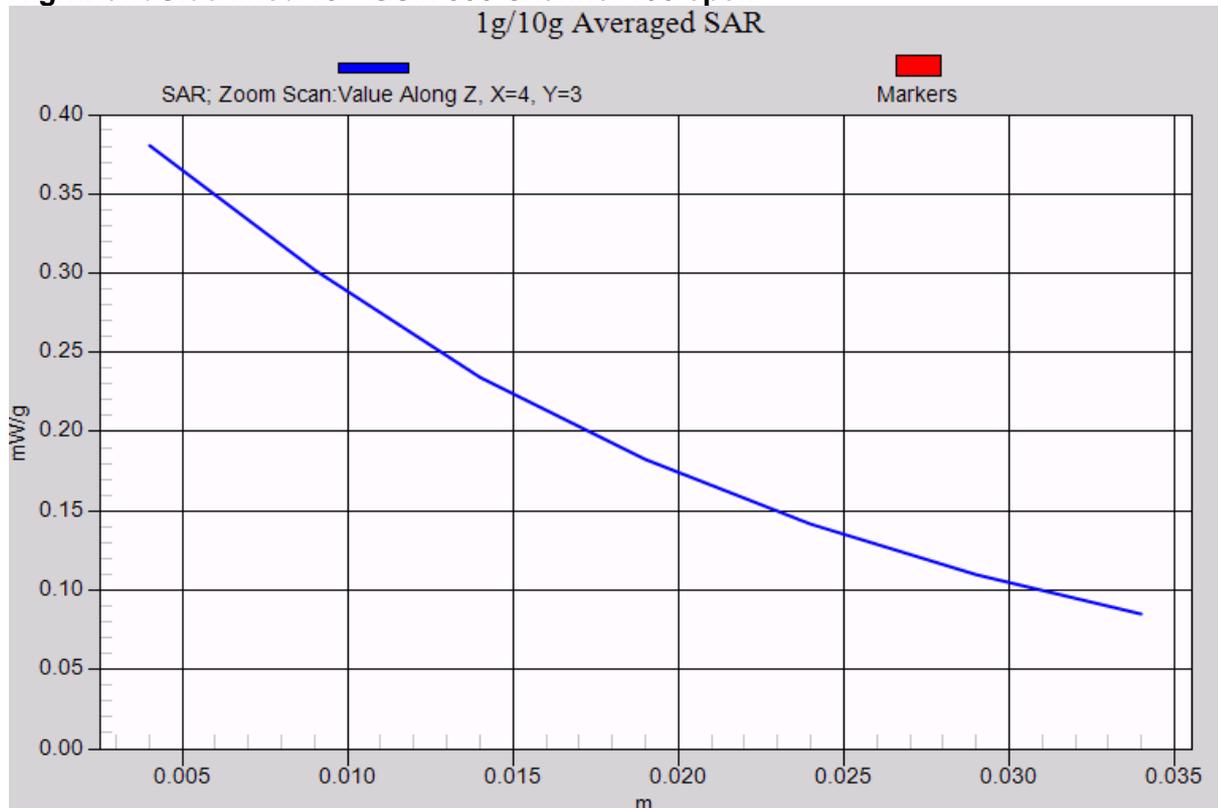


Test report no.: SYBH(Z-SAR)010072010

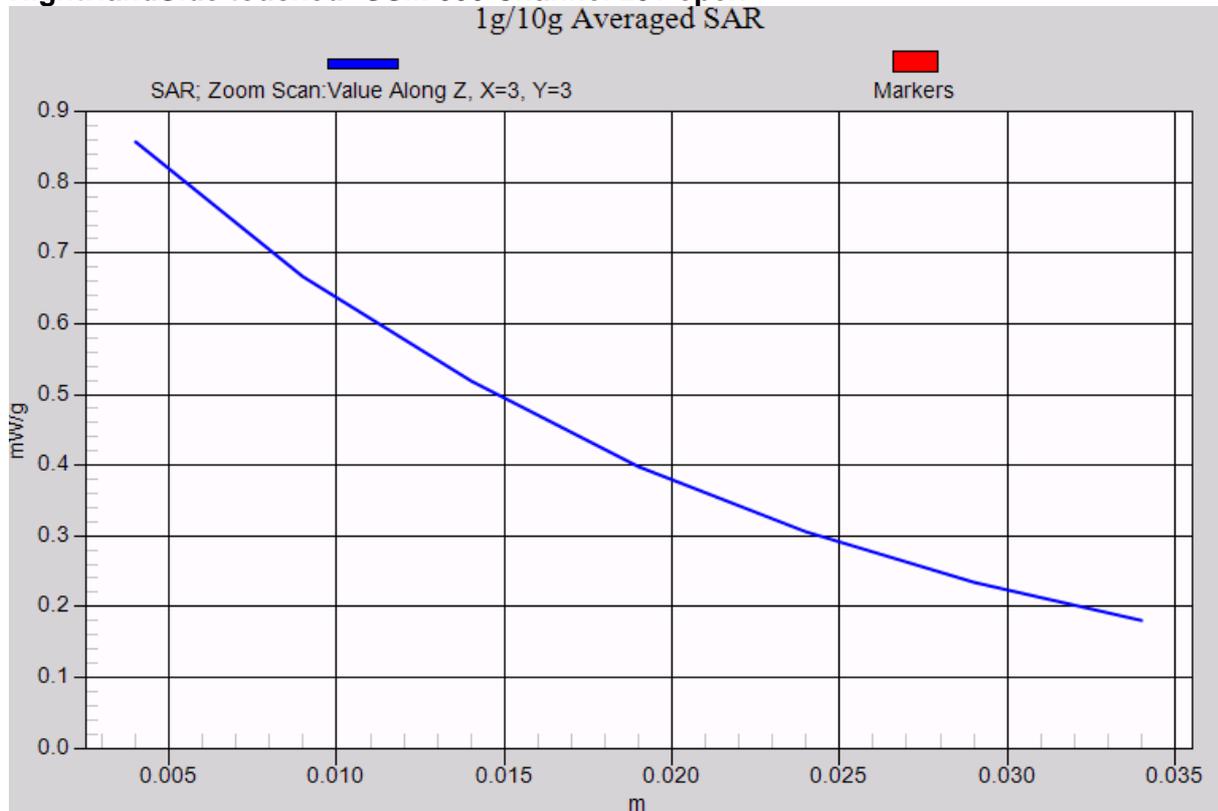
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched- GSM 850 Channel 190 open**  
1g/10g Averaged SAR



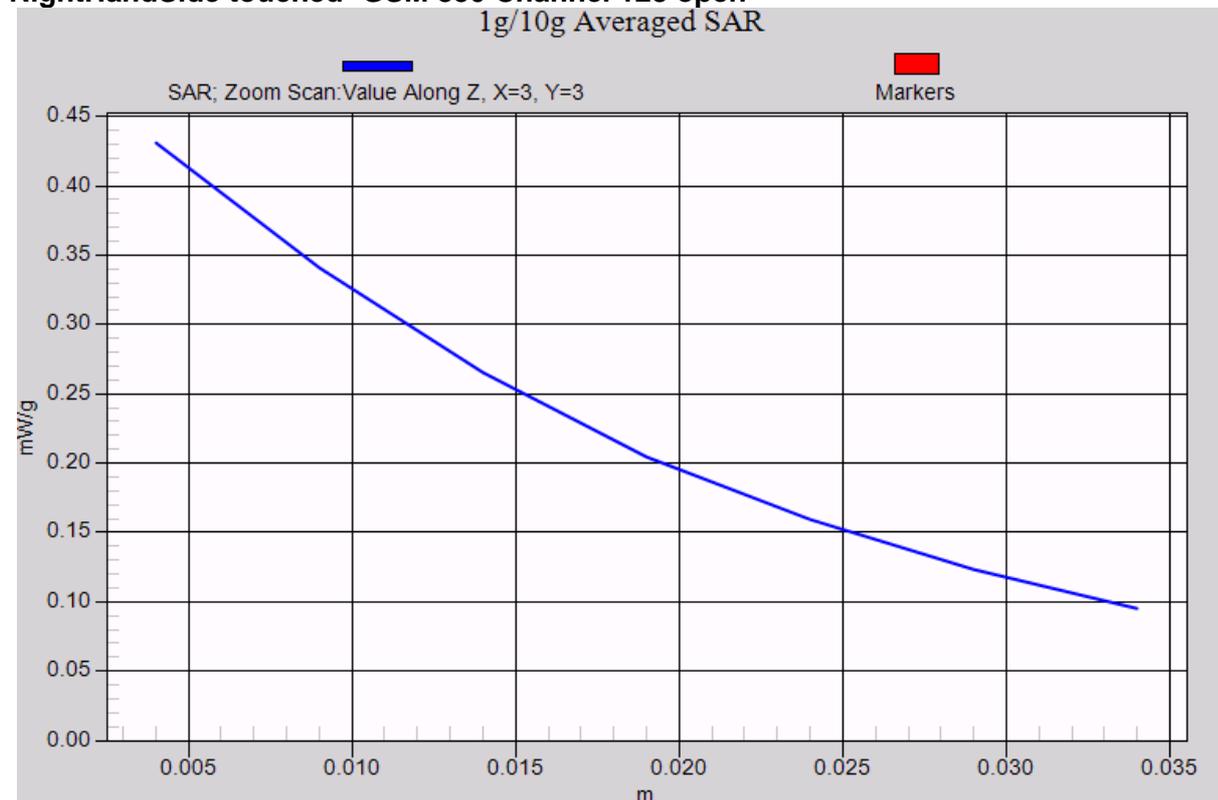
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide tilted 15°- GSM 850 Channel 190 open**  
1g/10g Averaged SAR



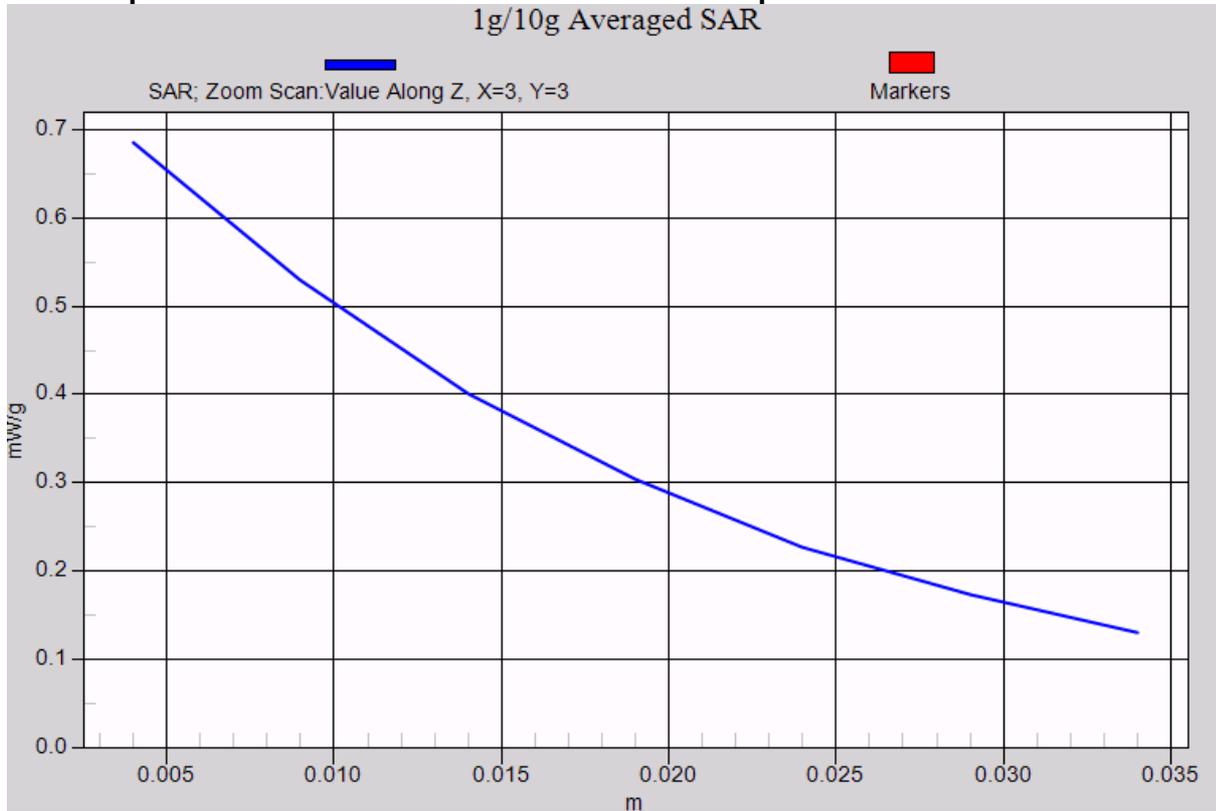
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched- GSM 850 Channel 251 open**  
1g/10g Averaged SAR



