



Accredited testing laboratory

CNAS Registration number: L0310

**Report On SAR Test of
HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth**

M/N: HUAWEI U3205/U3205/PULSO

Test report no. : SYBH(Z-SAR)101092009
Type identification : HUAWEI U3205/U3205/PULSO
FCC-ID : QISU3205
Test specification : IEEE 1528-2003
: ANSI C95.1-1999
: RSS-102 issue 2 (2005)
: OET Bulletin 65 Supplement C
: IEC 62209-2:2008(106/162/CDV)

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1 General Information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The HUAWEI does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of HUAWEI.

1.1.1 Statement of Compliance

The SAR values found for the HUAWEI U3205/U3205/PULSO are below the maximum recommended levels of 1.6 W/Kg as averaged over any 1 g tissue according to the FCC rule §2.1093, the ANSI/IEEE C 95.1:1999, the NCRP Report Number 86 for uncontrolled environment, according to the Health Canada's Safety Code 6 and the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure.

For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions the handset a minimum of 15 mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The measurement together with the test system set-up is described in chapter 2.3 of this test report. A detailed description of the equipment under test can be found in chapter 1.5.

Test engineer:

2009-09-17

Pan Lifang

Date

Name

Signature

Reviewed by:

2009-09-17

Hu Zhongxun

Date

Name

Signature

Approved by:

2009-09-17

Liu Chunlin

Date

Name

Signature



1.2 Testing laboratory

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Country: P.R.China

Telephone: +86-755-28785278
Fax: +86-755-36834474

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Internet: www.huawei.com

State of accreditation: The Test laboratory (area of testing) is accredited according to
ISO/IEC 17025.
CNAS Registration number: L0310

1.3 Details of applicant

Name: HUAWEI TECHNOLOGIES CO., LTD

Street: Huawei Base, Bantian
Town: Longgang District, Shenzhen
Country: China

Contact: Mr. Qiu Wei
Telephone: +86-10-82836236

1.4 Application details

Date of receipt of application: 2009-09-09
Date of receipt of test item: 2009-09-08
Start/Date of test: 2009-09-10
End/Date of test: 2009-09-16

Person(s) present during the test: ---

1.5 Test item

Description of the test item:	HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth
Type identification:	HUAWEI U3205/U3205/PULSO
FCC-ID :	QISU3205
Serial number:	LQ2AA10980700083
Manufacturer name:	Huawei Technologies Co.,Ltd.
Street:	Huawei Base, Bantian
Town:	Longgang District, Shenzhen
Country:	P.R.China

additional information on the DUT:		
device type :	portable device	
IMEI No :	356184030000741	
exposure category:	uncontrolled environment / general population	
test device production information	production unit	
operating mode(s)	GSM, PCS,UMTS/WCDMA ,Bluetooth	
modulation	GMSK,8-PSK,QPSK	
GPRS mobile station class :	B	
GPRS multislot class :	10	voice mode : ---
EGPRS multislot class :	10	voice mode : ---
maximum no. of timeslots in uplink:	2	
HSDPA UE category	6	
operating frequency range(s)	transmitter frequency range	receiver frequency range
GSM850 (tested):	824.2 MHz ~ 848.8 MHz	869.2 MHz ~ 893.8 MHz
PCS 1900 (tested):	1850.2 MHz ~ 1909.8 MHz	1930.2 MHz ~ 1989.8 MHz
UMTS/WCDMA FDD V (tested):	826.4 MHz ~ 846.6 MHz	871.4 MHz ~ 891.6 MHz
UMTS/WCDMA FDD II (tested):	1852.4 MHz ~ 1907.6 MHz	1932.4 MHz ~ 1987.6 MHz
Power class :	4, tested with power level 5 (850 MHz band)	
	1, tested with power level 0 (1900 MHz band)	
	3, tested with maximum output power (850 MHz band)	
	3, tested with maximum output power (1900 MHz band)	
measured peak output power (conducted):	850 MHz band:33.4dBm (GMSK)	
	1900 MHz band: 30.47dBm (GMSK)	
	850 MHz band:23.64dBm (QPSK)	
	1900 MHz band:23.07dBm (QPSK)	
test channels (low-mid-high) :	128-190-251 (850 MHz band)	
	512-661-810 (1900 MHz band)	
	4132-4183-4233(850 MHz band)	
	9262-9400-9538(1900 MHz band)	
hardware version :	HD1U325M VER.B	
software version :	U3205V100R001VENC32B720	
antenna type :	Integrated antenna	
accessories/body-worn configurations:	Stereo headset	
battery options :	Huawei Battery HBU86 Li-Polymer 3.7V 930mAh S/N: FMT7A1700452Y	
charger options :	Huawei AC/DC Adapter Model: HS-050040U6, S/N: XQH961719159	

1.6 Test specification(s)

Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01)

IEEE 1528-2003 (April 21, 2003): Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

RSS-102: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands (Issue 2 of November 2005))

Canada's Safety Code 6: Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz (99-EHD-237)

IEEE Std C95.3 – 1991, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave.

IEEE Std C95.1 – 1999, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.

IEC 62209-2:2008(106/162/CDV), Human Exposure to Radio Frequency Fields from Handheld and Body-Mounted Wireless Communication Devices – Human models, Instrumentation, and Procedures Part 2: Procedure to determine the specific absorption rate (SAR) for mobile wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)

1.6.1 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Table 1: RF exposure limits

The limit applied in this test report is shown in **bold** letters

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.	<input checked="" type="checkbox"/>
The deviations as specified in 2.5 were ascertained in the course of the tests performed.	<input type="checkbox"/>

The maximum SAR of HUAWEI U3205 head position is 0.622 W/kg.
The maximum SAR of HUAWEI U3205 body position is 0.891 W/kg

2.2 Test environment

General Environment conditions in the test area are as follows:

Ambient temperature: 20°C – 24°C
Tissue simulating liquid: 20°C – 24°C
Humidity: 30% – 70%

Exact temperature values for each test are shown in the table(s) under 2.5. and/or on the measurement plots.

2.3 Measurement and test set-up

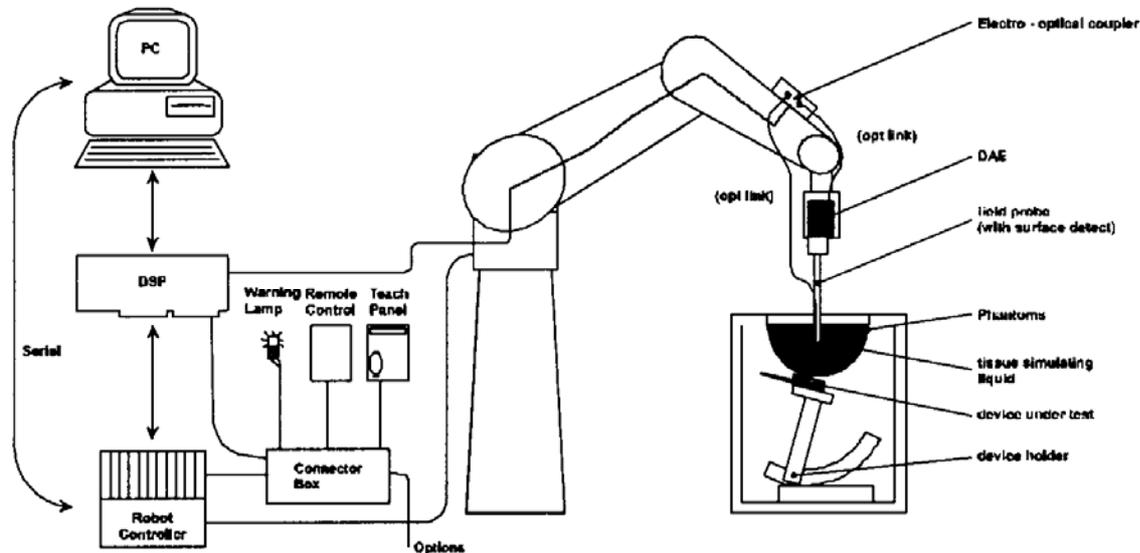
The measurement system is described in chapter 2.4.

The test setup for the system validation can be found in chapter 2.4.14.

A description of positioning and test signal control can be found in chapter 2.5 together with the test results.

2.4 Measurement system

2.4.1 System Description



The DASYS5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- A unit to operate the optical surface detector which is connected to the EOC.
- The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASYS5 measurement server.
- The DASYS5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows XP.
- DASYS5 software and SEMCAD data evaluation software.
- Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- The generic twin phantom enabling the testing of left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- System validation dipoles allowing to validate the proper functioning of the system.

2.4.2 Test environment

The DASY5 measurement system is placed at the head end of a room with dimensions: 4.5 x 4 x 3 m³, the SAM phantom is placed in a distance of 1.3 m from the side walls and 1.1m from the rear wall.

Picture 1 of the photo documentation shows a complete view of the test environment. The system allows the measurement of SAR values larger than 0.005 mW/g.

2.4.3 Probe description

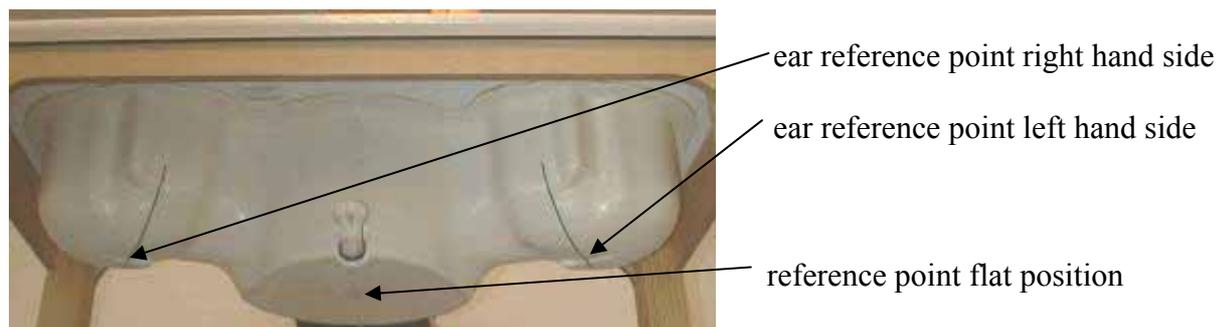
Isotropic E-Field Probe EX3DV4 for Dosimetric Measurements

Technical data according to manufacturer information	
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether)
Calibration	In air from 10 MHz to 2.5 GHz In head tissue simulating liquid (HSL) at 900 (800-1000) MHz and 1.8 GHz (1700-1910 MHz) (accuracy $\pm 11\%$; k=2) Calibration for other liquids and frequencies upon request
Frequency	10 MHz to 3 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Optical Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces (EX3DV4 only)
Dimensions	Overall length: 337 mm Tip length: 9 mm Body diameter: 10 mm Tip diameter: 2.5 mm Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)

2.4.4 Phantom description

The used SAM Phantom meets the requirements specified in Edition 01-01 of Supplement C to OET Bulletin 65 for Specific Absorption Rate (SAR) measurements.

The phantom consists of a fibreglass shell integrated in a wooden table. It allows left-hand and right-hand head as well as body-worn measurements with a maximum liquid depth of 18 cm in head position and 22 cm in planar position (body measurements). The thickness of the Phantom shell is 2 mm +/- 0.1 mm.



2.4.5 Device holder description

The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used.



Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values.

Therefore those devices are normally only tested at the flat part of the SAM.

2.4.6 Scanning procedure

The DASY5 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

- The „reference“ and „drift“ measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT's output power and should vary max. +/- 5 %.
- The „surface check“ measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)
- The „area scan“ measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension. If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation. Results of this coarse scan are shown in annex 2.
- A „7x7x7 zoom scan“ measures the field in a volume around the 2D peak SAR value acquired in the previous „coarse“ scan. This is a fine 7x7 grid where the robot additionally moves the probe in 7 steps along the z-axis away from the bottom of the Phantom. Grid spacing for the cube measurement is 5 mm in x and y-direction and 5 mm in z-direction. DASY5 is also able to perform repeated zoom scans if more than 1 peak is found during area scan. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in annex 2. Test results relevant for the specified standard (see chapter 1.6.) are shown in table form in chapter 2.5.
- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2mm steps. This measurement shows the continuity of the liquid and can - depending in the field strength – also show the liquid depth. A z-axis scan of the measurement with maximum SAR value is shown in annex 2.

2.4.7 Spatial Peak SAR Evaluation

The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The basis of the evaluation are the SAR values measured at the points of the fine cube grid consisting of 7 x 7 x 7 points. The algorithm that finds the maximal averaged volume is separated into three different stages.

- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting 'Graph Evaluated'.
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR - values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighboring volumes are evaluated until no neighboring volume with a higher average value is found.

Extrapolation

The extrapolation is based on a least square algorithm [W. Gander, Computermathematik, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computermathematik, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].

Volume Averaging

At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

Advanced Extrapolation

DASY5 uses the advanced extrapolation option which is able to compensate boundary effects on E-field probes.

2.4.8 Data Storage and Evaluation

Data Storage

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Norm _i , a _{i0} , a _{i1} , a _{i2}
	- Conversion factor	ConvF _i
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY5 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf/dcp_i$$

with V_i = compensated signal of channel i (i = x, y, z)
 U_i = input signal of channel i (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes: $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$

with V_i = compensated signal of channel i (i = x, y, z)
 $Norm_i$ = sensor sensitivity of channel i (i = x, y, z)
 [mV/(V/m)²] for E-field Probes
 $ConvF$ = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²
 E_{tot} = total electric field strength in V/m
 H_{tot} = total magnetic field strength in A/m

2.4.9 Test equipment utilized

This table gives a complete overview of the SAR measurement equipment

Devices used during the test described in chapter 2.5. are marked ☒

	Manufacturer	Device	Type	Serial number	Date of last calibration)*
<input type="checkbox"/>	Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	3641	2009-05-14
<input checked="" type="checkbox"/>	Schmid & Partner Engineering AG	Dosimetric E-Field Probe	ES3DV3	3168	2008-12-22
<input checked="" type="checkbox"/>	Schmid & Partner Engineering AG	835 MHz System Validation Dipole	D835V2	4d095	2009-05-25
<input type="checkbox"/>	Schmid & Partner Engineering AG	900 MHz System Validation Dipole	D900V2	1d063	2009-05-26
<input type="checkbox"/>	Schmid & Partner Engineering AG	1800 MHz System Validation Dipole	D1800V2	2d157	2009-05-27
<input checked="" type="checkbox"/>	Schmid & Partner Engineering AG	1900 MHz System Validation Dipole	D1900V2	5d091	2009-05-28
<input type="checkbox"/>	Schmid & Partner Engineering AG	2000 MHz System Validation Dipole	D2000V2	1036	2009-05-29
<input type="checkbox"/>	Schmid & Partner Engineering AG	Data acquisition electronics	DAE4	851	2009-05-14
<input checked="" type="checkbox"/>	Schmid & Partner Engineering AG	Data acquisition electronics	DAE4	852	2008-12-22
<input checked="" type="checkbox"/>	Schmid & Partner Engineering AG	Software	DASY 5 V5.0	N/A	N/A
<input checked="" type="checkbox"/>	Schmid & Partner Engineering AG	Twin Phantom	SAM1	TP-1475	N/A
<input checked="" type="checkbox"/>	Schmid & Partner Engineering AG	Twin Phantom	SAM2	TP-1474	N/A
<input checked="" type="checkbox"/>	Rohde & Schwarz	Universal Radio Communication Tester	CMU 200	111379	2008-10-28
<input checked="" type="checkbox"/>	Agilent)*	Network Analyser 300 kHz to 8.5 GHz	E5071B	MY42404956	2009-03-27
<input checked="" type="checkbox"/>	Agilent	Dielectric Probe Kit	85070E	2484	N/A
<input checked="" type="checkbox"/>	Agilent	Signal Generator	N5181A	MY47420989	2009-03-25
<input checked="" type="checkbox"/>	MINI-CIRCUITS	Amplifier	ZHL-42W	QA0746001	N/A
<input checked="" type="checkbox"/>	Agilent	Power Meter	E4417A	MY45101339	2009-05-24
<input checked="" type="checkbox"/>	Agilent	Power Meter Sensor	E9321A	MY44420359	2009-05-24

)* : Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

2.4.10 Tissue simulating liquids: dielectric properties

The following materials are used for producing the tissue-equivalent materials.

(liquids used for tests described in chapter 2.5. are marked with ☒) :

Ingredients (% of weight)	Frequency (MHz)					
	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input type="checkbox"/> 2450
frequency band	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input type="checkbox"/> 2450
Tissue Type	Head	Head	Head	Head	Head	Head
Water	38.56	41.45	40.92	52.64	54.9	62.7
Salt (NaCl)	3.95	1.45	1.48	0.36	0.18	0.5
Sugar	56.32	56.0	56.5	0.0	0.0	0.0
HEC	0.98	1.0	1.0	0.0	0.0	0.0
Bactericide	0.19	0.1	0.1	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	36.8
DGBE	0.0	0.0	0.0	47.0	44.92	0.0

Table 2: Head tissue dielectric properties

Ingredients (% of weight)	Frequency (MHz)					
	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input type="checkbox"/> 2450
frequency band	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input type="checkbox"/> 2450
Tissue Type	Body	Body	Body	Body	Body	Body
Water	51.16	52.4	56.0	69.91	69.91	73.2
Salt (NaCl)	1.49	1.40	0.76	0.13	0.13	0.04
Sugar	46.78	45.0	41.76	0.0	0.0	0.0
HEC	0.52	1.0	1.21	0.0	0.0	0.0
Bactericide	0.05	0.1	0.27	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	0.0	29.96	29.96	26.7

Table 3: Body tissue dielectric properties

Salt: 99+% Pure Sodium Chloride

Sugar: 98+% Pure Sucrose

Water: De-ionized, 16MΩ+ resistivity

HEC: Hydroxyethyl Cellulose

DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100(ultra pure): Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl]ether

Note : Due to their availability body tissue simulating liquids as defined by FCC OET Bulletin 65 Supplement C are generally used for body worn SAR testing according to European standards.

2.4.11 Tissue simulating liquids: parameters

Used Target Frequency [MHz]	Target Head Tissue		Measured Head Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
835	41.5	0.90	43.5	0.913	2009-09-10
1900	40.0	1.40	39.2	1.35	2009-09-14

Table 4: Parameter of the head tissue simulating liquid

Used Target Frequency [MHz]	Target Body Tissue		Measured Body Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
835	55.2	0.97	54.2	0.988	2009-09-11
1900	53.3	1.52	51.6	1.49	2009-09-15

Table 5: Parameter of the body tissue simulating liquid

Note: The dielectric properties have been measured using the contact probe method at 22°C.

2.4.12 Measurement uncertainty evaluation for SAR test

The overall combined measurement uncertainty of the measurement system is $\pm 10.7\%$ ($K=1$).

The expanded uncertainty ($k=2$) is assessed to be $\pm 21.4\%$

This measurement uncertainty budget is suggested by IEEE P1528 and determined by Schmid & Partner Engineering AG. The breakdown of the individual uncertainties is as follows:

Error Sources	Uncertainty Value	Probability Distribution	Divisor	c_i 1g	c_i 10g	Standard Uncertainty 1g	Standard Uncertainty 10g	v_i^2 or v_{eff}
Measurement System								
Probe calibration	$\pm 5.9\%$	Normal	1	1	1	$\pm 5.9\%$	$\pm 5.9\%$	∞
Axial isotropy	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	0.7	0.7	$\pm 1.9\%$	$\pm 1.9\%$	∞
Hemispherical isotropy	$\pm 9.6\%$	Rectangular	$\sqrt{3}$	0.7	0.7	$\pm 3.9\%$	$\pm 3.9\%$	∞
Spatial resolution	$\pm 0.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.0\%$	$\pm 0.0\%$	∞
Boundary effects	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Probe linearity	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$	∞
System detection limits	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Readout electronics	$\pm 0.3\%$	Normal	1	1	1	$\pm 0.3\%$	$\pm 0.3\%$	∞
Response time	$\pm 0.8\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.5\%$	$\pm 0.5\%$	∞
Integration time	$\pm 2.6\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.5\%$	$\pm 1.5\%$	∞
RF ambient conditions	$\pm 3.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Probe positioner	$\pm 0.4\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.2\%$	$\pm 0.2\%$	∞
Probe positioning	$\pm 2.9\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Max. SAR evaluation	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Test Sample Related								
Device positioning	$\pm 2.9\%$	Normal	1	1	1	$\pm 2.9\%$	$\pm 2.9\%$	145
Device holder uncertainty	$\pm 3.6\%$	Normal	1	1	1	$\pm 3.6\%$	$\pm 3.6\%$	5
Power drift	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.9\%$	$\pm 2.9\%$	∞
Phantom and Set-up								
Phantom uncertainty	$\pm 4.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.3\%$	$\pm 2.3\%$	∞
Liquid conductivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.64	0.43	$\pm 1.8\%$	$\pm 1.2\%$	∞
Liquid conductivity (meas.)	$\pm 2.5\%$	Normal	1	0.64	0.43	$\pm 1.6\%$	$\pm 1.1\%$	∞
Liquid permittivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.6	0.49	$\pm 1.7\%$	$\pm 1.4\%$	∞
Liquid permittivity (meas.)	$\pm 2.5\%$	Normal	1	0.6	0.49	$\pm 1.5\%$	$\pm 1.2\%$	∞
Combined Uncertainty						$\pm 10.9\%$	$\pm 10.7\%$	387
Expanded Std. Uncertainty						$\pm 21.9\%$	$\pm 21.4\%$	

Table 6: Measurement uncertainties

2.4.13 Measurement uncertainty evaluation for system validation

The overall combined measurement uncertainty of the measurement system is $\pm 9.2\%$ ($K=1$).

The expanded uncertainty ($k=2$) is assessed to be $\pm 18.4\%$

This measurement uncertainty budget is suggested by IEEE P1528 and determined by Schmid & Partner Engineering AG. The breakdown of the individual uncertainties is as follows:

Error Sources	Uncertainty Value	Probability Distribution	Divisor	c_i 1g	c_i 10g	Standard Uncertainty 1g	Standard Uncertainty 10g	v_i^2 or v_{eff}
Measurement System								
Probe calibration	$\pm 5.9\%$	Normal	1	1	1	$\pm 5.9\%$	$\pm 5.9\%$	∞
Axial isotropy	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$	∞
Hemispherical isotropy	$\pm 9.6\%$	Rectangular	$\sqrt{3}$	0.7	0.7	$\pm 0.0\%$	$\pm 0.0\%$	∞
Boundary effects	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Probe linearity	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$	∞
System detection limits	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Readout electronics	$\pm 0.3\%$	Normal	1	1	1	$\pm 0.3\%$	$\pm 0.3\%$	∞
Response time	$\pm 0.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.0\%$	$\pm 0.0\%$	∞
Integration time	$\pm 0.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.0\%$	$\pm 0.0\%$	∞
RF ambient conditions	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Probe positioner	$\pm 0.4\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.2\%$	$\pm 0.2\%$	∞
Probe positioning	$\pm 2.9\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Max. SAR evaluation	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Dipole								
Deviation of experimental dipole	$\pm 5.5\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 3.2\%$	$\pm 3.2\%$	∞
Dipole axis to liquid distance	$\pm 2.0\%$	Rectangular	1	1	1	$\pm 1.2\%$	$\pm 1.2\%$	∞
Power drift	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$	∞
Phantom and Set-up								
Phantom uncertainty	$\pm 4.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.3\%$	$\pm 2.3\%$	∞
Liquid conductivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.64	0.43	$\pm 1.8\%$	$\pm 1.2\%$	∞
Liquid conductivity (meas.)	$\pm 2.5\%$	Normal	1	0.64	0.43	$\pm 1.6\%$	$\pm 1.1\%$	∞
Liquid permittivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.6	0.49	$\pm 1.7\%$	$\pm 1.4\%$	∞
Liquid permittivity (meas.)	$\pm 2.5\%$	Normal	1	0.6	0.49	$\pm 1.5\%$	$\pm 1.2\%$	∞
Combined Uncertainty						$\pm 9.5\%$	$\pm 9.2\%$	
Expanded Std. Uncertainty						$\pm 18.9\%$	$\pm 18.4\%$	

Table 7: Measurement uncertainties

2.4.14 System validation

The system validation is performed for verifying the accuracy of the complete measurement system and performance of the software. The system validation is performed with tissue equivalent material according to IEEE P1528 (described above). The following table shows validation results for all frequency bands and tissue liquids used during the tests of the test item described in chapter 1.5. (graphic plot(s) see annex 1).

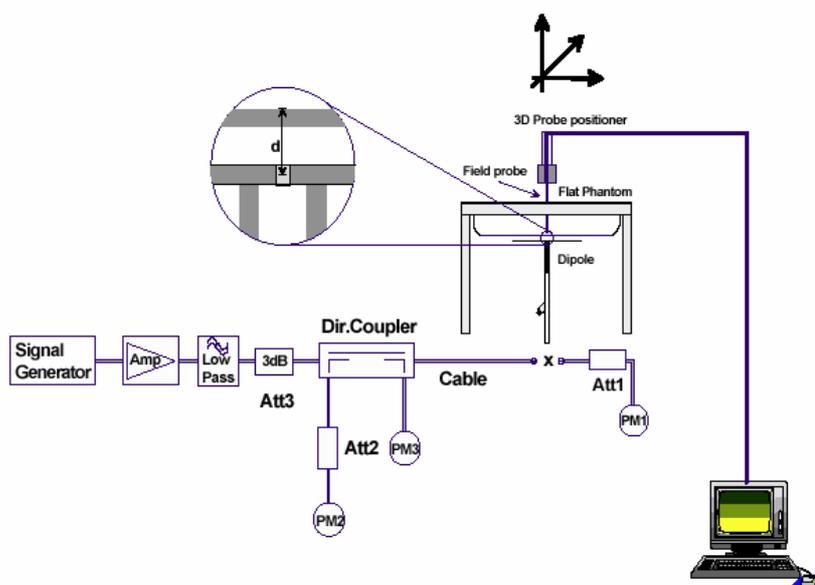
Validation Kit	Frequency	Target SAR _{1g} (250 mW) (+/- 10%)	Target SAR _{10g} (250 mW) (+/- 10%)	Measured SAR _{1g}	Measured SAR _{10g}	Measured date
D835V2 S/N: 4d095	835 MHz head	2.29mW/g	1.50mW/g	2.32mW/g	1.52mW/g	2009-09-10
D835V2 S/N: 4d095	835 MHz body	2.49mW/g	1.62mW/g	2.54mW/g	1.67mW/g	2009-09-11
D1900V2 S/N: 5d091	1900 MHz head	9.60mW/g	5.10mW/g	10.00mW/g	5.10mW/g	2009-09-14
D1900V2 S/N: 5d091	1900 MHz body	10.10mW/g	5.27mW/g	9.94mW/g	5.17mW/g	2009-09-15

Table 8: Results system validation

2.4.15 Validation procedure

The validation is performed by using a validation dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a plexiglass spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 250 mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the validation to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

Validation results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



2.5 Test Results

2.5.1 Conducted power measurements

For the measurements a Rohde & Schwarz Radio Communication Tester CMU 200 was used. The output power was measured using an integrated RF connector and attached RF cable. The conducted output power was also checked before and after each SAR measurement. The resulting power values were within a 0.2 dB tolerance of the values shown below.

Note : CMU200 measures GSM peak and average output power for active timeslots.

For SAR the timebased average power is relevant. The difference in between depends on the duty cycle of the TDMA signal :

No. of timeslots	1	2	3	4
Duty Cycle	1 : 8	1: 4	1 : 2.66	1 : 2
timebased avg. power compared to slotted avg. power	- 9 dB	- 6 dB	- 4.25 dB	- 3 dB

The signalling modes differ as follows :

mode	coding scheme	modulation
GPRS	CS1 to CS4	GMSK

Apart from modulation change (GMSK/8PSK) coding schemes differ in code rate without influence on the RF signal. Therefore one coding scheme per mode was selected for conducted power measurements.

2.5.2 Conducted power measurements

Channel / frequency	modulation	timeslots	slotted avg. power(before test)	timebased avg. power (calculated)	slotted avg. power(after test)
128/ 824.2 MHz	GMSK	1	33.40dBm	24.40dBm	33.42dBm
190/ 836.6MHz	GMSK	1	33.03dBm	24.03dBm	33.07dBm
251/ 848.8 MHz	GMSK	1	33.10dBm	24.10dBm	33.11dBm
128/ 824.2 MHz	GMSK	2	31.64dBm	25.64dBm	31.68dBm
190/ 836.6MHz	GMSK	2	31.44dBm	25.44dBm	31.48dBm
251/ 848.8 MHz	GMSK	2	31.55dBm	25.55dBm	31.58dBm
128/ 824.2 MHz	8PSK	2	26.34dBm	20.34dBm	26.38dBm
190/ 836.6MHz	8PSK	2	26.46dBm	20.46dBm	26.49dBm
251/ 848.8 MHz	8PSK	2	26.14dBm	20.14dBm	26.1dBm

Table 9: Test results conducted power measurement GSM 850 MHz

Channel / frequency	modulation	timeslots	slotted avg. power(before test)	timebased avg. power (calculated)	slotted avg. power(after test)
512 / 1850.2 MHz	GMSK	1	30.34dBm	21.34dBm	30.31dBm
661 / 1880.0 MHz	GMSK	1	30.40dBm	21.40dBm	30.42dBm
810 / 1909.8 MHz	GMSK	1	30.25dBm	21.25dBm	30.29dBm
512 / 1850.2 MHz	GMSK	2	30.23dBm	24.23dBm	30.25dBm
661 / 1880.0 MHz	GMSK	2	30.39dBm	24.39dBm	30.35dBm
810 / 1909.8 MHz	GMSK	2	30.47dBm	24.47dBm	30.5dBm
512 / 1850.2 MHz	8PSK	2	24.63dBm	18.63dBm	24.65dBm
661 / 1880.0 MHz	8PSK	2	24.55dBm	18.55dBm	24.57dBm
810 / 1909.8 MHz	8PSK	2	24.35dBm	18.35dBm	24.33dBm

Table 10: Test results conducted power measurement PCS 1900 MHz

Max. RMS output power, WCDMA FDD V / dBm				
mode		Channel / frequency		
		4132/ 826.4 MHz	4183 / 836.4MHz	4233/ 846.6MHz
RMC 12.2 kbit/s	Before Test	23.51	23.33	23.21
	After Test	23.48	23.3	23.21
RMC 64 kbit/s	Before Test	23.44	23.15	23.55
	After Test	23.39	23.2	23.56
RMC 144 kbit/s	Before Test	23.47	23.24	23.34
	After Test	23.5	23.2	23.32
RMC 384 kbit/s	Before Test	23.64	23.22	23.4
	After Test	23.59	23.2	23.38
HSDPA Sub test 1	Before Test	23.13	23.08	23.2
	After Test	23.10	23.11	23.18
HSDPA Sub test 2	Before Test	22.85	22.87	22.54
	After Test	22.88	22.9	22.51
HSDPA Sub test 3	Before Test	22.45	22.64	22.37
	After Test	22.47	22.6	22.4
HSDPA Sub test 4	Before Test	22.27	22.17	22.45
	After Test	22.3	22.19	22.47

Table 11: Test results conducted power measurement UMTS (WCDMA) FDD V 850MHz

None of the HSDPA settings leads to conducted power values exceeding the conducted power in RMC mode by more than 0.25 dB and the maximum SAR for WCDMA AWS is not above 75% of the SAR limit. Therefore no additional SAR measurements were performed in HSDPA mode. But we still performed the test at worst position of RMC 12.2kbit/s in body mode.

Max. RMS output power, WCDMA FDD II/ dBm				
		Channel / frequency		
mode		9262/ 1852.4MHz	9400 / 1880MHz	9538/ 1907.6MHz
RMC 12.2 kbit/s	Before Test	22.80	22.94	22.80
	After Test	22.84	22.97	22.78
RMC 64 kbit/s	Before Test	22.84	22.94	22.74
	After Test	22.88	22.95	22.74
RMC 144 kbit/s	Before Test	22.80	22.84	22.68
	After Test	22.84	22.88	22.69
RMC 384 kbit/s	Before Test	22.94	22.77	22.91
	After Test	22.92	22.8	22.87
HSDPA Sub test 1	Before Test	23.04	23.0	23.07
	After Test	23.01	22.98	23.04
HSDPA Sub test 2	Before Test	22.74	22.64	22.7
	After Test	22.78	22.67	22.68
HSDPA Sub test 3	Before Test	22.23	22.19	22.27
	After Test	22.24	22.22	22.24
HSDPA Sub test 4	Before Test	22.09	22.04	22.03
	After Test	22.05	22.07	22.03

Table 12: Test results conducted power measurement UMTS (WCDMA) FDD II 1900MHz

None of the HSDPA settings leads to conducted power values exceeding the conducted power in RMC mode by more than 0.25 dB and the maximum SAR for WCDMA AWS is not above 75% of the SAR limit. Therefore no additional SAR measurements were performed in HSDPA mode. But we still performed the test at worst position of RMC 12.2kbit/s in body mode.

2.5.3 Justification of SAR measurements in GSM mode

SAR measurements were performed in GPRS mode with 2 active timeslots because highest timebased averaged output power was calculated for that configuration.

For comparison an additional delta measurement was performed with 1 timeslot in speech mode.

2.5.4 Multiple Transmitter Information

The following tables list information which is relevant for the decision if a simultaneous transmit evaluation is necessary according to KDB 648474.

important abbreviations :

SPLSR : Antenna pair SAR to Peak Location Separation Ratio $(SAR_x + SAR_y)/d_{xy}$

P_{ref} : 12 mW at 2.4 GHz

a) head position

Tx No.	Communication system and frequency band	P_{avg} (mW)	single SAR (W/kg) (see ch. 2.6)	remarks
1a	GSM850	250	0.397	
1b	GSM1900	125	0.487	
1c	WCDMA FDD V	250	0.359	
1d	WCDMA FDD II	250	0.622	
2	Bluetooth 2450 MHz	5	:=0	$P_2 < P_{ref}$
Sum of all 1g-SAR values			n/a	

Table 13: Communication systems and SAR values in head position

antenna pair (x,y)	antenna distance d_{xy} (cm)	L_{xy} (cm)	$SPLSR_{xy}$	sim.-Tx SAR	remarks
(1a,2)	6 cm	n/a	0.06	N	$SPLSR_{xy} < 0.3$
(1b,2)	6 cm	n/a	0.08	N	$SPLSR_{xy} < 0.3$
(1c,2)	6 cm	n/a	0.06	N	$SPLSR_{xy} < 0.3$
(1d,2)	6 cm	n/a	0.10	N	$SPLSR_{xy} < 0.3$

Table 14: Antenna distances and SPLSR evaluation in head position

a) body position

Tx No.	Communication system and frequency band	P_{avg} (mW)	single SAR (W/kg) (see ch. 2.6)	remarks
1a	GSM850	250	0.891	
1b	GSM1900	125	0.713	
1c	WCDMA FDD V	250	0.63	
1d	WCDMA FDD II	250	0.565	
2	Bluetooth 2450 MHz	5	:=0	$P_2 < P_{ref}$
Sum of all 1g-SAR values			n/a	

Table 15: Communication systems and SAR values in body position

antenna pair (x,y)	antenna distance d_{xy} (cm)	L_{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2)	6 cm	n/a	0.14	N	SPLSR _{xy} < 0.3
(1b,2)	6 cm	n/a	0.11	N	SPLSR _{xy} < 0.3
(1c,2)	6 cm	n/a	0.10	N	SPLSR _{xy} < 0.3
(1d,2)	6 cm	n/a	0.09	N	SPLSR _{xy} < 0.3

Table 16: Antenna distances and SPLSR evaluation in body position

In simple word:

The distance of the GSM antenna at the bottom end of the DUT to the Bluetooth antenna at the top of the DUT is about 6 cm.

No simultaneous transmission SAR evaluation is necessary.

The Bluetooth output power is below P_{ref} . So standalone SAR for BT is not necessary.

2.6 Test results (Head and Body SAR)

GSM850

The table contains the measured SAR values averaged over a mass of 1 g					
Channel / frequency	Position	Left hand position	Right hand position	Limit	Liquid temperature
U3205,Close					
190 / 836.6 MHz	cheek	0.385 W/kg	0.397 W/kg	1.6 W/kg	22.3/22.3 °C
190 / 836.6 MHz	tilted 15°	0.323 W/kg	0.301 W/kg	1.6 W/kg	22.3/22.3 °C
U3205,Open					
190 / 836.6 MHz	cheek	0.307 W/kg	0.333 W/kg	1.6 W/kg	22.3/22.3 °C
190 / 836.6 MHz	tilted 15°	0.251 W/kg	0.242 W/kg	1.6 W/kg	22.3/22.3 °C
U3205,Close					
251/ 848.8 MHz	cheek	--- W/kg	0.346 W/kg	1.6 W/kg	---/22.3 °C
128 / 824.2 MHz	cheek	--- W/kg	0.281 W/kg	1.6 W/kg	---/22.3 °C

Table 17: Test results (Head SAR GSM 850 MHz)

The table contains the measured SAR values averaged over a mass of 1 g				
Channel / frequency	Position	Body worn	Limit	Liquid temperature
U3205 GPRS, 2 Time Slots, Close				
190 / 836.6 MHz	front 2TS	0.415 W/kg	1.6 W/kg	22.3 °C
190 / 836.6 MHz	rear 2TS	0.891 W/kg	1.6 W/kg	22.3 °C
U3205 GPRS, 2 Time Slots, Open				
190 / 836.6 MHz	front 2TS	0.598 W/kg	1.6 W/kg	22.3 °C
190 / 836.6 MHz	rear 2TS	0.782 W/kg	1.6 W/kg	22.3 °C
U3205 GPRS, 2 Time Slots, Close				
251/ 848.8MHz	rear 2TS	0.753 W/kg	1.6 W/kg	22.3 °C
128 / 824.2 MHz	rear 2TS	0.813 W/kg	1.6 W/kg	22.3 °C
U3205 EGPRS, 2 Time Slots, Close				
190 / 836.6 MHz	rear 2TS	0.281 W/kg	1.6 W/kg	22.3 °C
U3205 Speech mode, with Headset, Close				
190 / 836.6 MHz	rear	0.543 W/kg	1.6 W/kg	22.3 °C
U3205 Speech mode, with Bluetooth Headset, Close				
190 / 836.6 MHz	rear	0.699 W/kg	1.6 W/kg	22.3 °C

Table 18: Test results (Body SAR GSM 850 MHz)

Note: The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8 W/kg), testing at the high and low channels is optional.

Tests in body position were performed with 15 mm air gap between DUT and SAM to simulate the use of a non-metallic belt-clip or holster.

The addition body test was performed at worst case with 1 time slot in uplink.

PCS 1900

The table contains the measured SAR values averaged over a mass of 1 g					
Channel / frequency	Position	Left hand position	Right hand position	Limit	Liquid temperature
U3205,Close					
661 / 1880.0 MHz	cheek	0.443 W/kg	0.414 W/kg	1.6 W/kg	22.3/22.3 °C
661 / 1880.0 MHz	tilted 15°	0.225 W/kg	0.201 W/kg	1.6 W/kg	22.3/22.3 °C
U3205,Open					
661 / 1880.0 MHz	cheek	0.183 W/kg	0.199 W/kg	1.6 W/kg	22.3/22.3 °C
661 / 1880.0 MHz	tilted 15°	0.089 W/kg	0.077 W/kg	1.6 W/kg	22.3/22.3 °C
U3205,Close					
810 / 1909.8 MHz	cheek	0.389 W/kg	--- W/kg	1.6 W/kg	22.3/--- °C
512 / 1850.2 MHz	cheek	0.487 W/kg	--- W/kg	1.6 W/kg	22.3/--- °C

Table 19: Test results (Head SAR PCS 1900 MHz)

The table contains the measured SAR values averaged over a mass of 1 g				
Channel / frequency	Position	Body worn	Limit	Liquid temperature
U3205 GPRS, 2 Time Slots, Close				
661 / 1880.0 MHz	front 2TS	0.207 W/kg	1.6 W/kg	22.3 °C
661 / 1880.0 MHz	rear 2TS	0.673 W/kg	1.6 W/kg	22.3 °C
U3205 GPRS, 2 Time Slots, Open				
661 / 1880.0 MHz	front 2TS	0.318 W/kg	1.6 W/kg	22.3 °C
661 / 1880.0 MHz	rear 2TS	0.629 W/kg	1.6 W/kg	22.3 °C
U3205 GPRS, 2 Time Slots, Close				
810 / 1909.8 MHz	rear 2TS	0.658 W/kg	1.6 W/kg	22.3 °C
512 / 1850.2 MHz	rear 2TS	0.713 W/kg	1.6 W/kg	22.3 °C
U3205 EGPRS, 2 Time Slots, Close				
512 / 1850.2 MHz	rear 2TS	0.206 W/kg	1.6 W/kg	22.3 °C
U3205 Speech mode, with Headset, Close				
512 / 1850.2 MHz	rear	0.381 W/kg	1.6 W/kg	22.3 °C
U3205 Speech mode, with Bluetooth Headset, Close				
512 / 1850.2 MHz	rear	0.394 W/kg	1.6 W/kg	22.3 °C

Table 20: Test results (Body SAR PCS 1900 MHz)



Note: The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8 W/kg), testing at the high and low channels is optional.

Tests in body position were performed with 15 mm air gap between DUT and SAM to simulate the use of a non-metallic belt-clip or holster.

The addition body test was performed at worst case with 1 time slot in uplink.

UMTS (WCDAM) FDD V

The table contains the measured SAR values averaged over a mass of 1 g					
Channel / frequency	Position	Left hand position	Right hand position	Limit	Liquid temperature
U3205,Close					
4183 / 836.6 MHz	cheek	0.355 W/kg	0.325 W/kg	1.6 W/kg	22.3/22.3 °C
4183 / 836.6 MHz	tilted 15°	0.279 W/kg	0.264 W/kg	1.6 W/kg	22.3/22.3 °C
U3205,Open					
4183 / 836.6 MHz	cheek	0.328 W/kg	0.346 W/kg	1.6 W/kg	22.3/22.3 °C
4183 / 836.6 MHz	tilted 15°	0.255 W/kg	0.253 W/kg	1.6 W/kg	22.3/22.3 °C
U3205,Close					
4233 / 846.6 MHz	cheek	0.359 W/kg	--- W/kg	1.6 W/kg	22.3/--- °C
4132 / 826.4 MHz	cheek	0.334 W/kg	--- W/kg	1.6 W/kg	22.3/--- °C

Table 21: Test results (Head SAR UMTS (WCDMA) FDD V 850MHz)

The table contains the measured SAR values averaged over a mass of 1 g				
Channel / frequency	Position	Body worn	Limit	Liquid temperature
U3205, Close				
4183 / 836.6 MHz	front	0.241 W/kg	1.6 W/kg	22.3 °C
4183 / 836.6 MHz	rear	0.566 W/kg	1.6 W/kg	22.3 °C
U3205, Open				
4183 / 836.6 MHz	front	0.418 W/kg	1.6 W/kg	22.3 °C
4183 / 836.6 MHz	rear	0.584 W/kg	1.6 W/kg	22.3 °C
U3205, Open				
4233 / 846.6 MHz	rear	0.616 W/kg	1.6 W/kg	22.3 °C
4132 / 826.4 MHz	rear	0.42 W/kg	1.6 W/kg	22.3 °C
U3205 with HSDPA , Open				
4233 / 846.6 MHz	rear	0.595 W/kg	1.6 W/kg	22.3 °C
U3205 ,with Headset, Open				
4233 / 846.6 MHz	rear	0.457 W/kg	1.6 W/kg	22.3 °C
U3205, with Bluetooth Headset, Open				
4233 / 846.6 MHz	rear	0.63 W/kg	1.6 W/kg	22.3 °C

Table 22: Test results (Body SAR UMTS (WCDMA) FDD V 850MHz)



Note: The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8 W/kg), testing at the high and low channels is optional.

Tests in body position were performed with 15 mm air gap between DUT and SAM to simulate the use of a non-metallic belt-clip or holster.

UMTS(WCDMA) FDD II

The table contains the measured SAR values averaged over a mass of 1 g					
Channel / frequency	Position	Left hand position	Right hand position	Limit	Liquid temperature
U3205,Close					
9400 / 1880MHz	cheek	0.595 W/kg	0.549 W/kg	1.6 W/kg	22.3/22.3 °C
9400 / 1880MHz	tilted 15°	0.334 W/kg	0.279 W/kg	1.6 W/kg	22.3/22.3 °C
U3205,Open					
9400 / 1880MHz	cheek	0.356 W/kg	0.318 W/kg	1.6 W/kg	22.3/22.3 °C
9400 / 1880MHz	tilted 15°	0.129 W/kg	0.12 W/kg	1.6 W/kg	22.3/22.3 °C
U3205,Close					
9538/ 1907.6 MHz	cheek	0.622 W/kg	--- W/kg	1.6 W/kg	22.3/--- °C
9262 / 1852.4 MHz	cheek	0.622 W/kg	--- W/kg	1.6 W/kg	22.3/--- °C

Table 23: Test results (Head SAR UMTS(WCDMA) FDD II 1900MHz)

The table contains the measured SAR values averaged over a mass of 1 g					
Channel / frequency	Position	Body worn		Limit	Liquid temperature
U3205, Close					
9400 / 1880MHz	front	0.174 W/kg		1.6 W/kg	22.3 °C
9400 / 1880MHz	rear	0.538 W/kg		1.6 W/kg	22.3 °C
U3205, Open					
9400 / 1880MHz	front	0.269 W/kg		1.6 W/kg	22.3 °C
9400 / 1880MHz	rear	0.54 W/kg		1.6 W/kg	22.3 °C
U3205, Open					
9538/ 1907.6 MHz	rear	0.489 W/kg		1.6 W/kg	22.3 °C
9262 / 1852.4 MHz	rear	0.522 W/kg		1.6 W/kg	22.3 °C
U3205 with HSDPA , Open					
9400 / 1880MHz	rear	0.537 W/kg		1.6 W/kg	22.3 °C
U3205 ,with Headset, Open					
9400 / 1880MHz	rear	0.546 W/kg		1.6 W/kg	22.3 °C
U3205, with Bluetooth Headset, Open					
9400 / 1880MHz	rear	0.565 W/kg		1.6 W/kg	22.3 °C

Table 24: Test results (Body SAR UMTS(WCDMA) FDD II 1900MHz)

Note: The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8 W/kg), testing at the high and low channels is optional.

Tests in body position were performed with 15 mm air gap between DUT and SAM to simulate the use of a non-metallic belt-clip or holster.

2.6.1 General description of test procedures

The DUT is tested using a CMU 200 communications tester as controller unit to set test channels and maximum output power to the DUT, as well as for measuring the conducted peak power.

Test positions as described in the tables above are in accordance with the specified test standard.

Tests in body position are performed with the maximum number of timeslots in uplink.

Tests in head position are performed in voice mode with 1 timeslot unless GPRS/EGPRS function allows parallel voice and data traffic on 2 or more timeslots (see chapter 1.5 for details).

Conducted output power was measured using an integrated RF connector and attached RF cable.

Annex 1 System performance verification

Date/Time: 2009-09-10 21:11:02

SystemPerformanceCheck-D835 head

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d059

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

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.913$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 2.48 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

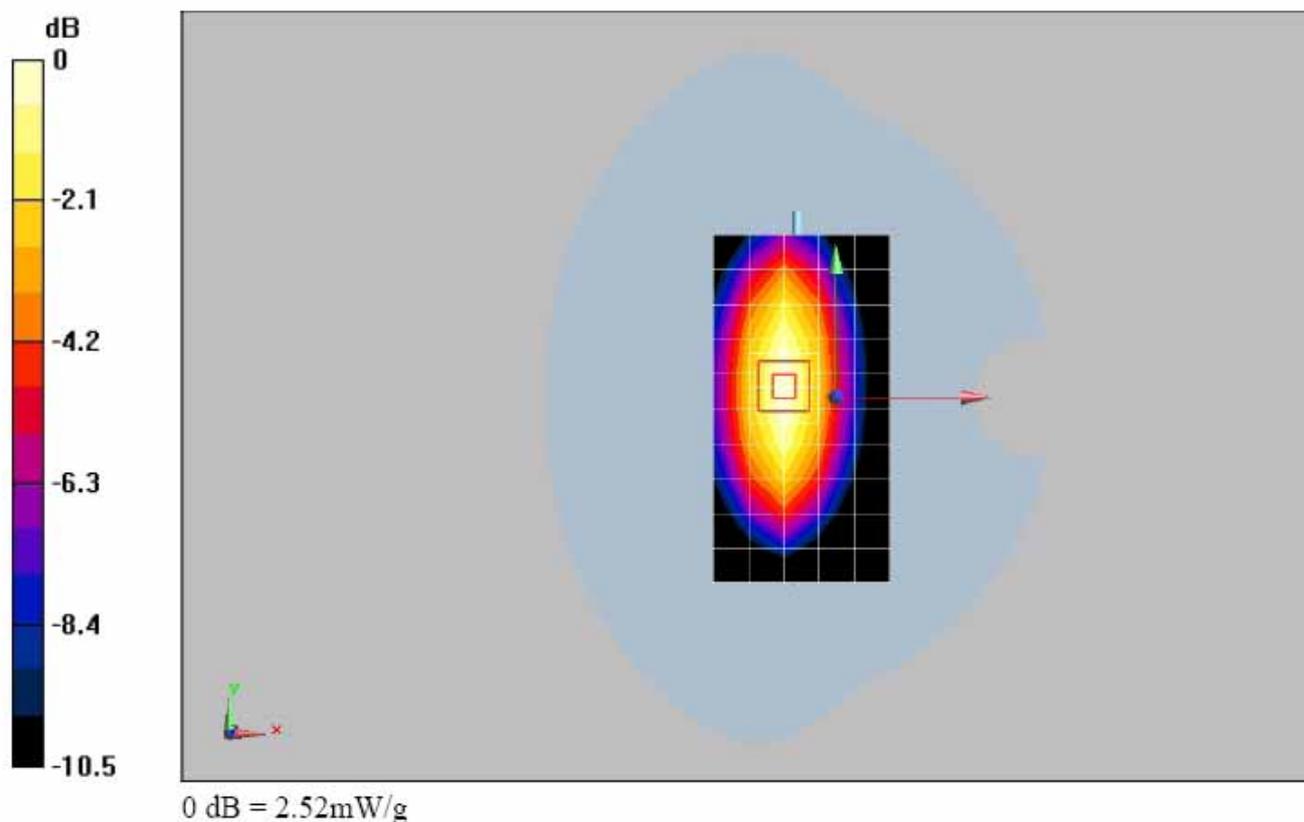
Reference Value = 51.3 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 2.32 mW/g; SAR(10 g) = 1.52 mW/g

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

Maximum value of SAR (measured) = 2.52 mW/g



Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

SystemPerformanceCheck-D835 body

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d059

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.988$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW/Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.64 mW/g

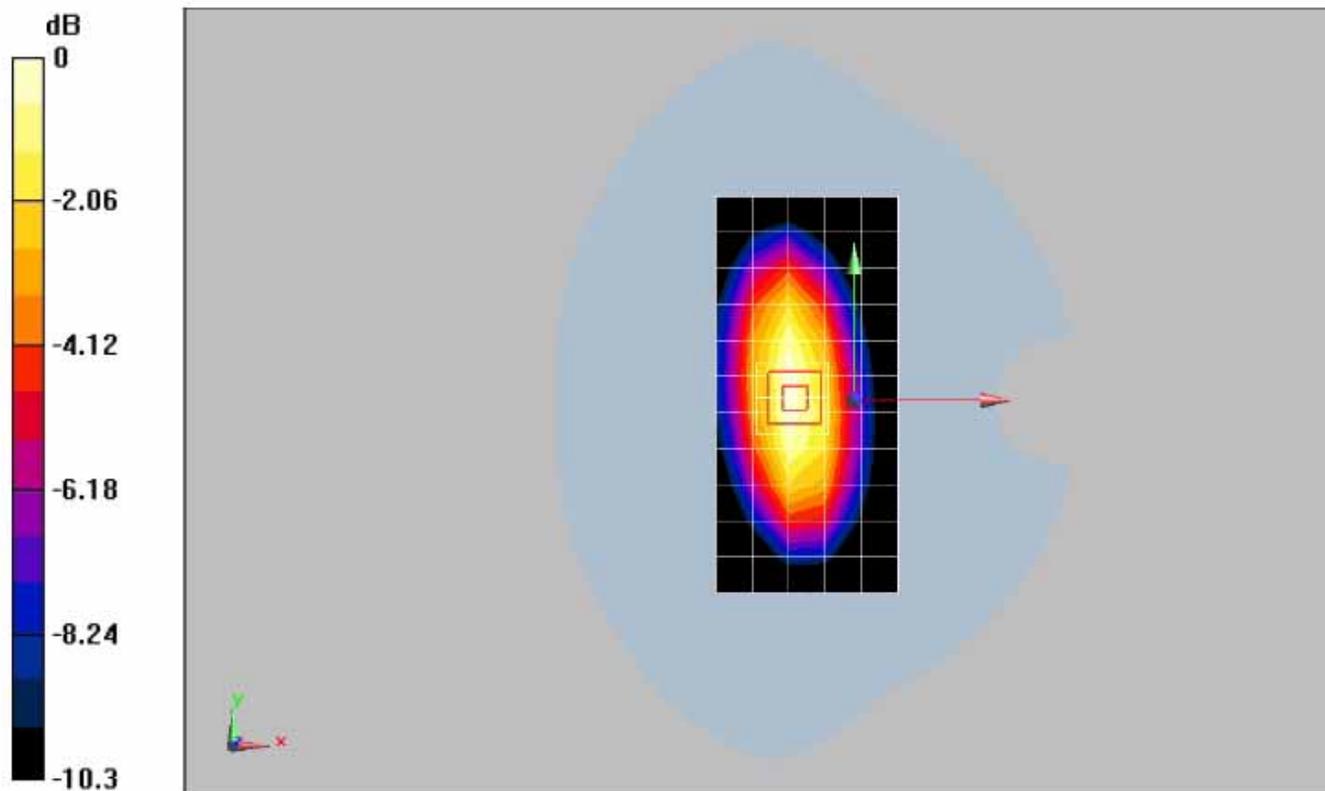
d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.5 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.67 mW/g

Maximum value of SAR (measured) = 2.73 mW/g



0 dB = 2.73mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

SystemPerformanceCheck-D1900 head

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d091

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.4 mW/g

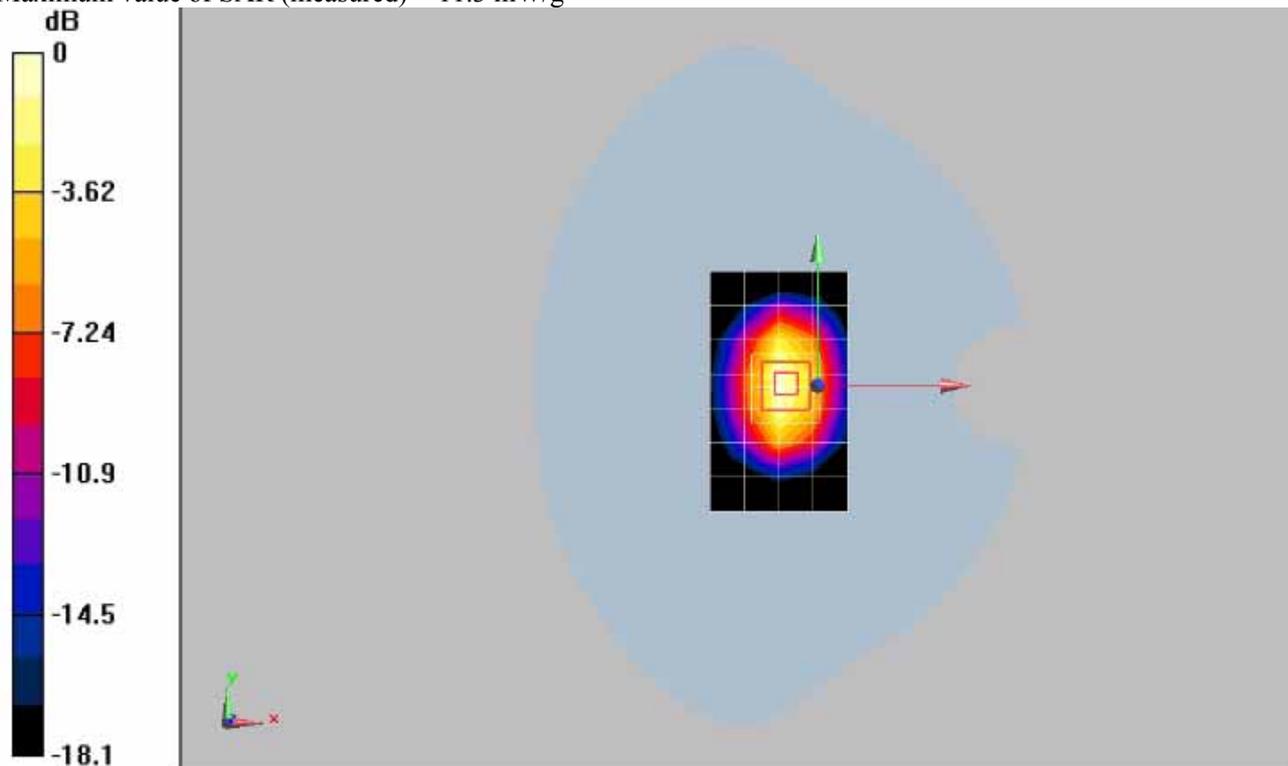
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.7 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10 mW/g; SAR(10 g) = 5.1 mW/g

Maximum value of SAR (measured) = 11.3 mW/g



0 dB = 11.3mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

SystemPerformanceCheck-D1900 body

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d091

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.6 mW/g

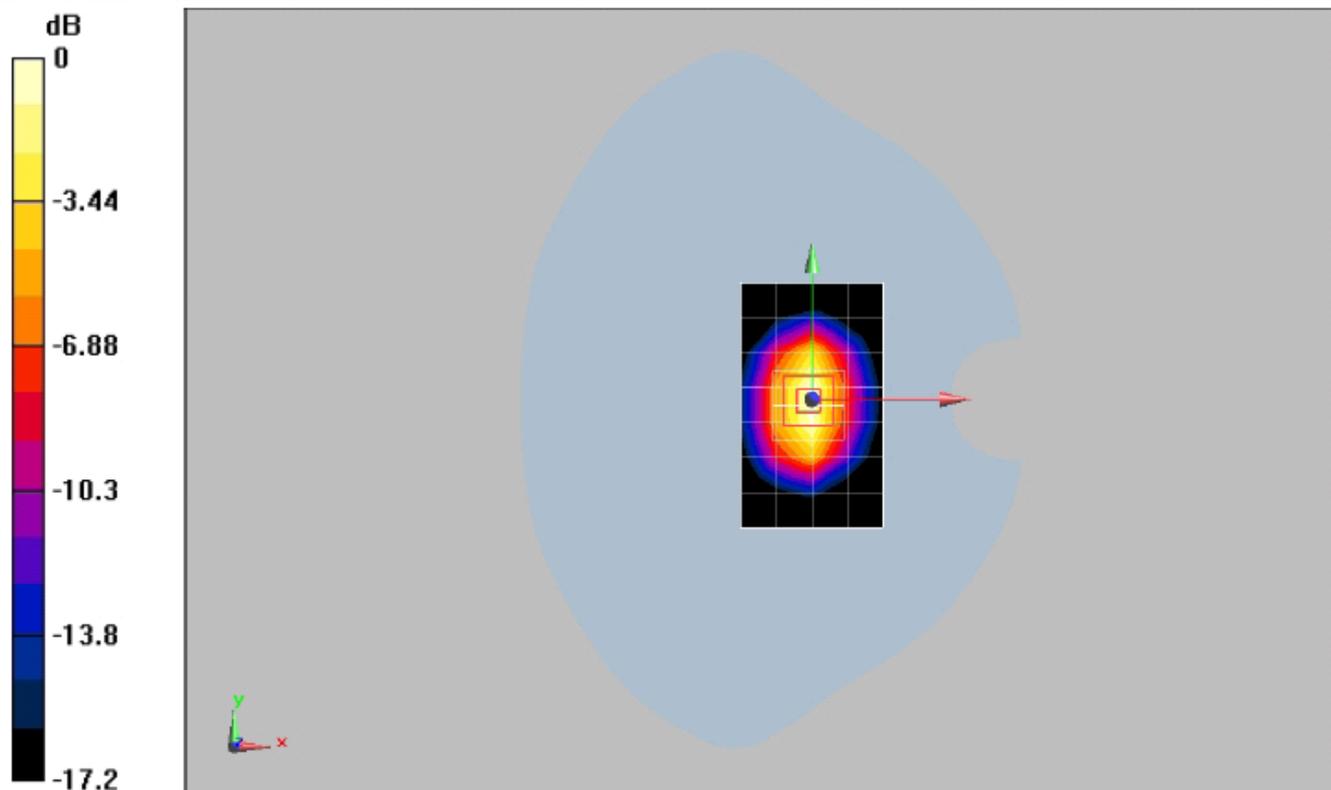
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.3 V/m; Power Drift = 0.00975 dB

Peak SAR (extrapolated) = 18 W/kg

SAR(1 g) = 9.94 mW/g; SAR(10 g) = 5.17 mW/g

Maximum value of SAR (measured) = 11.2 mW/g



0 dB = 11.2mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2 Measurement results (printout from DASY TM)**Remark: results of conducted power measurements: see chapter 2.5/2.6 (if applicable)****Annex 2.1 GSM 850 MHz head**

Date/Time: 2009-09-10 21:47:12

P1528_OET65_EN62209-LeftHandSide touched-Close-GSM850**DUT: U3205**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.385 mW/g

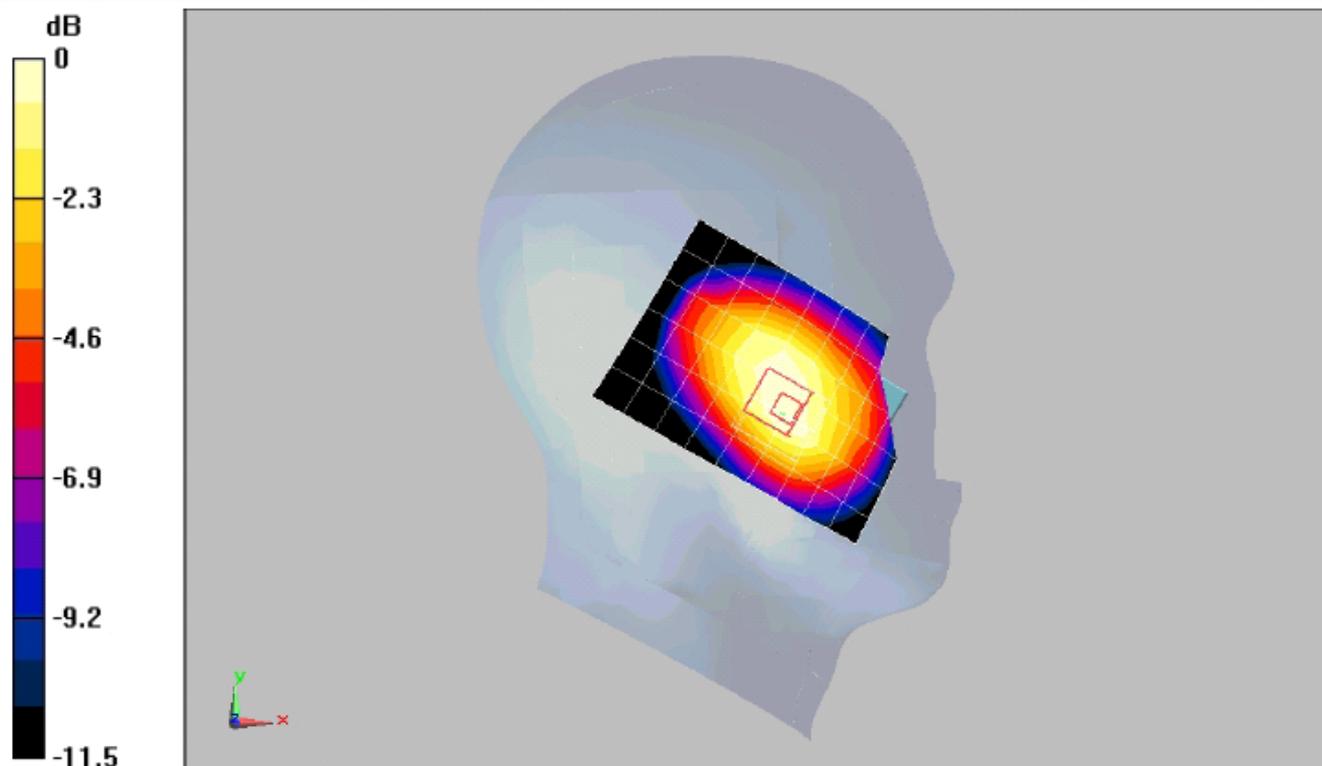
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.281 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.410 mW/g



0 dB = 0.410mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide tilted 15° -Close-GSM850

DUT: U3205

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.327 mW/g

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

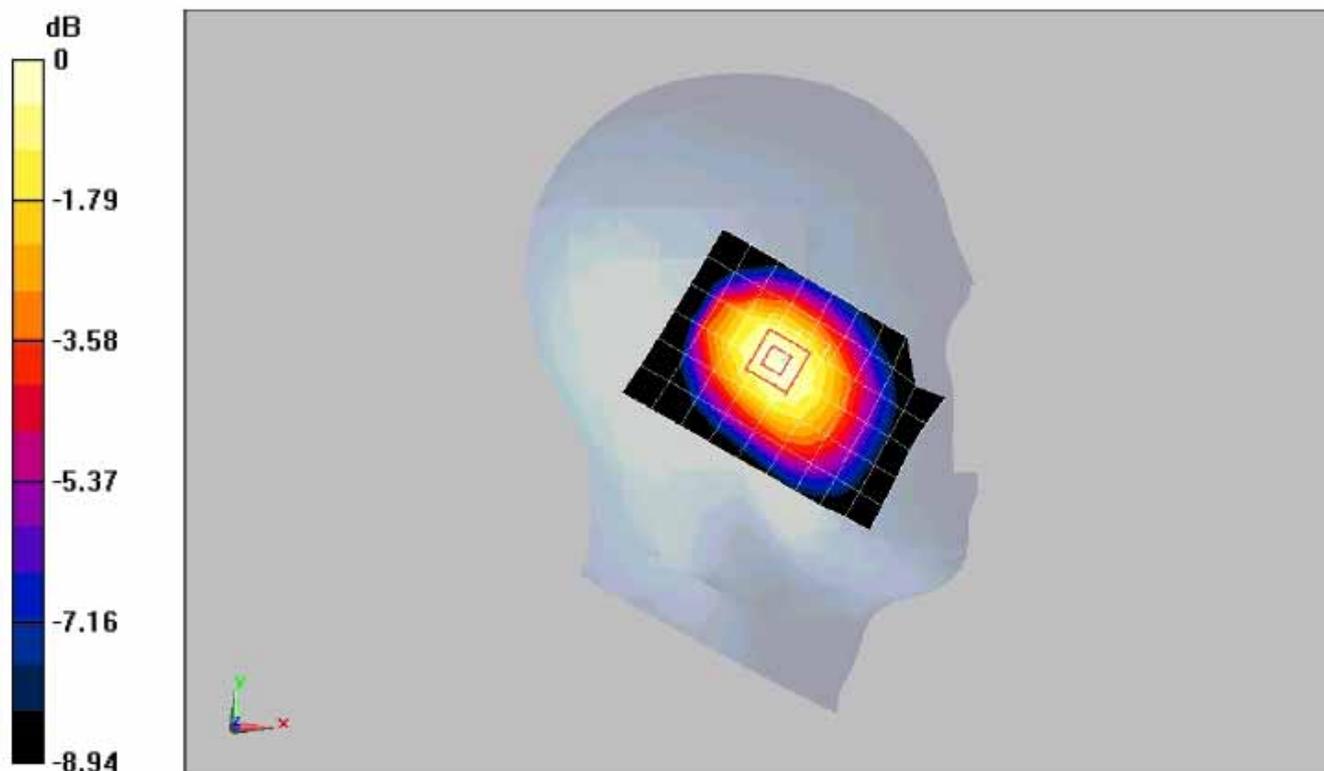
Reference Value = 16.8 V/m; Power Drift = 0.00202 dB

Peak SAR (extrapolated) = 0.400 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.240 mW/g

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

Maximum value of SAR (measured) = 0.341 mW/g



0 dB = 0.341mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide touched-Open-GSM850

DUT: U3205

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.325 mW/g

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

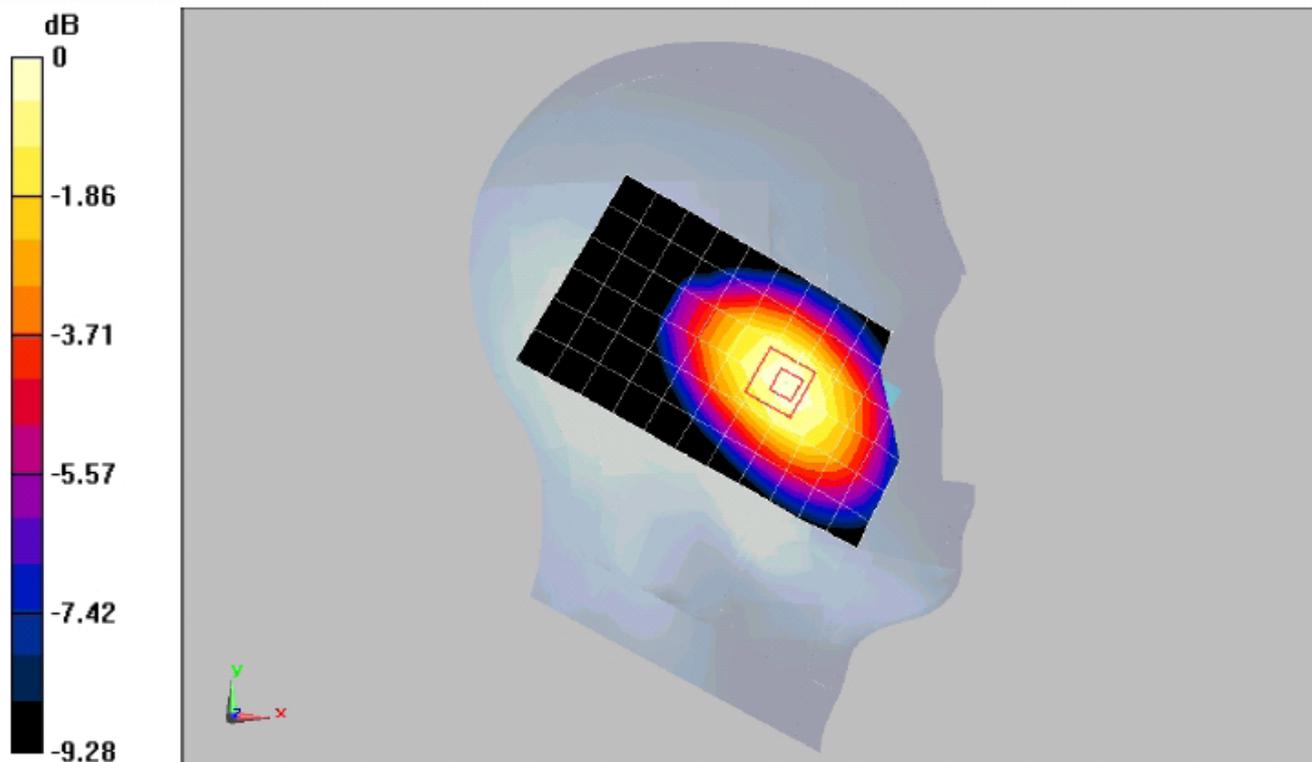
Reference Value = 11.4 V/m; Power Drift = -0.00406 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.230 mW/g

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

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



0 dB = 0.326mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide tilted 15° -Open-GSM850

