Huawei Technologies Co.,Ltd.

P1528_OET65_EN62209- towards ground- WCDMA850 Low
DUT: HUAWEI U7520-5/U7520-5

Communication System: WCDMA850; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 1 mho/m; εr = 56.4; ρ = 1000 kg/m3
Phantom section: Flat Section
DASY5 Configuration:
- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 2009-12-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 2009-12-18
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.2 Build 87
Body/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.672 mW/g
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
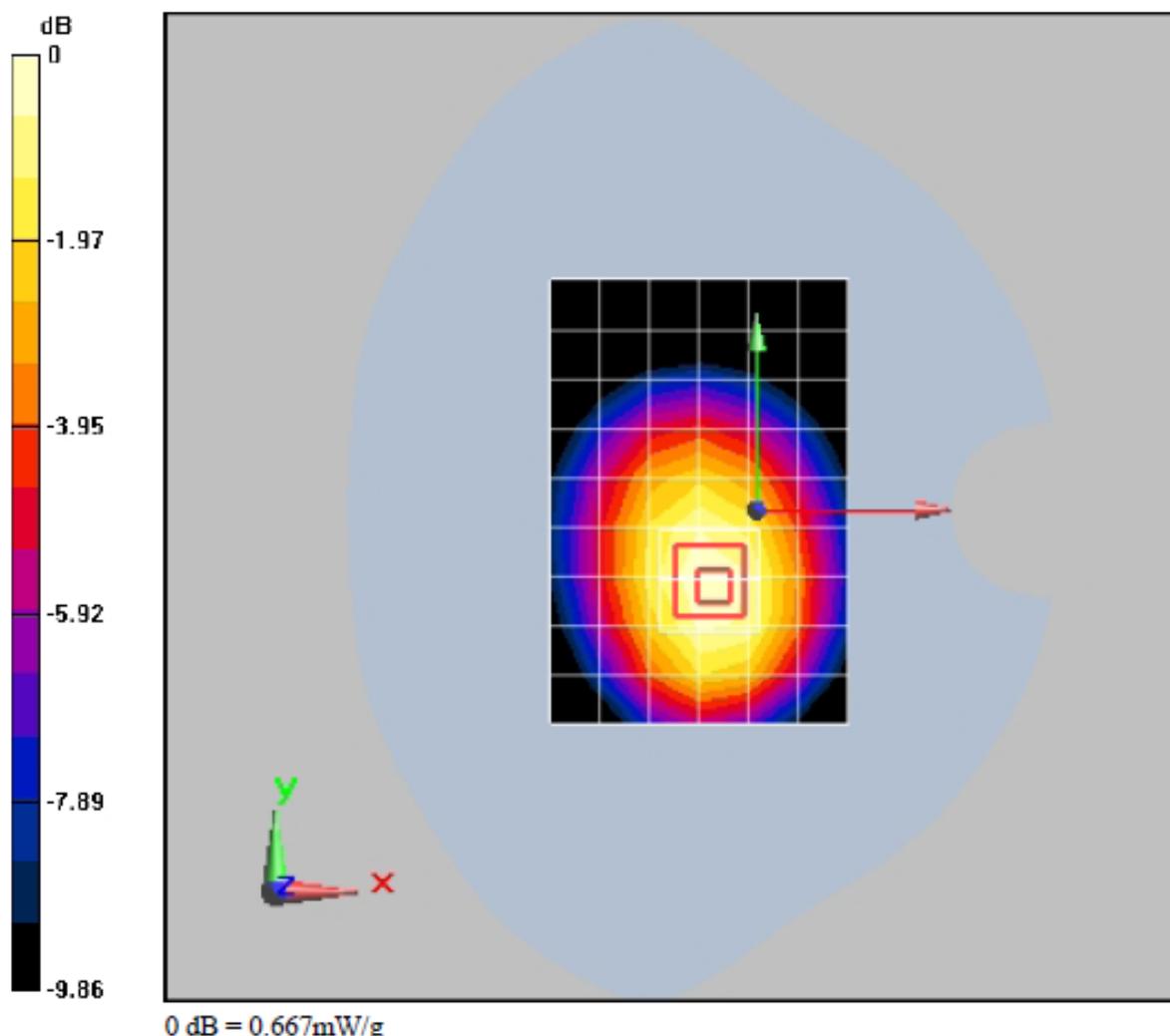Reference Value = 23.5 V/m; Power Drift = -0.182 dB
Peak SAR (extrapolated) = 0.836 W/kg
SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.450 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.667 mW/g

0 dB = 0.667mW/g

Additional information:
position or distance of DUT to SAM (if not standard head positions) :15 mm
ambient temperature: 22.0°C; liquid temperature: 21.6°C

Date/Time: 2010-10-23 03:53:19

P1528_OET65_EN62209- towards ground with HSDPA - WCDMA850 Low
DUT: HUAWEI U7520-5/U7520-5

Communication System: WCDMA850; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 826.4 MHz; σ = 1 mho/m; εr = 56.4; ρ = 1000 kg/m3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 2009-12-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 2009-12-18
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.2 Build 87

Body/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.632 mW/g

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

Reference Value = 23.7 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.615 mW/g; SAR(10 g) = 0.438 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.657 mW/g
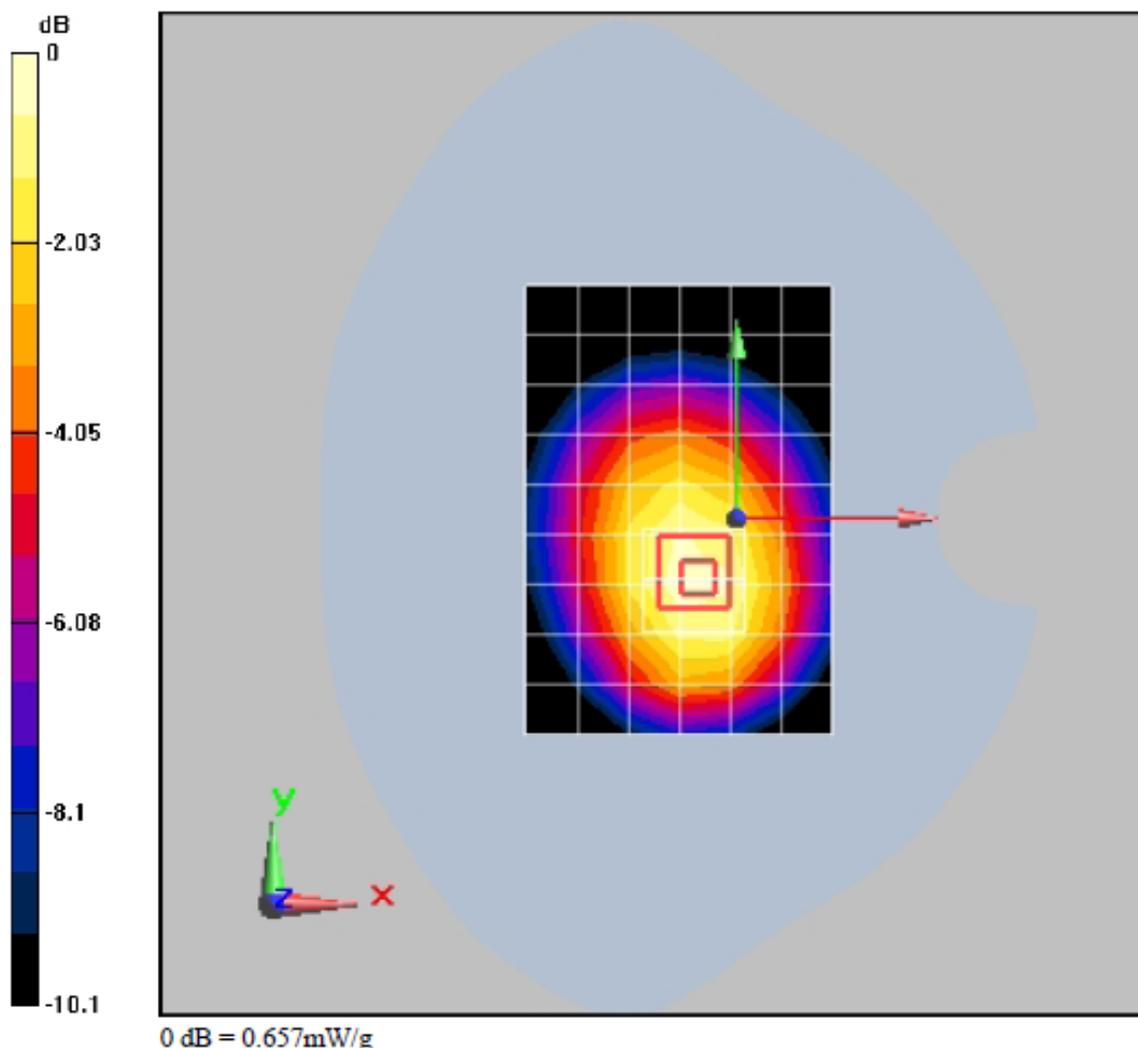

0 dB = 0.657mW/g

Additional information:

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

ambient temperature: 22.0°C; liquid temperature: 21.6°C

Huawei Technologies Co.,Ltd.

P1528_OET65_EN62209- towards ground with Headset - WCDMA850 Low
DUT: HUAWEI U7520-5/U7520-5

Communication System: WCDMA850; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 826.4 MHz; σ = 1 mho/m; εr = 56.4; ρ = 1000 kg/m3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 2009-12-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 2009-12-18
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.2 Build 87

Body/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.425 mW/g

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

Reference Value = 19.1 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.584 W/kg

SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.295 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.452 mW/g
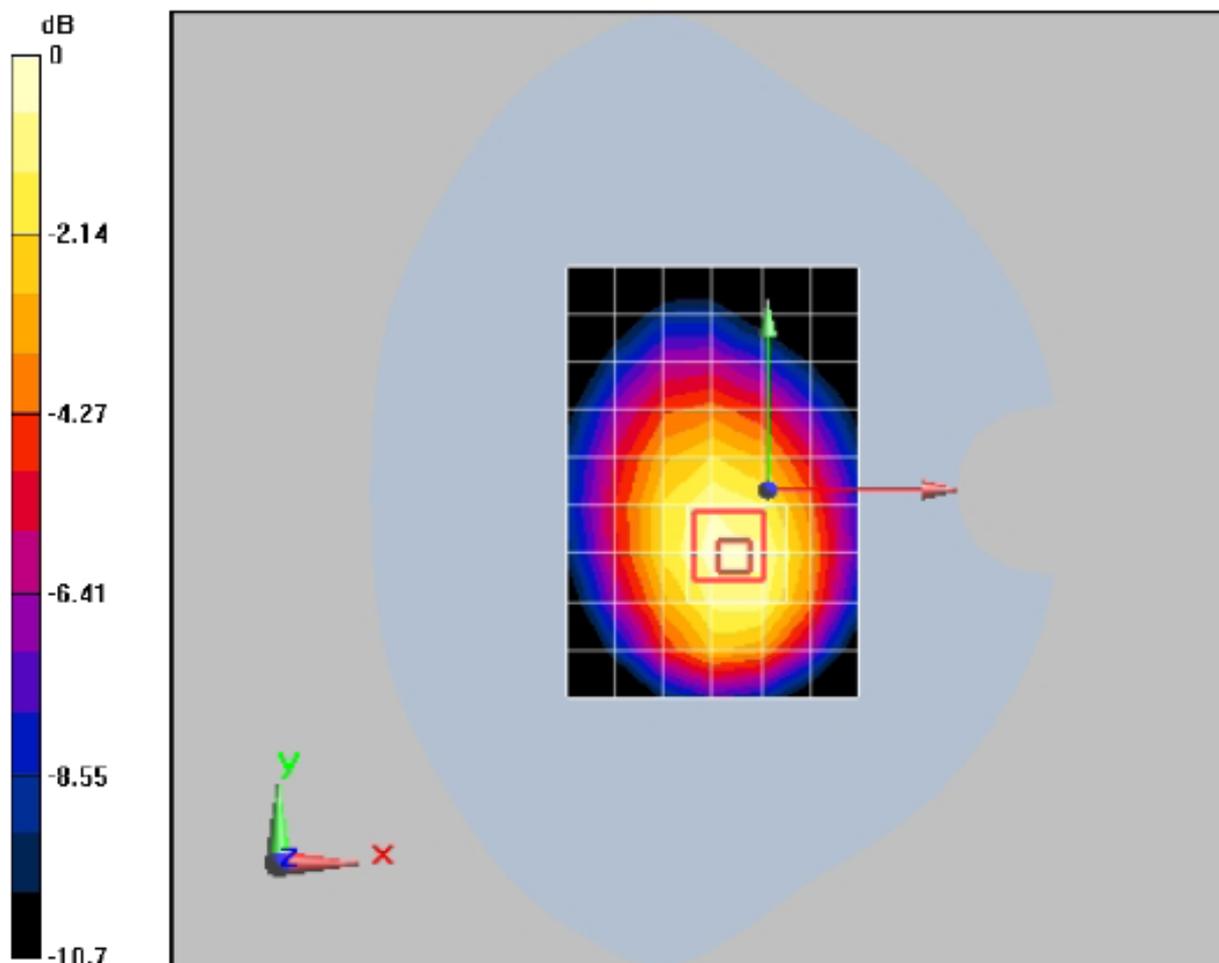
0 dB = 0.452mW/g

Additional information:

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

ambient temperature: 22.0°C; liquid temperature: 21.6°C

Huawei Technologies Co.,Ltd.

P1528_OET65_EN62209- towards ground with Bluetooth Headset - WCDMA850 Low
DUT: HUAWEI U7520-5/U7520-5

Communication System: WCDMA850; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 1 mho/m; εr = 56.4; ρ = 1000 kg/m3
Phantom section: Flat Section
DASY5 Configuration:
- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 2009-12-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 2009-12-18
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.2 Build 87
Body/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.648 mW/g
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.5 V/m; Power Drift = -0.189 dB
Peak SAR (extrapolated) = 0.833 W/kg
SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.450 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.671 mW/g
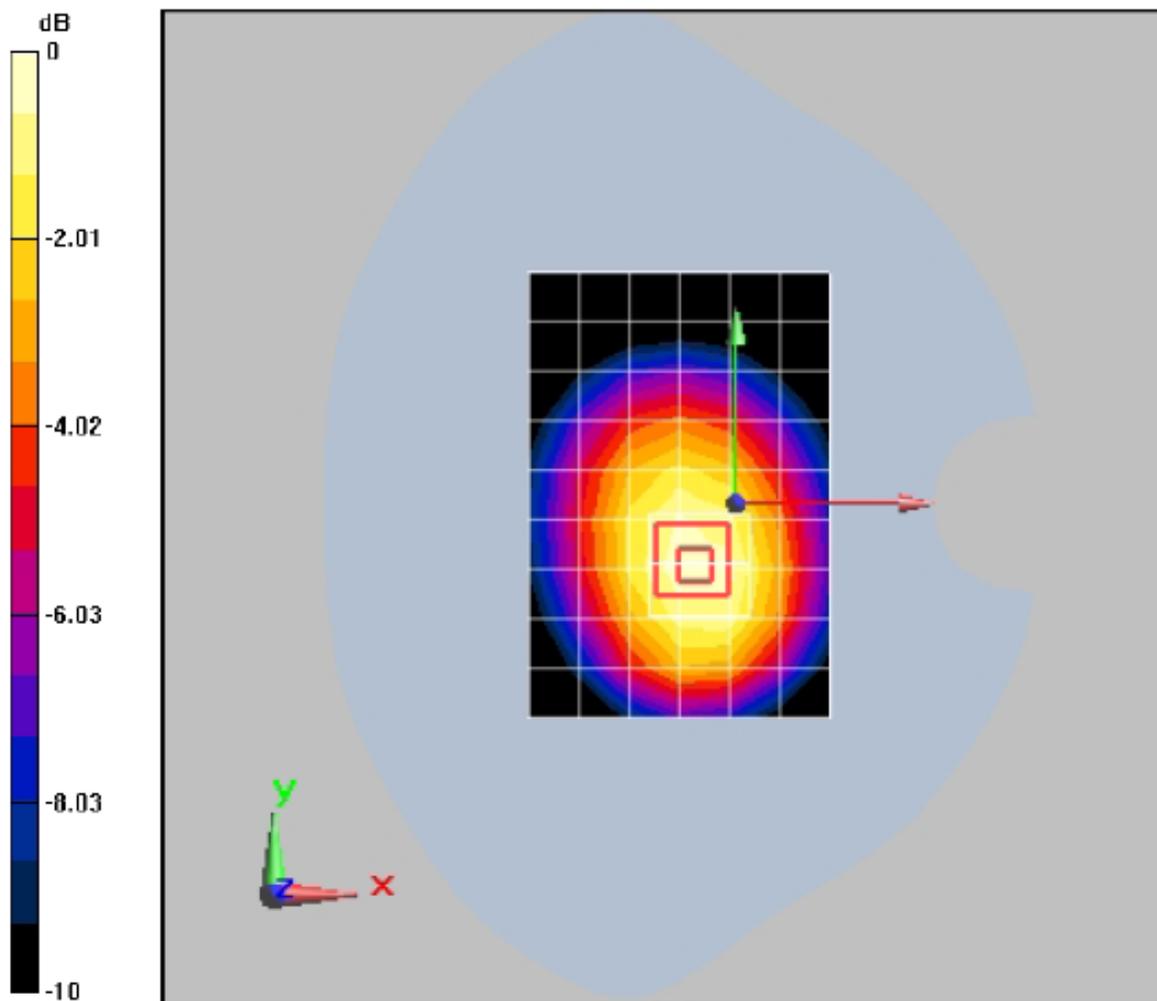
0 dB = 0.671mW/g

Additional information:
position or distance of DUT to SAM (if not standard head positions) :15 mm
ambient temperature: 22.0°C; liquid temperature: 21.6°C