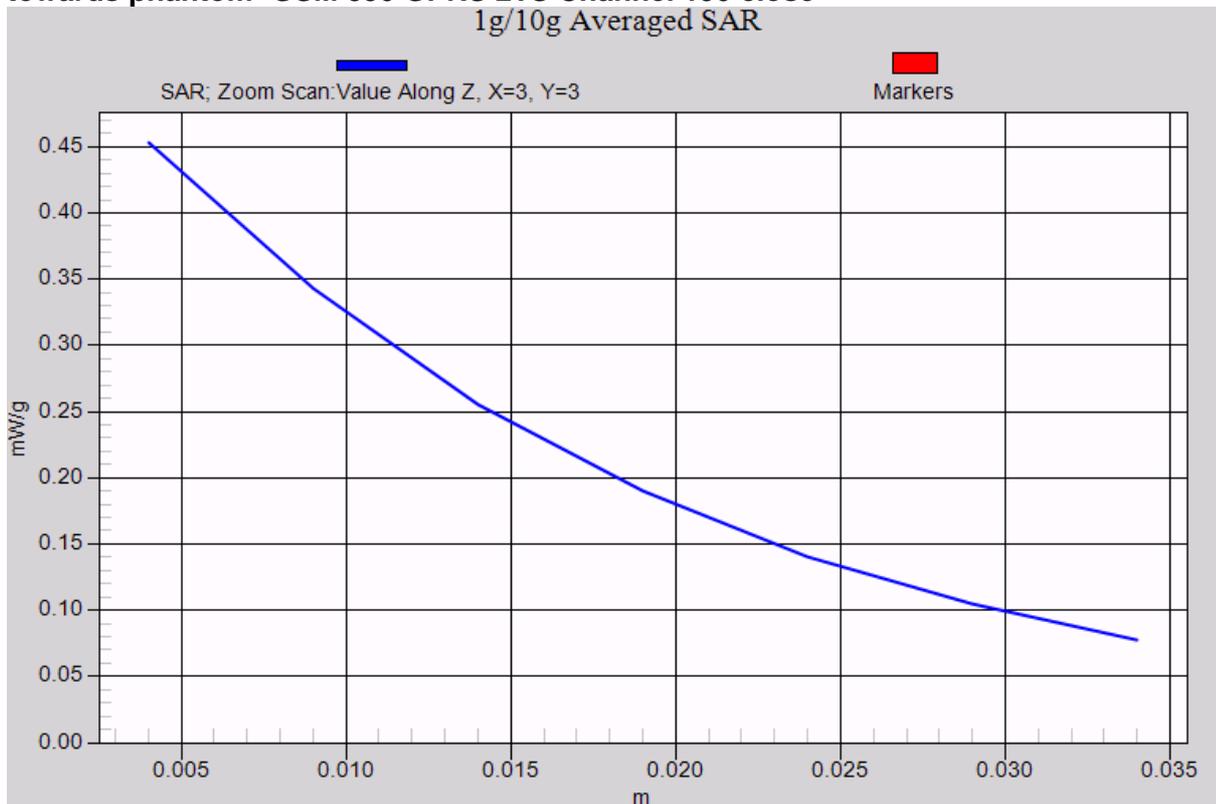
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched- GSM 850 Channel 128 open**  
1g/10g Averaged SAR



**GSM 850 body:**  
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards phantom- GSM 850 GPRS 2TS Channel 190 open**

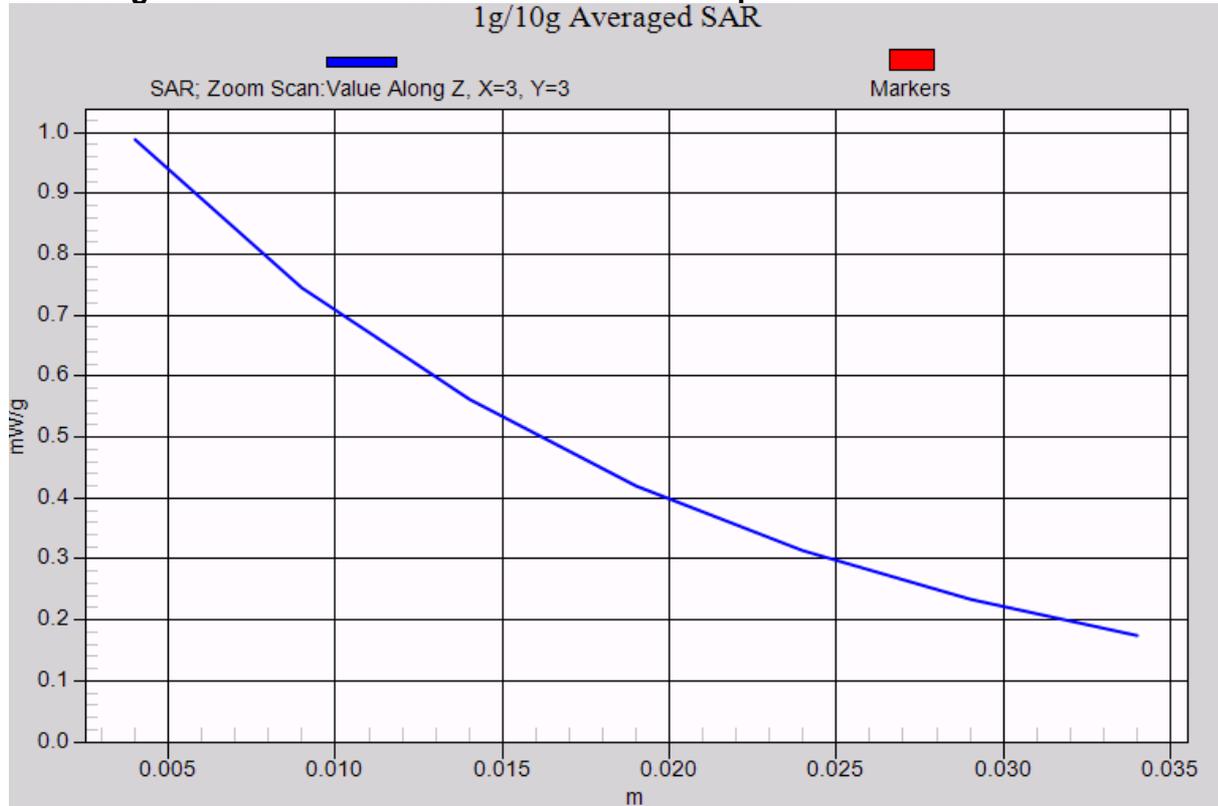


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards phantom- GSM 850 GPRS 2TS Channel 190 close**

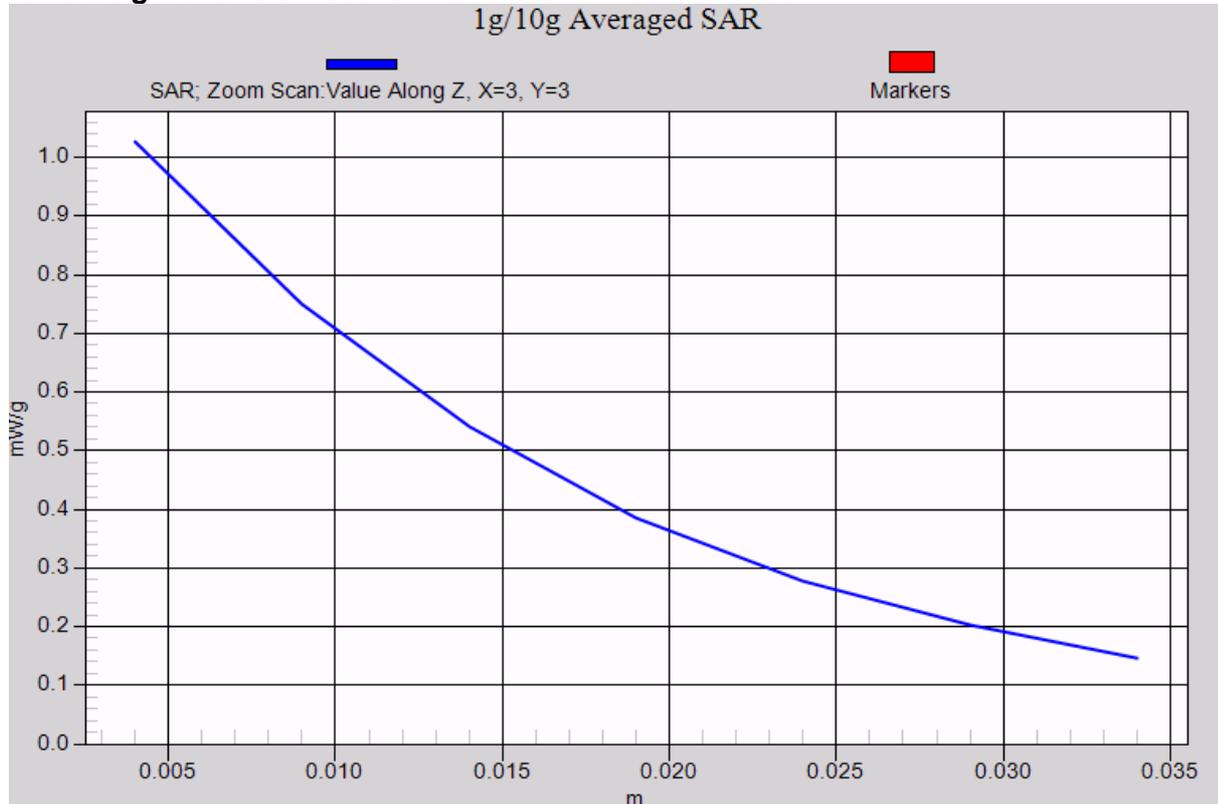


Test report no.: SYBH(Z-SAR)010072010

**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
towards ground- GSM 850 GPRS 2TS Channel 190 open**

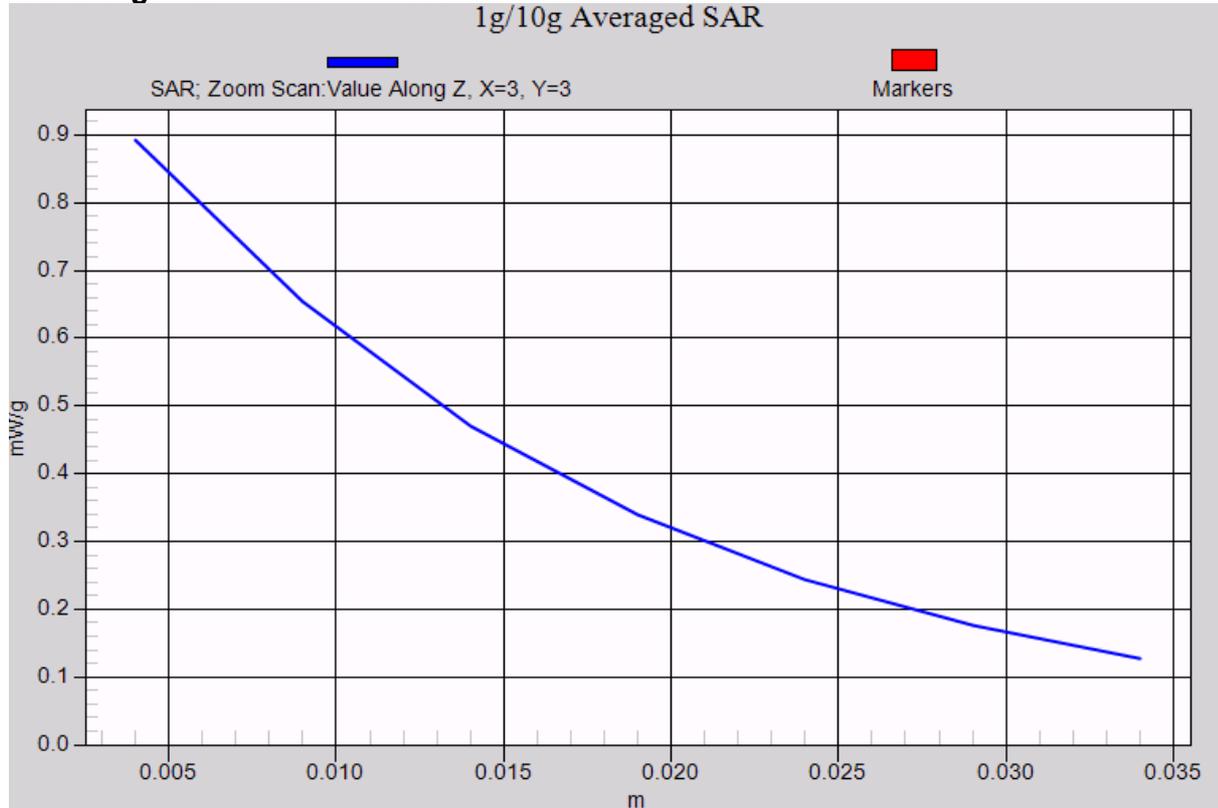


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
towards ground- GSM 850 GPRS 2TS Channel 190 close**