DUT: U3205

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.257 mW/g

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

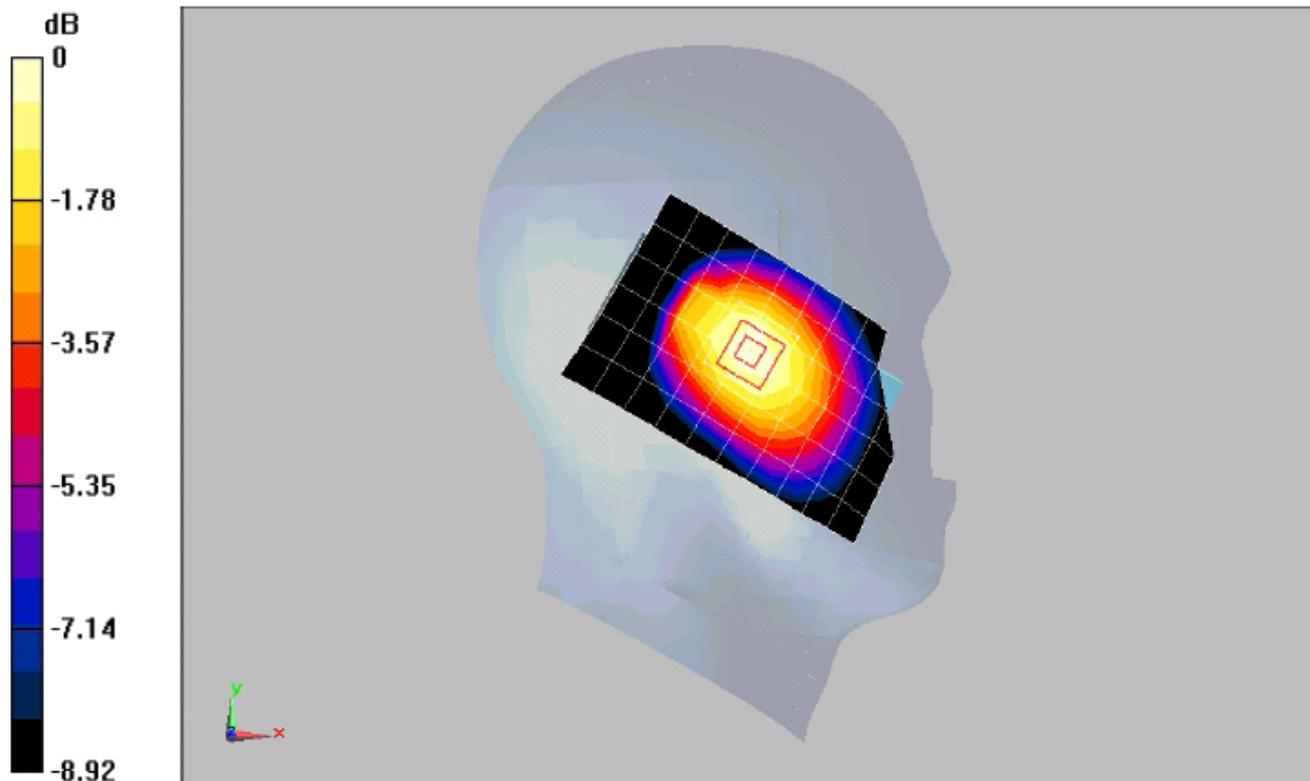
Reference Value = 14.5 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.186 mW/g

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

Maximum value of SAR (measured) = 0.267 mW/g



0 dB = 0.267mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Close-GSM850**DUT: U3205**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.413 mW/g

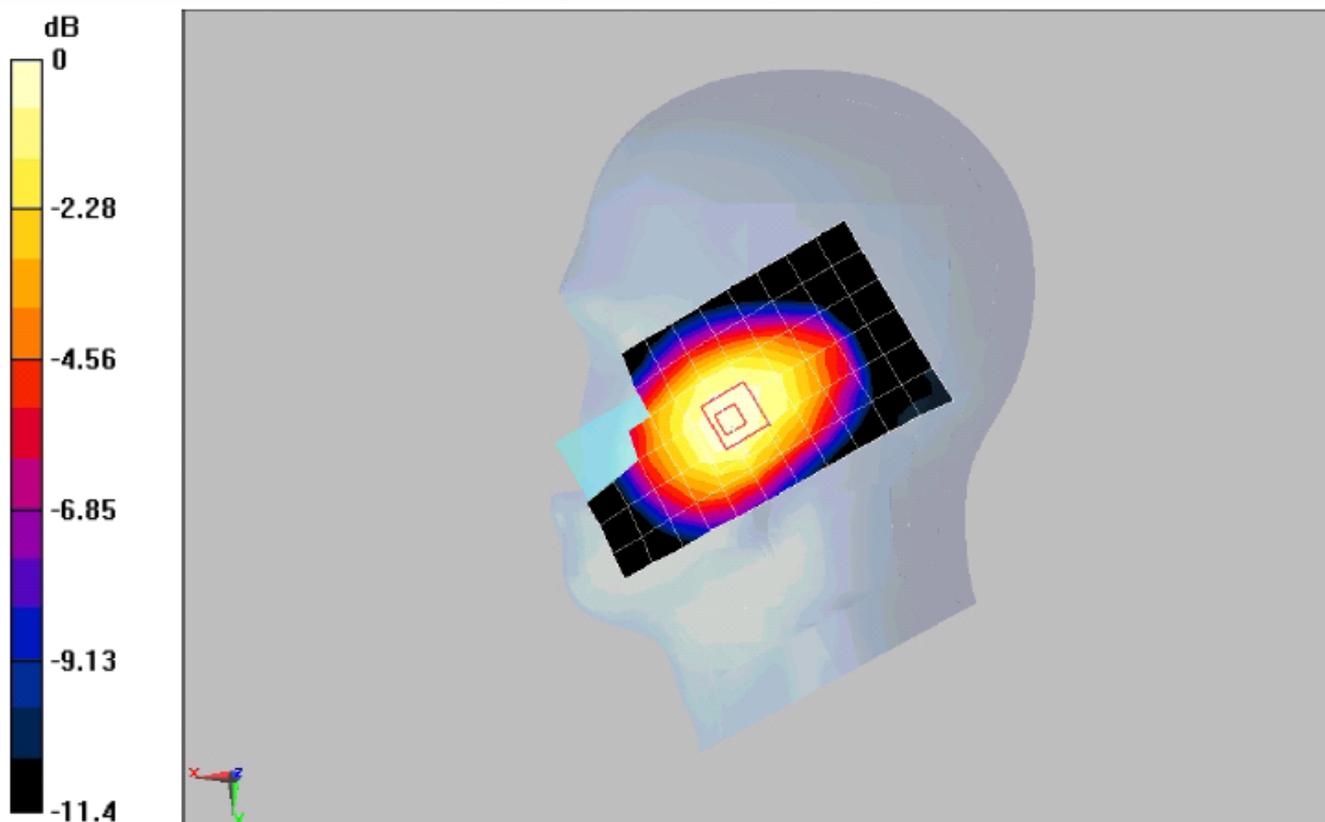
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.306 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.419 mW/g



0 dB = 0.419mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide tilted 15° - Close-GSM850

DUT: U3205

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.317 mW/g

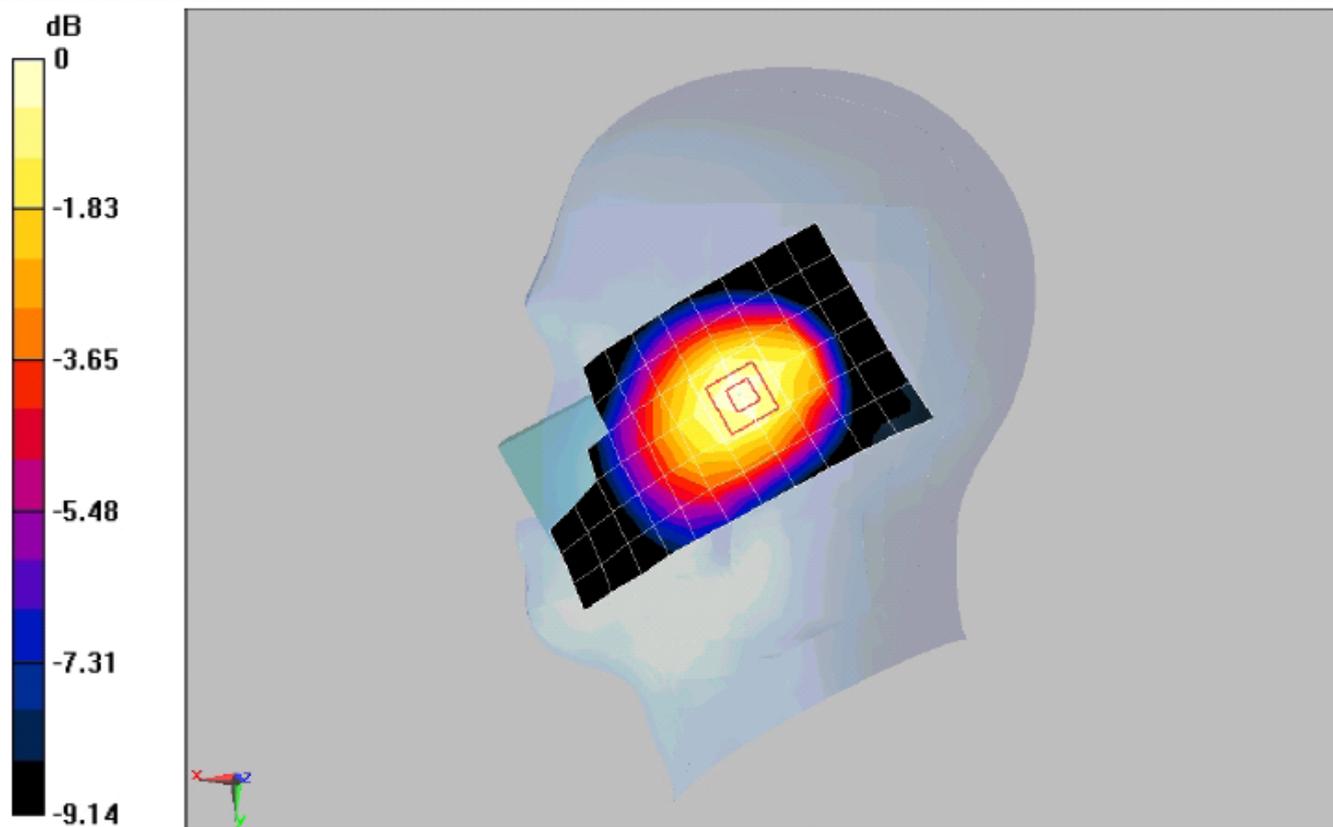
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = -0.00365 dB

Peak SAR (extrapolated) = 0.369 W/kg

SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.225 mW/g

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



0 dB = 0.317mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Open-GSM850**DUT: U3205**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.333 mW/g

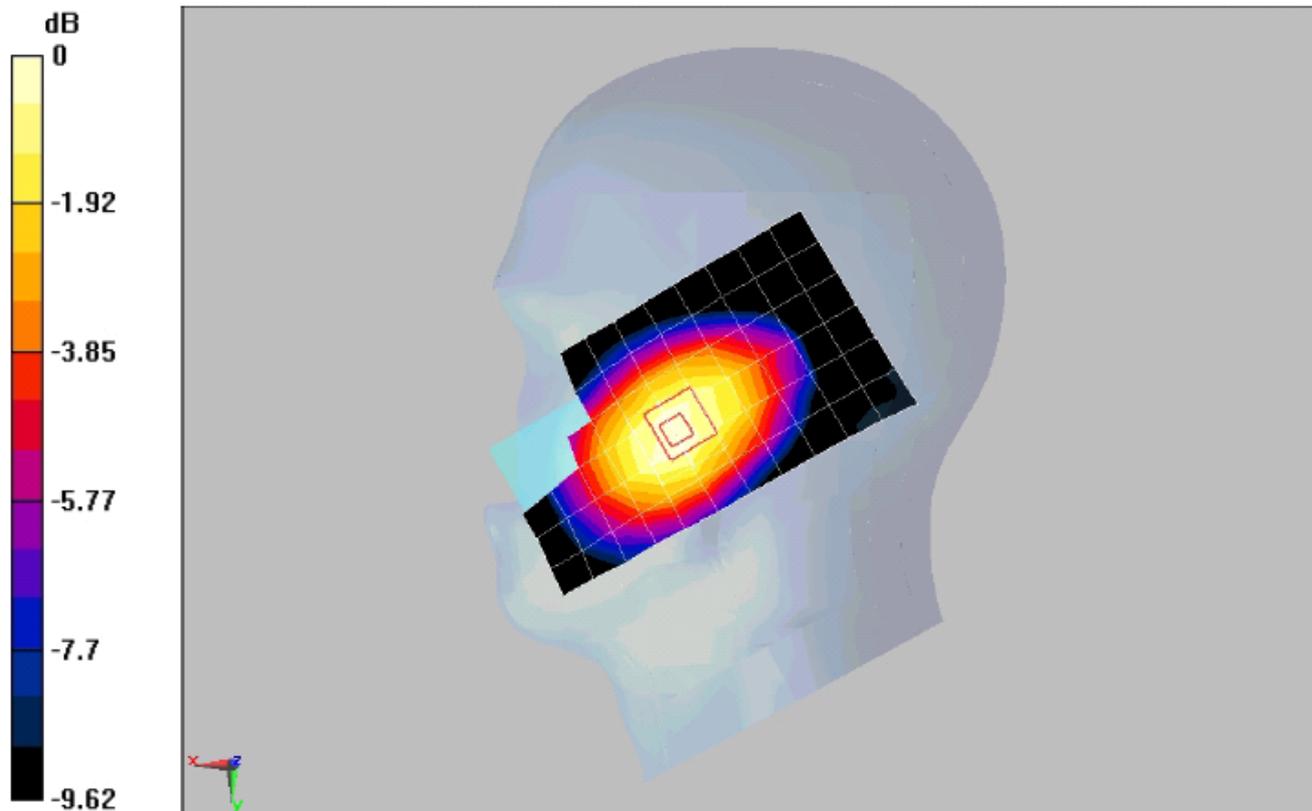
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = 0.163 dB

Peak SAR (extrapolated) = 0.404 W/kg

SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.251 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide tilted 15° - Open-GSM850**DUT: U3205**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.250 mW/g

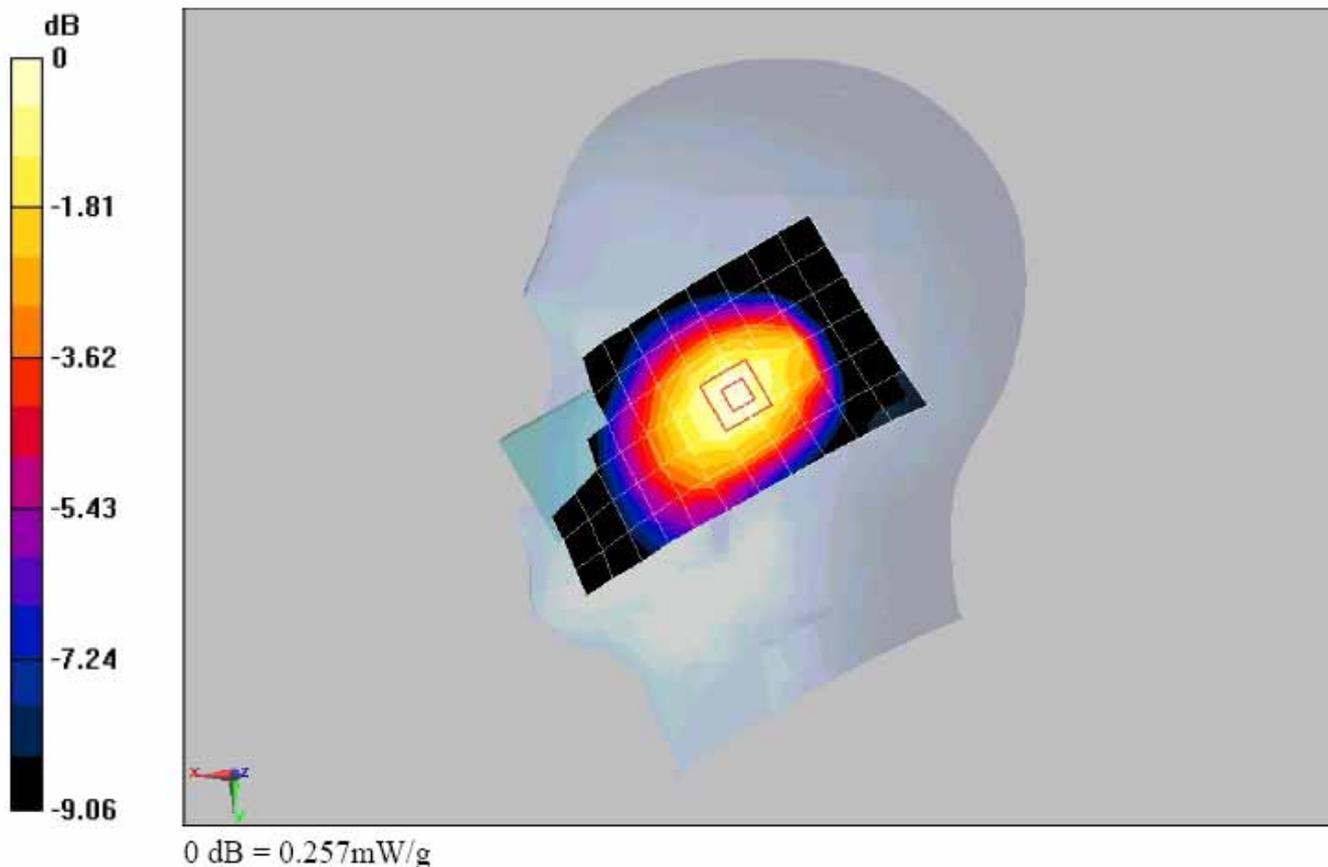
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 0.303 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.179 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.257 mW/g

**Additional information:**

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Close-GSM850

DUT: U3205

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.925$ mho/m; $\epsilon_r = 43.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.350 mW/g

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

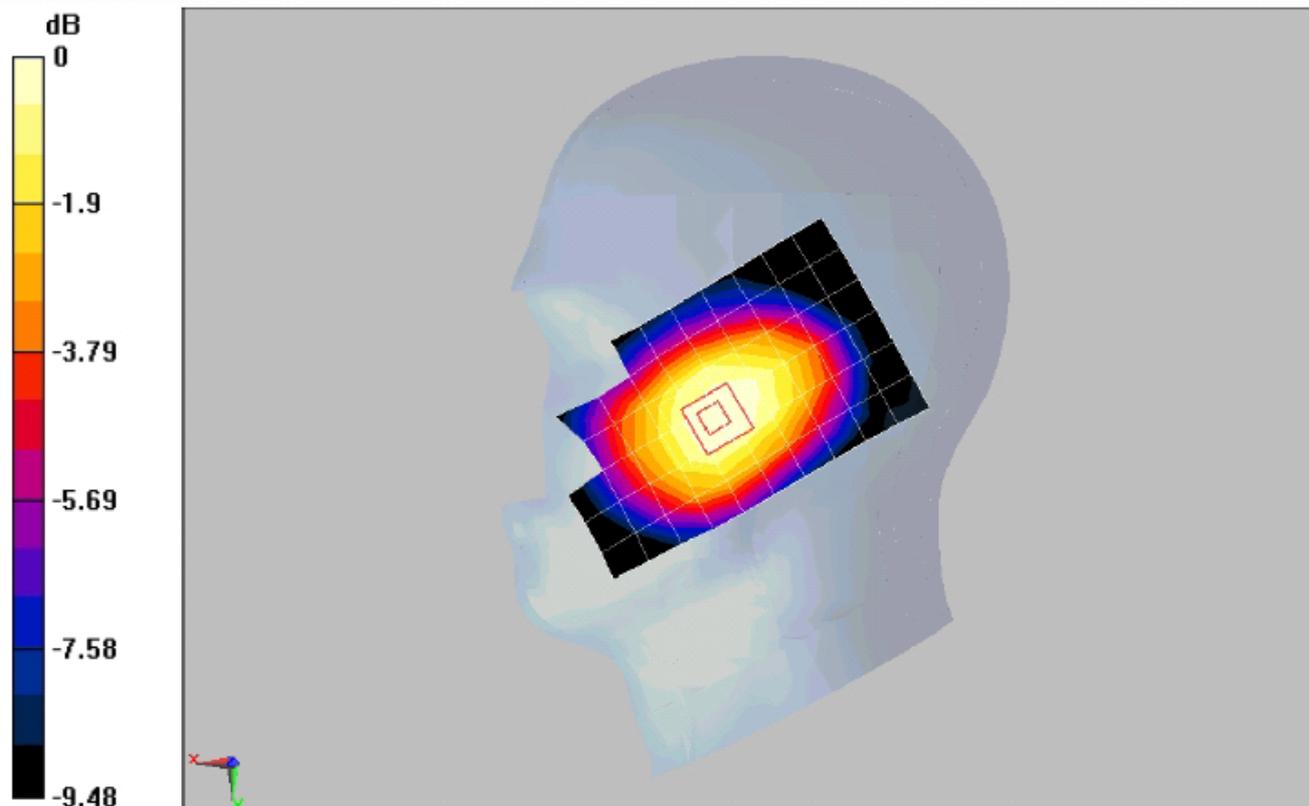
Reference Value = 14 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.268 mW/g

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

Maximum value of SAR (measured) = 0.362 mW/g



0 dB = 0.362mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Close-GSM850**DUT: U3205**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 43.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

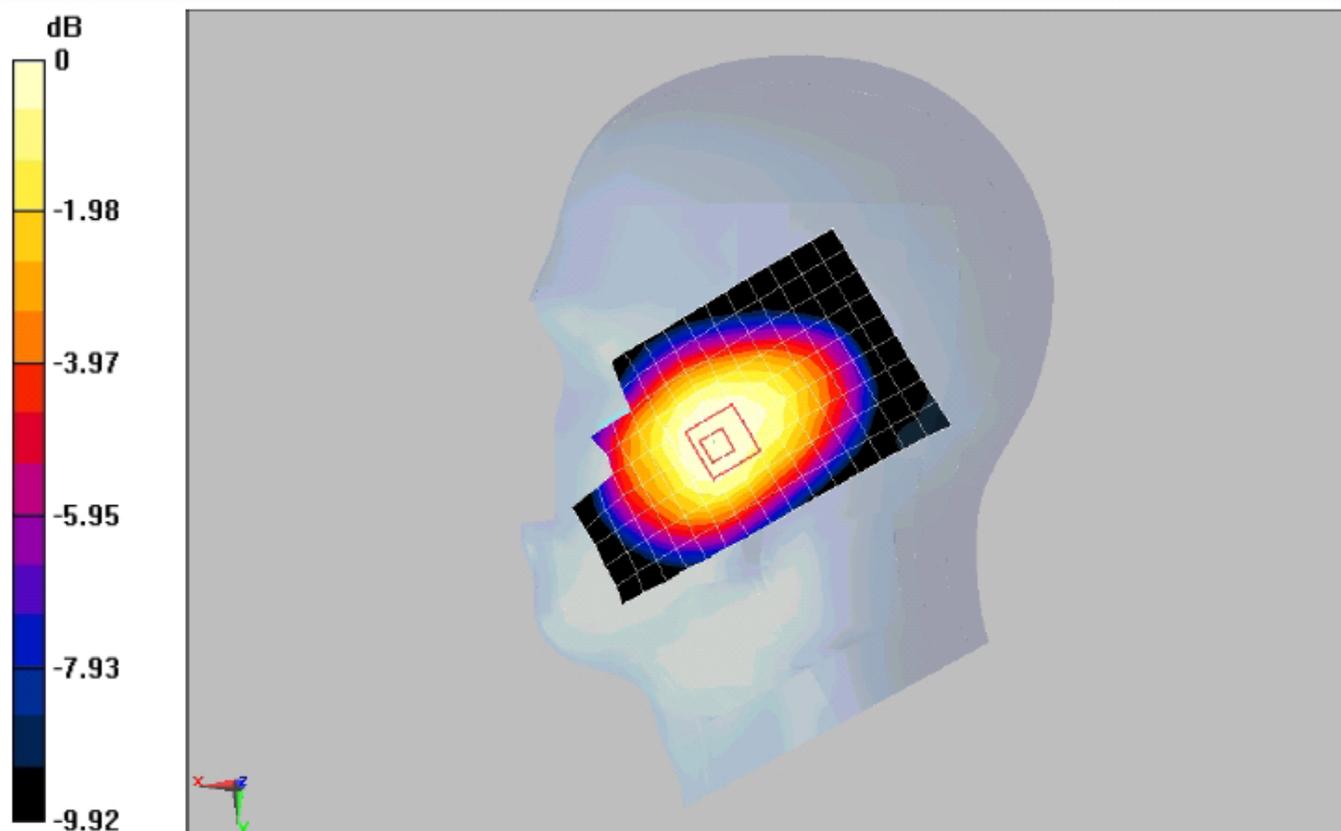
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.2 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.219 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



0 dB = 0.295mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2.2 GSM 850MHz body

Date/Time: 2009-09-11 21:40:10

P1528_OET65_EN62209- GSM850 GPRS 2TS towards phantom-Close**DUT: U3205**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.443 mW/g

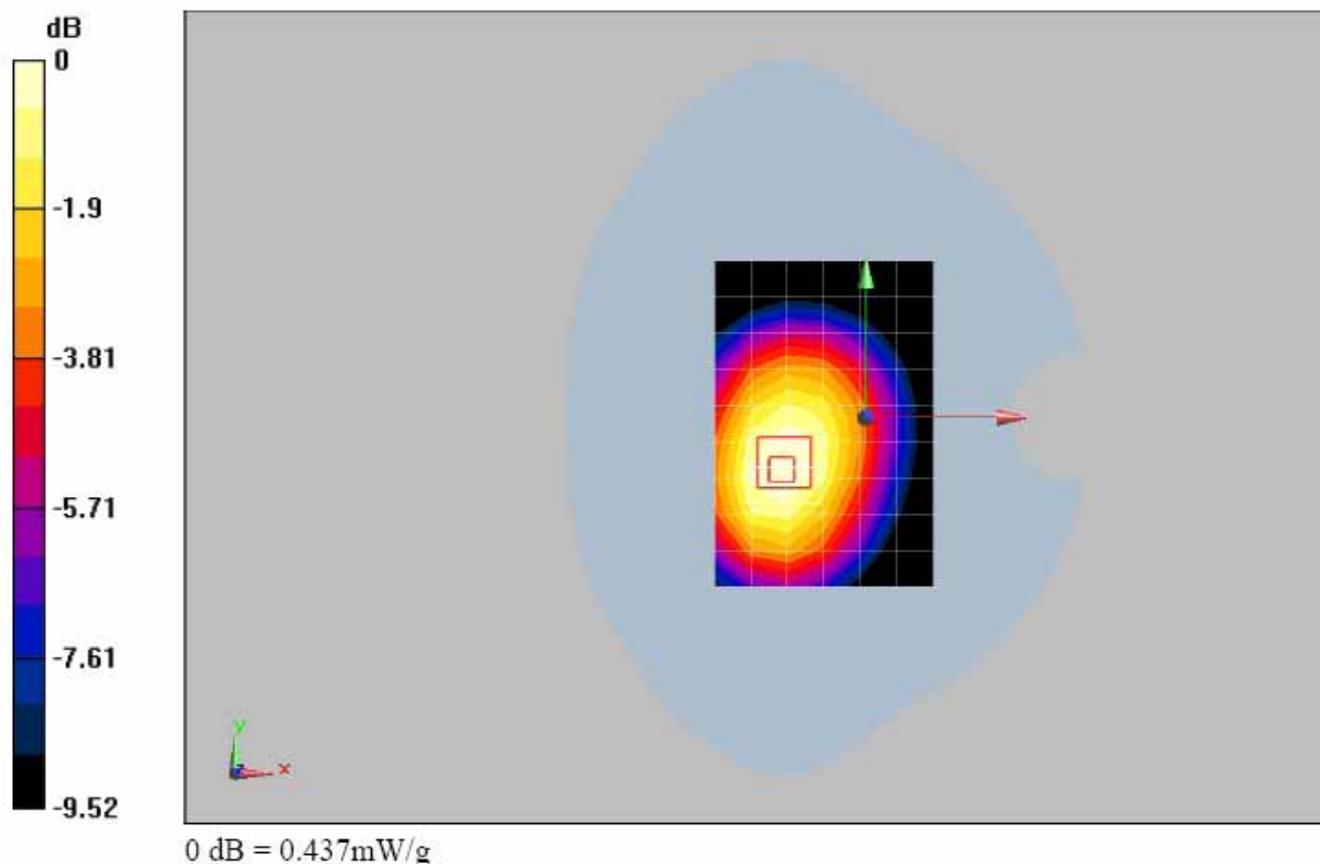
body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.6 V/m; Power Drift = -0.191 dB

Peak SAR (extrapolated) = 0.547 W/kg

SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.301 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.437 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: 22.3°C

P1528_OET65_EN62209- GSM850 GPRS 2TS towards phantom-Open

DUT: U3205

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- 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) = 0.620 mW/g

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

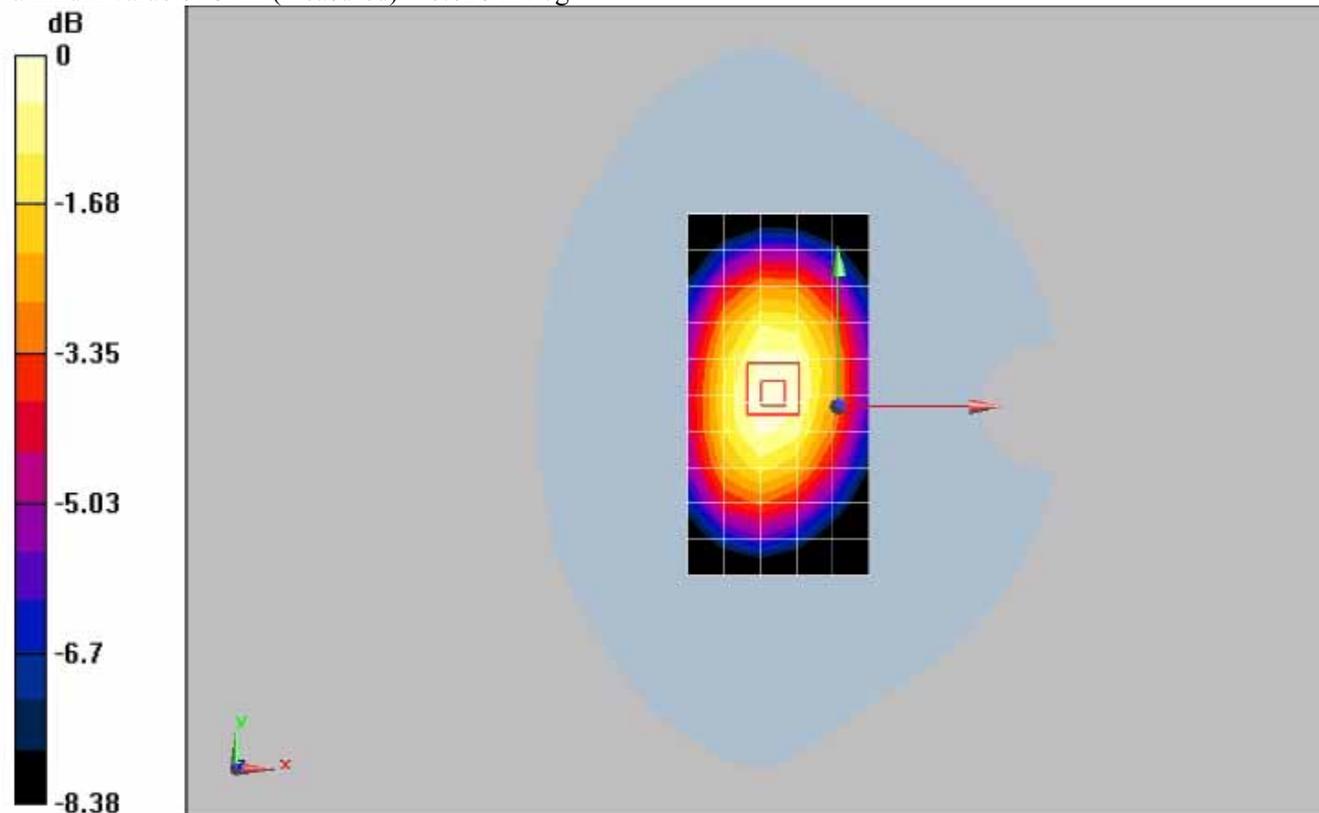
Reference Value = 24.3 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.748 W/kg

SAR(1 g) = 0.598 mW/g; SAR(10 g) = 0.446 mW/g

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

Maximum value of SAR (measured) = 0.628 mW/g



0 dB = 0.628mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- GSM850 GPRS 2TS towards Ground-Close**DUT: U3205**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

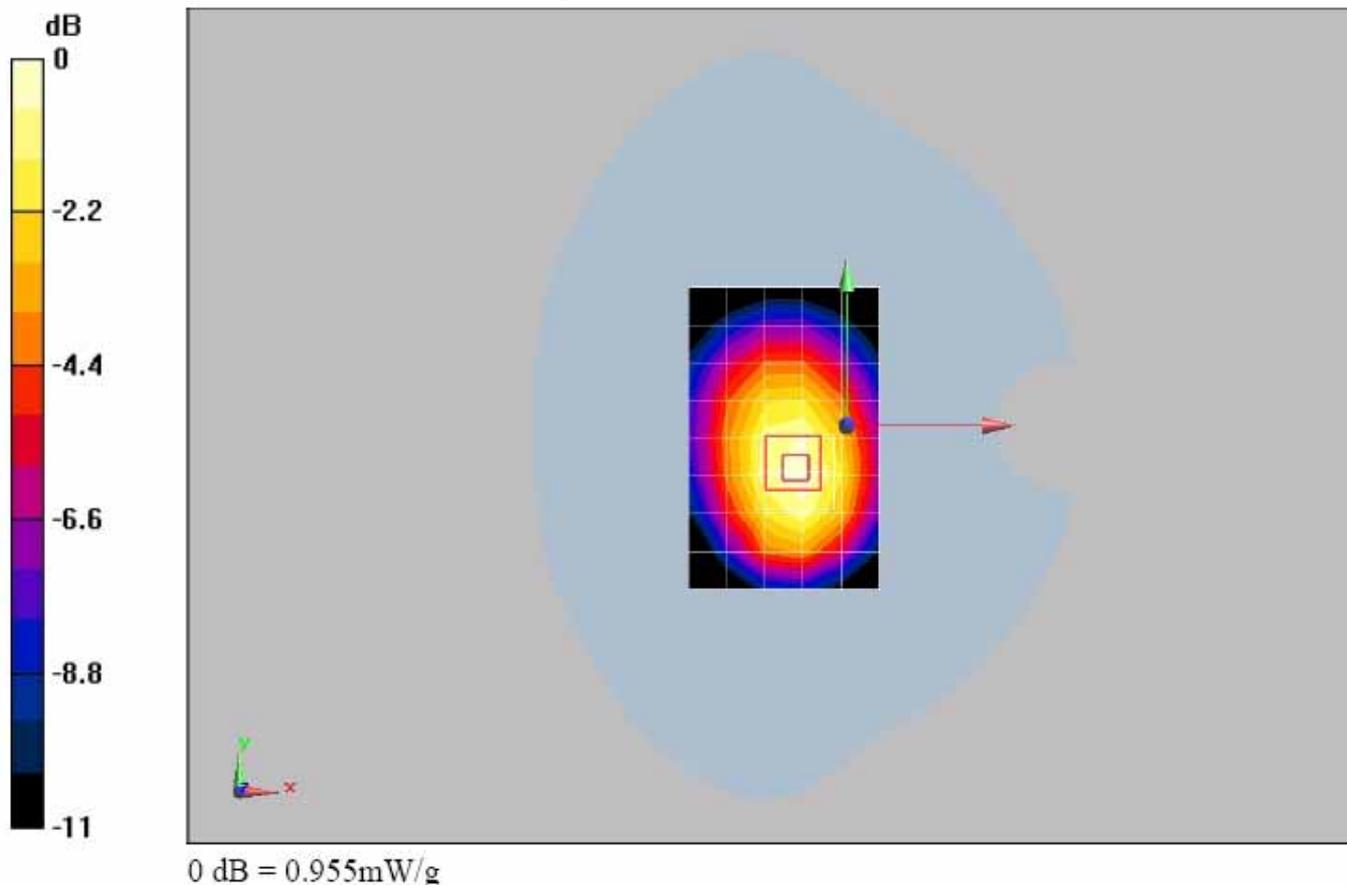
body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 1.2 W/kg

SAR(1 g) = 0.891 mW/g; SAR(10 g) = 0.622 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.955 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: 22.3°C

P1528_OET65_EN62209- GSM850 GPRS 2TS towards Ground-Open**DUT: U3205**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- 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) = 0.816 mW/g

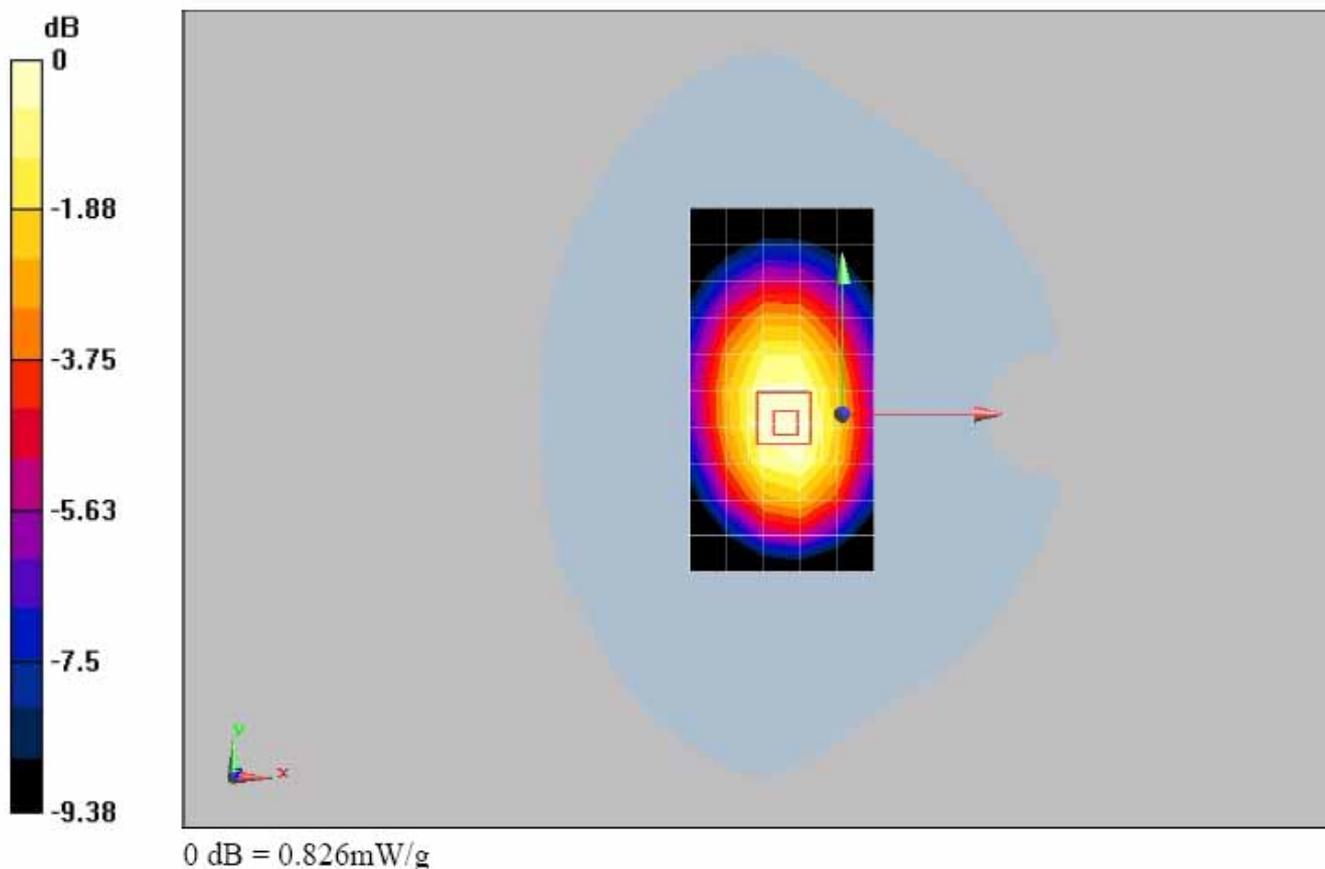
body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.6 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 1 W/kg

SAR(1 g) = 0.782 mW/g; SAR(10 g) = 0.571 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.826 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: 22.3°C

P1528_OET65_EN62209- GSM850 GPRS 2TS towards Ground-Close

DUT: U3205

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.781 mW/g

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

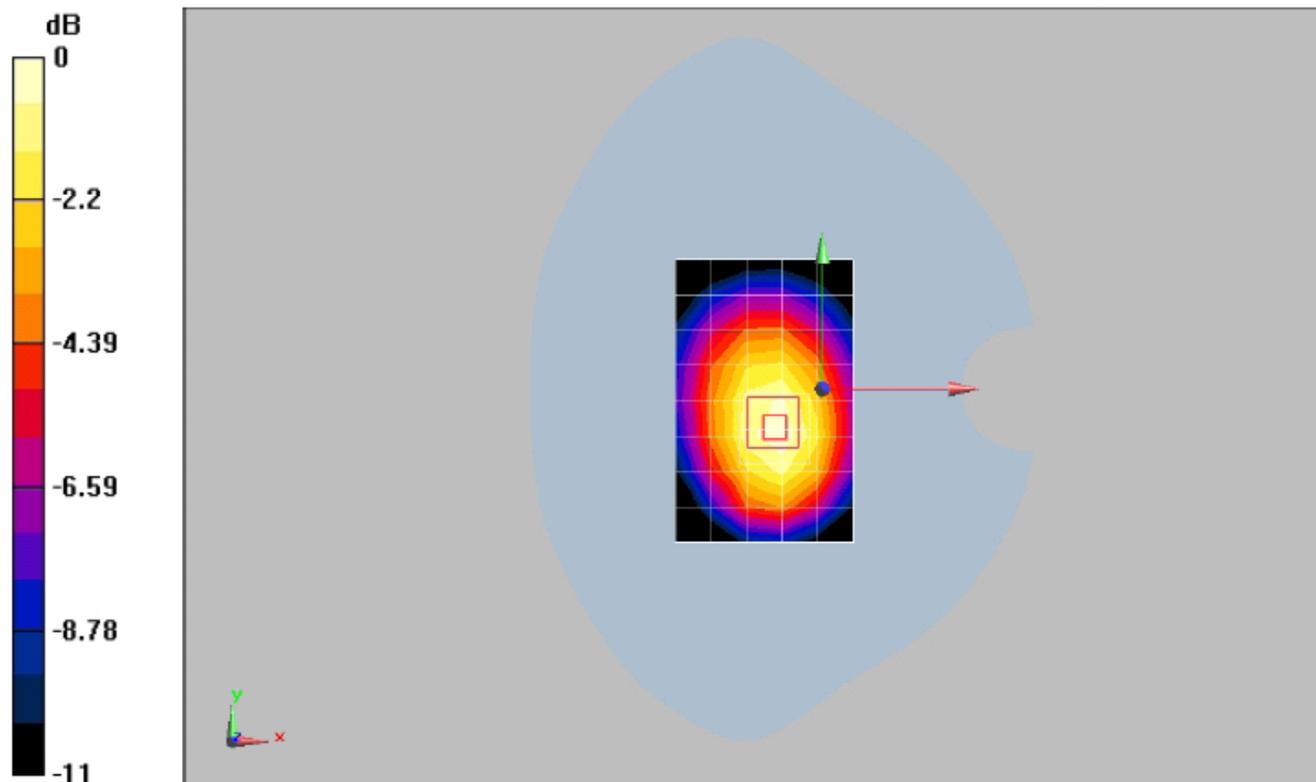
Reference Value = 25.8 V/m; Power Drift = 0.080 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.753 mW/g; SAR(10 g) = 0.524 mW/g

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

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



0 dB = 0.805mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- GSM850 GPRS 2TS towards Ground-Close

DUT: U3205

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:4.1

Medium parameters used: $f = 825$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.868 mW/g

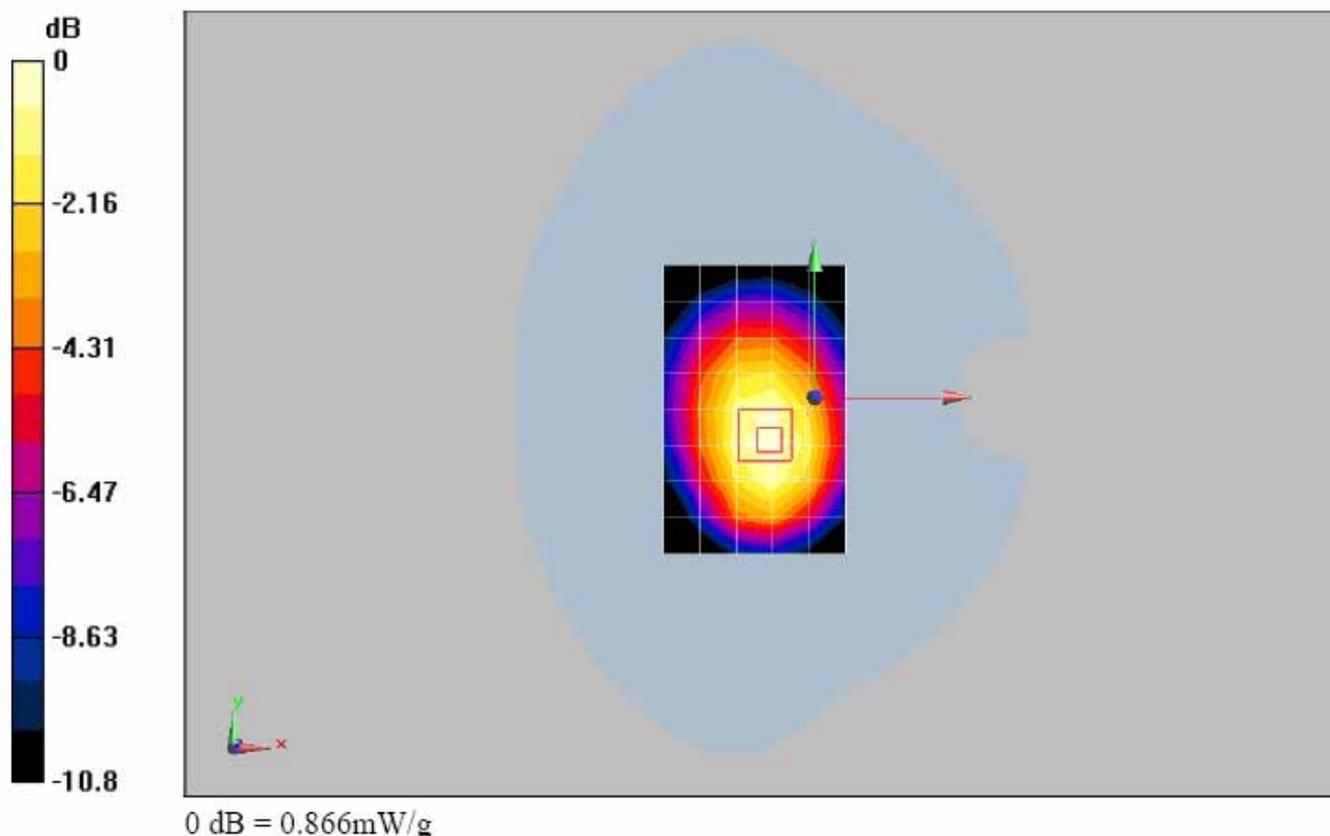
body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.4 V/m; Power Drift = -0.066 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.569 mW/g

Maximum value of SAR (measured) = 0.866 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: 22.3°C

P1528_OET65_EN62209- GSM850 EGPRS 2TS towards Ground-Close**DUT: U3205**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.309 mW/g

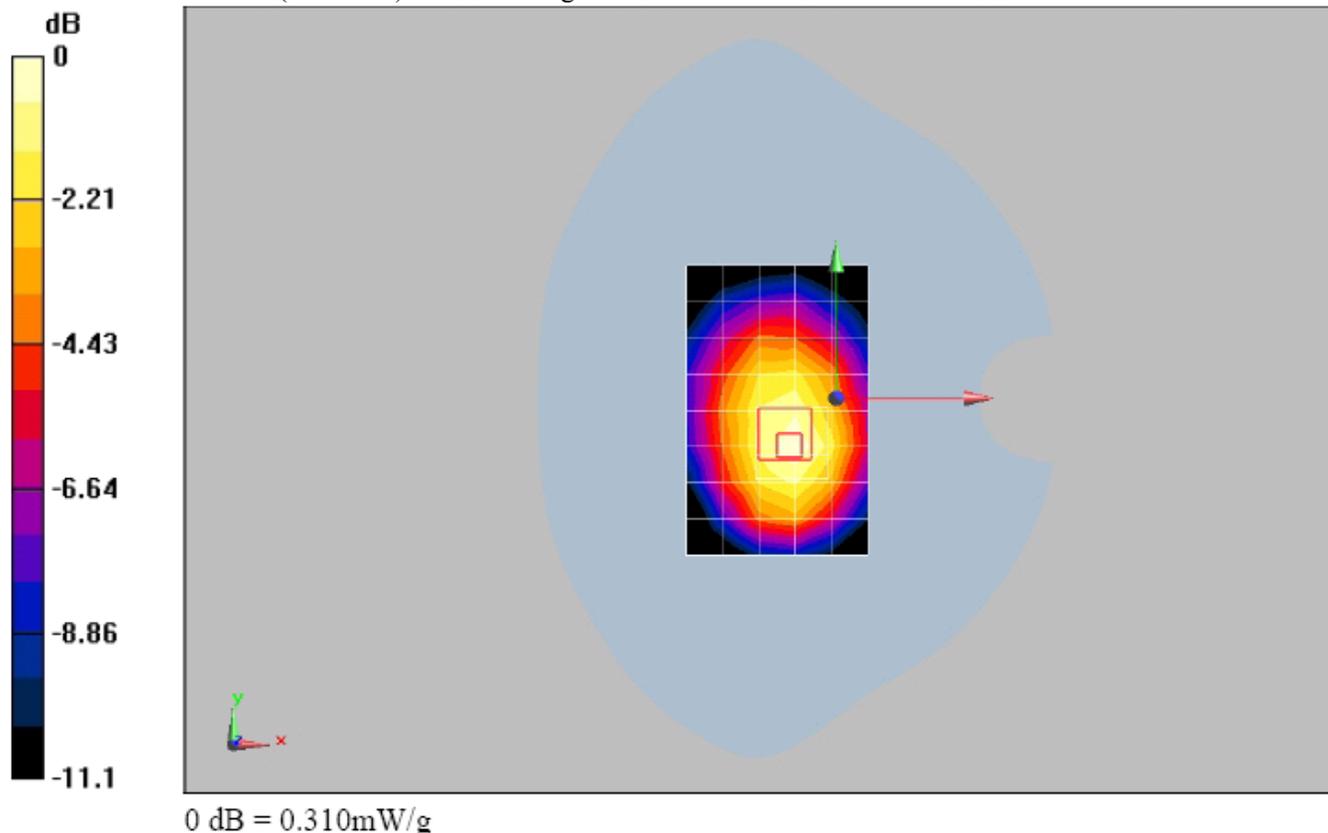
body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.199 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.310 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: 22.3°C

P1528_OET65_EN62209- GSM850 towards Ground with Headset-Close

DUT: U3205

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.588 mW/g

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

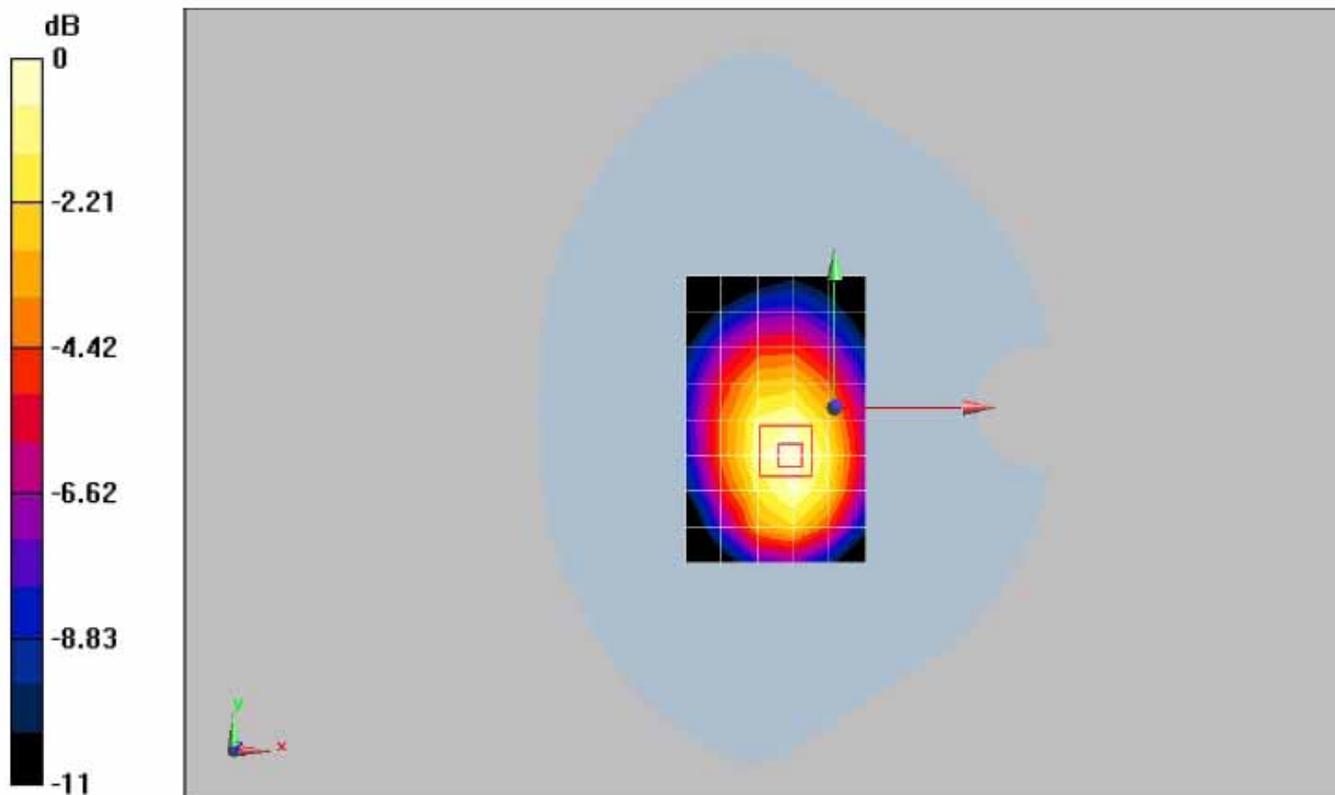
Reference Value = 21.4 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.375 mW/g

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

Maximum value of SAR (measured) = 0.579 mW/g



0 dB = 0.579mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- GSM850 towards Ground with Bluetooth Headset-Close

DUT: U3205

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.755 mW/g

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

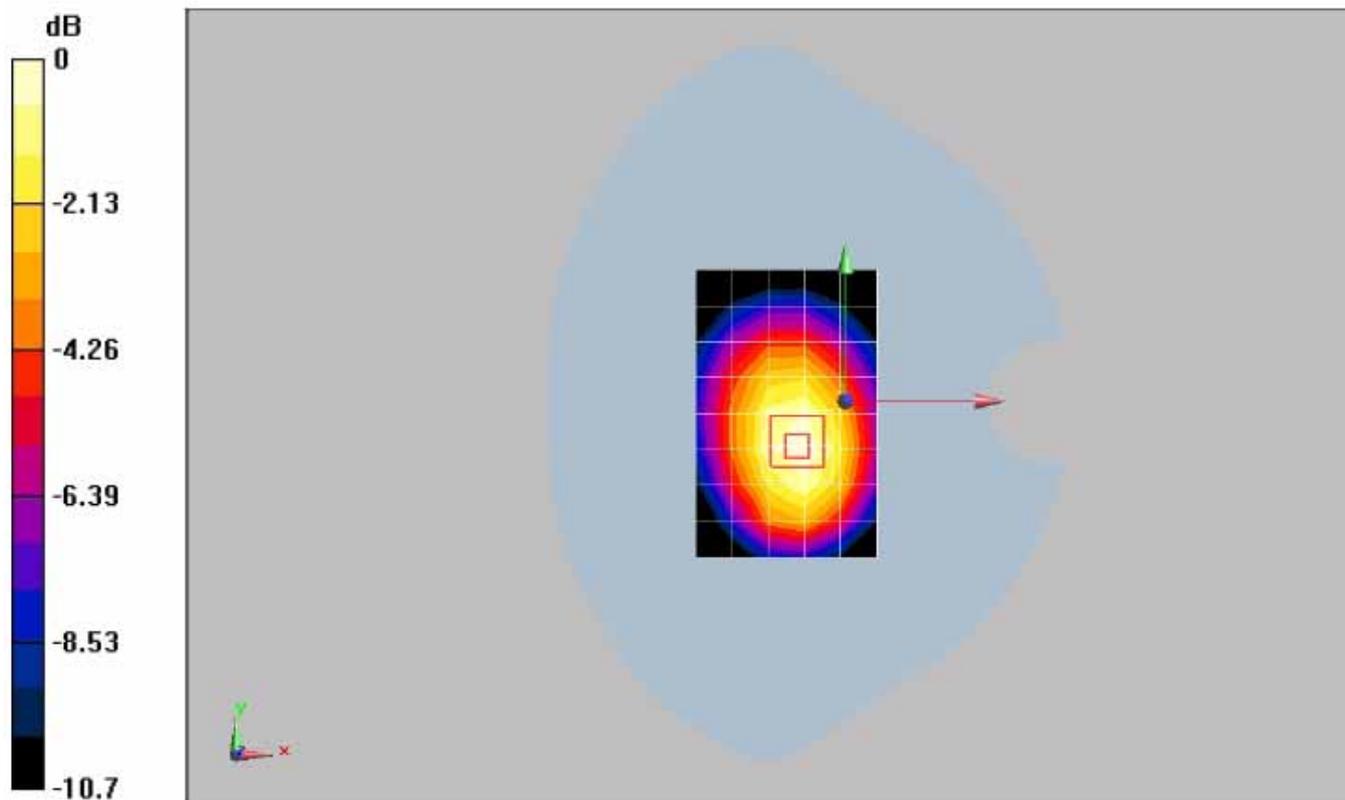
Reference Value = 24.7 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.937 W/kg

SAR(1 g) = 0.699 mW/g; SAR(10 g) = 0.488 mW/g

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

Maximum value of SAR (measured) = 0.748 mW/g



0 dB = 0.748mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2.3 PCS 1900 MHz head

Date/Time: 2009-09-14 21:41:10

P1528_OET65_EN62209-LeftHandSide touched-Close-GSM1900

DUT: U3205

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (11x15x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.489 mW/g

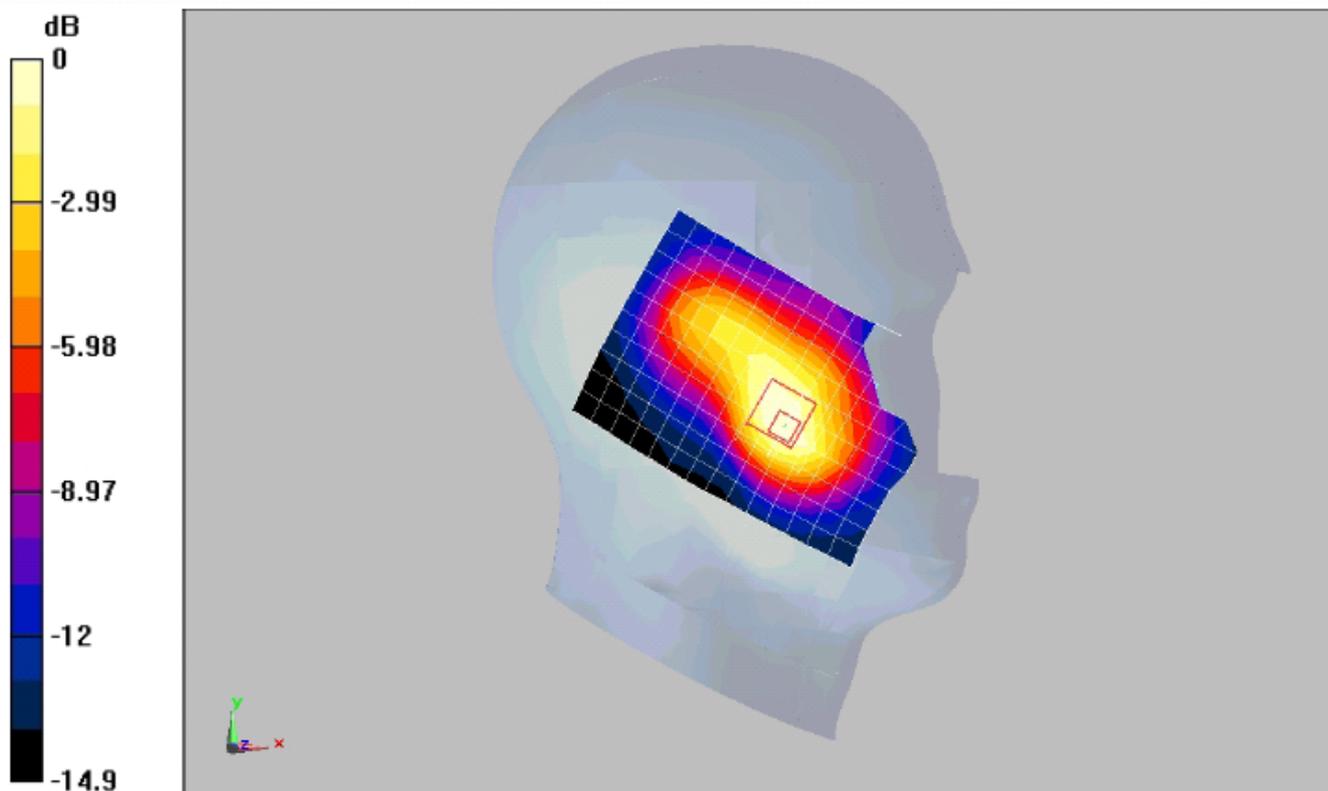
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.268 mW/g

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



0 dB = 0.491mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide tilted 15° -Close-GSM1900

DUT: U3205

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.223 mW/g

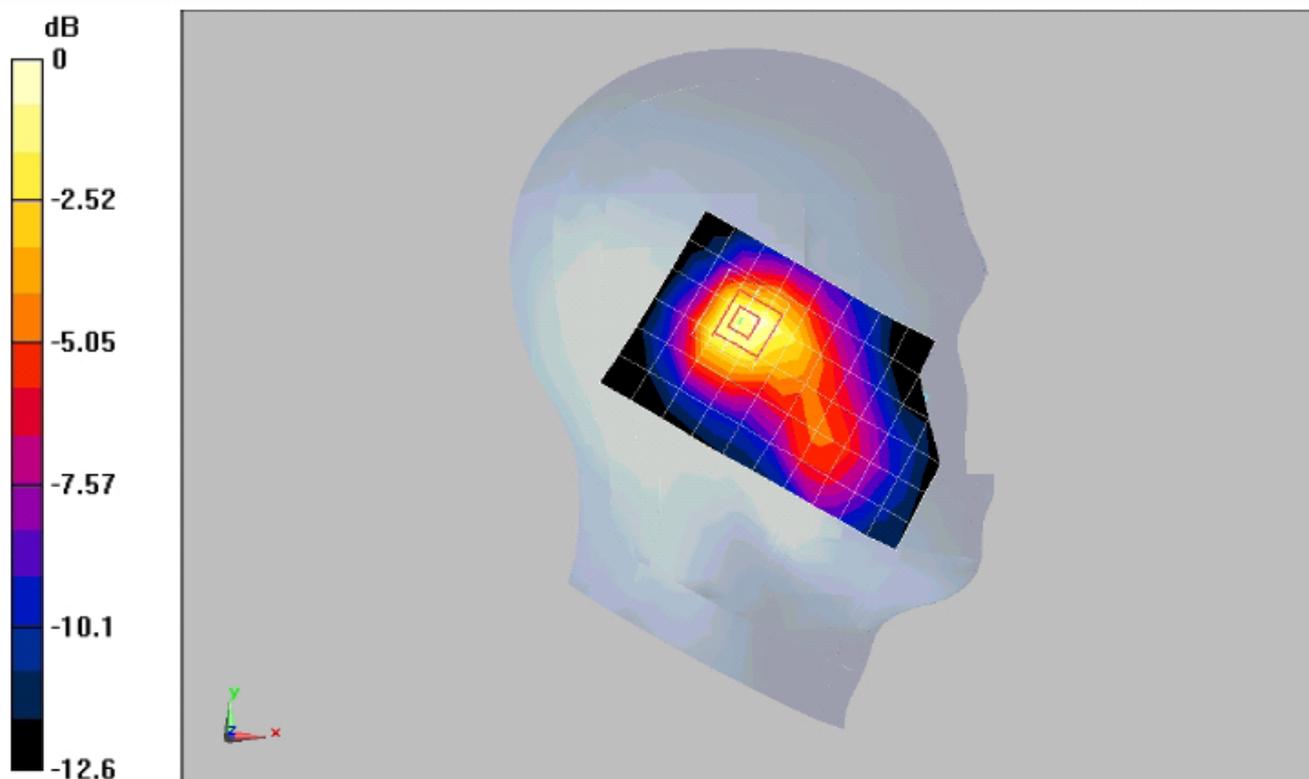
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.246 mW/g



0 dB = 0.246mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide touched-Open-GSM1900

DUT: U3205

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.185 mW/g

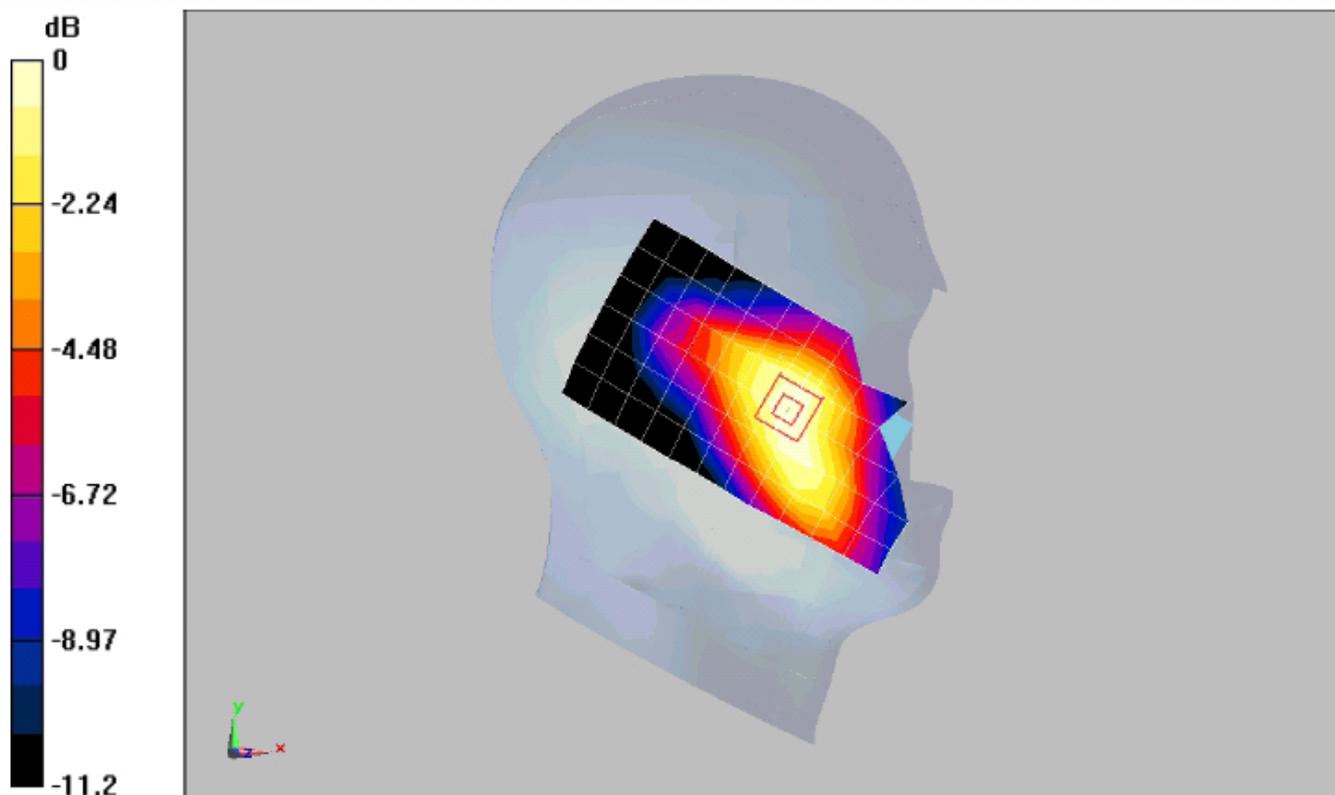
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.62 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.121 mW/g

Maximum value of SAR (measured) = 0.197 mW/g



0 dB = 0.197mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide tilted 15° -Open-GSM1900**DUT: U3205**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.087 mW/g

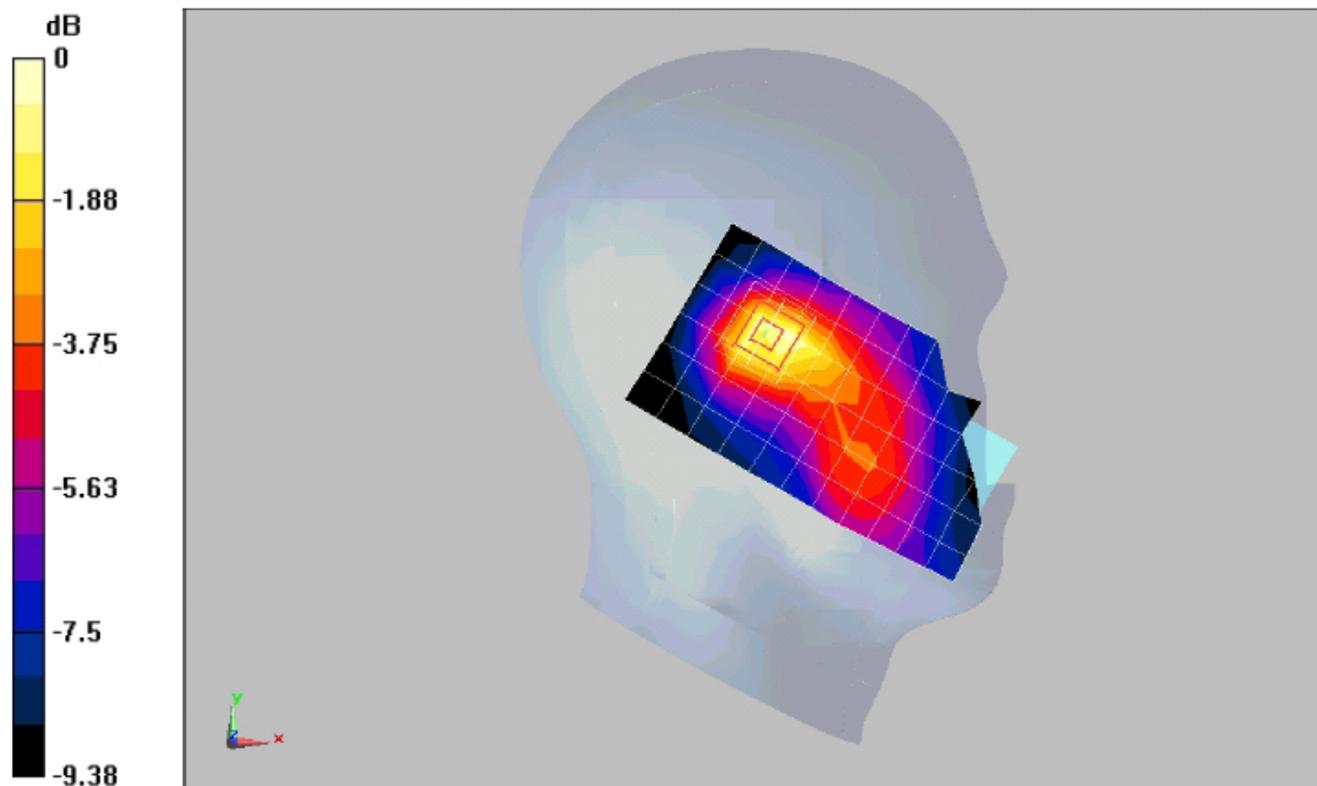
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.59 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.129 W/kg

SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.096 mW/g



0 dB = 0.096mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Close-GSM1900**DUT: U3205**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.433 mW/g

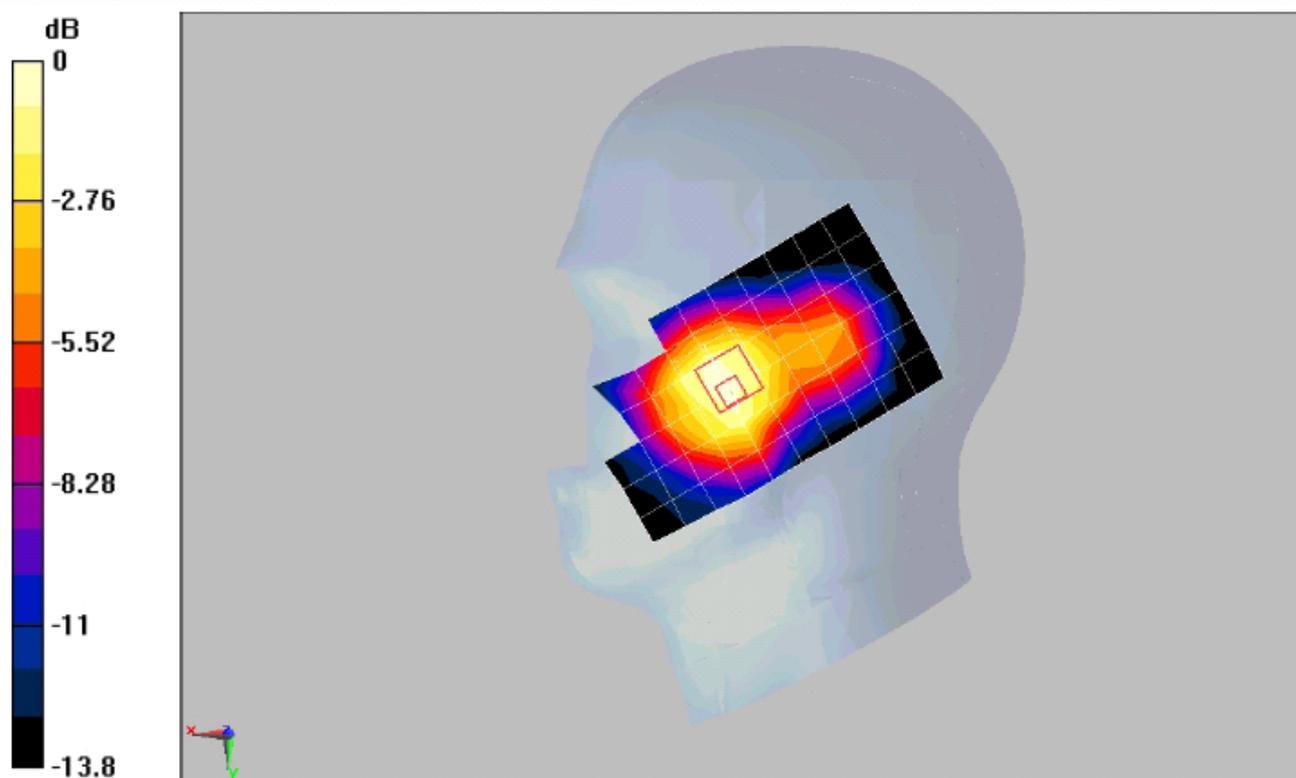
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = -0.159 dB

Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.265 mW/g

Maximum value of SAR (measured) = 0.453 mW/g



0 dB = 0.453mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide tilted 15° -Close-GSM1900

DUT: U3205

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.205 mW/g

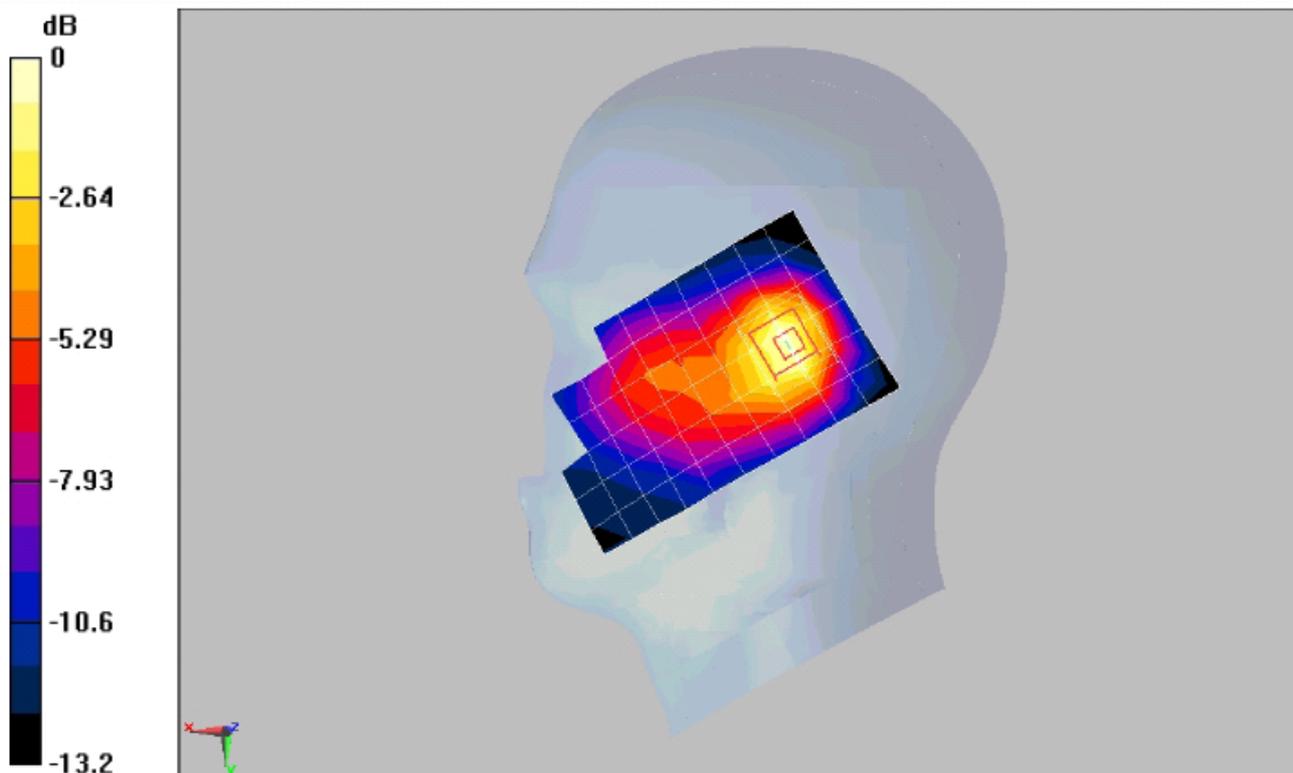
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.120 mW/g

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



0 dB = 0.220mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Open-GSM1900

DUT: U3205

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.211 mW/g

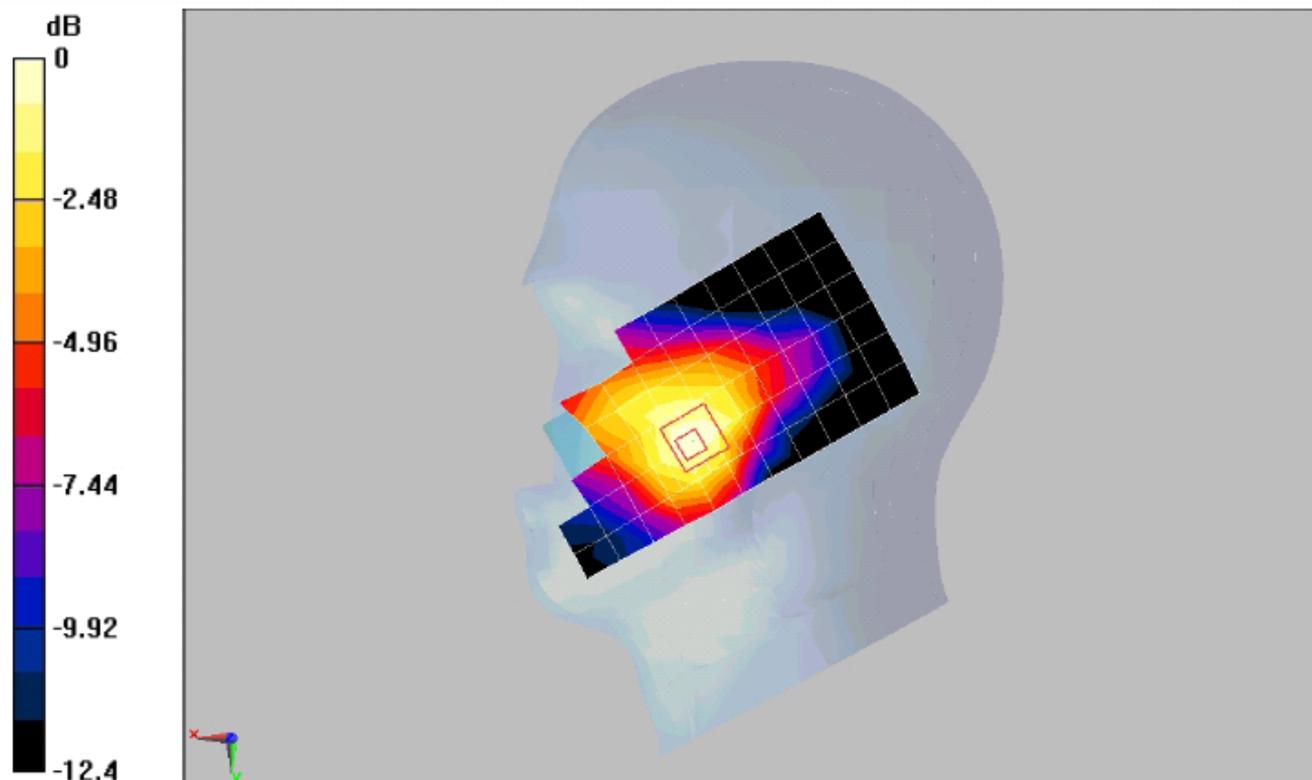
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.94 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 0.284 W/kg

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.215 mW/g



0 dB = 0.215mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide tilted 15° -Open-GSM1900

DUT: U3205

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.073 mW/g

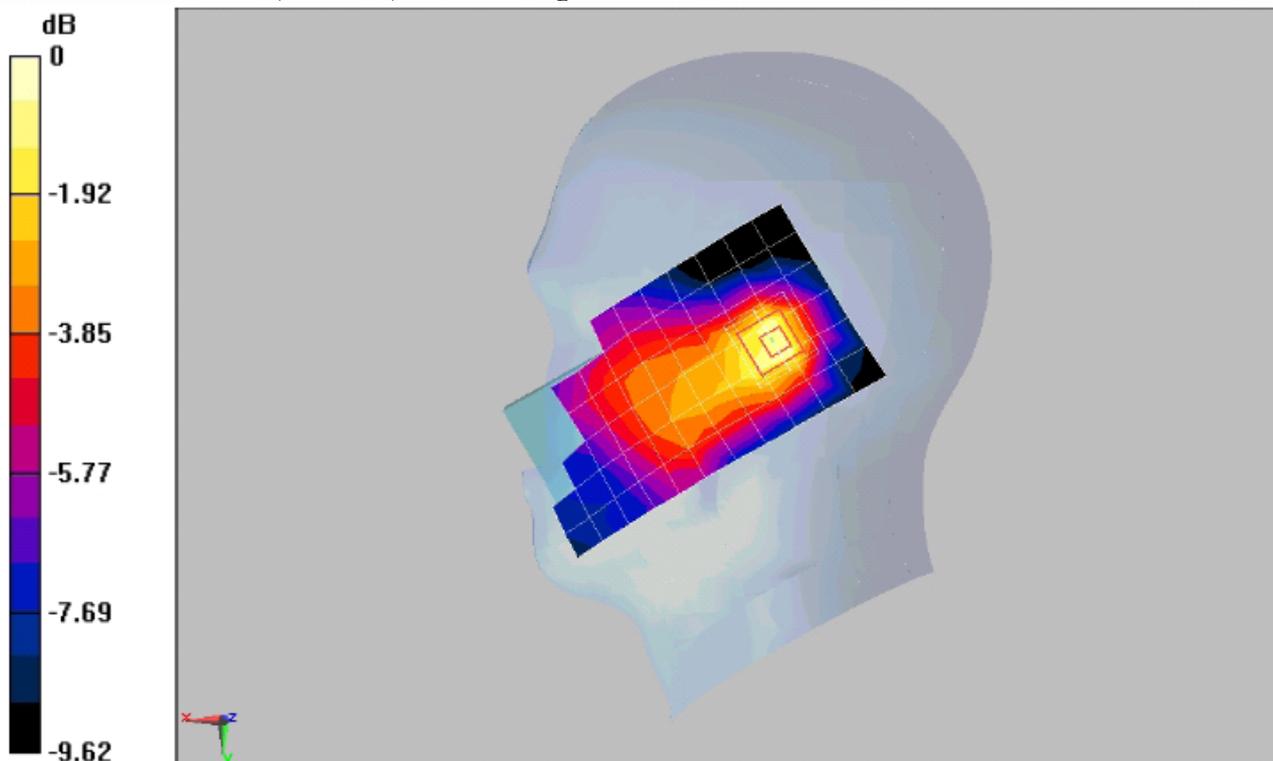
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.54 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.116 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.084 mW/g



0 dB = 0.084mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- LeftHandSide touched –Close-GSM1900

DUT: U3205

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.377 mW/g

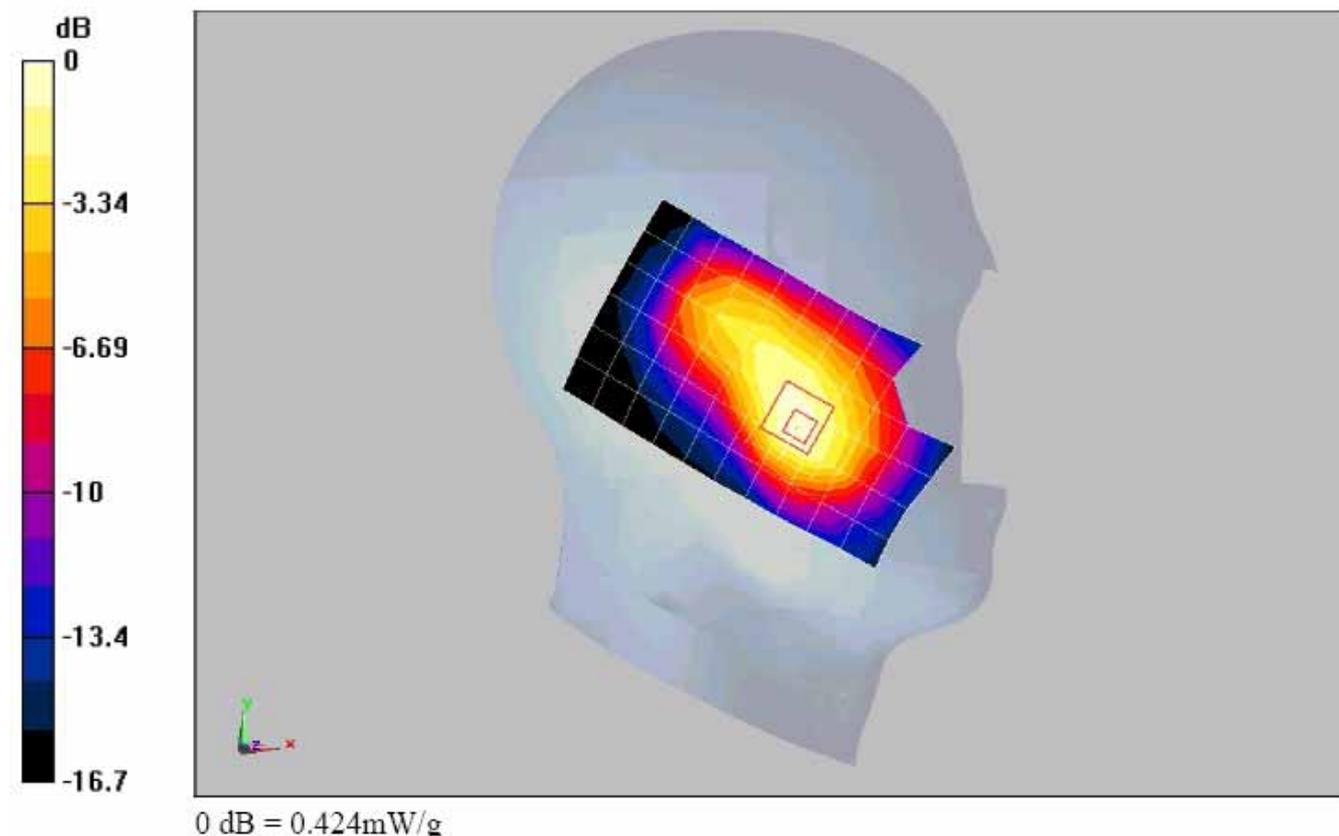
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.54 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.424 mW/g



Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- LeftHandSide touched-Close-GSM1900

DUT: U3205

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.464 mW/g

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

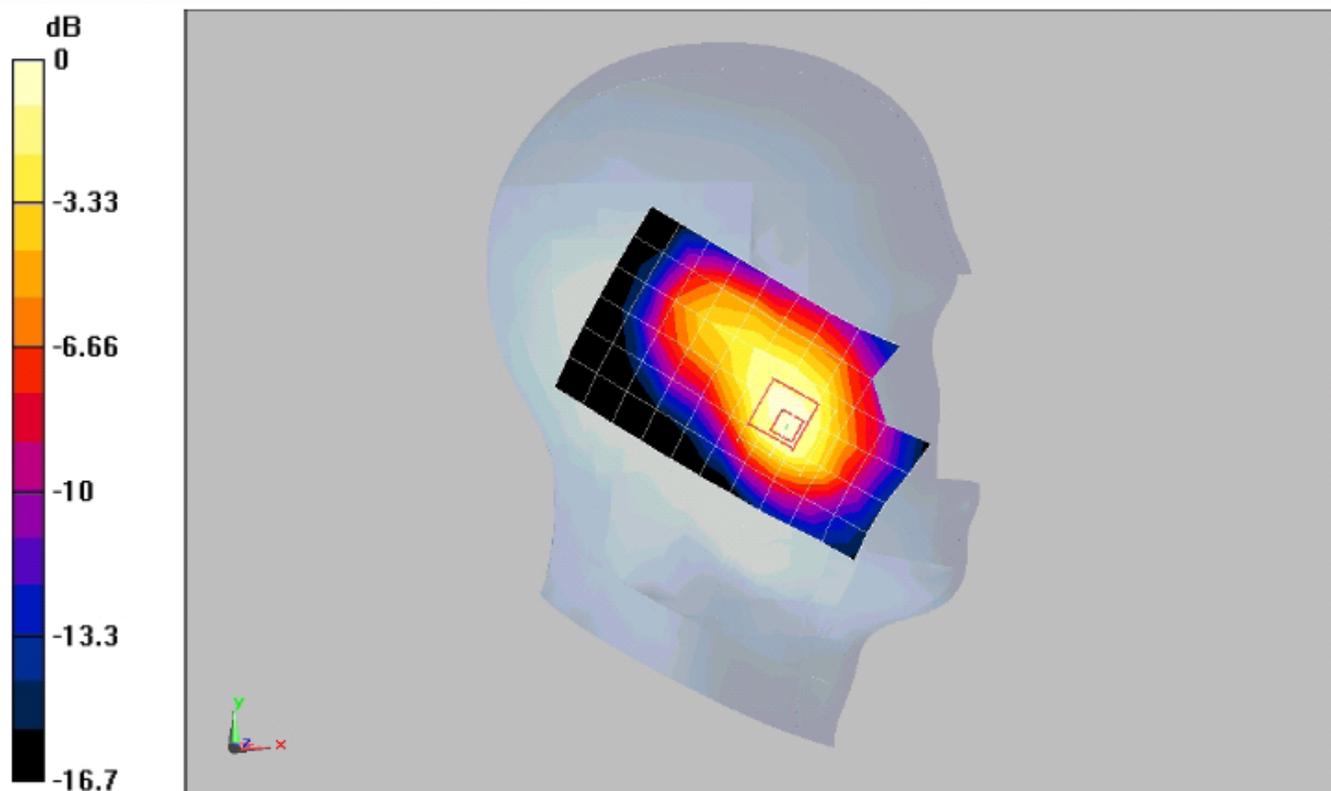
Reference Value = 10.3 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.801 W/kg

SAR(1 g) = 0.487 mW/g; SAR(10 g) = 0.291 mW/g

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

Maximum value of SAR (measured) = 0.538 mW/g



0 dB = 0.538mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2.4 PCS 1900 MHz body

Date/Time: 2009-09-15 21:29:10

P1528_OET65_EN62209-GSM1900 GPRS 2TS towards phantom-Close

DUT: U3205

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.207 mW/g

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

Reference Value = 9.48 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.221 mW/g

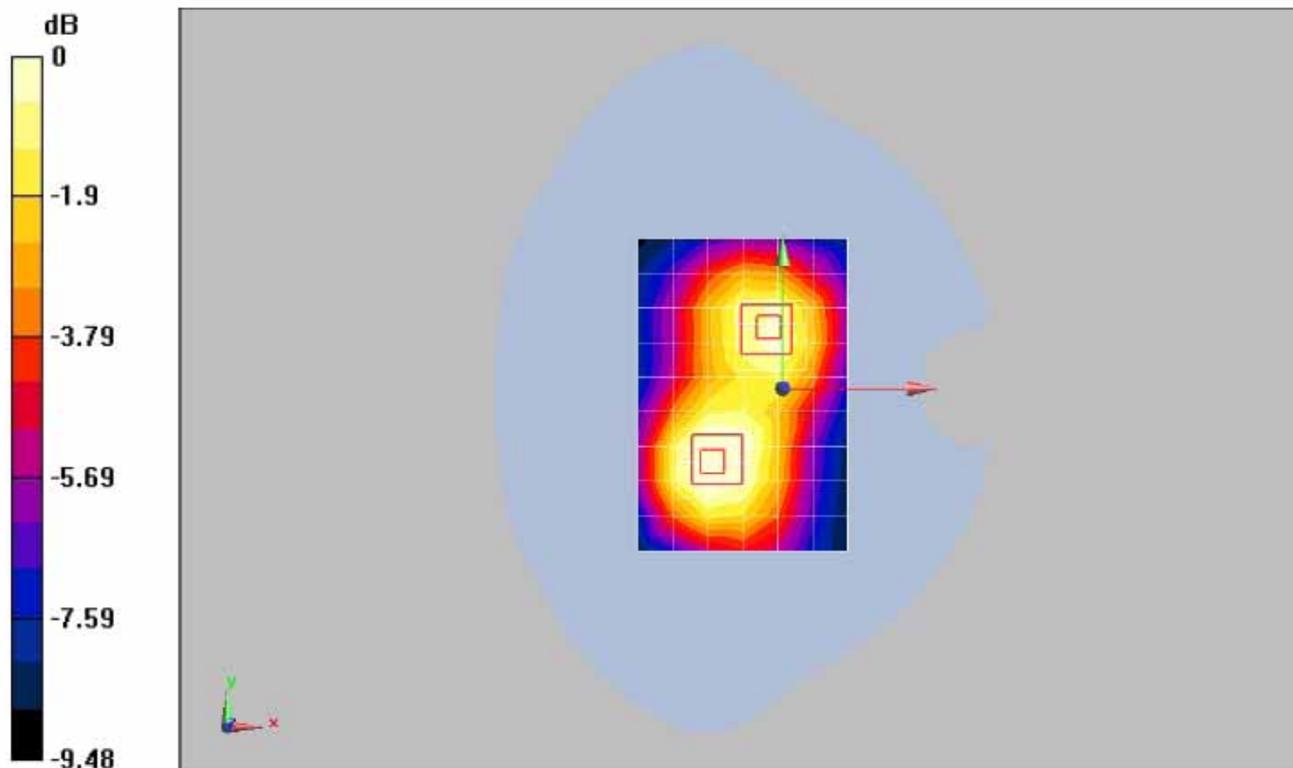
Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.48 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.115 mW/g

Maximum value of SAR (measured) = 0.188 mW/g



0 dB = 0.188mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-GSM1900 GPRS 2TS towards phantom-Open

DUT: U3205

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.319 mW/g

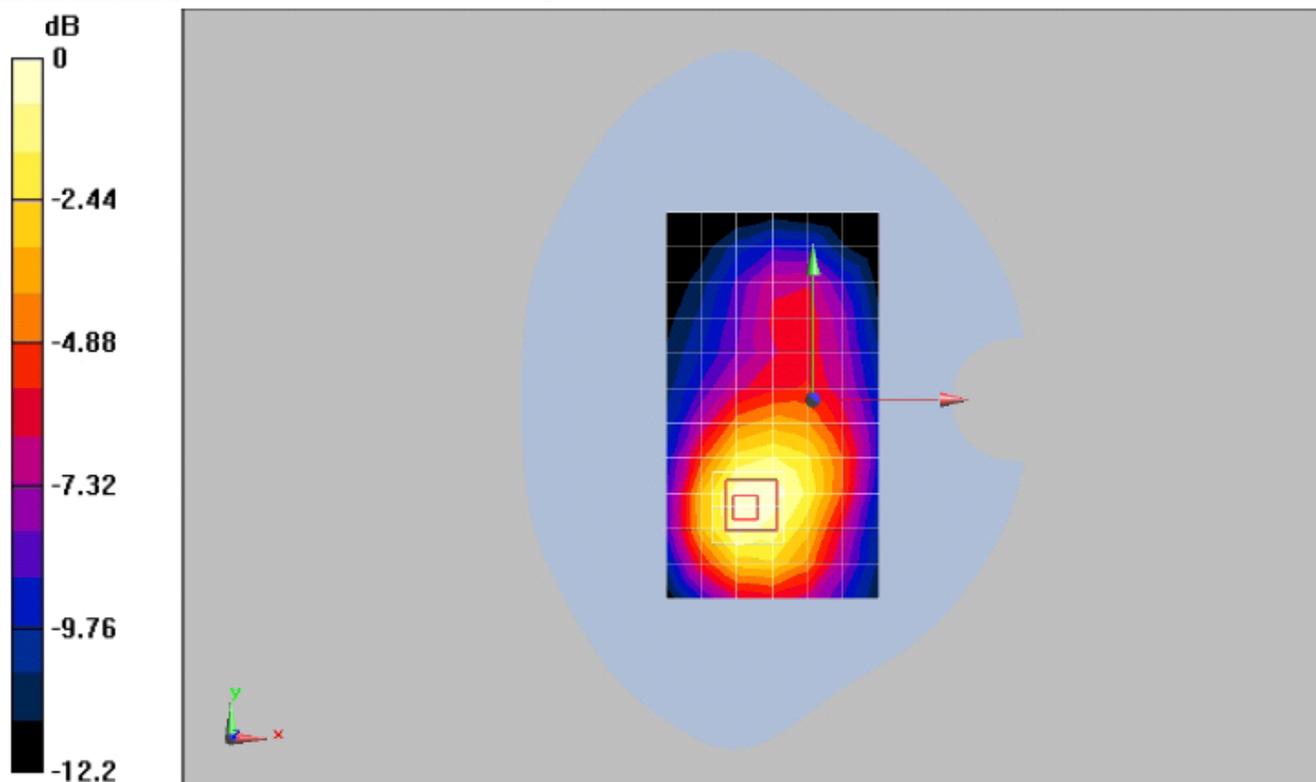
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.66 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.202 mW/g

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



0 dB = 0.343mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-GSM1900 GPRS 2TS towards ground-Close

DUT: U3205

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.673 mW/g

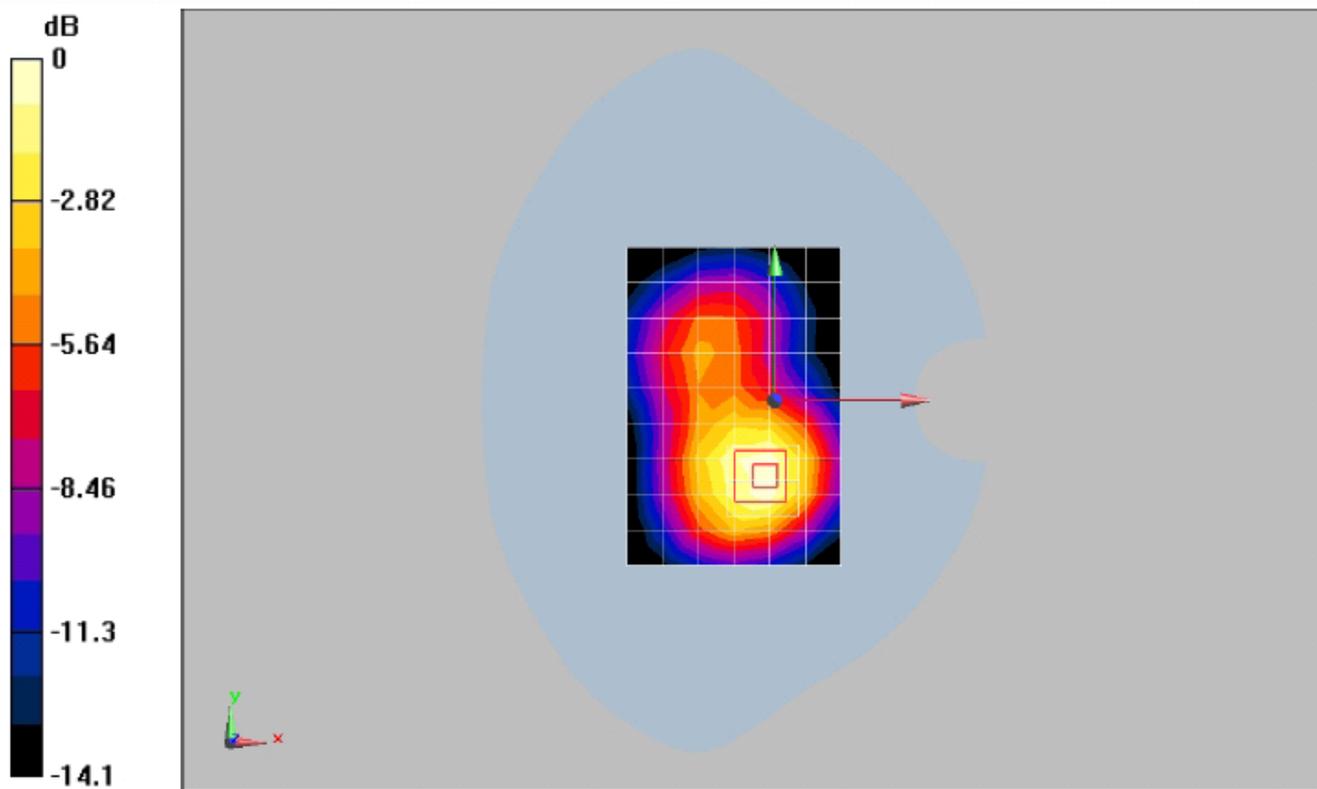
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.407 mW/g

Maximum value of SAR (measured) = 0.729 mW/g



0 dB = 0.729mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-GSM1900 GPRS 2TS towards ground-Open

DUT: U3205

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.659 mW/g

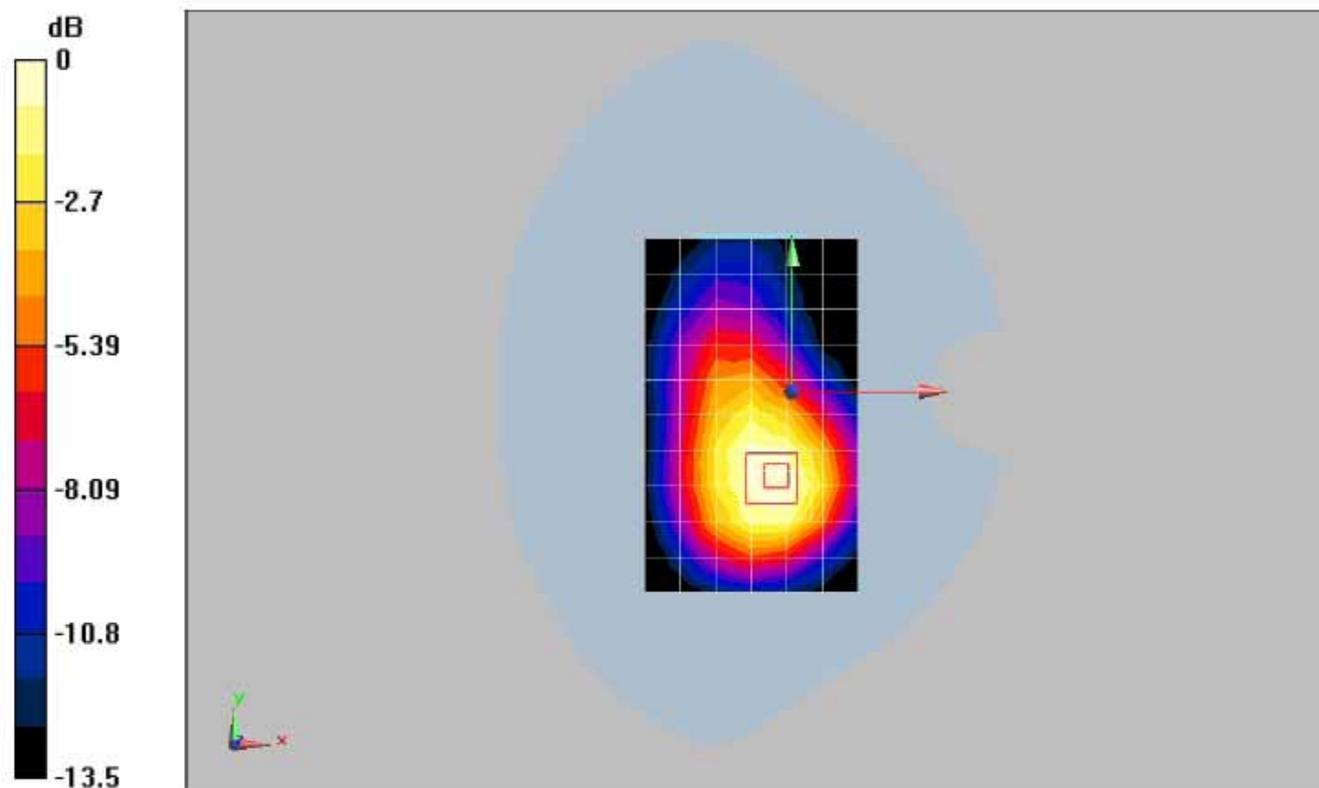
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.3 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.396 mW/g

Maximum value of SAR (measured) = 0.675 mW/g



0 dB = 0.675mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-GSM1900 GPRS 2TS towards ground-Close

DUT: U3205

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.1

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.683 mW/g

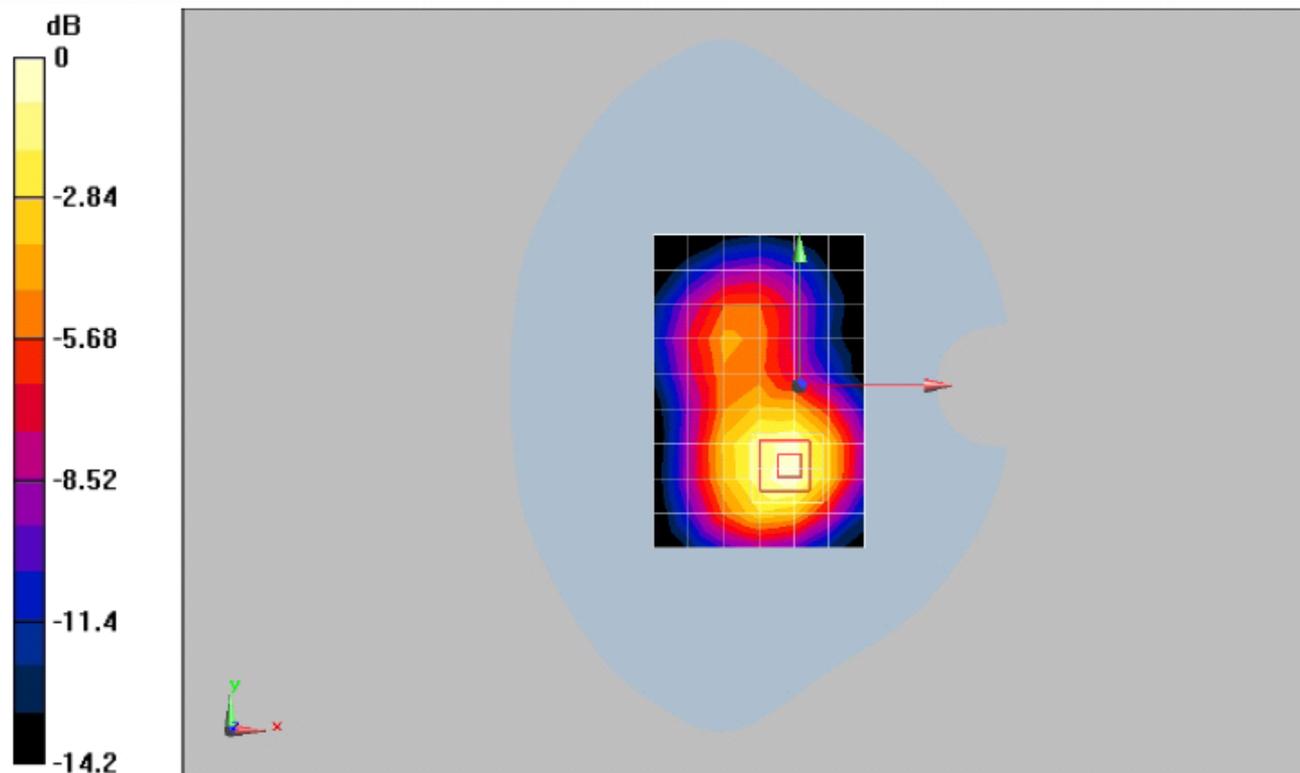
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.658 mW/g; SAR(10 g) = 0.395 mW/g

Maximum value of SAR (measured) = 0.714 mW/g



0 dB = 0.714mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-GSM1900 GPRS 2TS towards ground-Close

DUT: U3205

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.755 mW/g

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

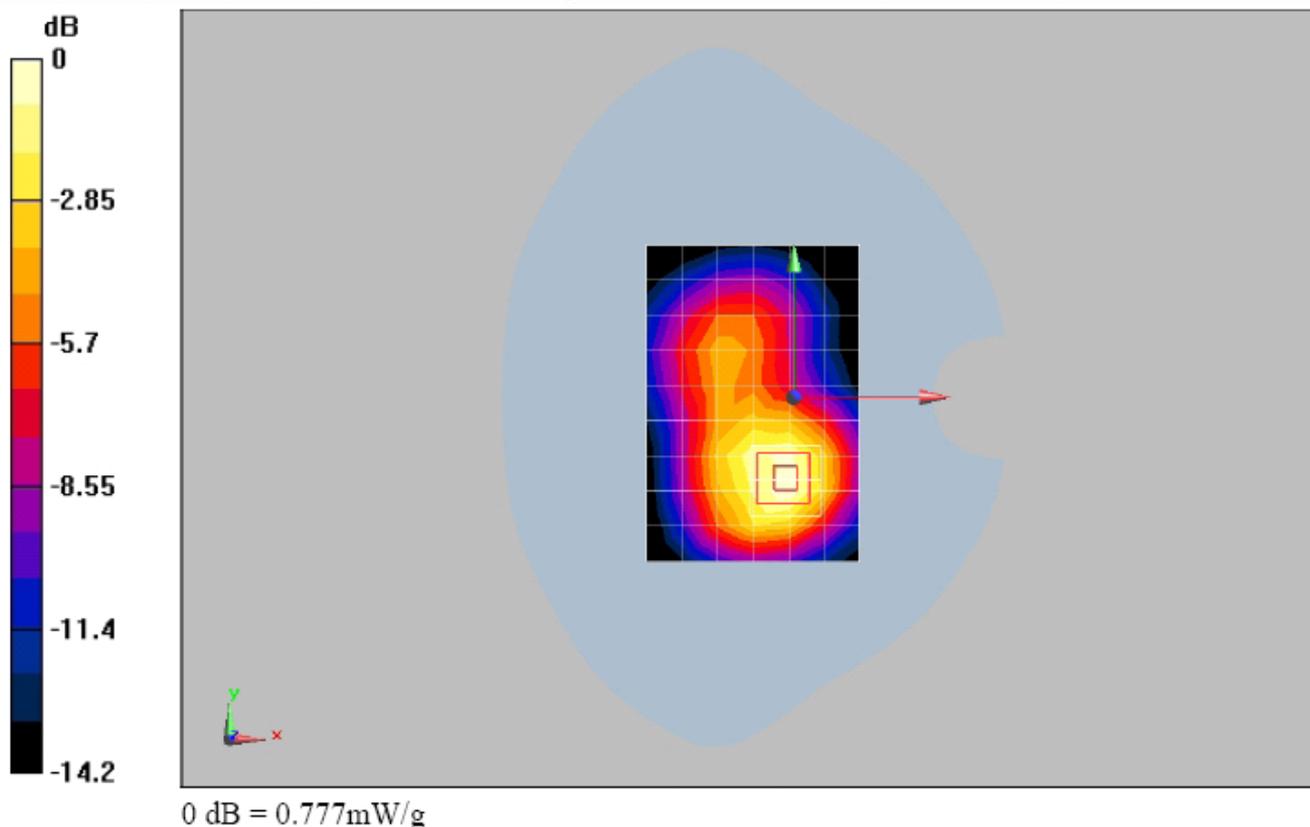
Reference Value = 13.6 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.713 mW/g; SAR(10 g) = 0.429 mW/g

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

Maximum value of SAR (measured) = 0.777 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: 22.3°C

P1528_OET65_EN62209-GSM1900 EGPRS 2TS towards ground-Close

DUT: U3205

Communication System: PCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.228 mW/g

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

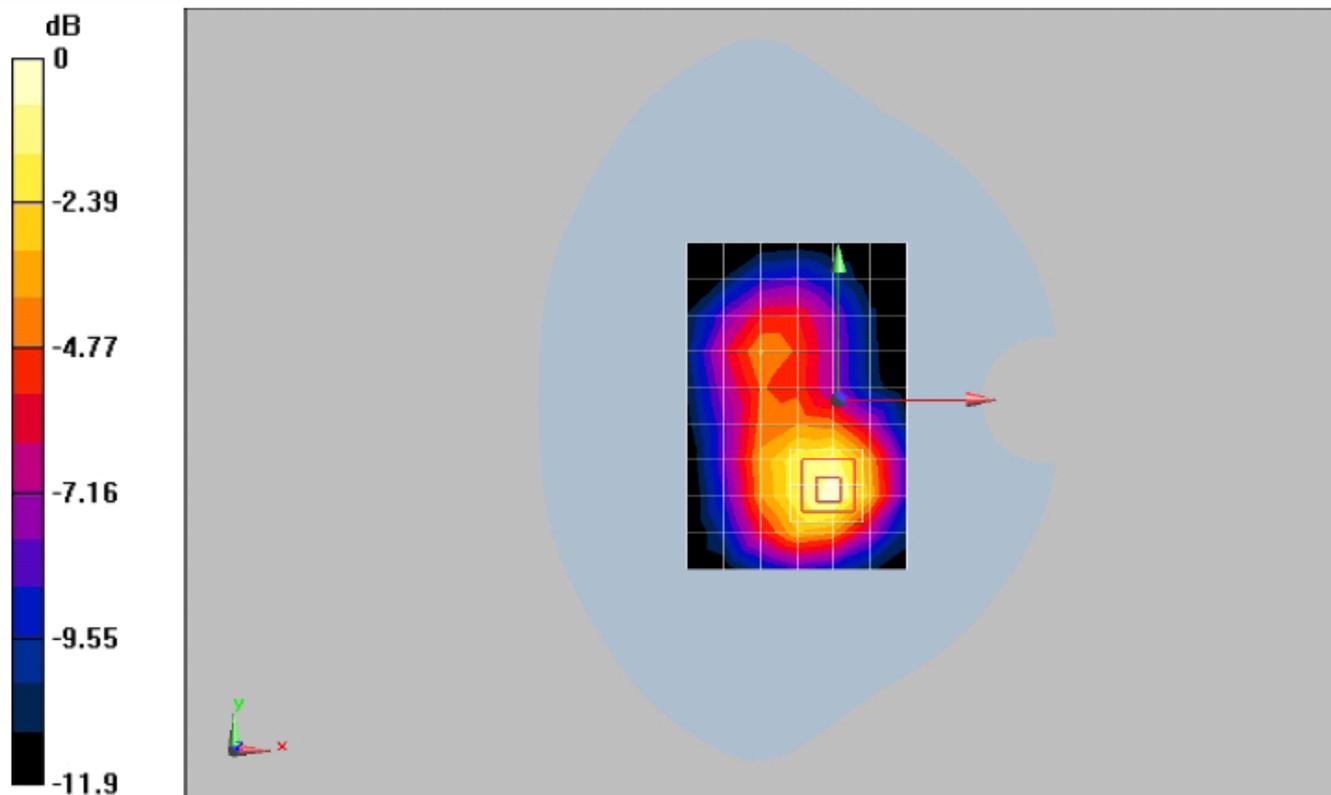
Reference Value = 7.11 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.124 mW/g

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

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



0 dB = 0.235mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- GSM1900 towards ground with Headset-Close

DUT: U3205

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

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

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

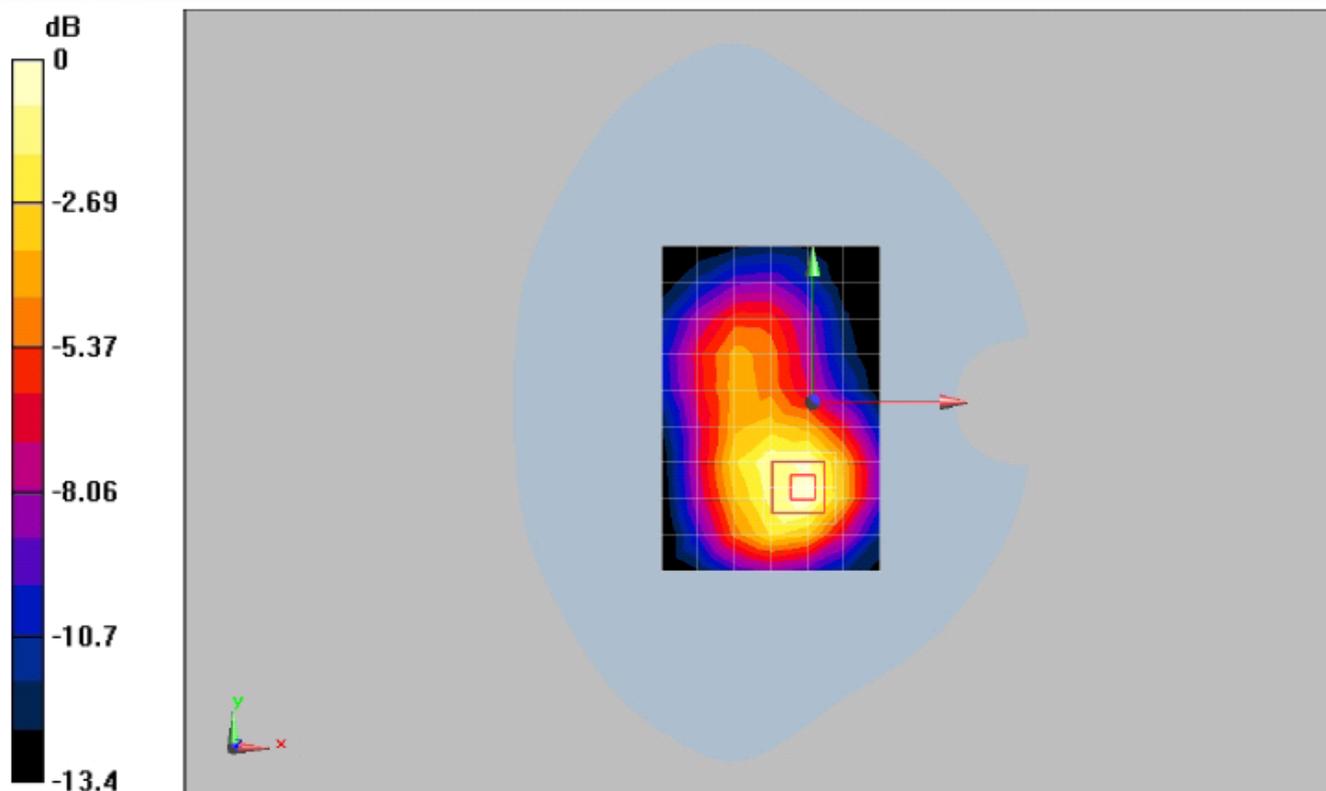
Reference Value = 10.4 V/m; Power Drift = -0.00617 dB

Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.231 mW/g

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

Maximum value of SAR (measured) = 0.414 mW/g



0 dB = 0.414mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- GSM1900 towards ground with Bluetooth Headset-Close

DUT: U3205

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.412 mW/g

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

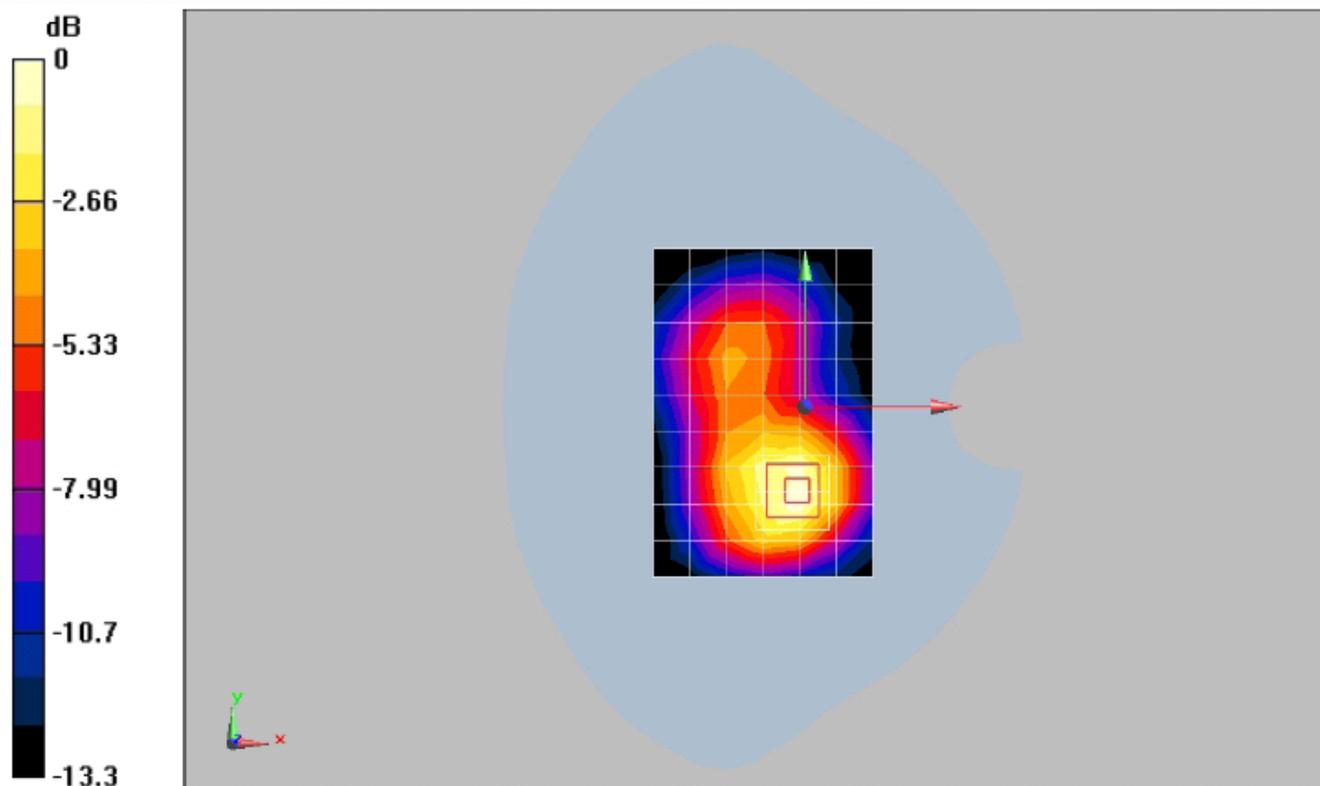
Reference Value = 9.84 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 0.632 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.236 mW/g

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

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



0 dB = 0.427mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2.5 UMTS (WCDMA) FDD V 850MHz head

Date/Time: 2009-09-11 04:40:32

P1528_OET65_EN62209-LeftHandSide touched-Close-WCDMA FDD V

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

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

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

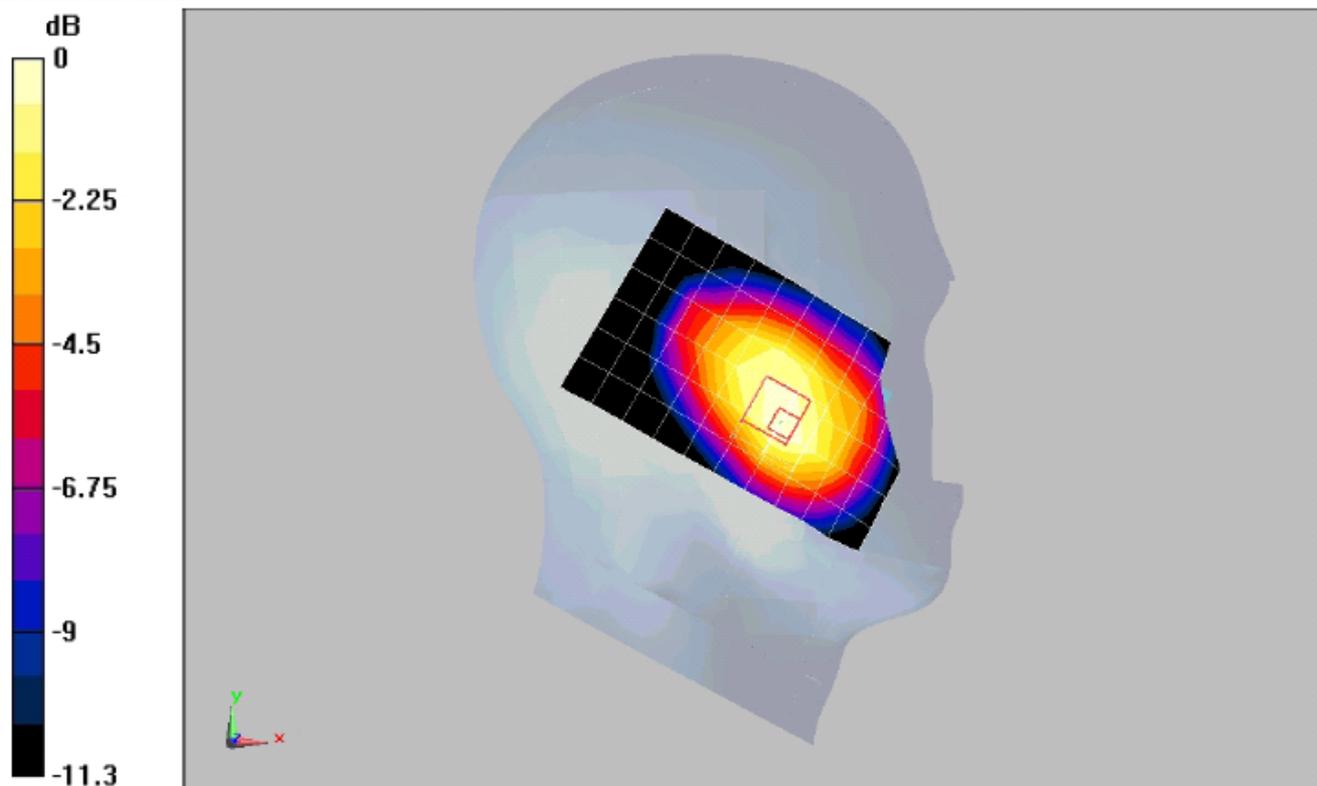
Reference Value = 11.3 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.507 W/kg

SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.249 mW/g

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

Maximum value of SAR (measured) = 0.381 mW/g



0 dB = 0.381mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide tilted 15°-Close- WCDMA FDD V

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (10x15x1): Measurement grid: dx=10mm, dy=10mm

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

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

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

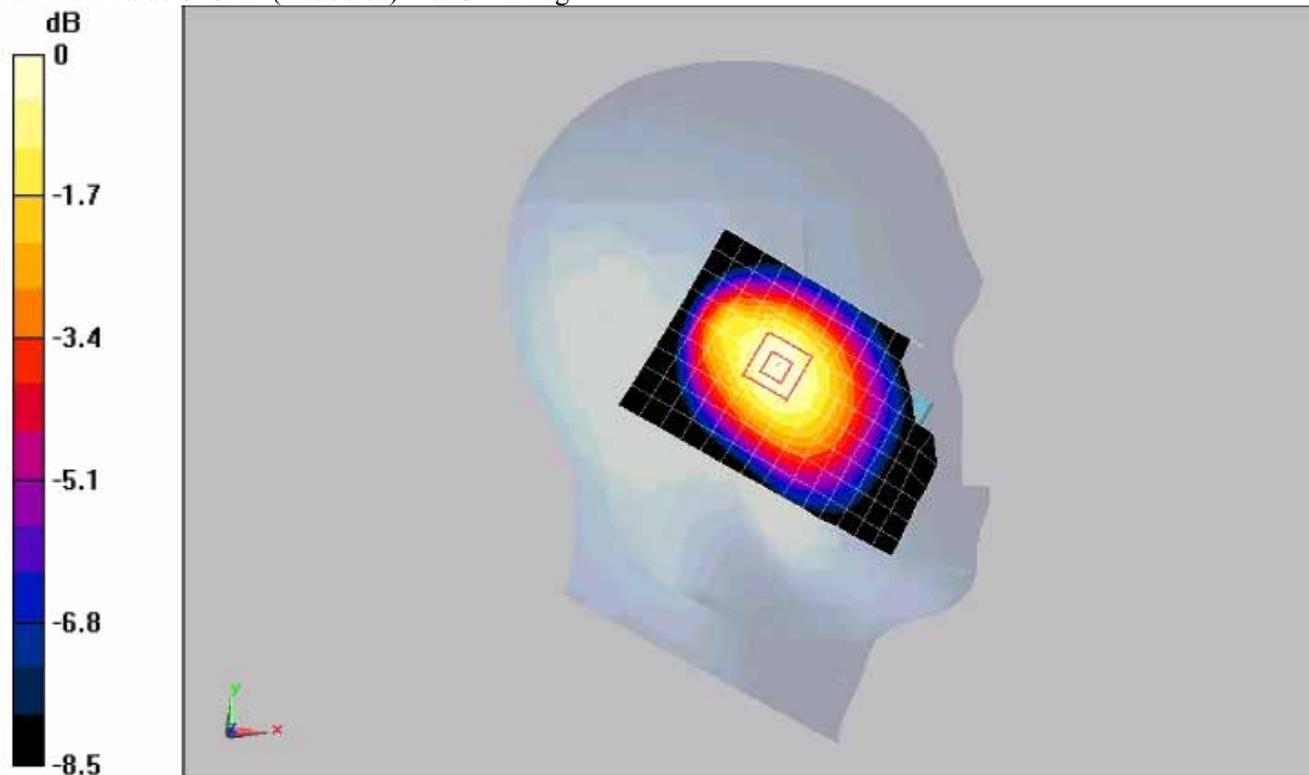
Reference Value = 15.1 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.209 mW/g

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

Maximum value of SAR (measured) = 0.294 mW/g



0 dB = 0.294mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide touched-Open-WCDMA FDD V

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.336 mW/g

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

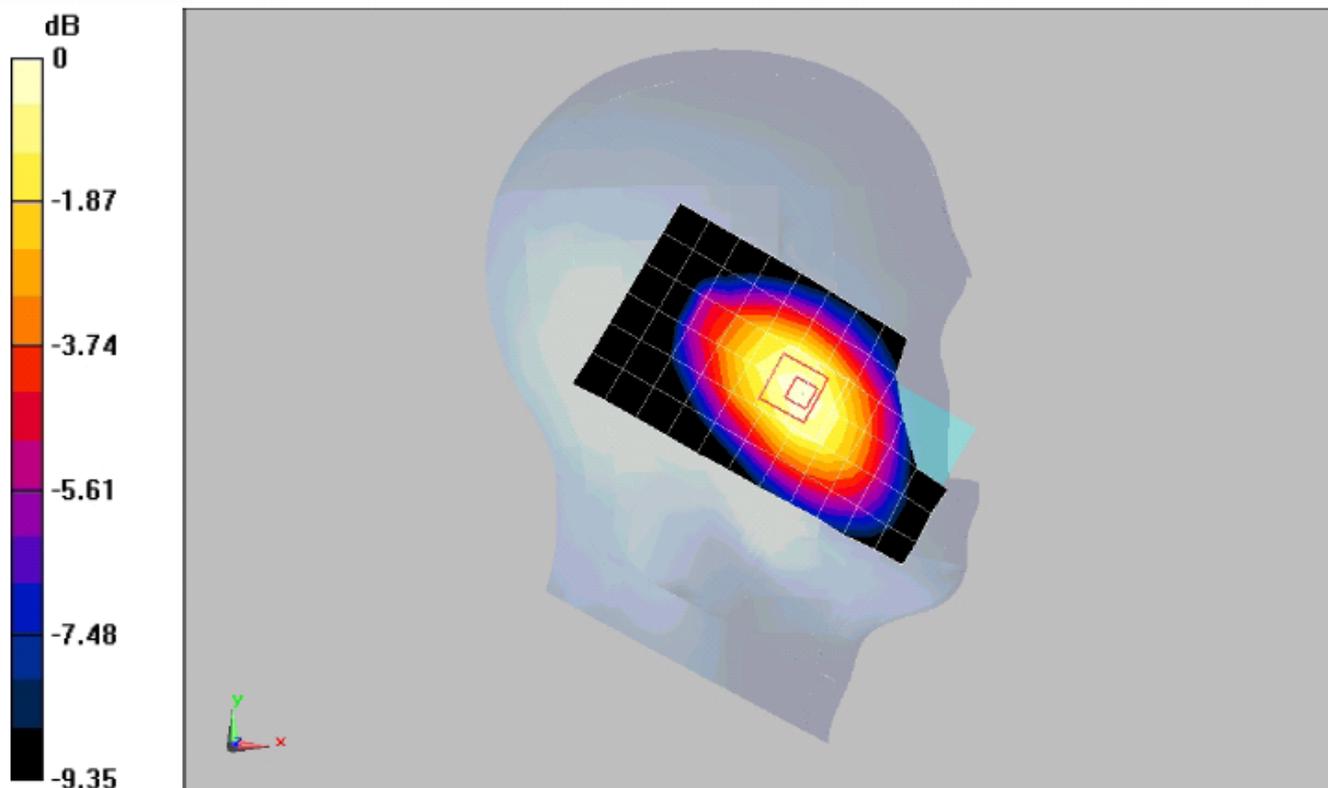
Reference Value = 10.9 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.246 mW/g

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

Maximum value of SAR (measured) = 0.348 mW/g



0 dB = 0.348mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide tilted 15° -Open-WCDMA FDD V

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.269 mW/g

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

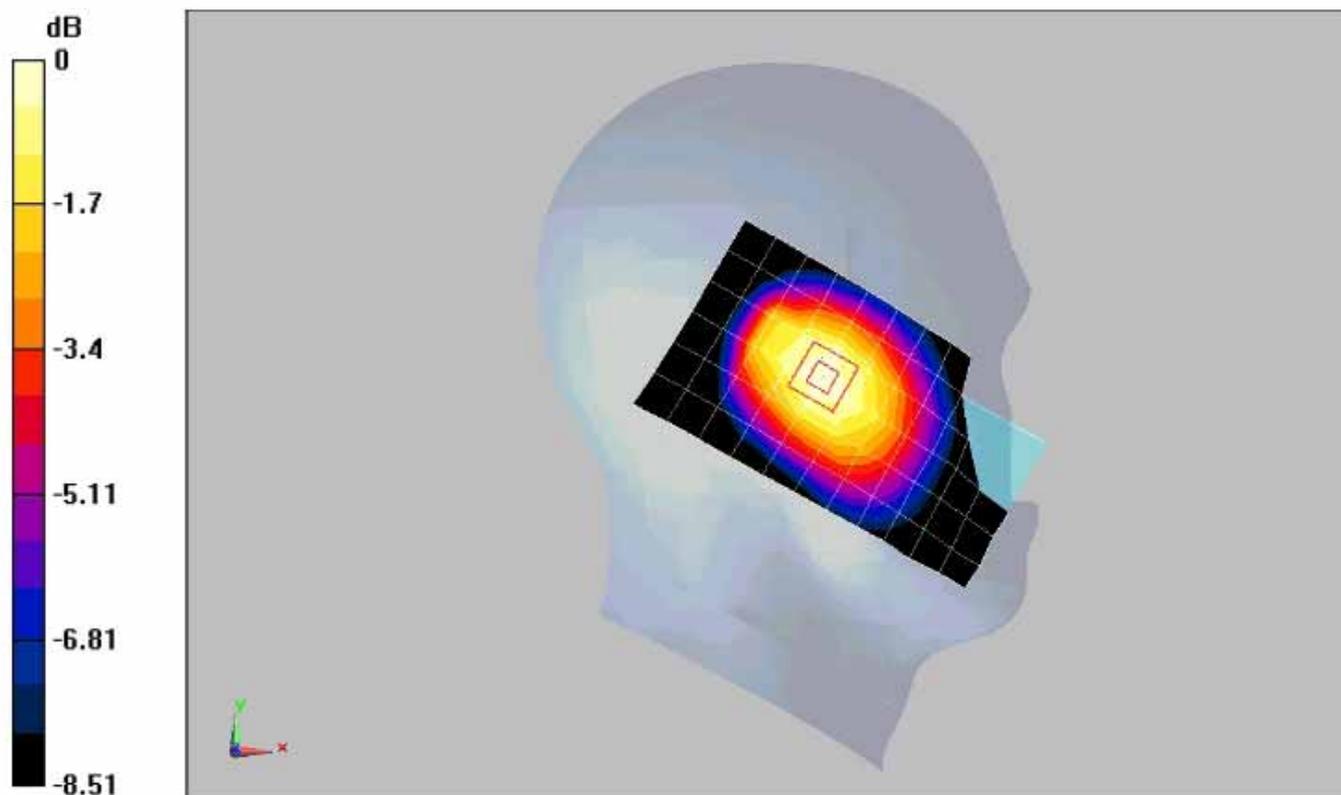
Reference Value = 14.5 V/m; Power Drift = -0.00601 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.190 mW/g

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

Maximum value of SAR (measured) = 0.270 mW/g



0 dB = 0.270mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Close-WCDMA FDD V

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.335 mW/g

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

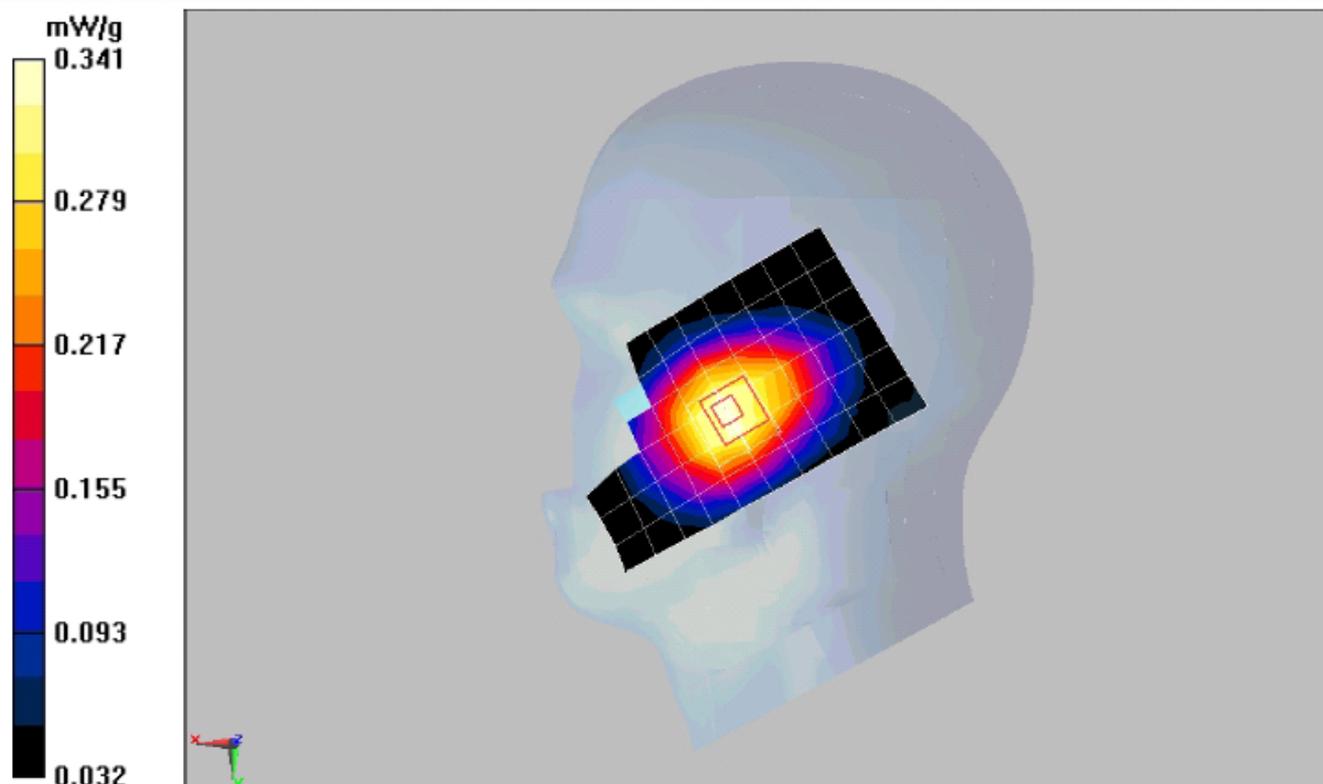
Reference Value = 11.9 V/m; Power Drift = 0.082 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.253 mW/g

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

Maximum value of SAR (measured) = 0.341 mW/g



Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide tilted 15° -Close-WCDMA FDD V**DUT: U3205**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.270 mW/g