Annex 2.9   Z-axis scans
GSM 1900 Head:
HUAWEI U7520-5/U7520-5
LeftHandSide touched -GSM1900 Channel 661
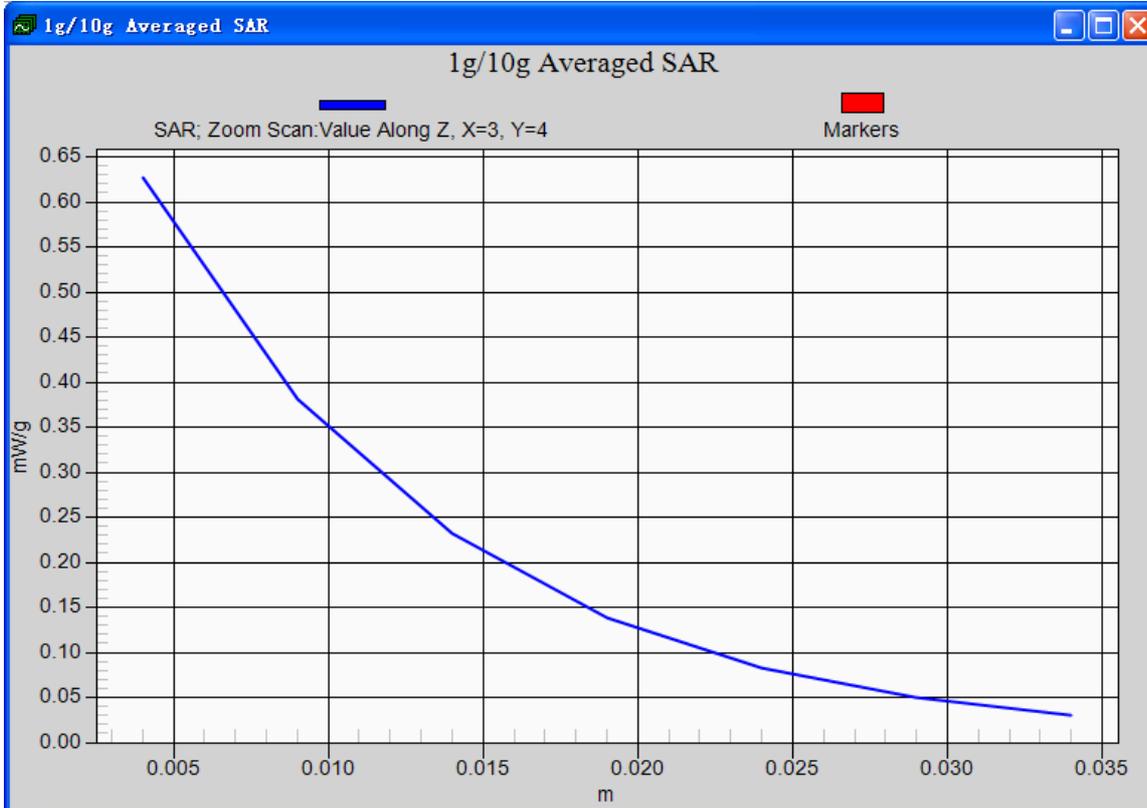
LeftHandSide tilted 15° -GSM1900 Channel 661
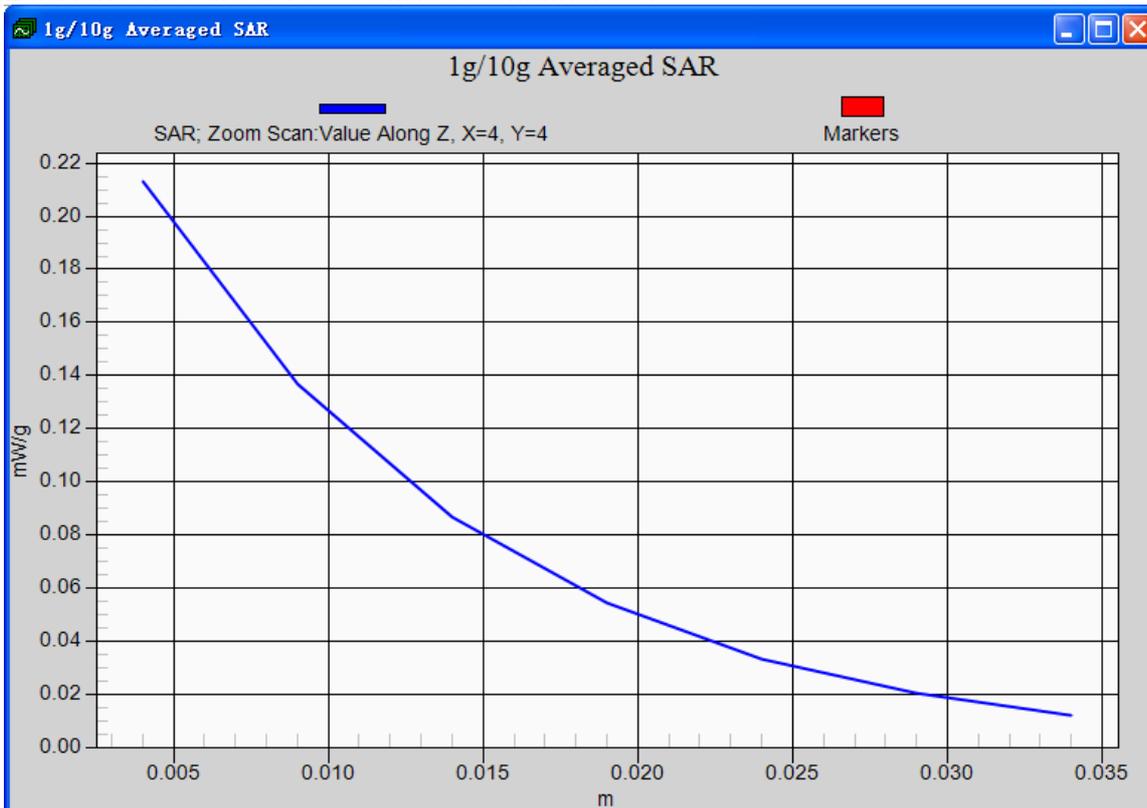
RightHandSide touched -GSM1900 Channel 661
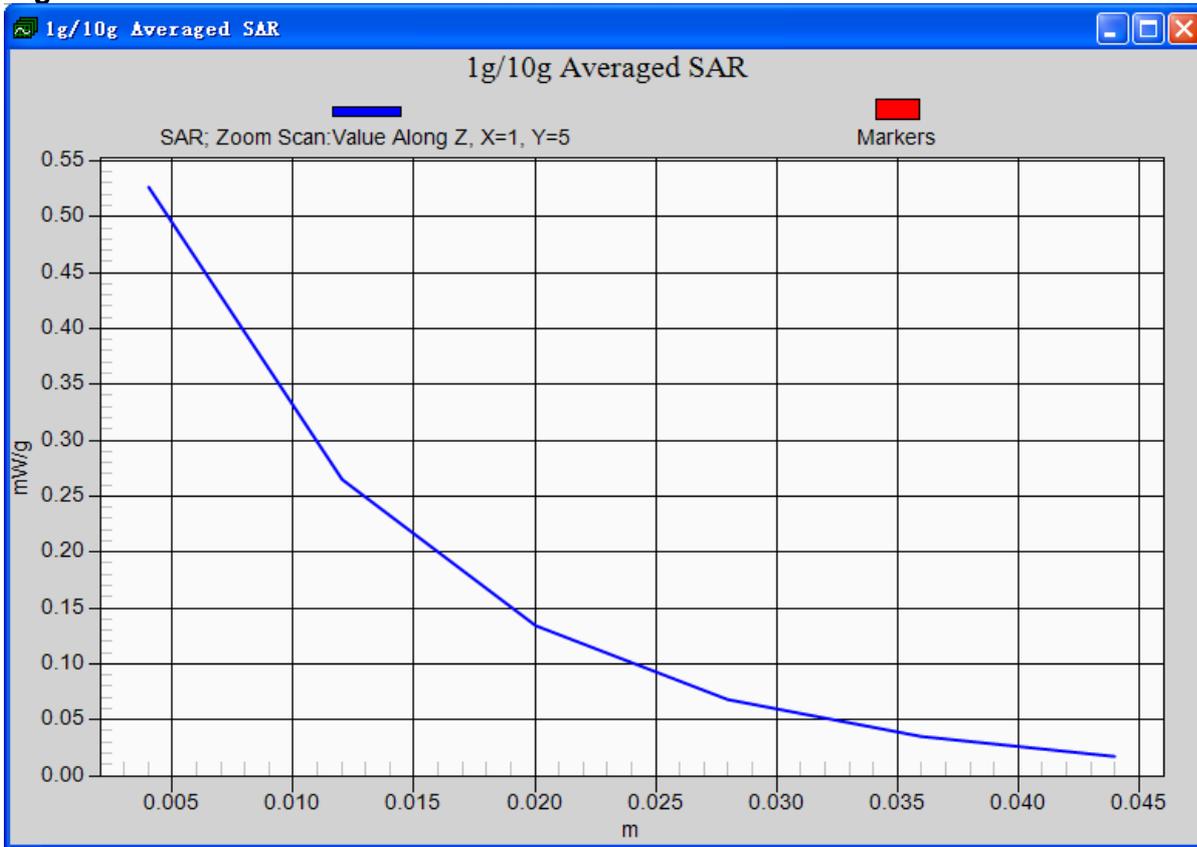
RightHandSide tilted 15° -GSM1900 Channel 661
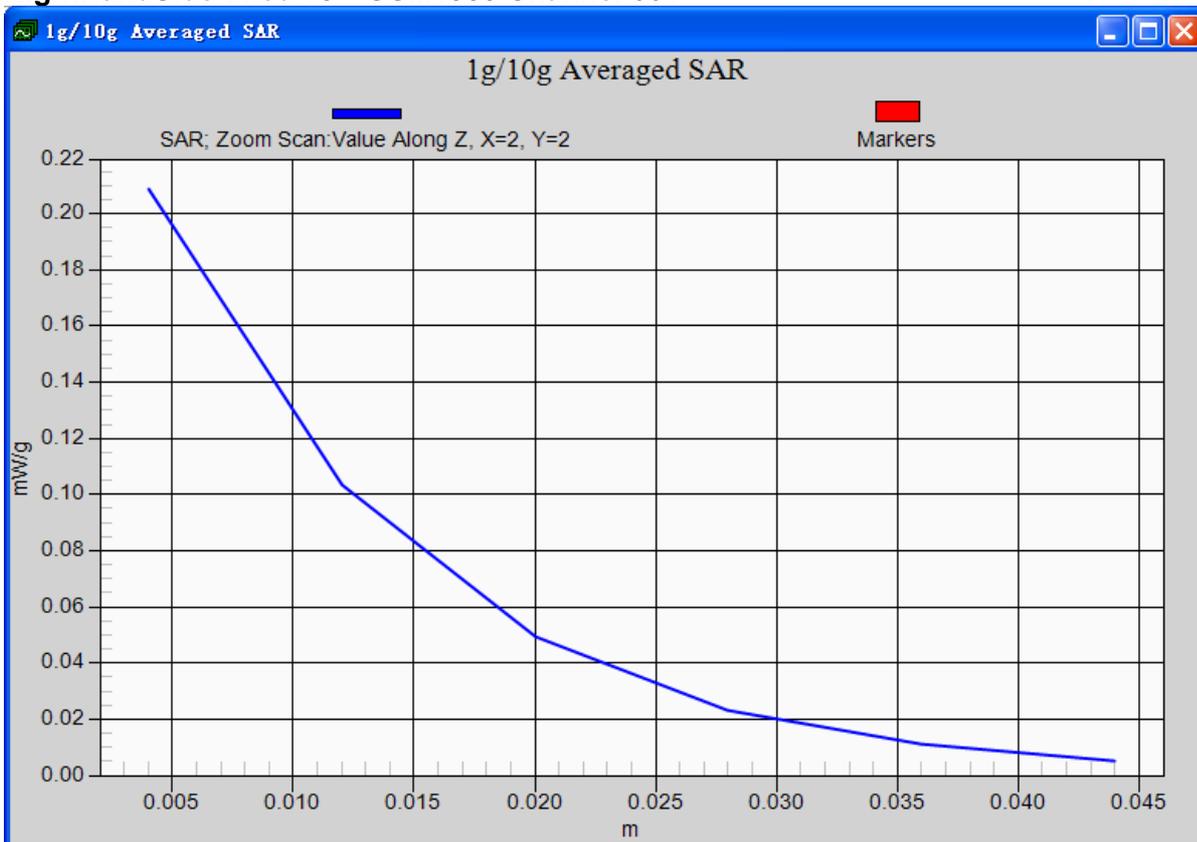
LeftHandSide touched -GSM1900 Channel 810
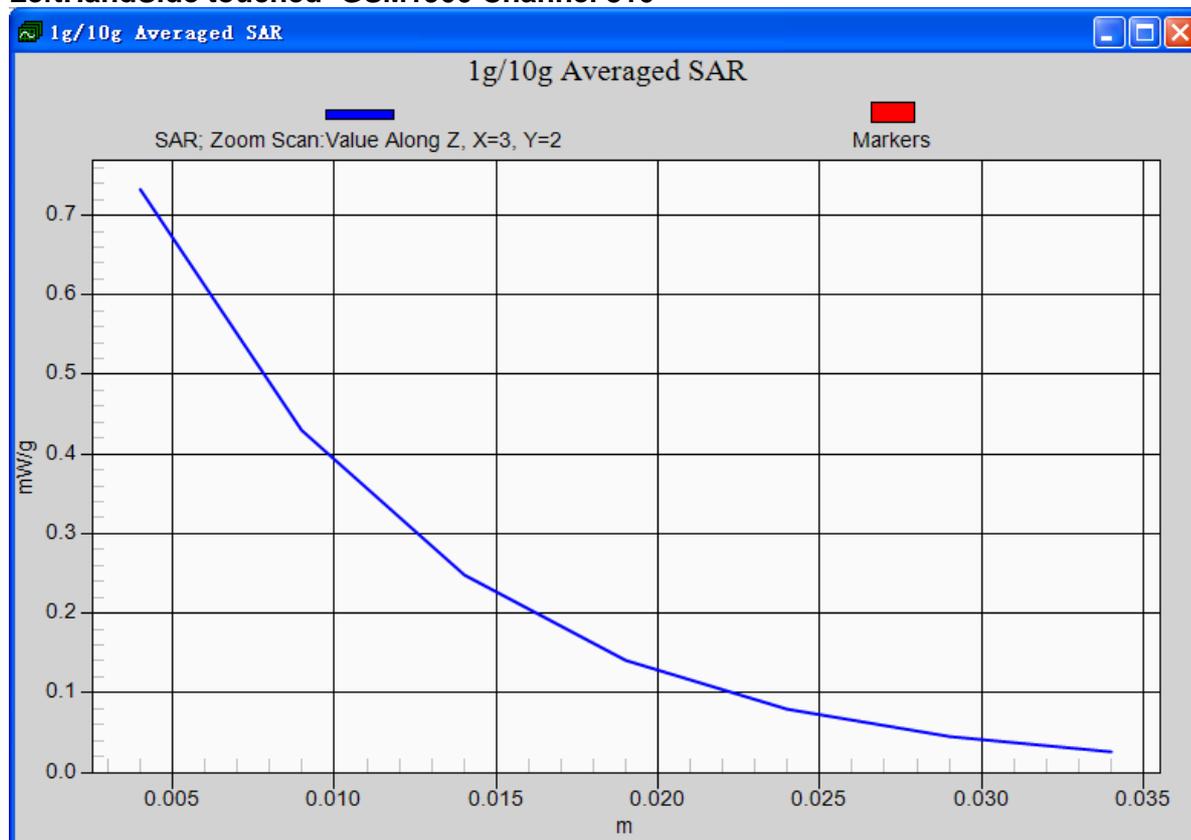
LeftHandSide touched -GSM1900 Channel 512
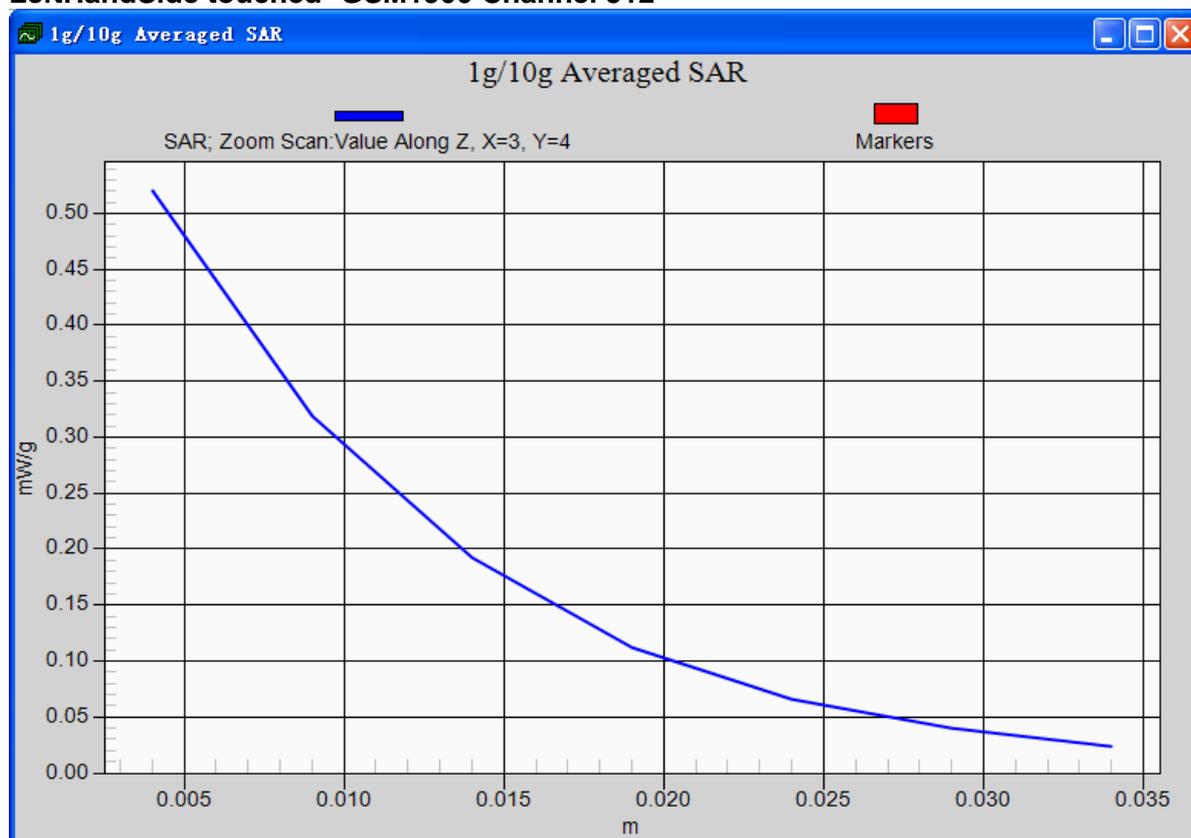
GSM1900 Body:
HUAWEI U7520-5/U7520-5
Towards phantom- GSM1900 GPRS 2TS Channel 661
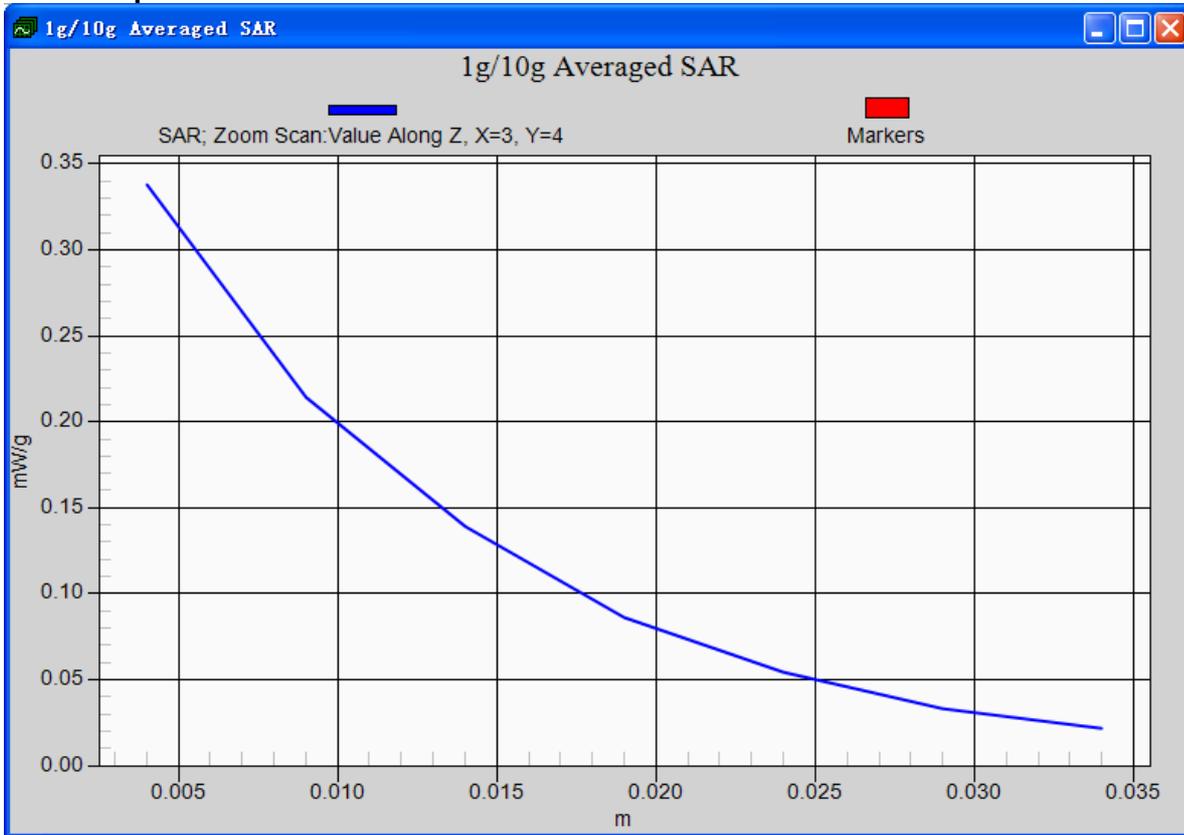
Towards ground- GSM1900 GPRS 2TS Channel 661
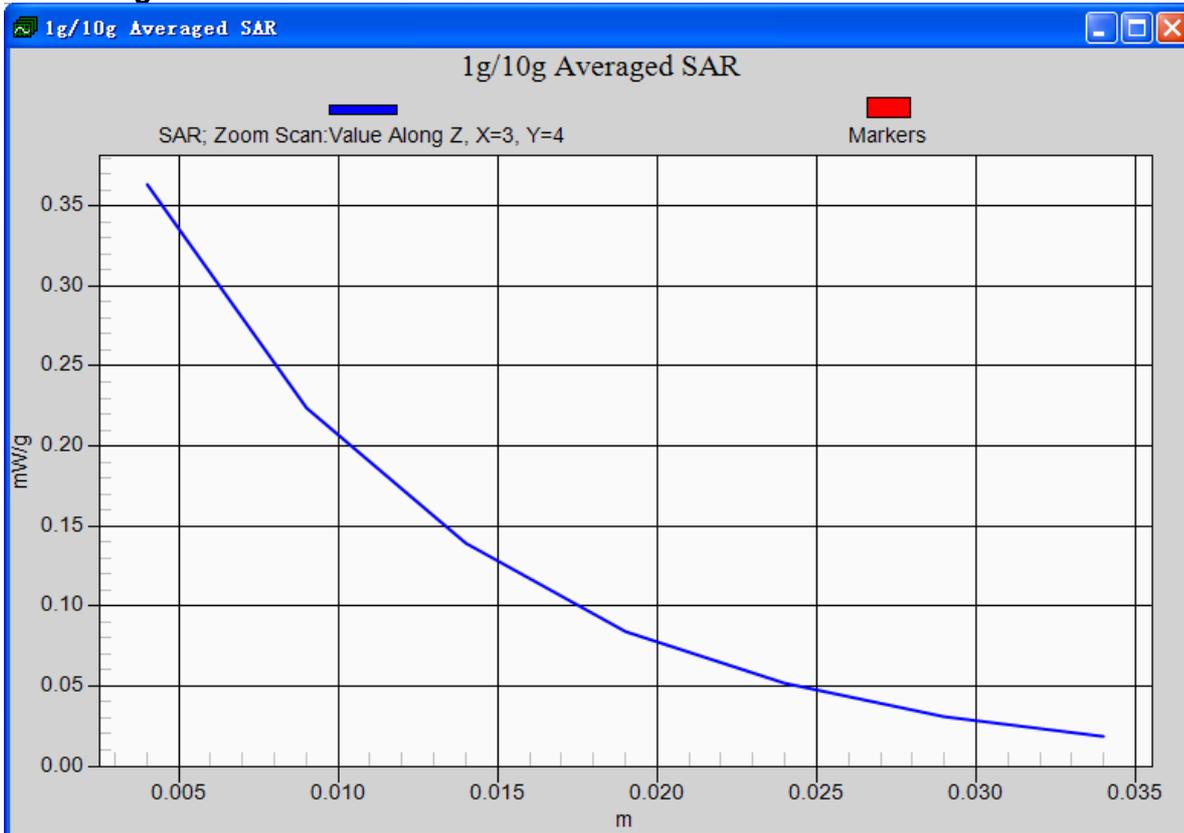
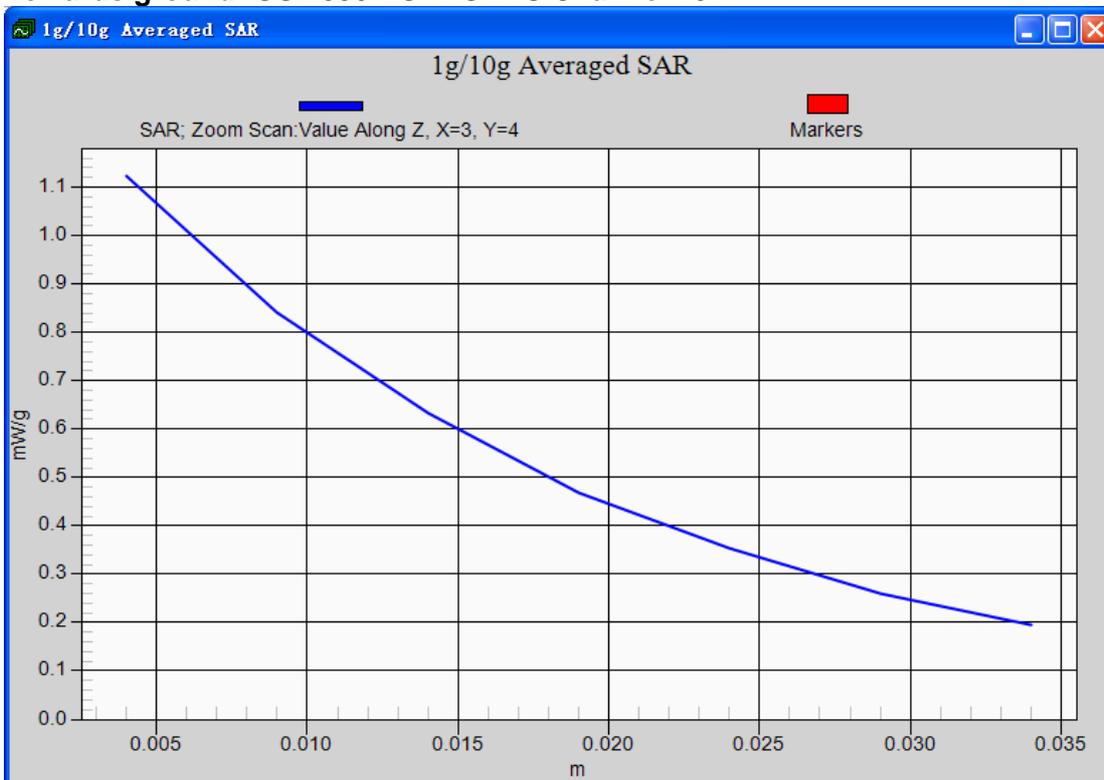**Towards ground- GSM1900 GPRS 2TS Channel 810**
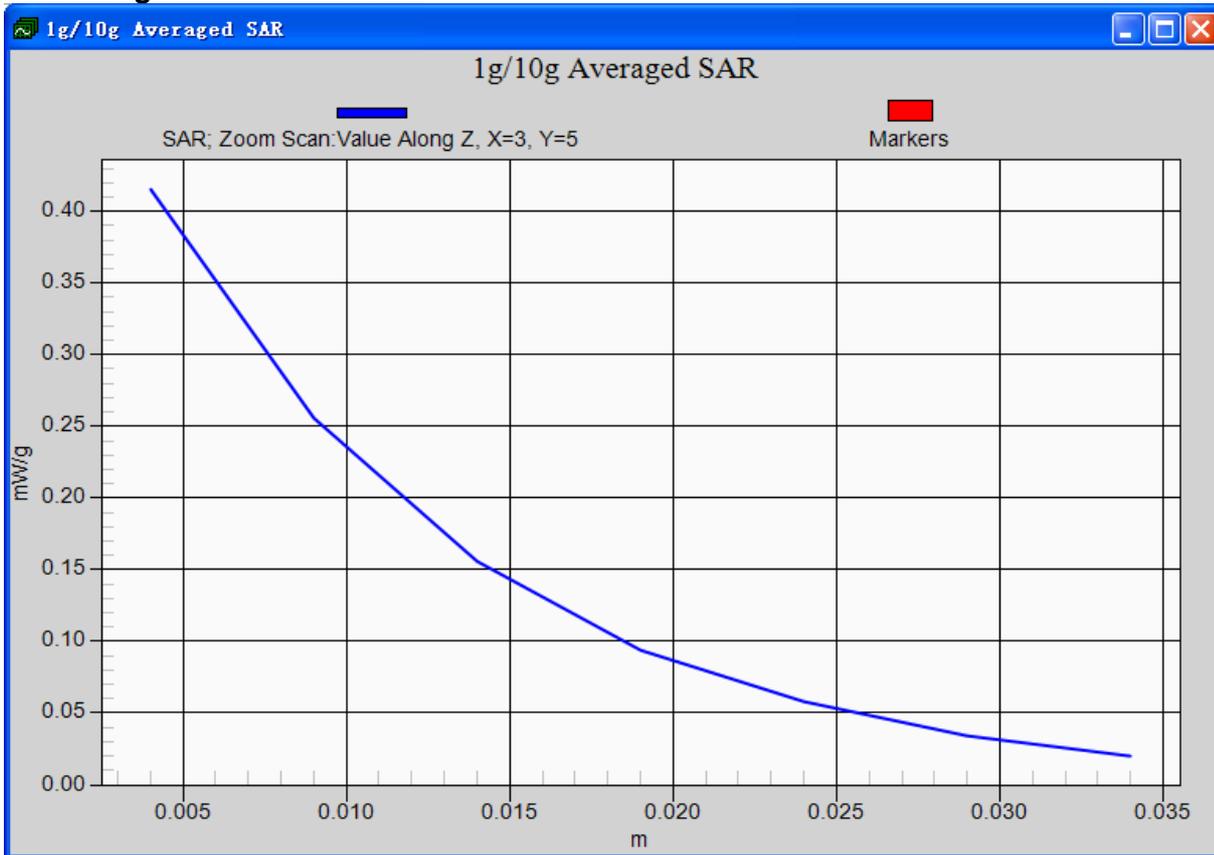