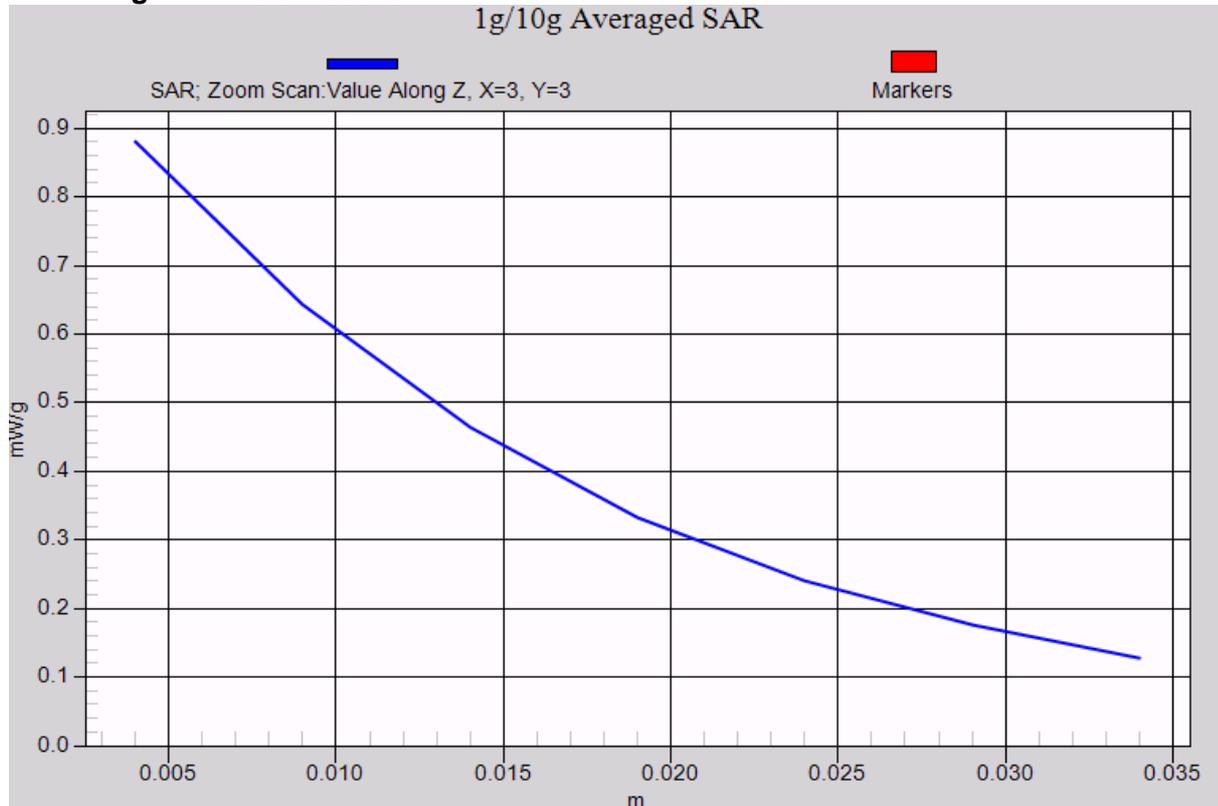


Test report no.: SYBH(Z-SAR)010072010

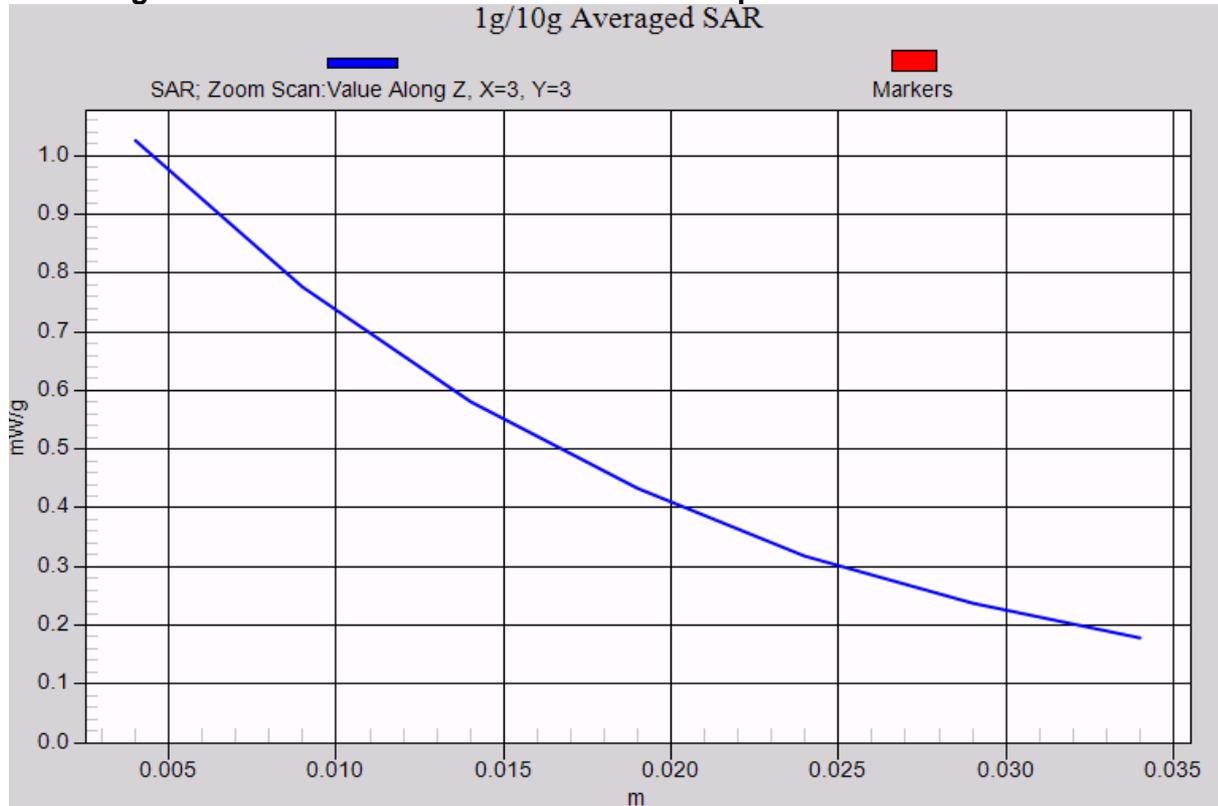
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards ground- GSM 850 GPRS 2TS Channel 251 close**  
1g/10g Averaged SAR



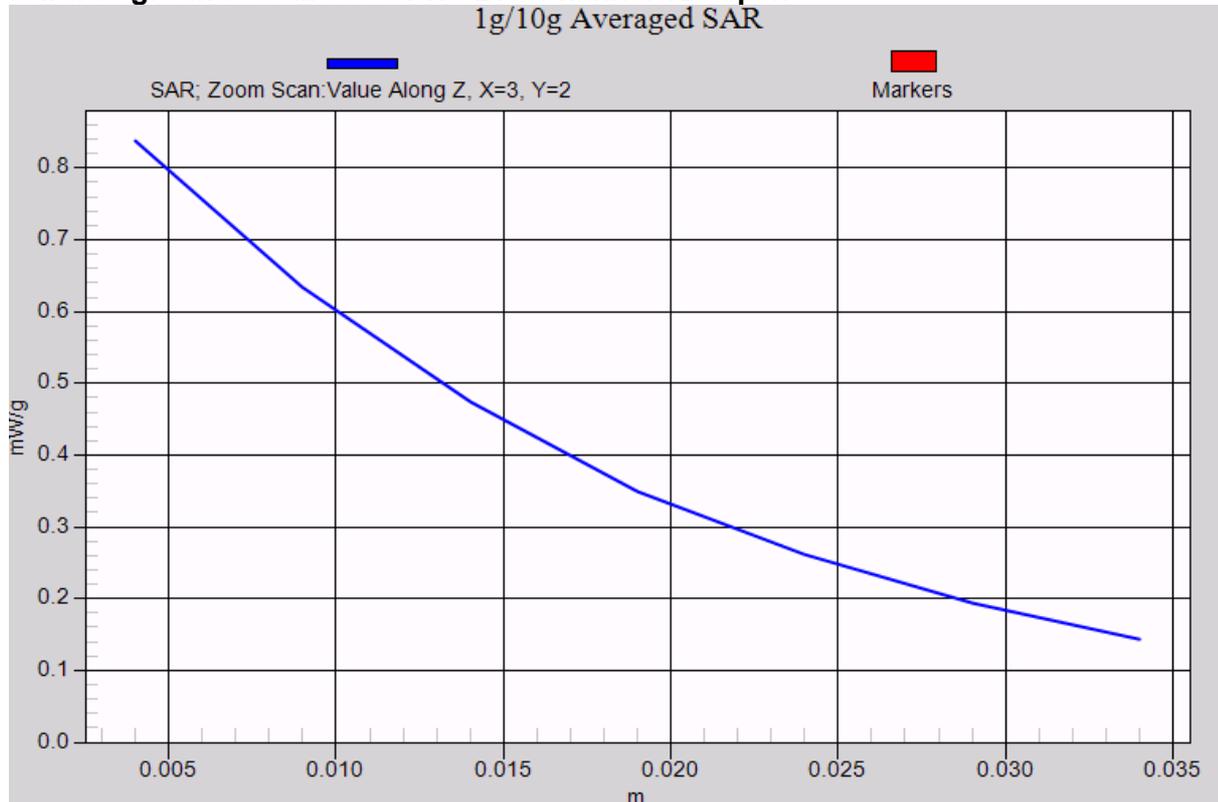
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards ground- GSM 850 GPRS 2TS Channel 128 close**  
1g/10g Averaged SAR



**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
towards ground- GSM 850 GPRS 2TS Channel 251 open**

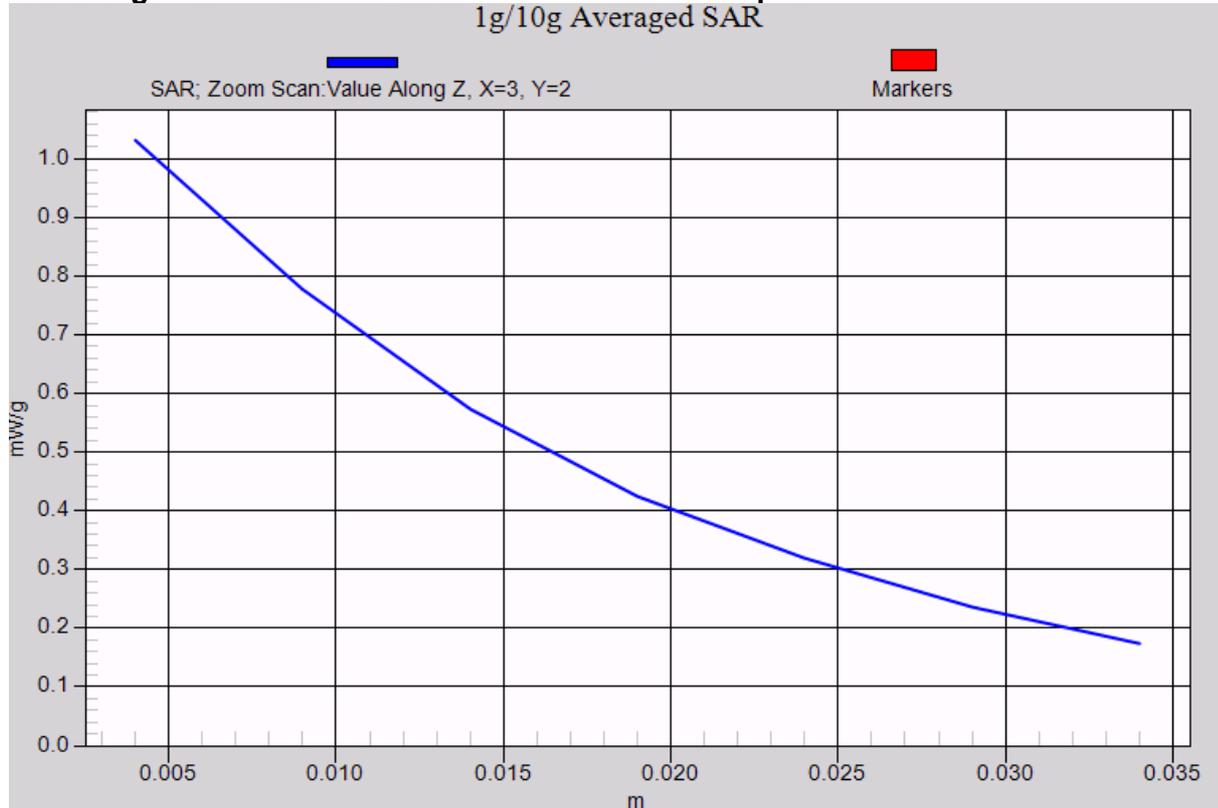


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
towards ground- GSM 850 GPRS 2TS Channel 128 open**