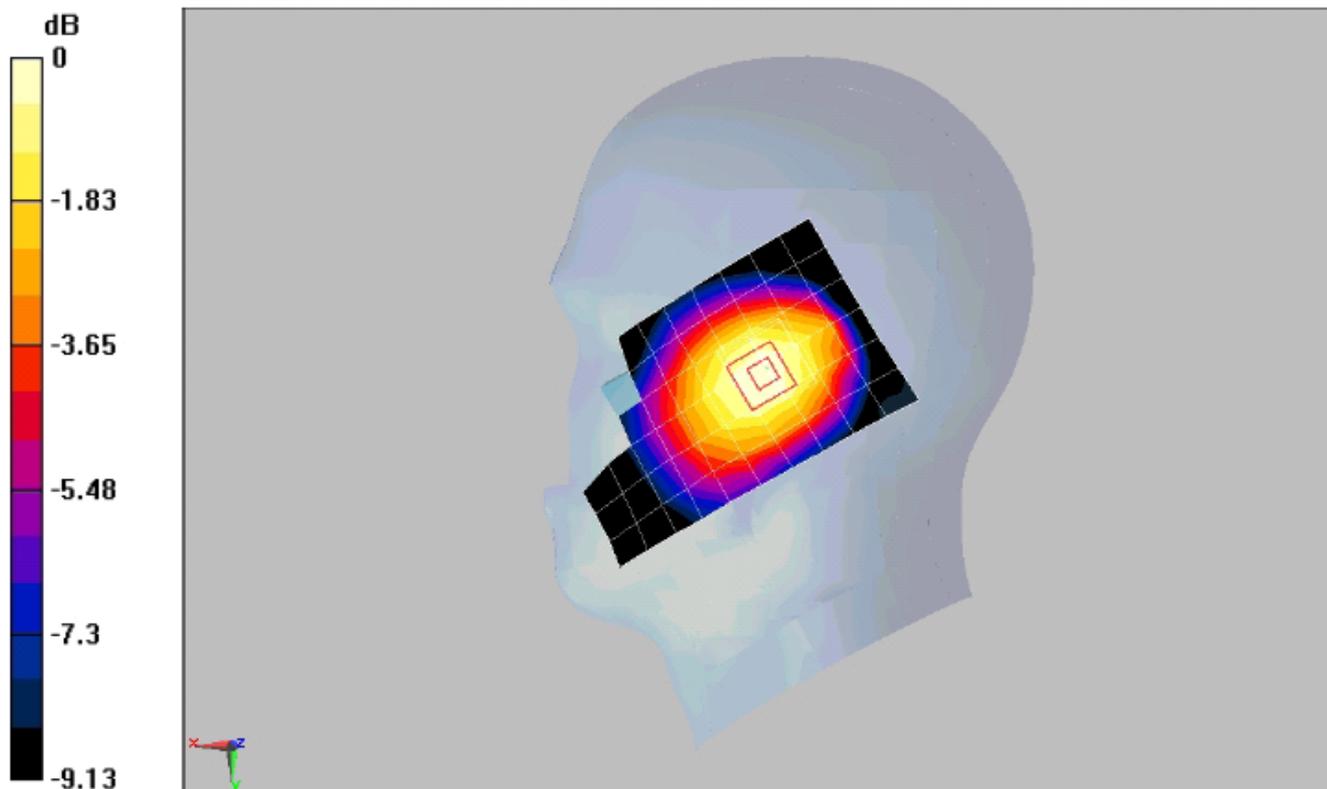
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.8 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.198 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.277 mW/g



0 dB = 0.277mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Open-WCDMA FDD V**DUT: U3205**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.347 mW/g

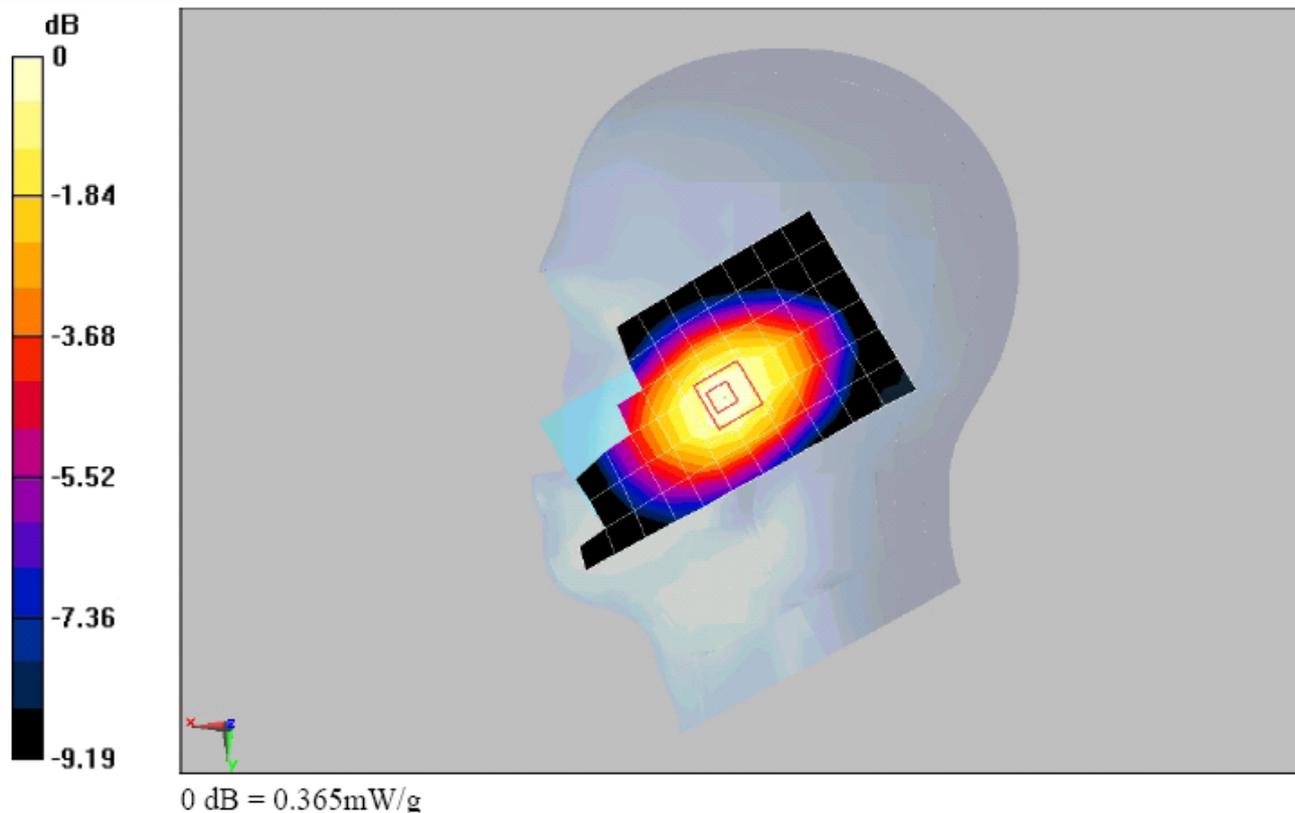
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.414 W/kg

SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.265 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: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide tilted 15° -Open-WCDMA FDD V

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.253 mW/g

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

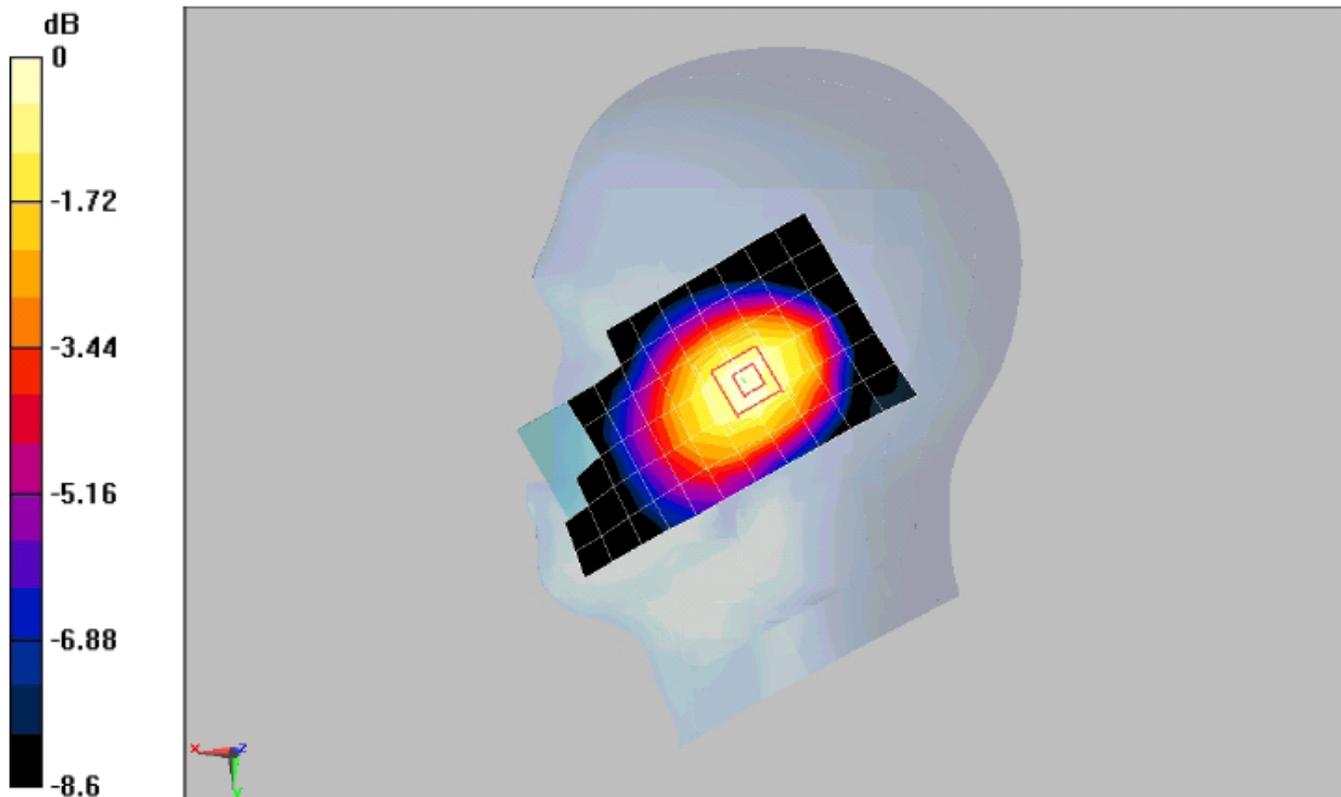
Reference Value = 14.3 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.189 mW/g

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

Maximum value of SAR (measured) = 0.267 mW/g



0 dB = 0.267mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide touched-Close-WCDMA FDD V**DUT: U3205**

Communication System: WCDMA850; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.387 mW/g

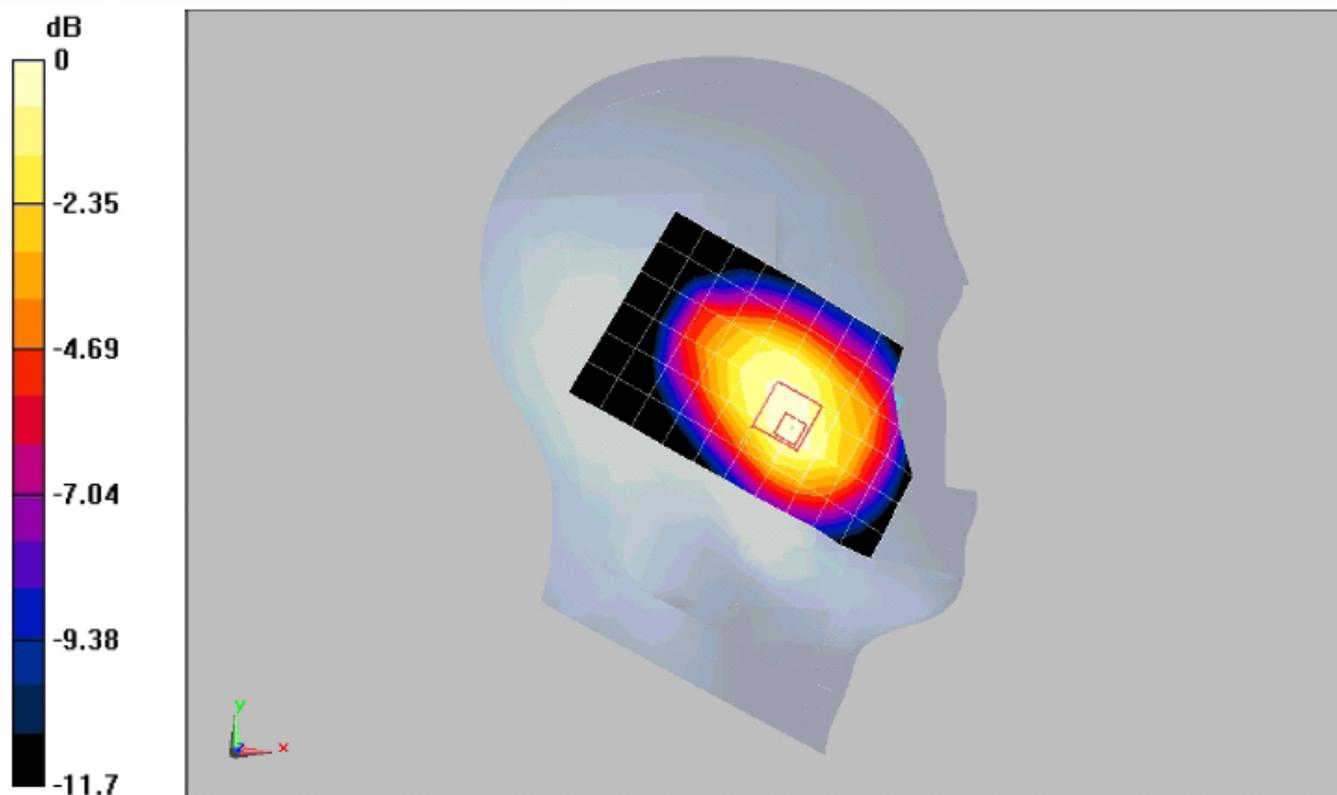
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 0.512 W/kg

SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.253 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.386 mW/g



0 dB = 0.386mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide touched-Close-WCDMA FDD V

DUT: U3205

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.906$ mho/m; $\epsilon_r = 43.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

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

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

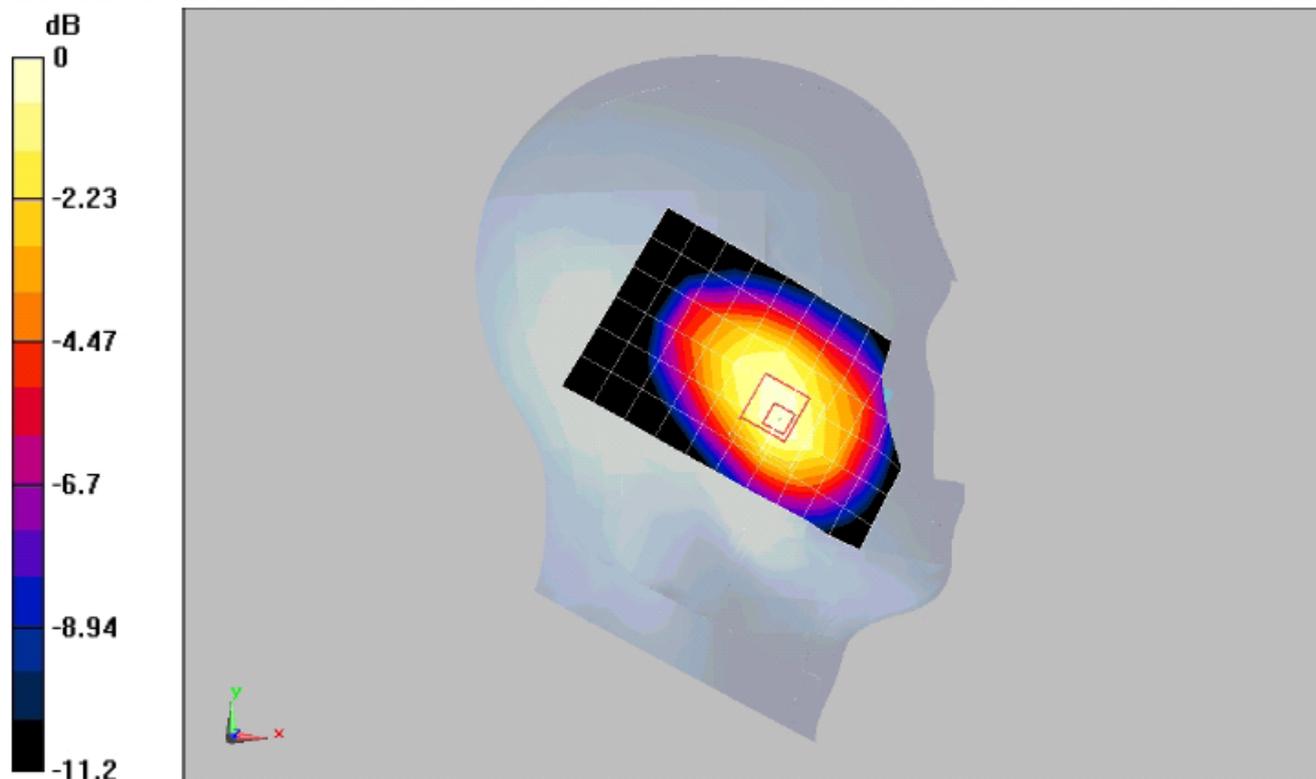
Reference Value = 11.6 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 0.467 W/kg

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.239 mW/g

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

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



0 dB = 0.360mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2.6 UMTS (WCDMA) FDD V 850MHz body

Date/Time: 2009-09-12 03:41:20

P1528_OET65_EN62209- WCDMA FDD V towards phantom-Close

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.248 mW/g

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

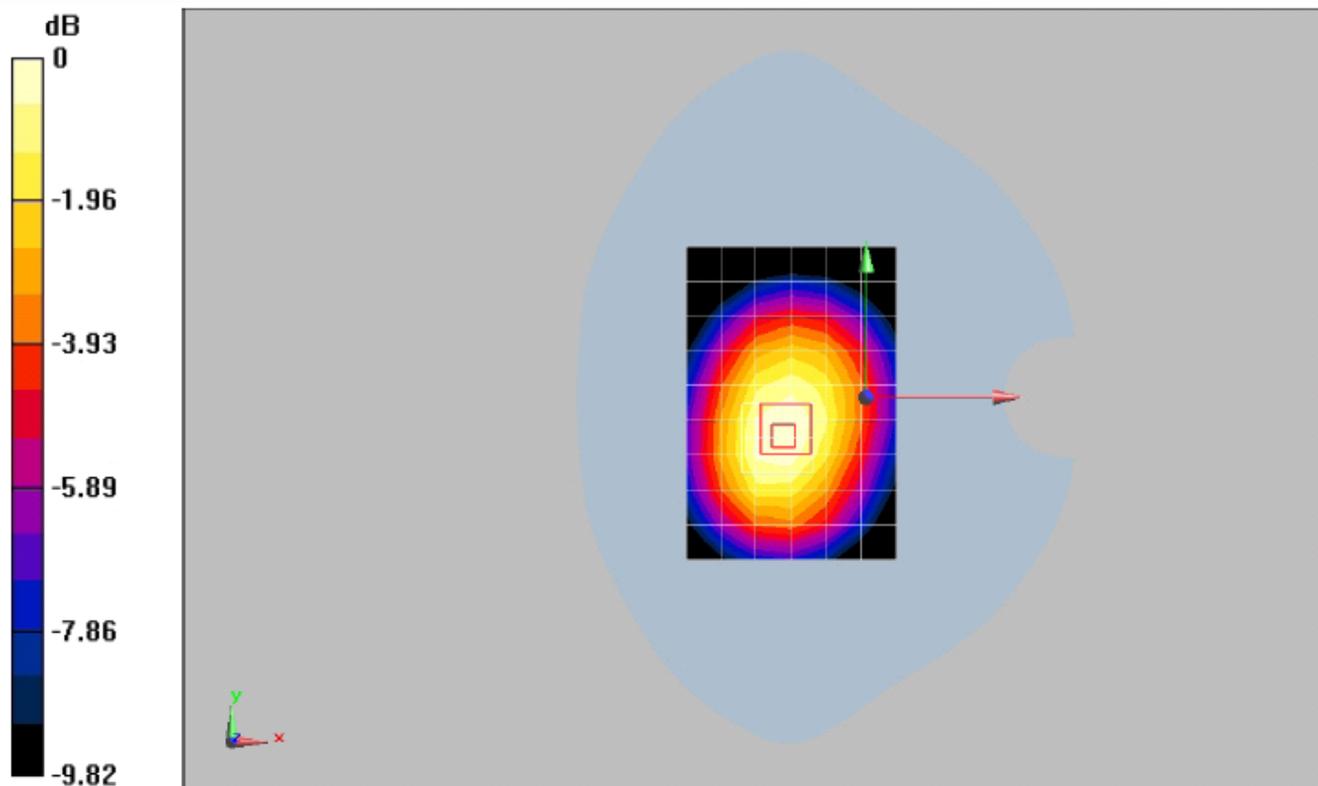
Reference Value = 14 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.314 W/kg

SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.176 mW/g

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

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



0 dB = 0.254mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards phantom-Open

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.438 mW/g

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

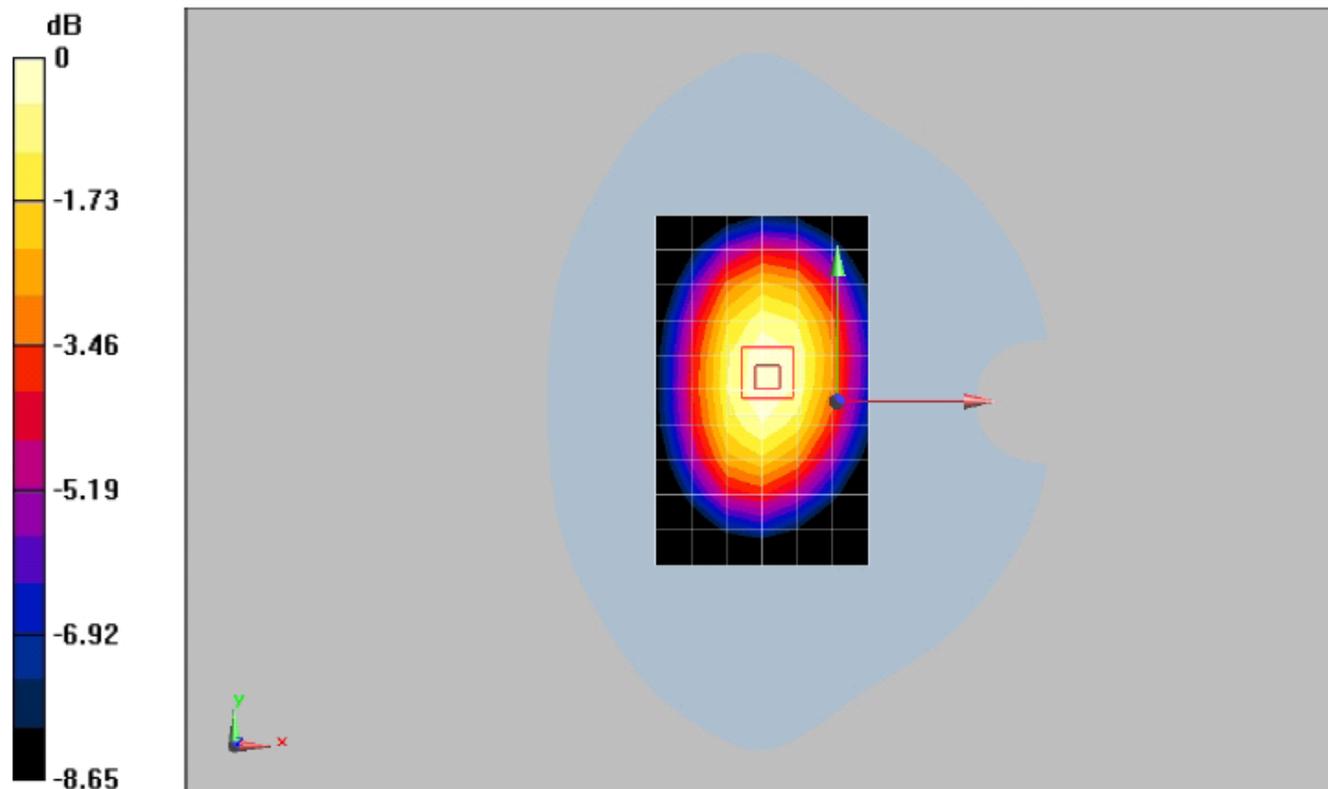
Reference Value = 19.6 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.418 mW/g; SAR(10 g) = 0.312 mW/g

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

Maximum value of SAR (measured) = 0.442 mW/g



0 dB = 0.442mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards ground-Close

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

Maximum value of SAR (measured) = 0.584 mW/g

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

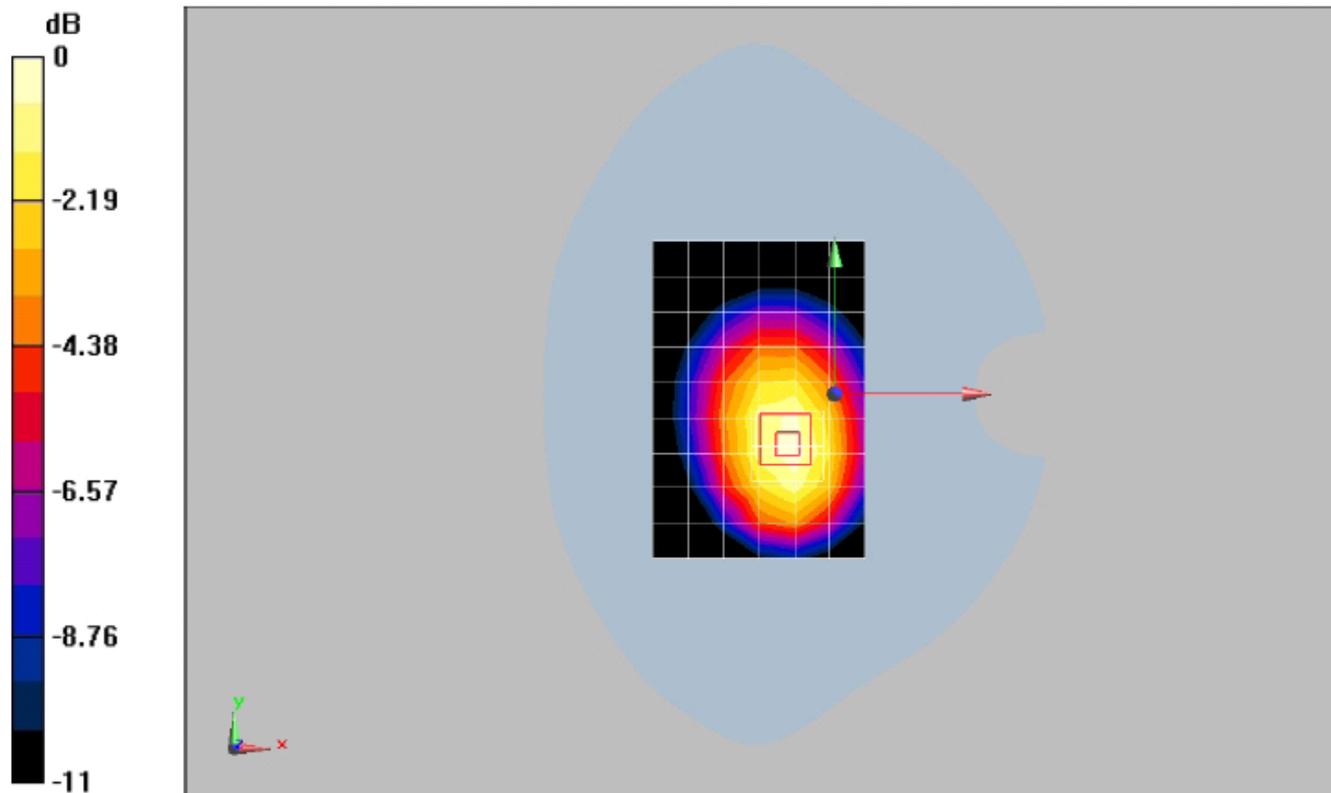
Reference Value = 21.4 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.763 W/kg

SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.394 mW/g

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

Maximum value of SAR (measured) = 0.605 mW/g



0 dB = 0.605mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards ground-Open

DUT: U3205

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.590 mW/g

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

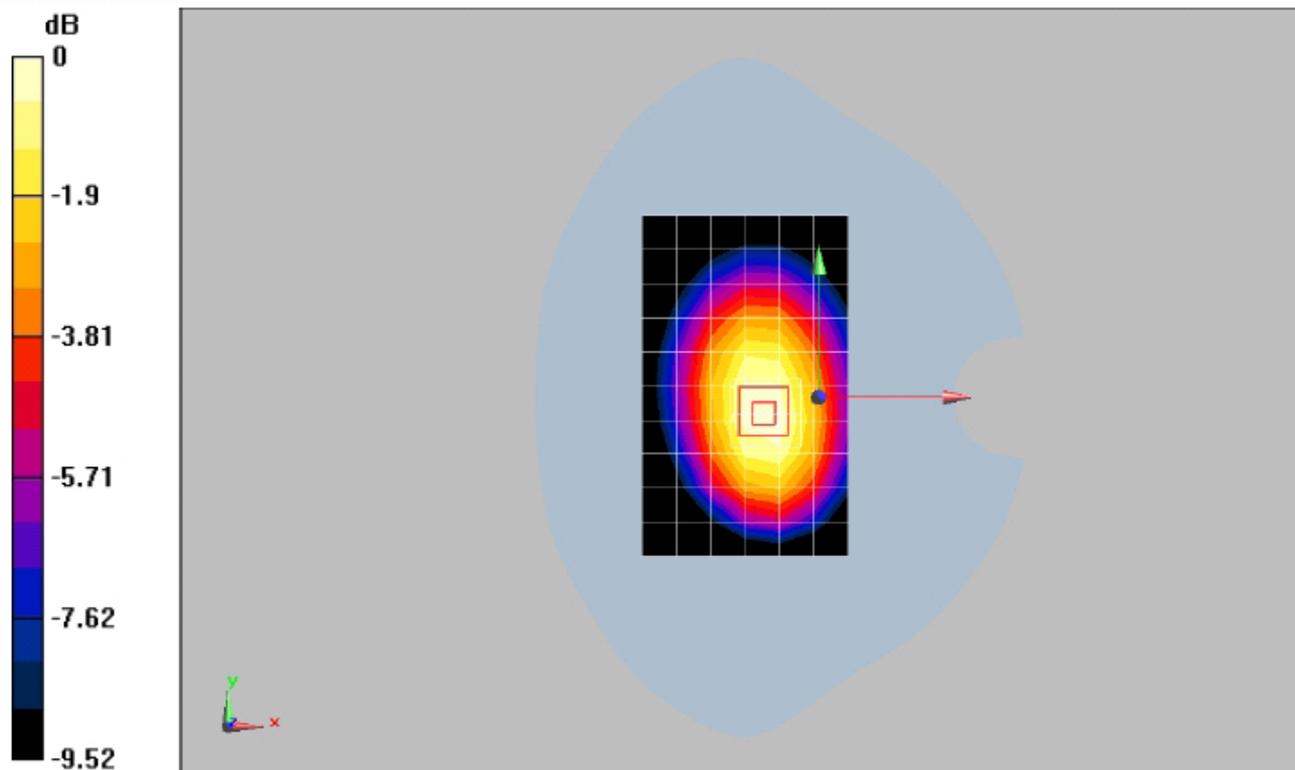
Reference Value = 24.3 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.752 W/kg

SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.424 mW/g

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

Maximum value of SAR (measured) = 0.619 mW/g



0 dB = 0.619mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards ground-Open

DUT: U3205

Communication System: WCDMA850; Frequency: 846.6 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.999$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.610 mW/g

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

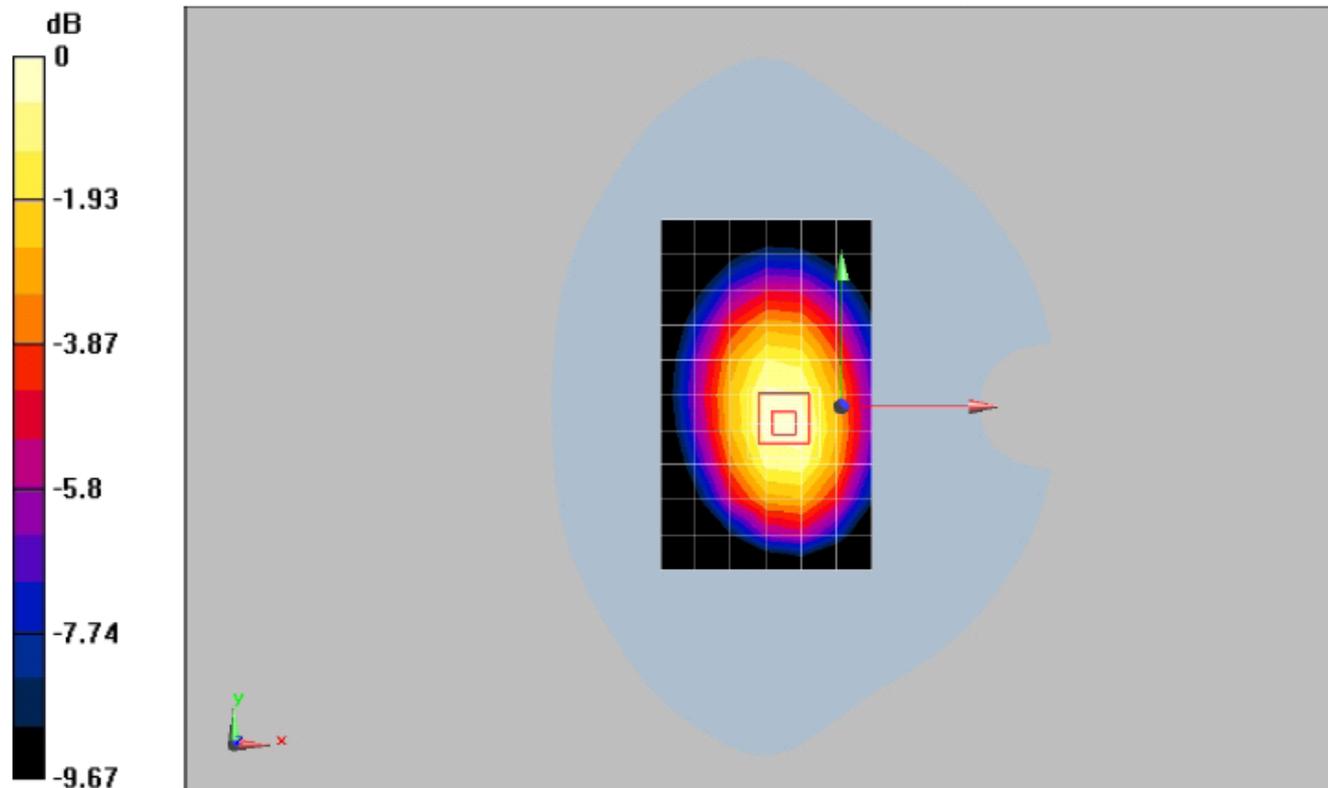
Reference Value = 25 V/m; Power Drift = 0.000466 dB

Peak SAR (extrapolated) = 0.796 W/kg

SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.447 mW/g

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

Maximum value of SAR (measured) = 0.654 mW/g



0 dB = 0.654mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm
 ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards ground-Open

DUT: U3205

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.426 mW/g

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

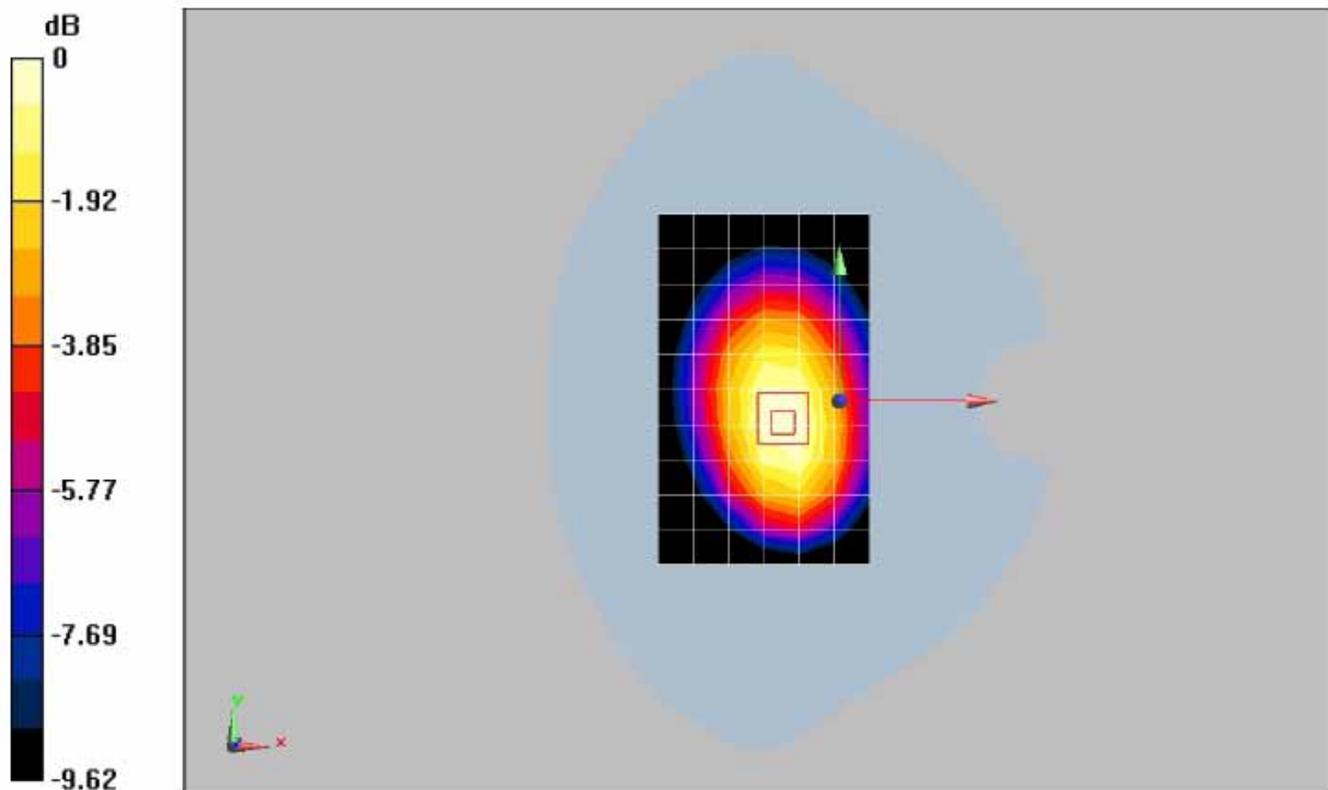
Reference Value = 20.7 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.306 mW/g

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

Maximum value of SAR (measured) = 0.446 mW/g



0 dB = 0.446mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards ground with HSDPA-Open

DUT: U3205

Communication System: WCDMA850; Frequency: 846.6 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.999$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.595 mW/g

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

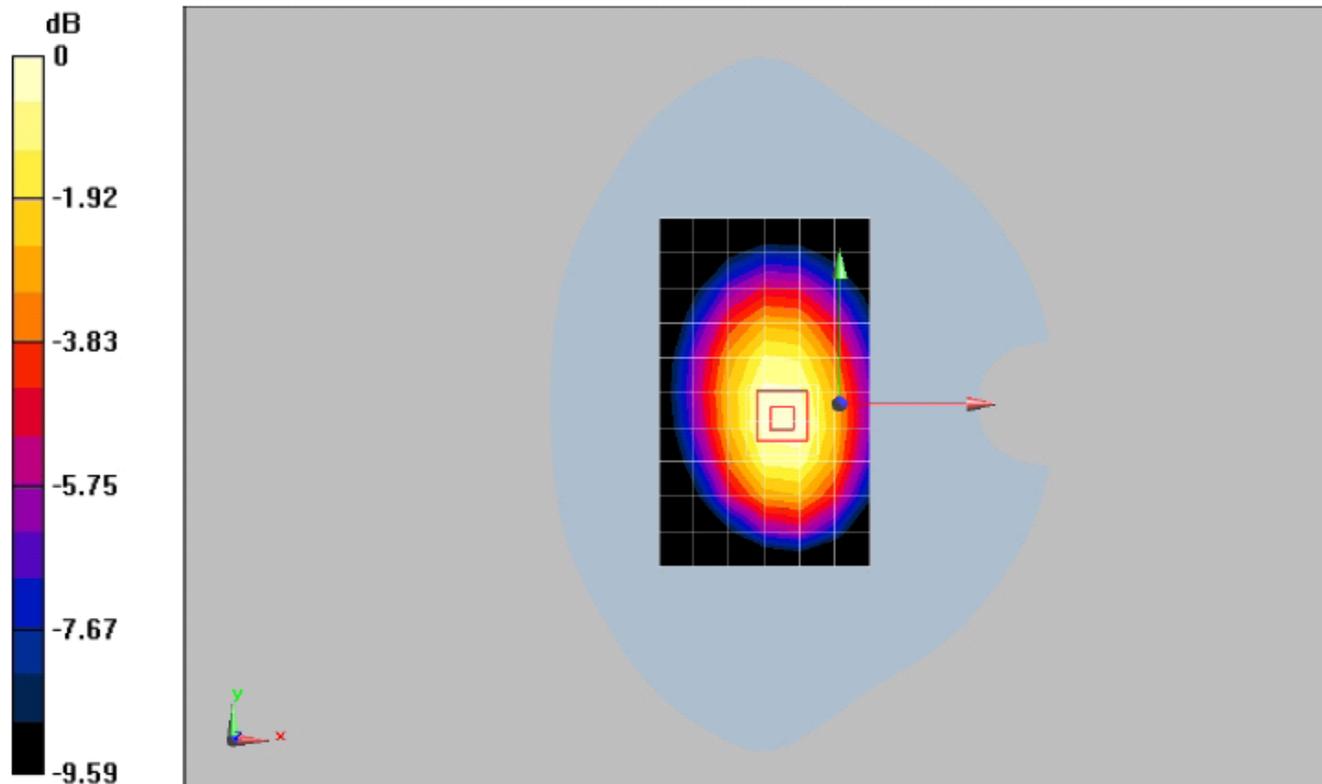
Reference Value = 24.4 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.760 W/kg

SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.433 mW/g

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

Maximum value of SAR (measured) = 0.629 mW/g



0 dB = 0.629mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm
 ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards ground with Headset-Open

DUT: U3205

Communication System: WCDMA850; Frequency: 846.6 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.999$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.451 mW/g

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

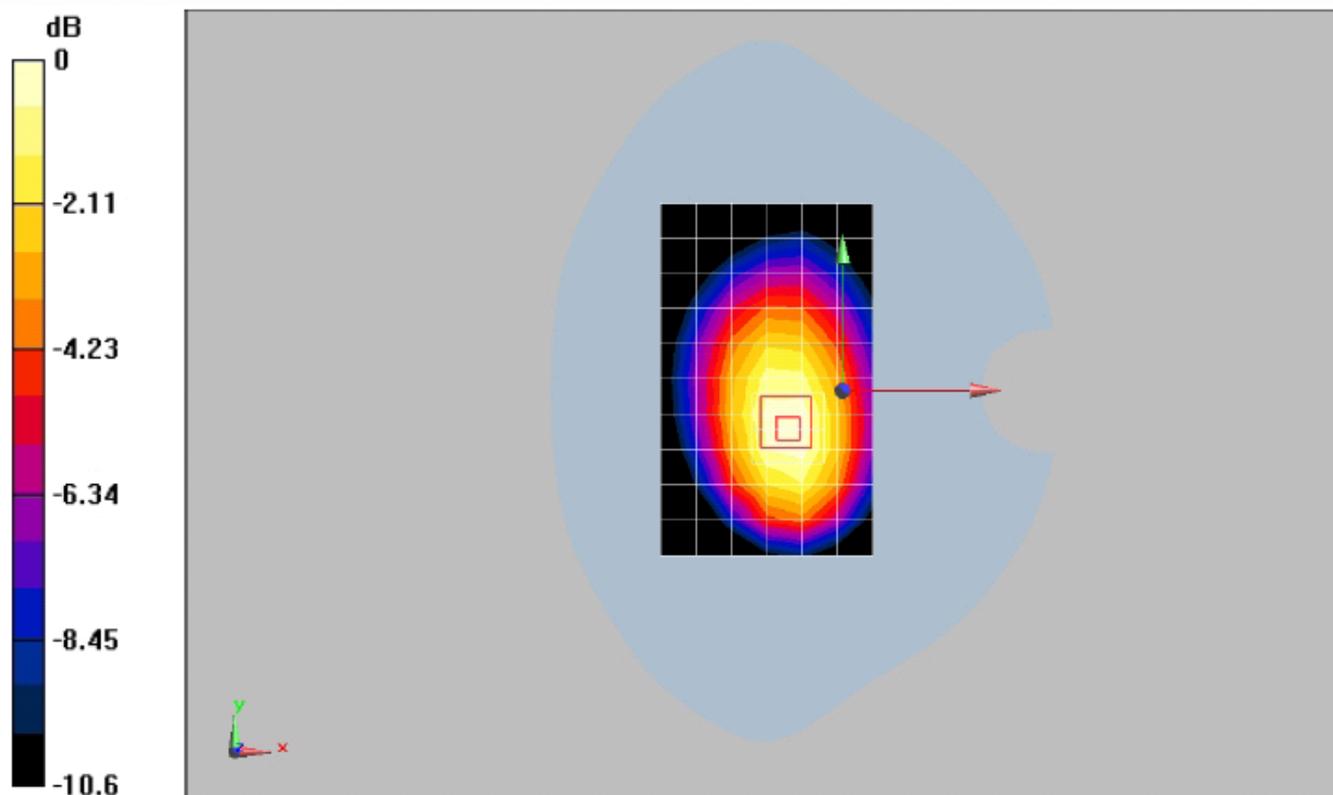
Reference Value = 20.5 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 0.600 W/kg

SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.326 mW/g

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

Maximum value of SAR (measured) = 0.486 mW/g



0 dB = 0.486mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm
 ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards ground with Bluetooth Headset

DUT: U3205

Communication System: WCDMA850; Frequency: 846.6 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.999$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.97, 5.97, 5.97); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM2; Type: SAM; Serial: TP-1474
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.628 mW/g

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

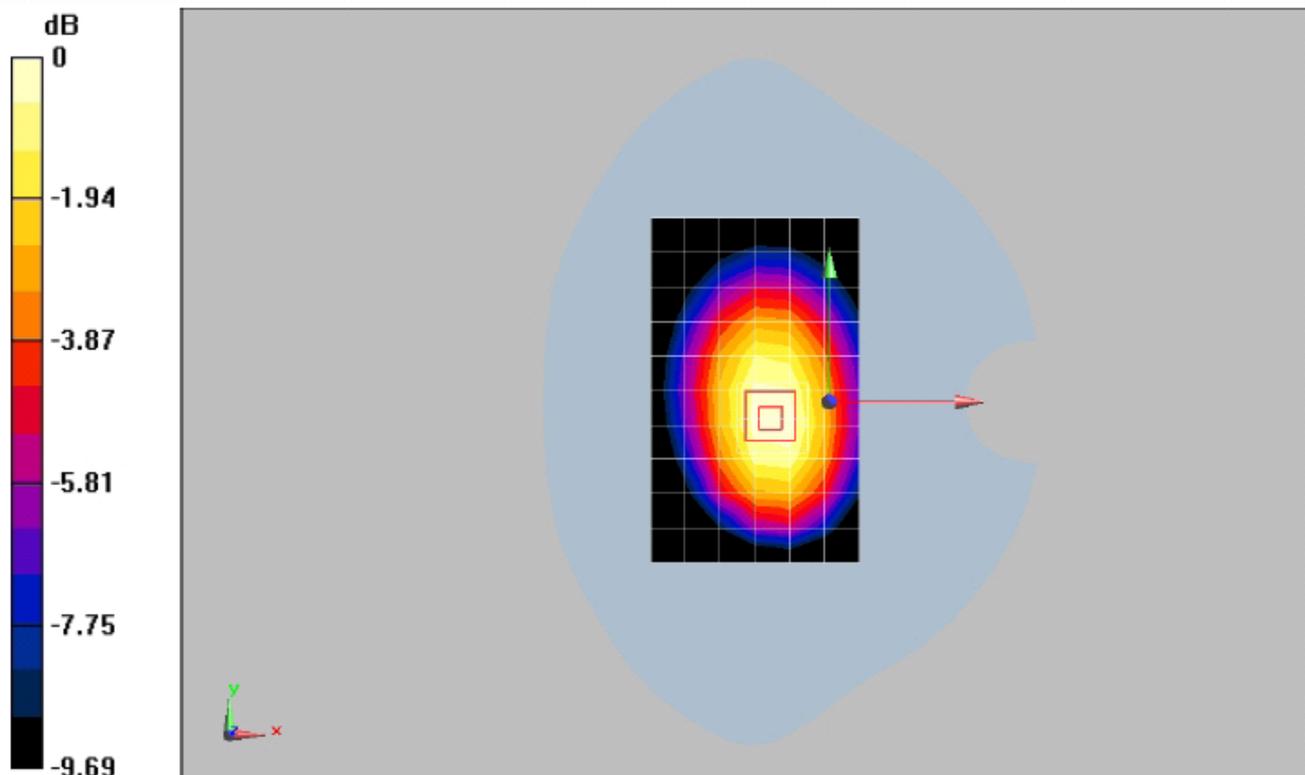
Reference Value = 25.2 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.808 W/kg

SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.458 mW/g

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

Maximum value of SAR (measured) = 0.666 mW/g



0 dB = 0.666mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) : 15 mm
 ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2.7 UMTS (WCDMA) FDD II 1900MHz head

Date/Time: 2009-09-15 04:44:42

P1528_OET65_EN62209-LeftHandSide touched-Close-WCDMA FDD II

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.590 mW/g

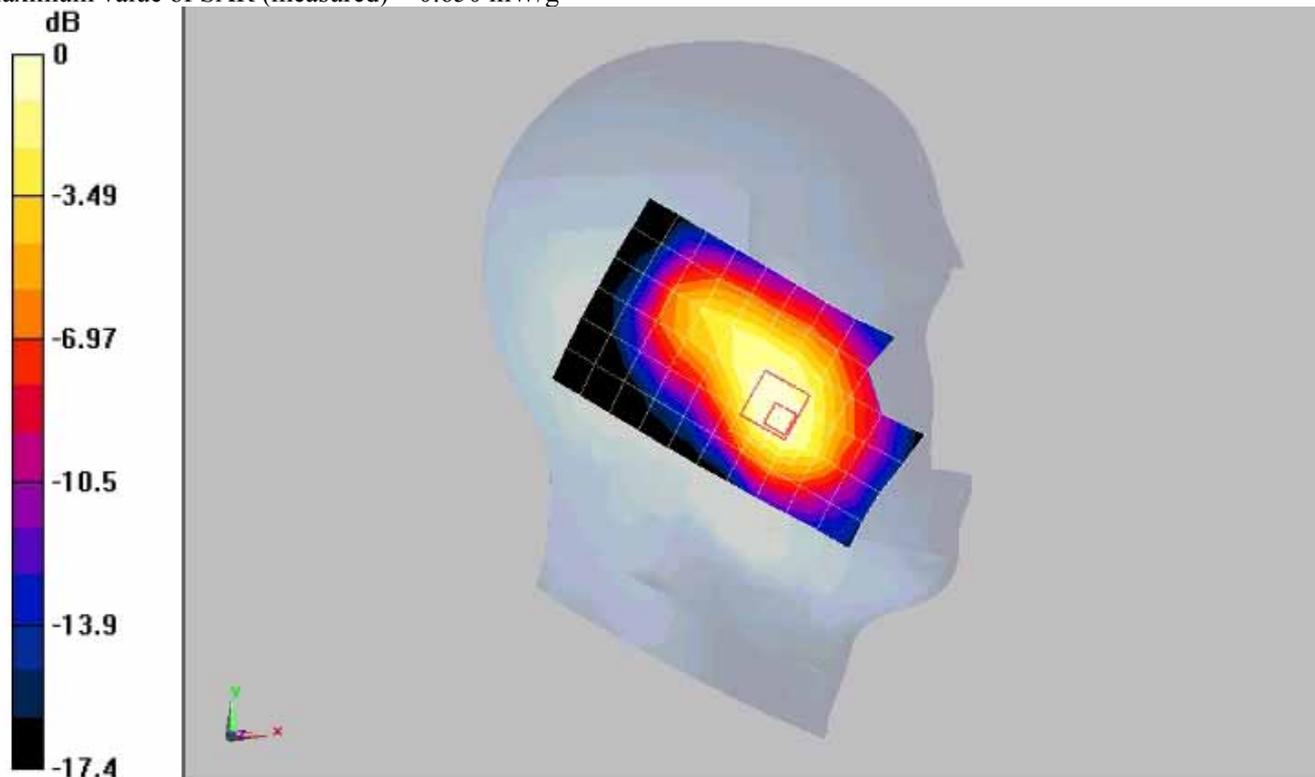
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = 0.00277 dB

Peak SAR (extrapolated) = 0.968 W/kg

SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.366 mW/g

Maximum value of SAR (measured) = 0.650 mW/g



0 dB = 0.650mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide tilted 15°-Close- WCDMA FDD II

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.325 mW/g

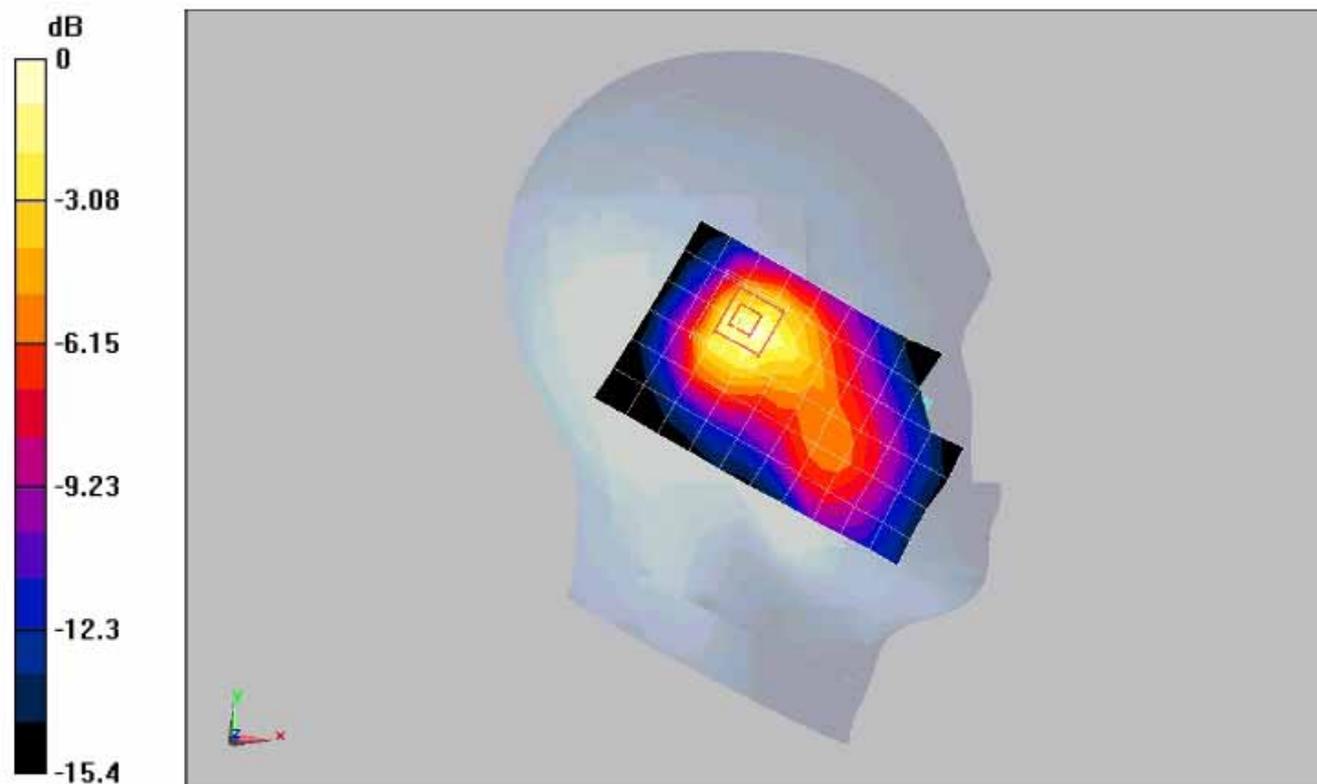
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.8 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.523 W/kg

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.361 mW/g



0 dB = 0.361mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide touched-Open-WCDMA FDD II

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

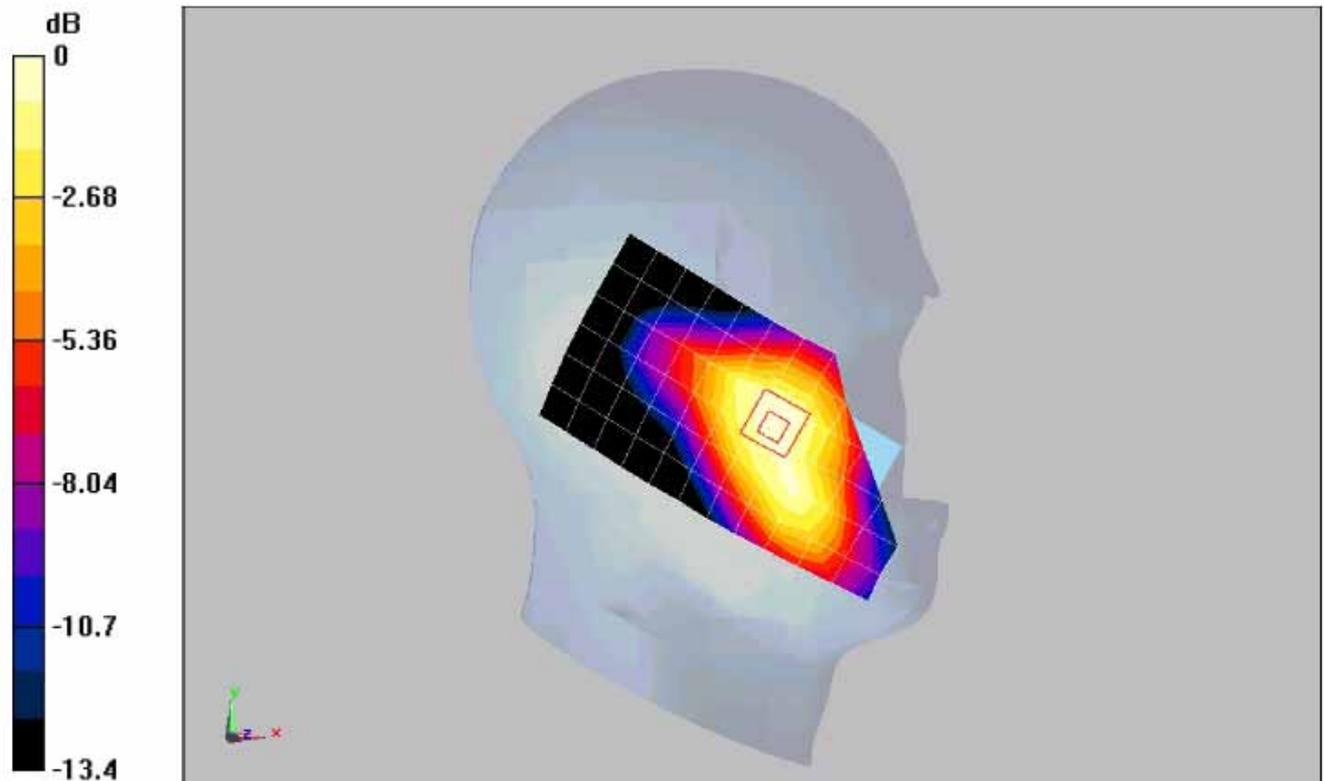
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.14 V/m; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 0.515 W/kg

SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.388 mW/g



0 dB = 0.388mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide tilted 15°-Open- WCDMA FDD II

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.132 mW/g

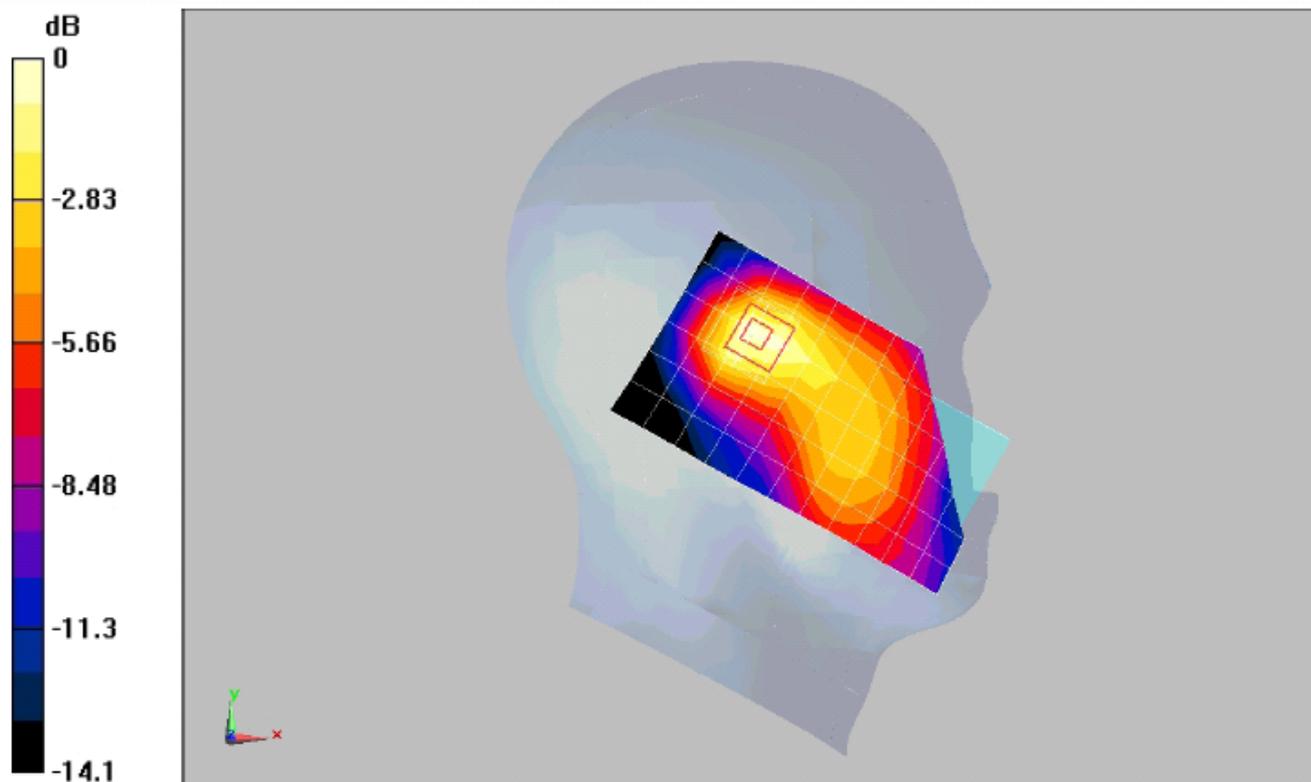
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.48 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.141 mW/g



0 dB = 0.141mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Close-WCDMA FDD II

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.564 mW/g

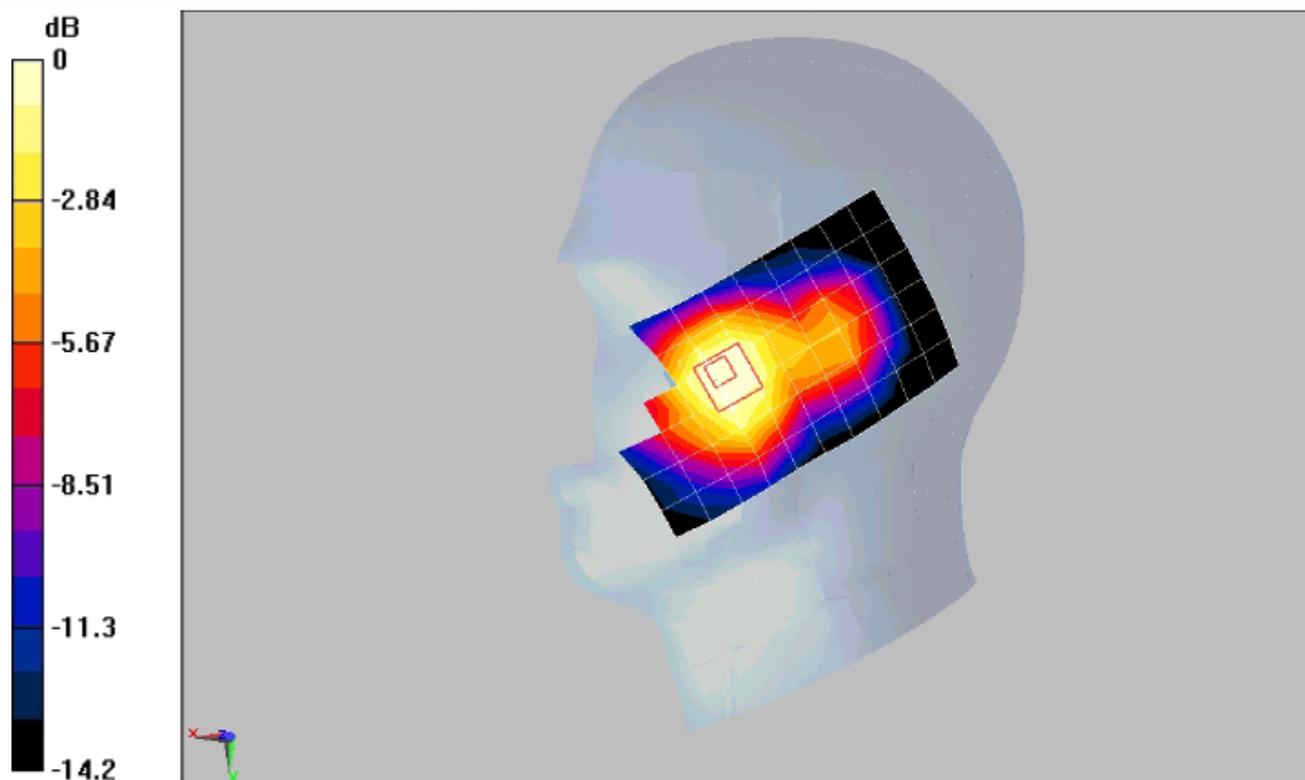
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 0.843 W/kg

SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.351 mW/g

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



0 dB = 0.586mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide tilted 15°-Close- WCDMA FDD II

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.281 mW/g

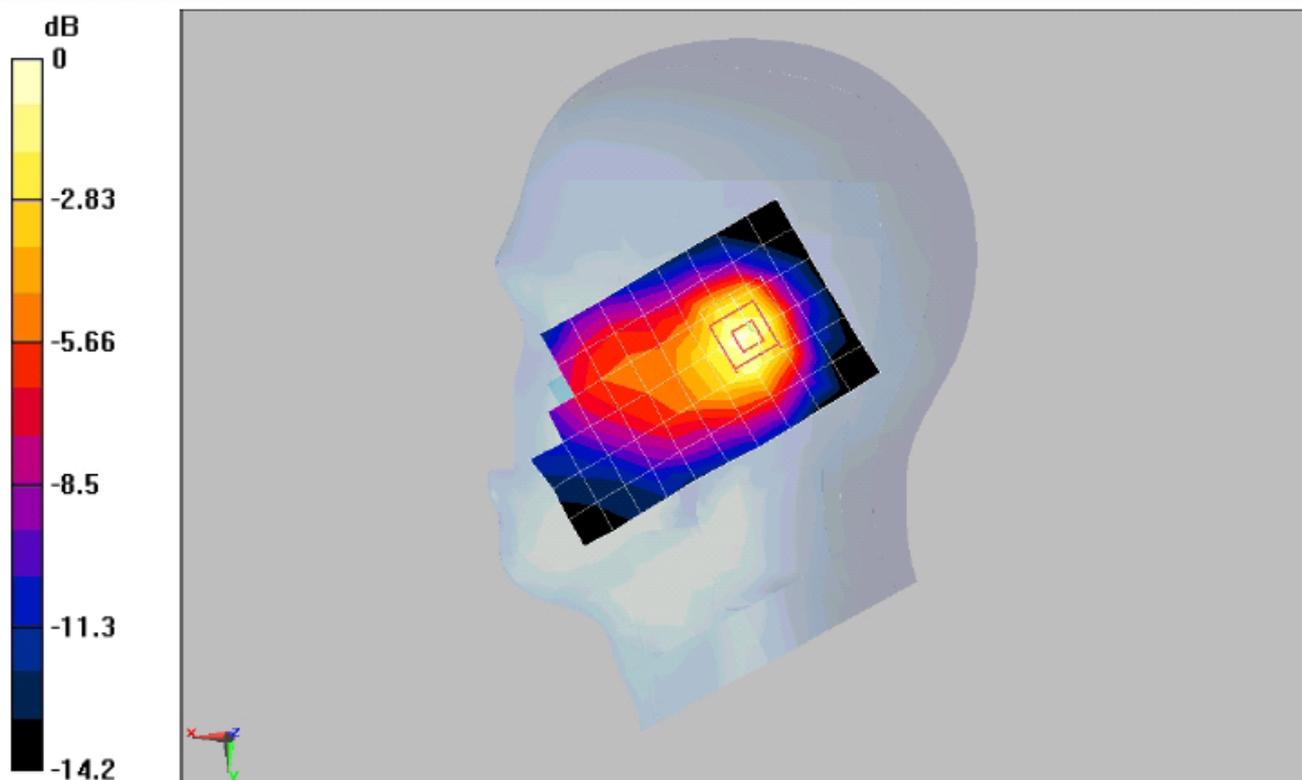
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.165 mW/g

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



0 dB = 0.301mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide touched-Open-WCDMA FDD II**DUT: U3205**

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.328 mW/g

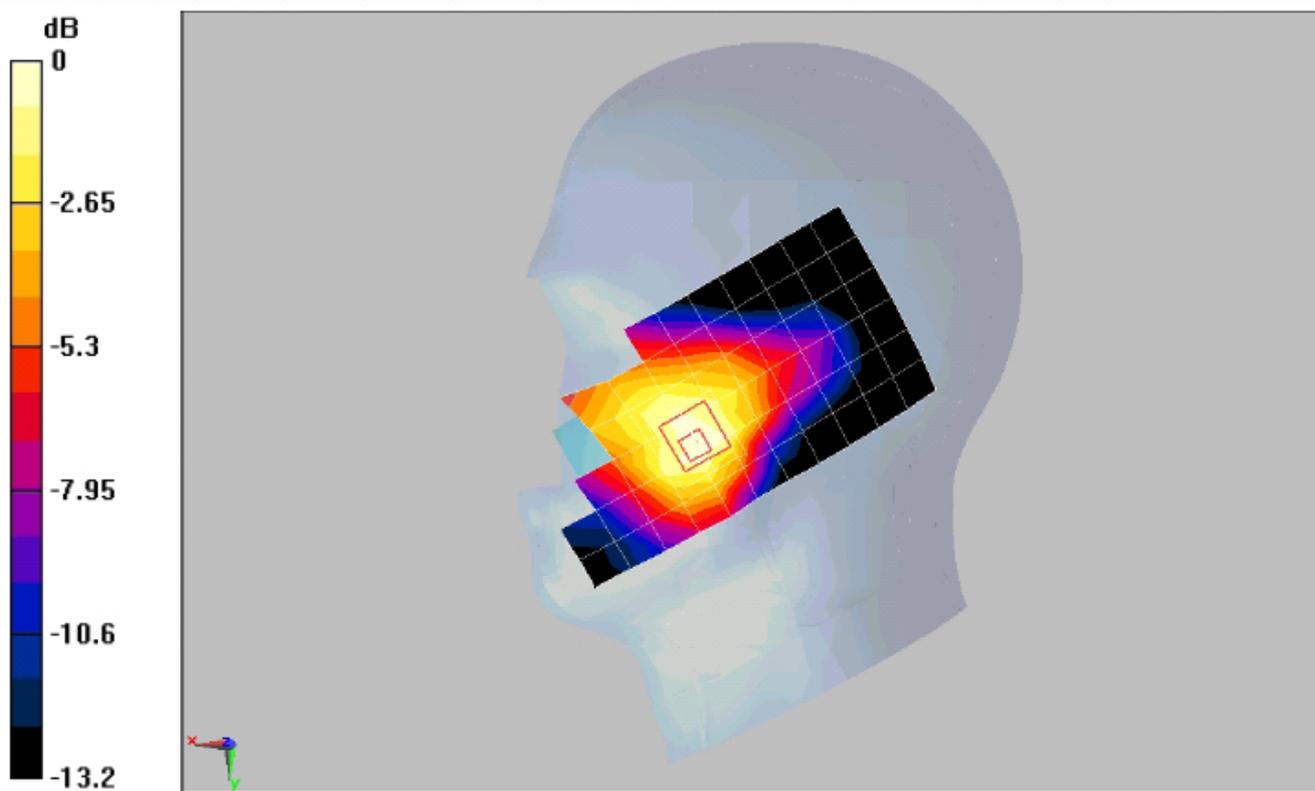
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.46 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.205 mW/g