Towards ground- GSM1900 GPRS 2TS Channel 512
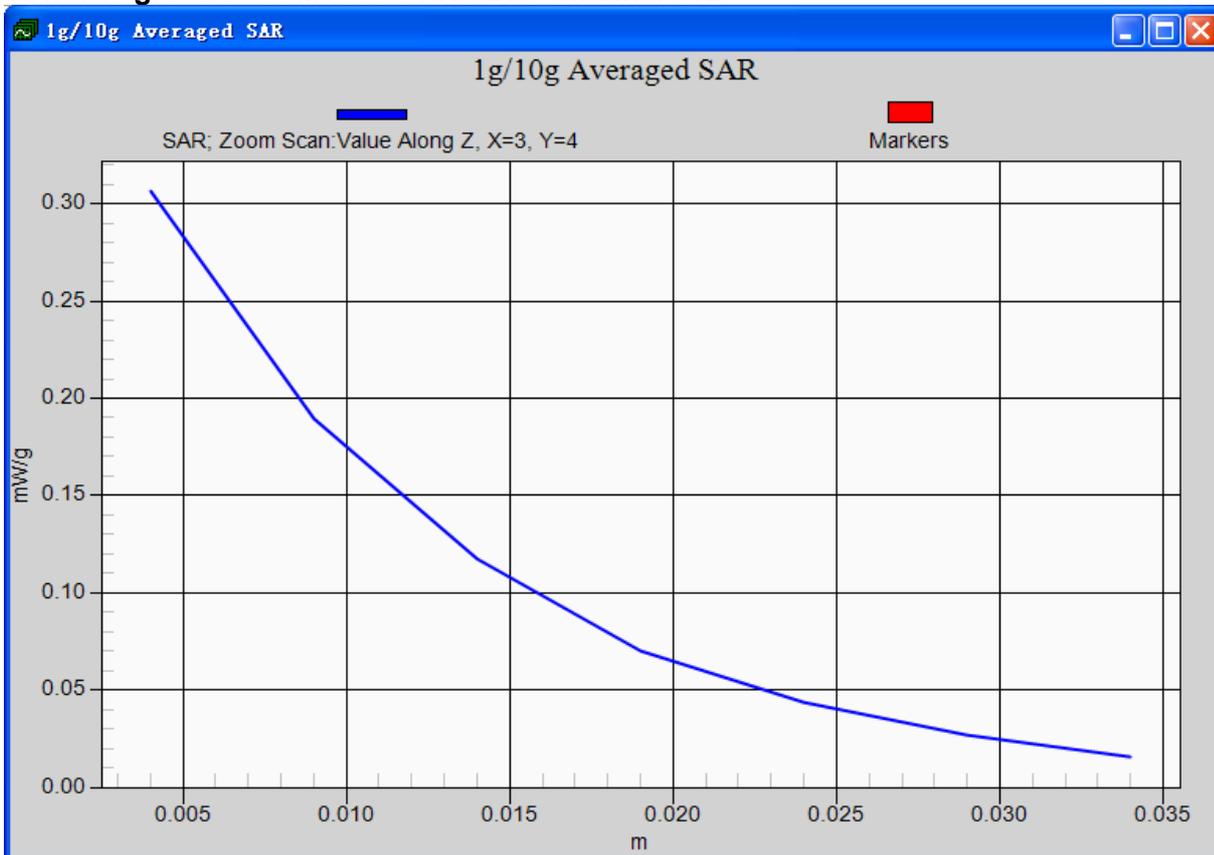
Towards ground- GSM1900 EGPRS 2TS Channel 512
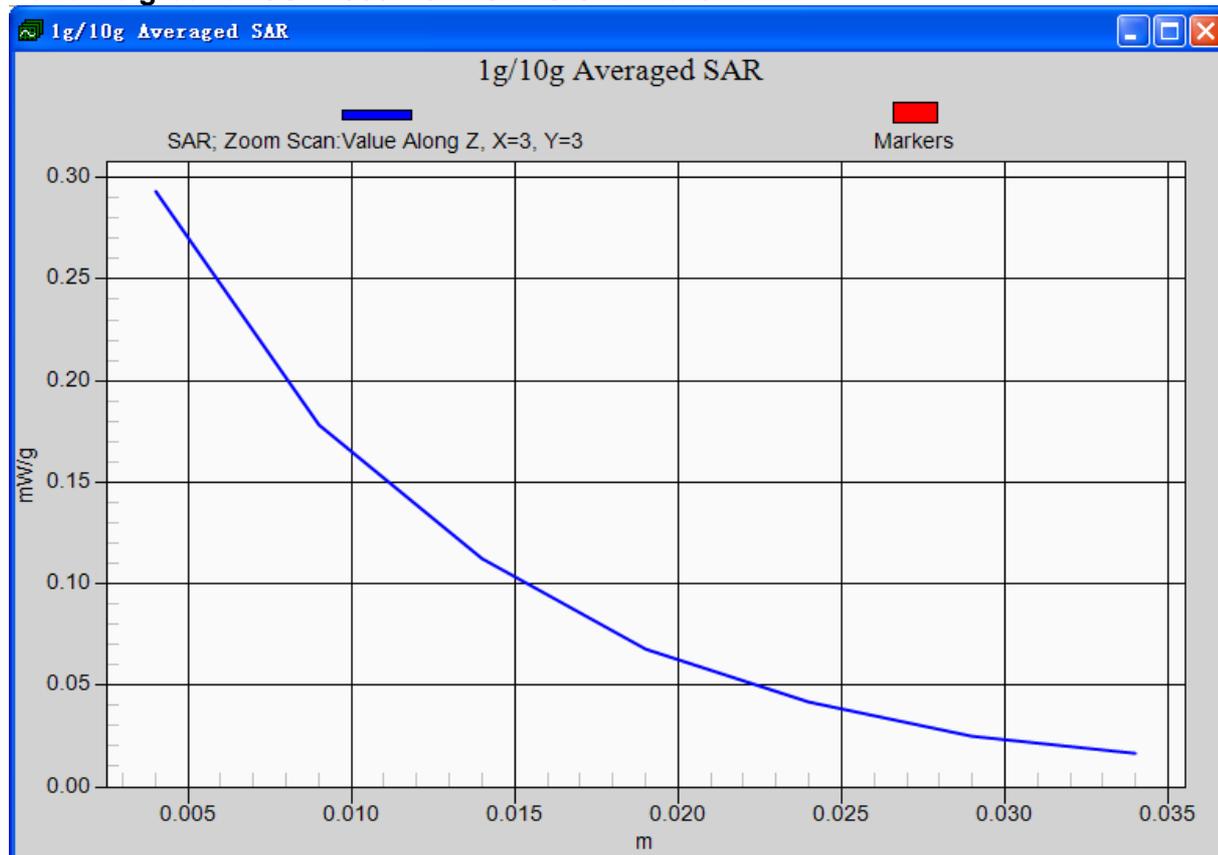
Towards ground- GSM1900 EGPRS 2TS Channel 661
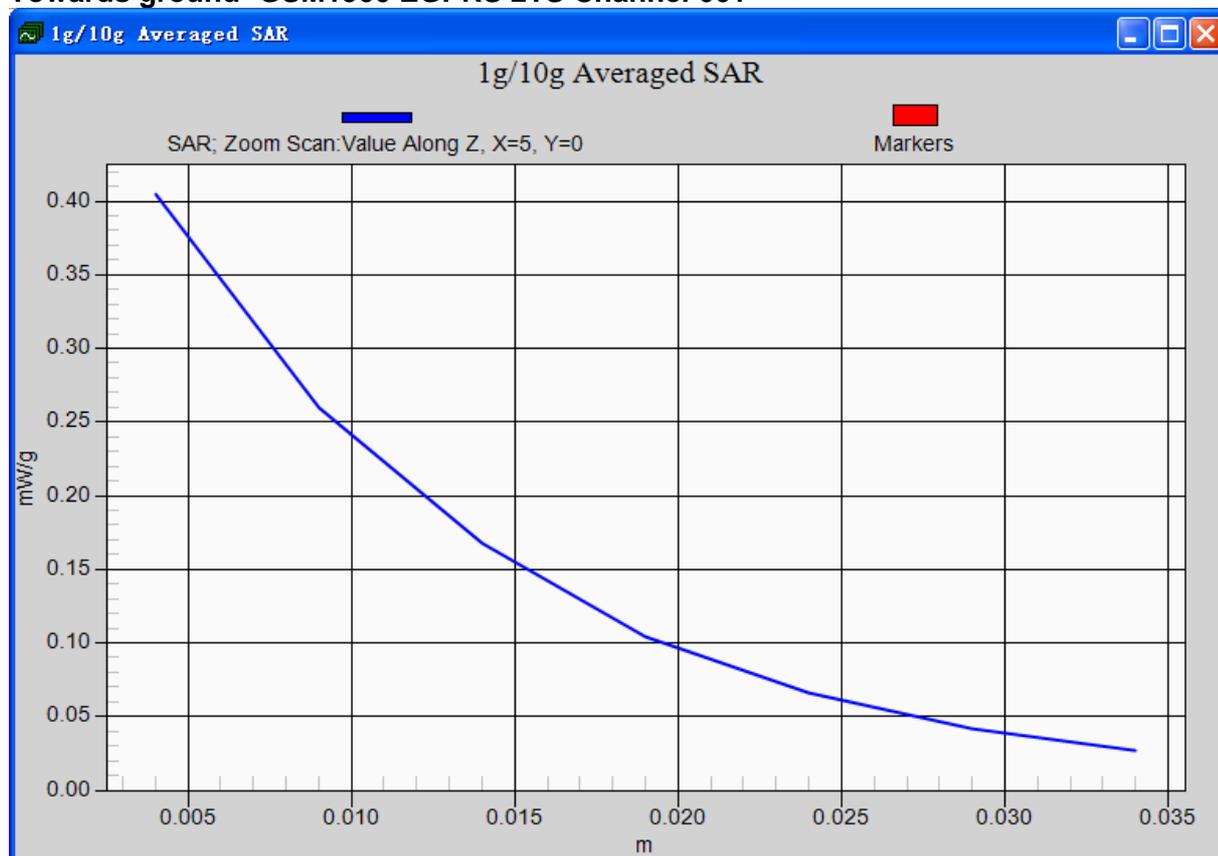
Towards ground- GSM1900 EGPRS 2TS Channel 810
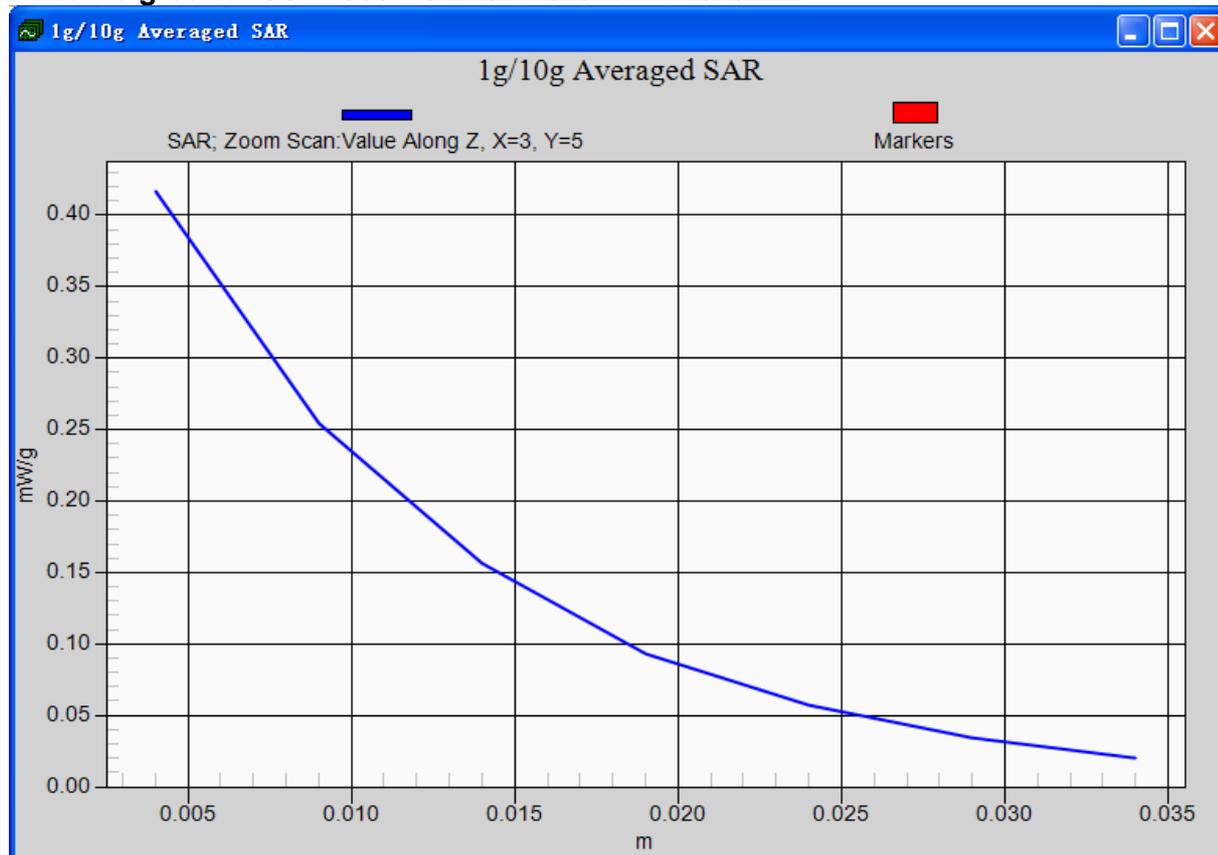
Towards ground- GSM1900 with Headset Channel 810
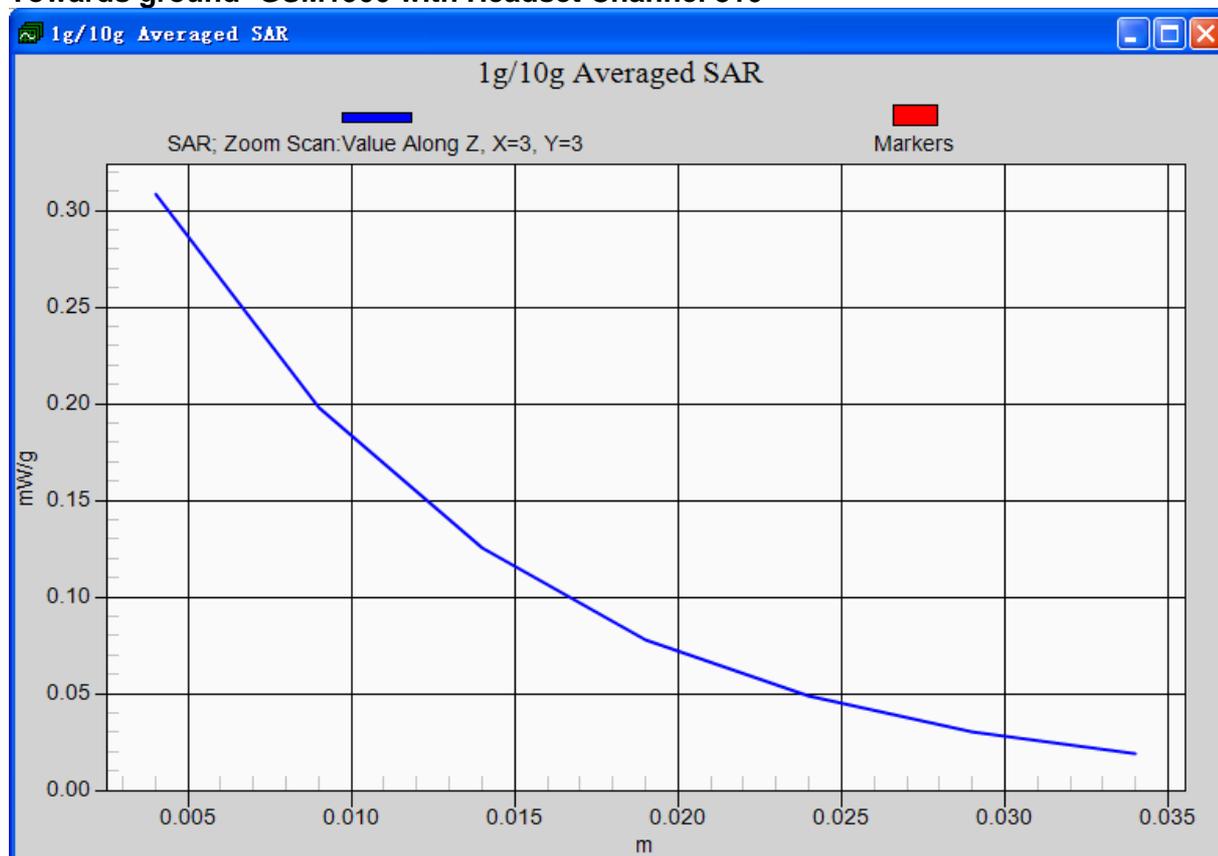
Towards ground- GSM1900 with Bluetooth Headset Channel 810
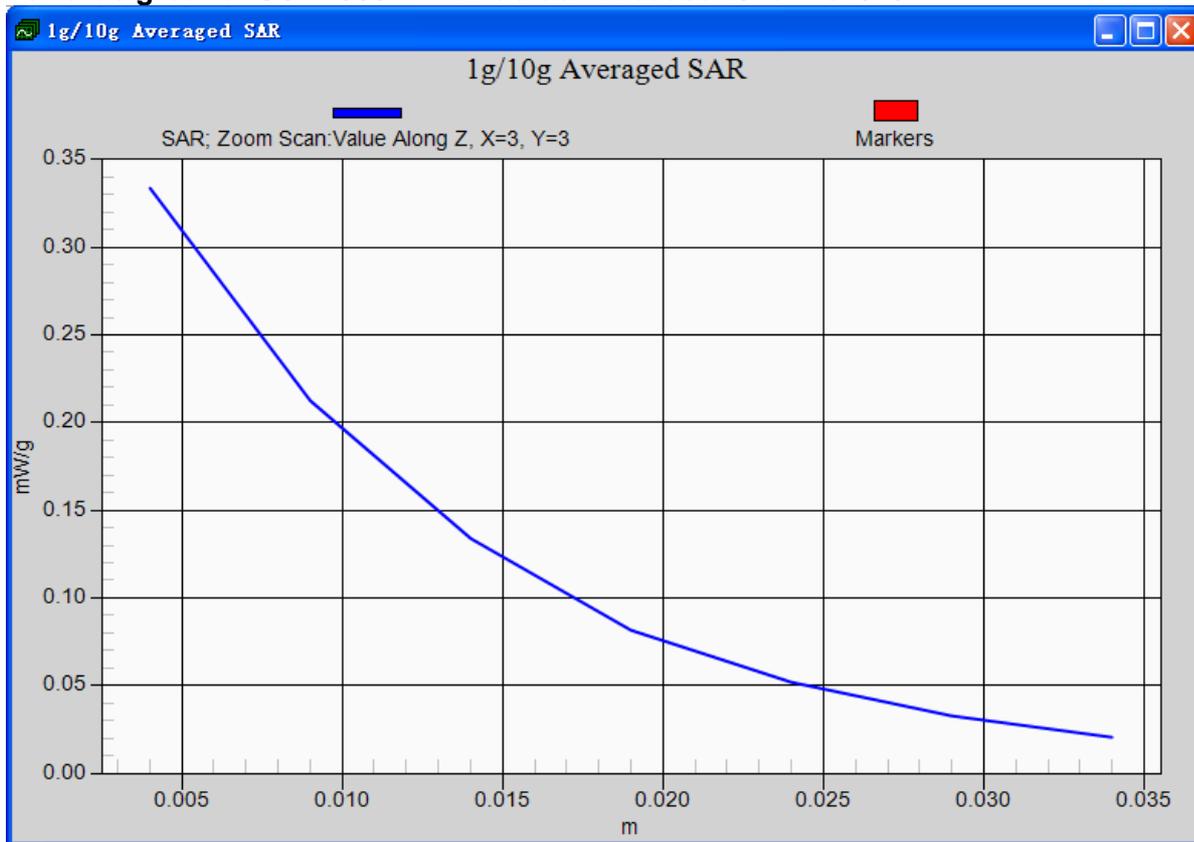
GSM850 Head:
HUAWEI U7520-5/U7520-5
LeftHandSide touched - GSM850 Channel 192
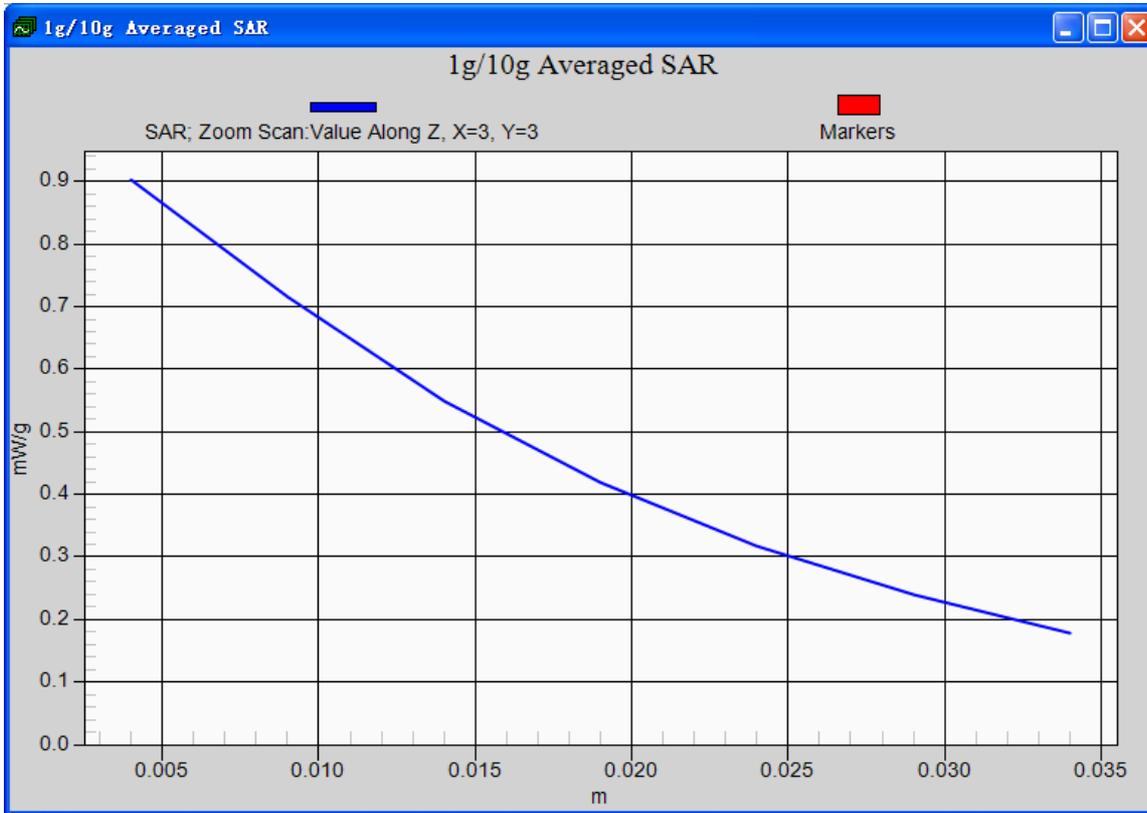
LeftHandSide tilted 15° - GSM850 Channel 192
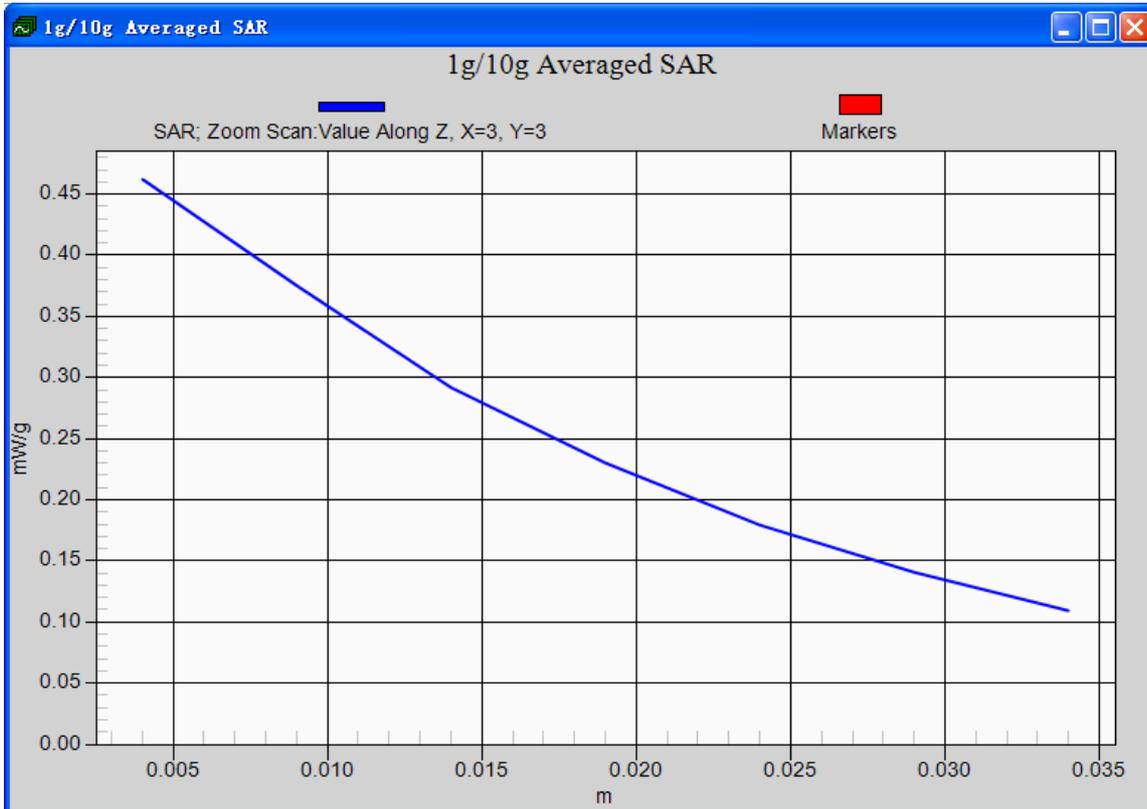
RightHandSide touched - GSM850 Channel 192
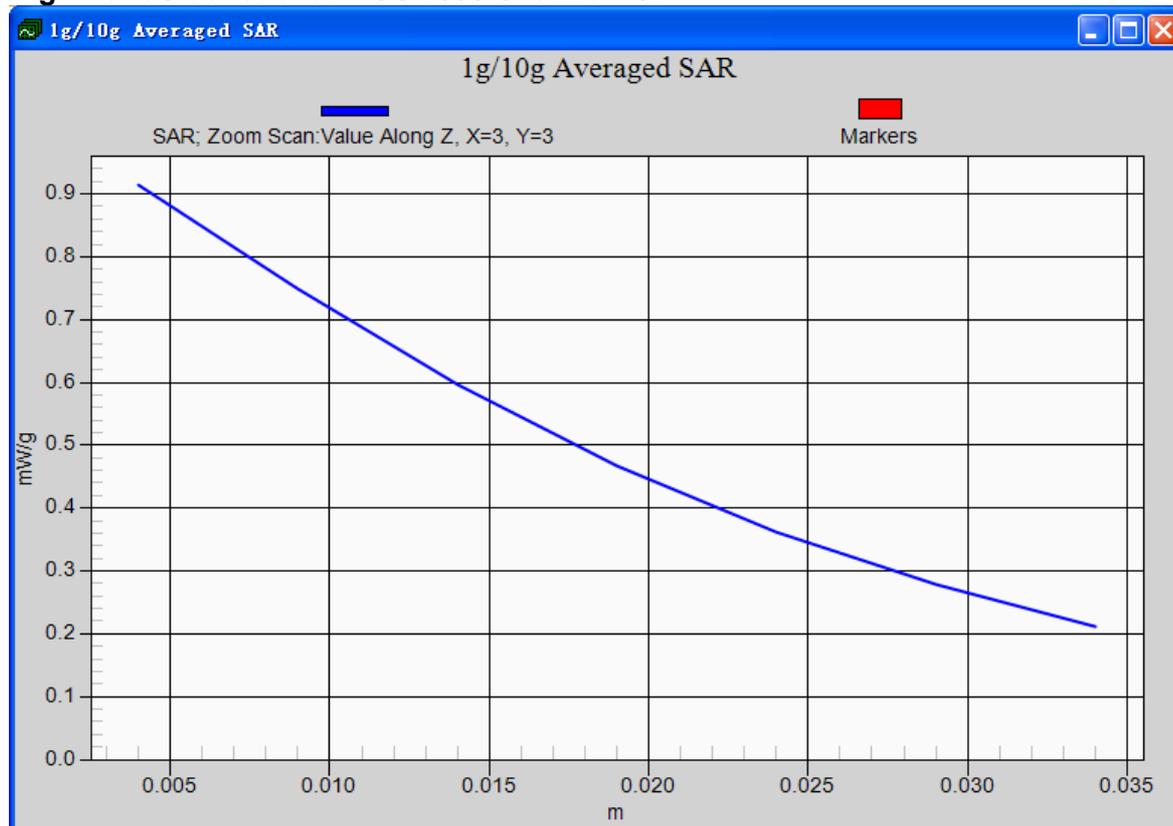
RighttHandSide tilted 15° - GSM850 Channel 192