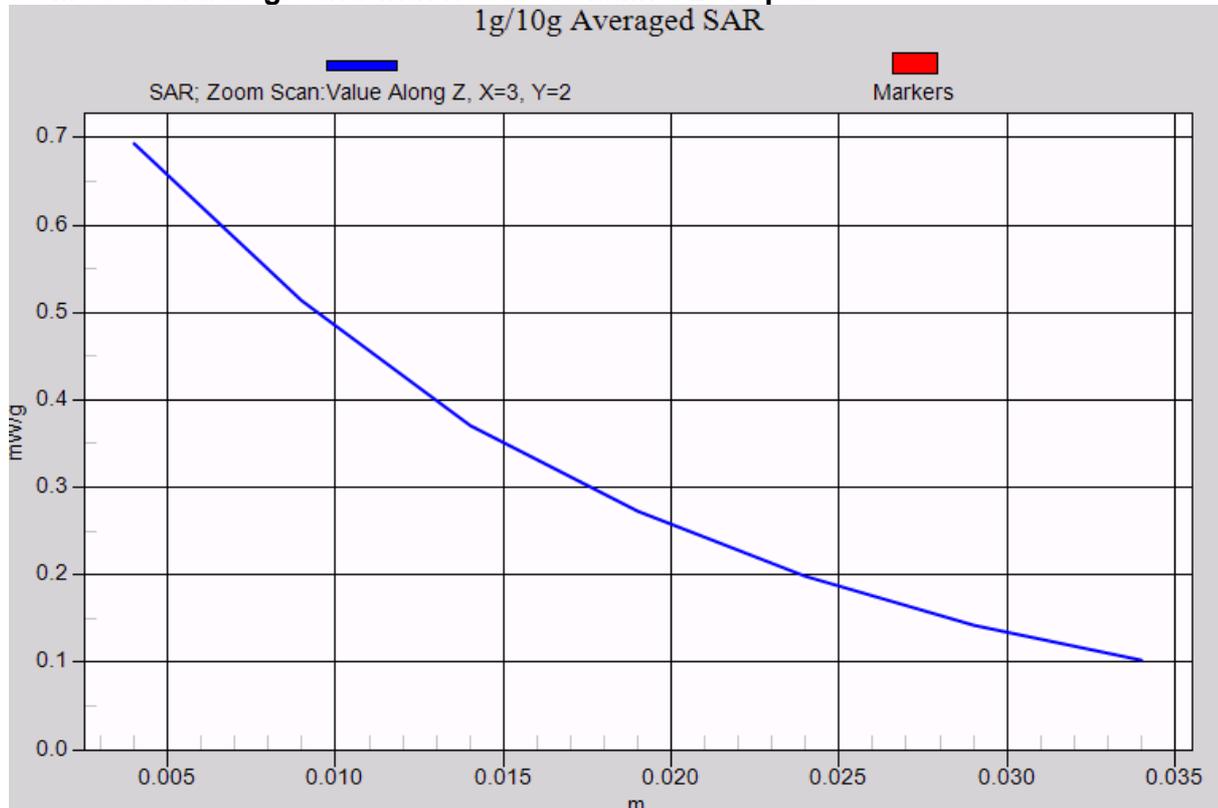


Test report no.: SYBH(Z-SAR)010072010

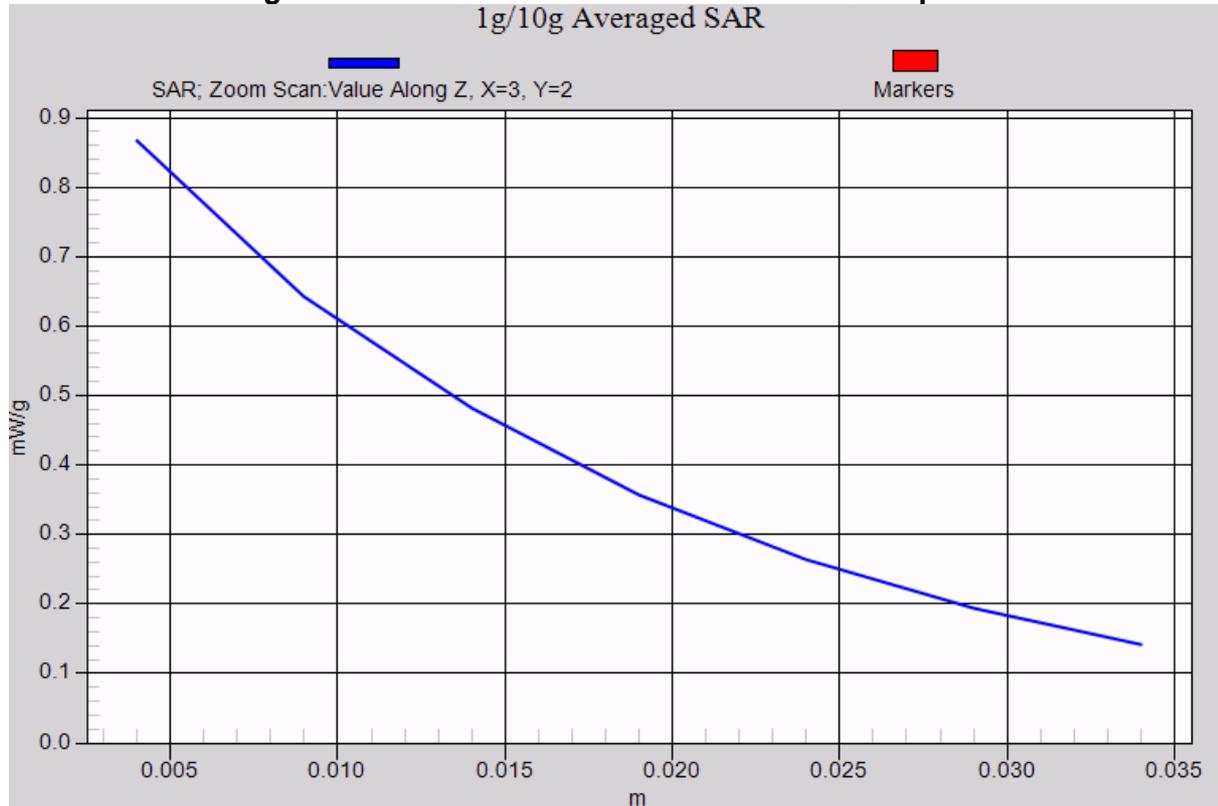
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
towards ground- GSM 850 EGPRS 2TS Channel 251 open**



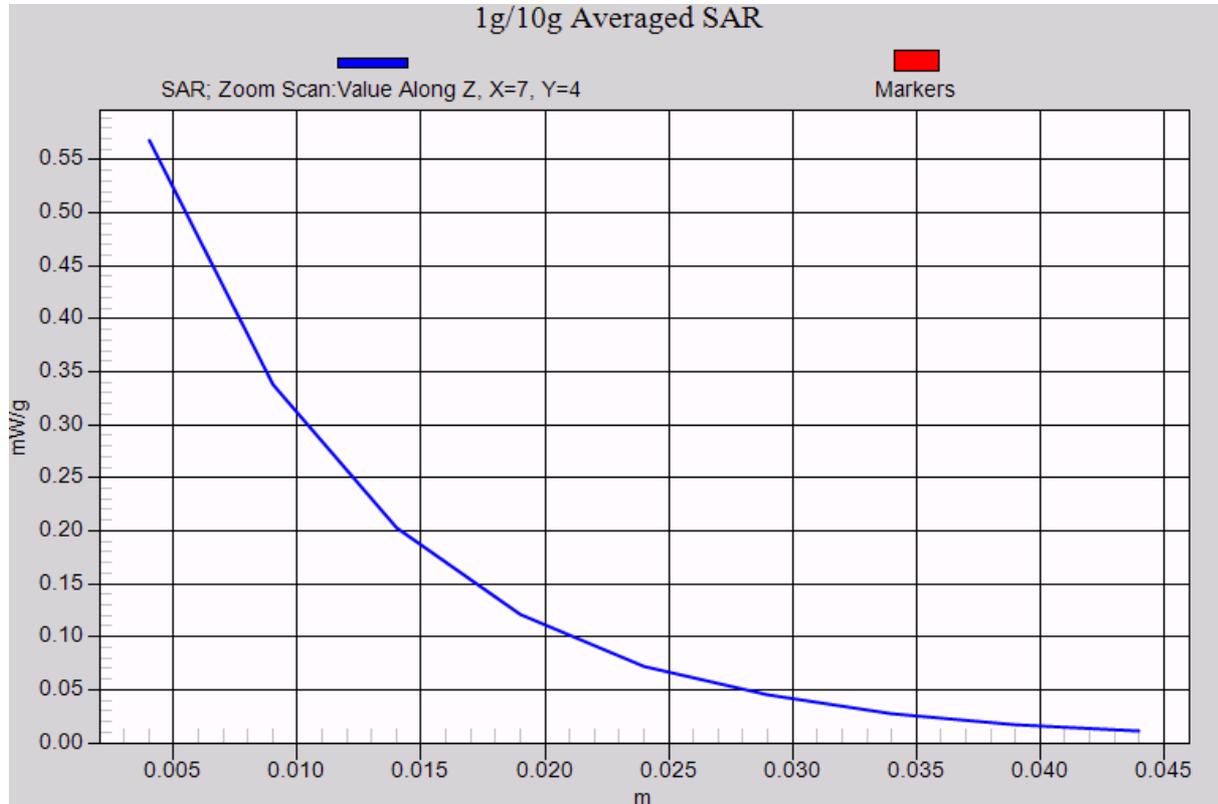
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
GSM 850 towards ground-with Headset Channel 251 open**



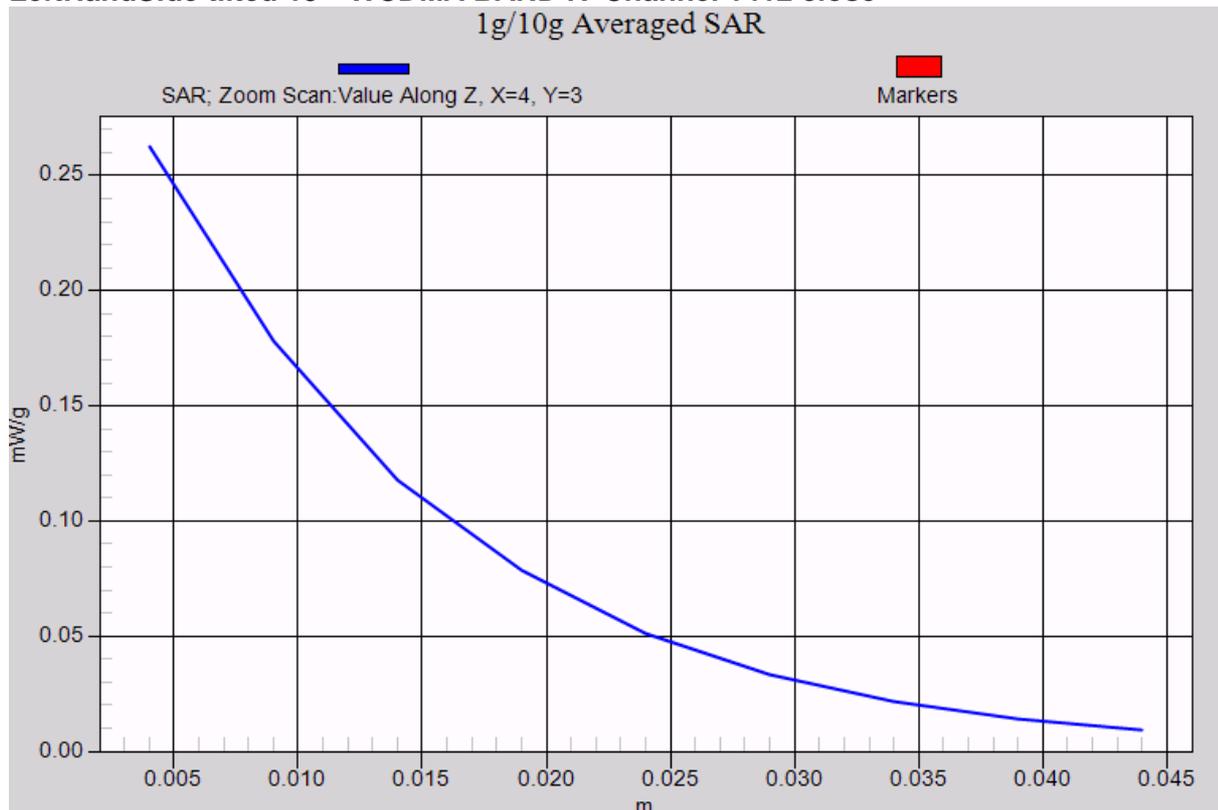
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**GSM 850 towards ground- with Bluetooth Headset Channel 251 open**



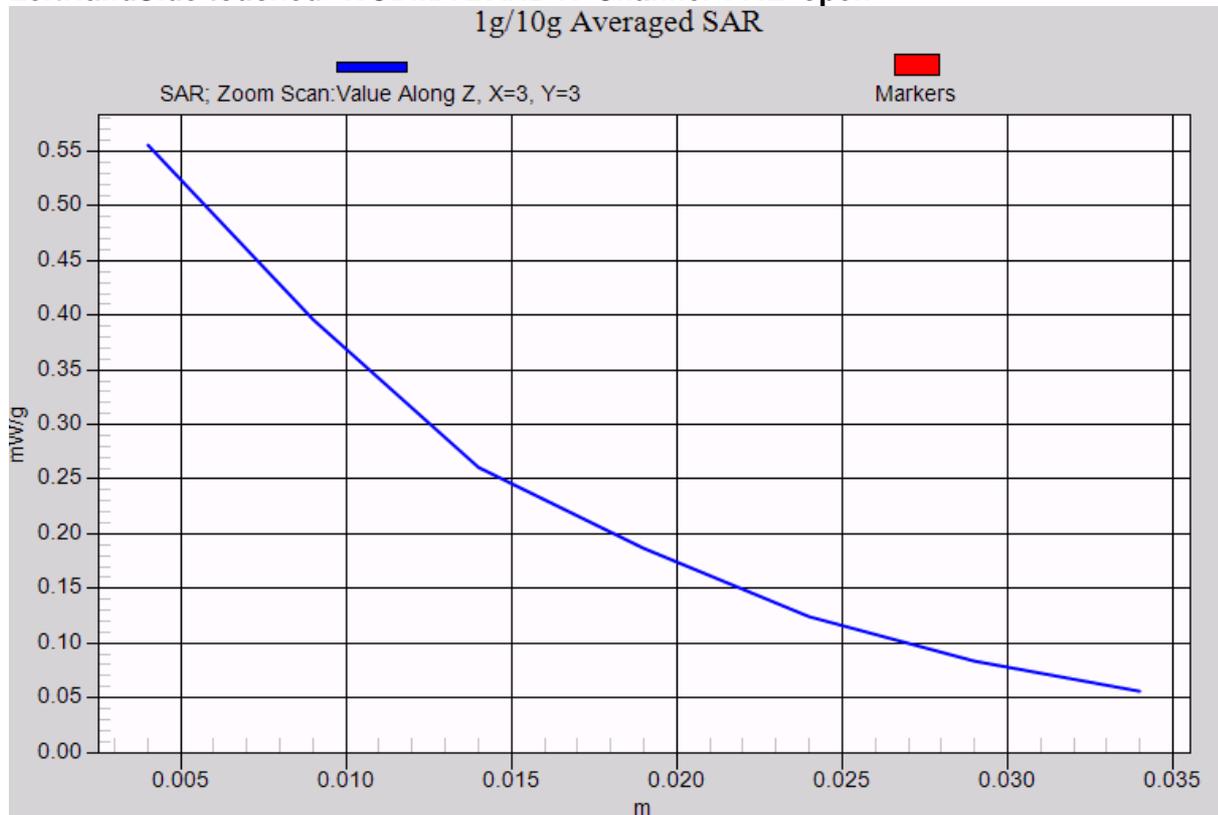
**WCDMA BAND IV head:**  
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide touched - WCDMA BAND IV Channel 1412 close**