Maximum value of SAR (measured) = 0.341 mW/g



0 dB = 0.341mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-RightHandSide tilted 15°-Open- WCDMA FDD II

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn852; Calibrated: 12/22/2008

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

- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.114 mW/g

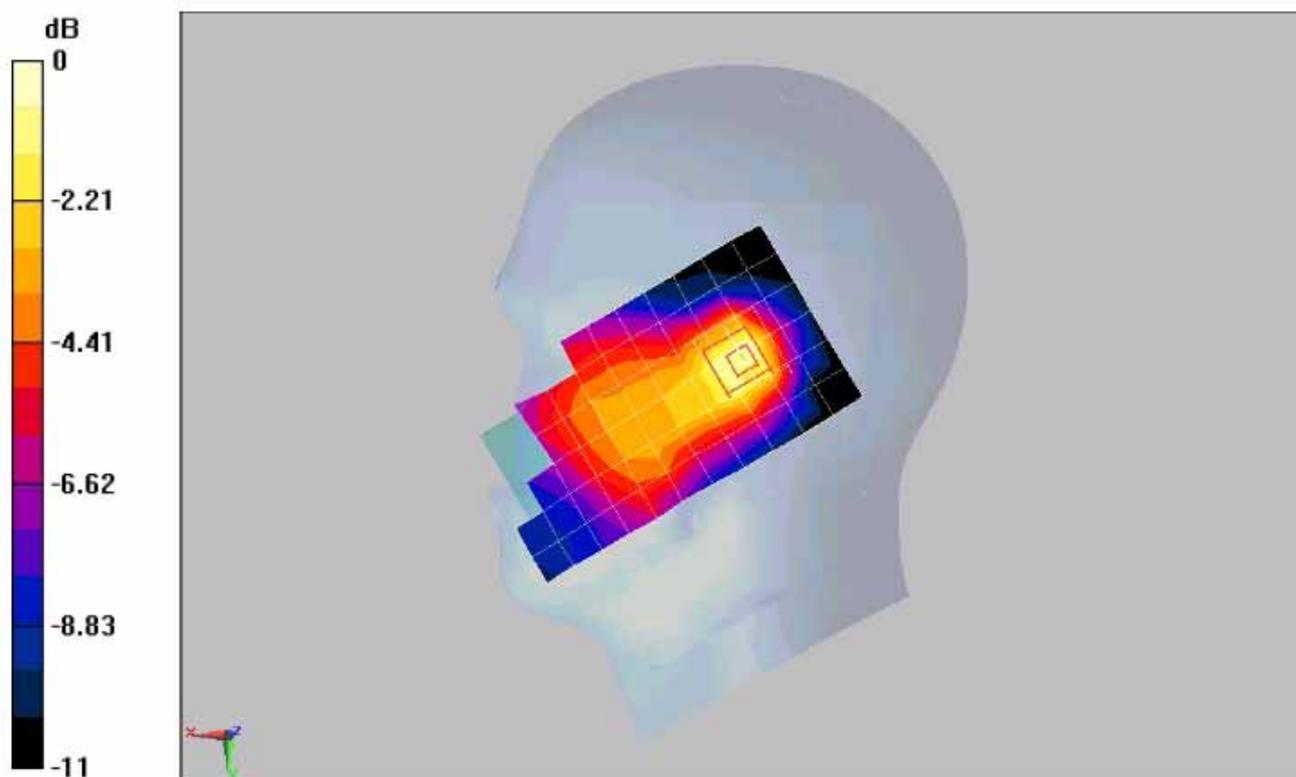
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.53 V/m; Power Drift = 0.00594 dB

Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.072 mW/g

Maximum value of SAR (measured) = 0.132 mW/g



0 dB = 0.132mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide touched-Close-WCDMA FDD II**DUT: U3205**

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.628 mW/g

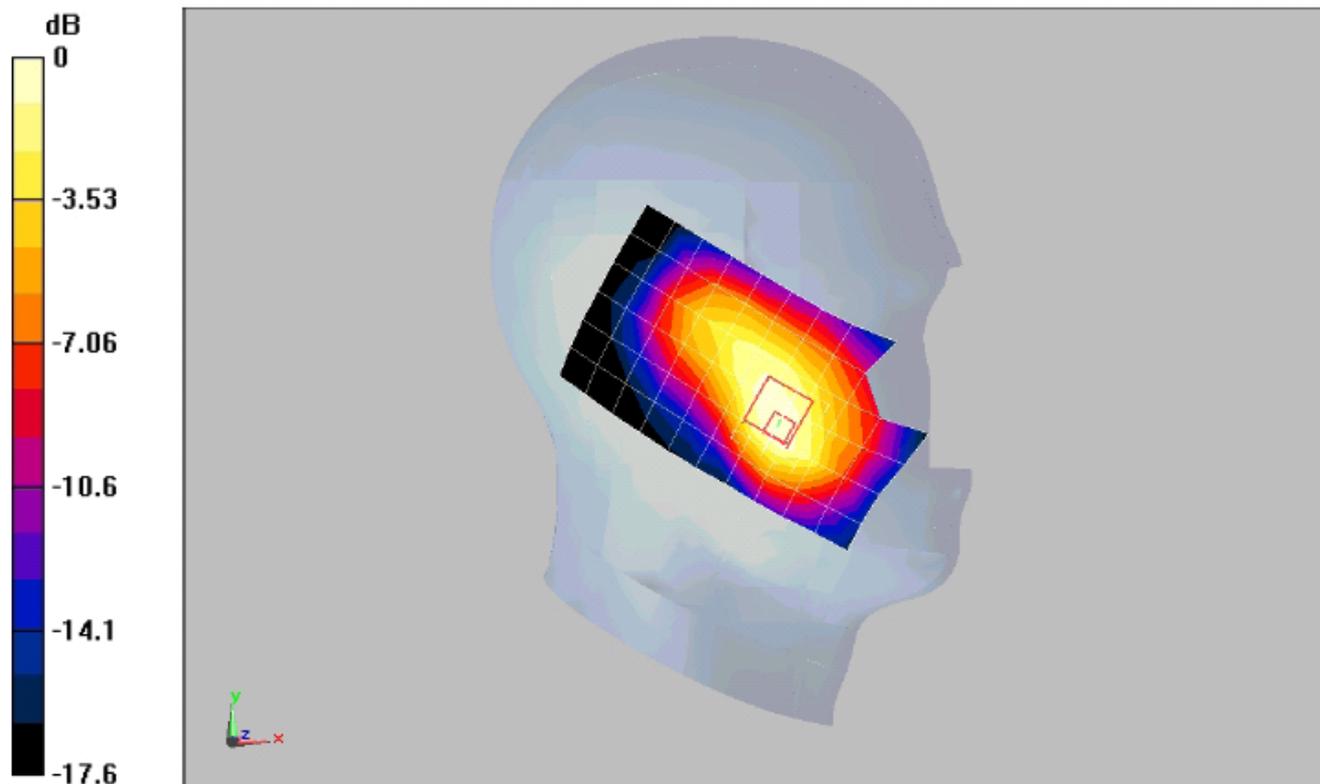
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.622 mW/g; SAR(10 g) = 0.376 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.682 mW/g



0 dB = 0.682mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209-LeftHandSide touched-Close-WCDMA FDD II**DUT: U3205**

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.98, 4.98, 4.98); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.615 mW/g

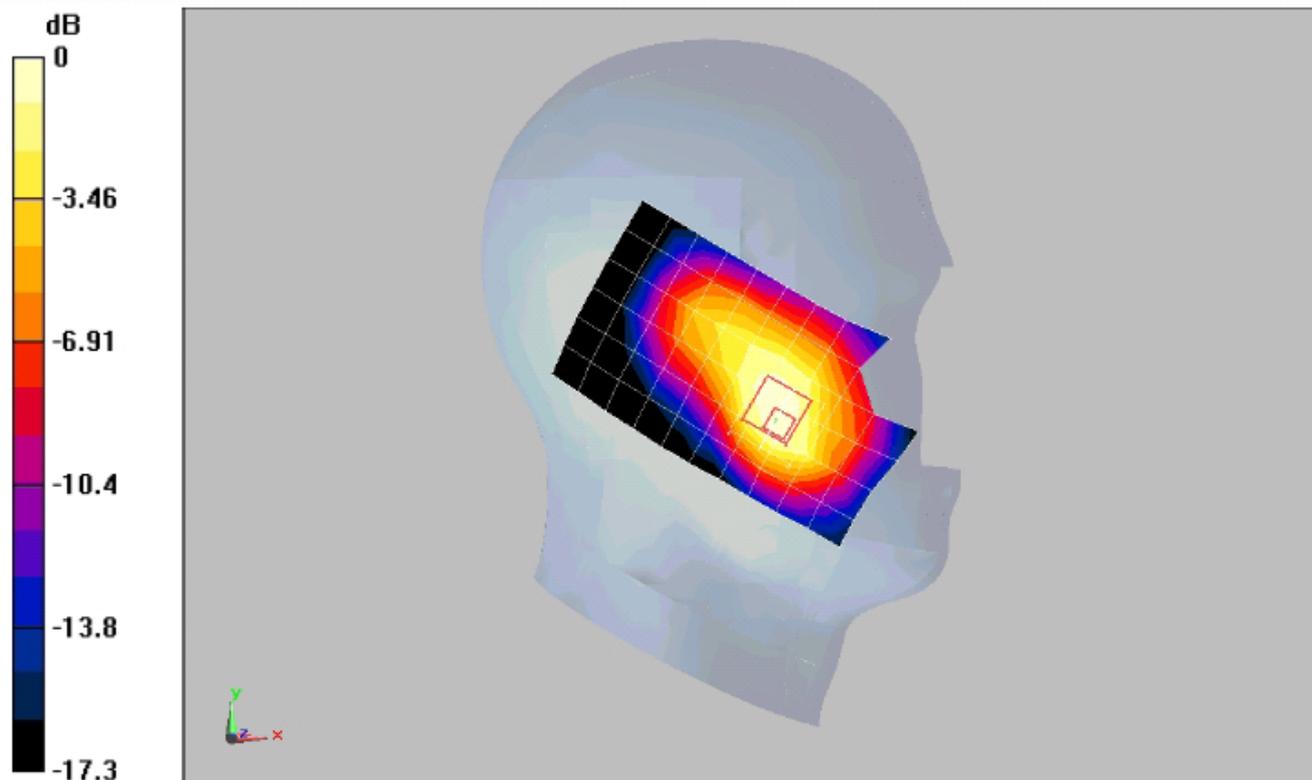
Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.622 mW/g; SAR(10 g) = 0.380 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



0 dB = 0.684mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

Annex 2.8 UMTS (WCDMA) FDD II 1900MHz body

Date/Time: 2009-09-16 03:35:13

P1528_OET65_EN62209- WCDMA FDD II towards phantom-Close

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.171 mW/g

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

Reference Value = 8.47 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.274 W/kg

SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.188 mW/g

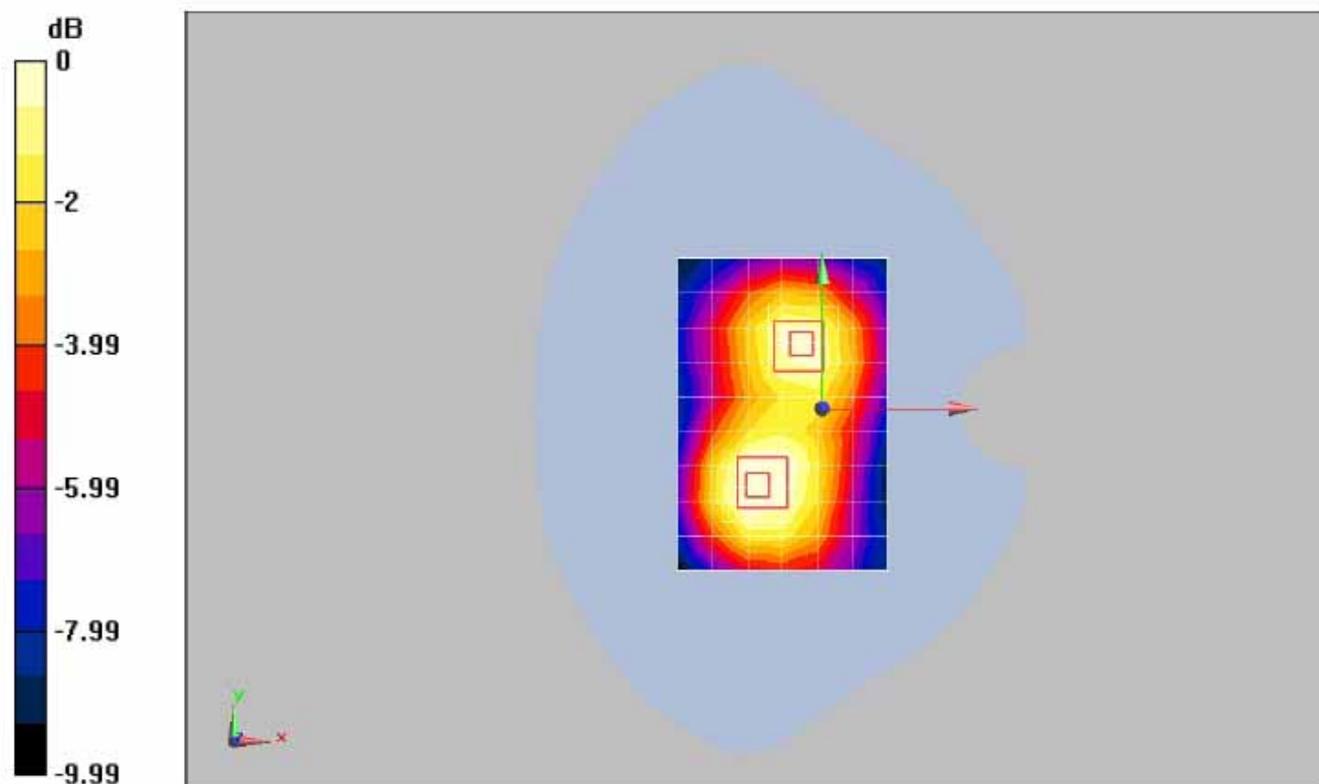
Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.47 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.157 mW/g



0 dB = 0.157mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD V towards phantom-Open

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.273 mW/g

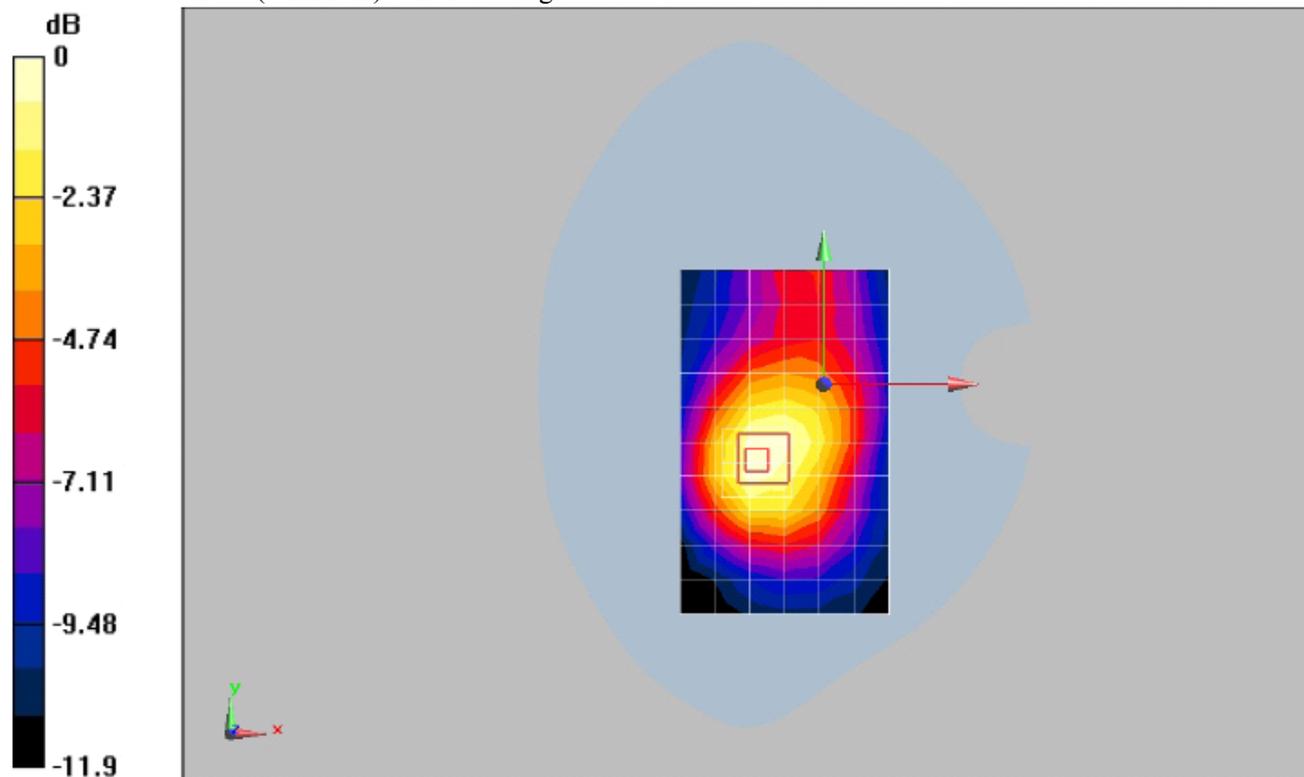
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.92 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.426 W/kg

SAR(1 g) = 0.269 mW/g; SAR(10 g) = 0.170 mW/g

Maximum value of SAR (measured) = 0.291 mW/g



0 dB = 0.291mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD II towards ground-Close

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (measured) = 0.565 mW/g

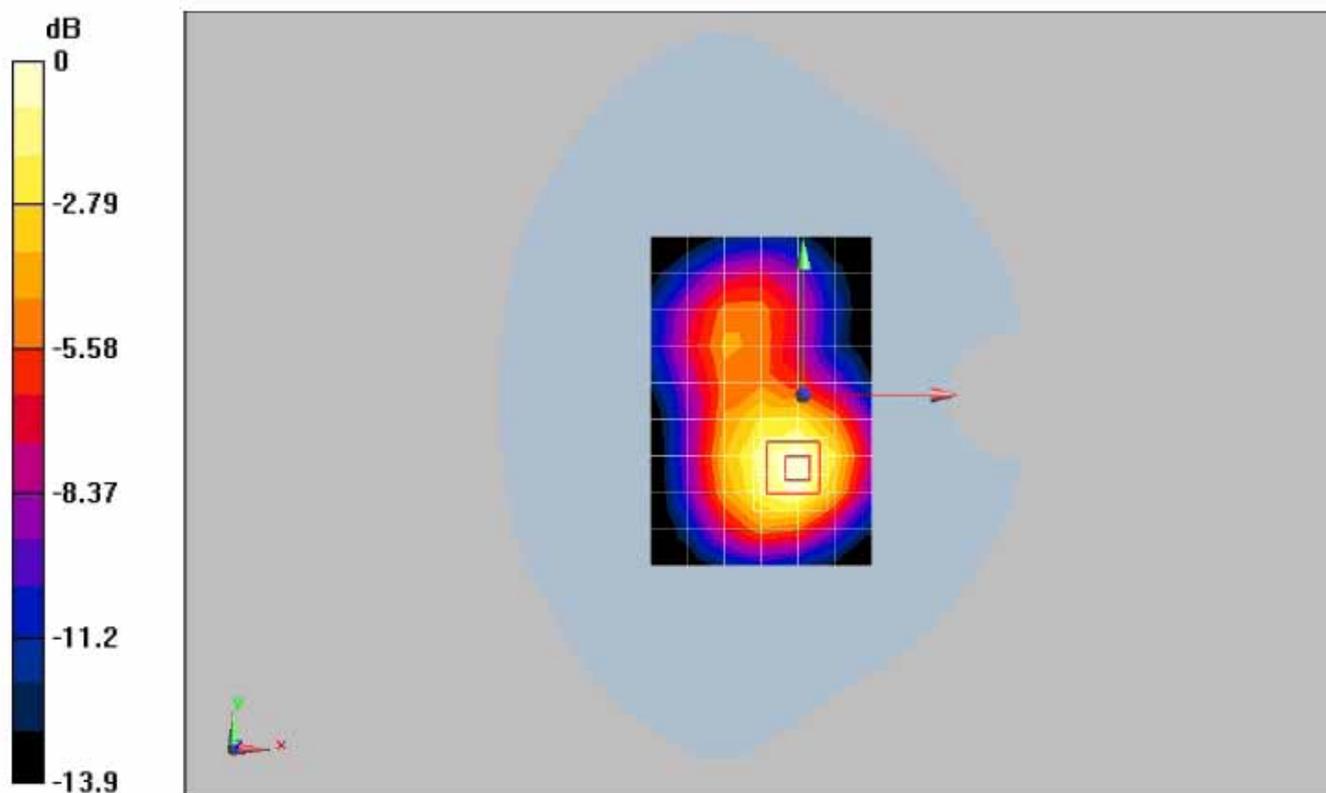
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.868 W/kg

SAR(1 g) = 0.538 mW/g; SAR(10 g) = 0.323 mW/g

Maximum value of SAR (measured) = 0.578 mW/g



0 dB = 0.578mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD II towards ground-Open

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.563 mW/g

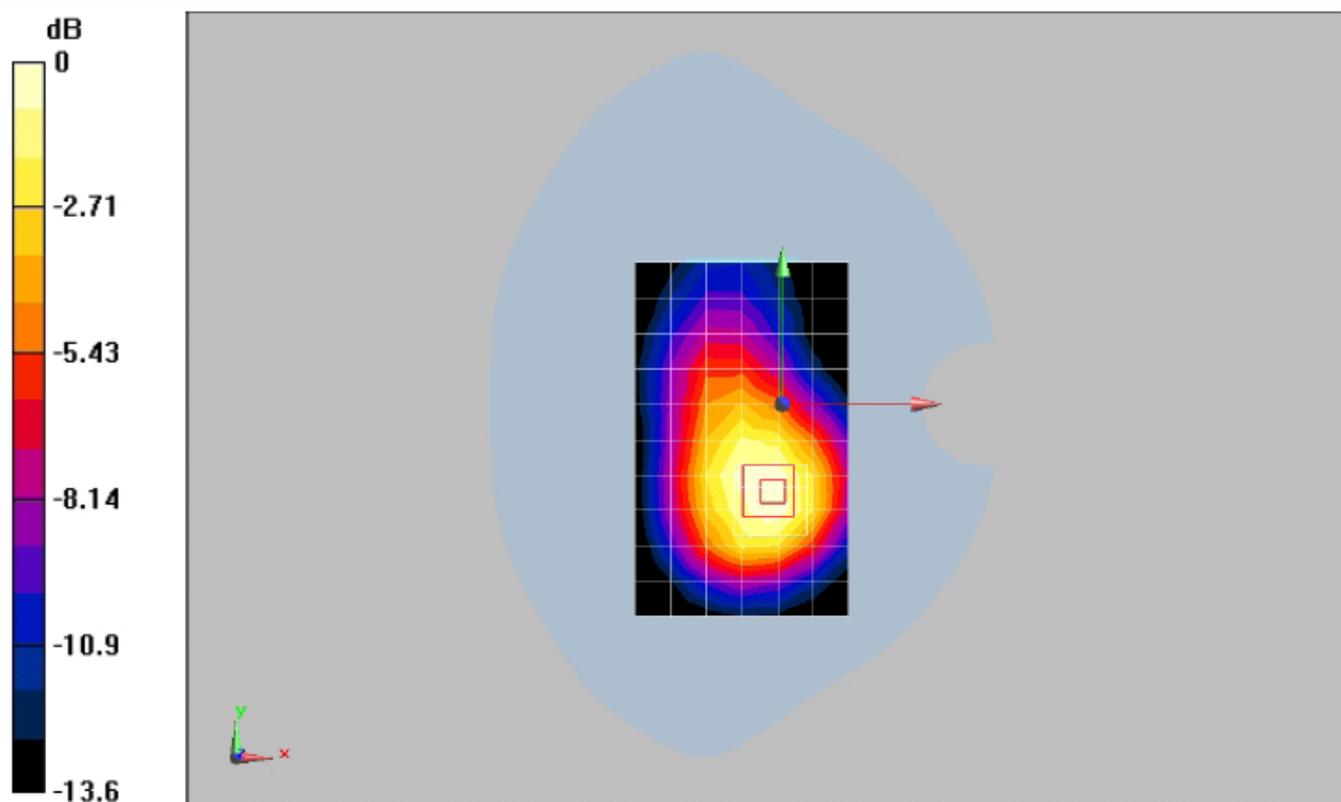
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.00714 dB

Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.540 mW/g; SAR(10 g) = 0.337 mW/g

Maximum value of SAR (measured) = 0.580 mW/g



0 dB = 0.580mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD II towards ground-Open

DUT: U3205

Communication System: WCDMA1900; Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.518 mW/g

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

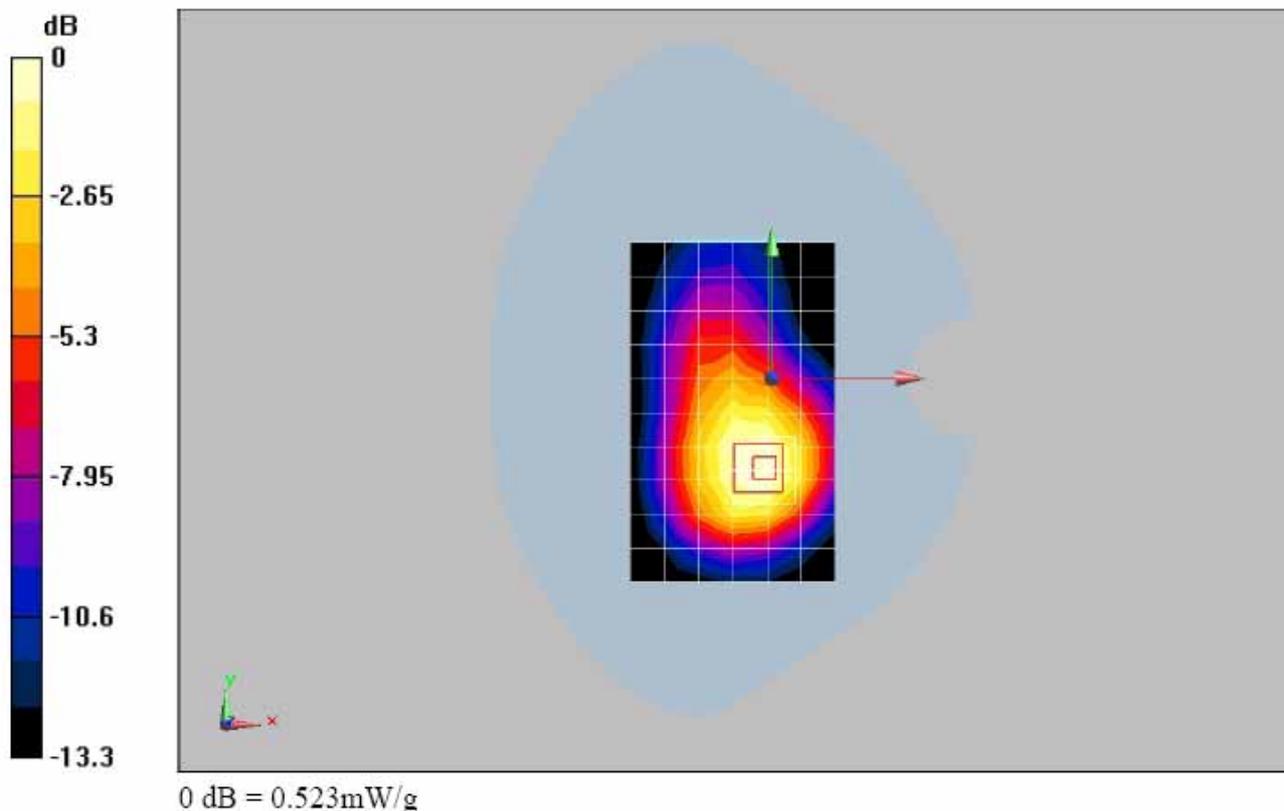
Reference Value = 12.5 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.787 W/kg

SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.305 mW/g

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

Maximum value of SAR (measured) = 0.523 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: 22.3°C

P1528_OET65_EN62209- WCDMA FDD II towards ground-Open

DUT: U3205

Communication System: WCDMA1900; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.521 mW/g

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

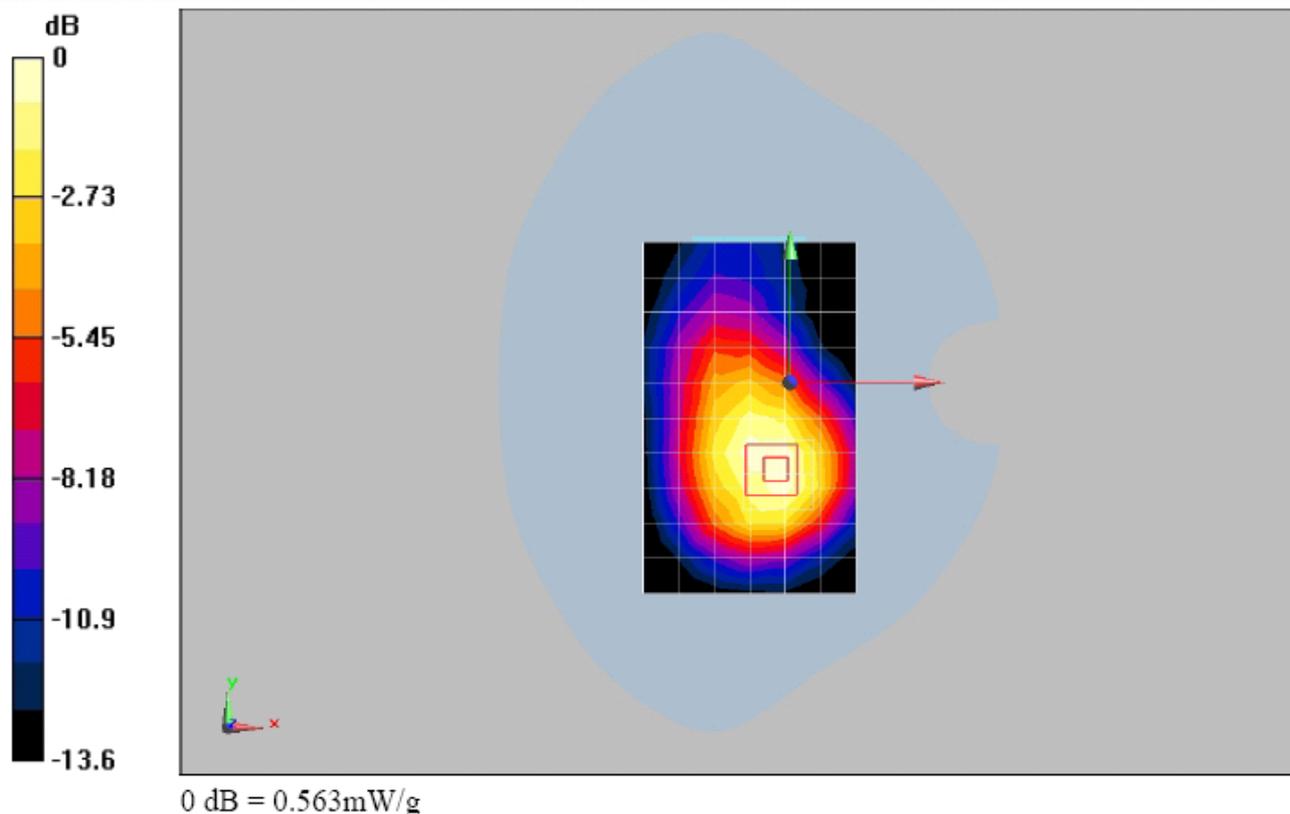
Reference Value = 13.8 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.847 W/kg

SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.326 mW/g

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

Maximum value of SAR (measured) = 0.563 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: 22.3°C

P1528_OET65_EN62209- WCDMA FDD II towards ground with HSDPA-Open

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.575 mW/g

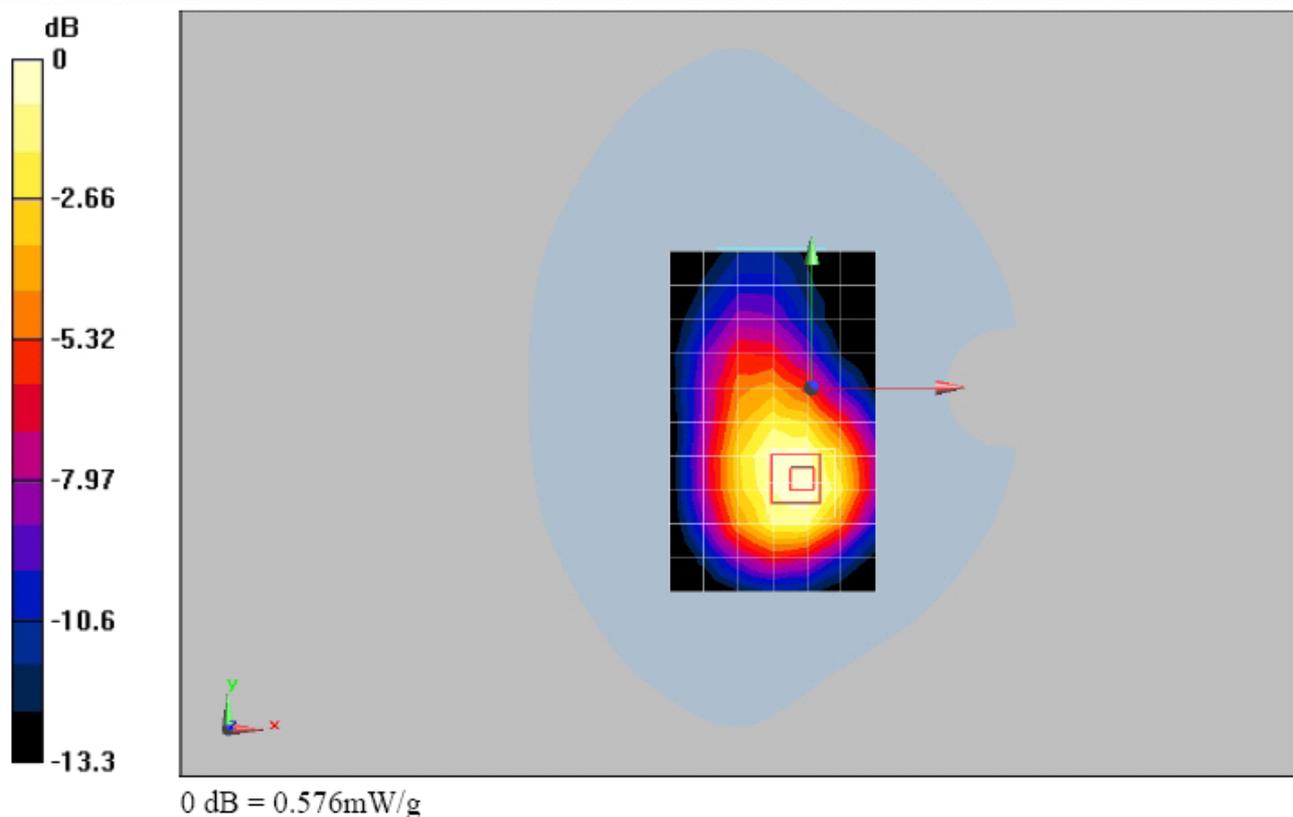
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.868 W/kg

SAR(1 g) = 0.537 mW/g; SAR(10 g) = 0.337 mW/g

Maximum value of SAR (measured) = 0.576 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: 22.3°C

P1528_OET65_EN62209- WCDMA FDD II towards ground with Headset-Open

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.563 mW/g

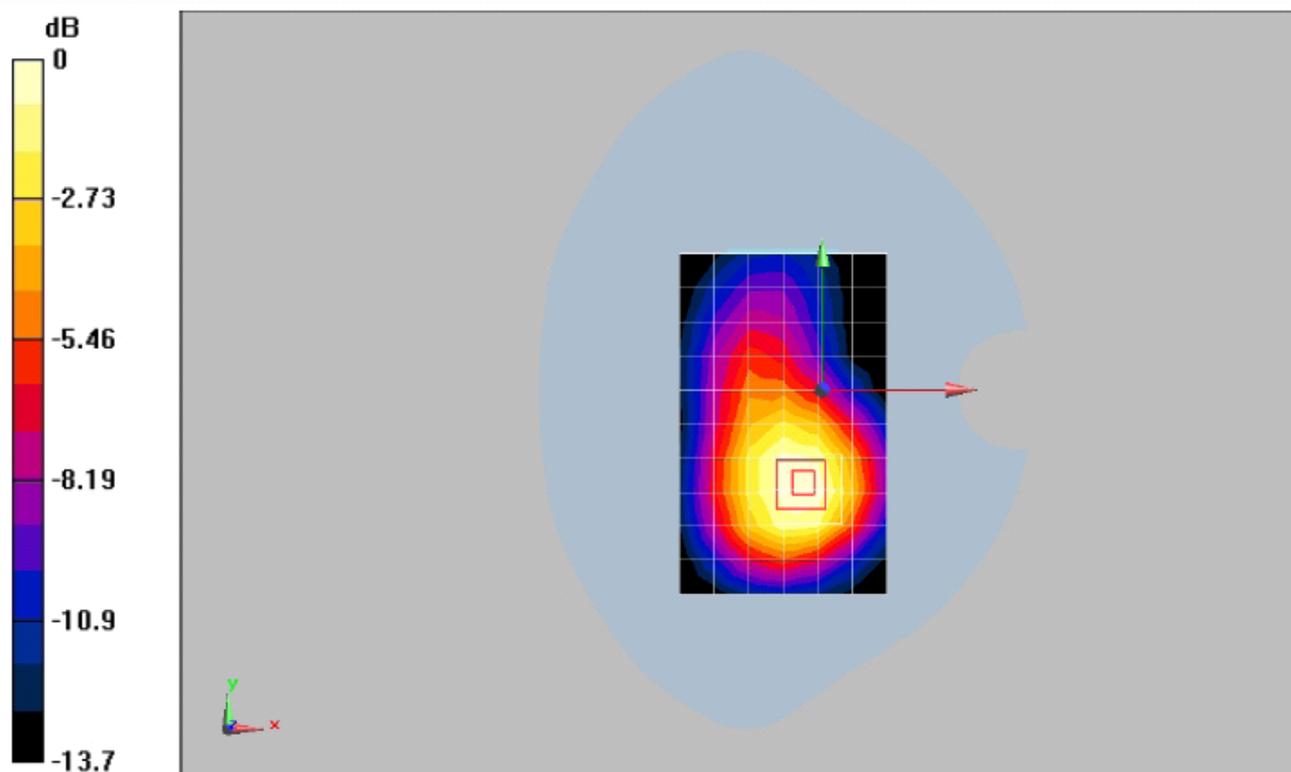
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 0.882 W/kg

SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.340 mW/g

Maximum value of SAR (measured) = 0.585 mW/g



0 dB = 0.585mW/g

Additional information:

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

ambient temperature: 23.0°C; liquid temperature: 22.3°C

P1528_OET65_EN62209- WCDMA FDD II towards ground with Bluetooth Headset

DUT: U3205

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.6, 4.6, 4.6); Calibrated: 12/22/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 12/22/2008
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.590 mW/g

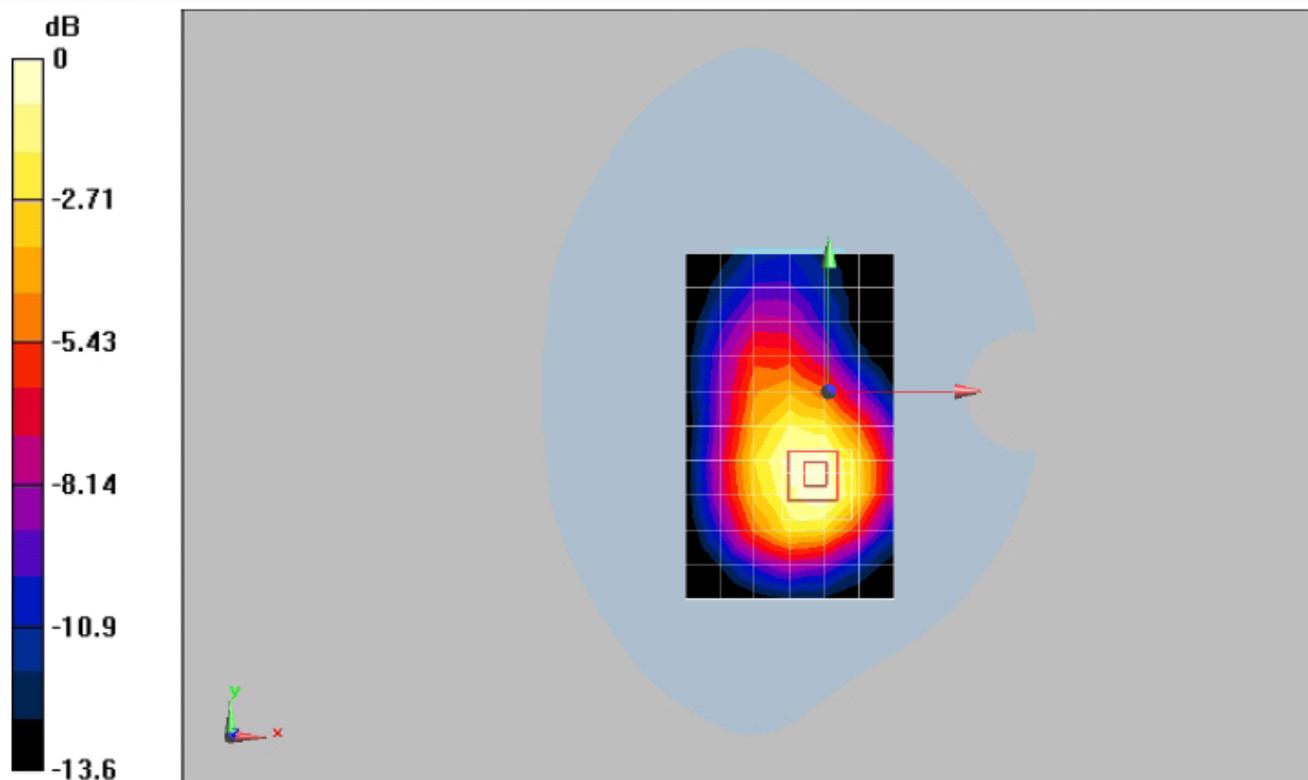
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.00702 dB

Peak SAR (extrapolated) = 0.917 W/kg

SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.352 mW/g

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



0 dB = 0.609mW/g

Additional information:

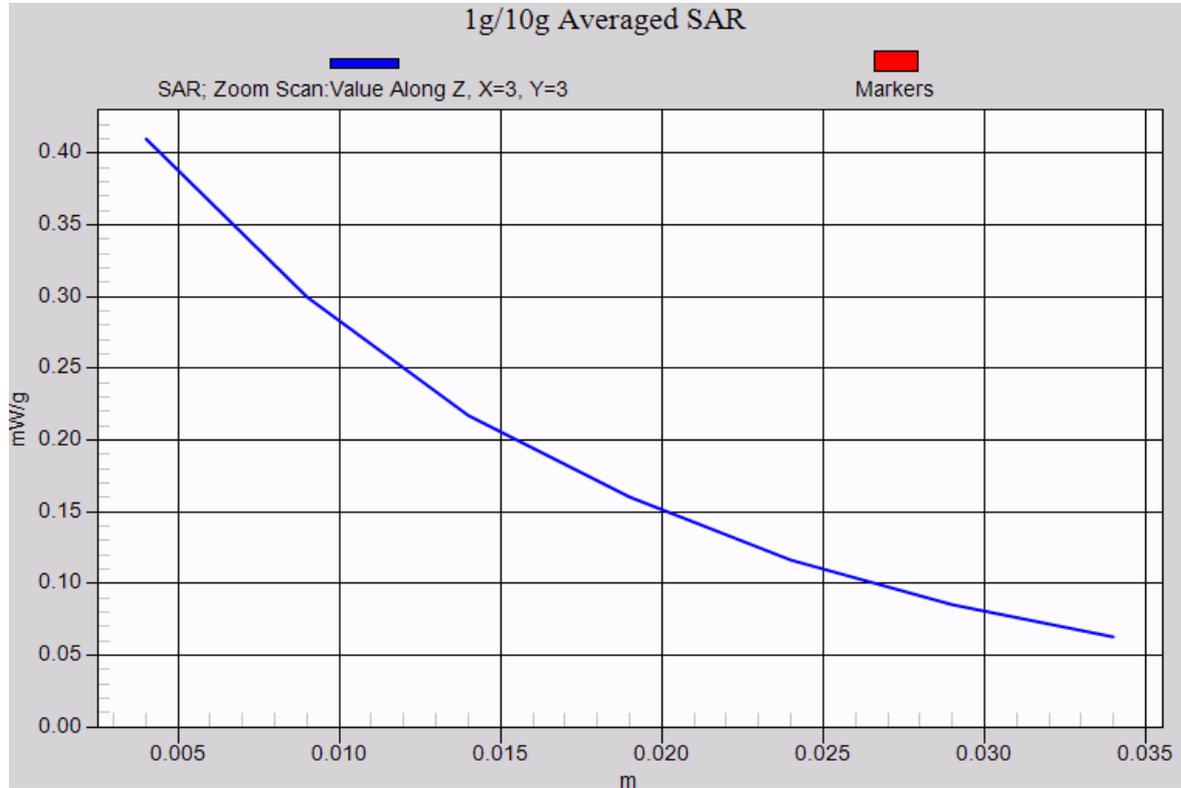
position or distance of DUT to SAM (if not standard head positions) : 15 mm

ambient temperature: 23.0°C; liquid temperature: 22.3°C

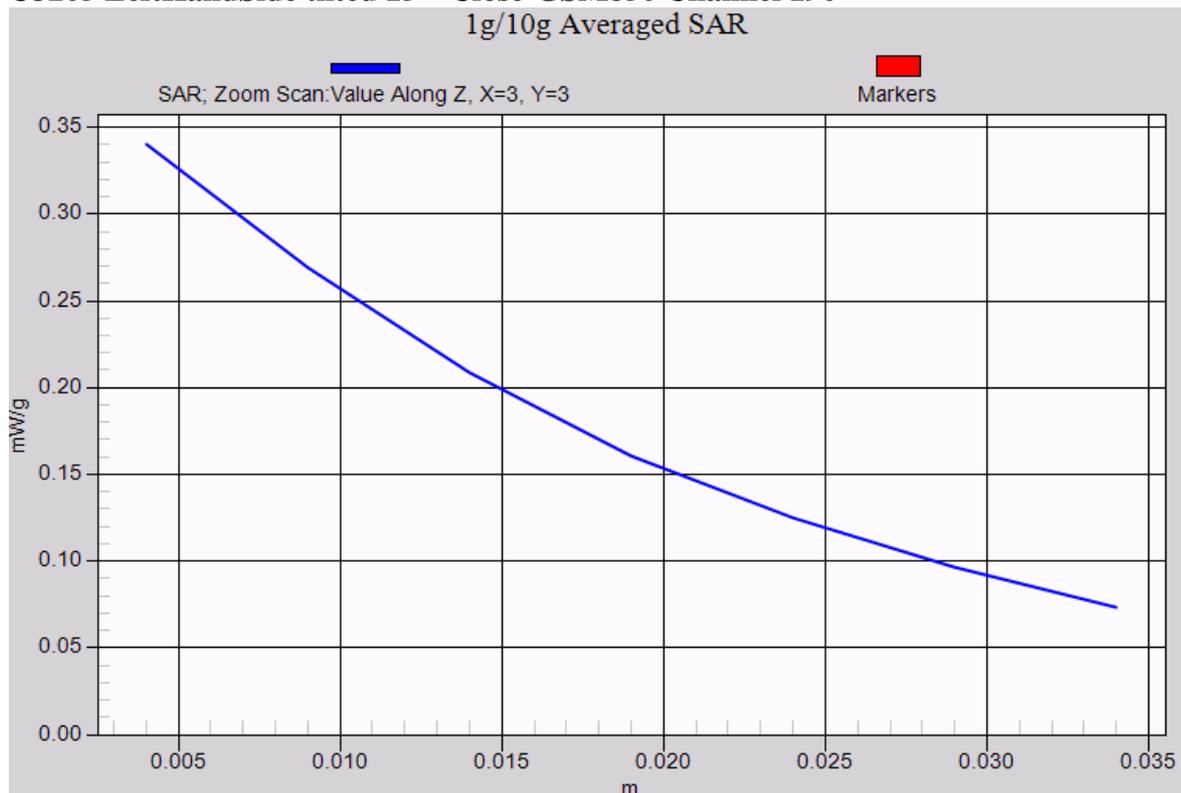
Annex 2.9 Z-axis scans

GSM850 head:

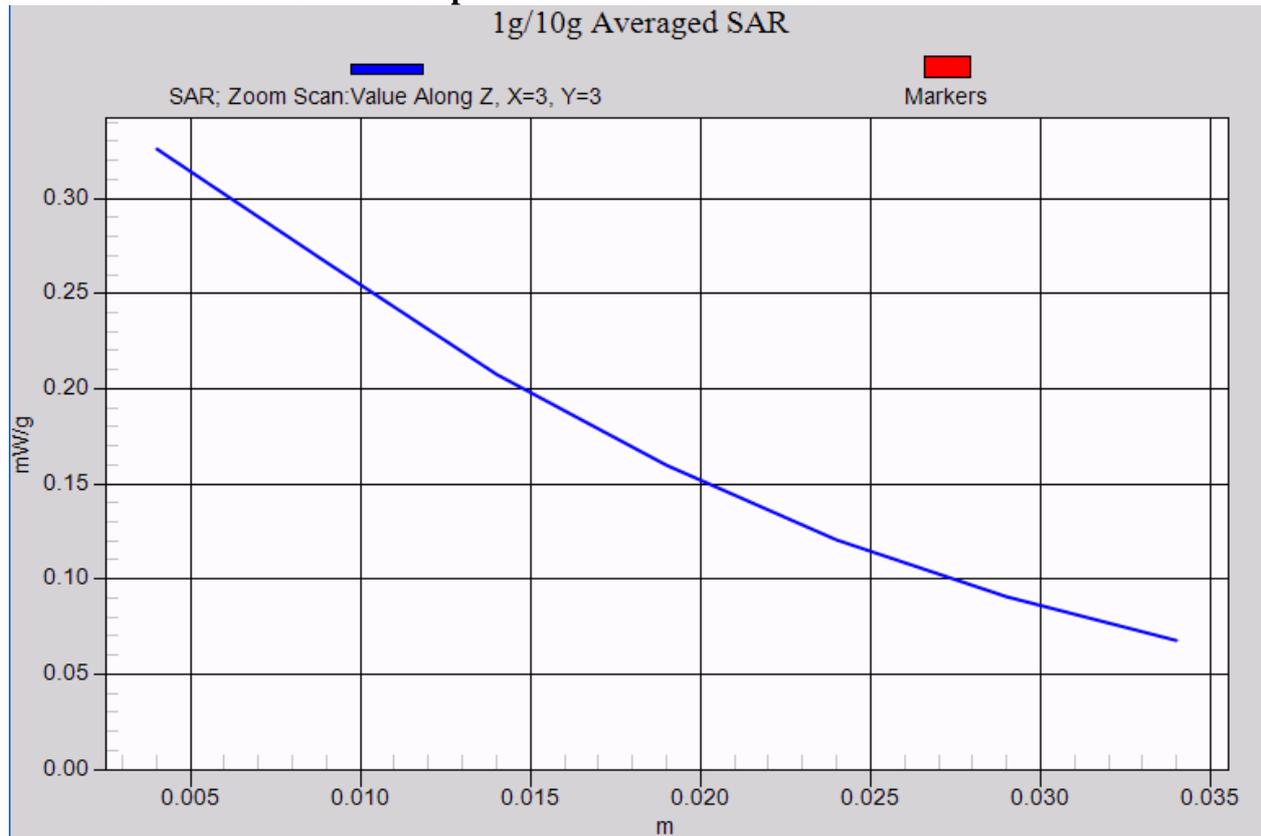
U3205 LeftHandSide touched-Close-GSM850 Channel 190



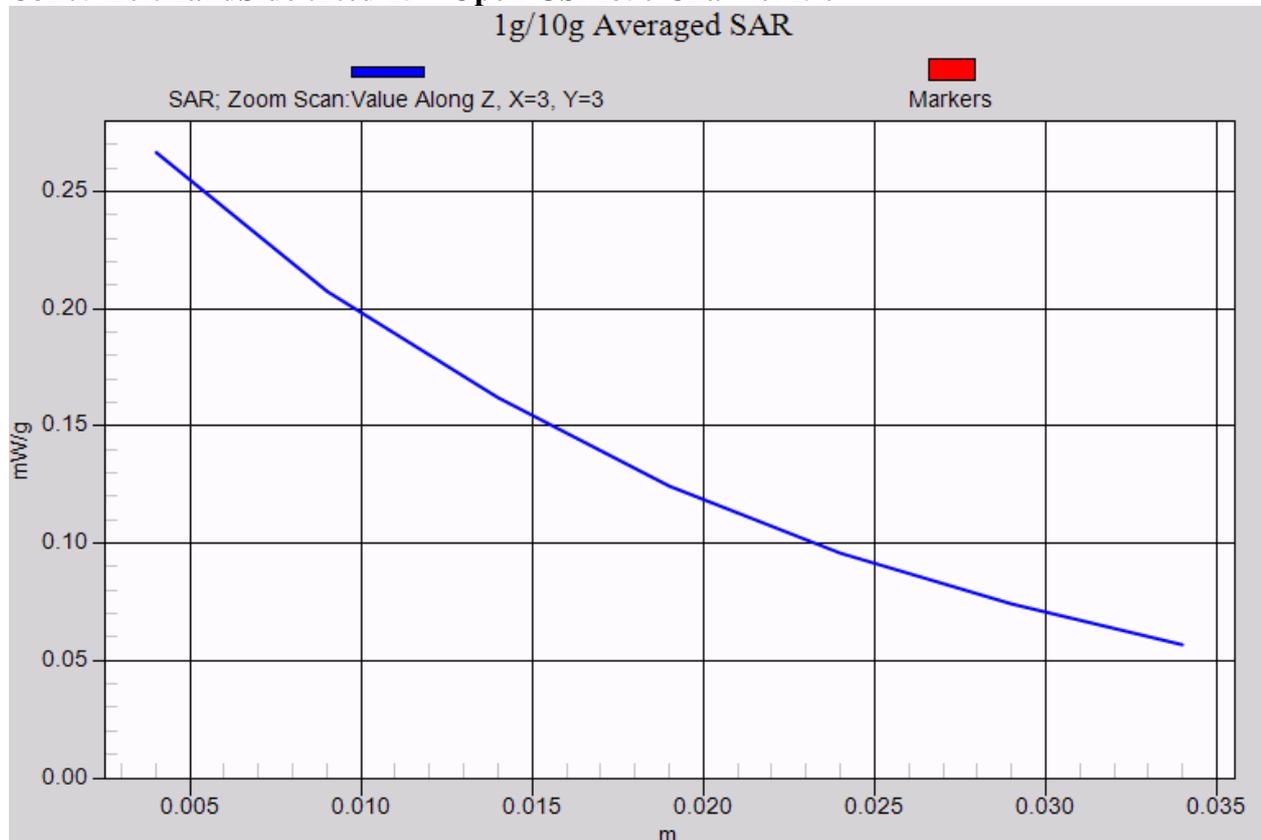
U3205 LeftHandSide tilted 15°- Close-GSM850 Channel 190



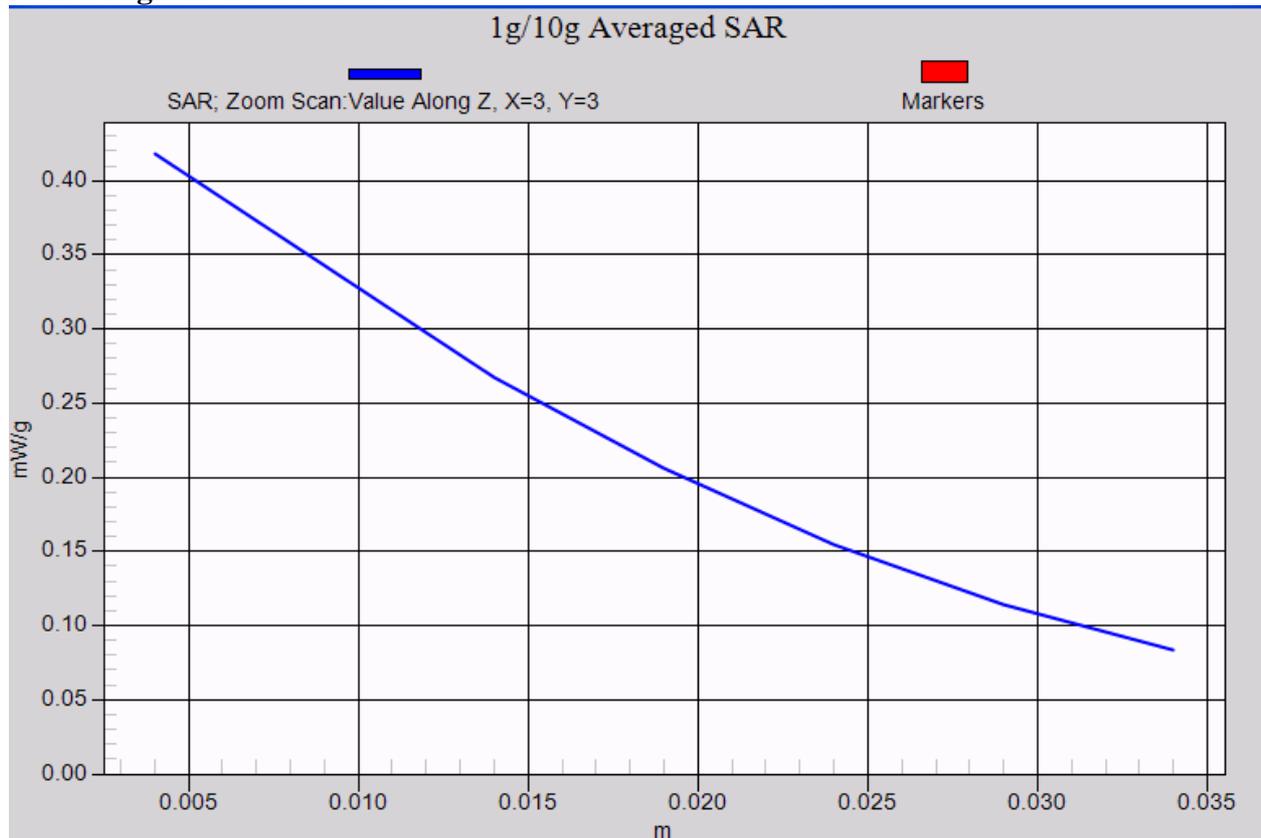
U3205 LeftHandSide touched-Open-GSM850 Channel 190



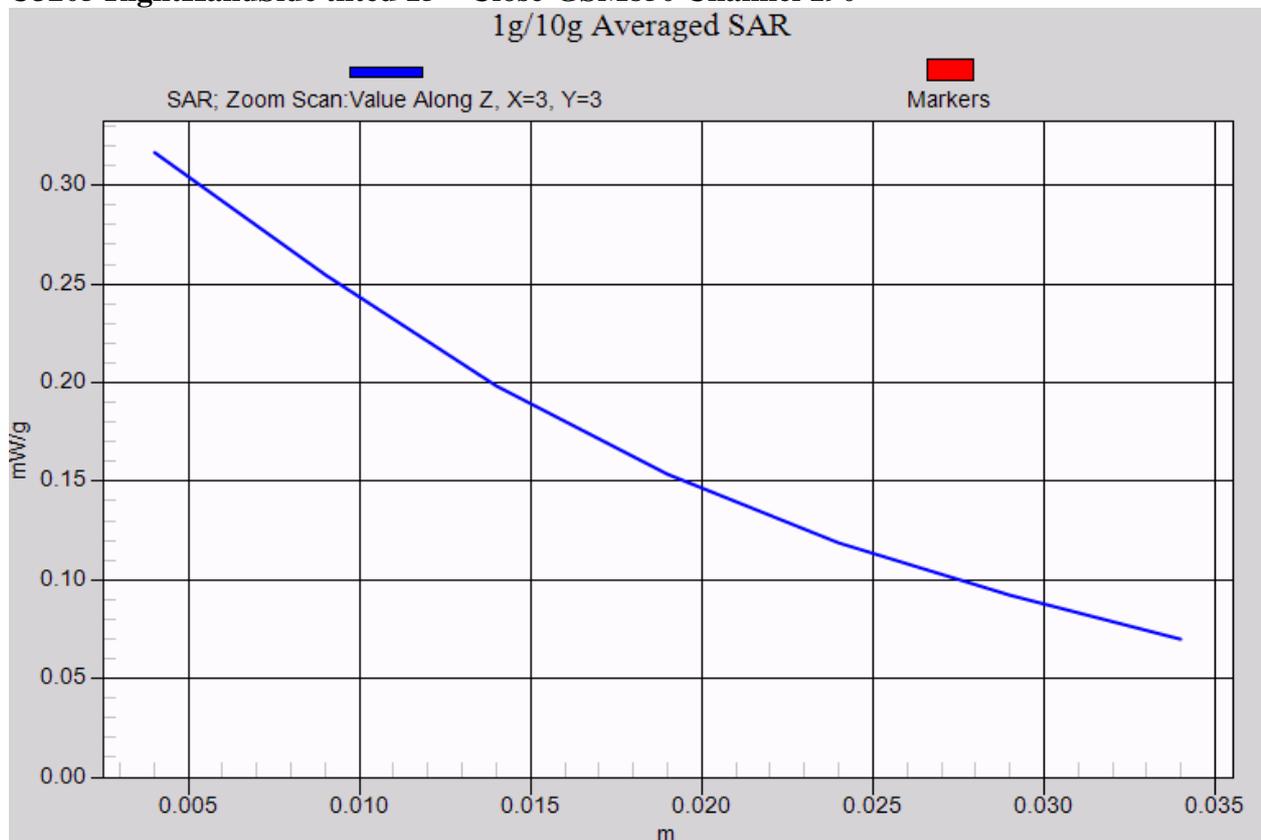
U3205 LeftHandSide tilted 15° - Open-GSM850 Channel 190



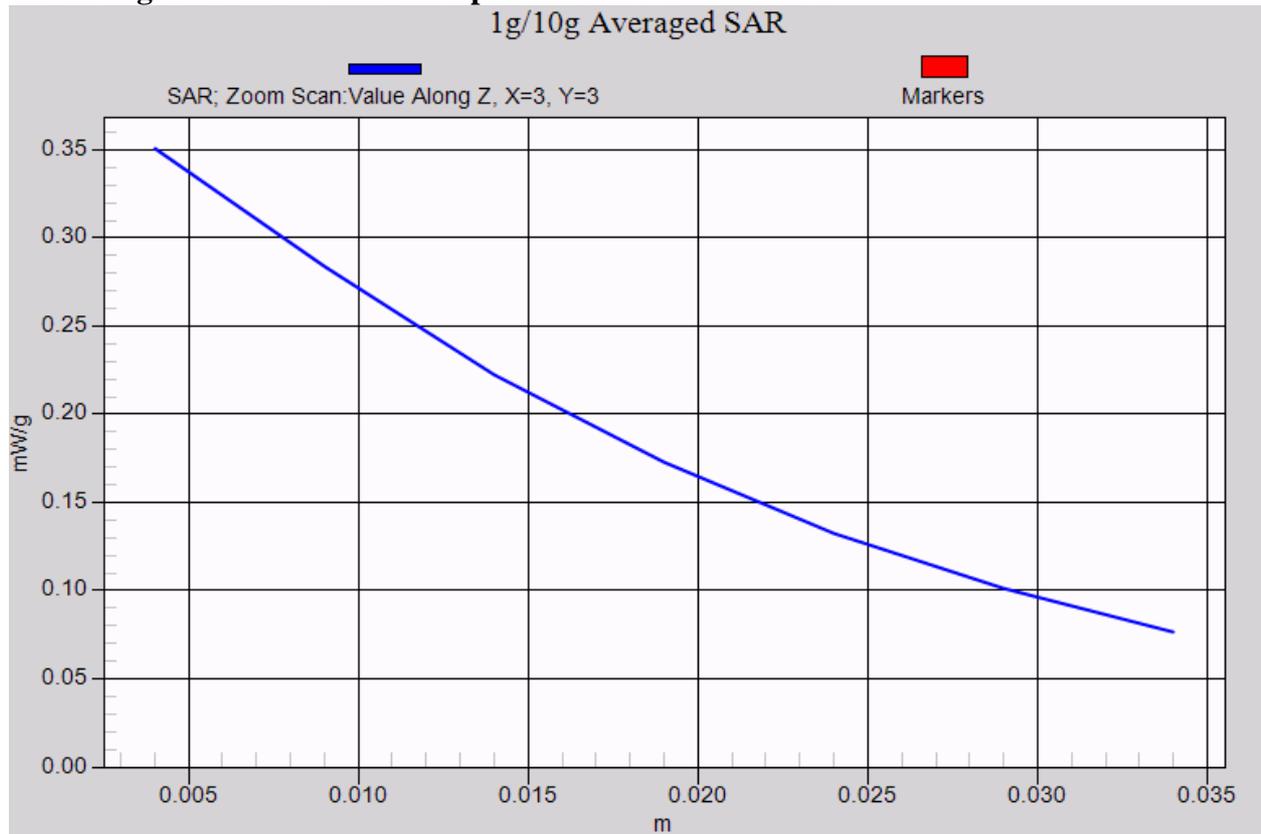
U3205 RightHandSide touched-Close-GSM850 Channel 190



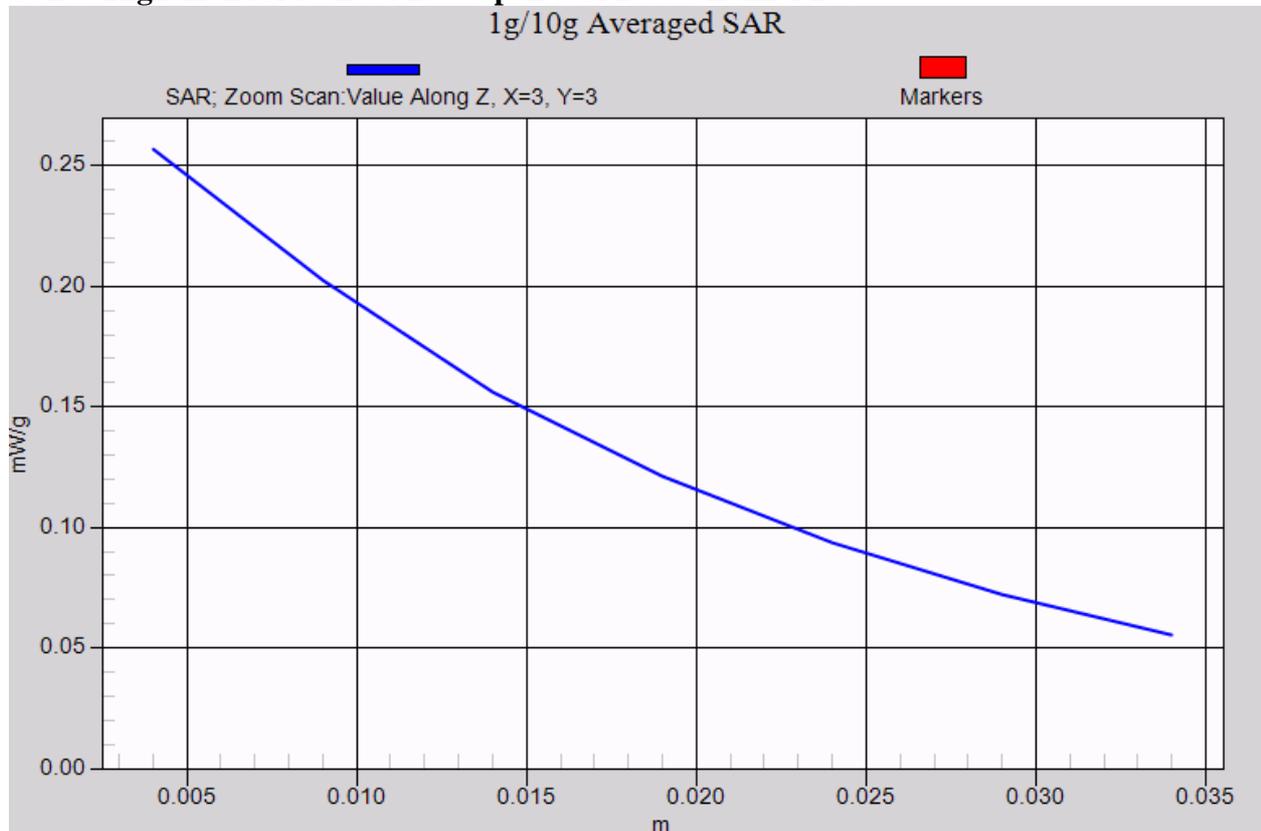
U3205 RightHandSide tilted 15° - Close-GSM850 Channel 190



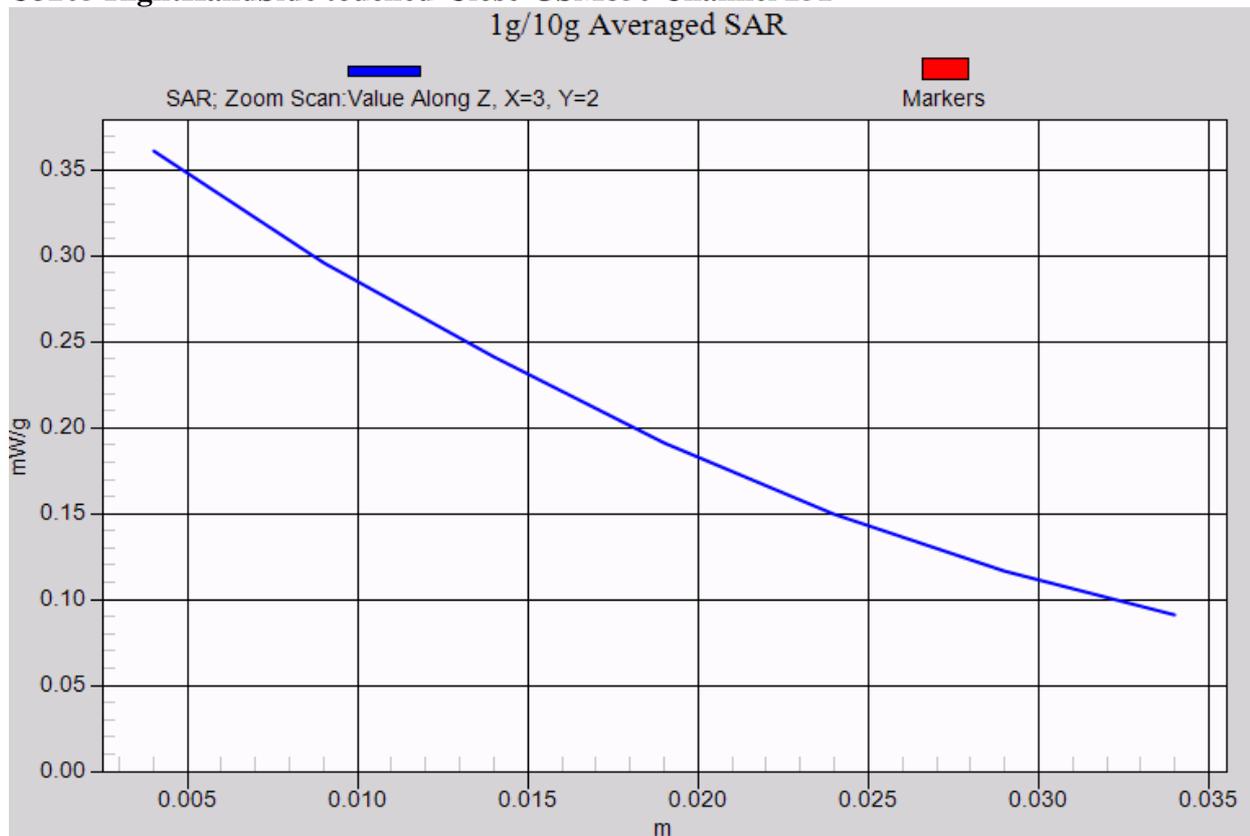
U3205 RightHandSide touched-Open-GSM850 Channel 190