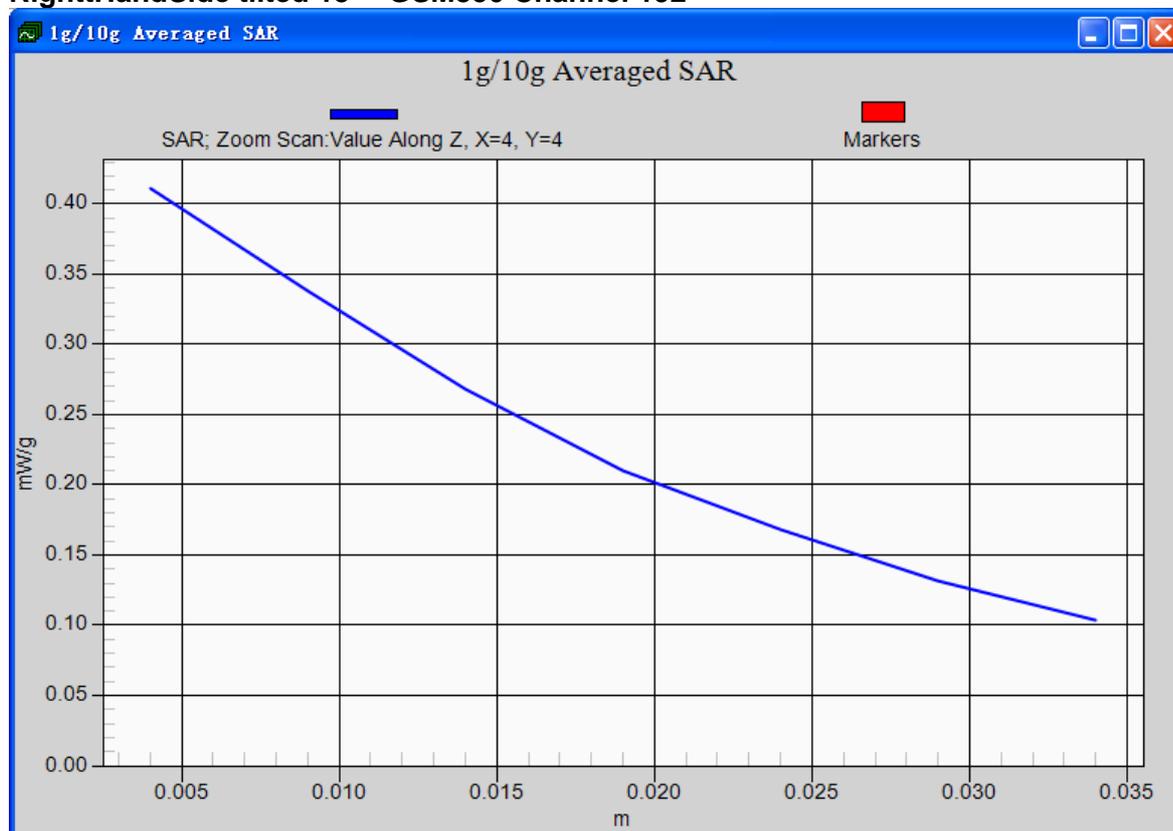
RightHandSide touched - GSM850 Channel 251
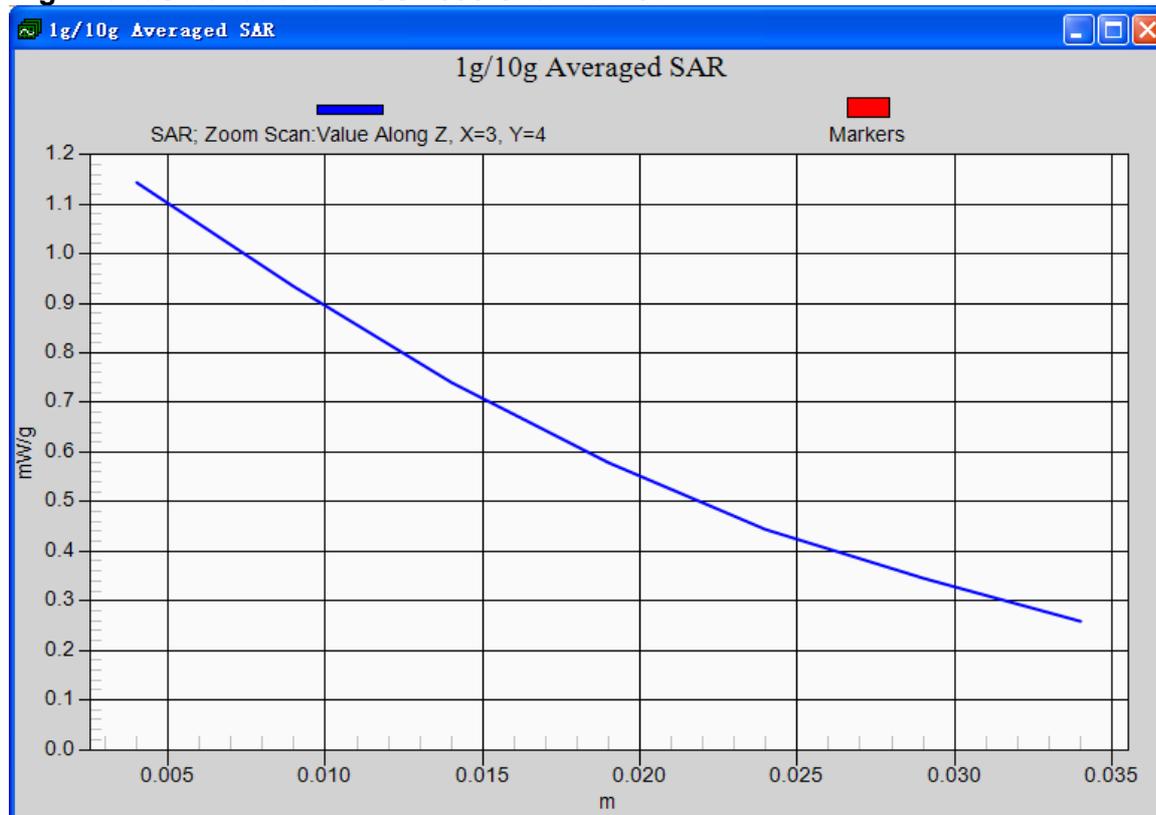
RightHandSide touched - GSM850 Channel 128
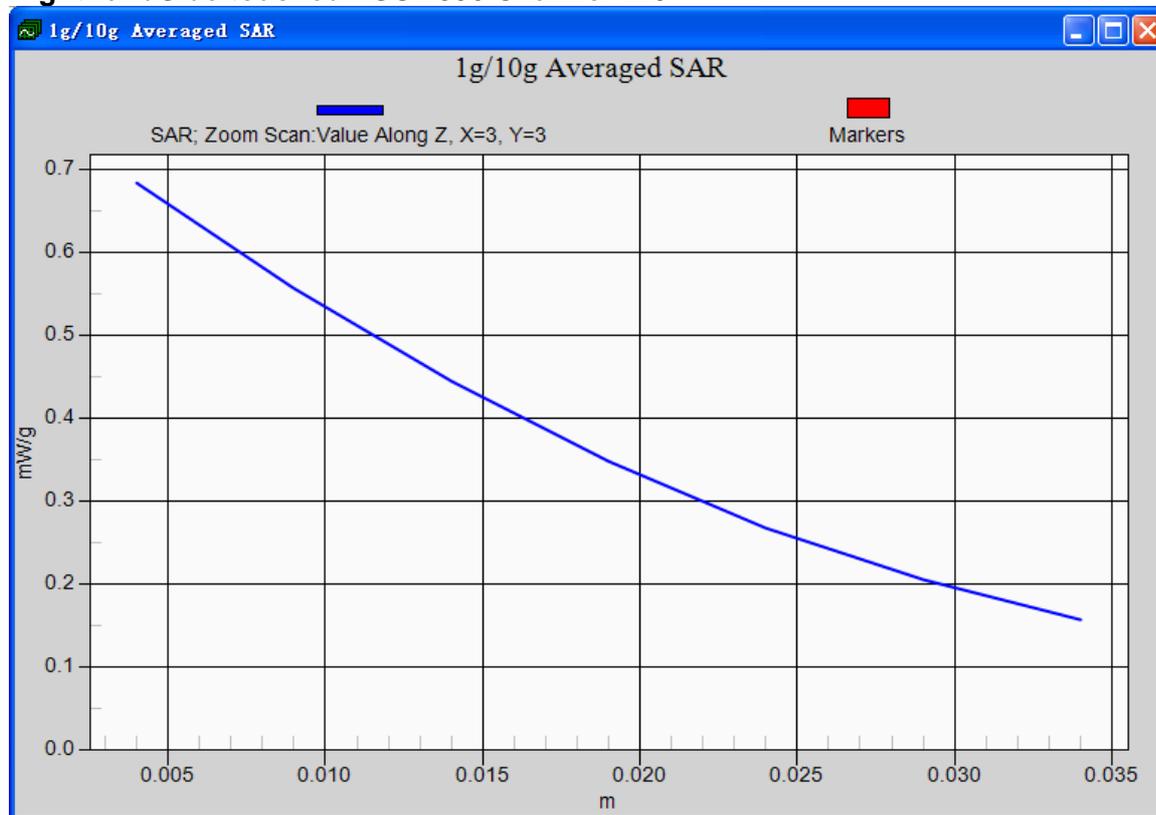
LeftHandSide touched - GSM850 Channel 251
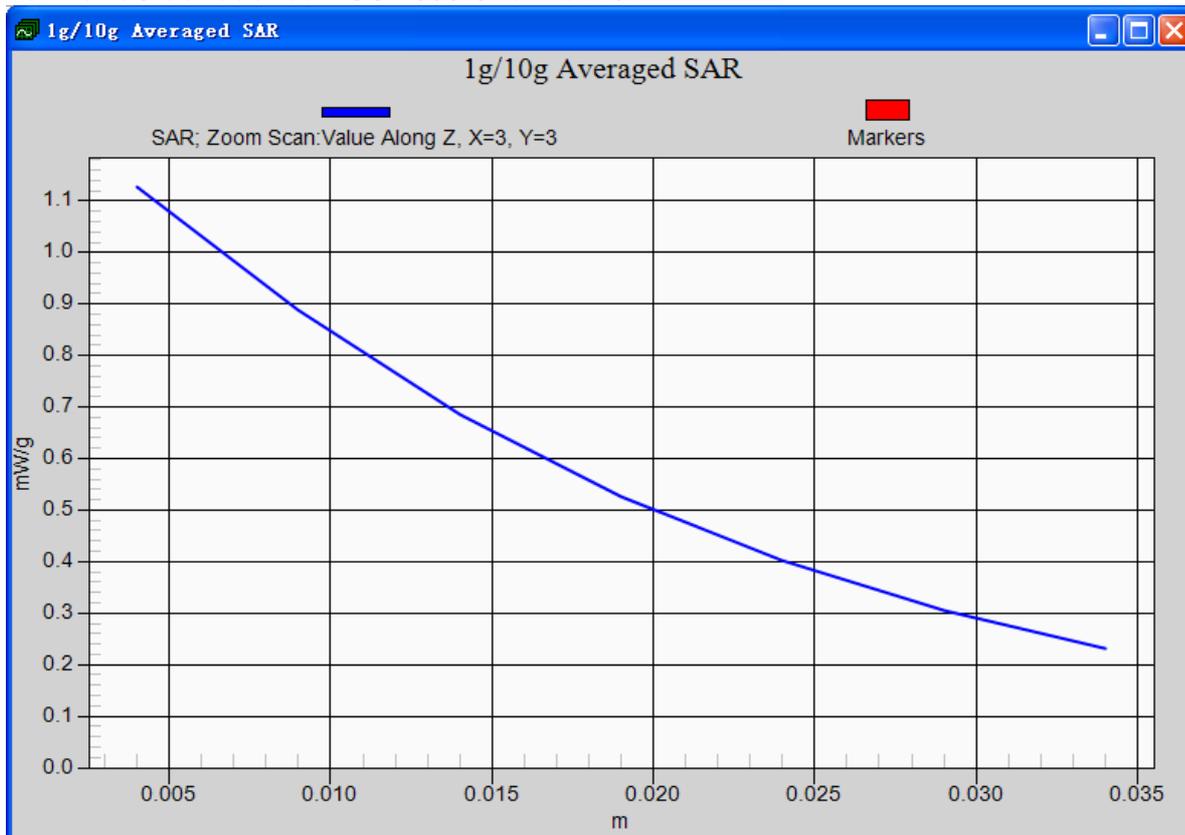
LeftHandSide touched - GSM850 Channel 128
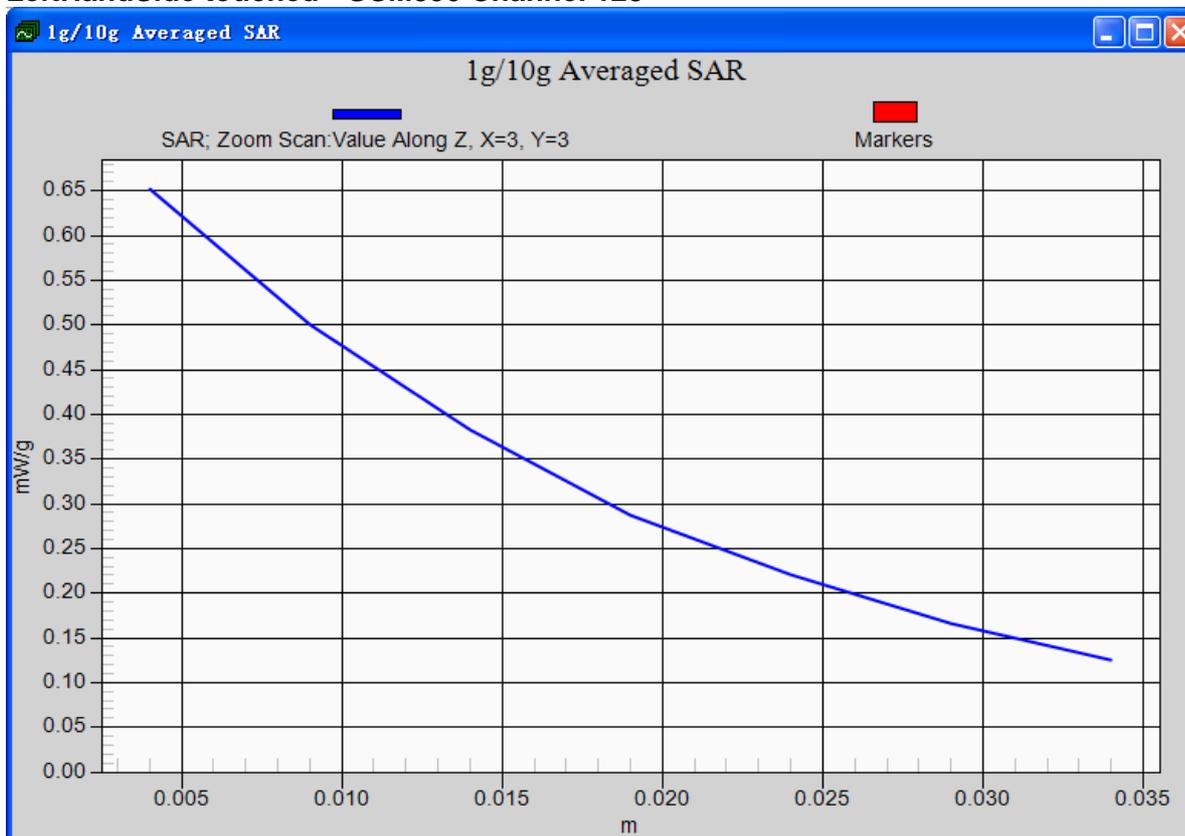
GSM850 Body:
HUAWEI U7520-5/U7520-5
Towards phantom- GSM850 GPRS 2TS Channel 192
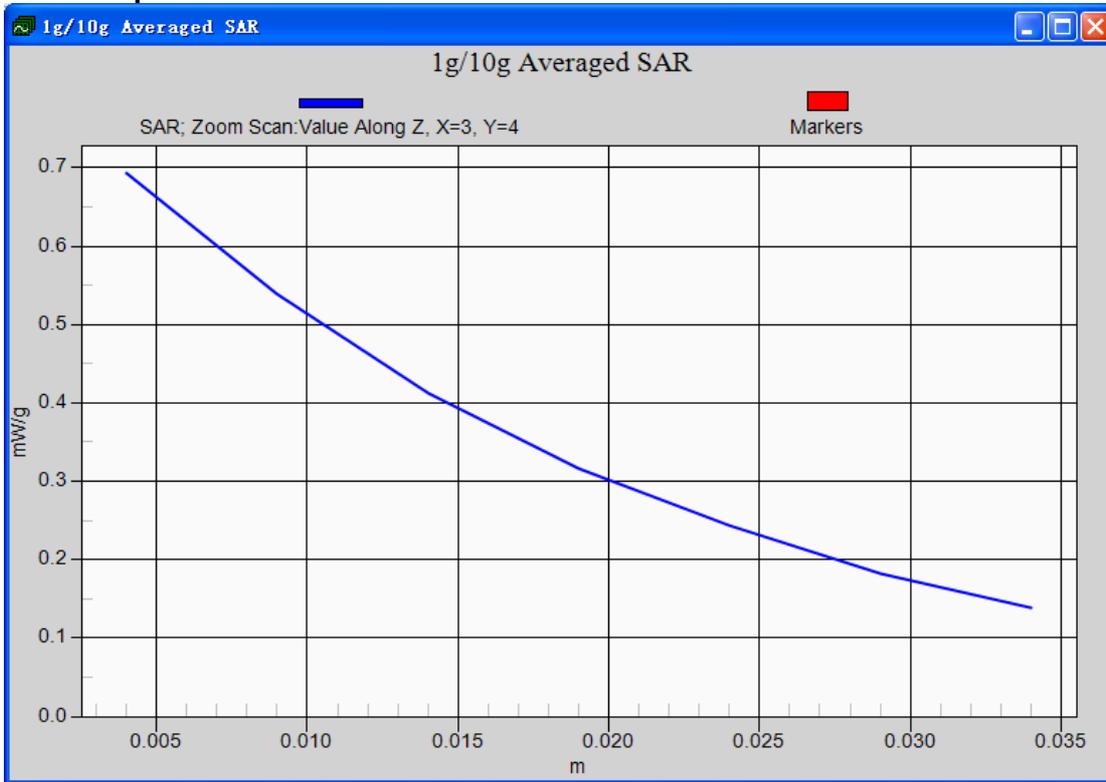
Towards ground- GSM850 GPRS 2TS Channel 192
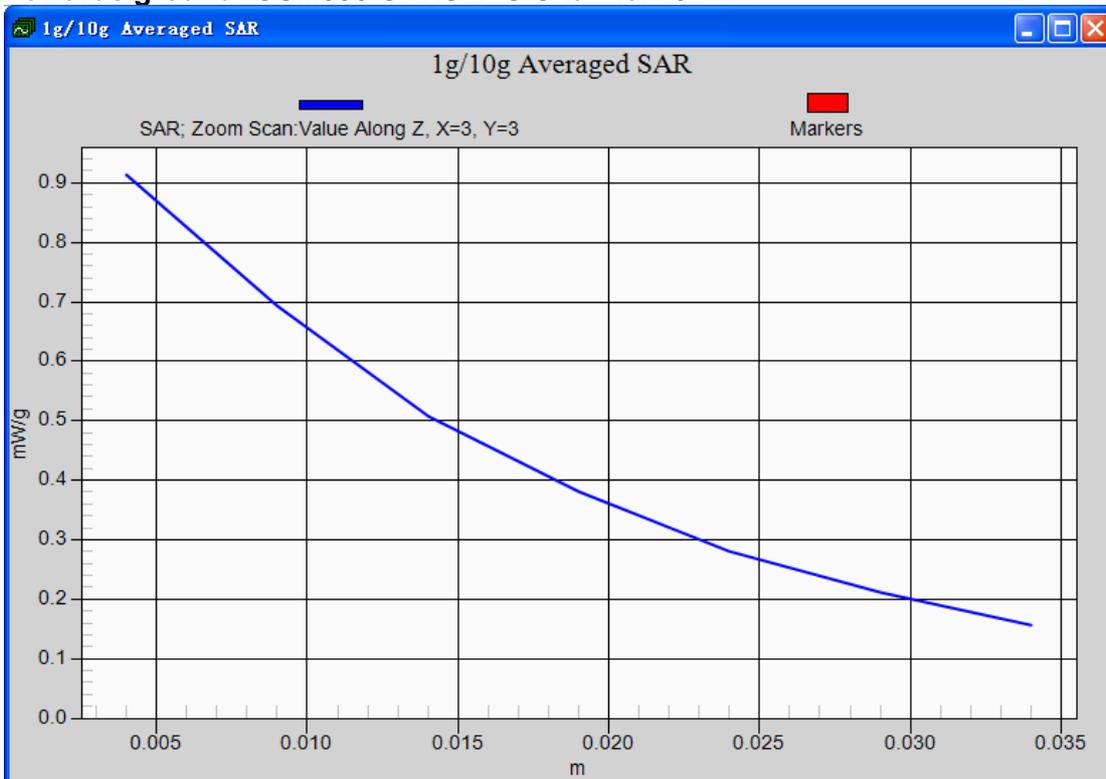
Towards ground- GSM850 GPRS 2TS Channel 251
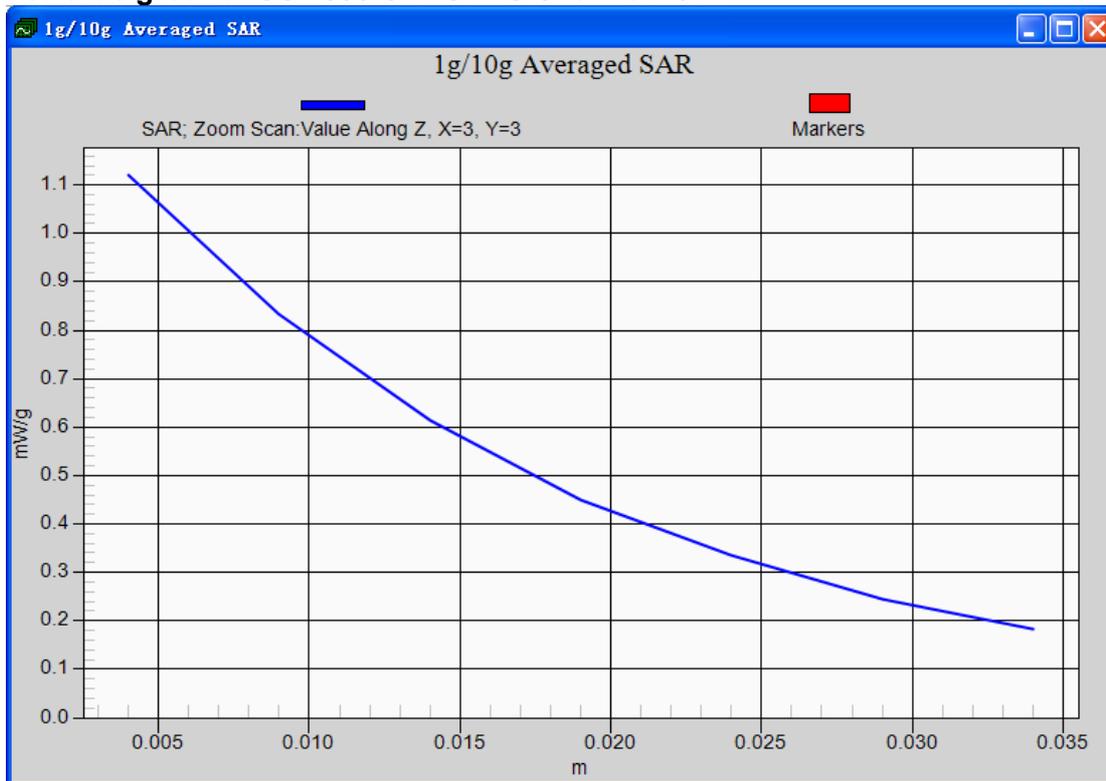
Towards ground- GSM850 GPRS 2TS Channel 128
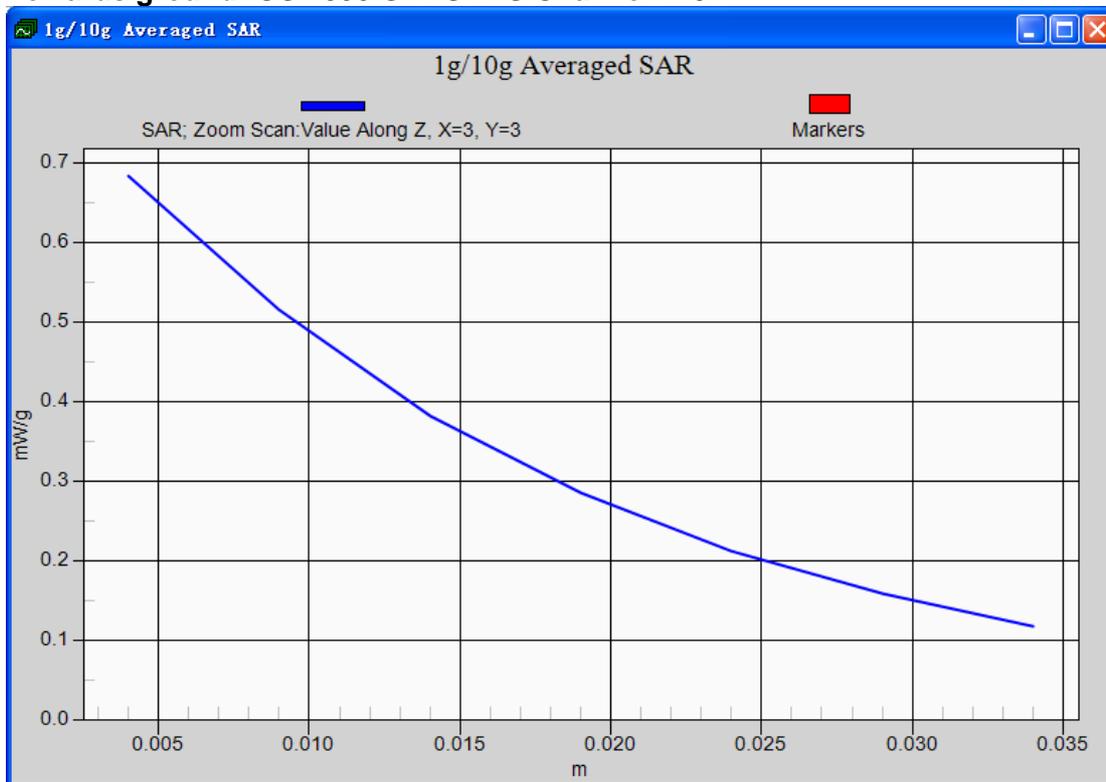
Towards ground- GSM850 EGPRS 2TS Channel 192
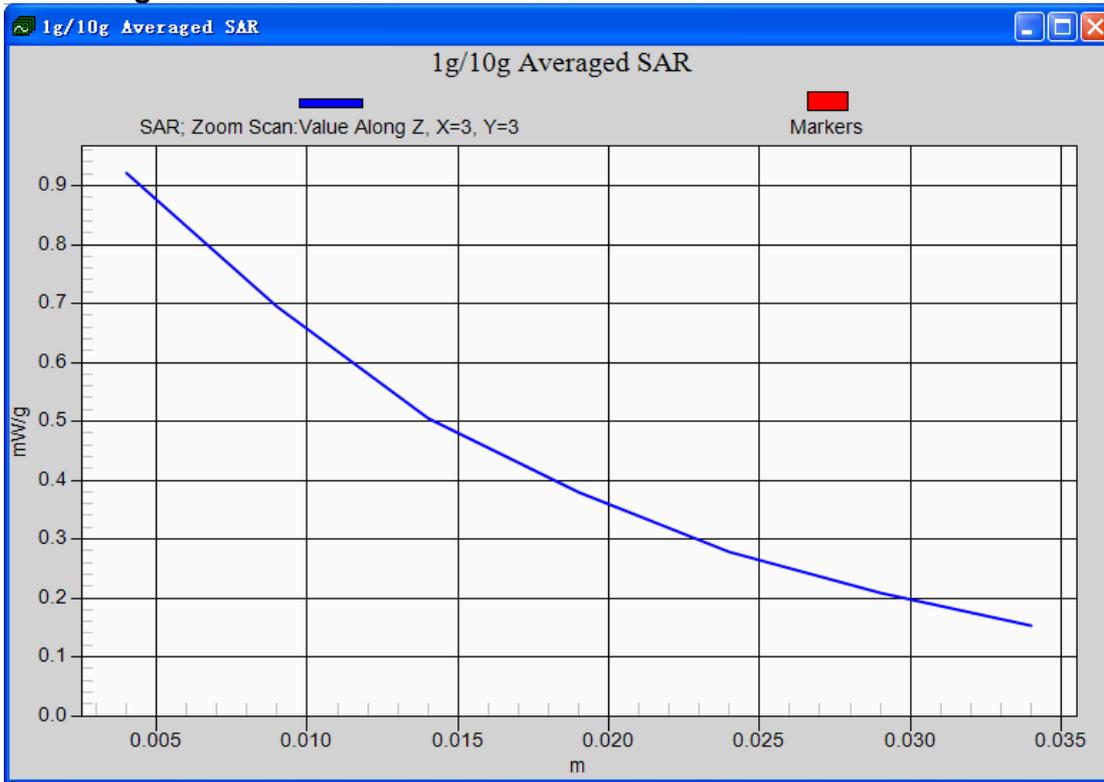
Towards ground- GSM850 EGPRS 2TS Channel 251