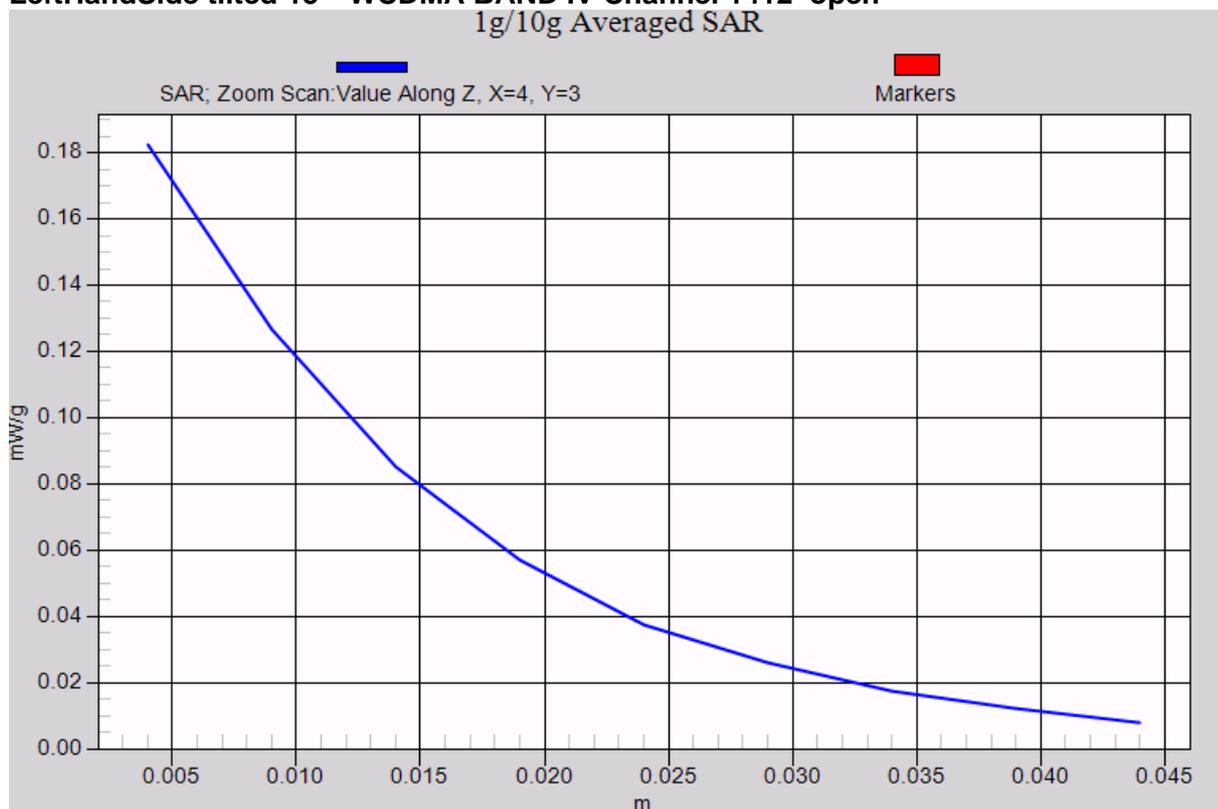
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide tilted 15°- WCDMA BAND IV Channel 1412 close**



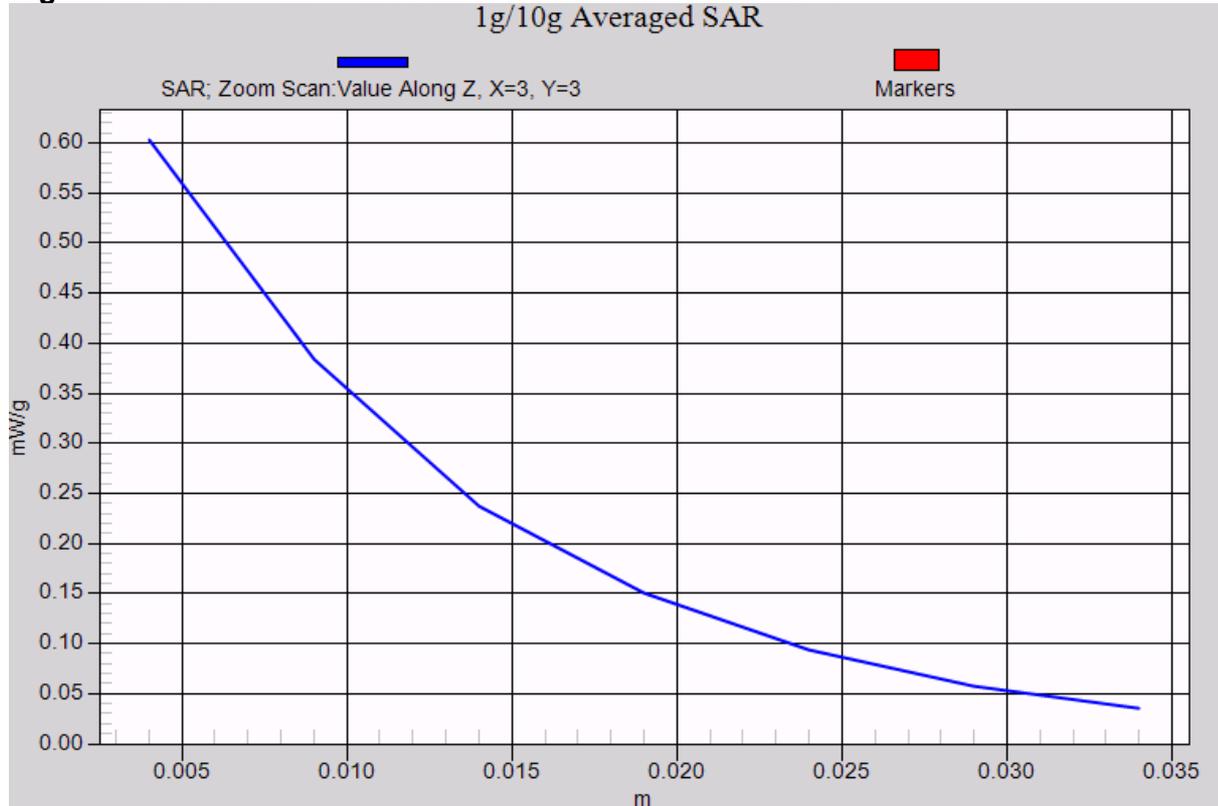
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide touched- WCDMA BAND IV Channel 1412 open**  
1g/10g Averaged SAR



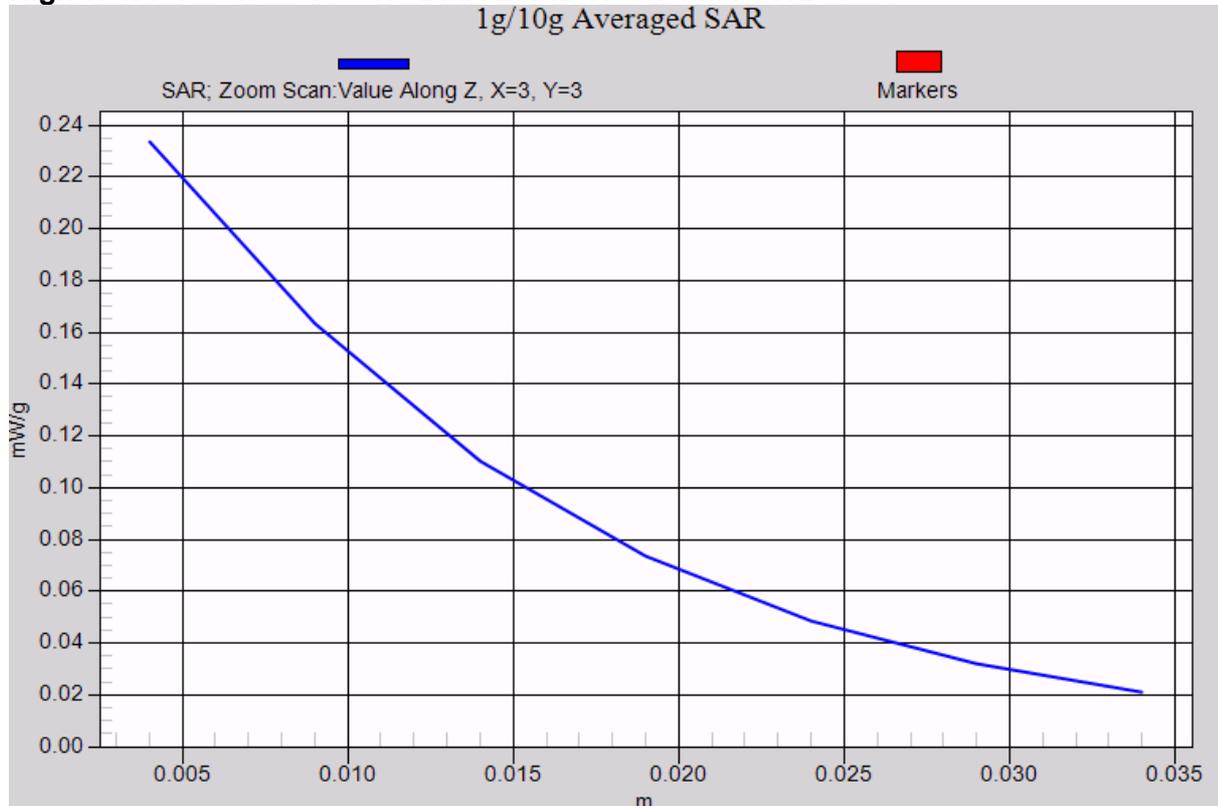
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**LeftHandSide tilted 15°- WCDMA BAND IV Channel 1412 open**  
1g/10g Averaged SAR



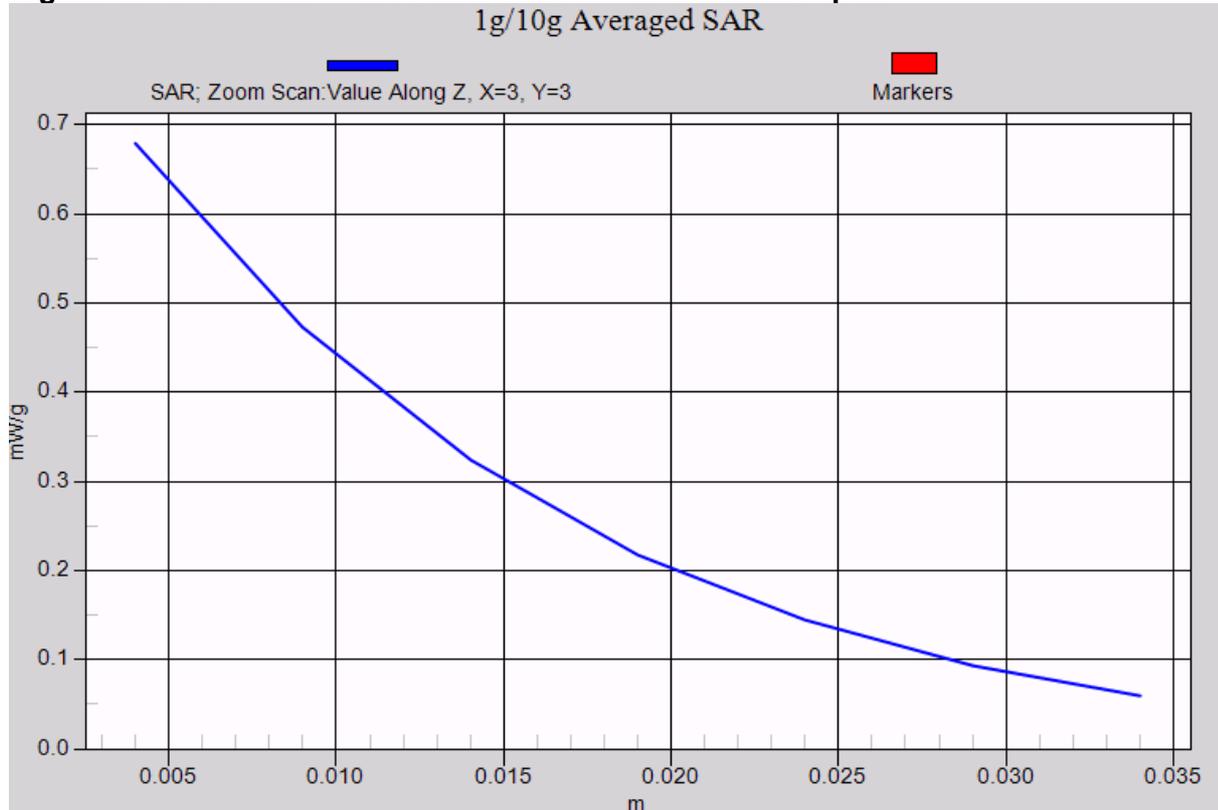
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched- WCDMA BAND IV Channel 1412 close**  
**1g/10g Averaged SAR**