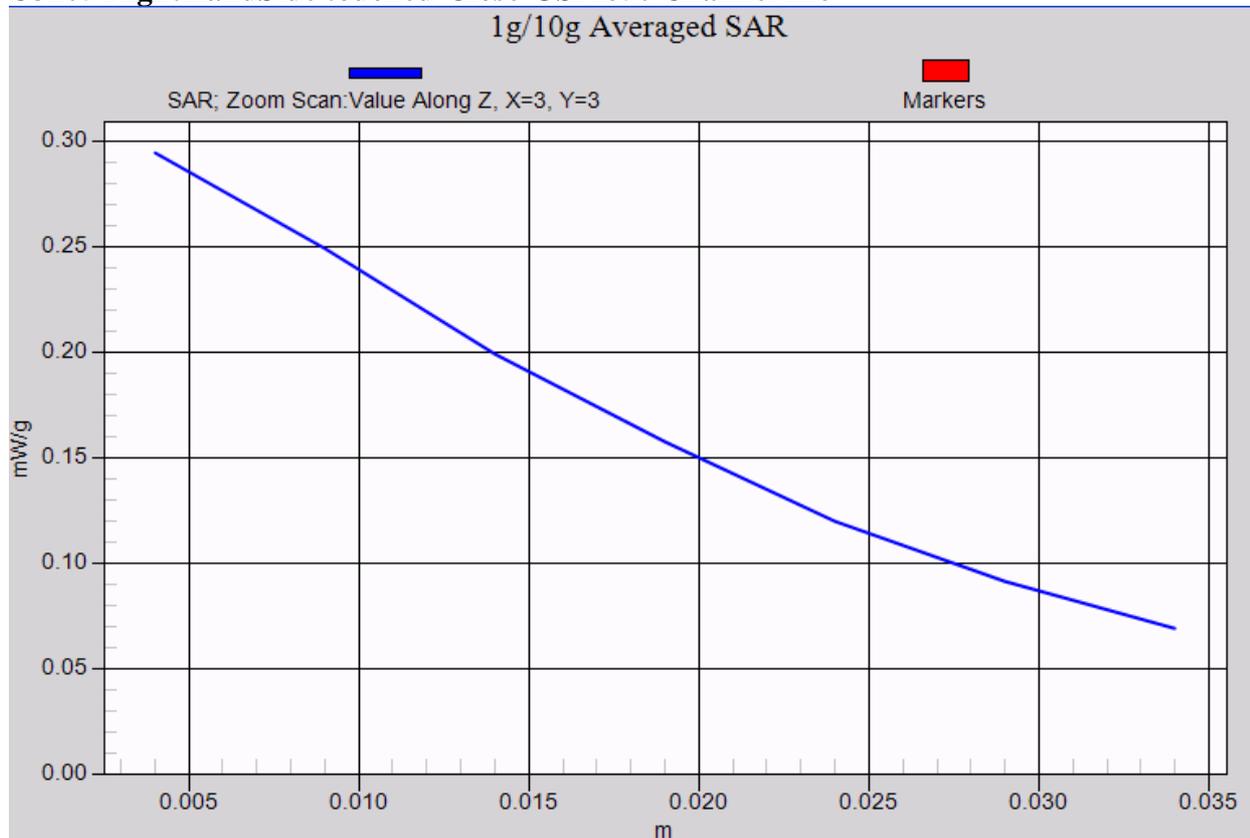
U3205 RightHandSide tilted 15° - Open-GSM850 Channel 190



U3205 RightHandSide touched-Close-GSM850 Channel 251

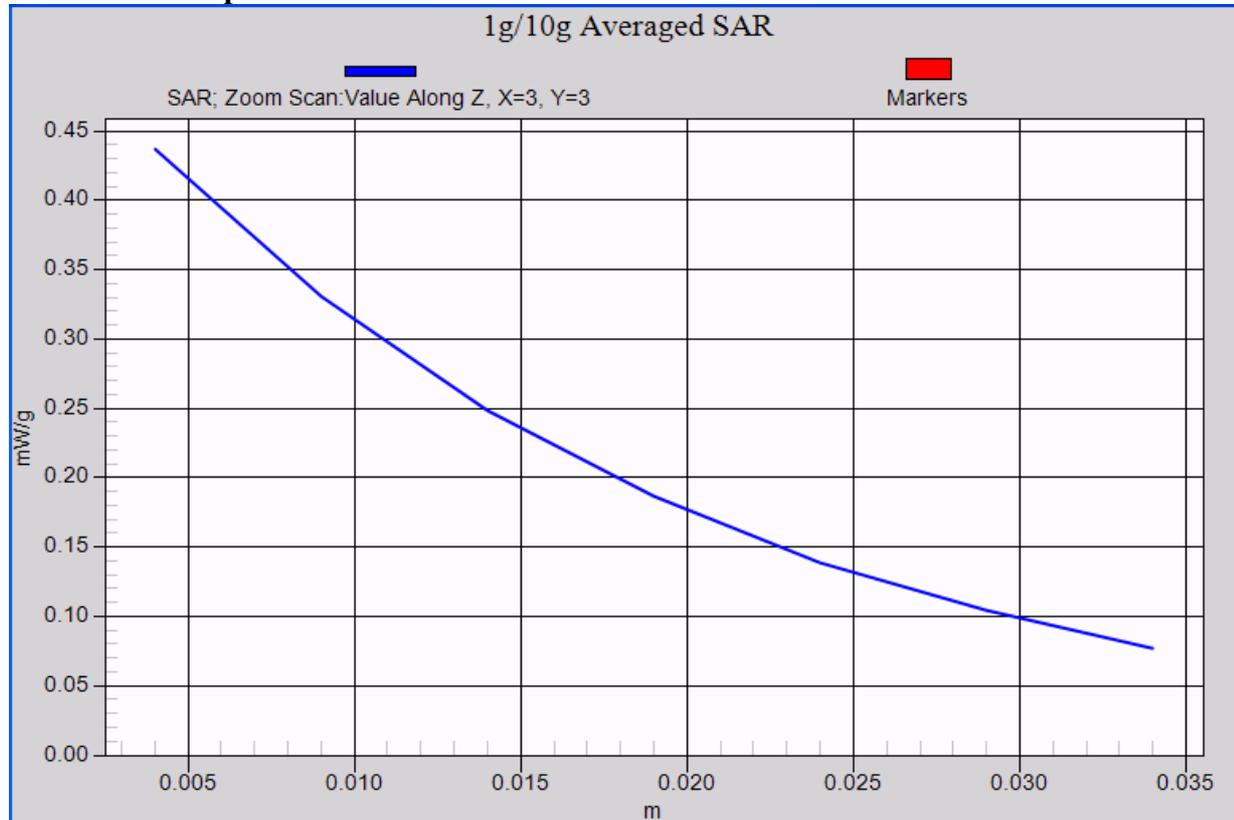


U3205 RightHandSide touched-Close-GSM850 Channel 128

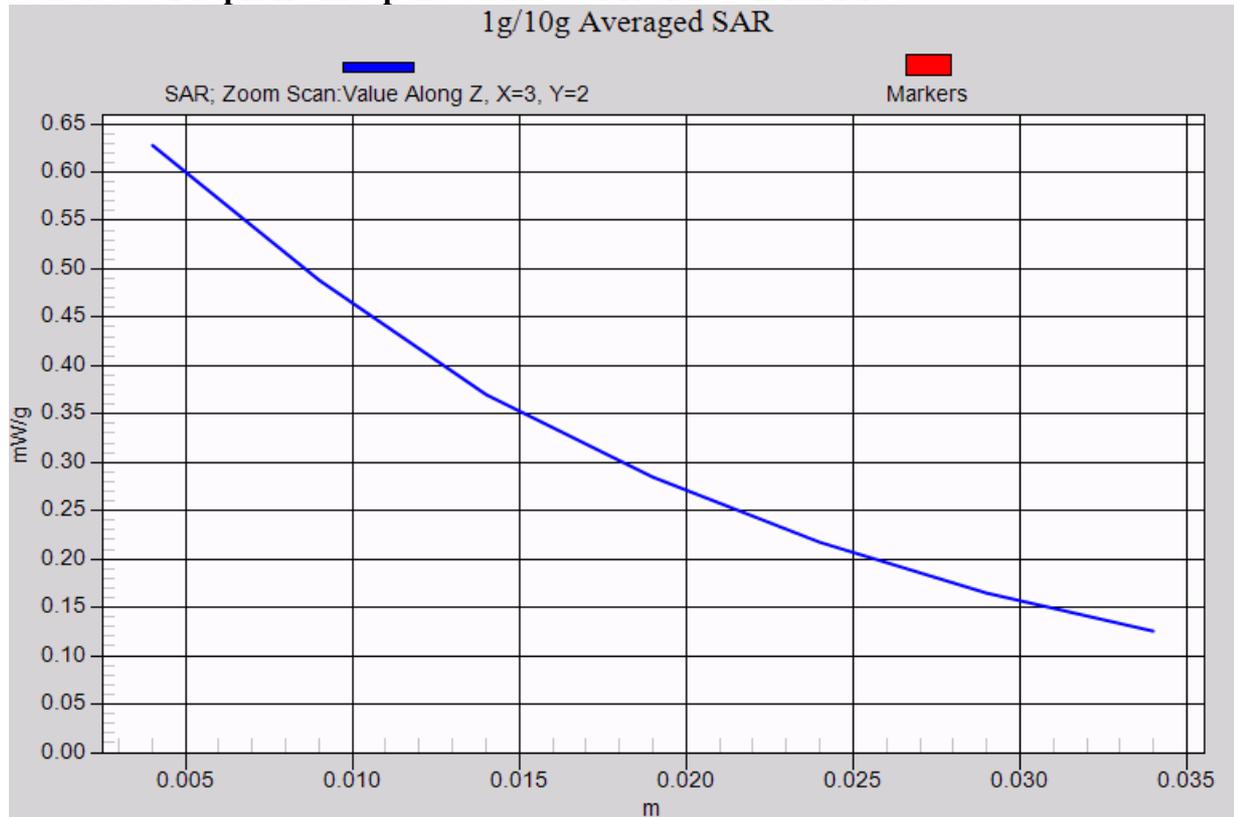


GSM850 body:

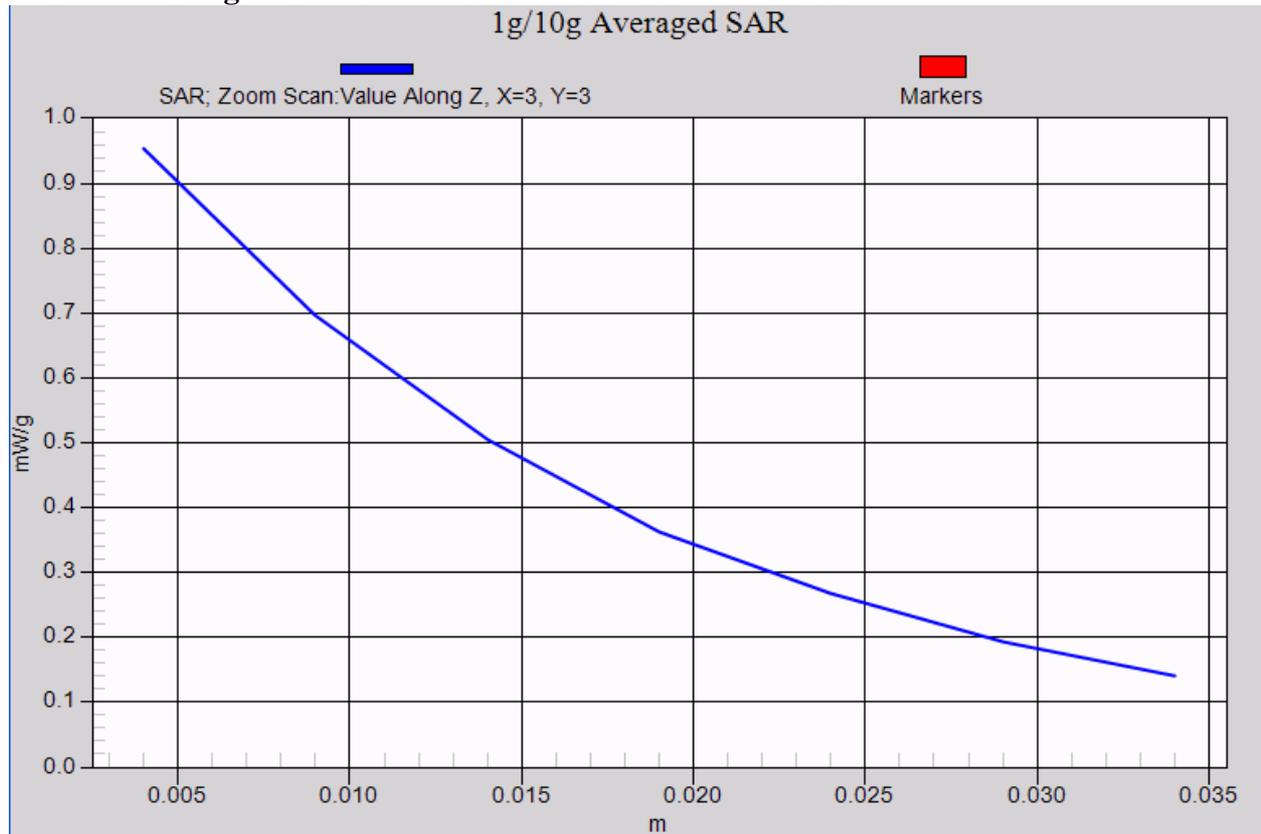
U3205 towards phantom-Close-GSM850 GPRS 2TS Channel 190



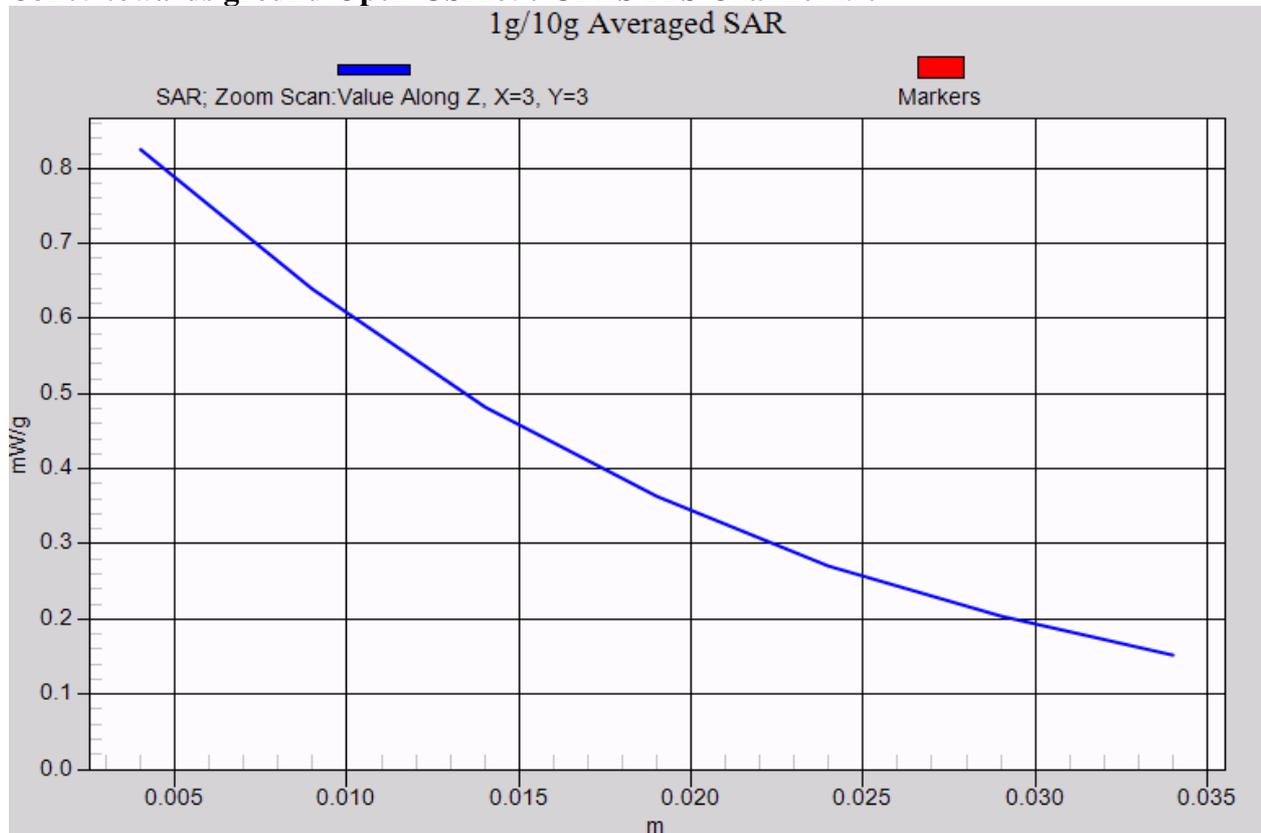
U3205 towards phantom-Open-GSM850 GPRS 2TS Channel 190



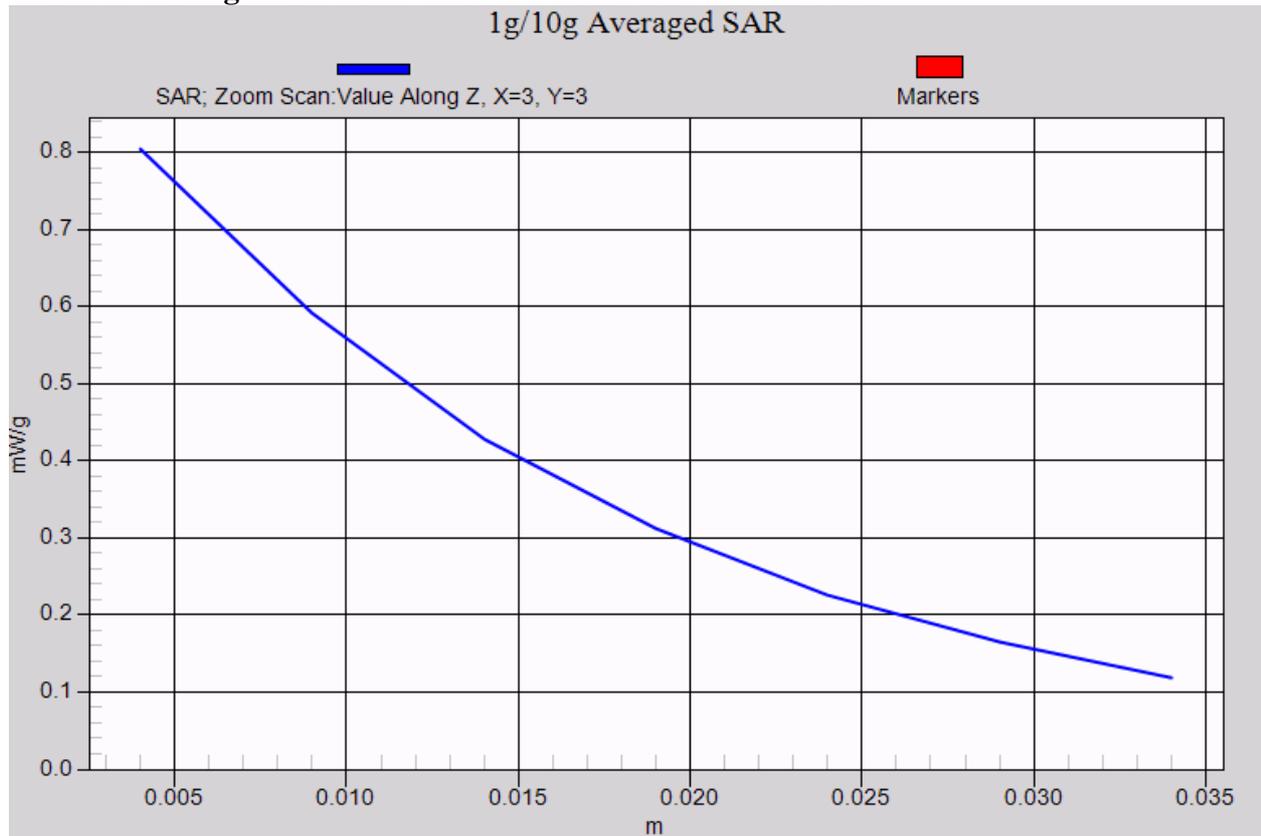
U3205 towards ground-Close-GSM850 GPRS 2TS Channel 190



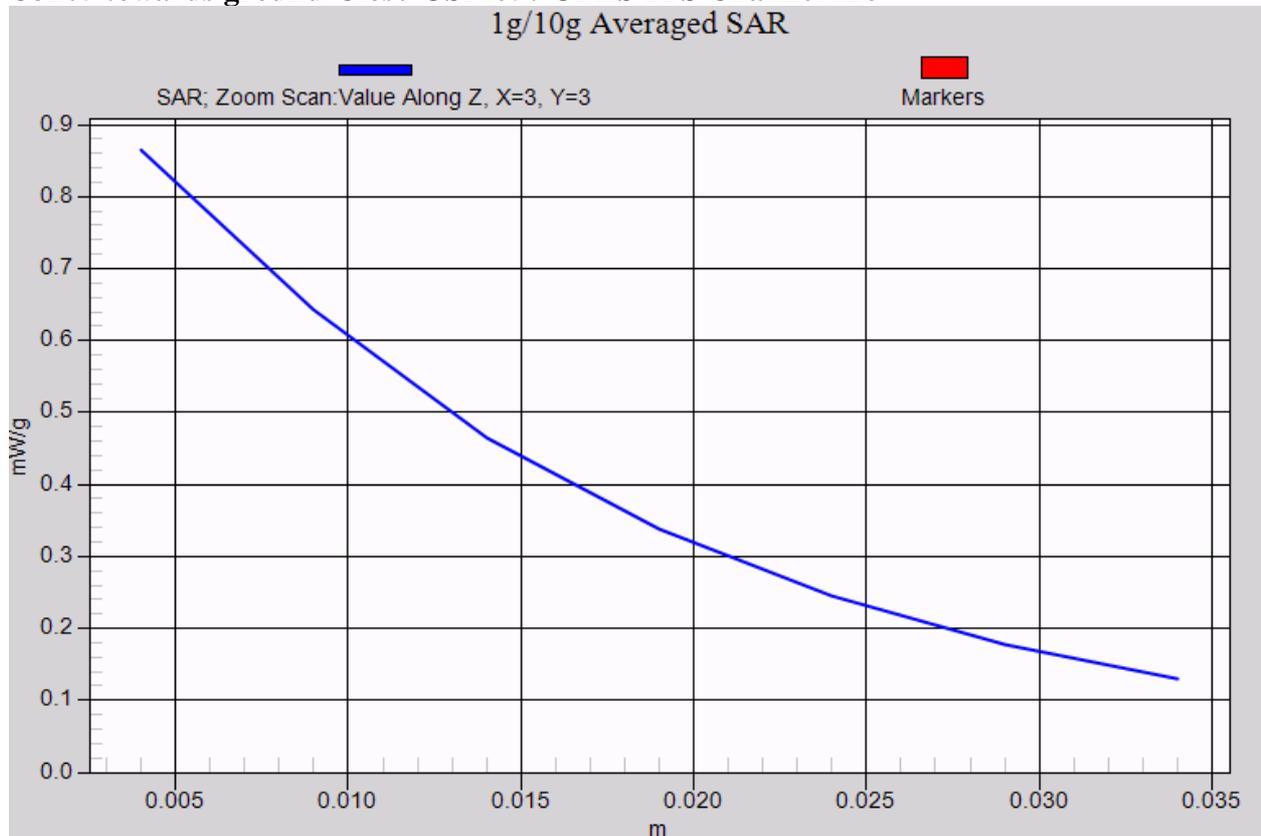
U3205 towards ground-Open-GSM850 GPRS 2TS Channel 190



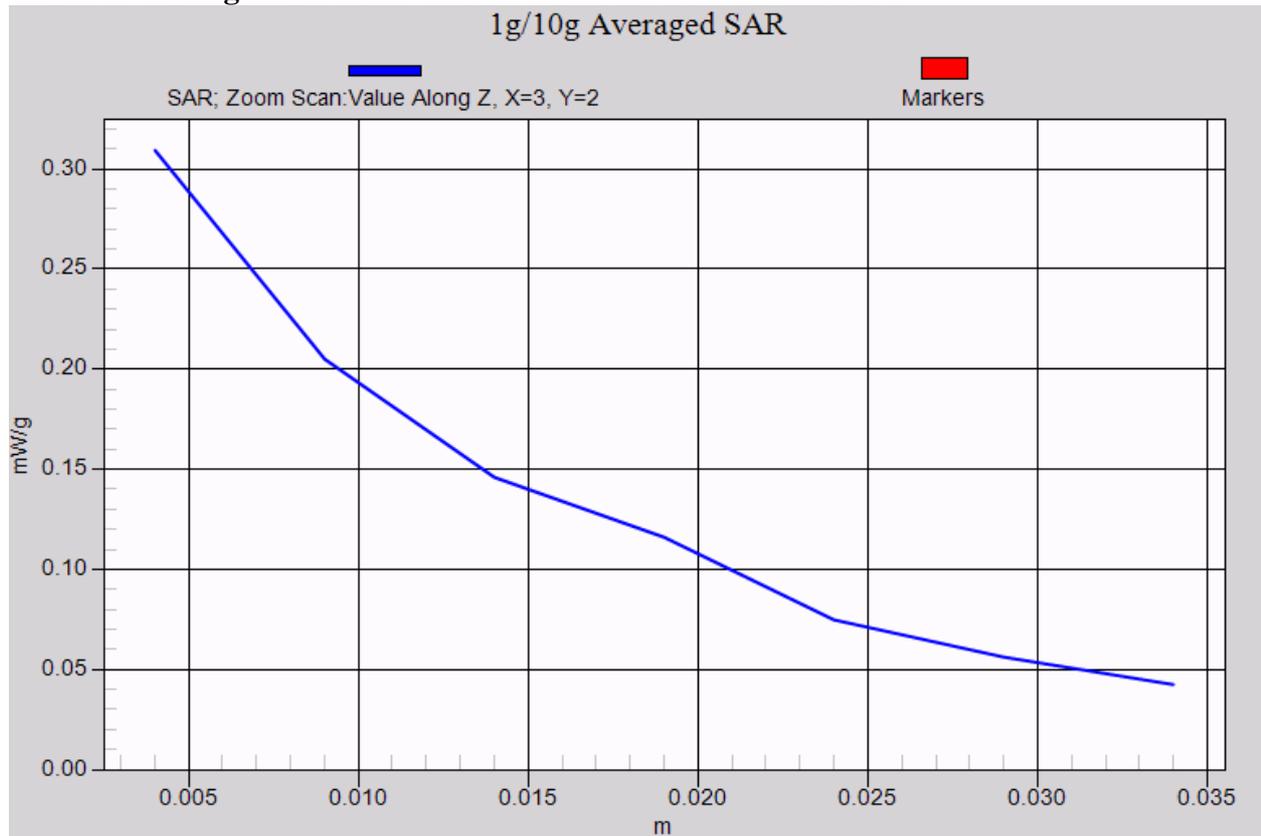
U3205 towards ground-Close-GSM850 GPRS 2TS Channel 251



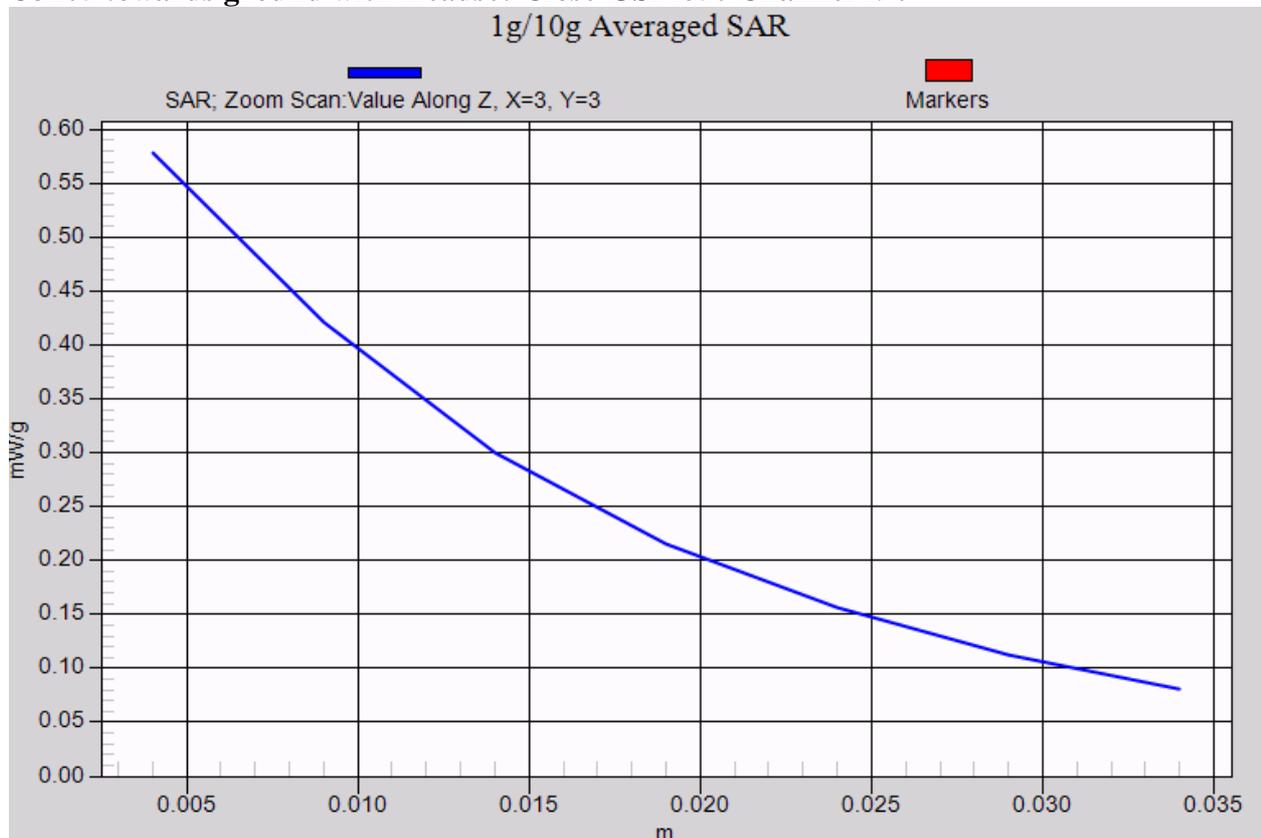
U3205 towards ground-Close-GSM850 GPRS 2TS Channel 128



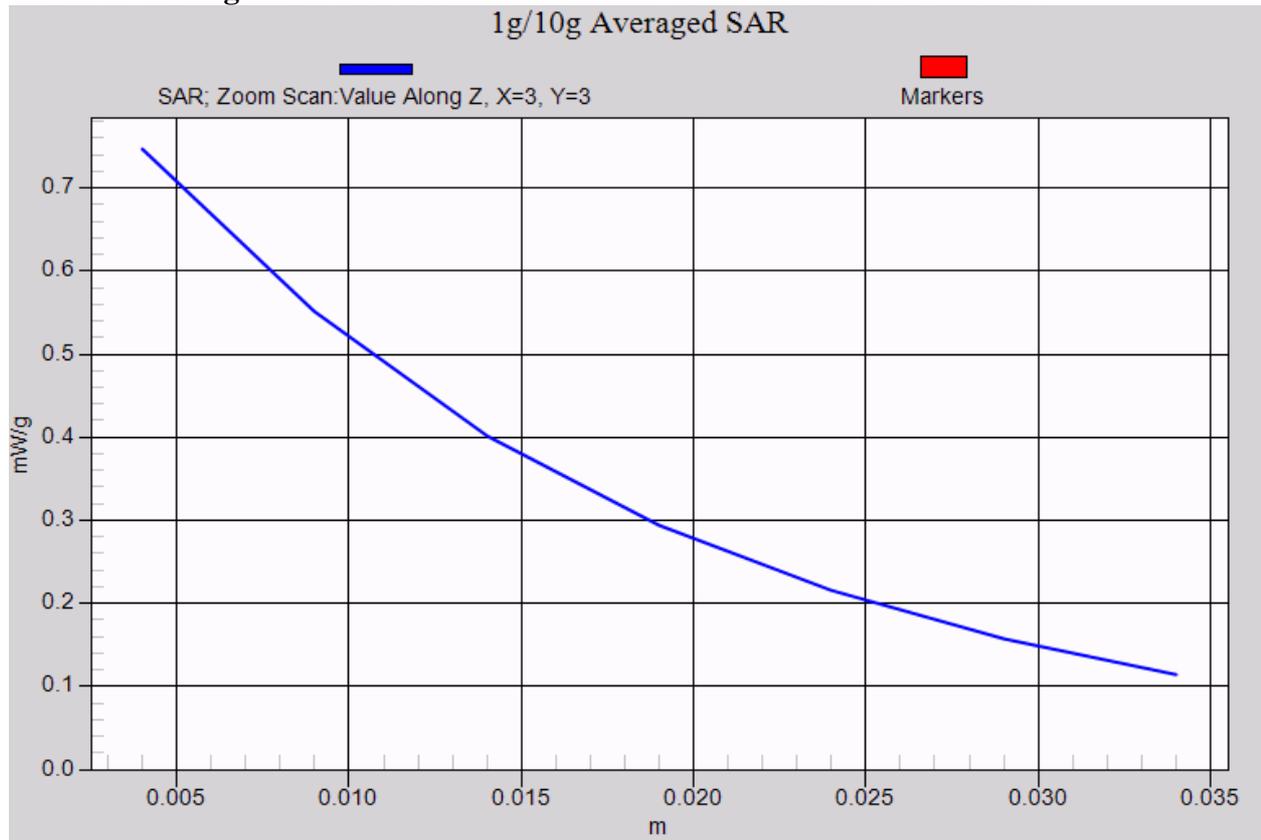
U3205 towards ground-Close-GSM850 EGPRS 2TS Channel 190



U3205 towards ground with Headset-Close-GSM850 Channel 190

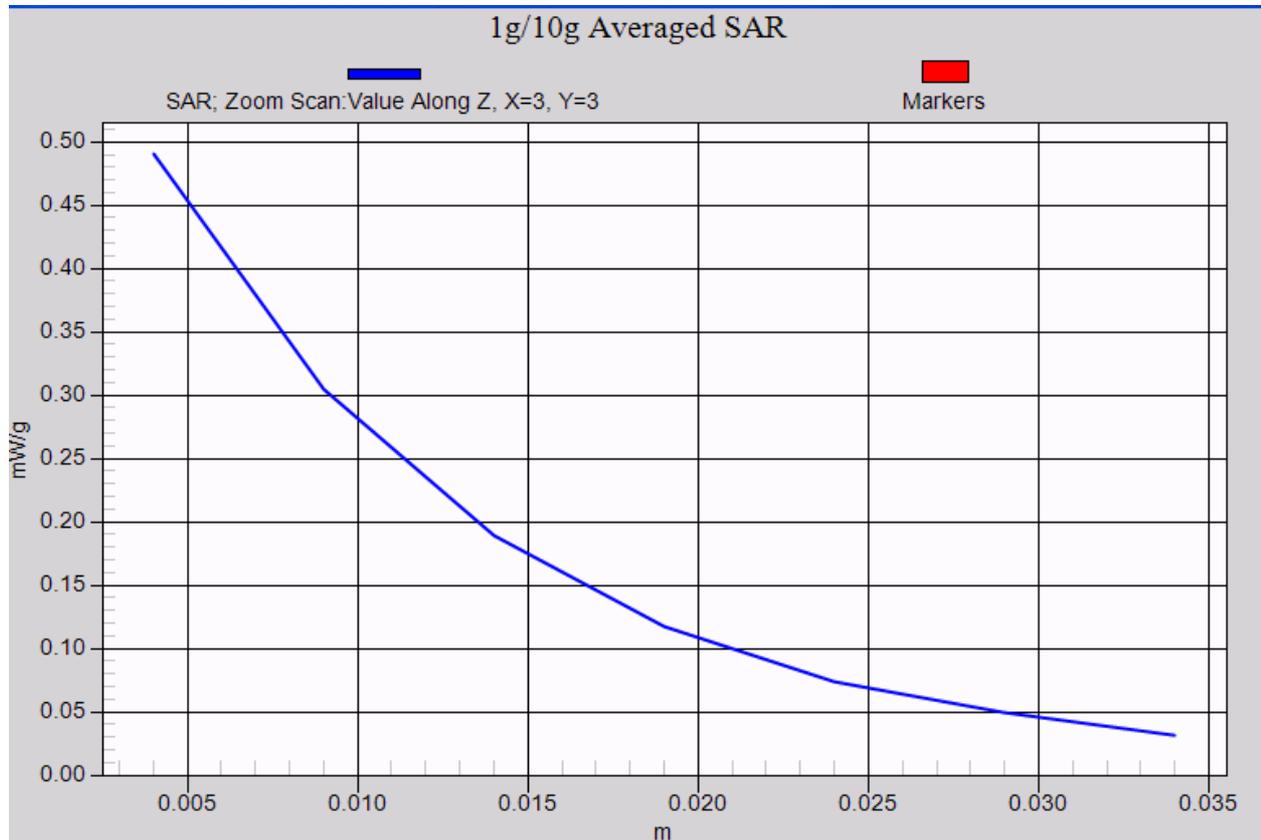


U3205 towards ground with Bluetooth Headset-Close-GSM850 Channel 190

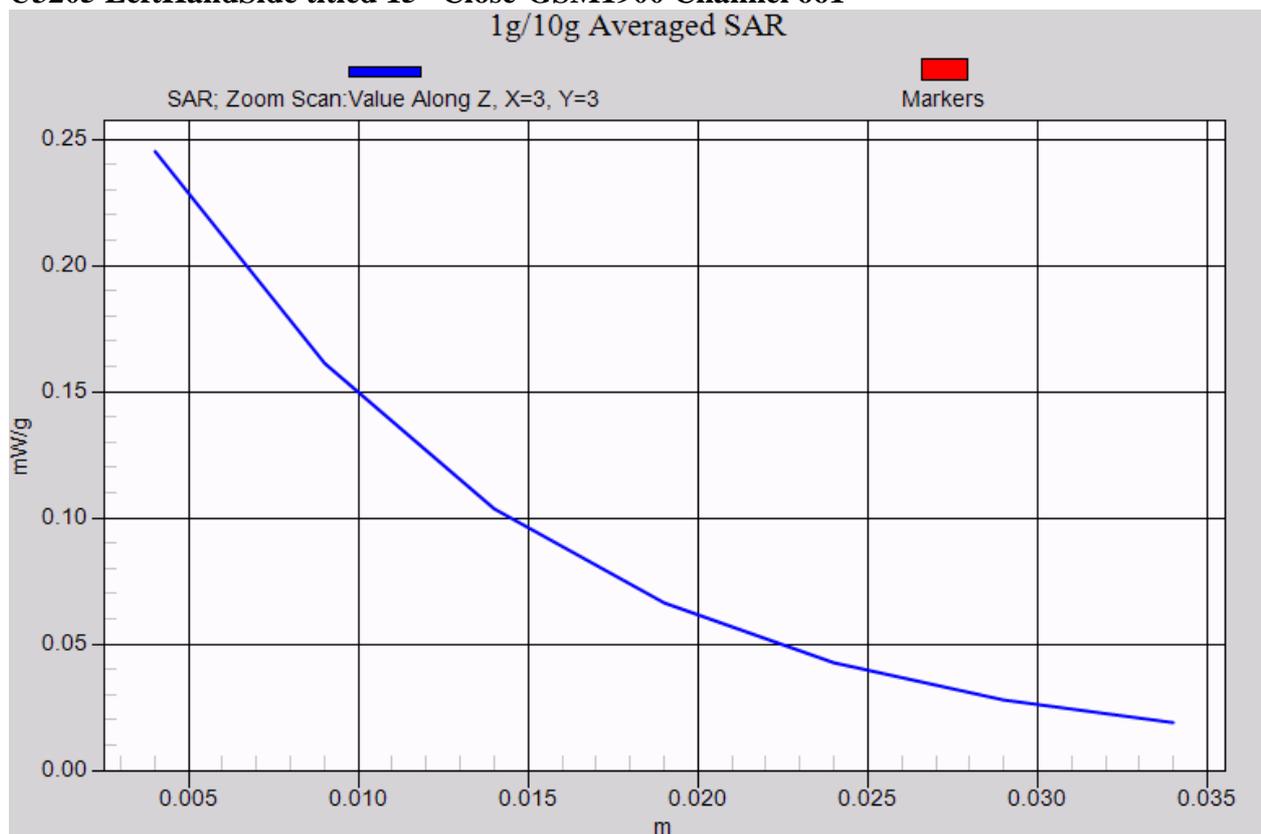


GSM1900 head:

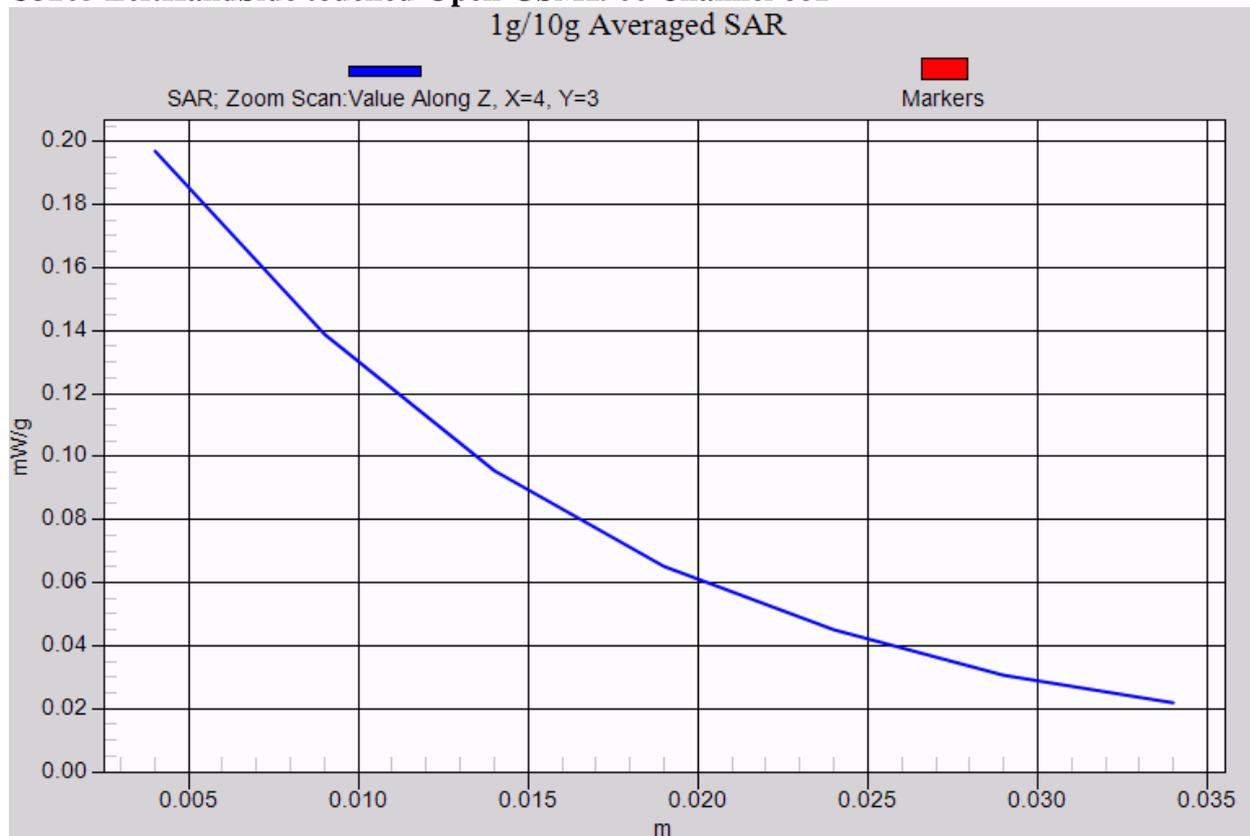
U3205 LeftHandSide touched-Close-GSM1900 Channel 661



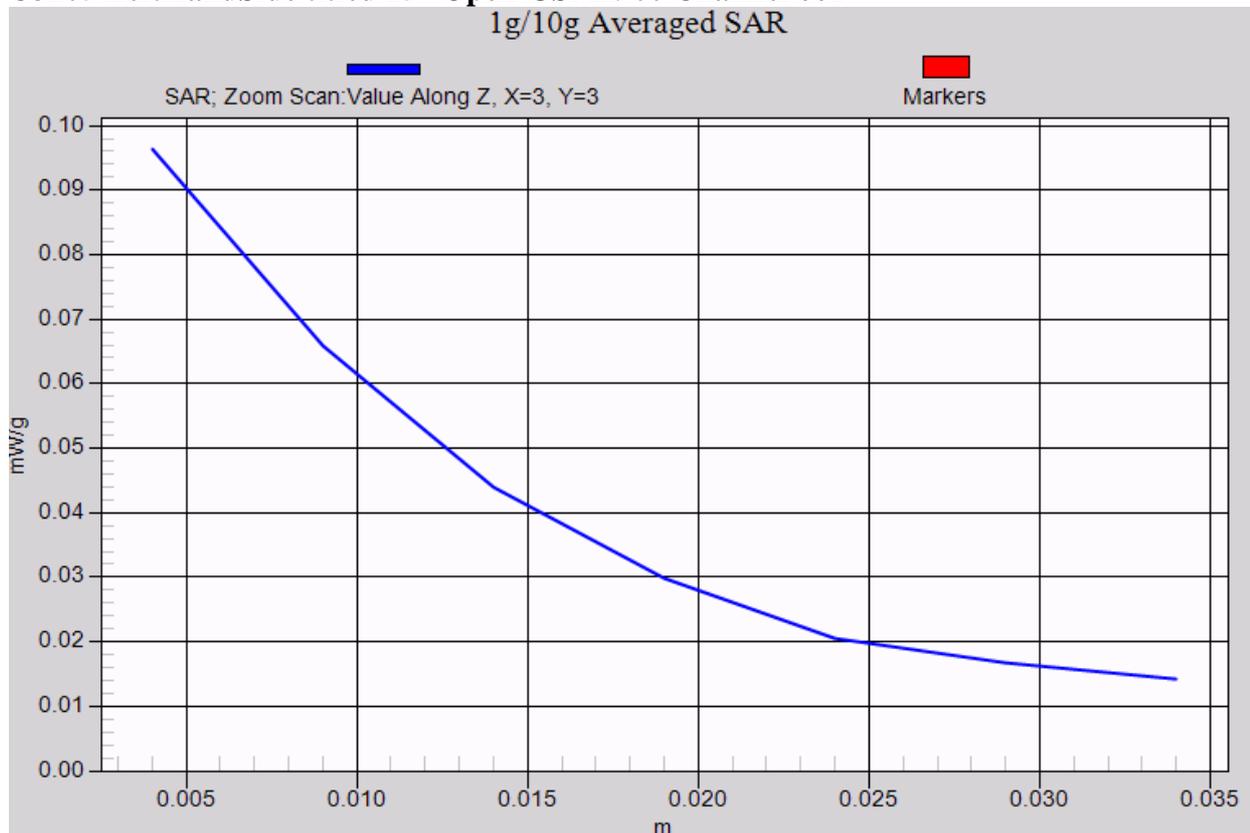
U3205 LeftHandSide titled 15°-Close-GSM1900 Channel 661



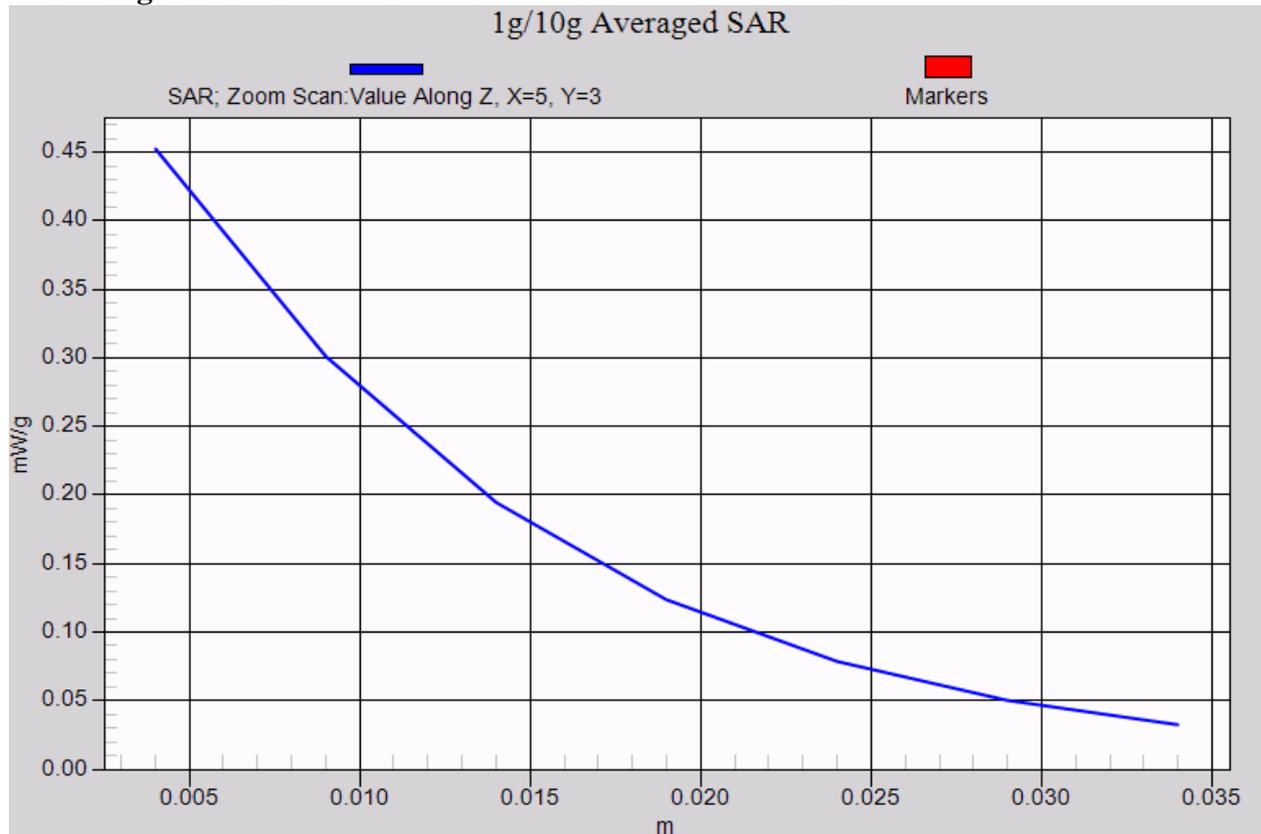
U3205 LeftHandSide touched-Open-GSM1900 Channel 661



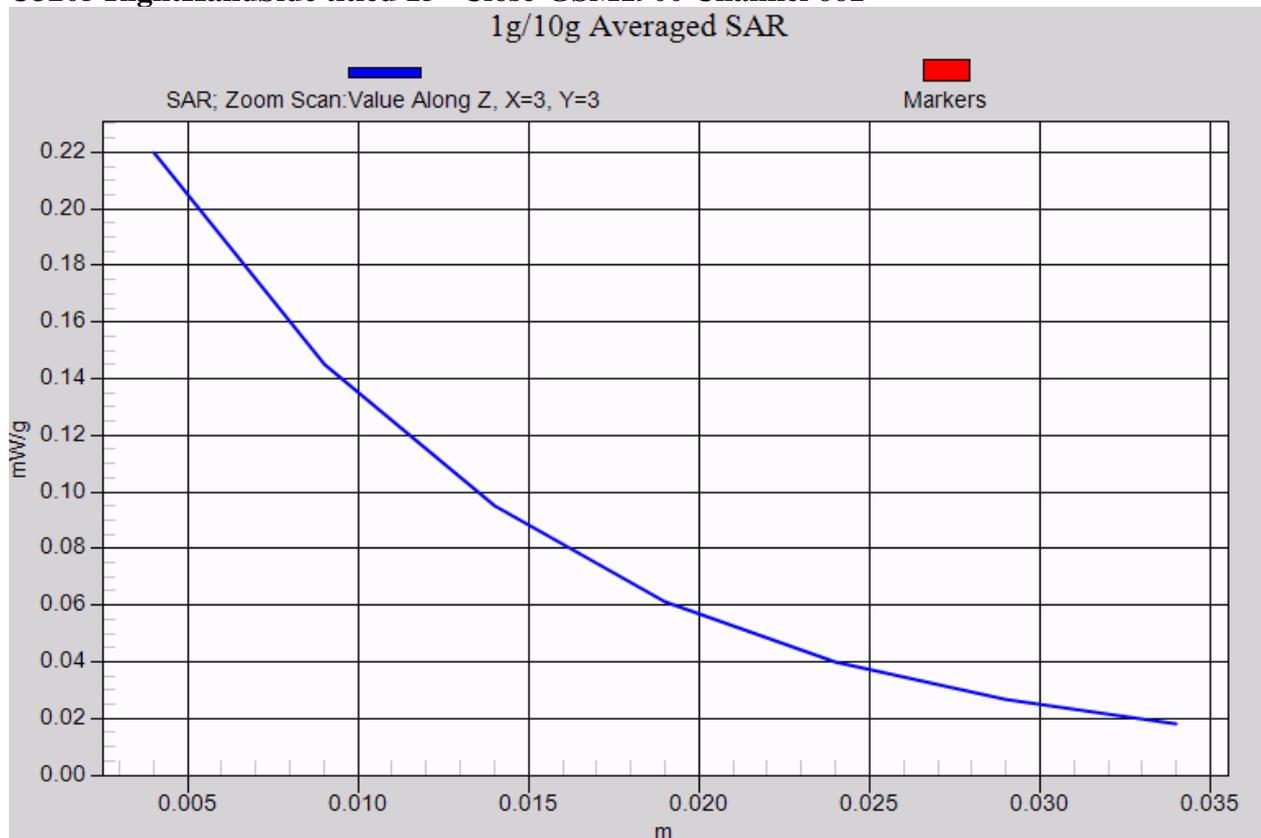
U3205 LeftHandSide titled 15°-Open-GSM1900 Channel 661



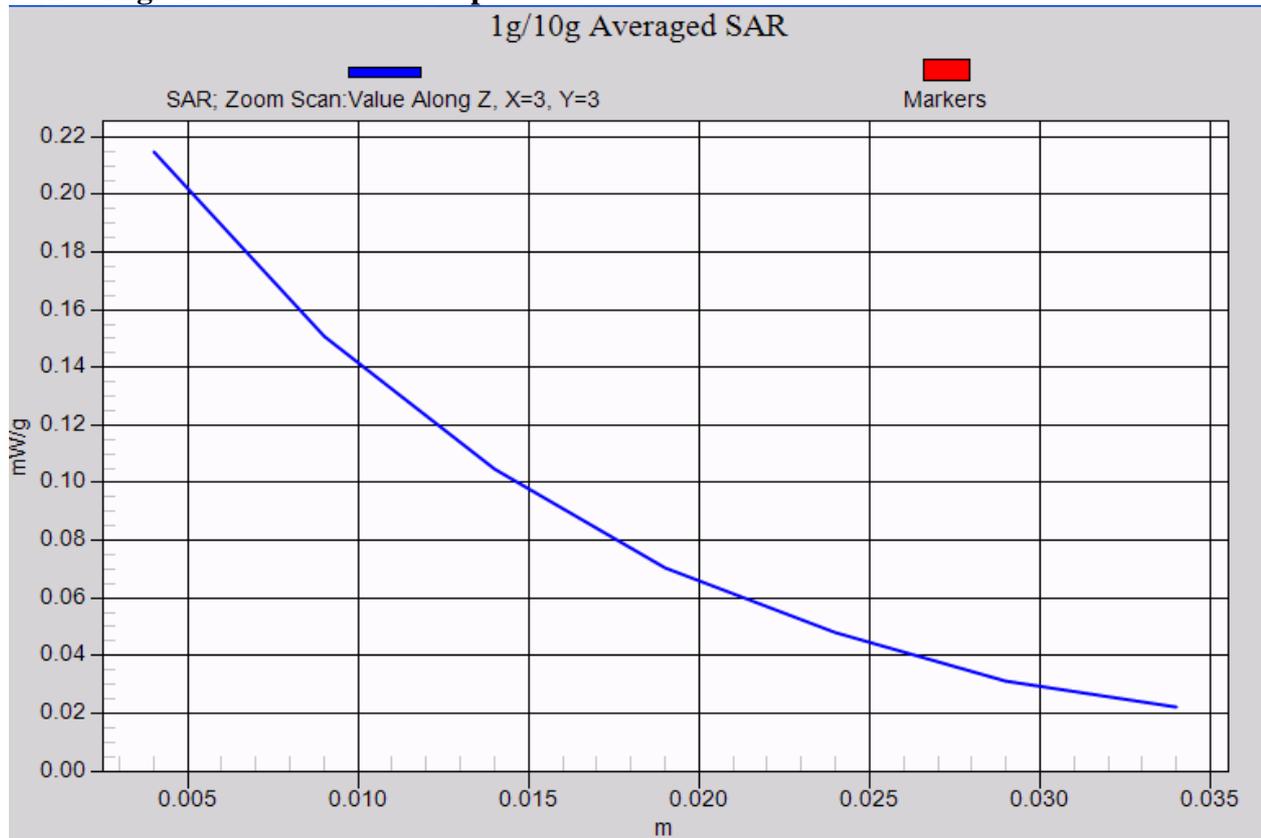
U3205 RightHandSide touched-Close-GSM1900 Channel 661



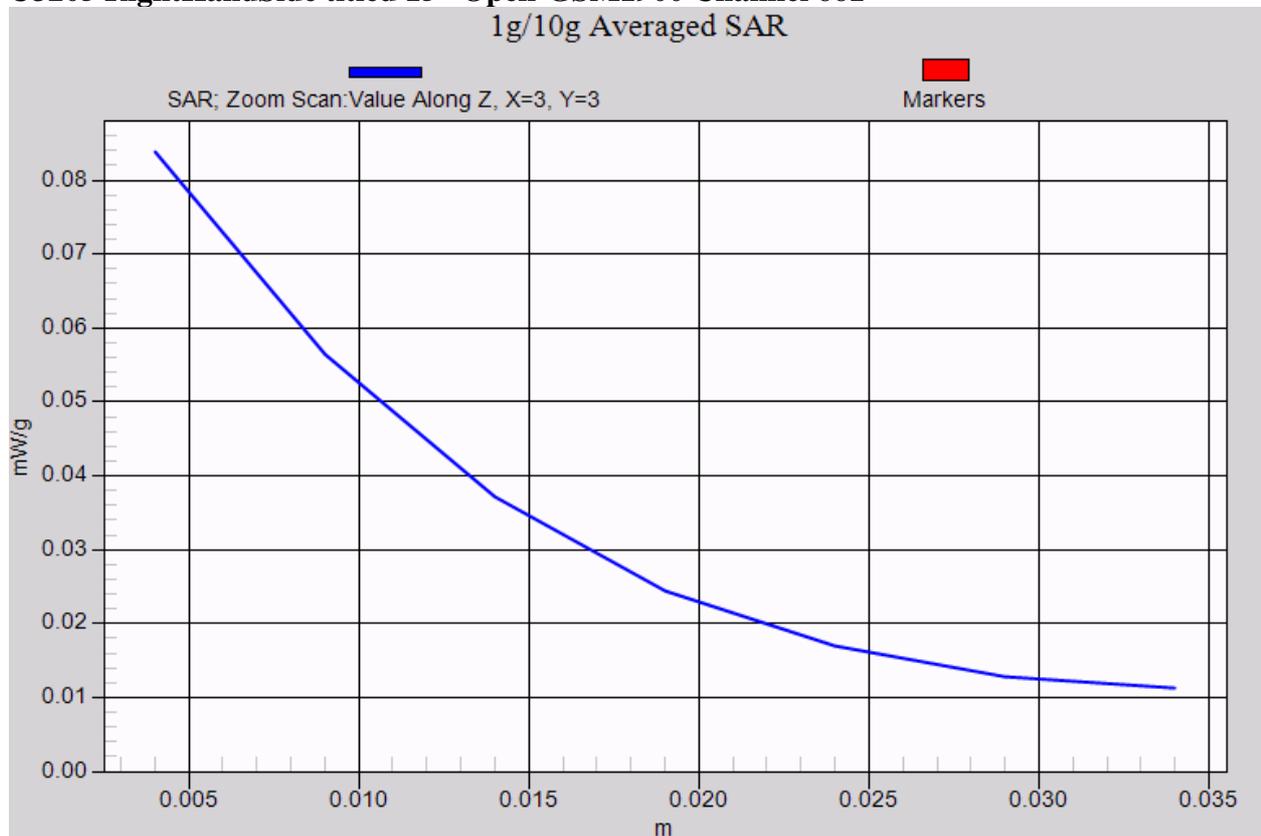
U3205 RightHandSide titled 15°-Close-GSM1900 Channel 661



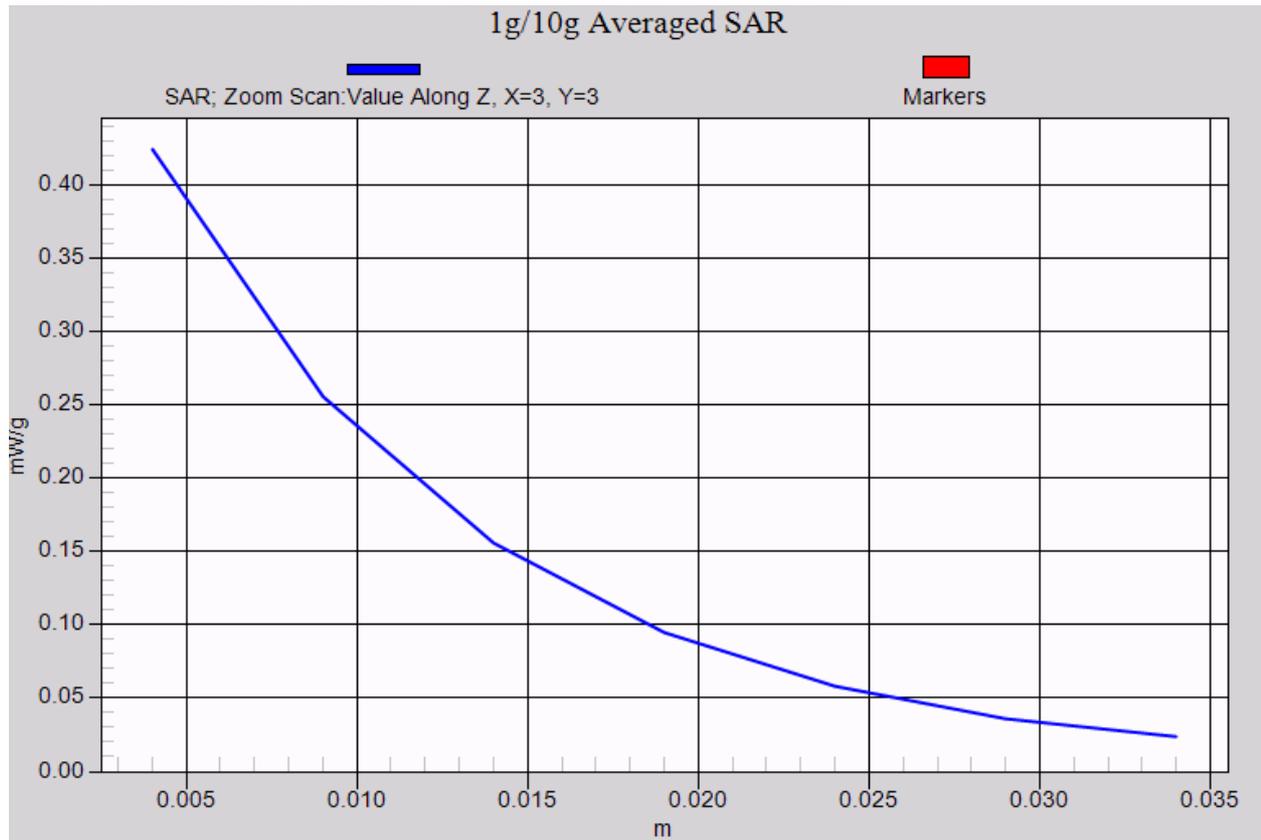
U3205 RightHandSide touched-Open-GSM1900 Channel 661



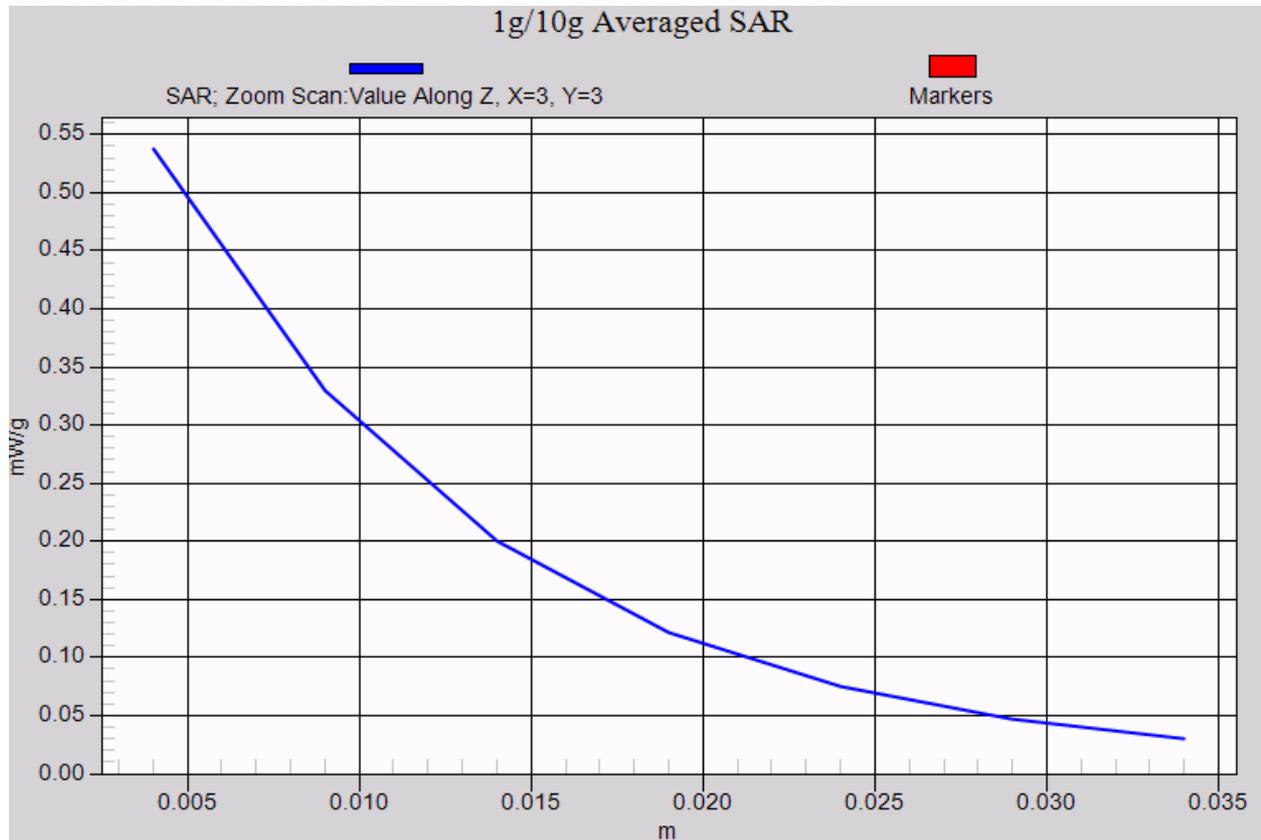
U3205 RightHandSide titled 15°-Open-GSM1900 Channel 661