Towards ground- GSM850 EGPRS 2TS Channel 128
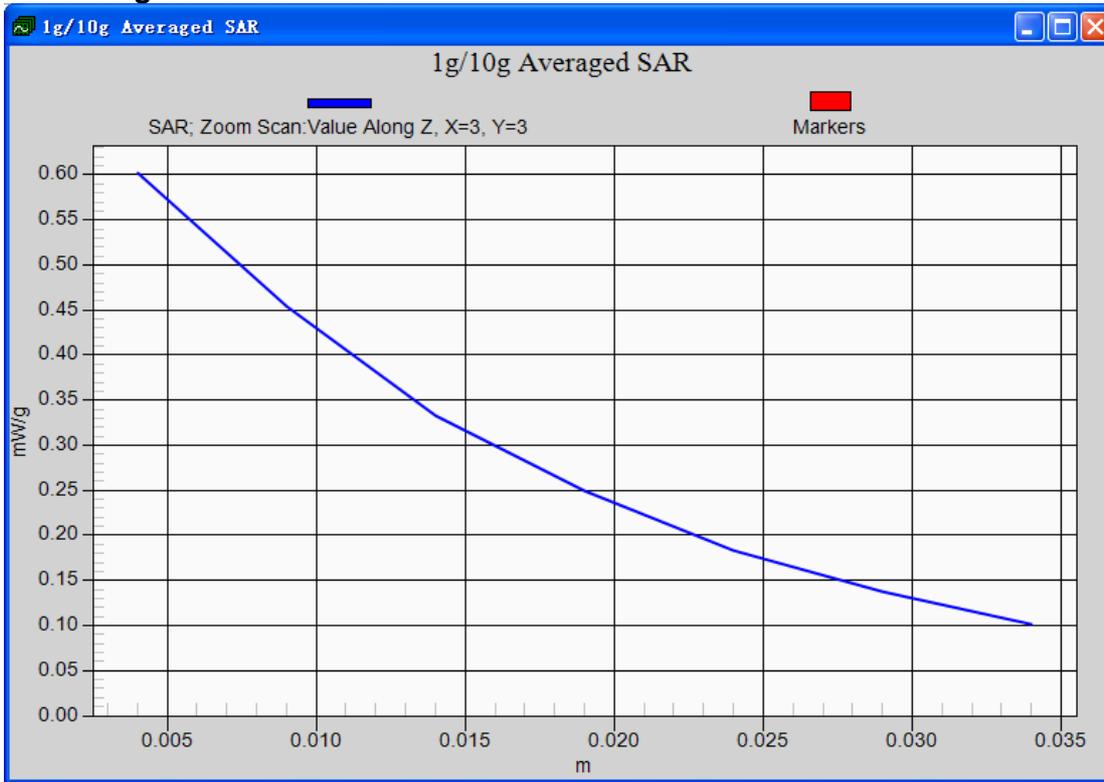
Towards ground with Headset- GSM850 Channel 251
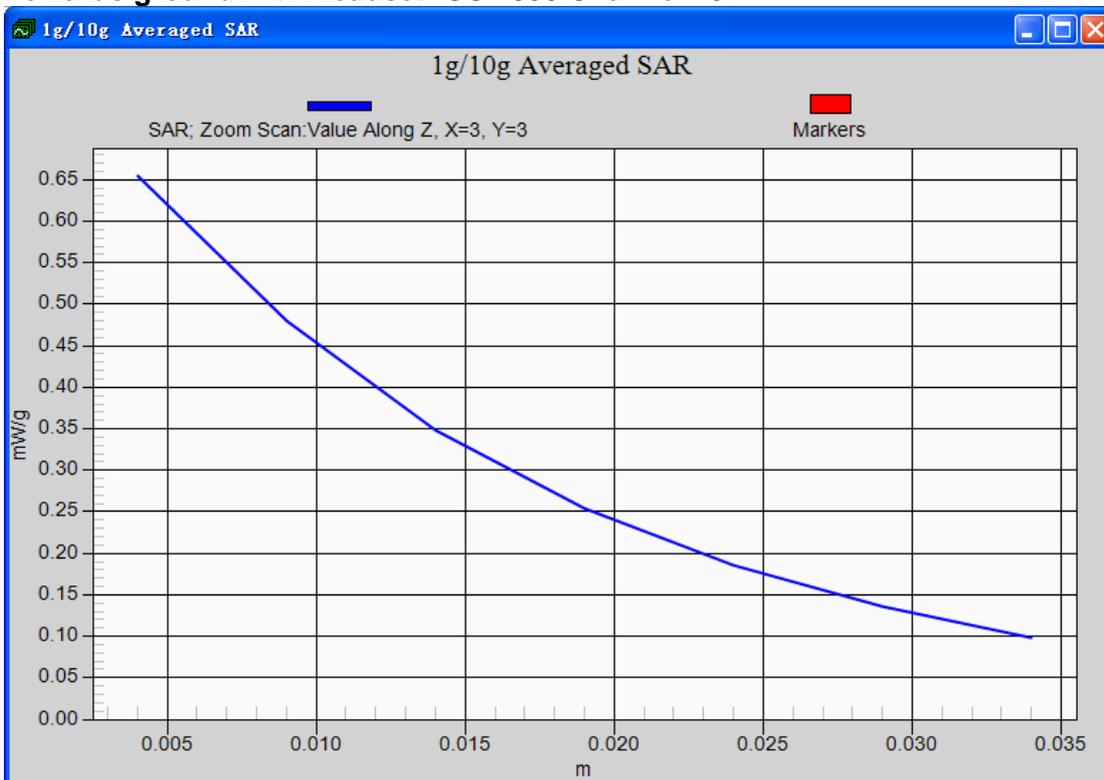
Towards ground with Bluetooth Headset- GSM850 Channel 251
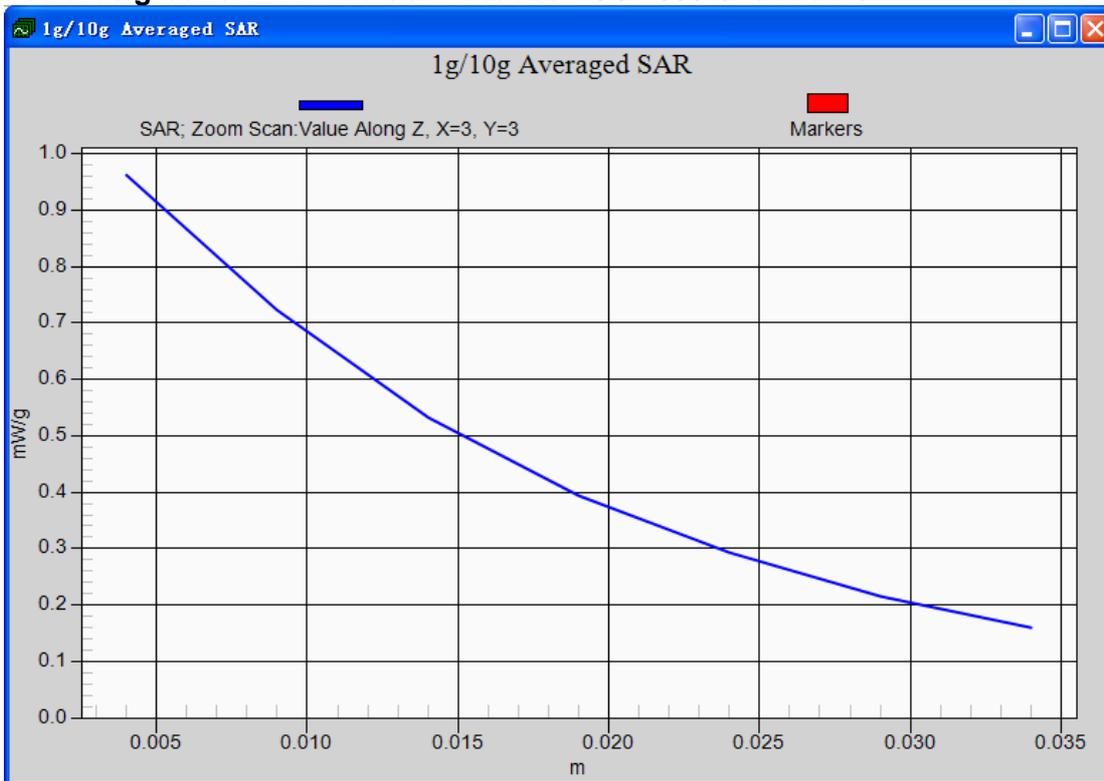
WCDMA1900 Head:
HUAWEI U7520-5/U7520-5
LeftHandSide touched – WCDMA1900 Channel 9400
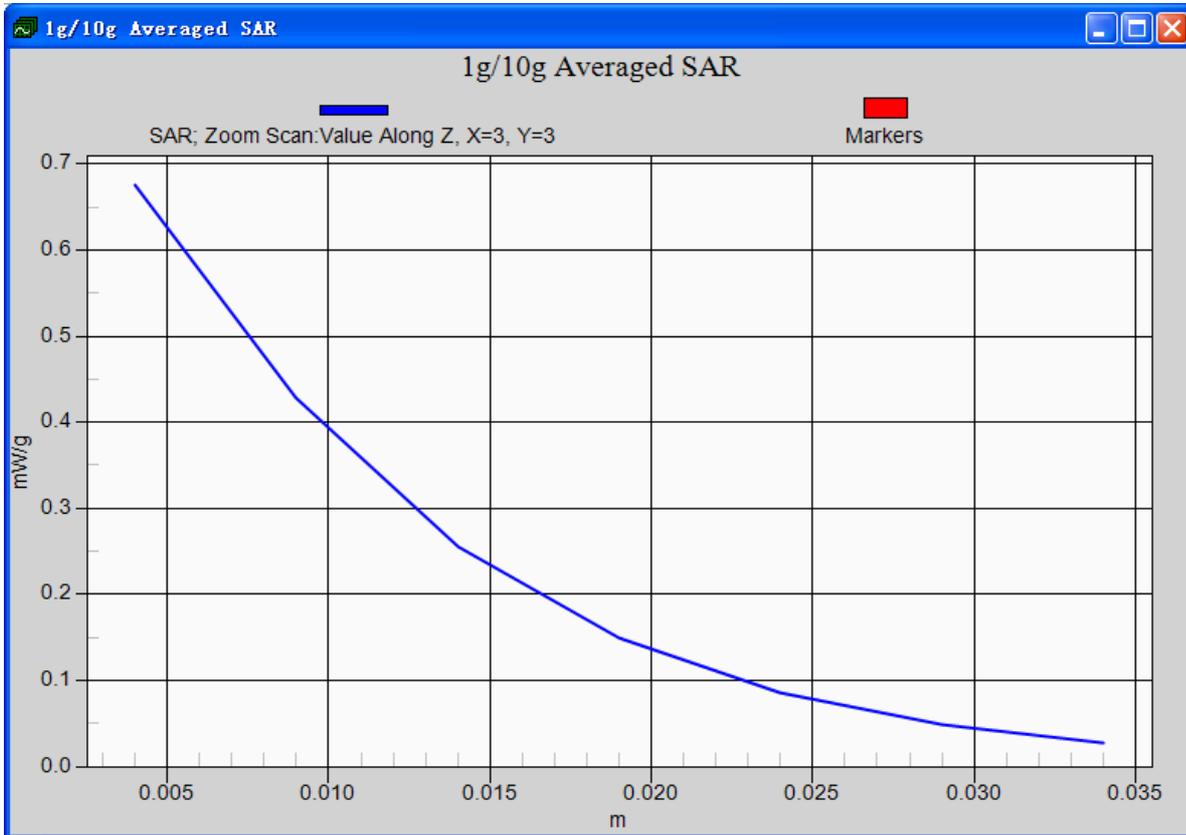
LeftHandSide tilted 15°– WCDMA1900 Channel 9400
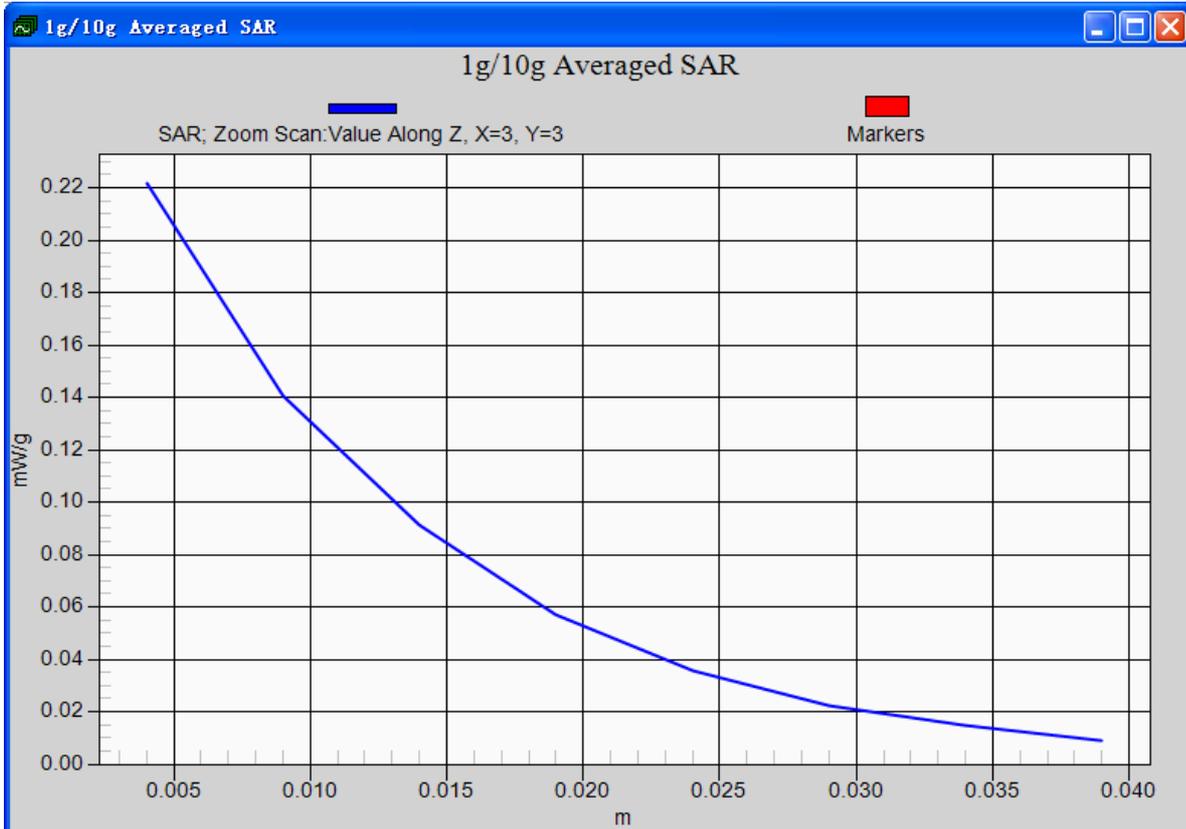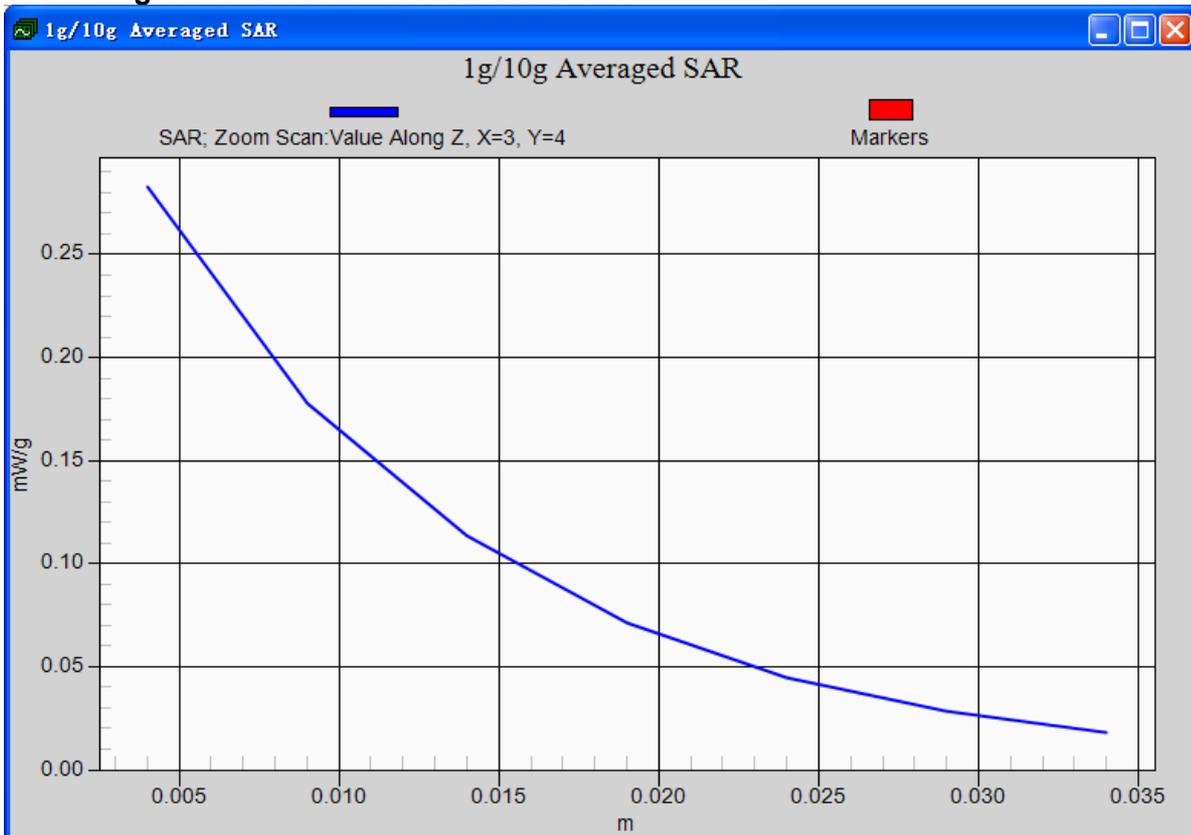
RightHandSide touched – WCDMA1900 Channel 9400
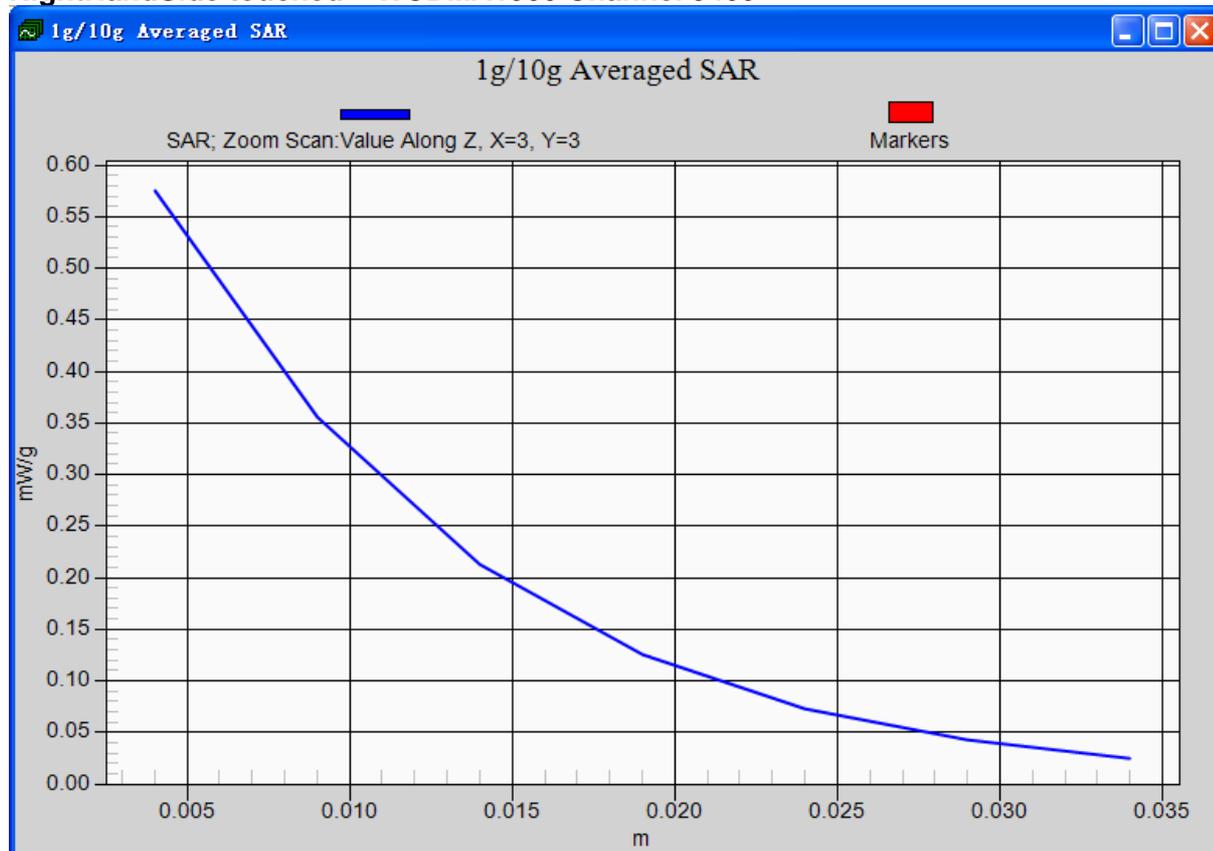
RightHandSide tilted 15° - WCDMA1900 Channel 9400
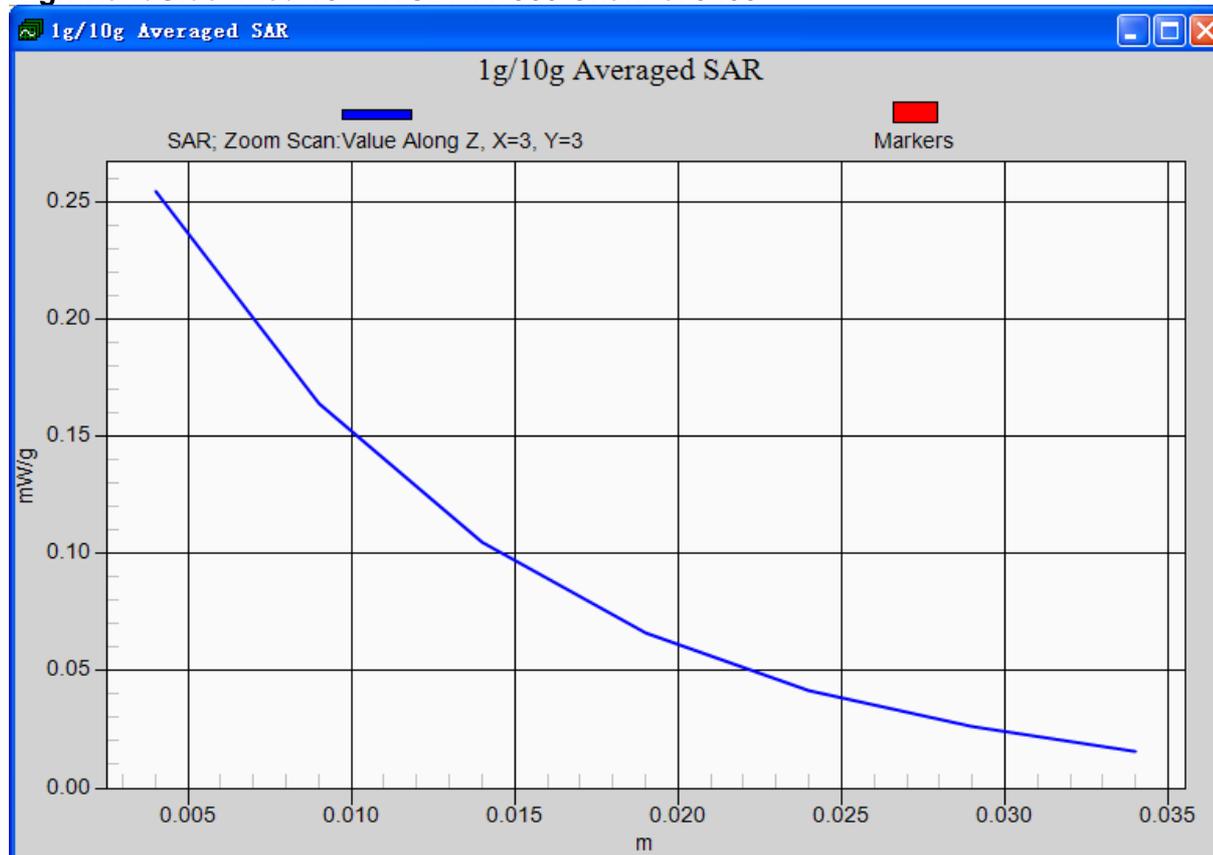
LeftHandSide touched – WCDMA1900 Channel 9538
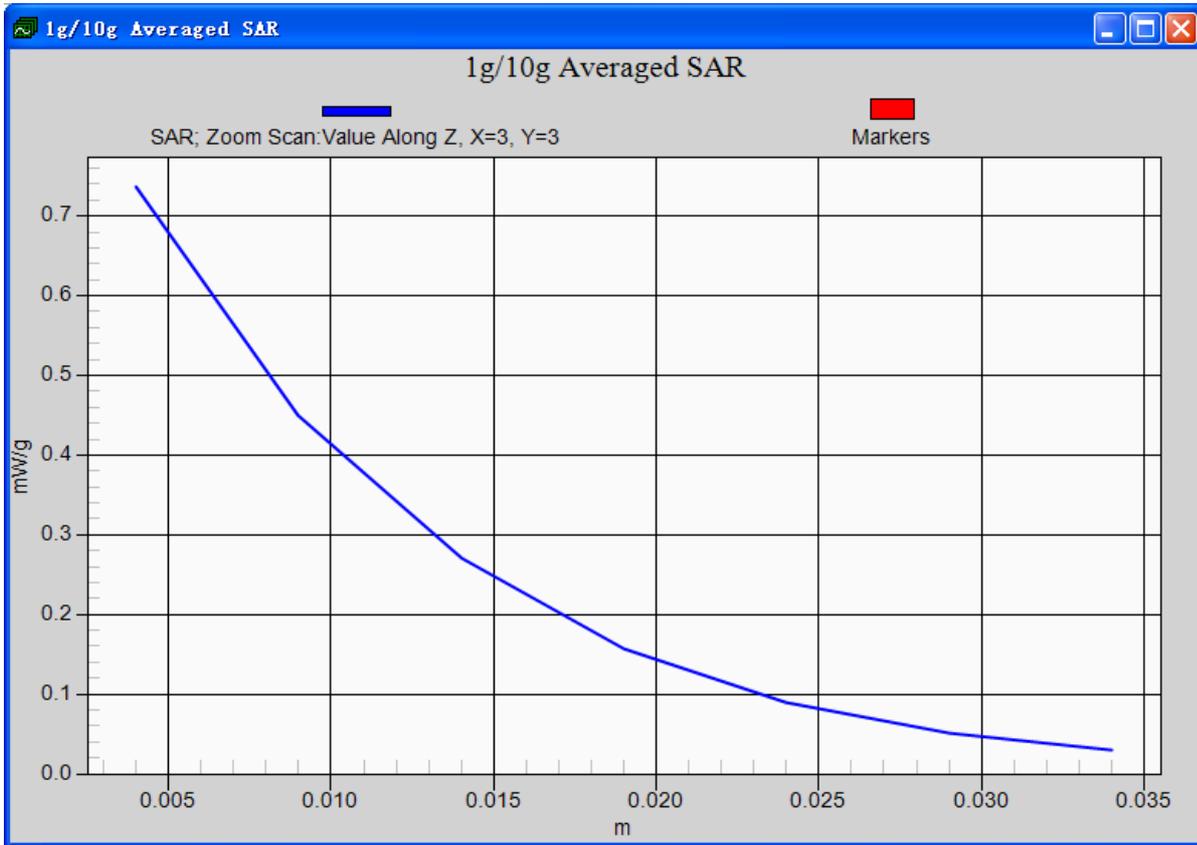
LeftHandSide touched – WCDMA1900 Channel 9262
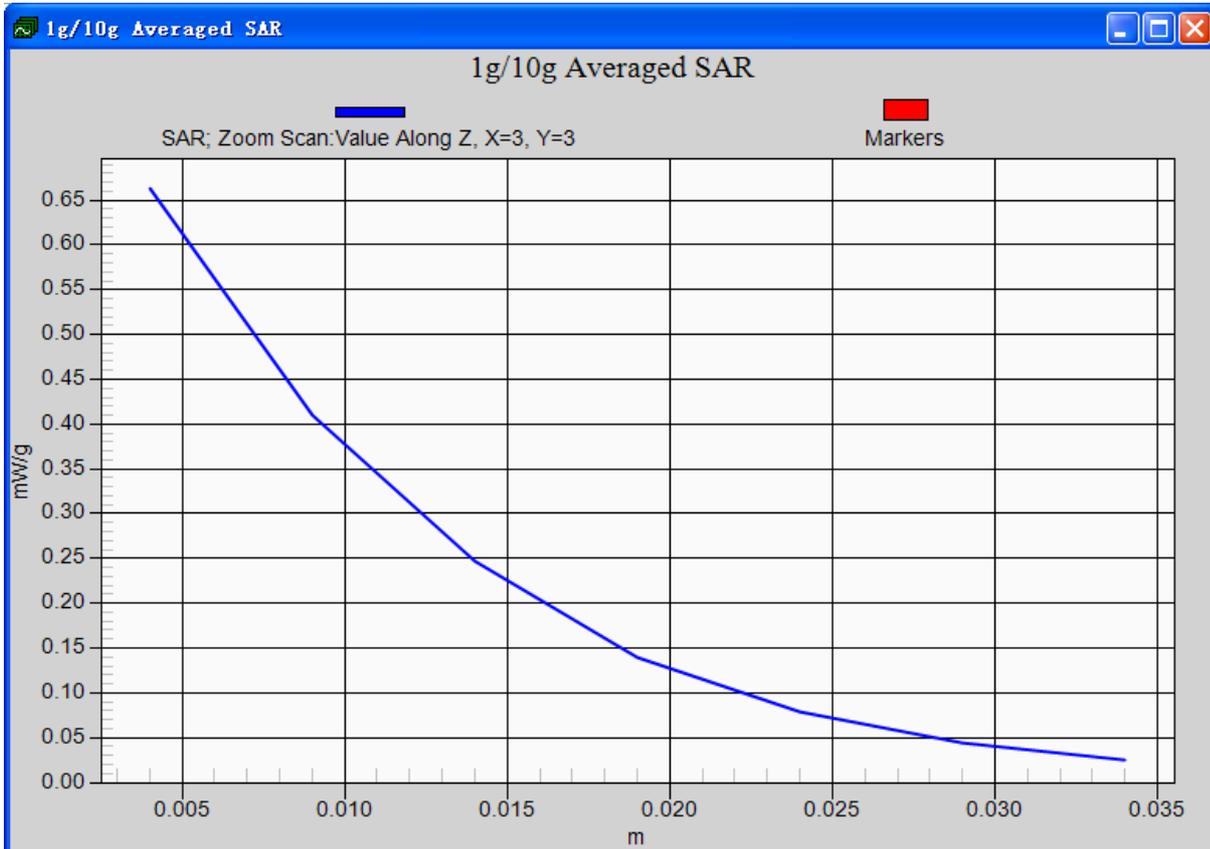
WCDMA1900 Body:
HUAWEI U7520-5/U7520-5
Towards phantom- WCDMA1900 Channel 9400
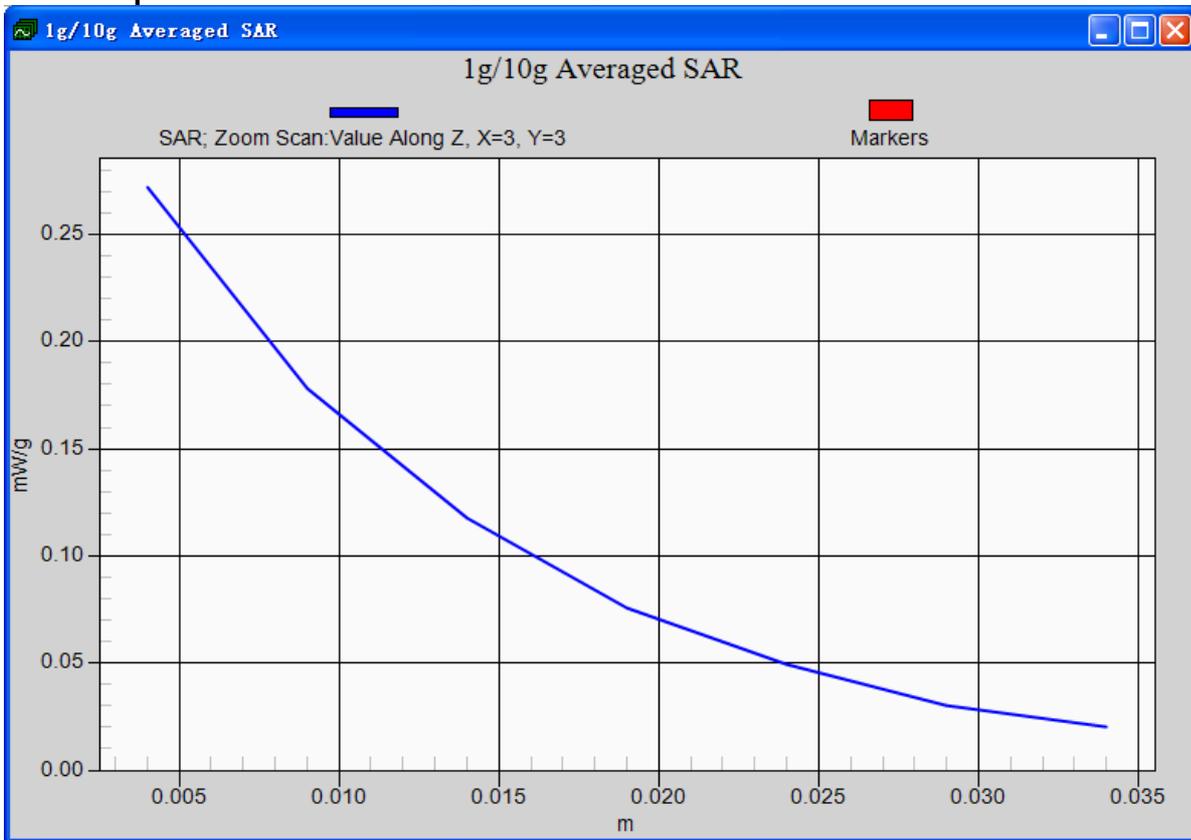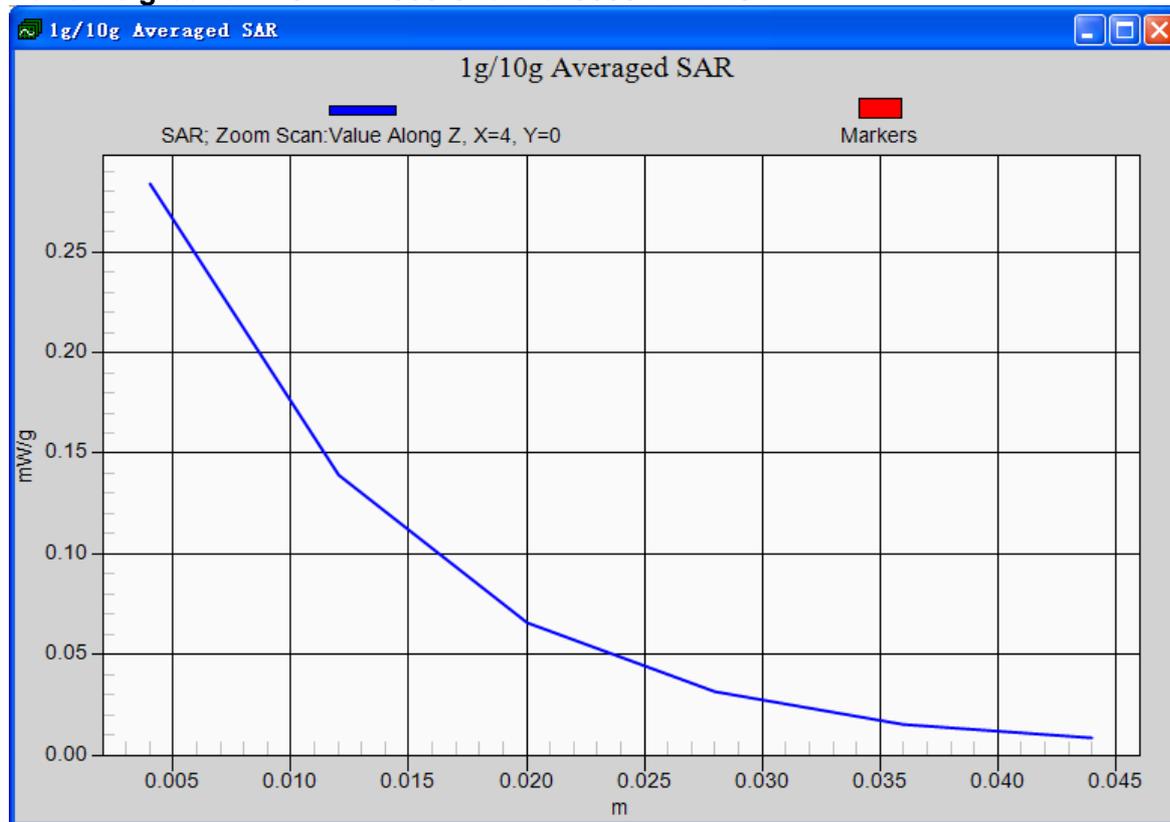