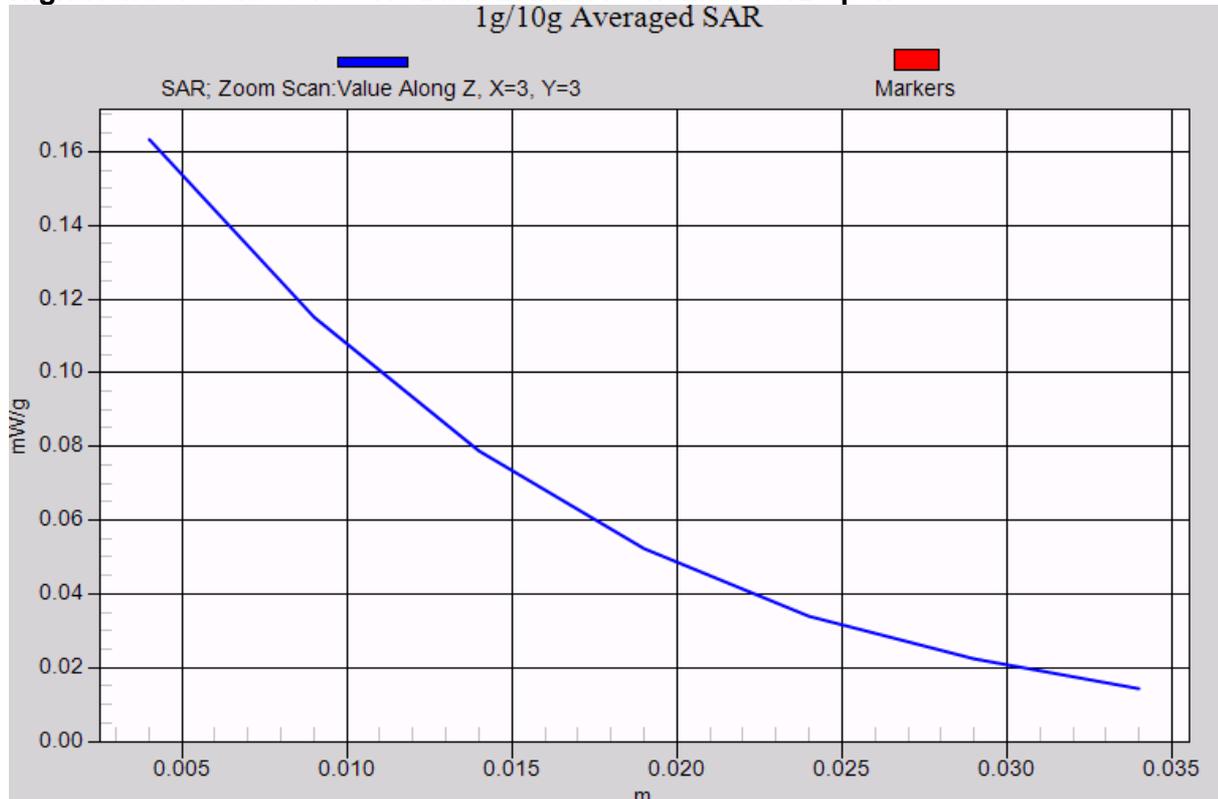
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide tilted 15°- WCDMA BAND IV Channel 1412 close**  
**1g/10g Averaged SAR**



**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched- WCDMA BAND IV Channel 1412 open**

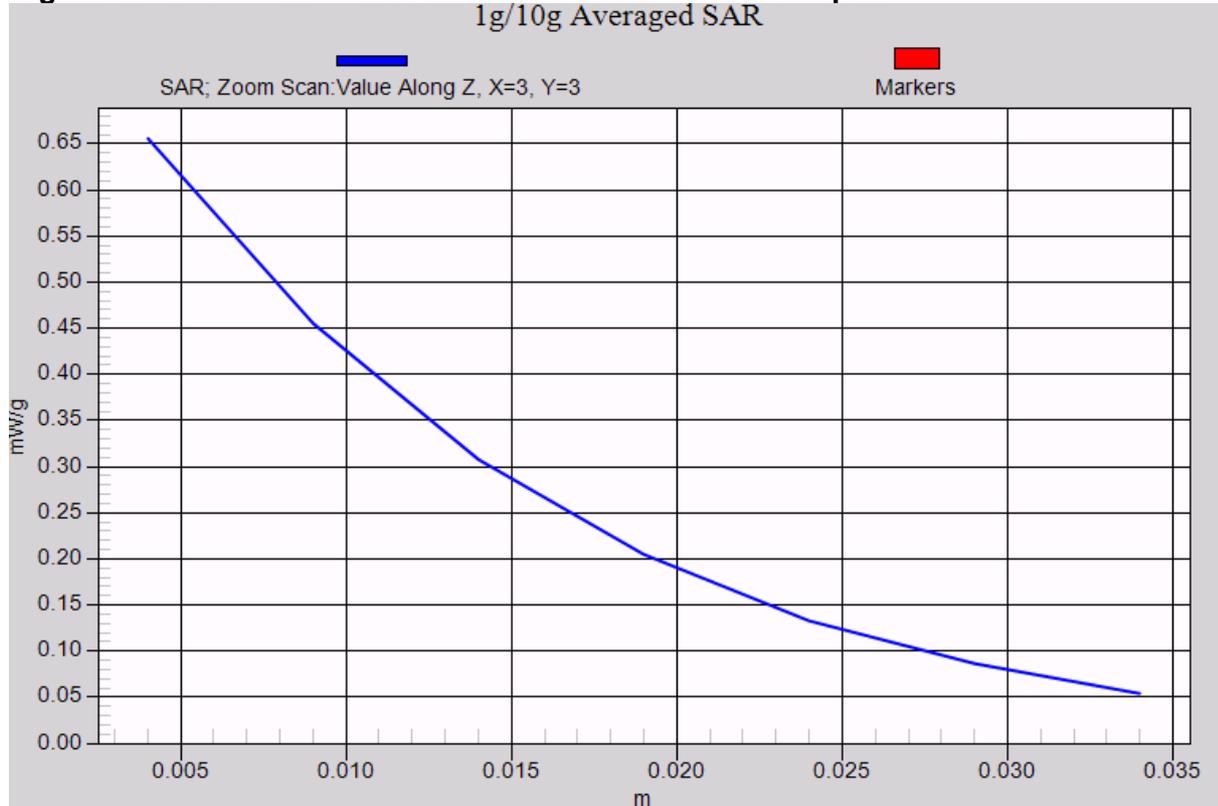


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide tilted 15°- WCDMA BAND IV Channel 1412 open**

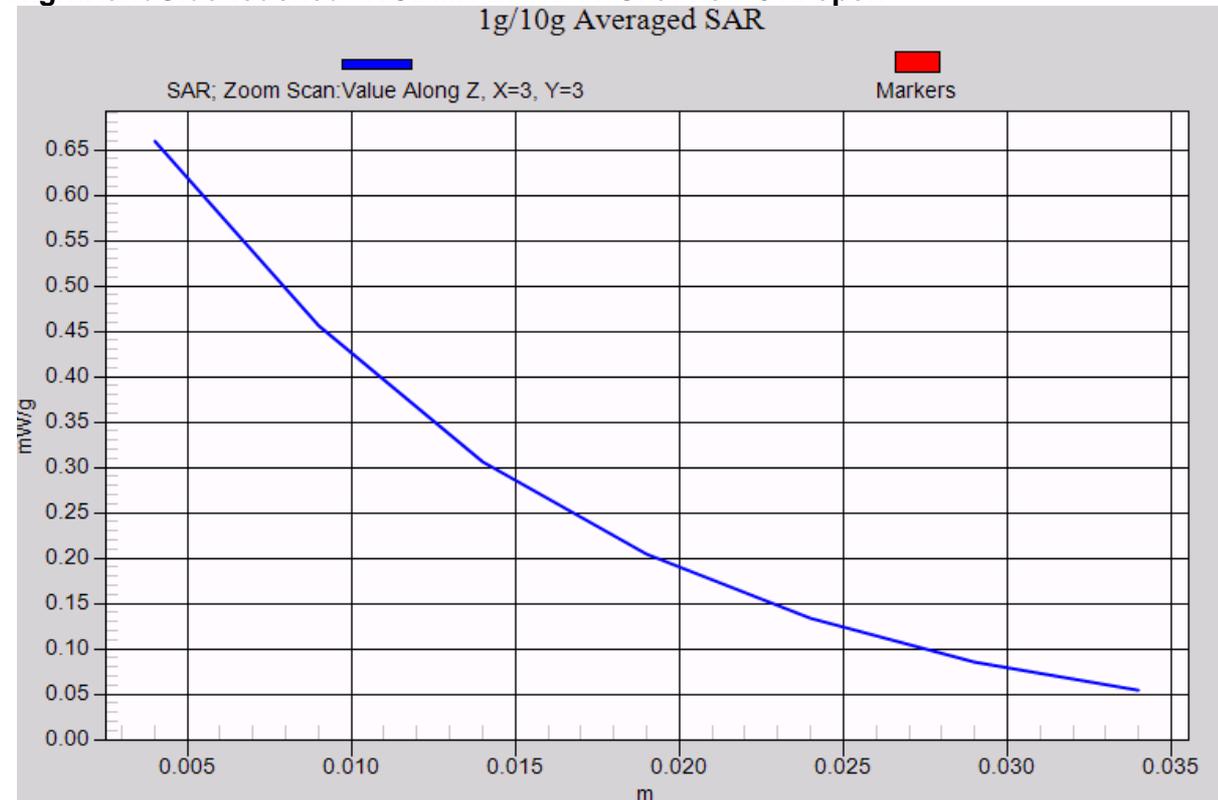


Test report no.: SYBH(Z-SAR)010072010

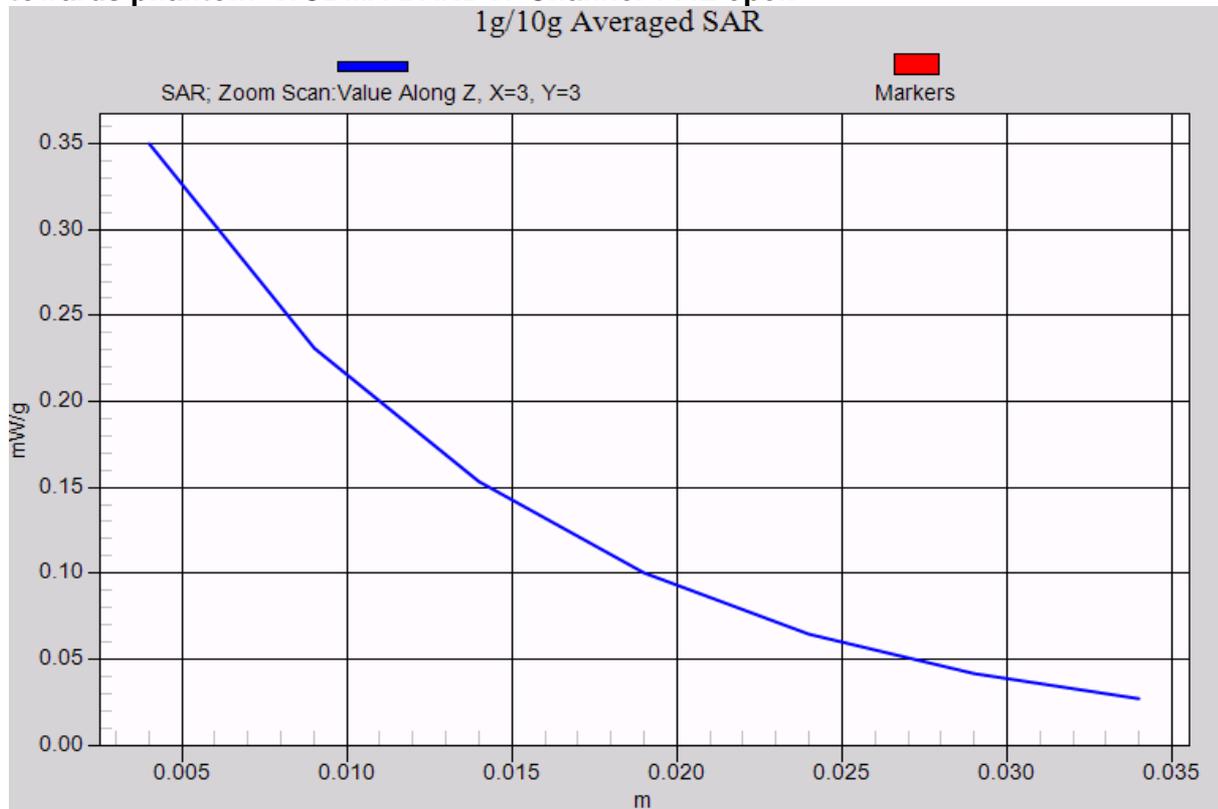
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched- WCDMA BAND IV Channel 1513 open**  
1g/10g Averaged SAR