Towards ground- WCDMA1900 Channel 9400
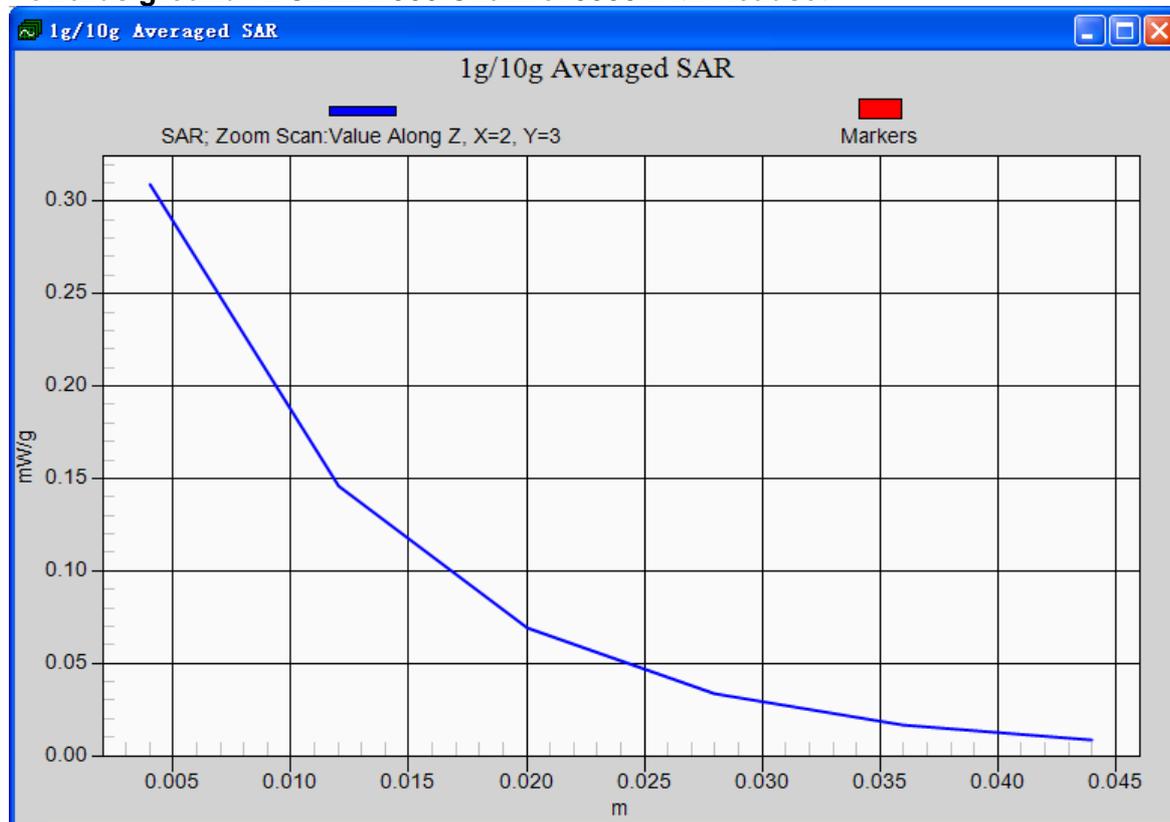
Towards ground- WCDMA1900 Channel 9538

Towards ground- WCDMA1900 Channel 9262

Huawei Technologies Co.,Ltd.
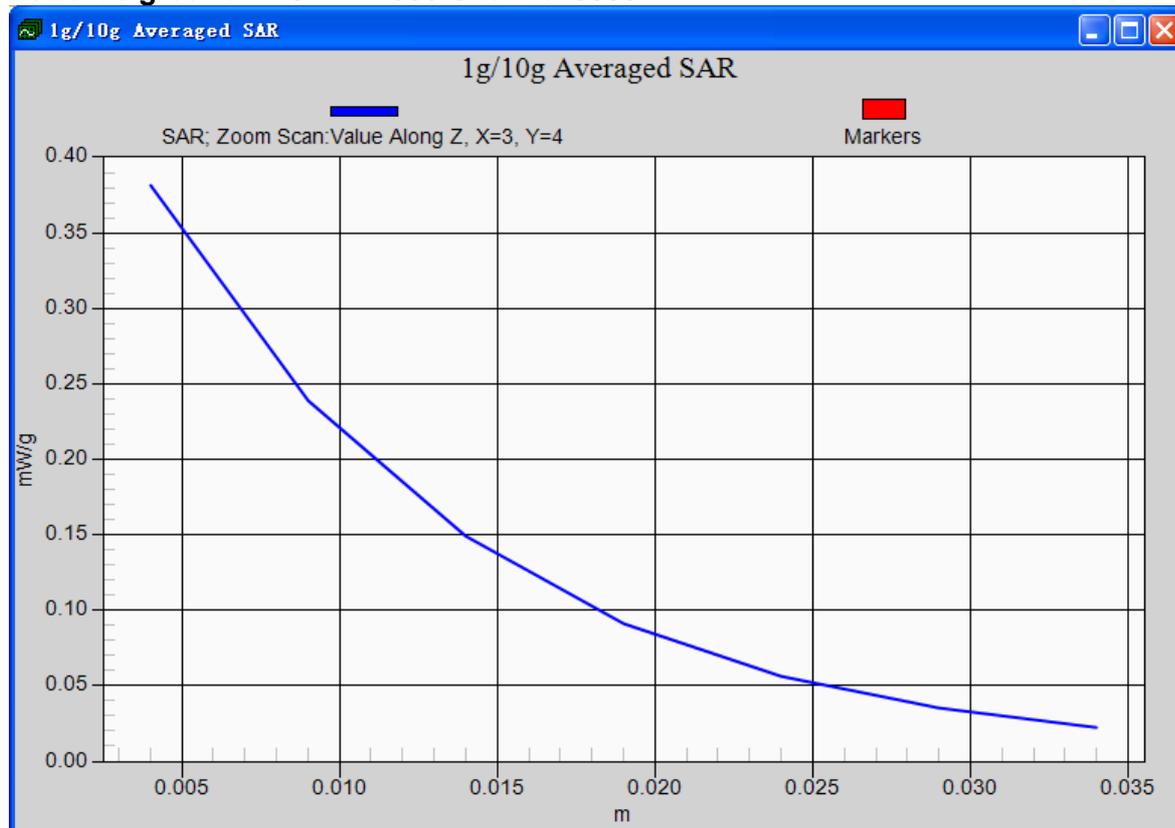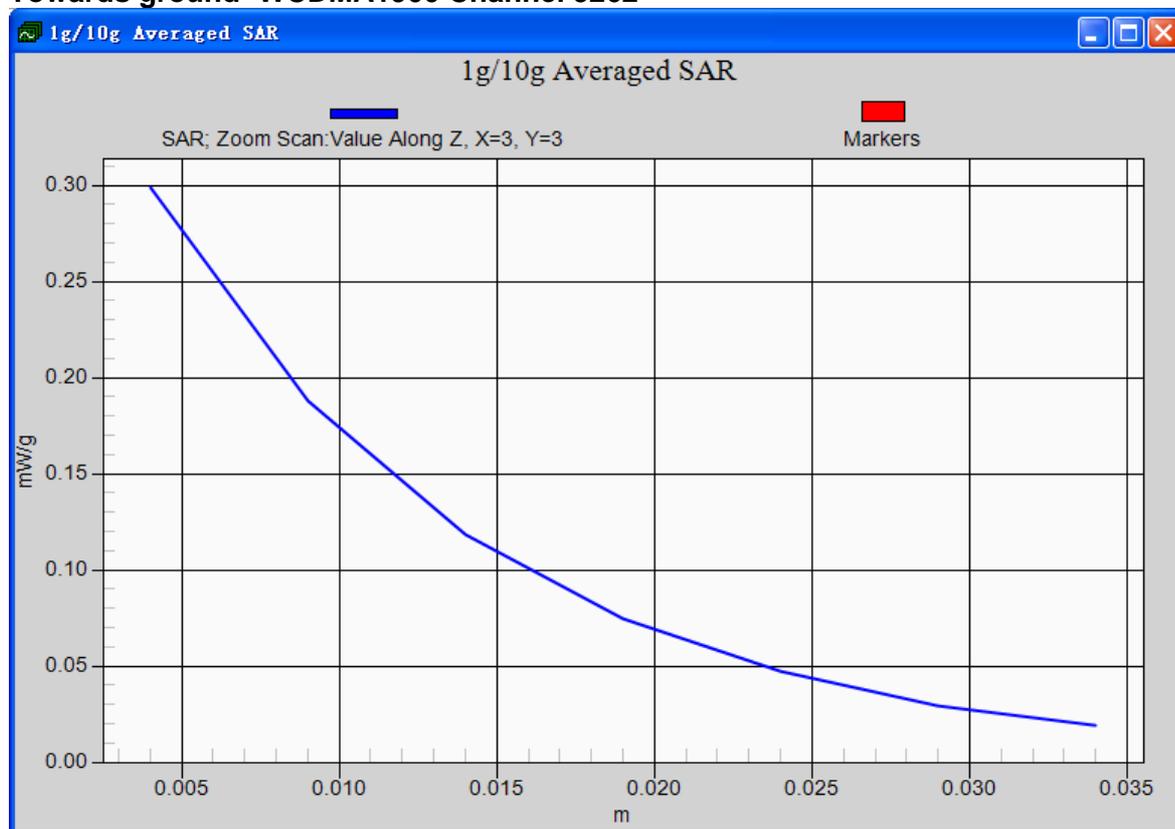
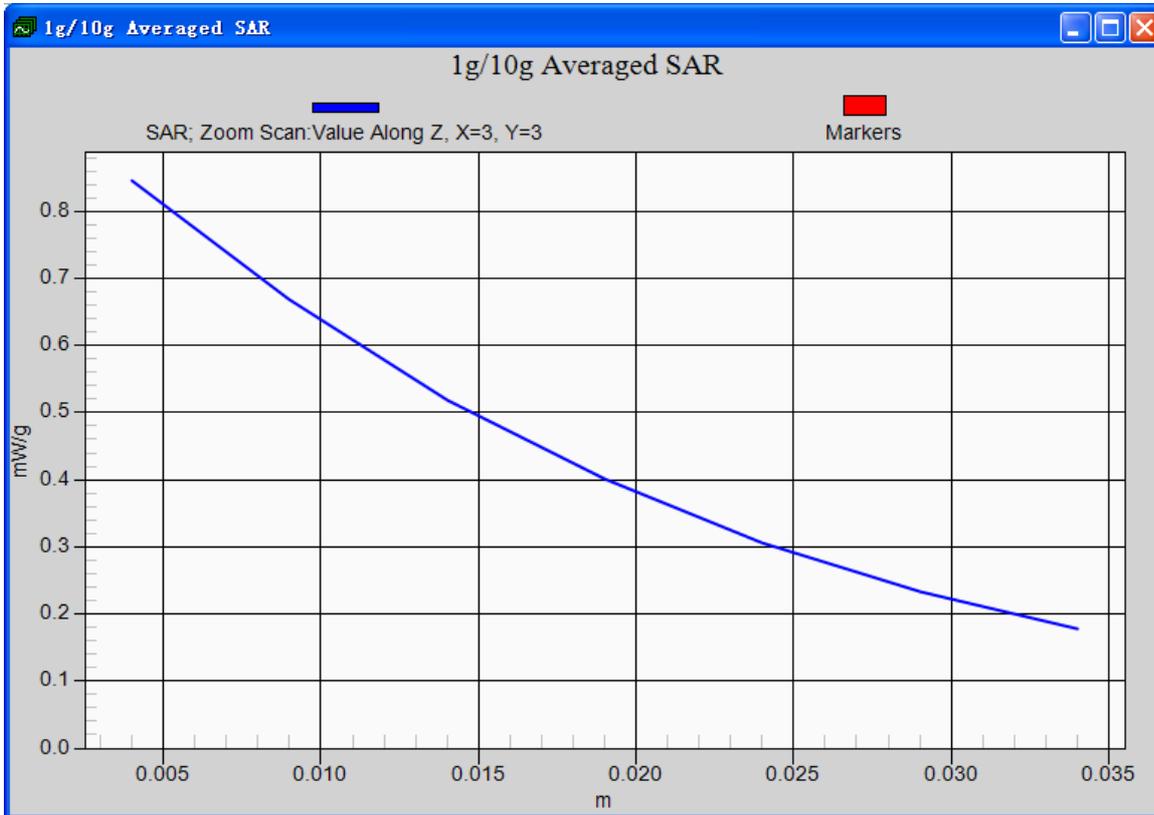**Towards ground- WCDMA1900 Channel 9538 with HSDPA**

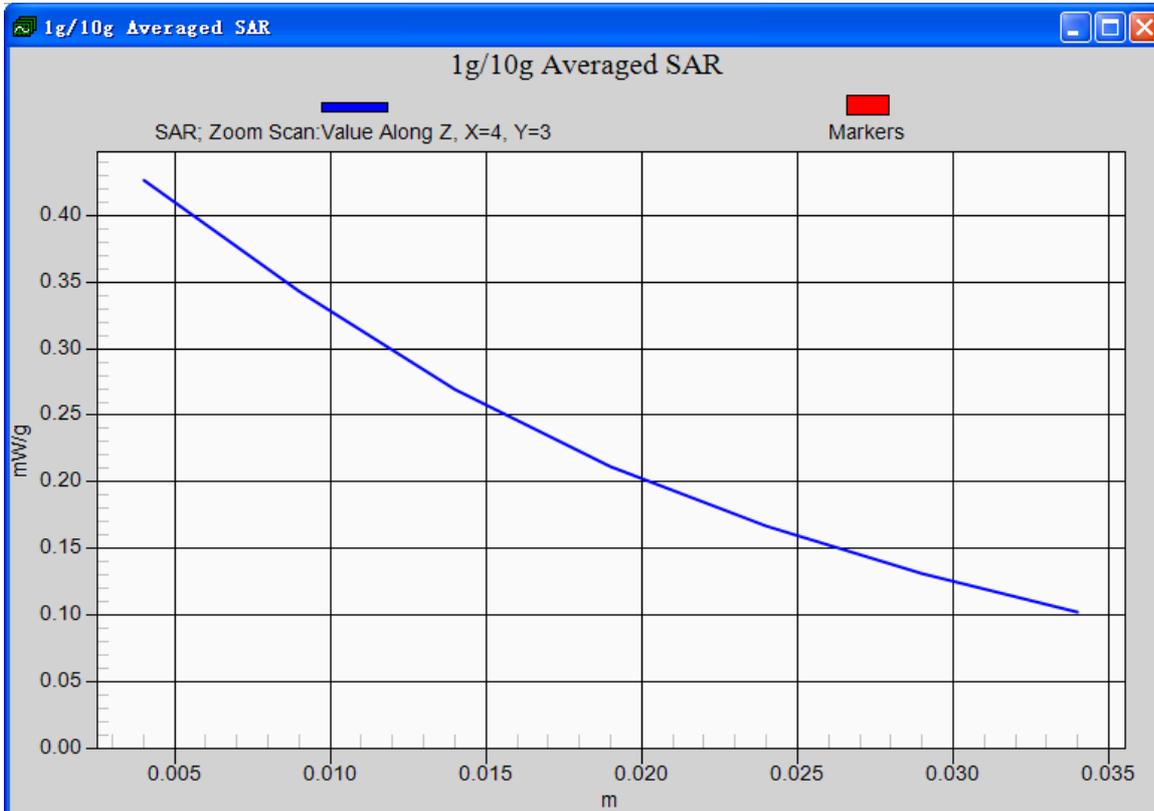**Towards ground- WCDMA1900 Channel 9538 with Headset**
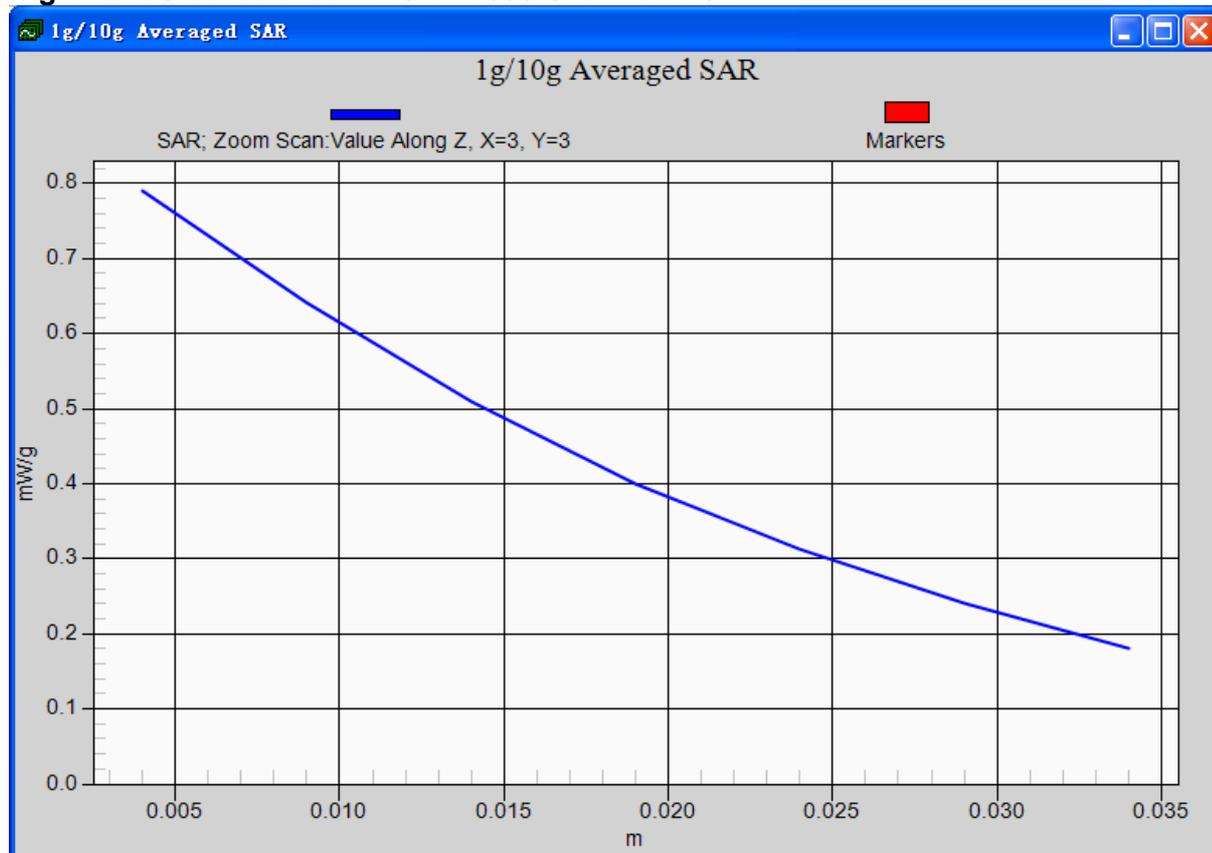
Towards ground- WCDMA1900 Channel 9538 with Bluetooth Headset
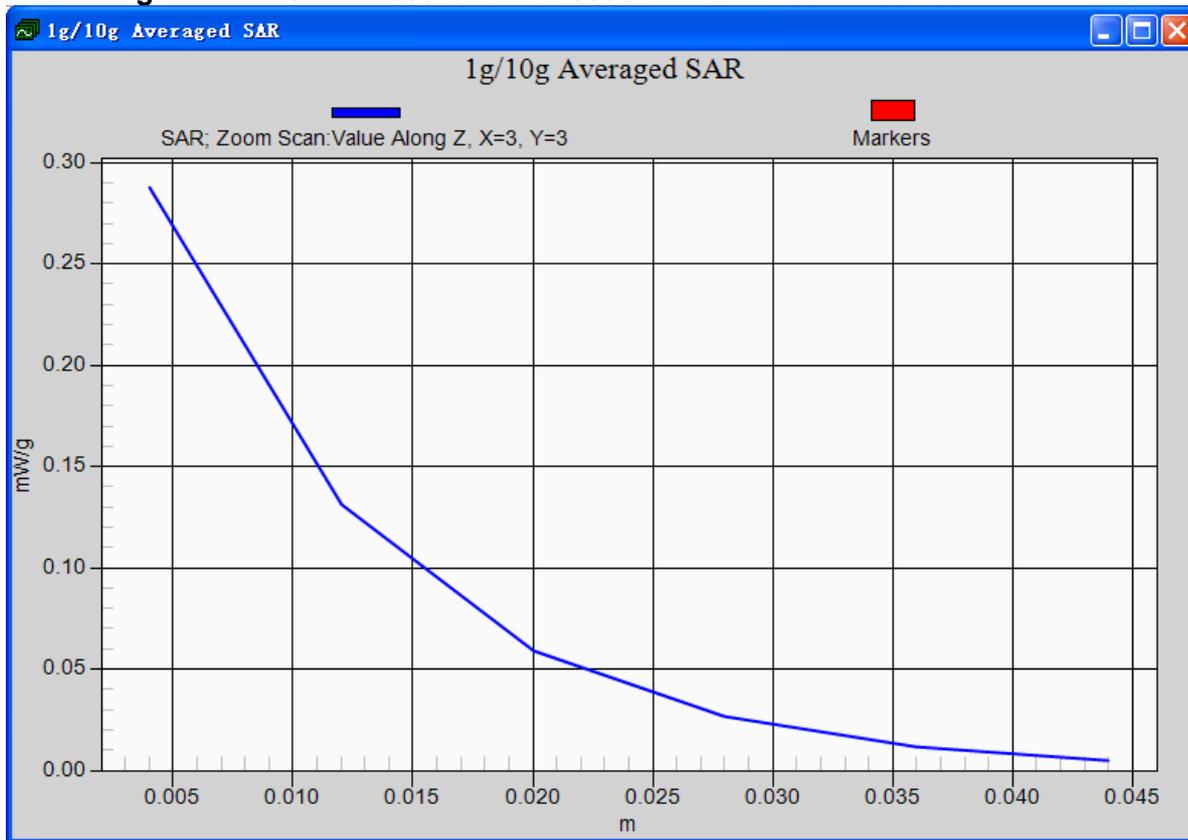
WCDMA850 Head:
HUAWEI U7520-5/U7520-5
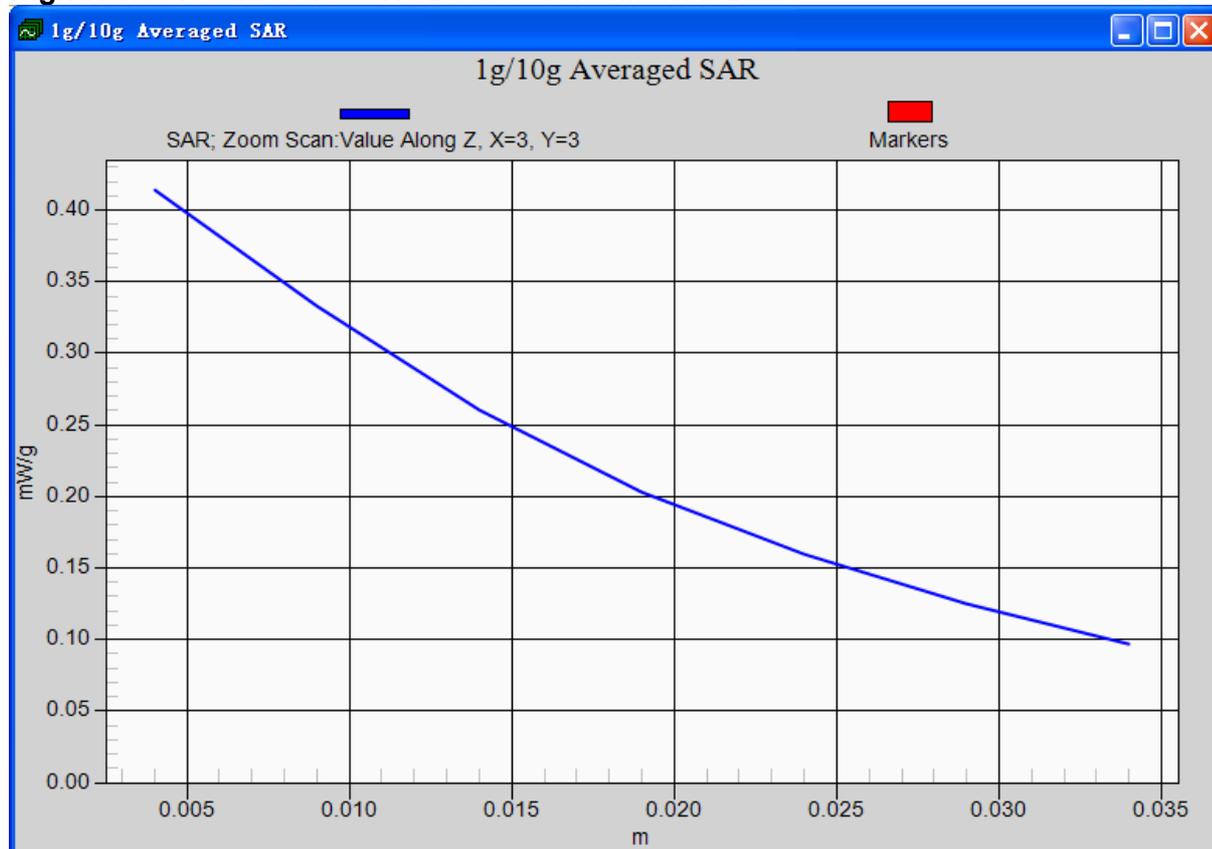**LeftHandSide touched - WCDMA850 Channel 4182**

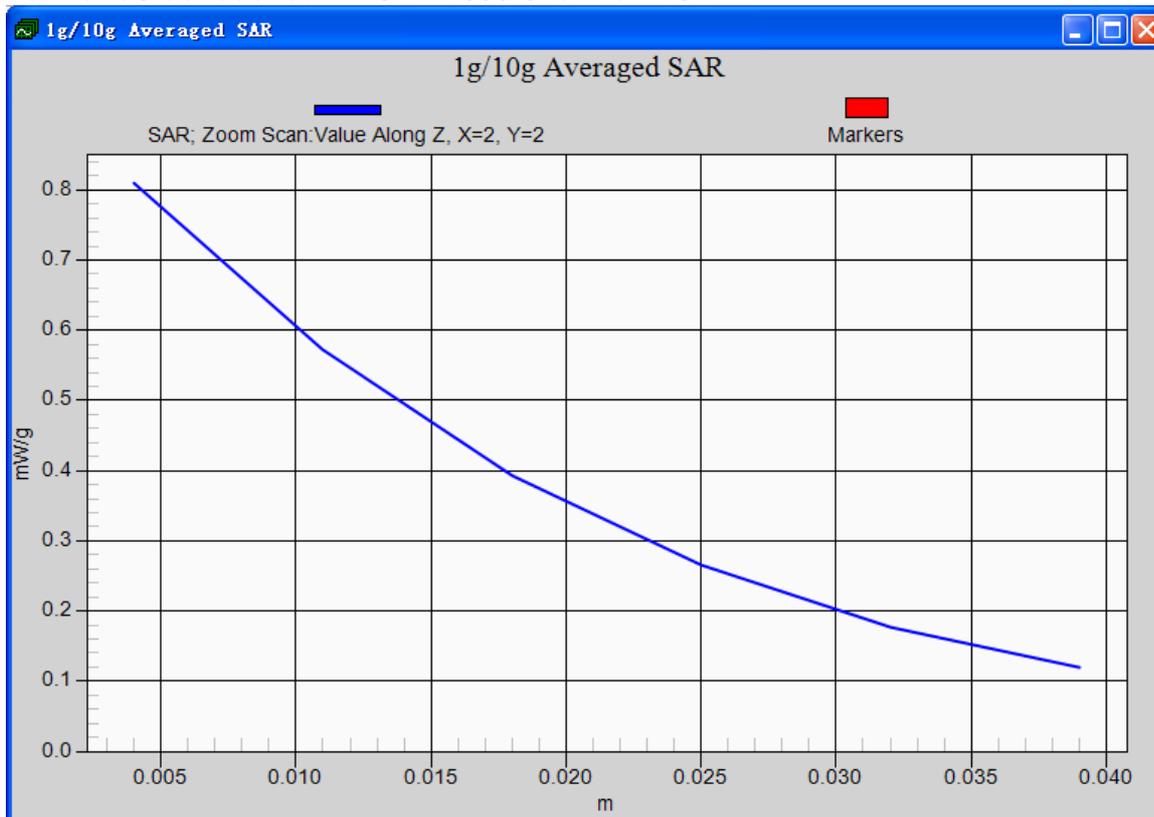**LeftHandSide tilted 15° - WCDMA850 Channel 4182**