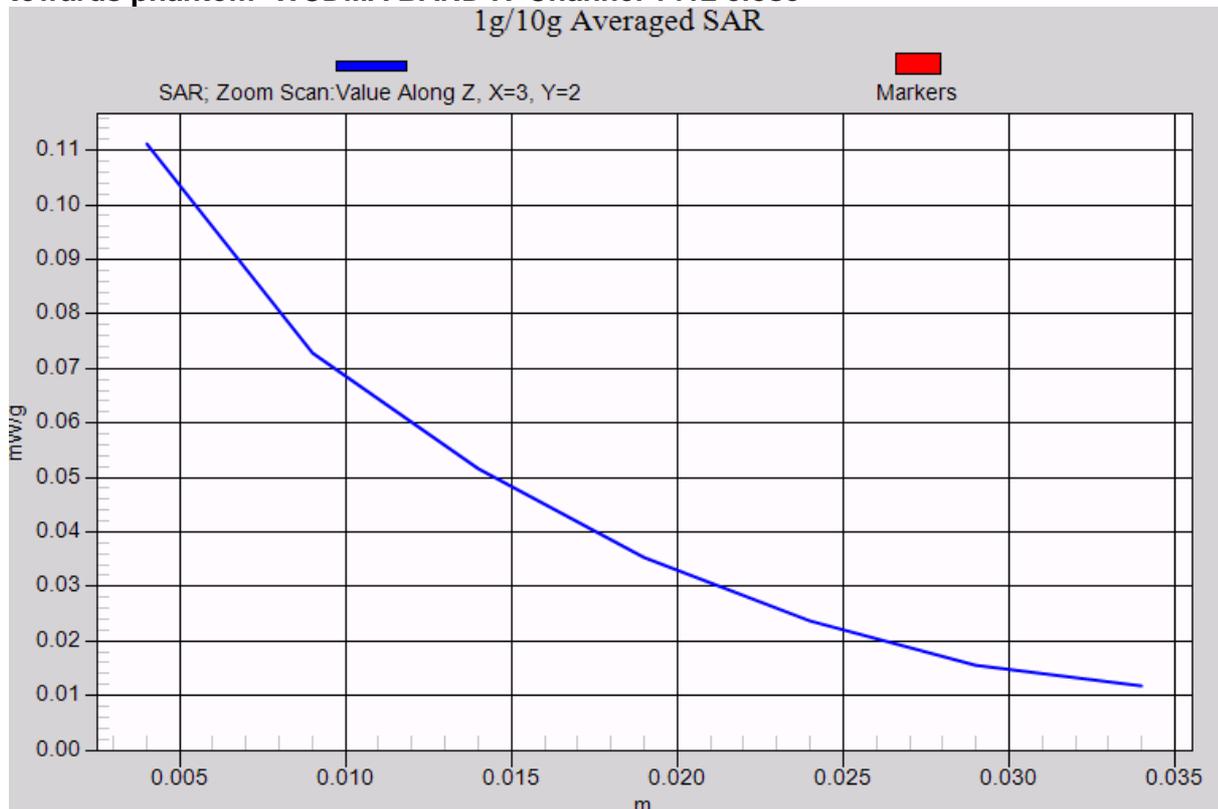
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**RightHandSide touched- WCDMA BAND IV Channel 1312 open**  
1g/10g Averaged SAR

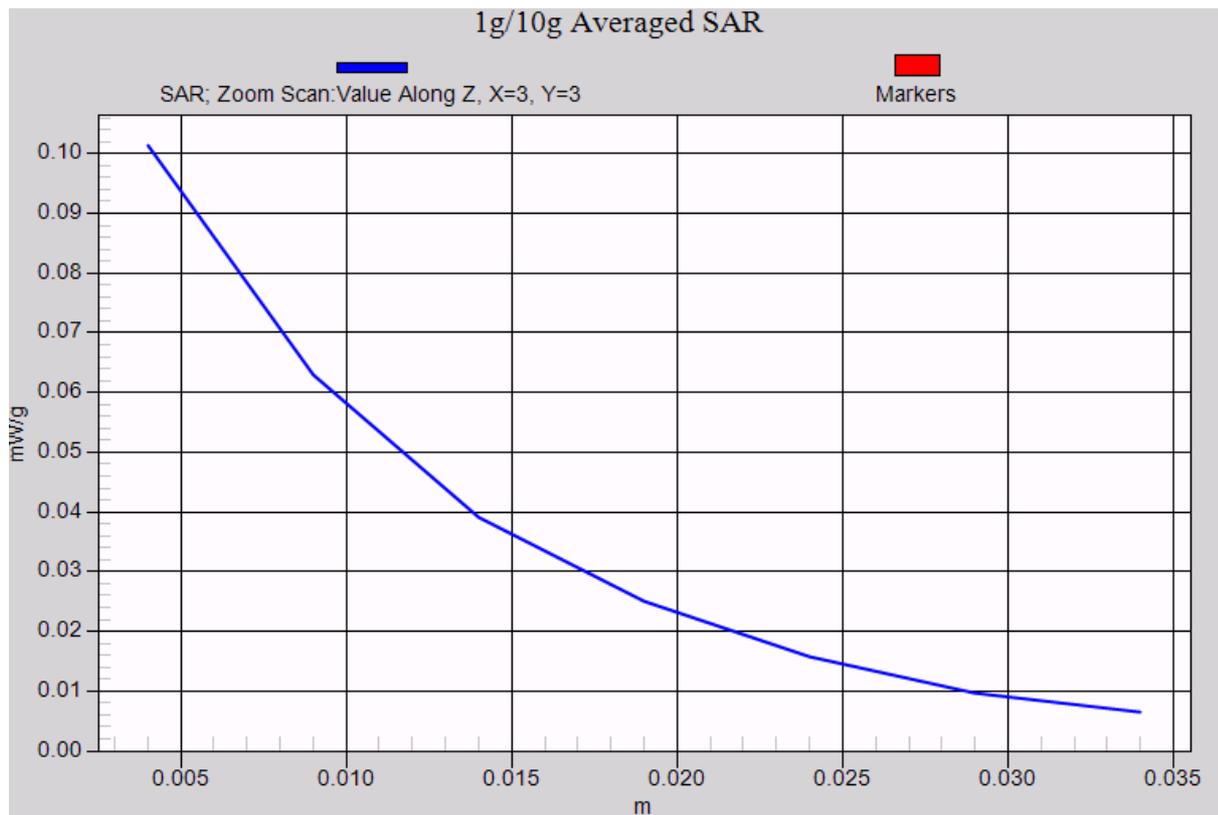


**WCDMA BAND IV body:**  
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards phantom- WCDMA BAND IV Channel 1412 open**

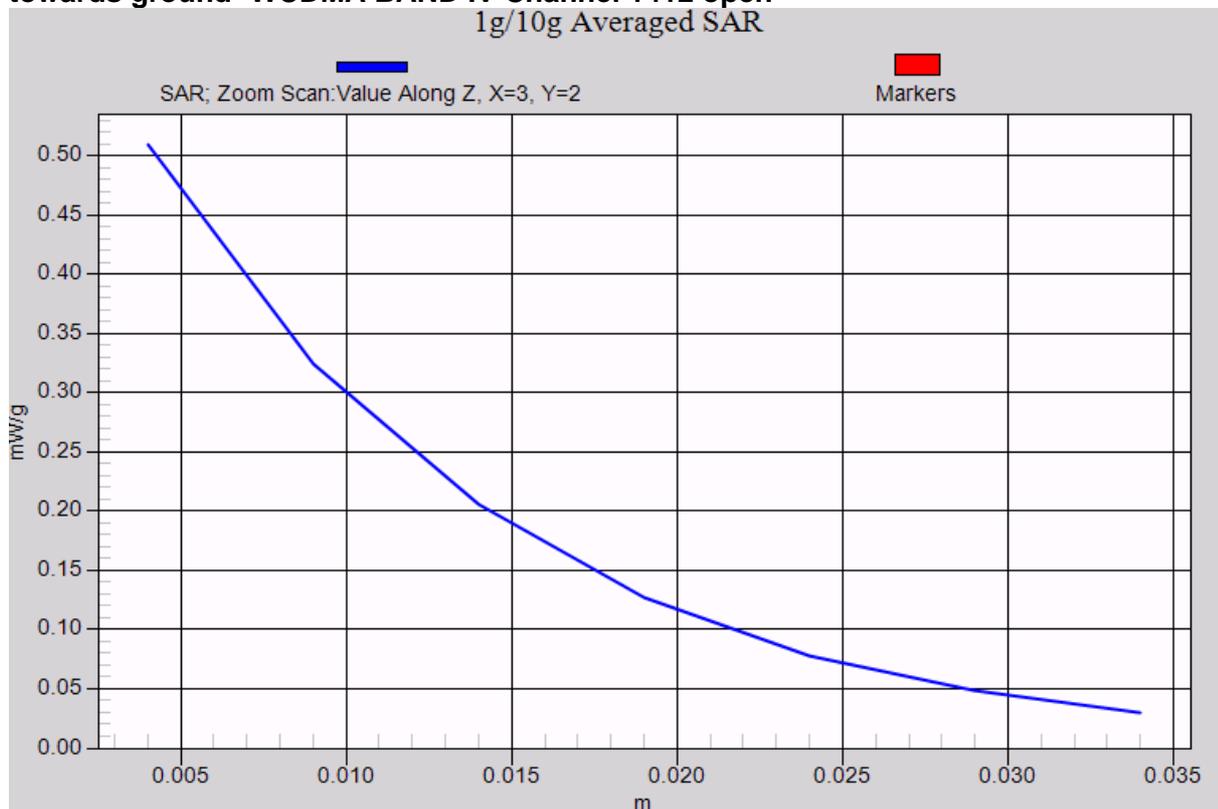


**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards phantom- WCDMA BAND IV Channel 1412 close**

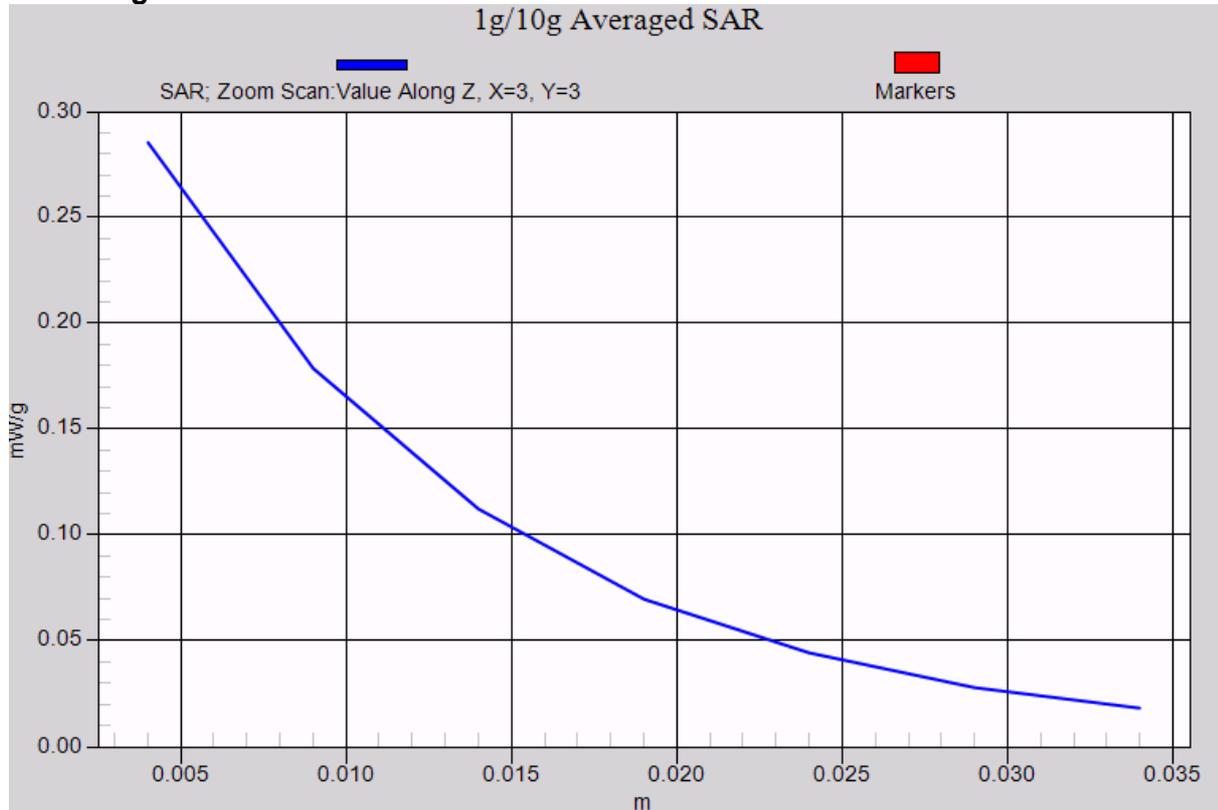




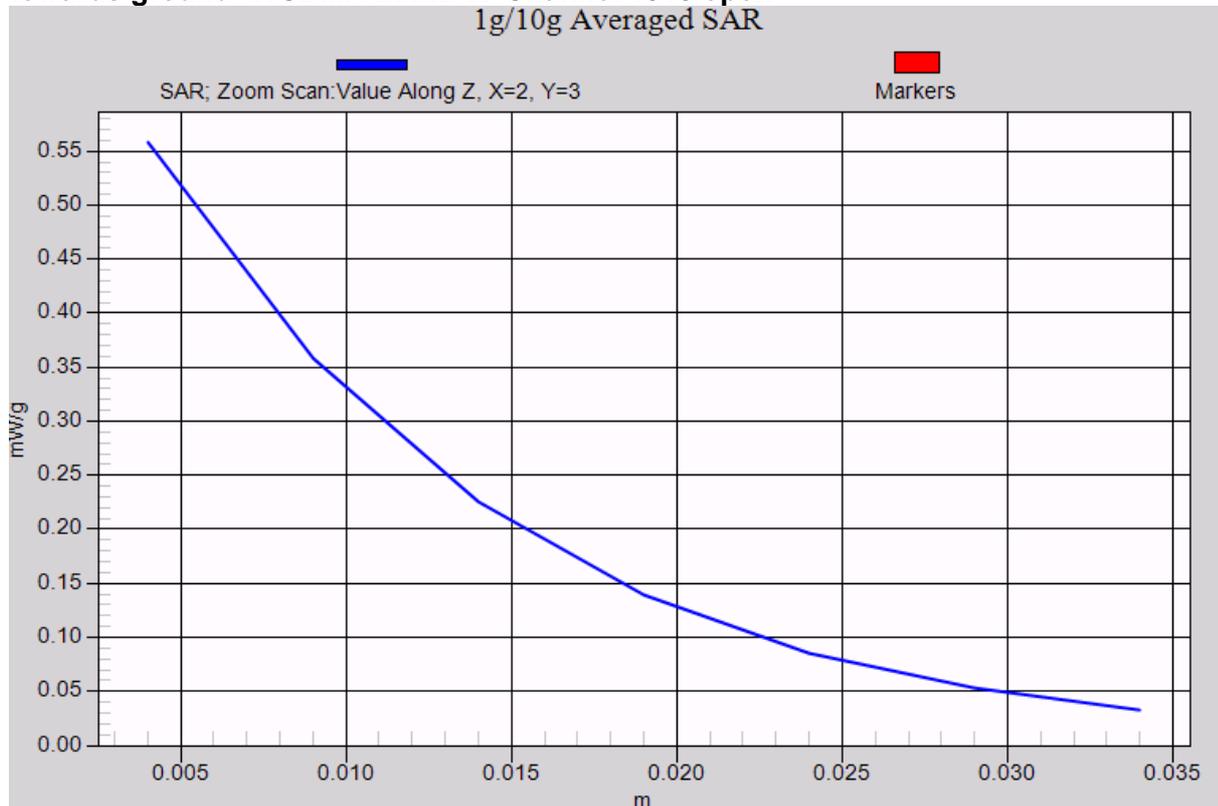
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards ground- WCDMA BAND IV Channel 1412 open**  
1g/10g Averaged SAR



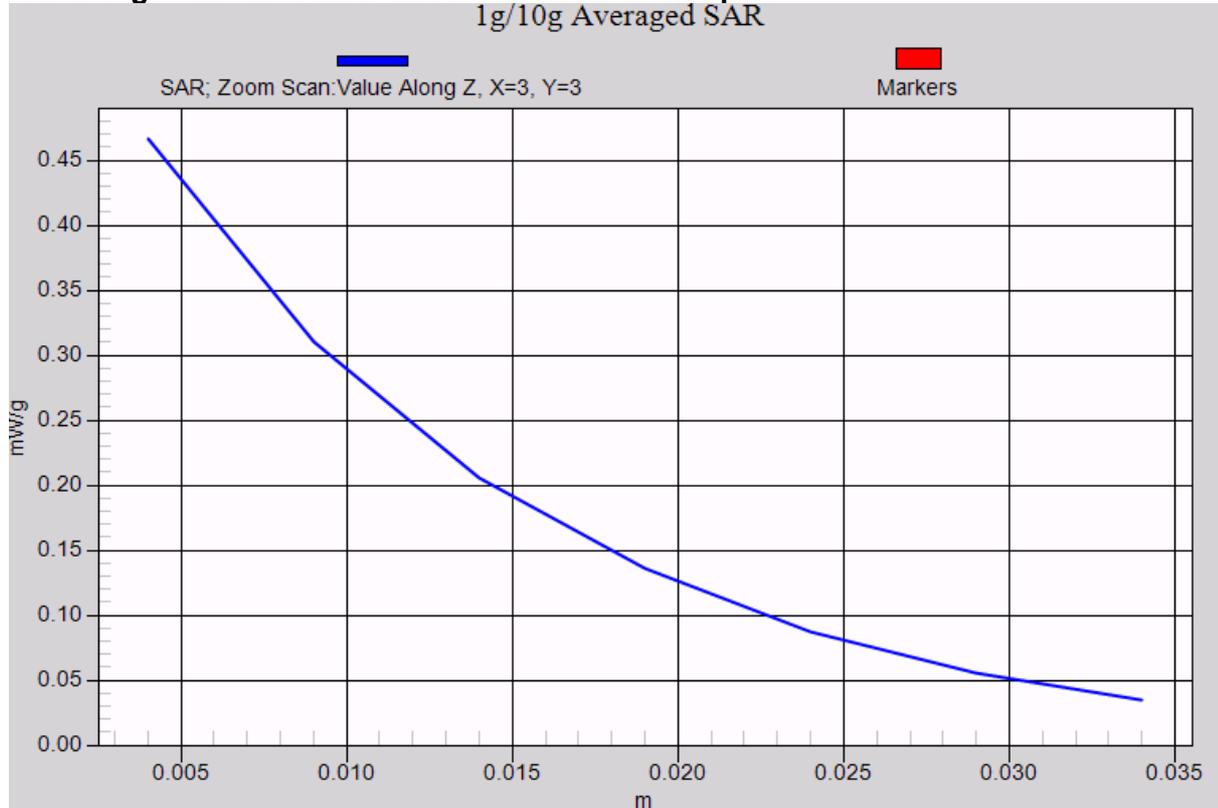
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
towards ground- WCDMA BAND IV Channel 1412 close**



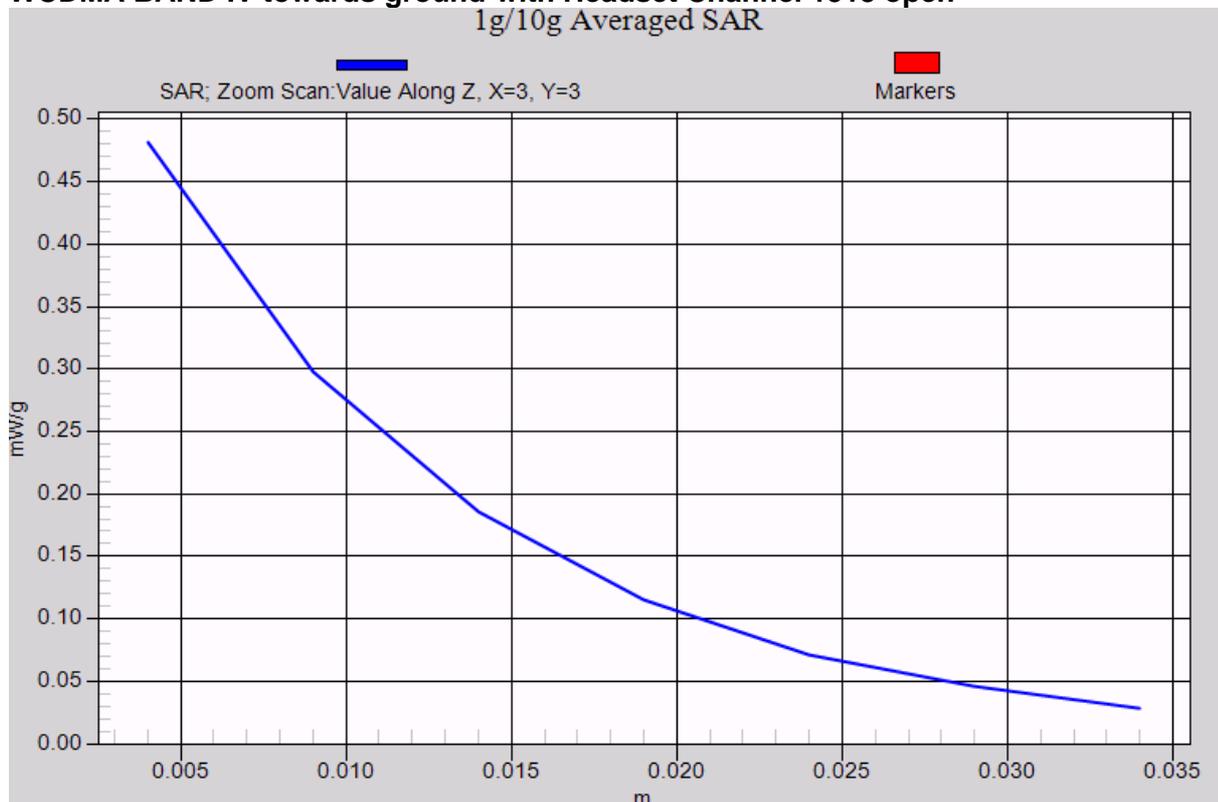
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200  
towards ground- WCDMA BAND IV Channel 1513 open**



**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**towards ground- WCDMA BAND IV Channel 1312 open**  
1g/10g Averaged SAR



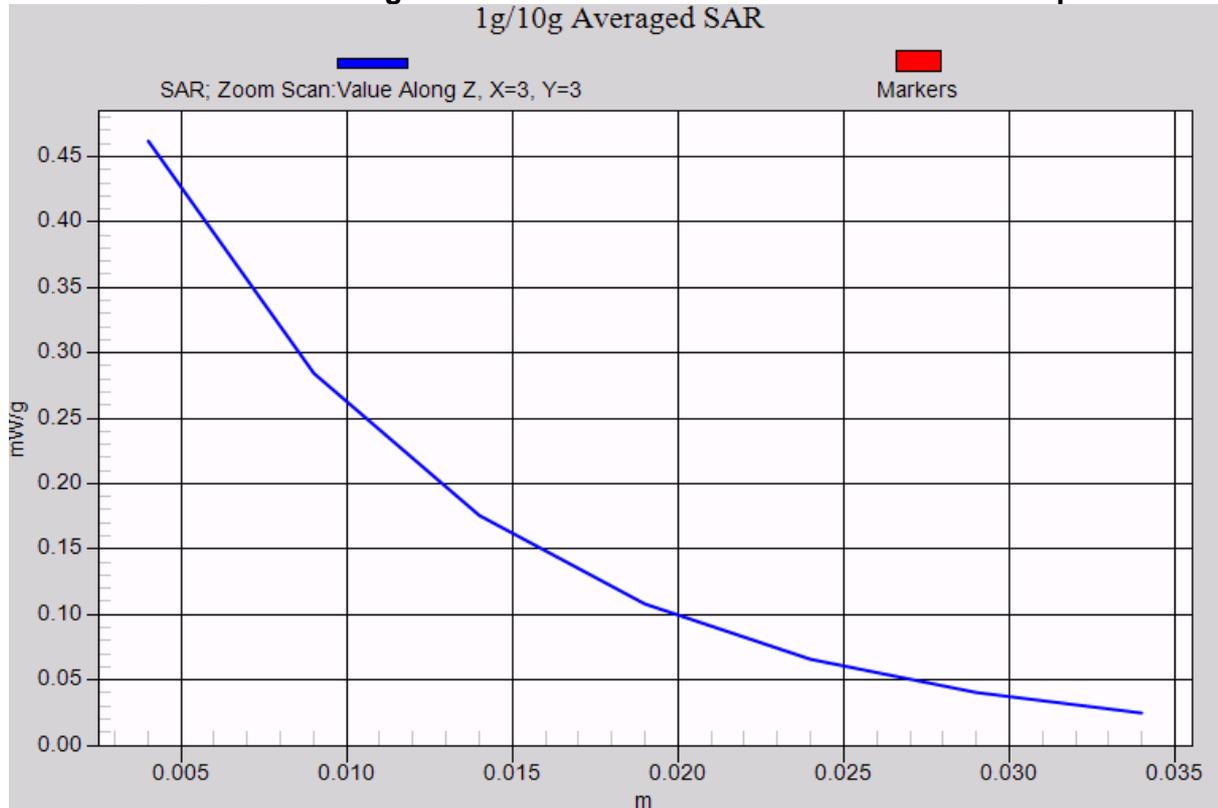
**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**WCDMA BAND IV towards ground-with Headset Channel 1513 open**  
1g/10g Averaged SAR





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**HUAWEI U3200-9/U3200-9/HUAWEI U3200/U3200**  
**WCDMA BAND IV towards ground- with Bluetooth Headset Channel 1513 open**





**Annex 3 Calibration parameters**

**Calibration parameters are described in the additional document:**

**Appendix to test report no. SYBH(Z-SAR) 010072010  
Calibration data, Phantom certificate  
and detail information of the DASY5 System**

**Annex 4 Photo documentation**

**Annex 4.1 Test Facility**

Photo 1: Measurement System DASY5



Photo 2: Measurement System DASY5