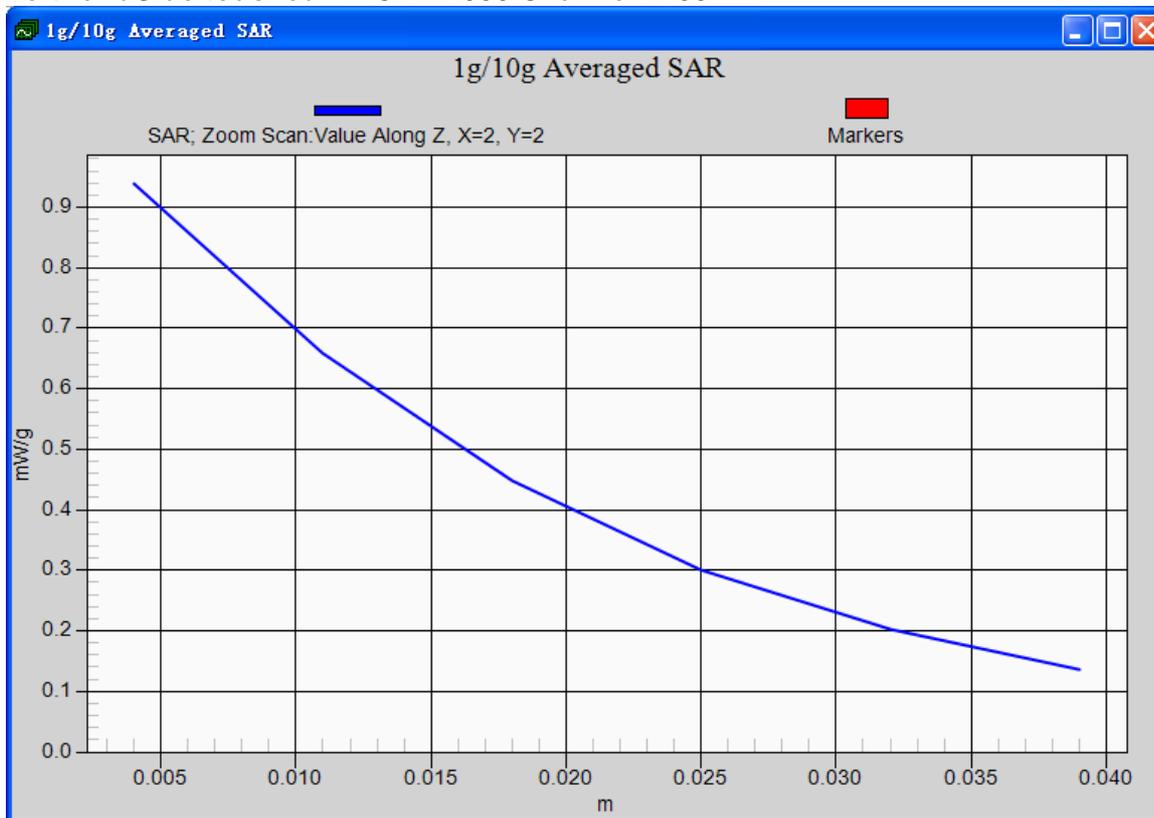**RightHandSide touched - WCDMA850 Channel 4182**

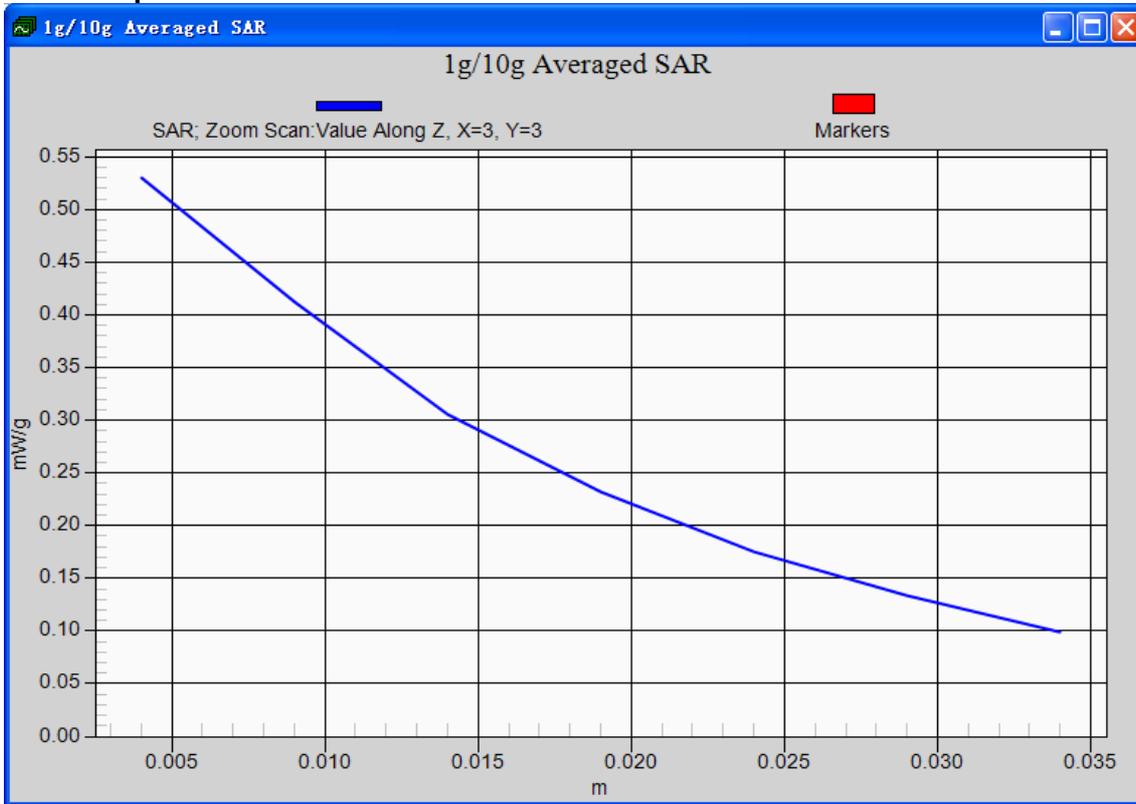

RightHandSide tilted 15° - WCDMA850 Channel 4182
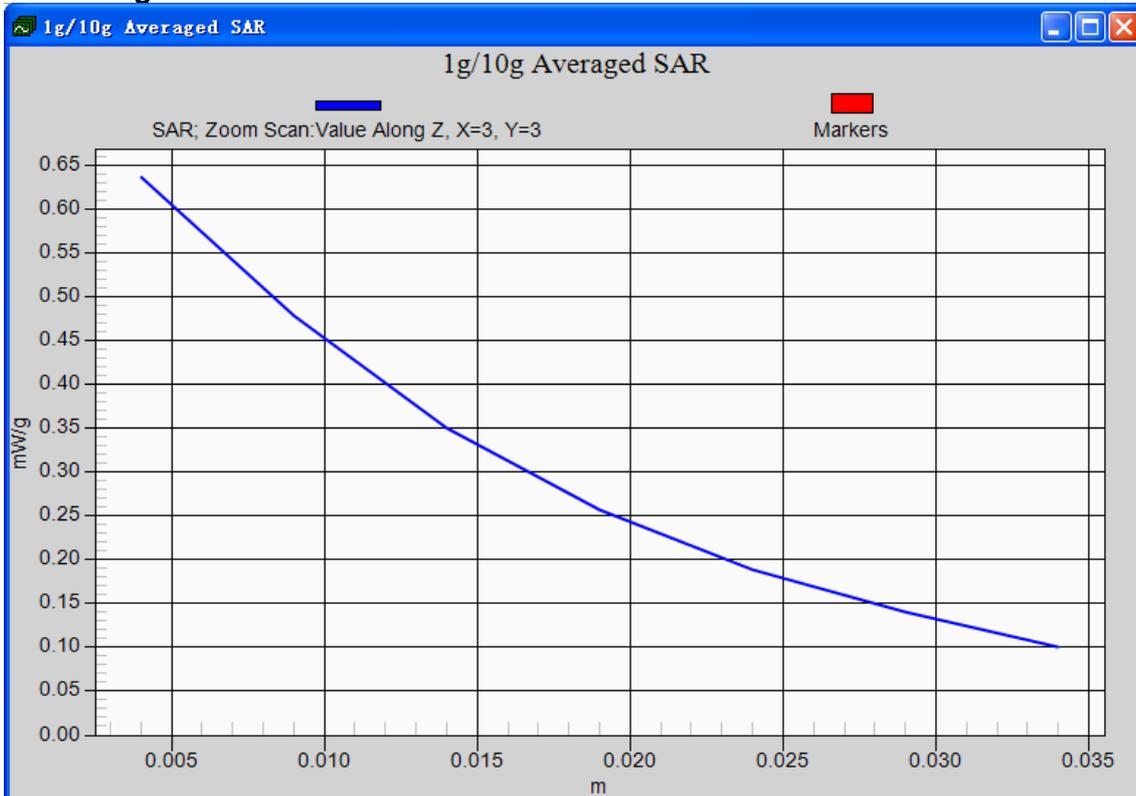
LeftHandSide touched - WCDMA850 Channel 4132
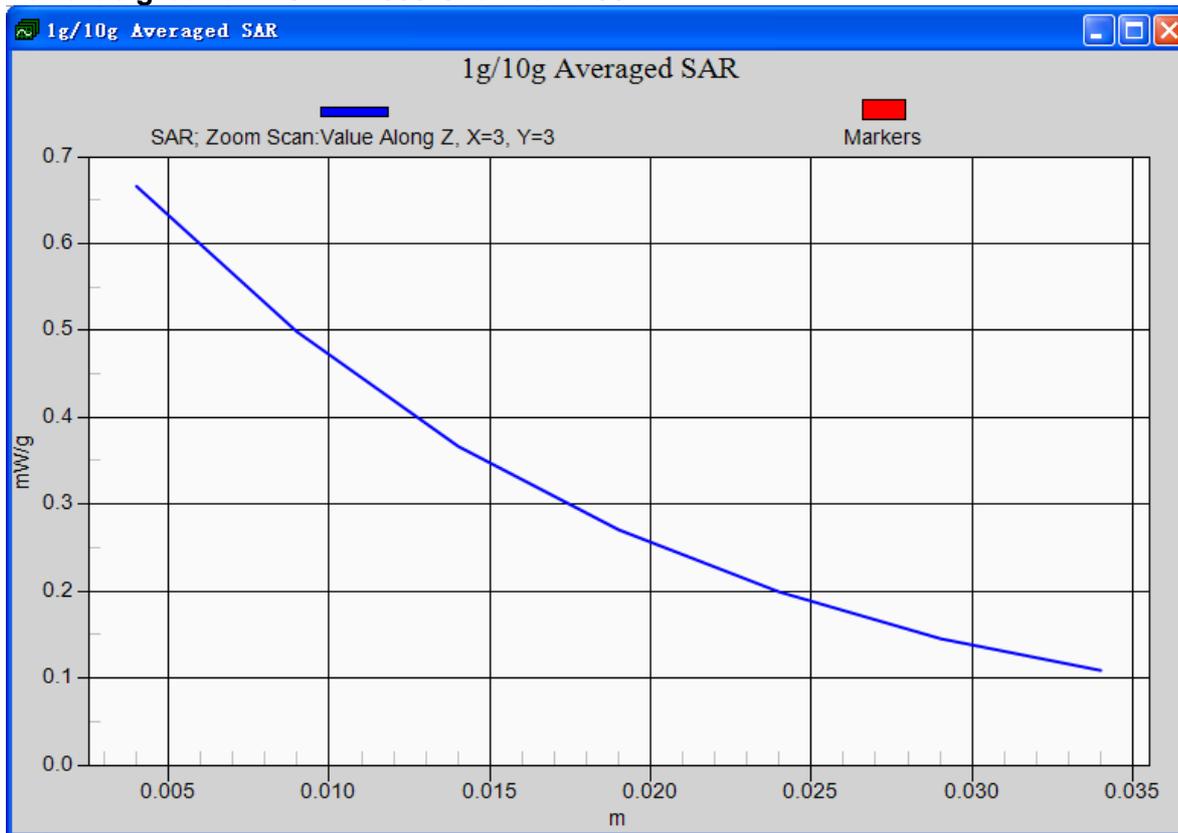

LeftHandSide touched - WCDMA850 Channel 4233

WCDMA850 Body
HUAWEI U7520-5/U7520-5
Towards phantom- WCDMA 850 Channel 4182
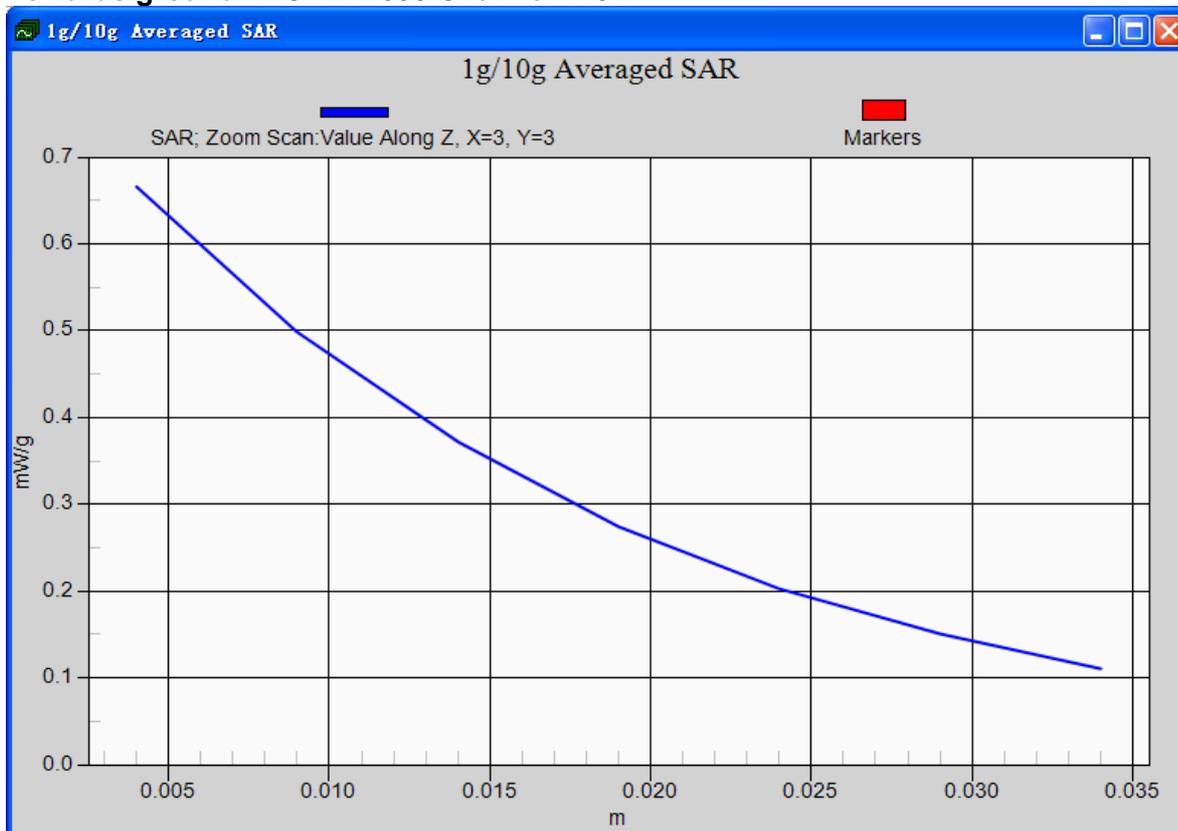

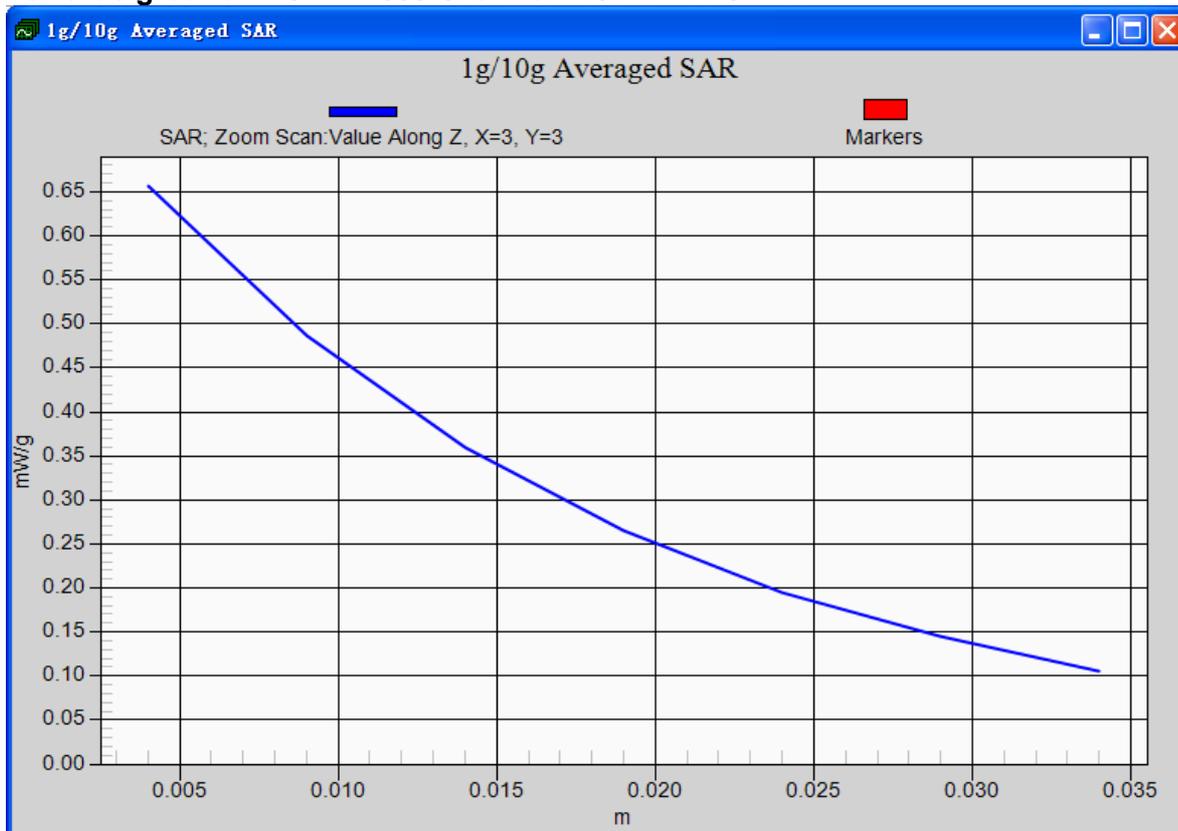**Towards ground- WCDMA 850 Channel 4182**
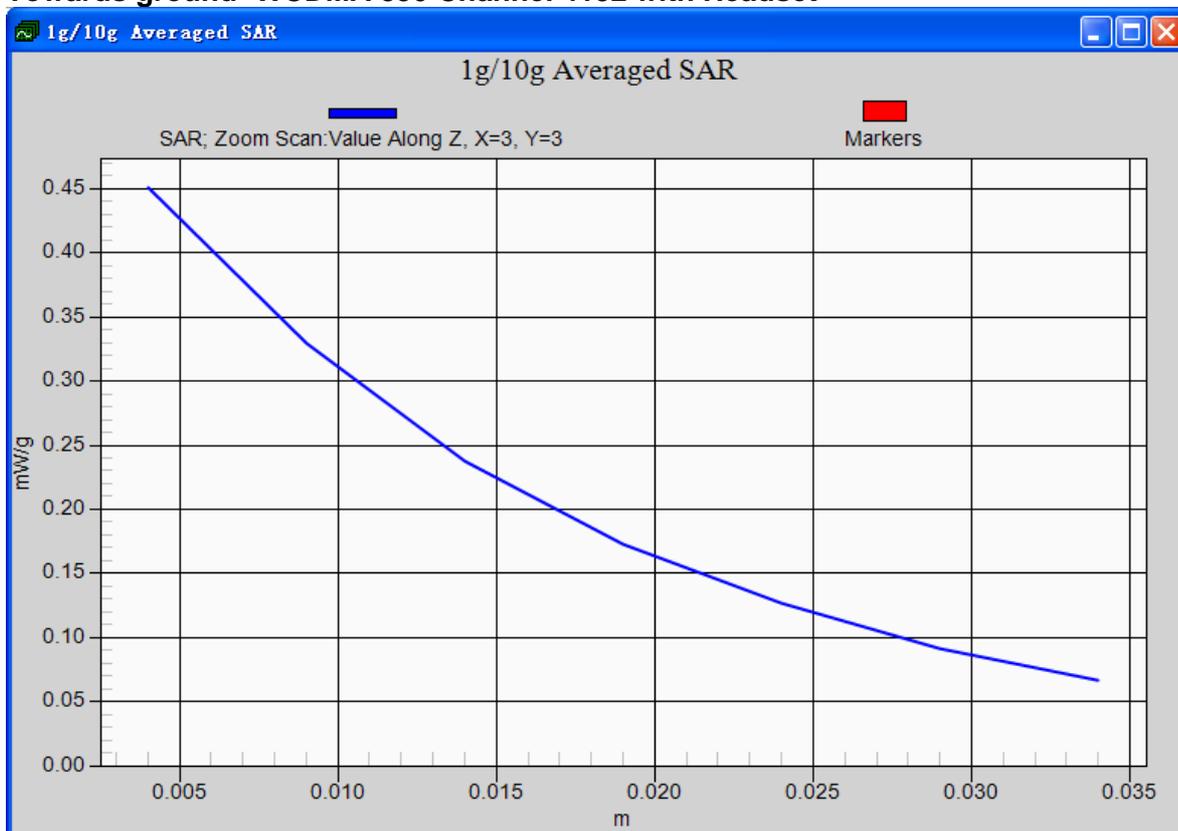
Towards ground- WCDMA 850 Channel 4233

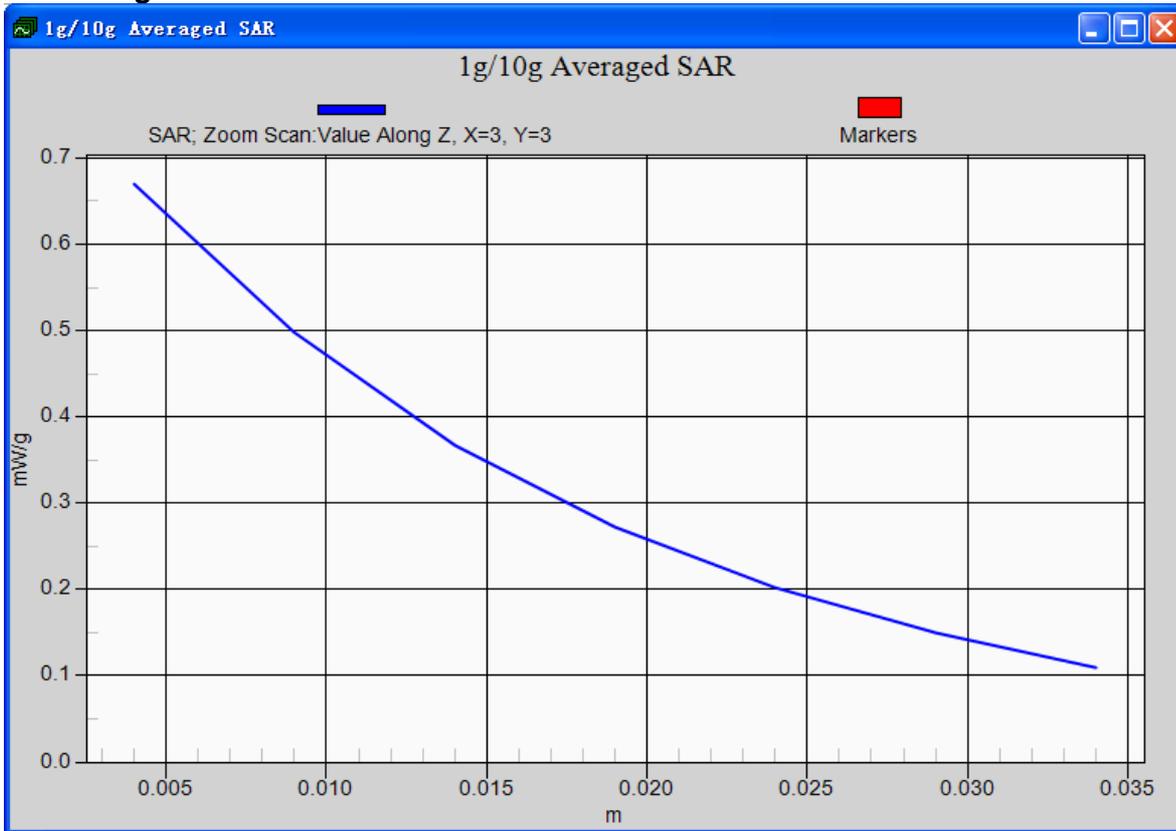**Towards ground- WCDMA 850 Channel 4132**

Towards ground- WCDMA 850 Channel 4132 with HSDPA

Towards ground- WCDMA 850 Channel 4132 with Headset

Towards ground- WCDMA 850 Channel 4132 with Bluetooth Headset

Annex 3   Calibration parameters

Calibration parameters are described in the additional document:

Appendix to test report no. SYBH(Z-SAR) 014102010-2
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