U3205 LeftHandSide titled 15°-Close-GSM1900 Channel 810

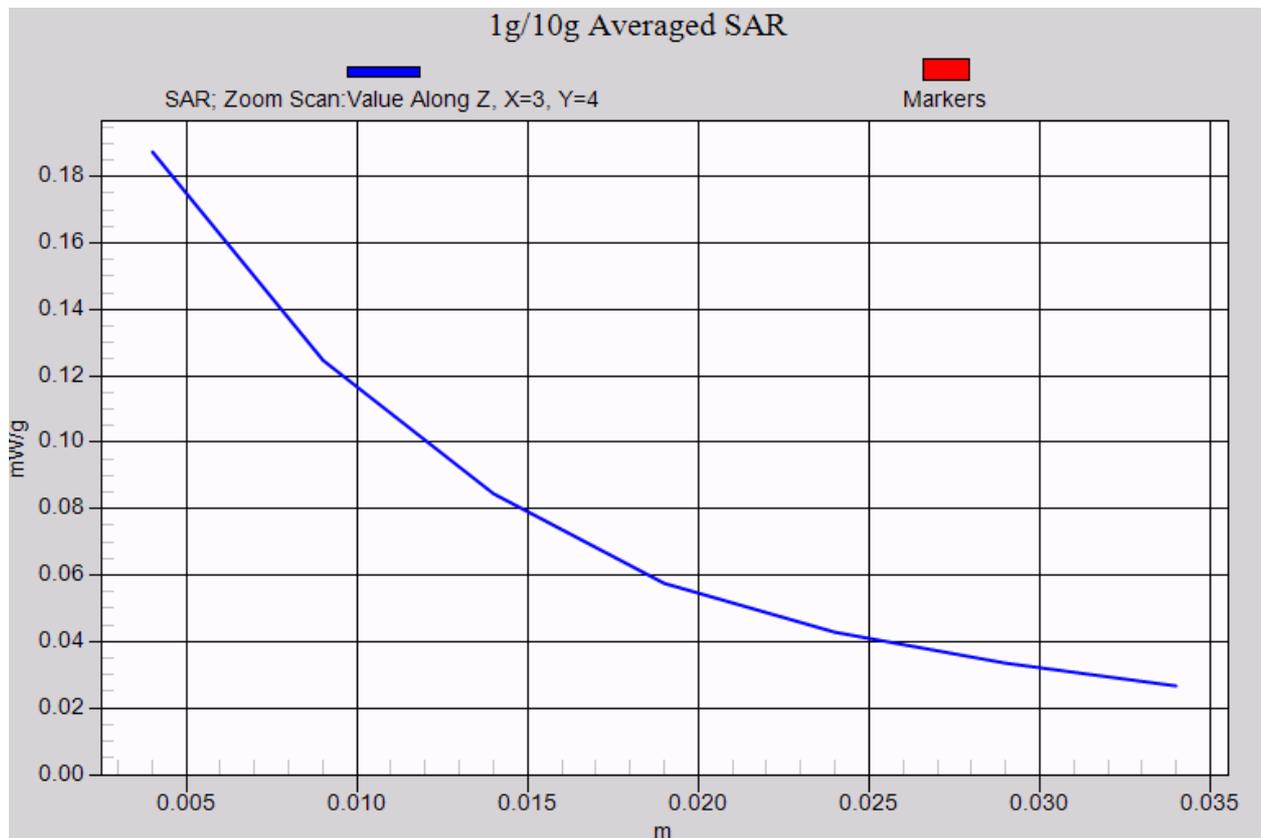
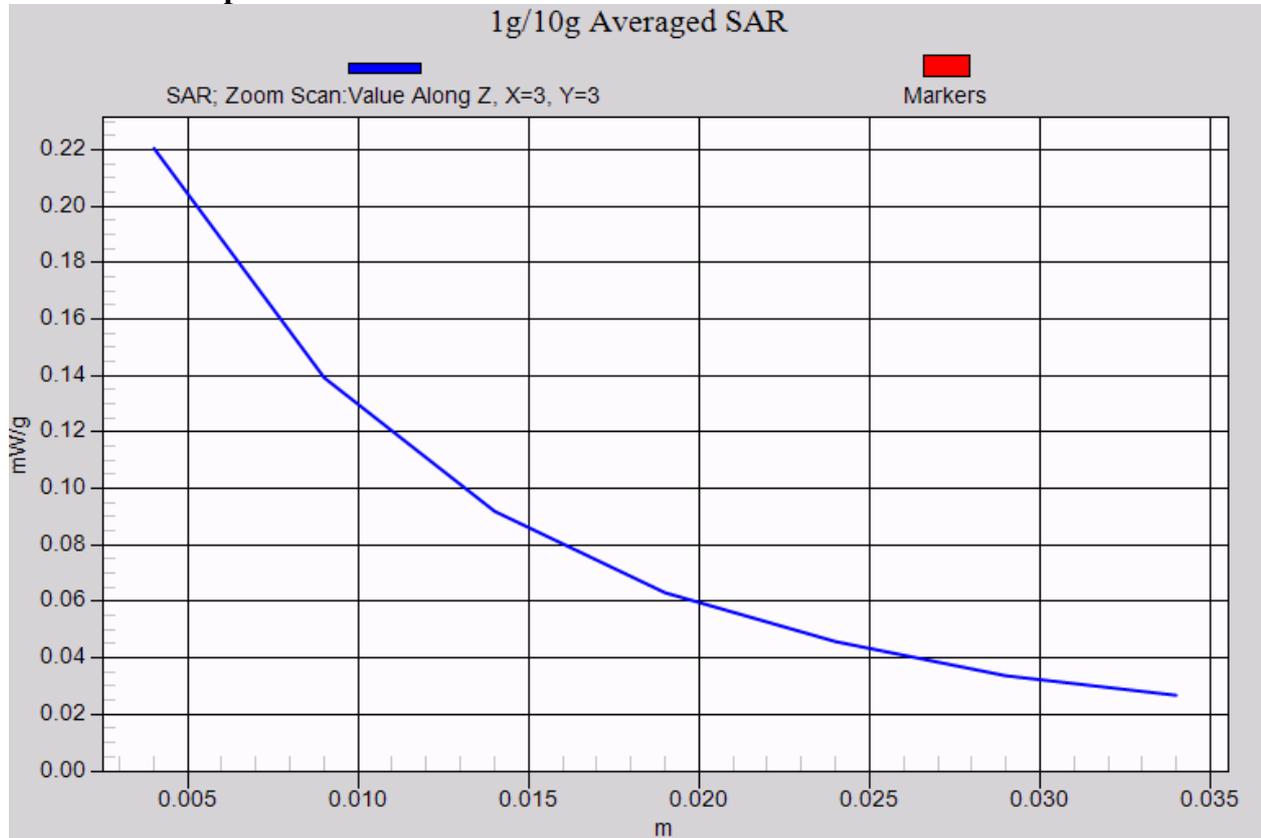


U3205 LeftHandSide titled 15°-Close-GSM1900 Channel 512

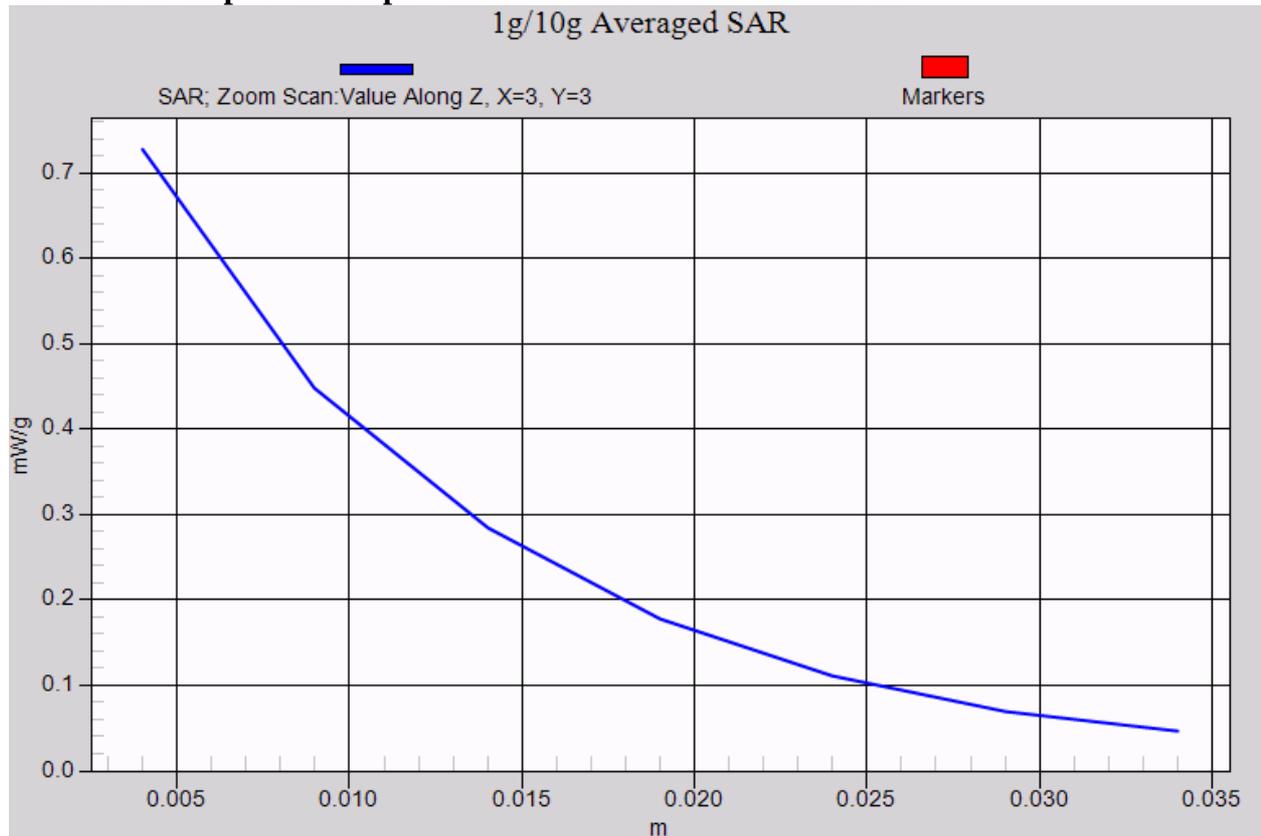


GSM1900 body:

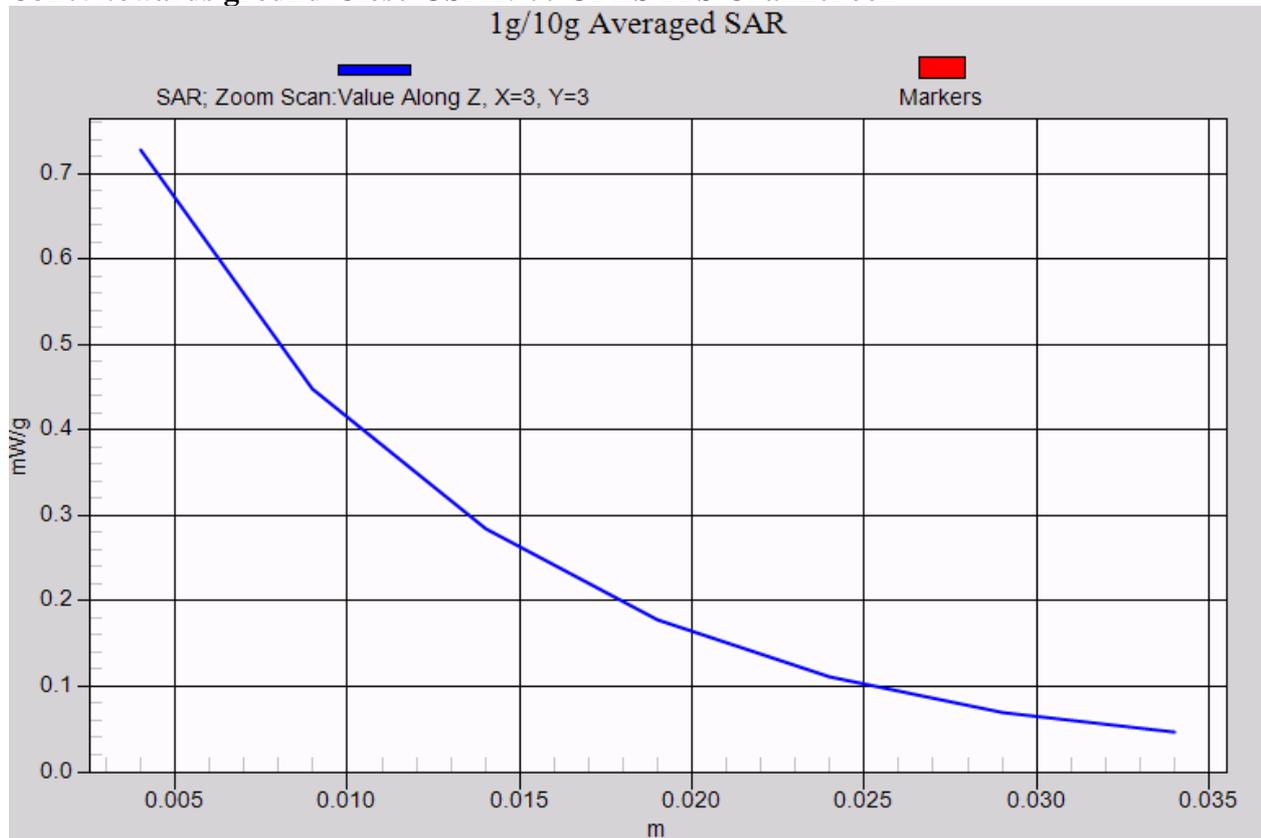
U3205 towards phantom-Close-GSM1900 GPRS 2TS Channel 661



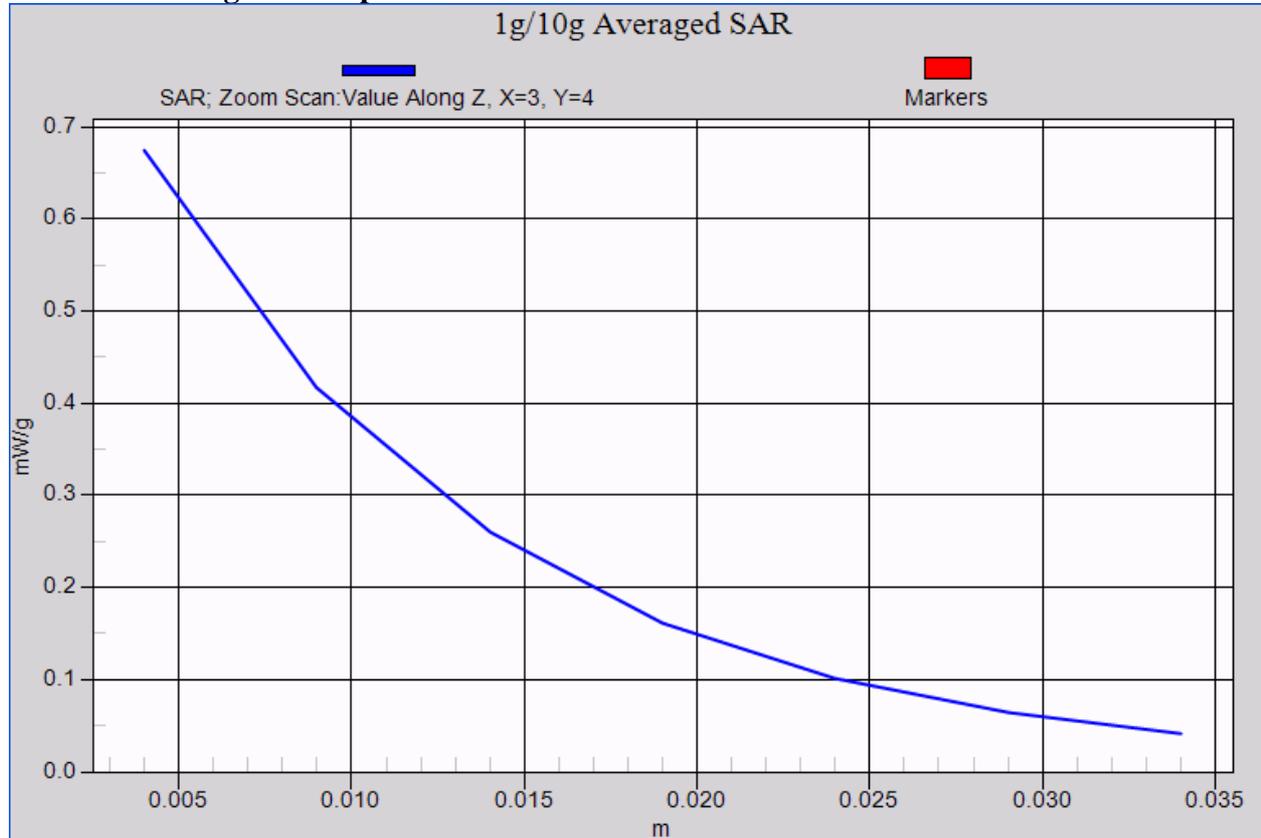
U3205 towards phantom-Open-GSM1900 GPRS 2TS Channel 661



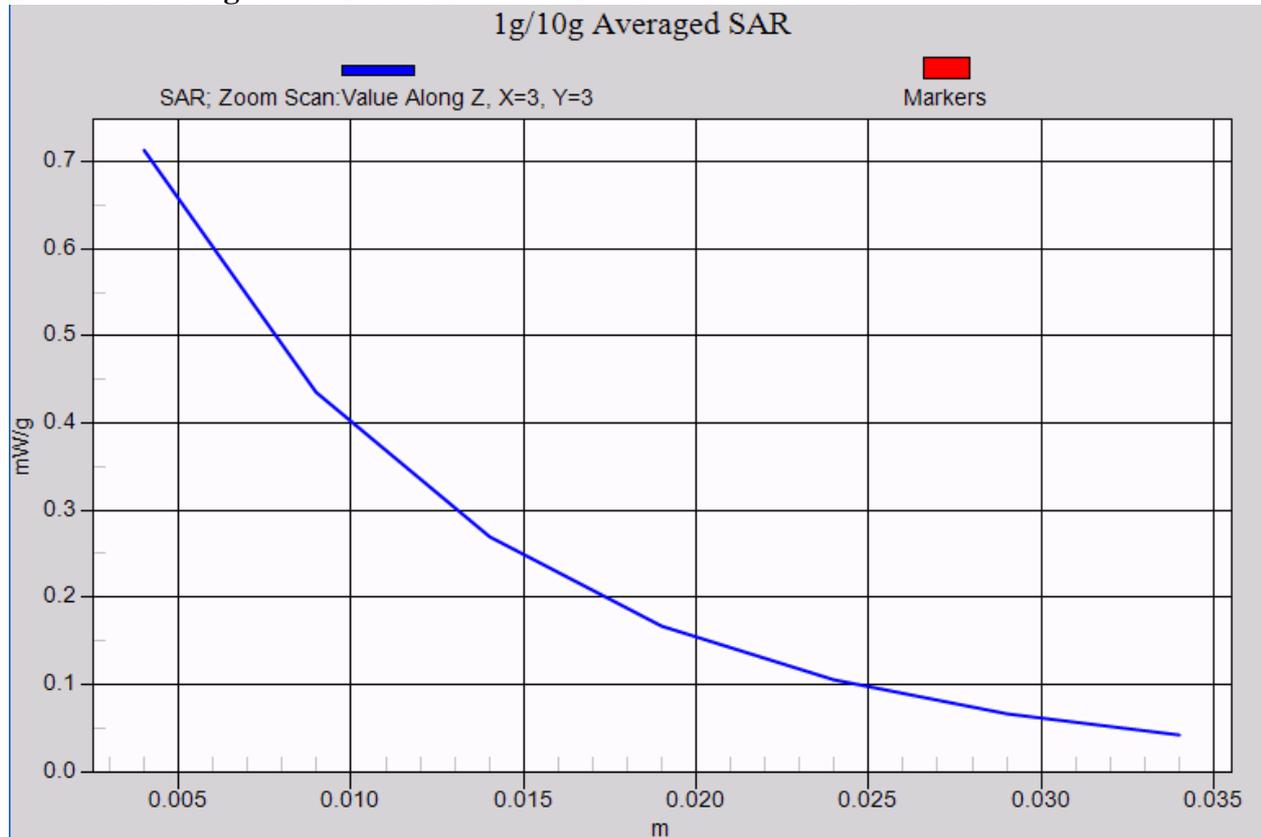
U3205 towards ground-Close-GSM1900 GPRS 2TS Channel 661



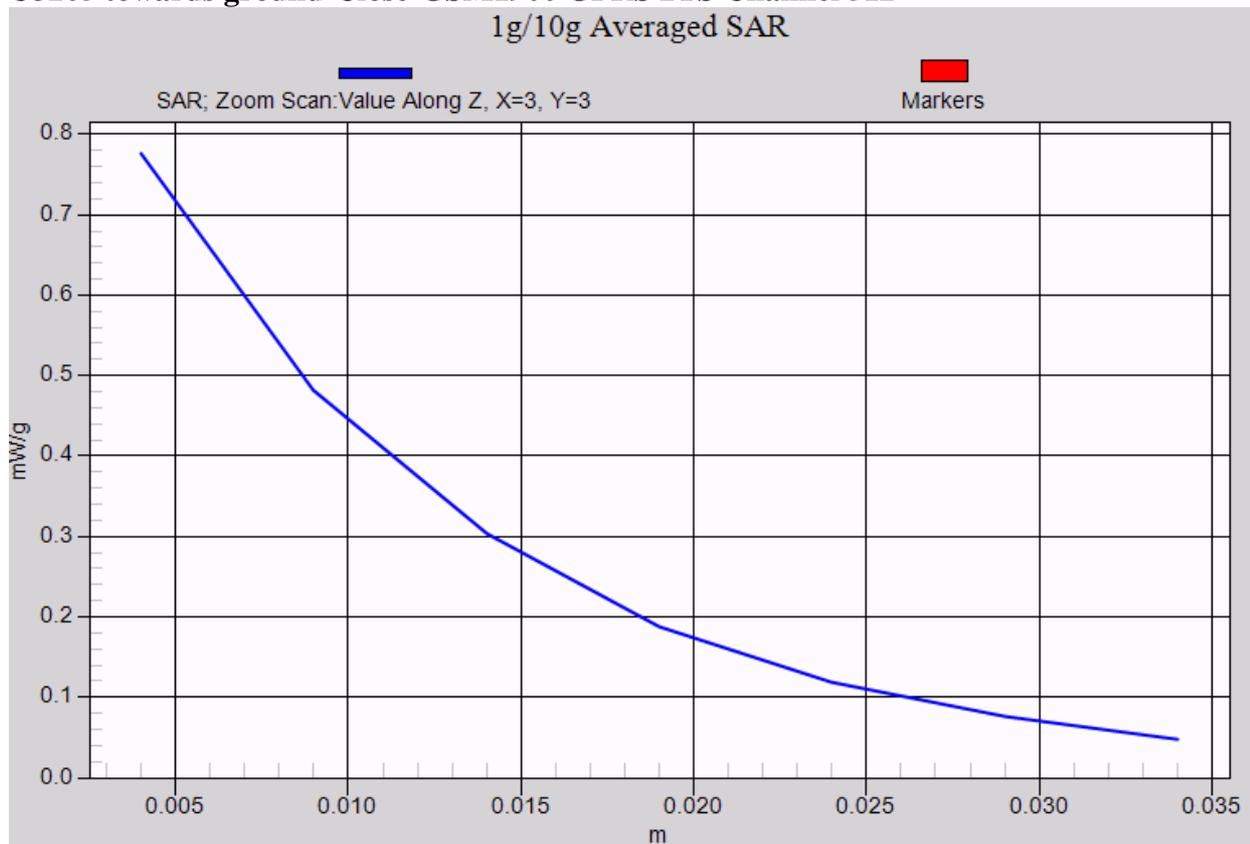
U3205 towards ground-Open-GSM1900 GPRS 2TS Channel 661



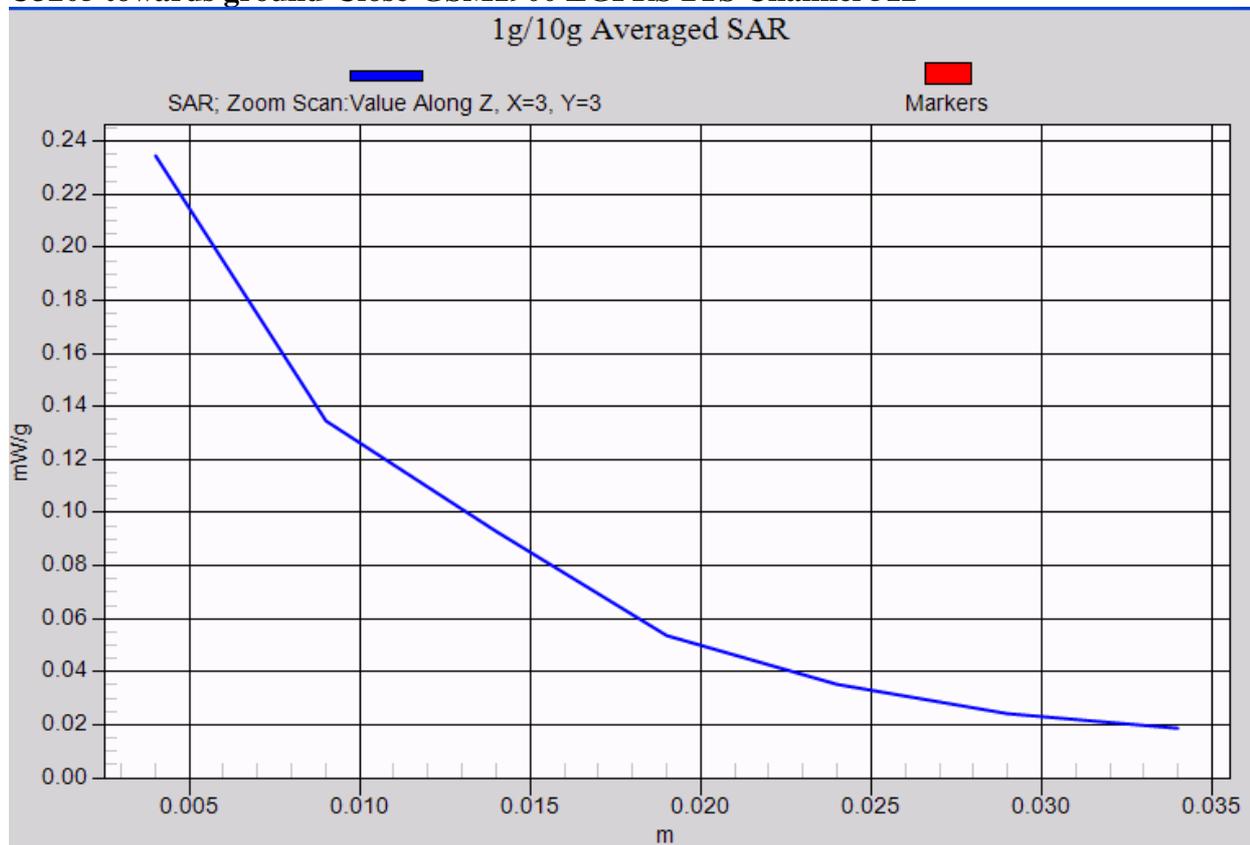
U3205 towards ground-Close-GSM1900 GPRS 2TS Channel 810



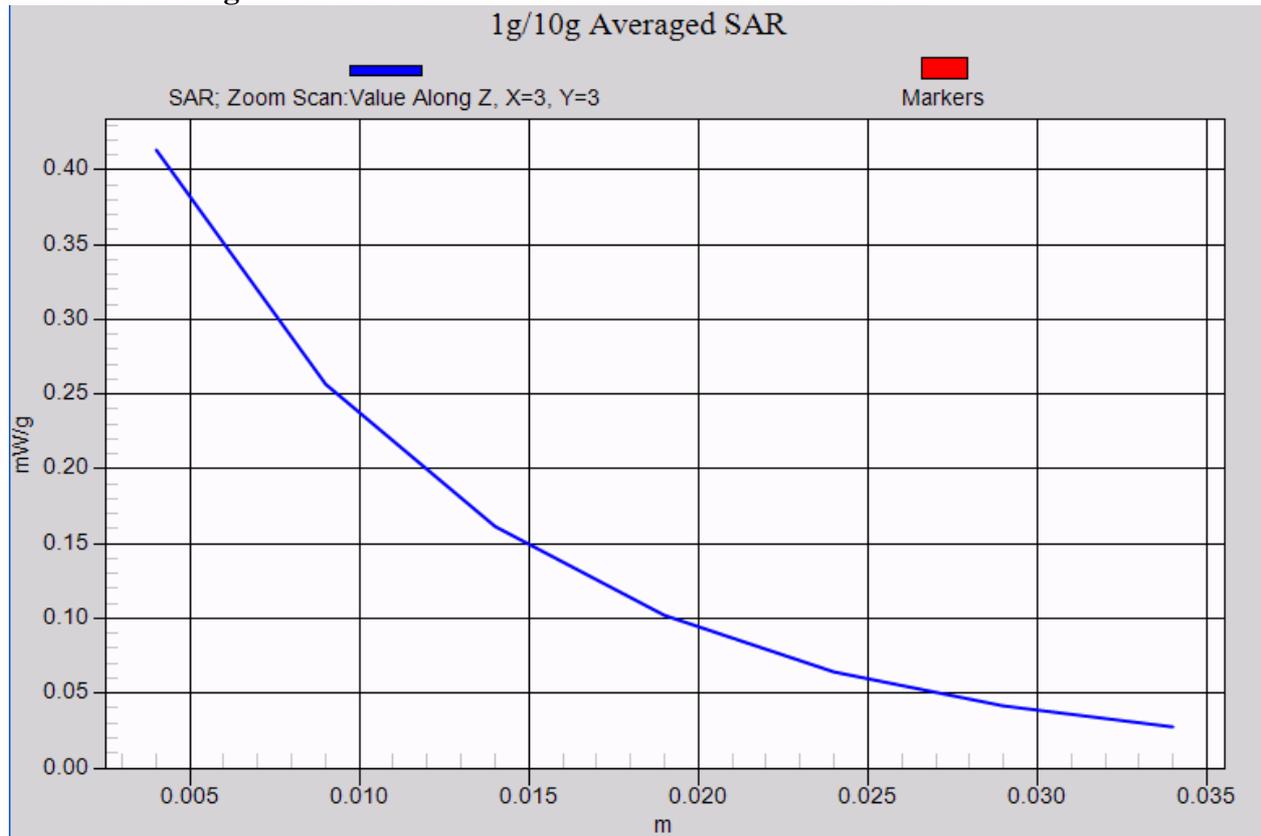
U3205 towards ground-Close-GSM1900 GPRS 2TS Channel 512



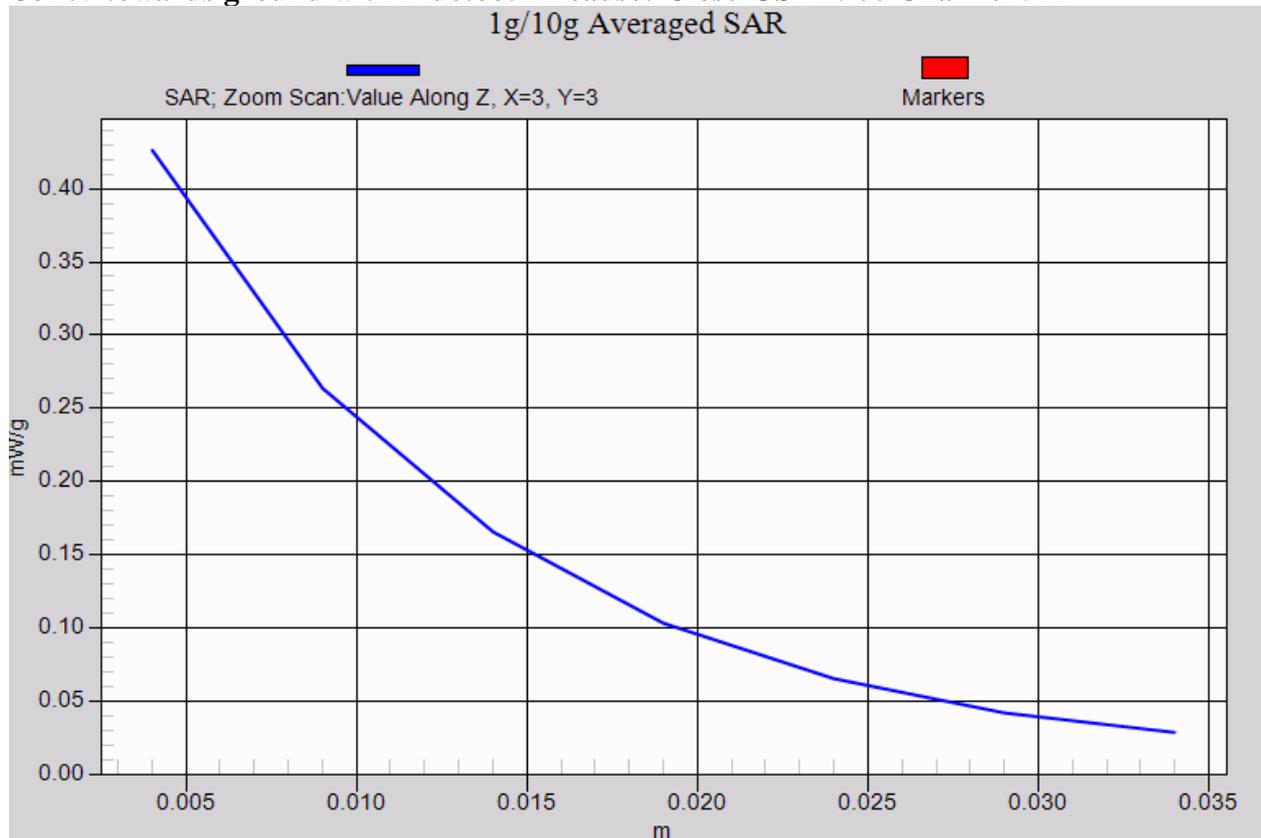
U3205 towards ground-Close-GSM1900 EGPRS 2TS Channel 512



U3205 towards ground with Headset-Close-GSM1900 Channel 512

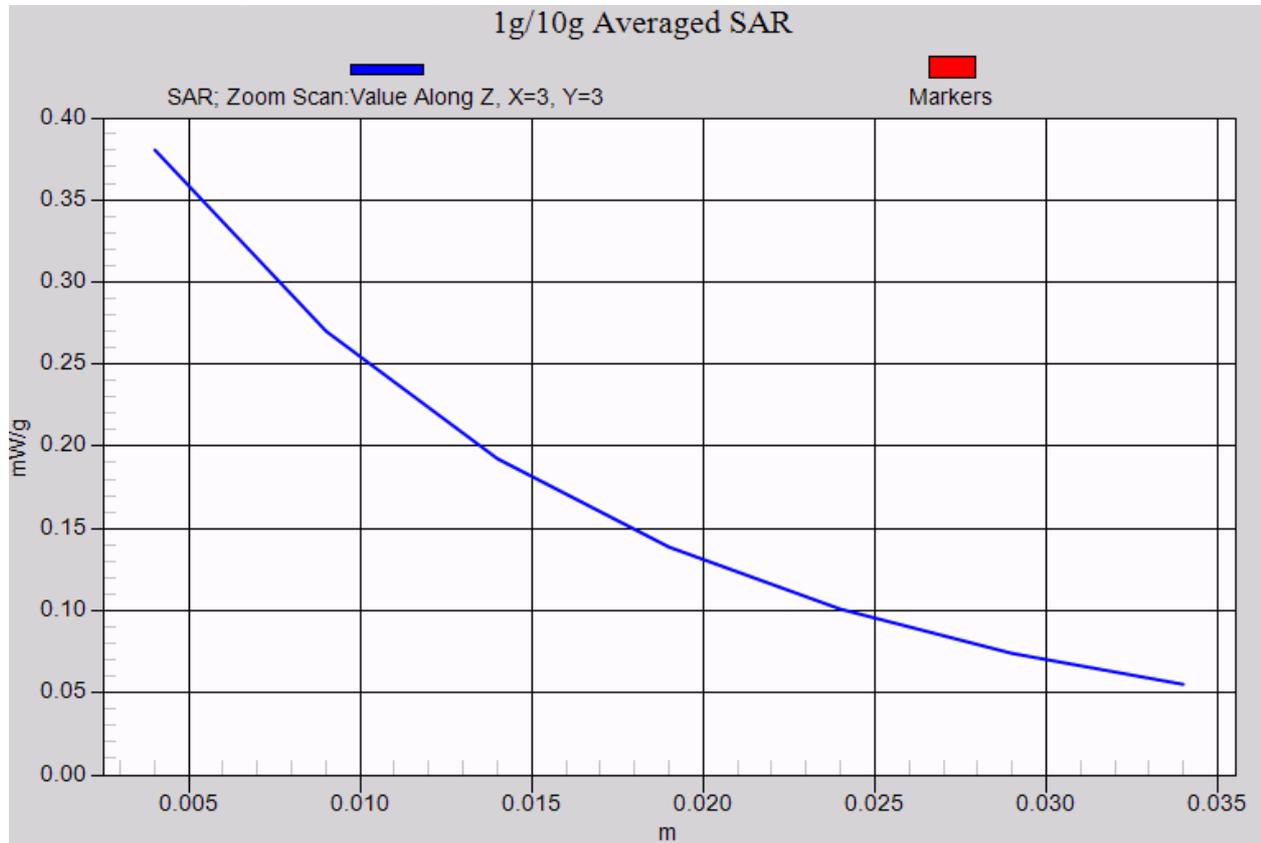


U3205 towards ground with Bluetooth Headset-Close-GSM1900 Channel 512

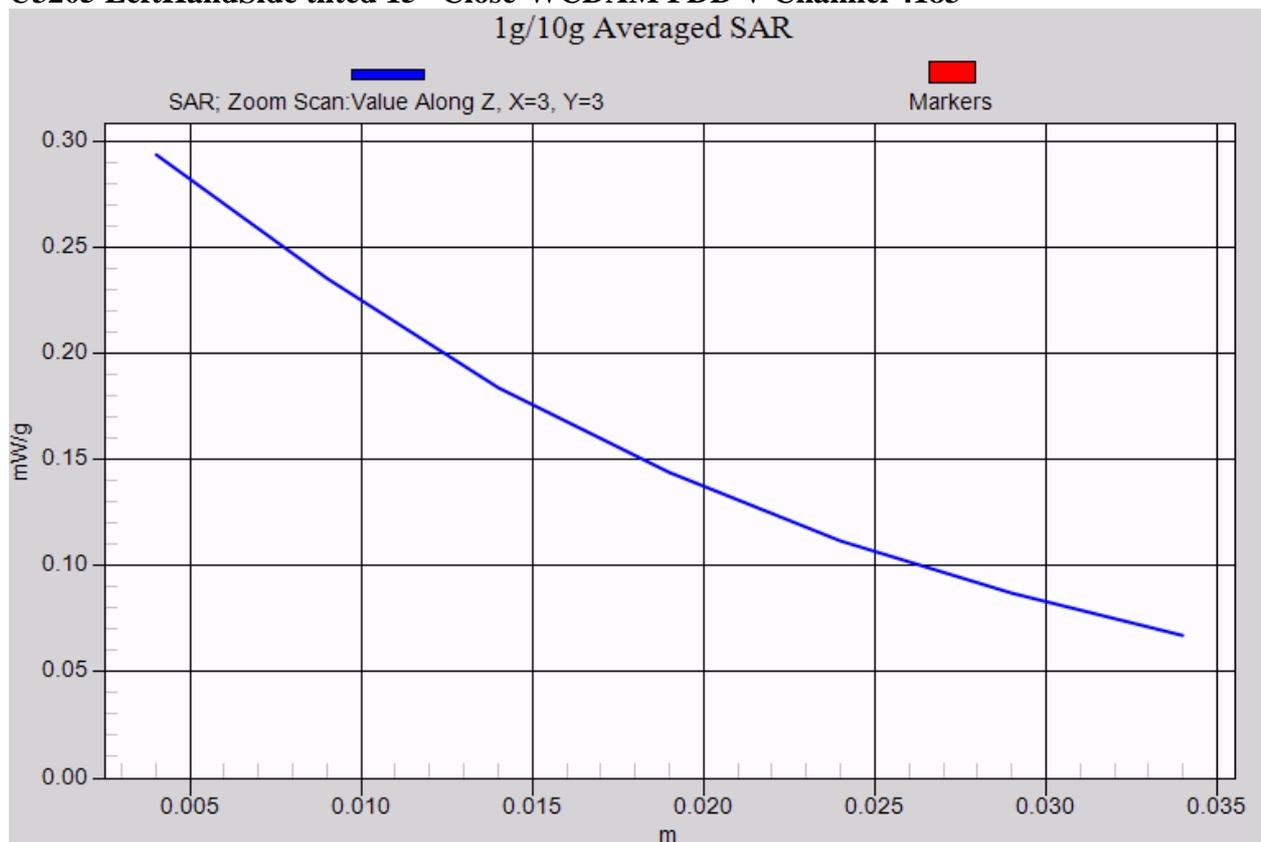


WCDAM FDD V head:

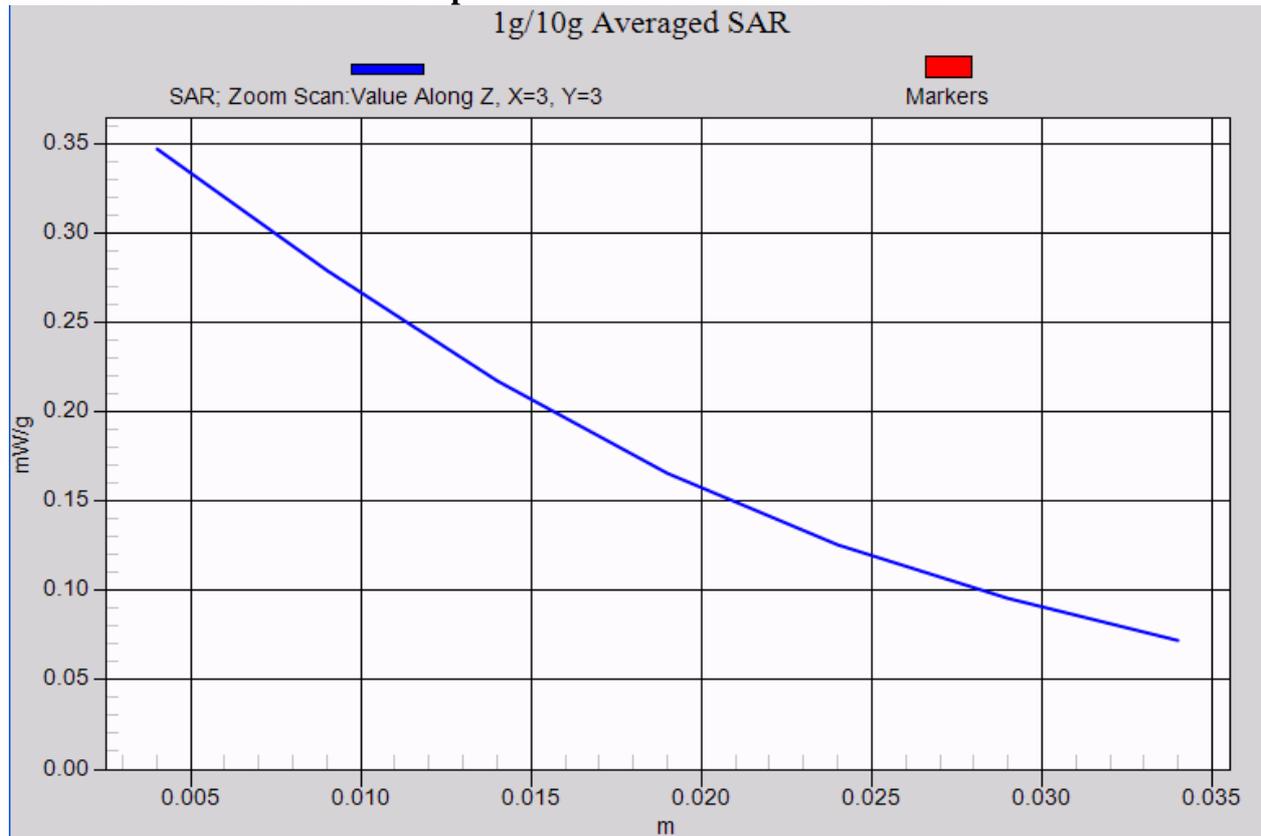
U3205 LeftHandSide touched-Close-WCDAM FDD V Channel 4183



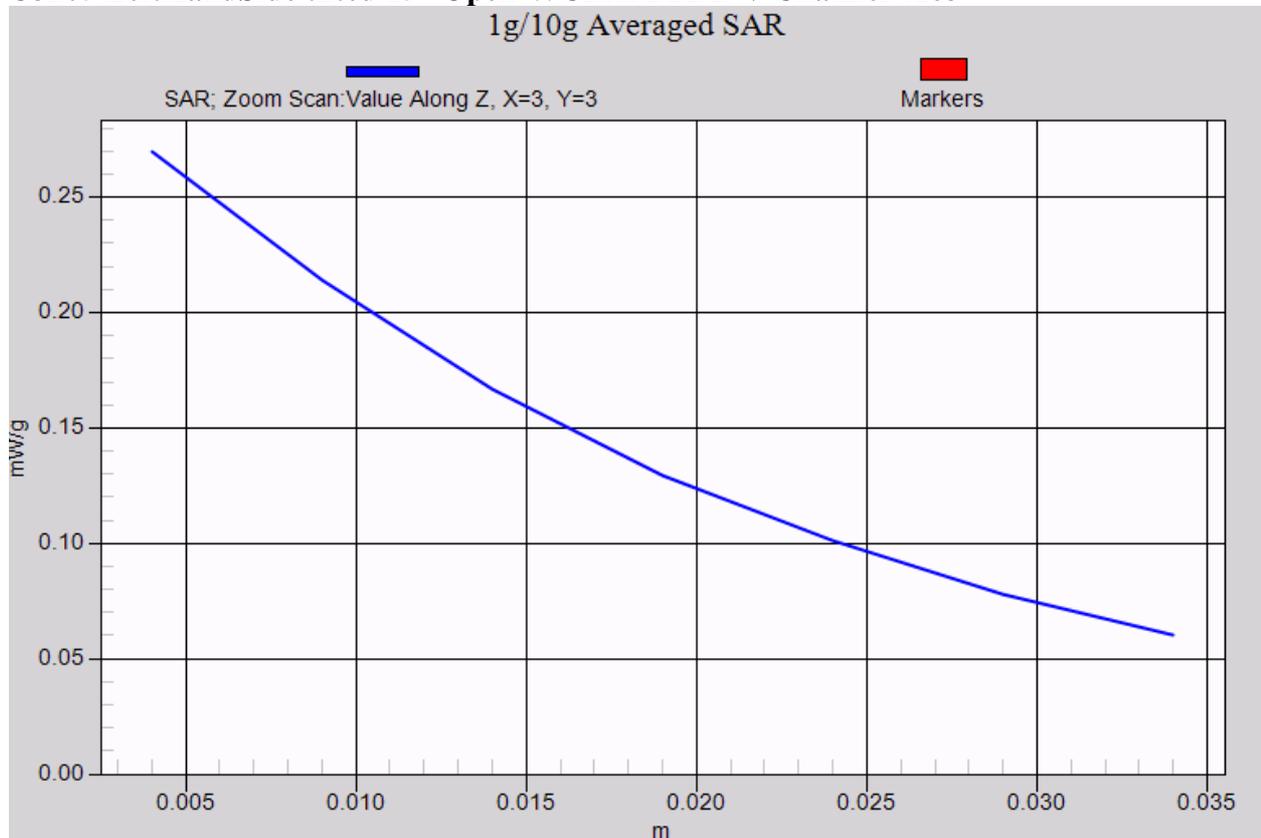
U3205 LeftHandSide tilted 15°-Close-WCDAM FDD V Channel 4183



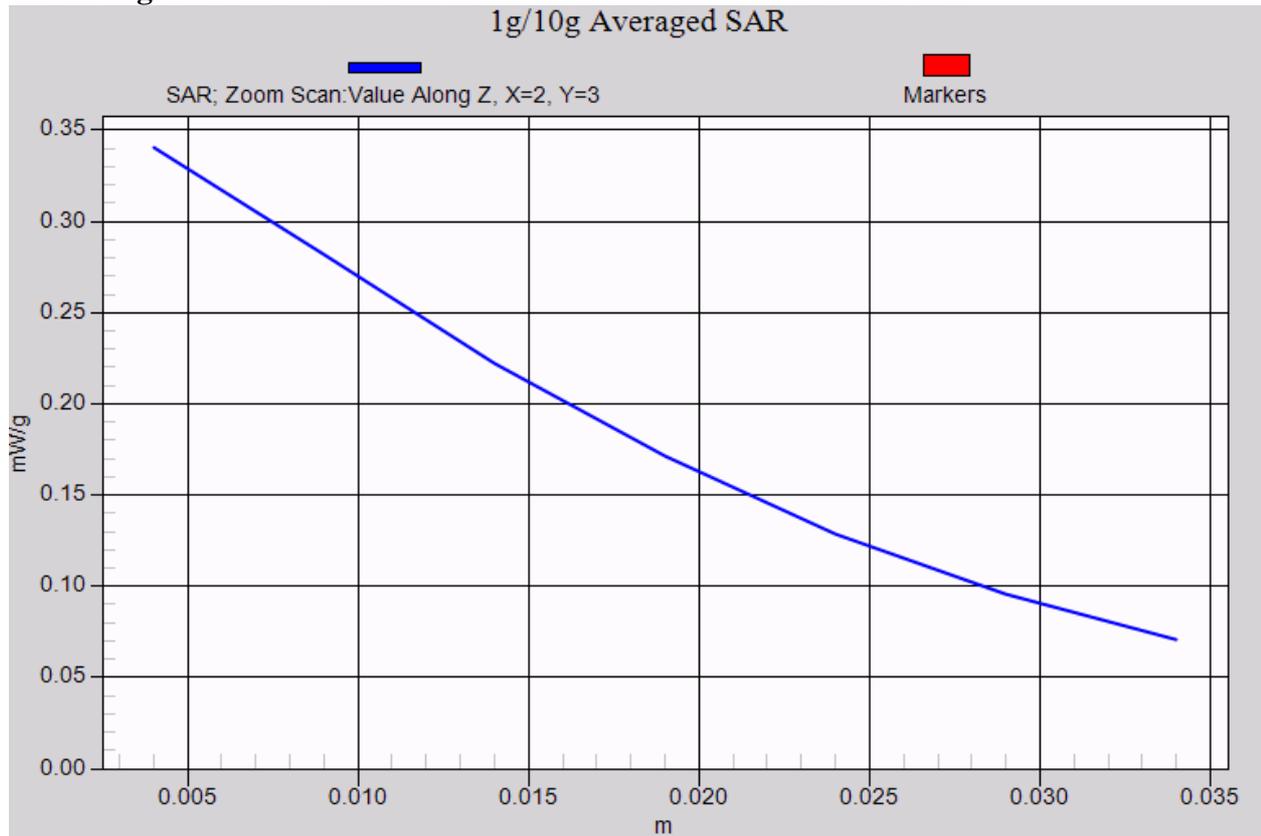
U3205 LeftHandSide touched-Open-WCDAM FDD V Channel 4183



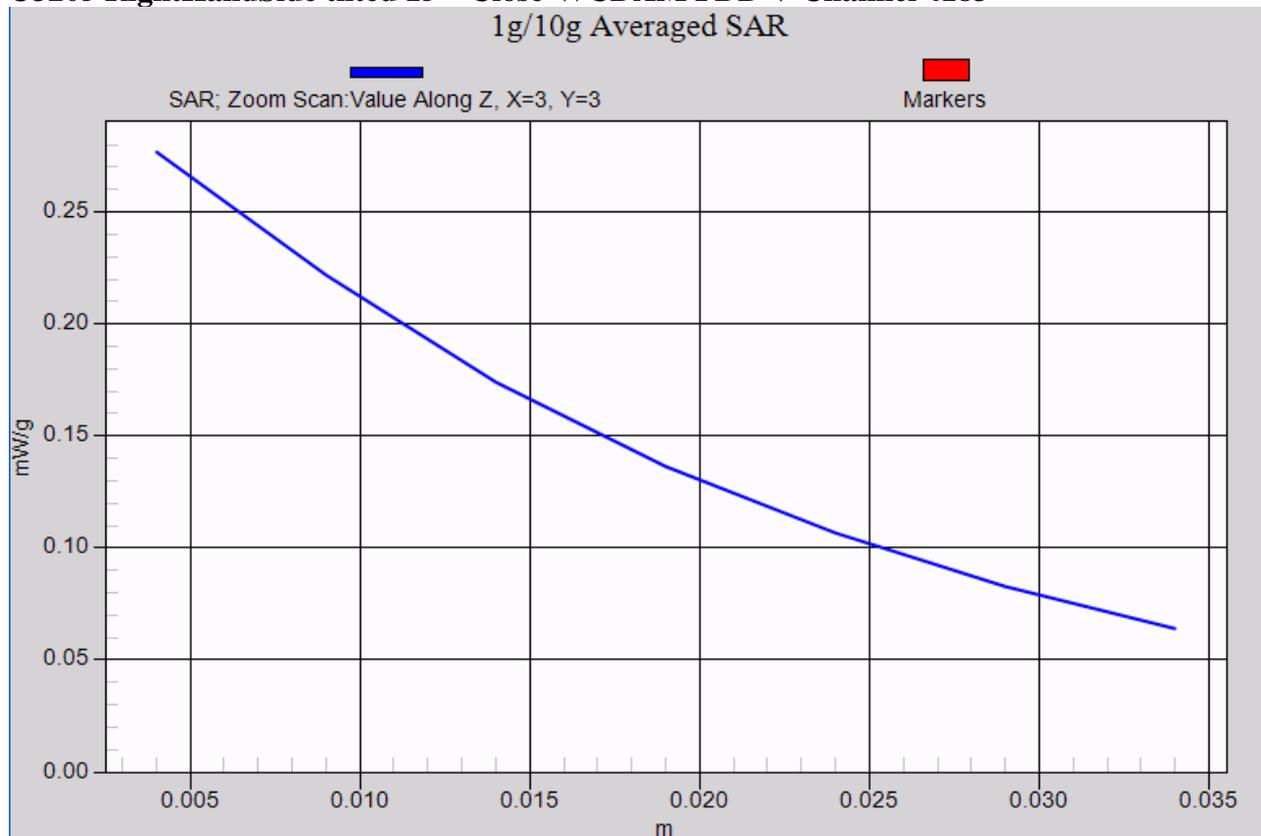
U3205 LeftHandSide tilted 15°-Open-WCDAM FDD V Channel 4183



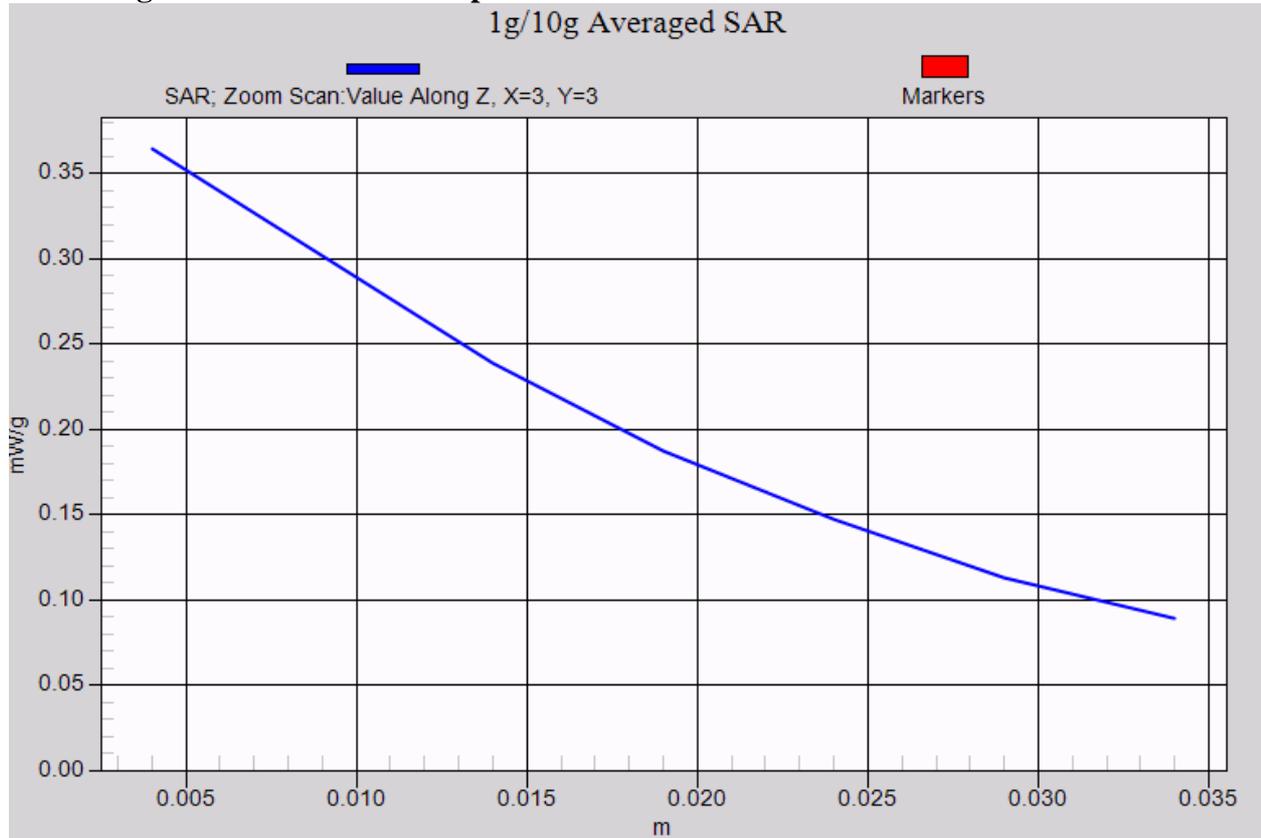
U3205 RightHandSide touched-Close- WCDAM FDD V Channel 4183



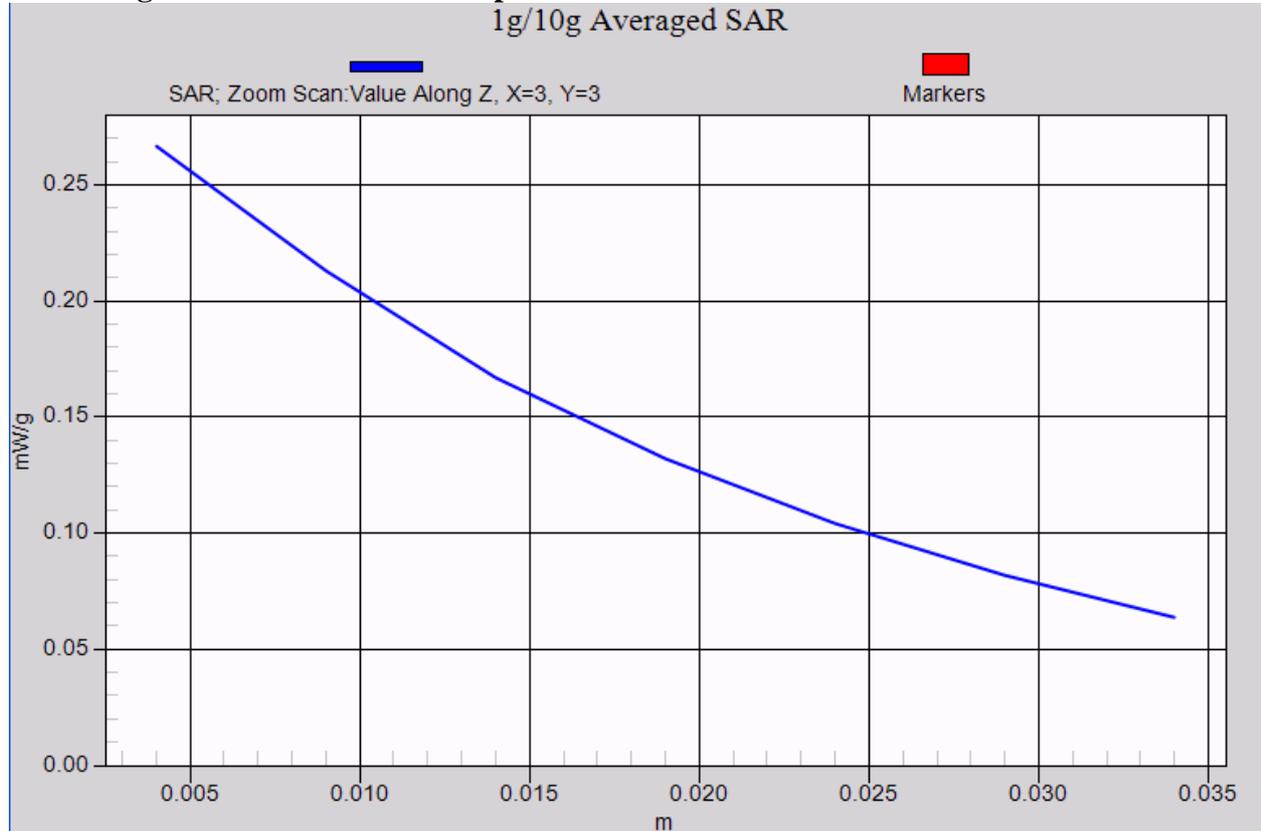
U3205 RightHandSide tilted 15° - Close-WCDAM FDD V Channel 4183



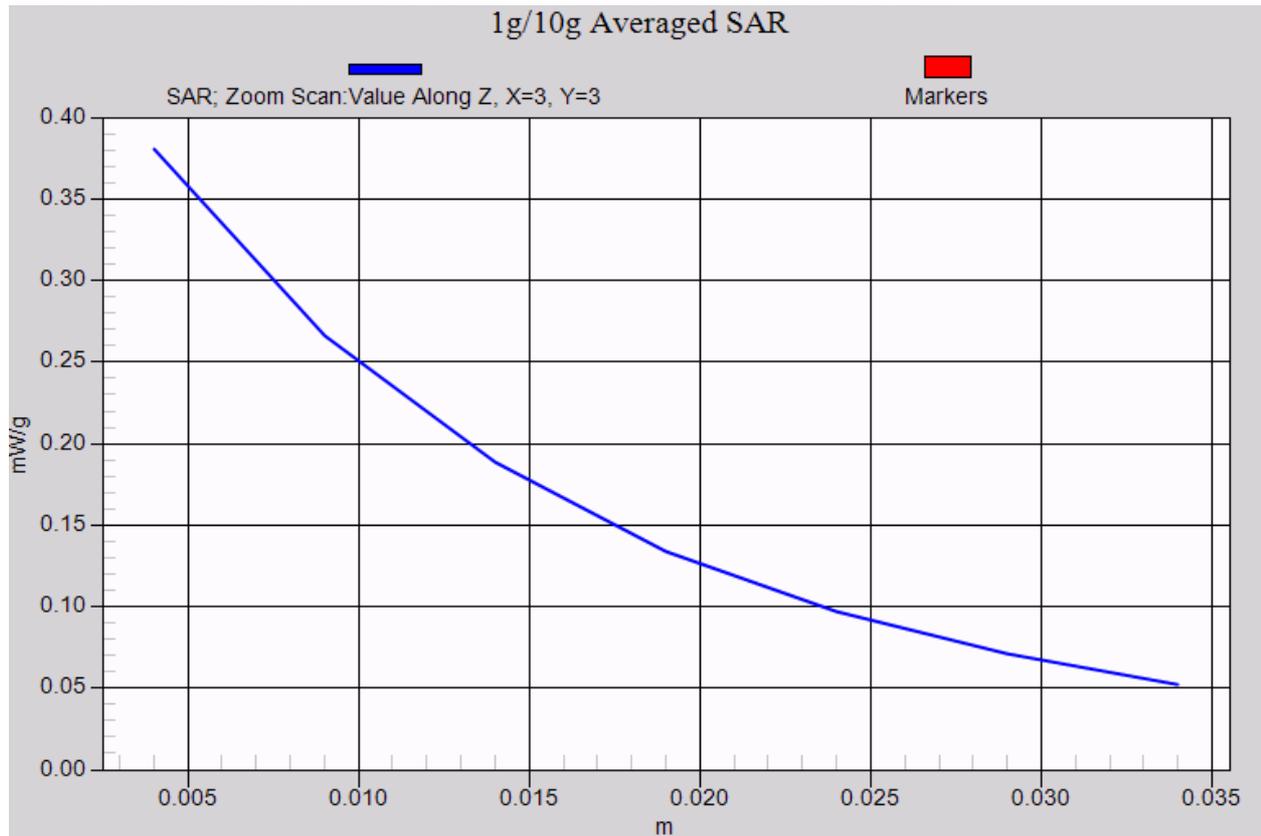
U3205 RightHandSide touched-Open- WCDAM FDD V Channel 4183



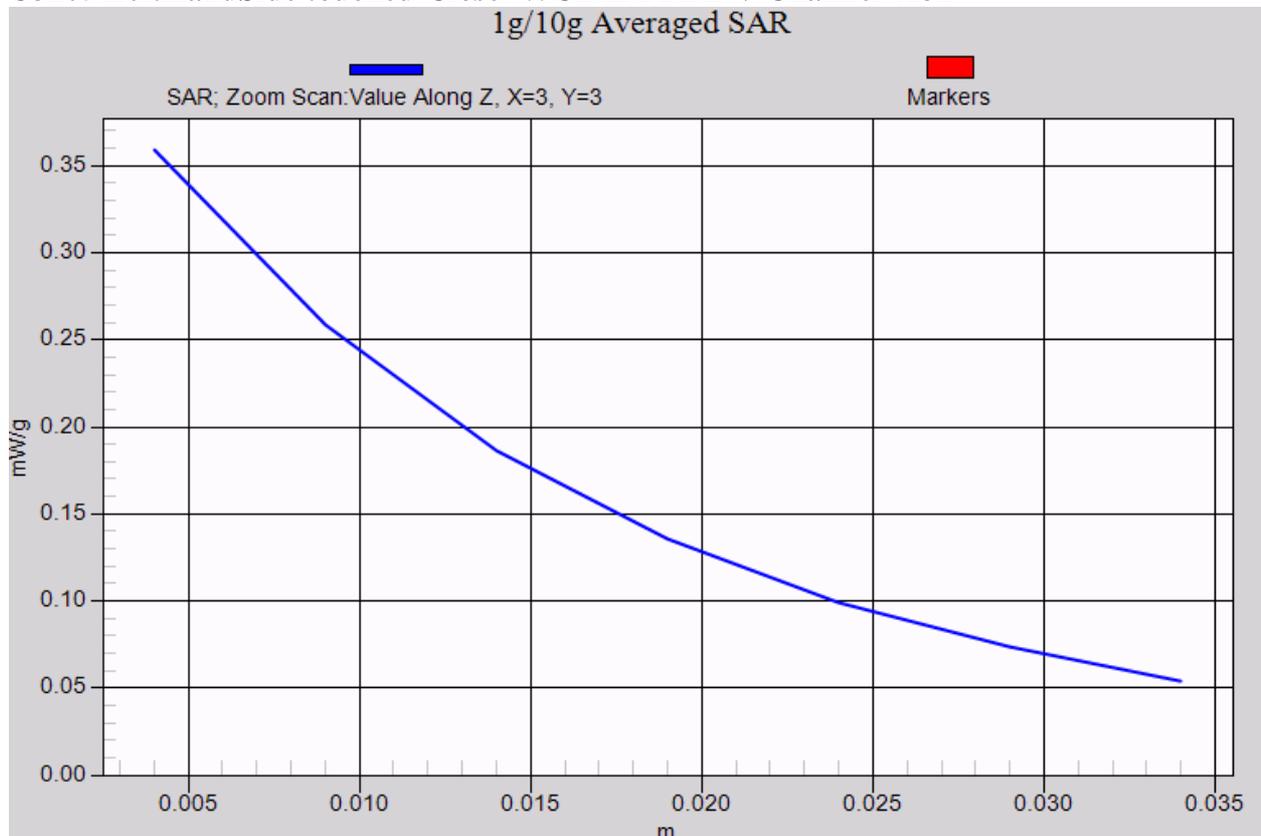
U3205 RightHandSide tilted 15° - Open-WCDAM FDD V Channel 4183



U3205 LeftHandSide touched-Close- WCDAM FDD V Channel 4233

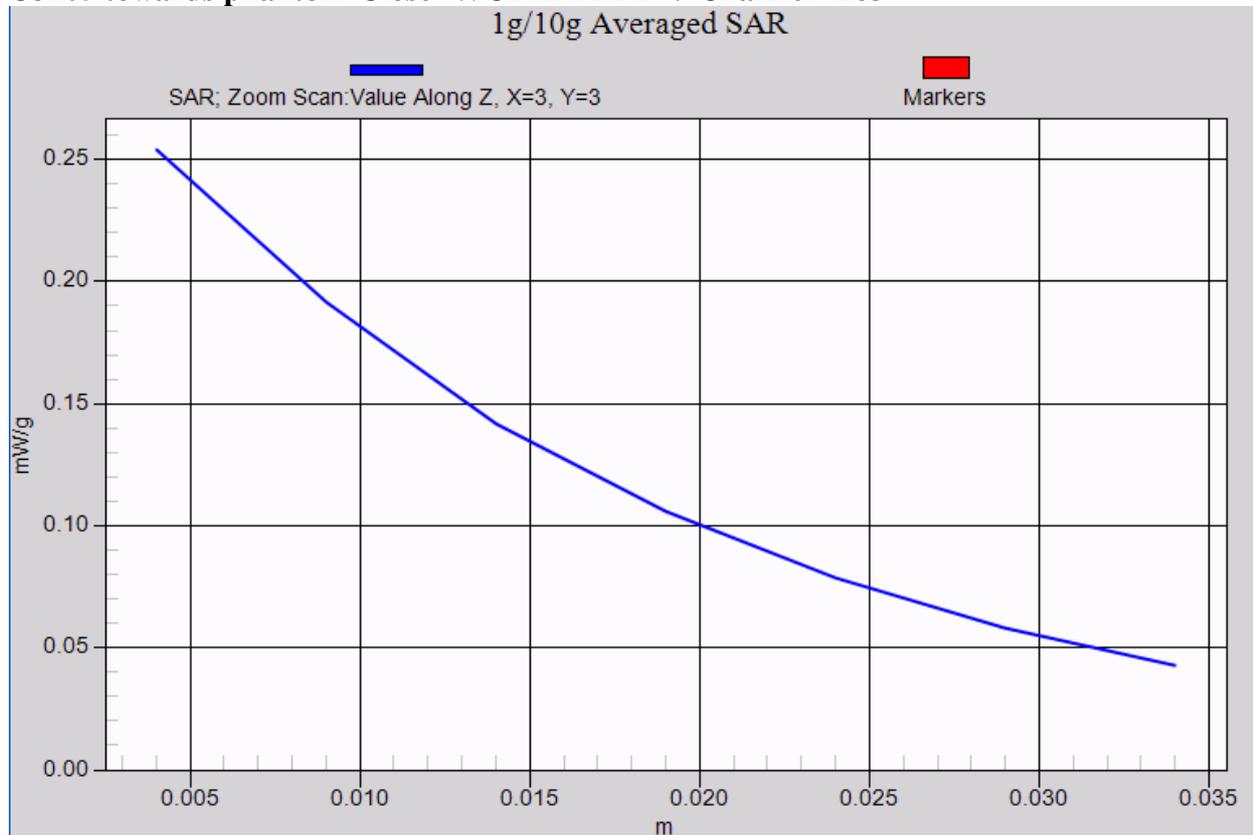


U3205 LeftHandSide touched-Close- WCDAM FDD V Channel 4132

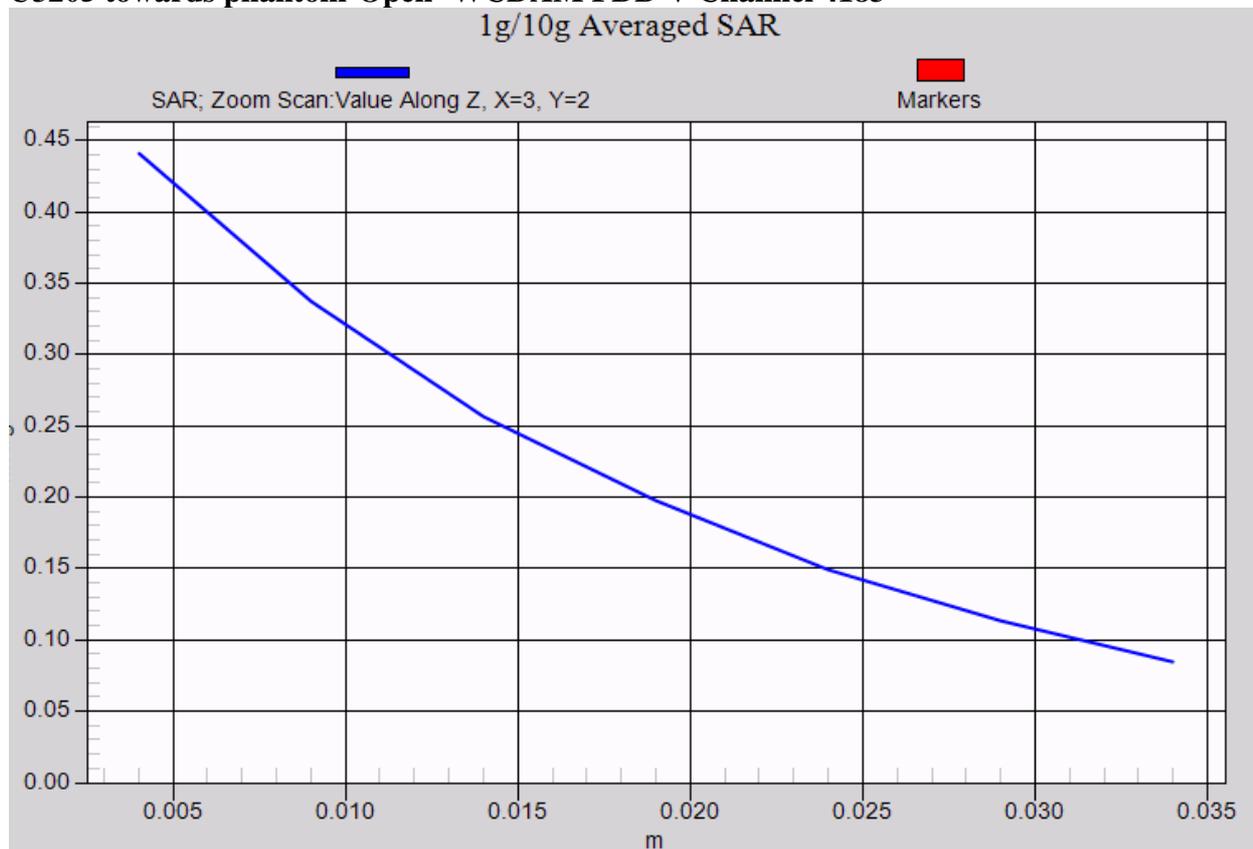


WCDAM FDD V body:

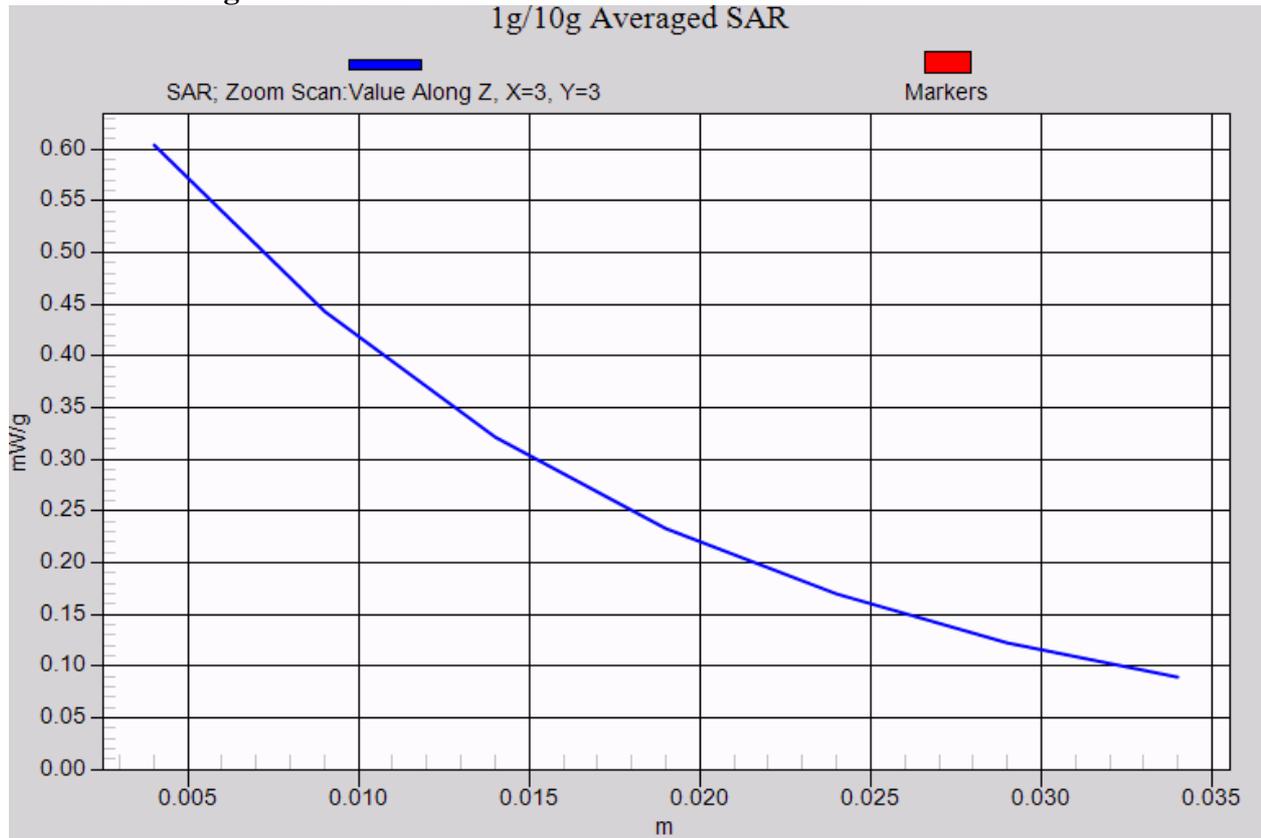
U3205 towards phantom-Close- WCDAM FDD V Channel 4183



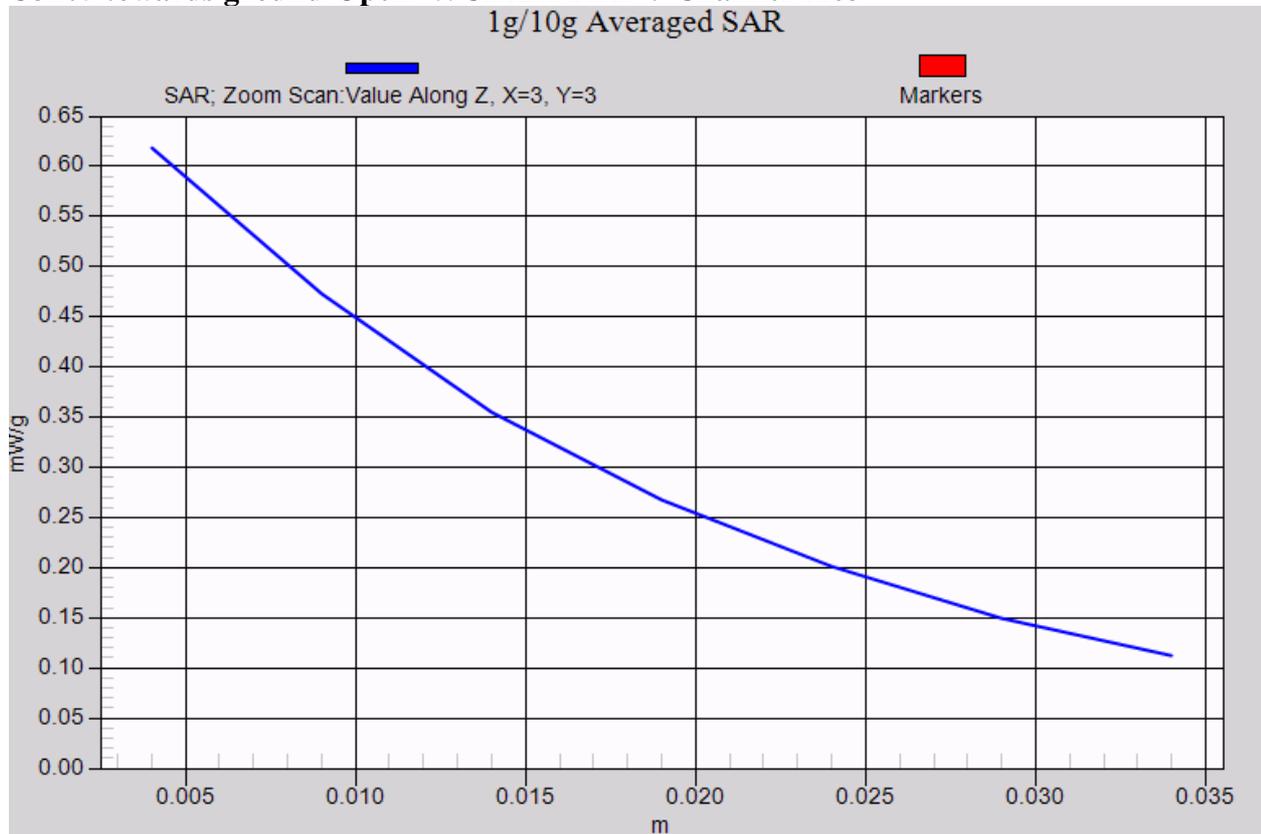
U3205 towards phantom-Open- WCDAM FDD V Channel 4183



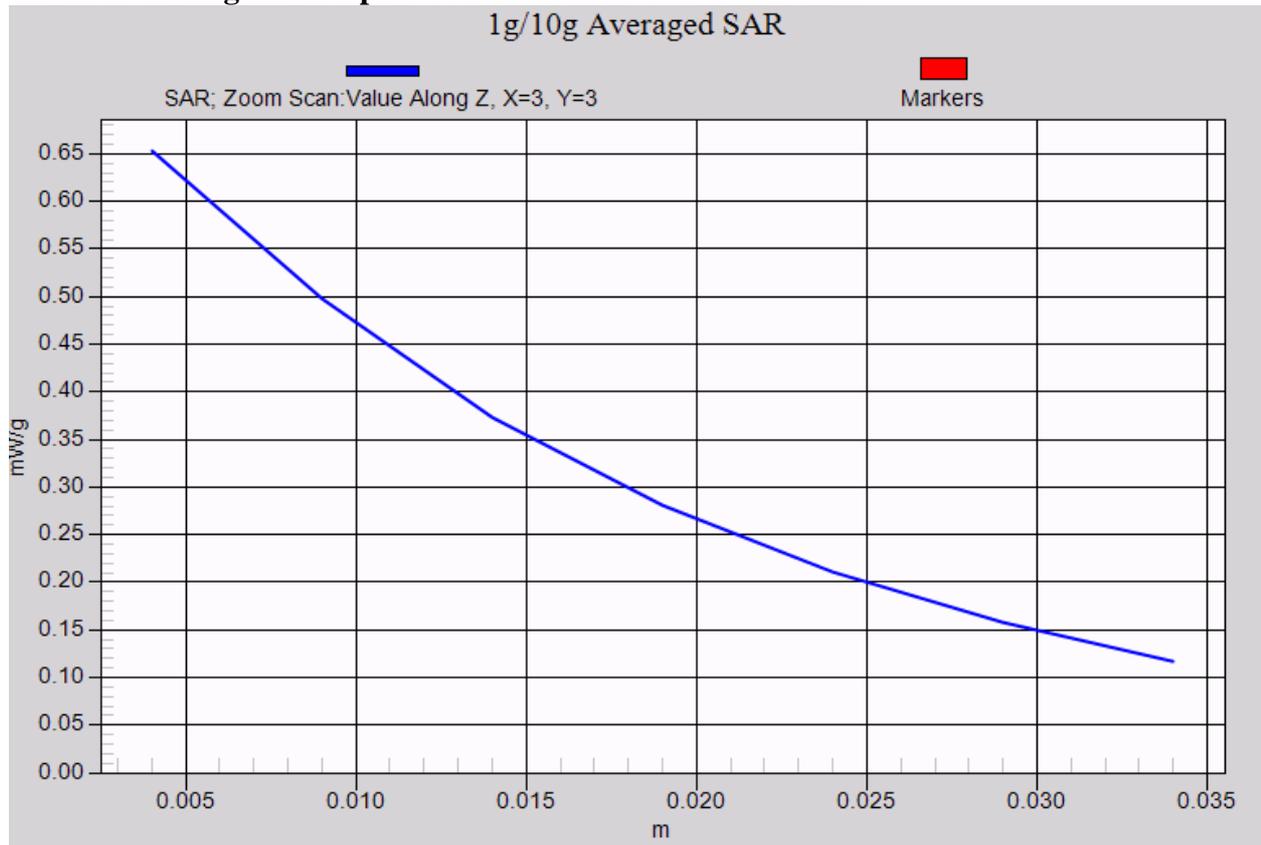
U3205 towards ground-Close- WCDAM FDD V Channel 4183



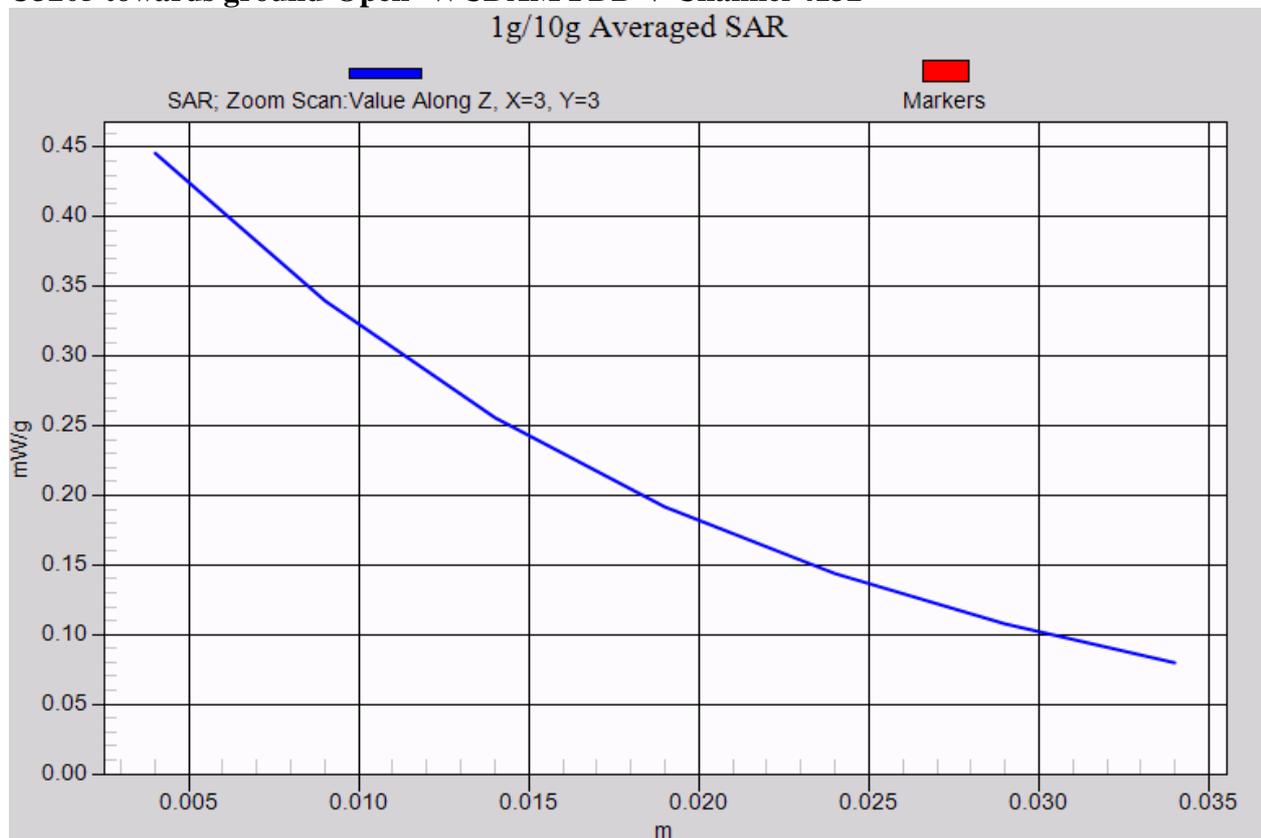
U3205 towards ground-Open- WCDAM FDD V Channel 4183



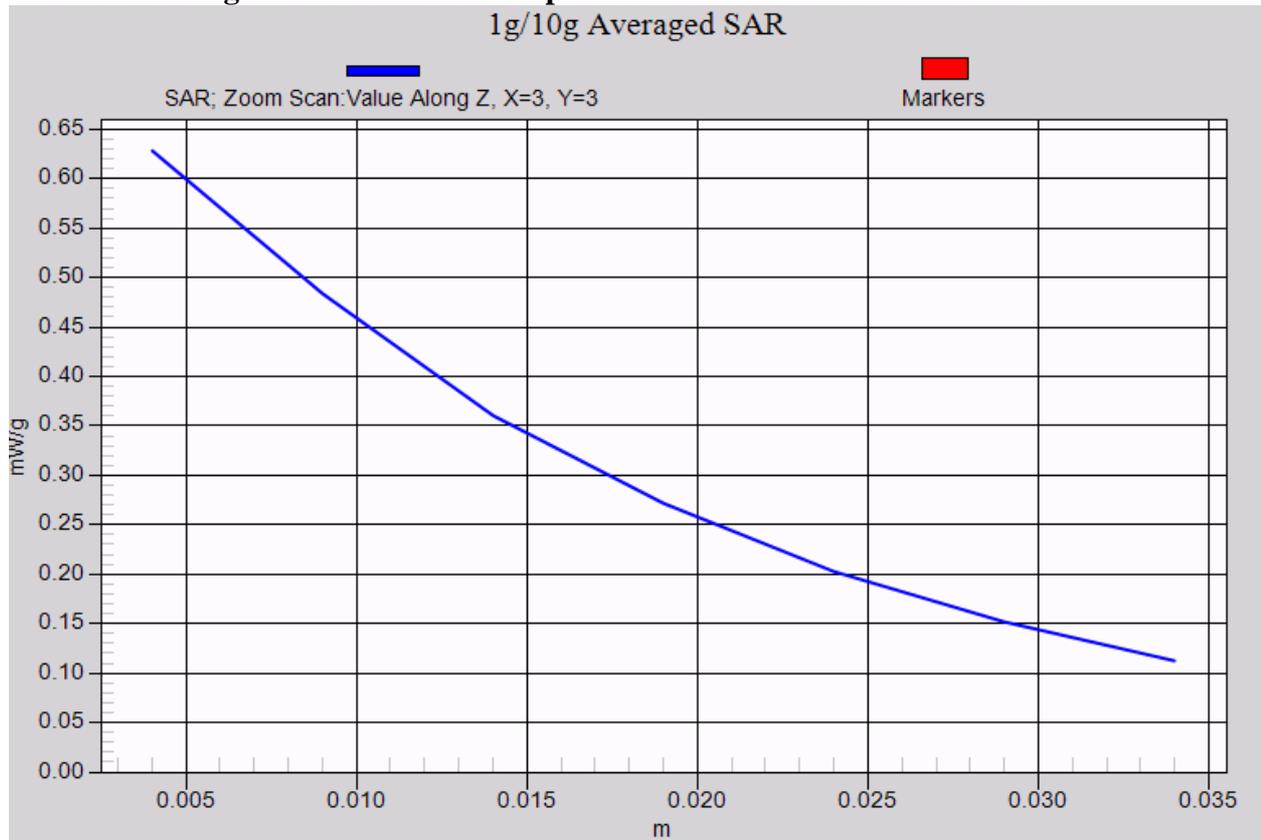
U3205 towards ground-Open- WCDAM FDD V Channel 4233



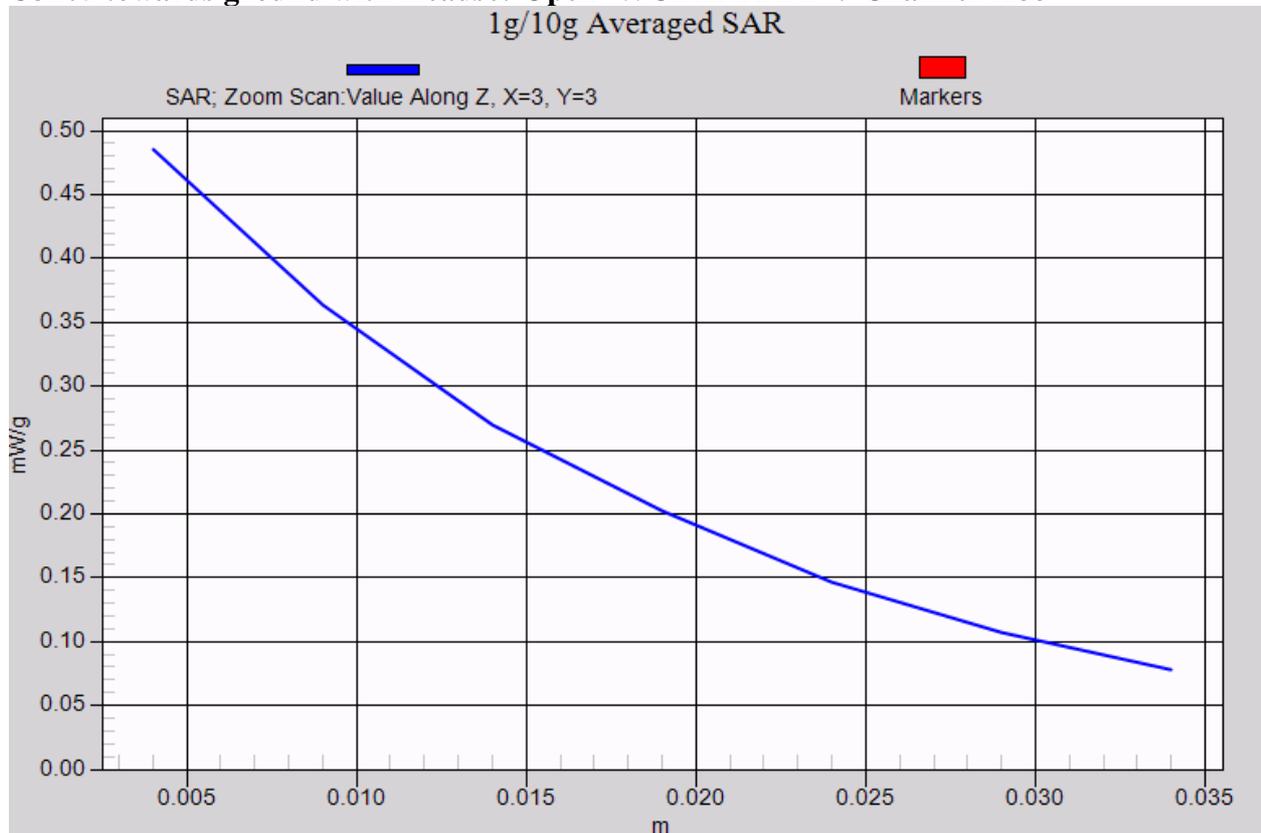
U3205 towards ground-Open- WCDAM FDD V Channel 4132



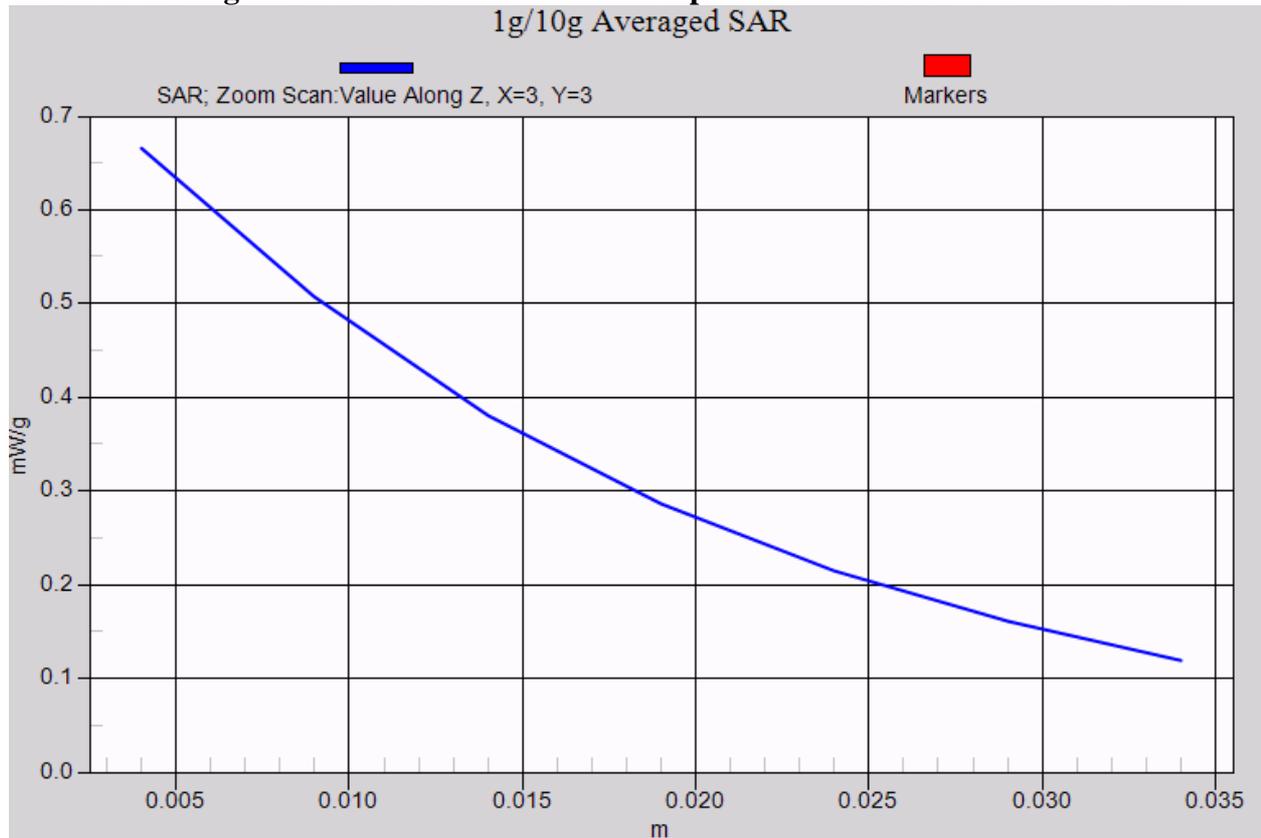
U3205 towards ground with HSDPA-Open- WCDAM FDD V Channel 4233



U3205 towards ground with Headset-Open- WCDAM FDD V Channel 4233

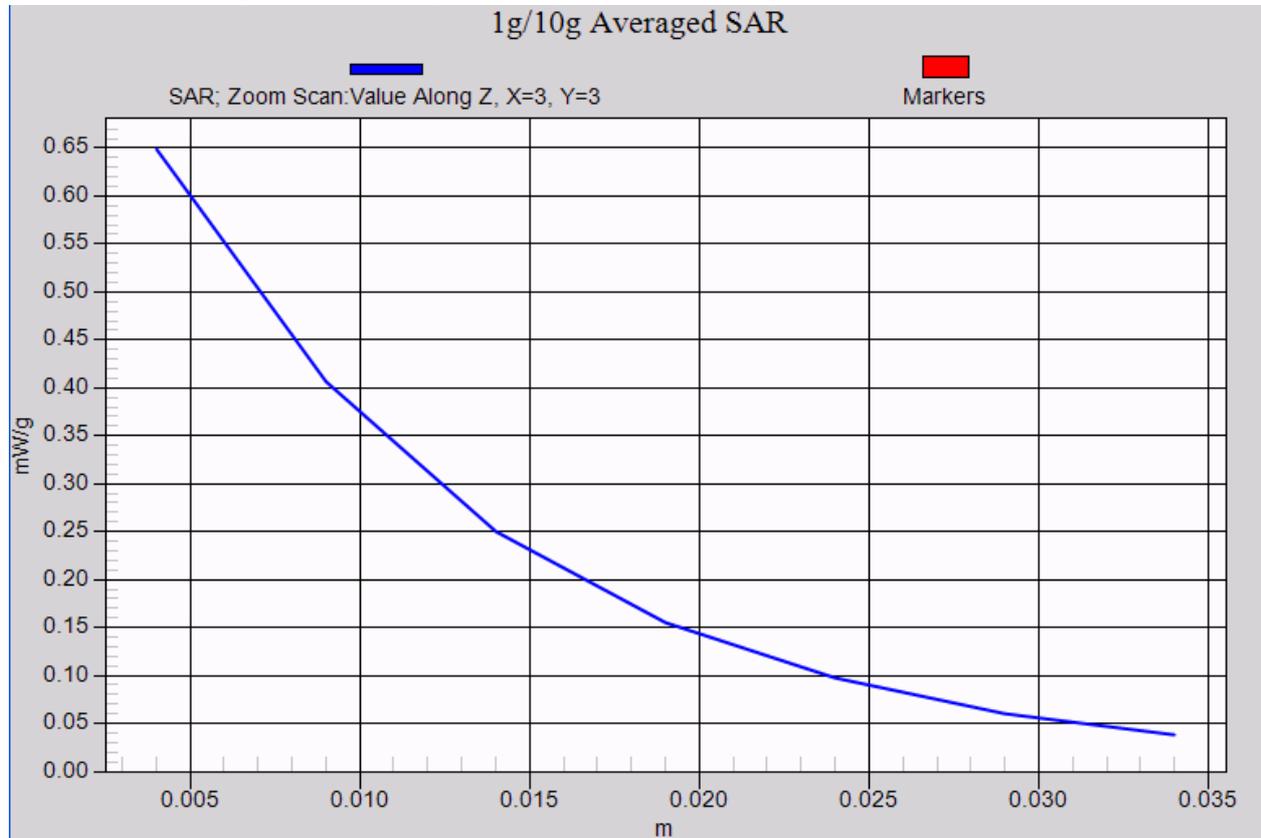


U3205 towards ground with Bluetooth Headset-Open-WCDAM FDD V Channel 4233

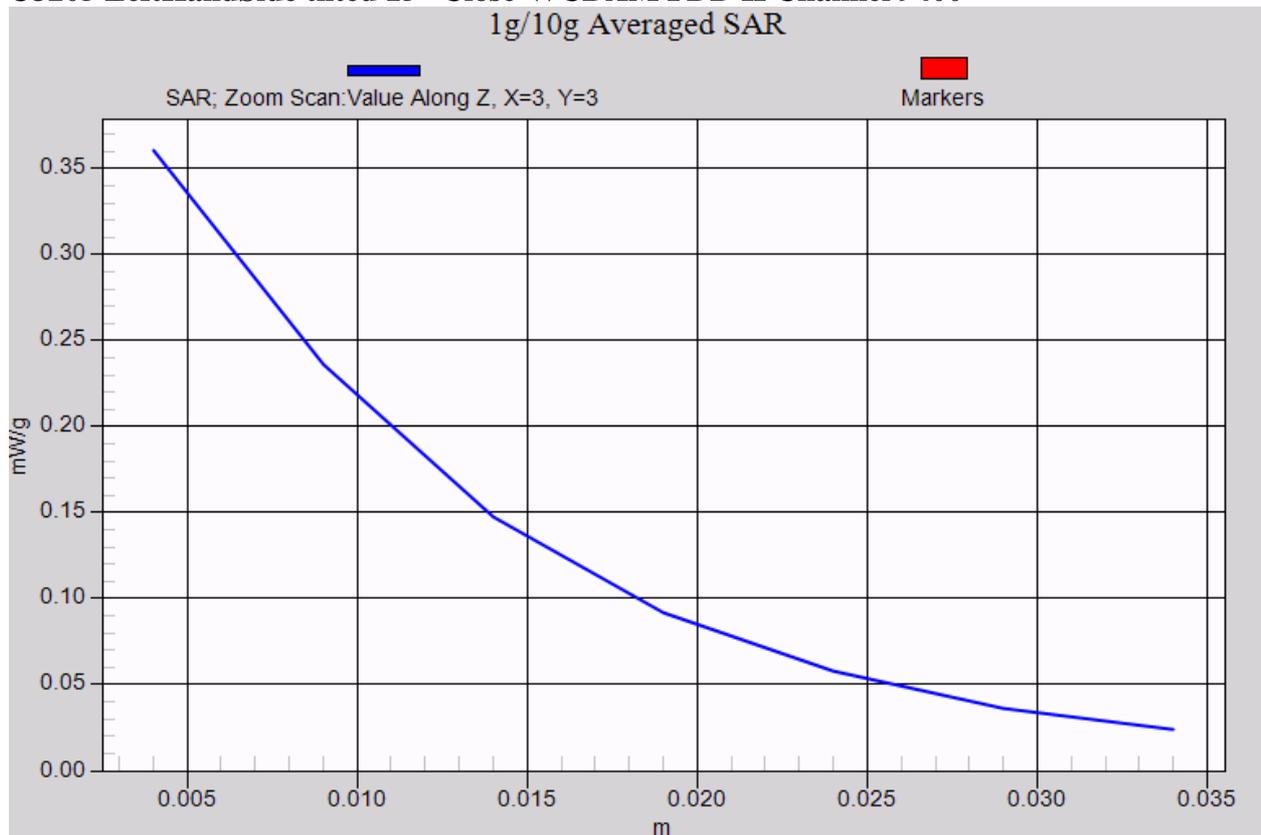


WCDAM FDD II head:

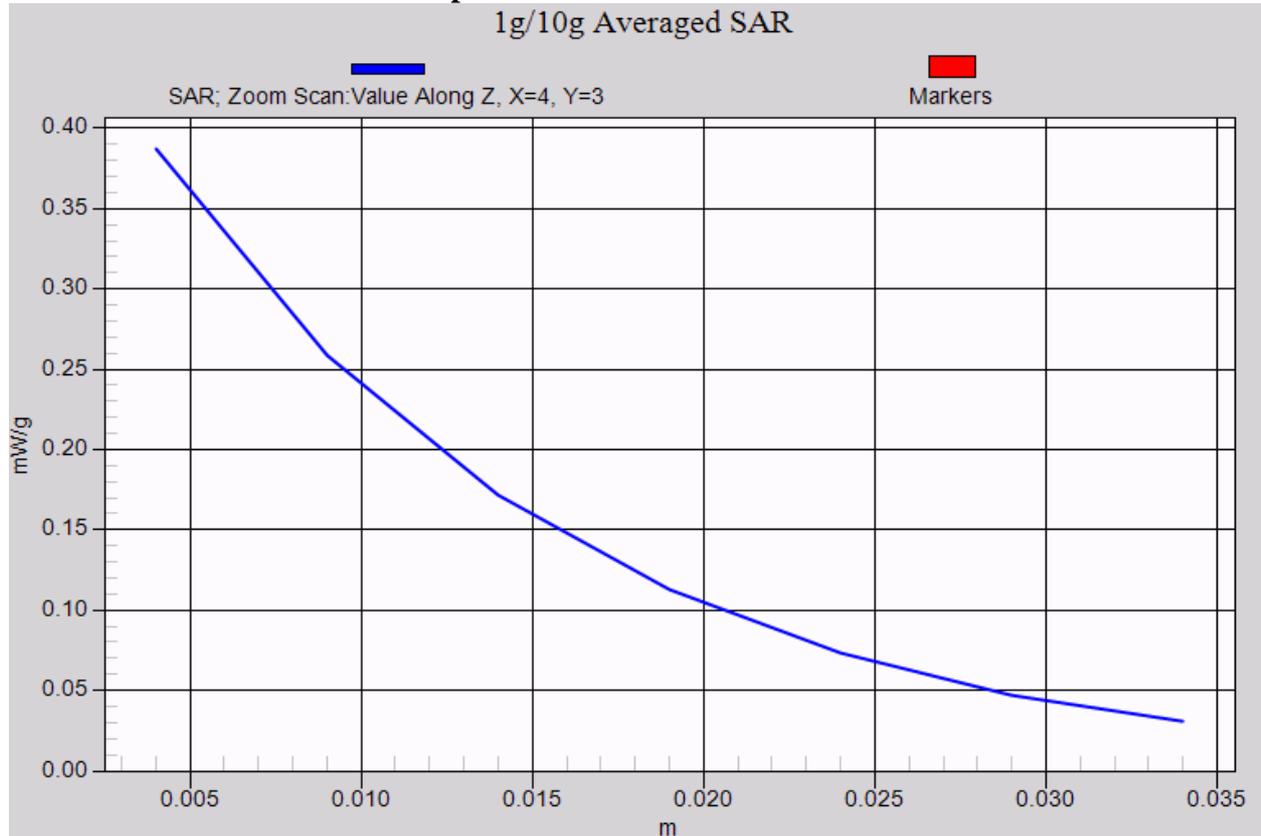
U3205 LeftHandSide touched-Close-WCDAM FDD II Channel 9400



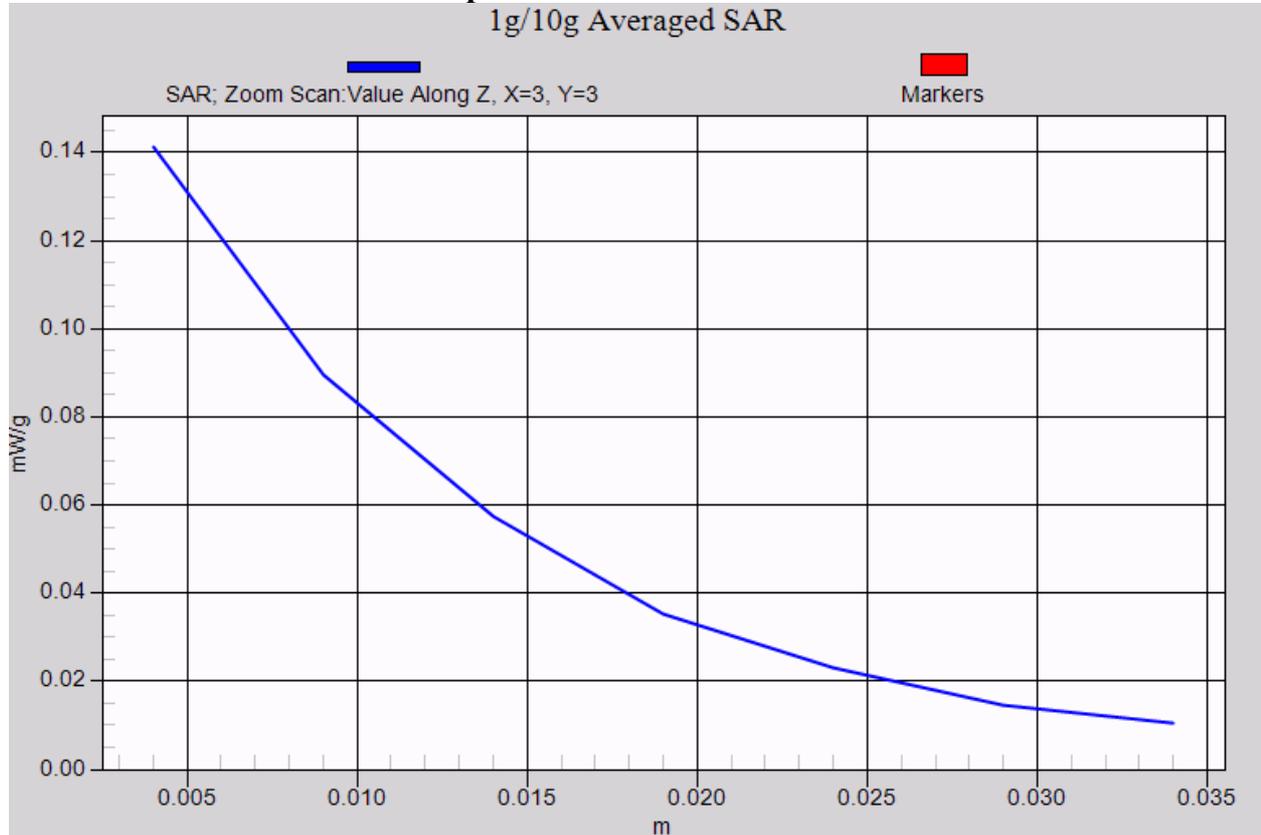
U3205 LeftHandSide tilted 15°-Close-WCDAM FDD II Channel 9400



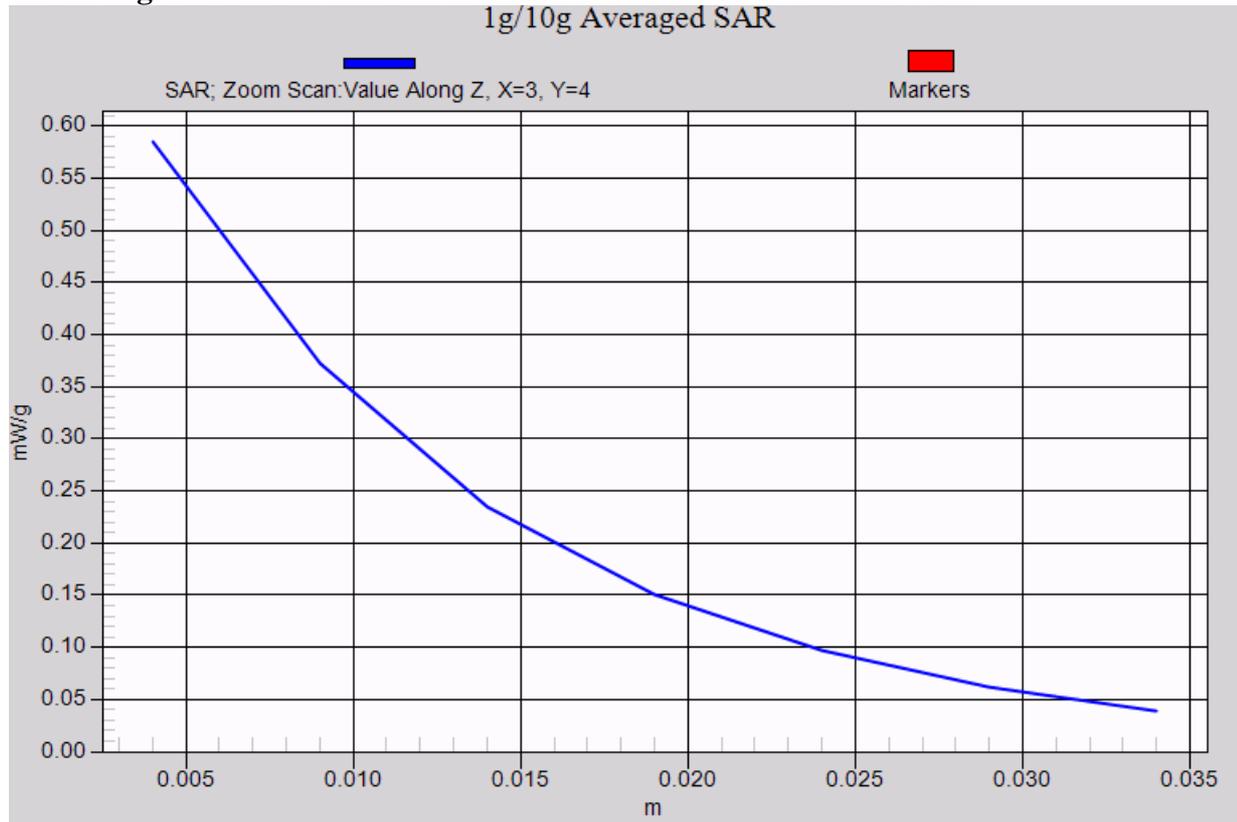
U3205 LeftHandSide touched-Open-WCDAM FDD II Channel 9400



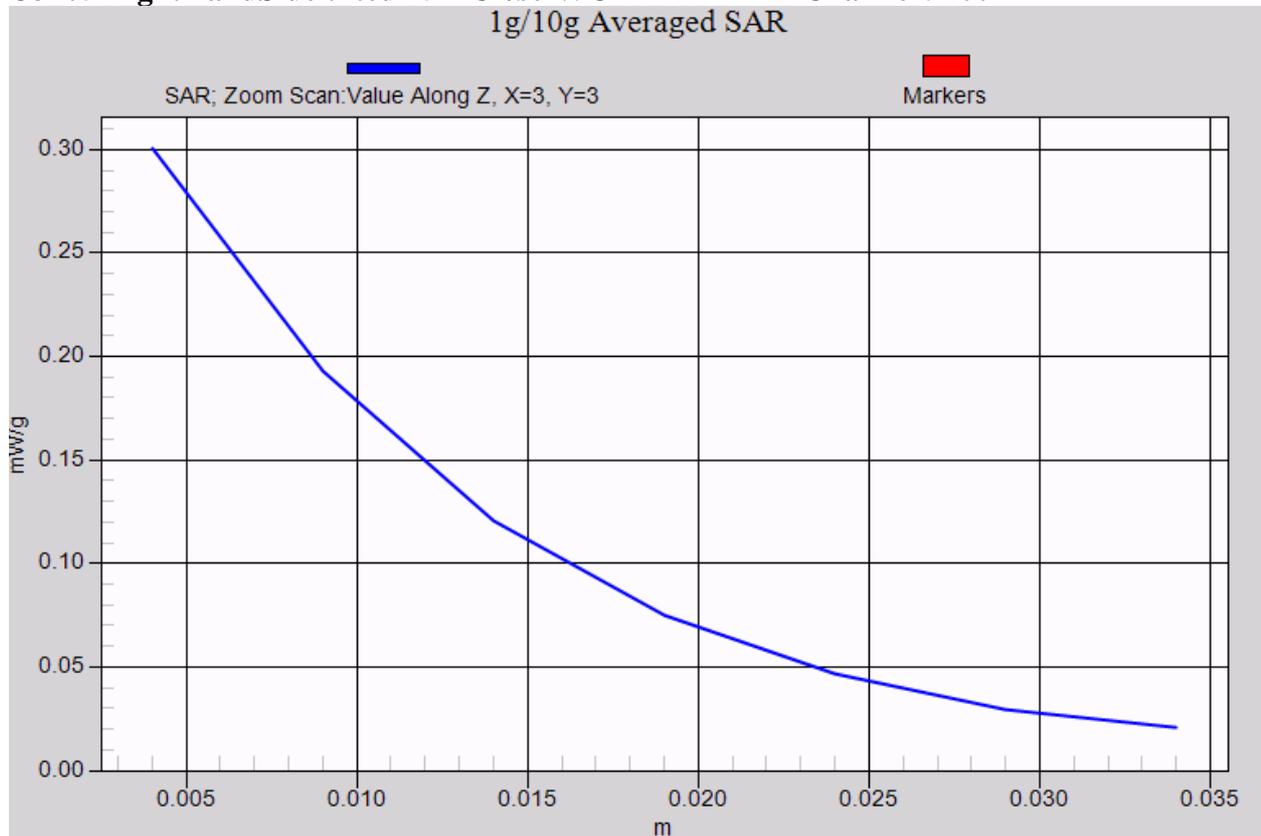
U3205 LeftHandSide tilted 15°-Open-WCDAM FDD II Channel 9400



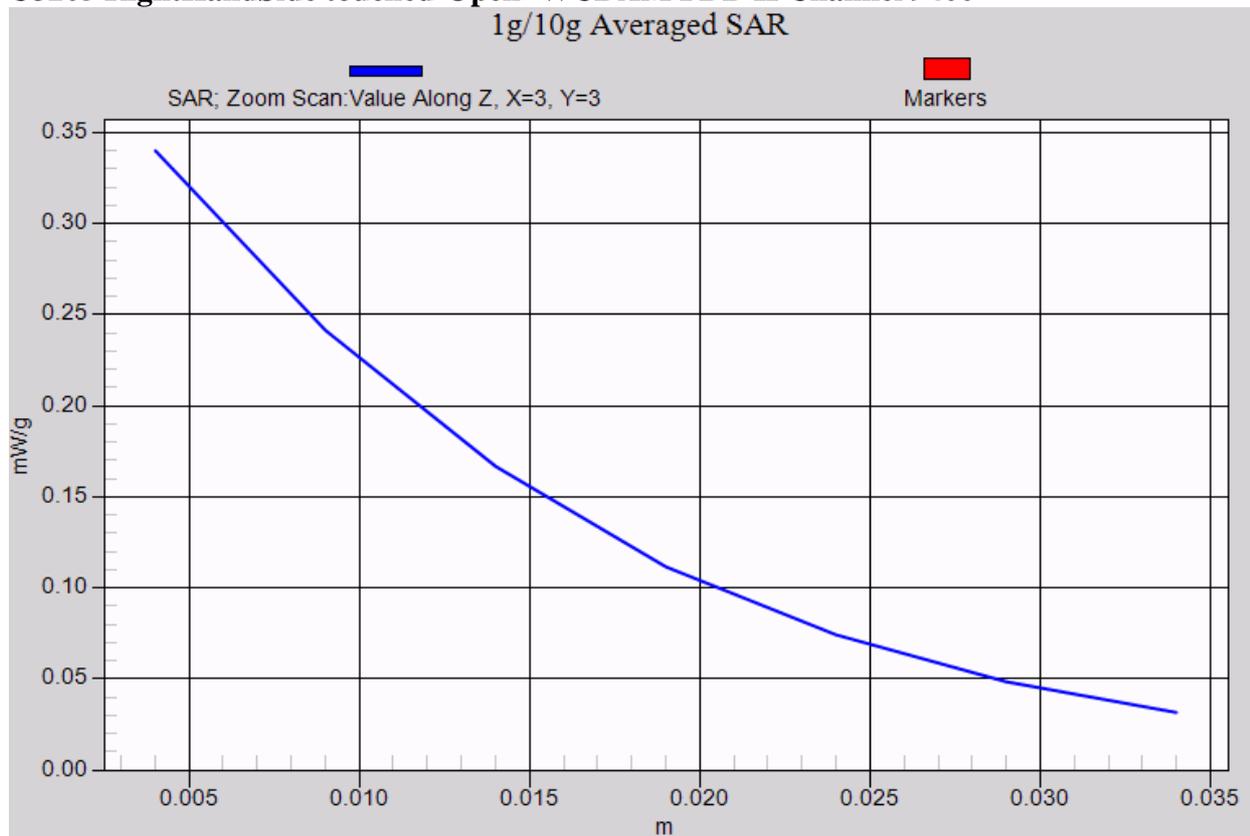
U3205 RightHandSide touched-Close- WCDAM FDD II Channel 9400



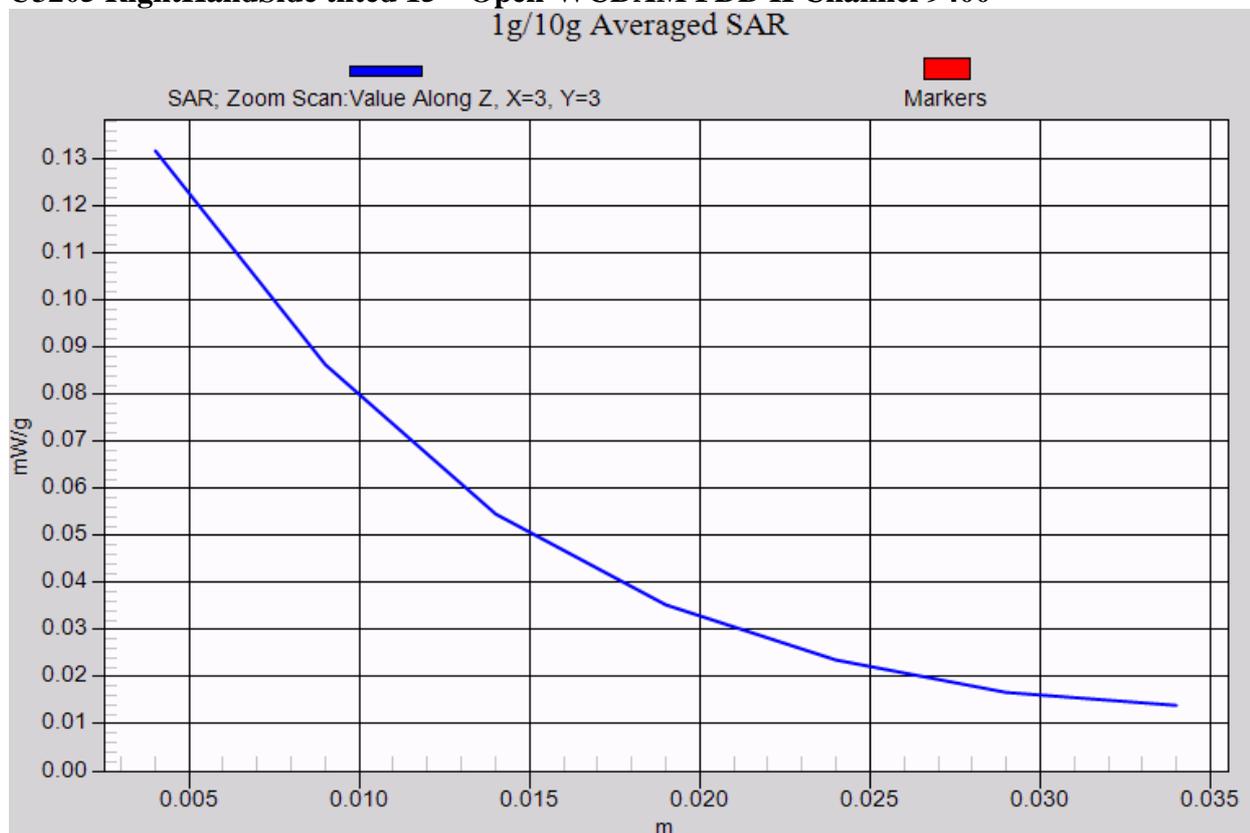
U3205 RightHandSide tilted 15°- Close-WCDAM FDD II Channel 9400



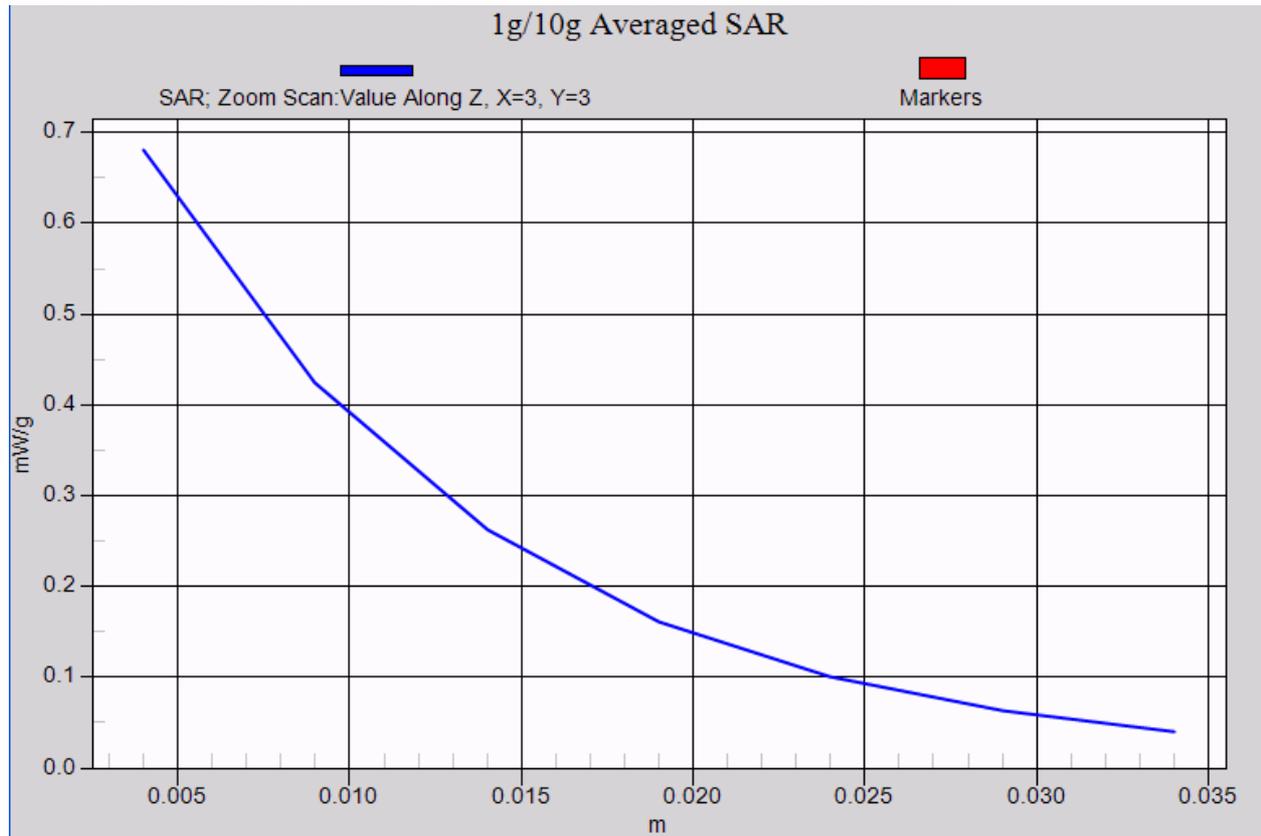
U3205 RightHandSide touched-Open- WCDAM FDD II Channel 9400



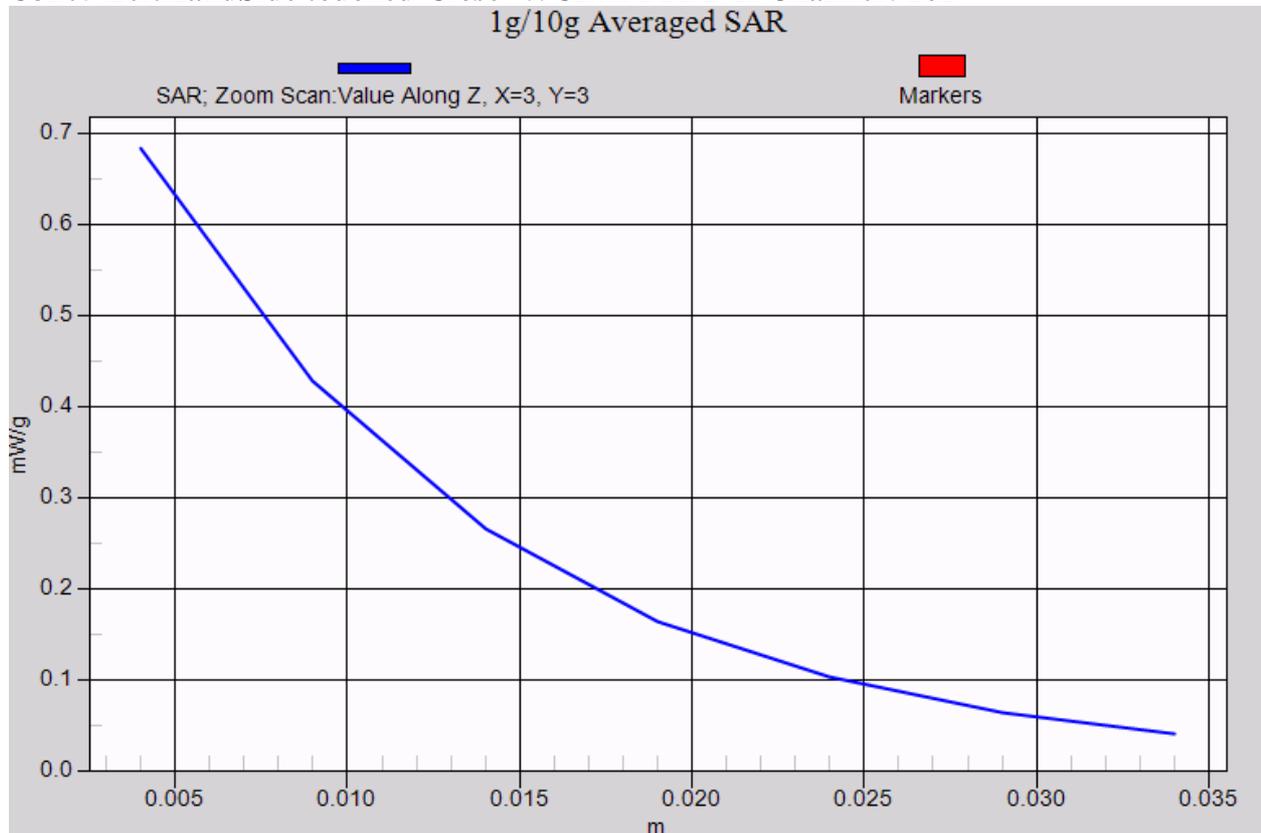
U3205 RightHandSide tilted 15° - Open-WCDAM FDD II Channel 9400



U3205 LeftHandSide touched-Close- WCDAM FDD II Channel 9538



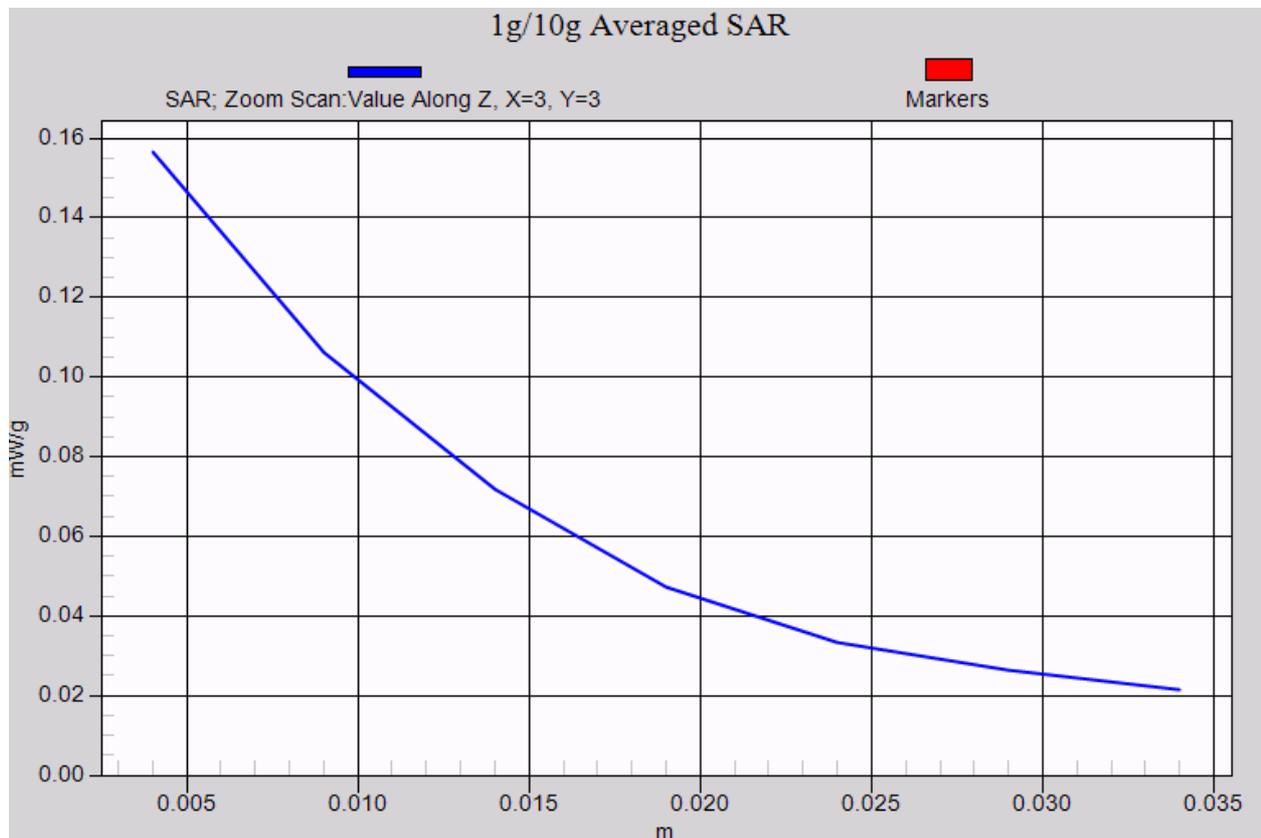
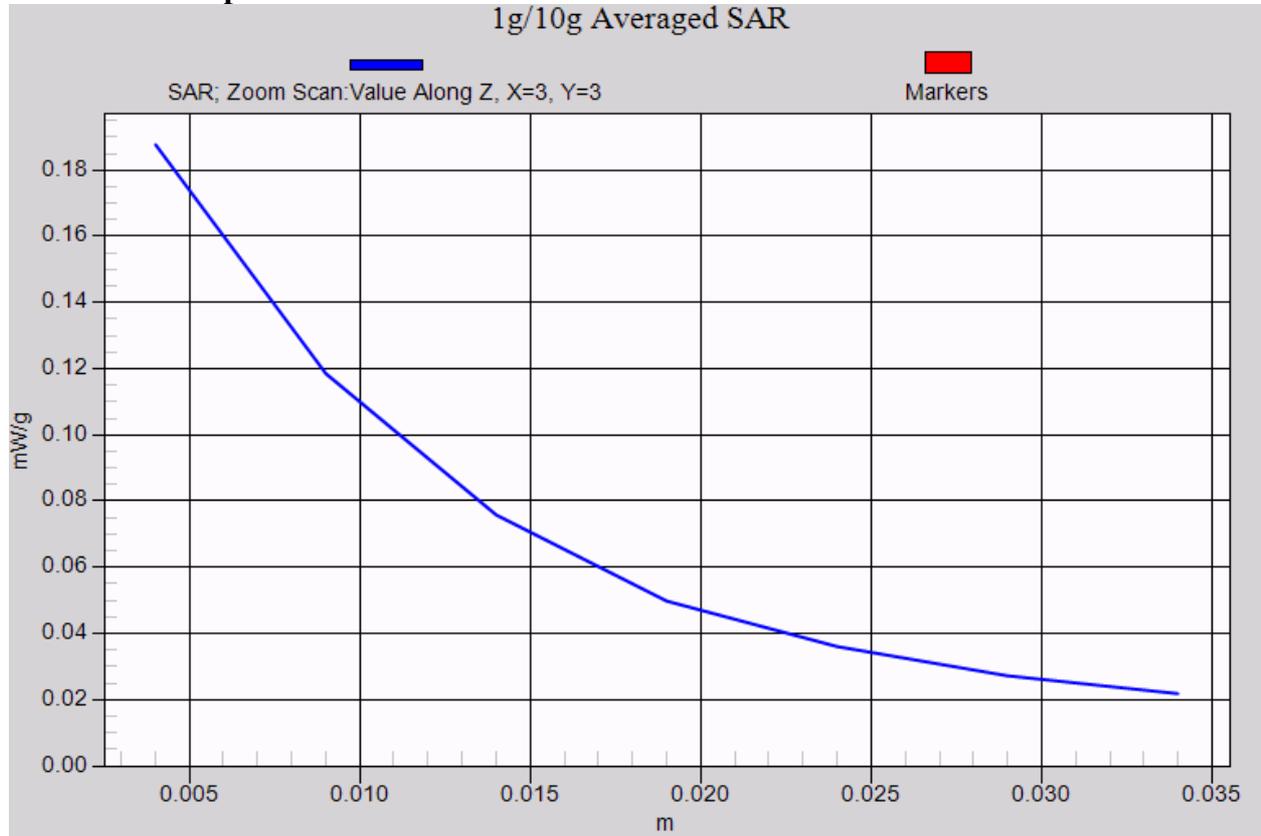
U3205 LeftHandSide touched-Close- WCDAM FDD II Channel 9262



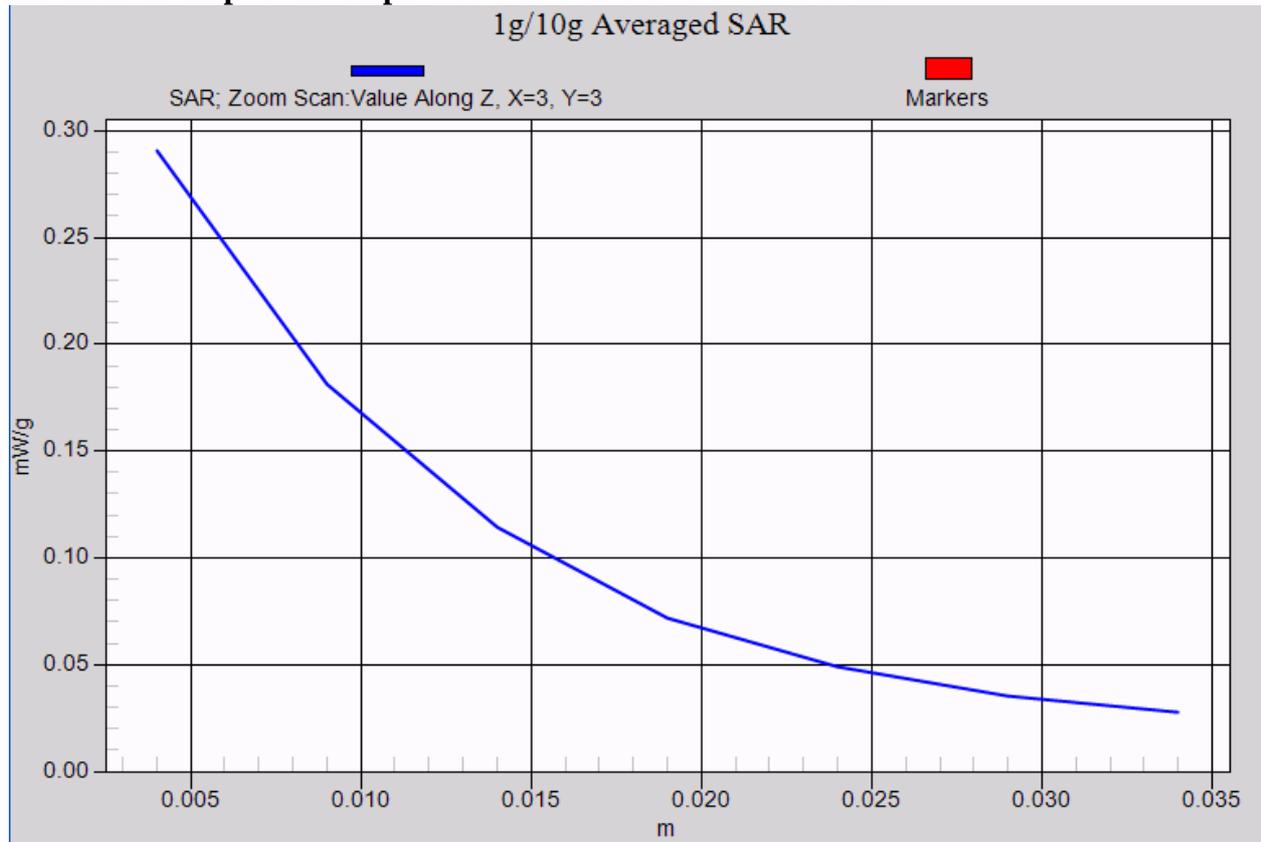
WCDAM FDD II body:

U3205 towards phantom-Close- WCDAM FDD II Channel 9400

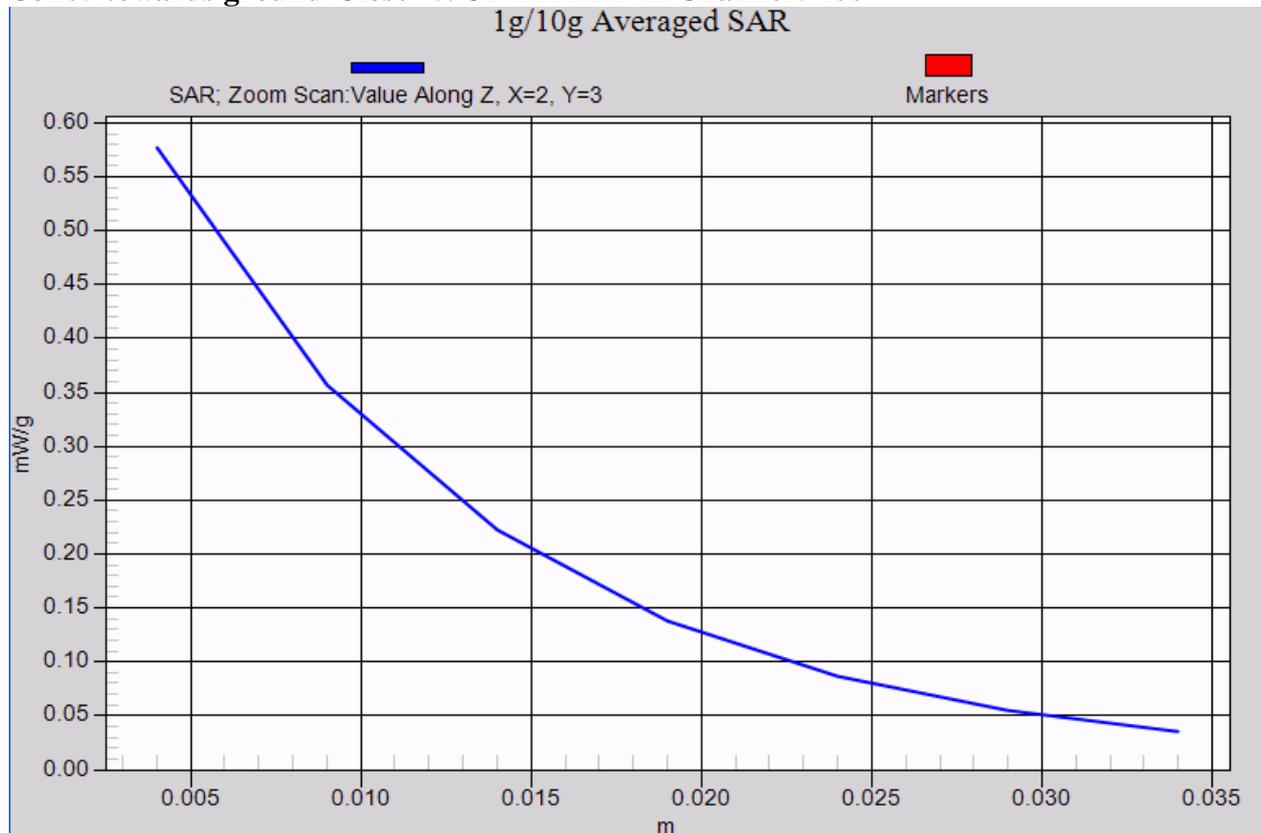
1g/10g Averaged SAR



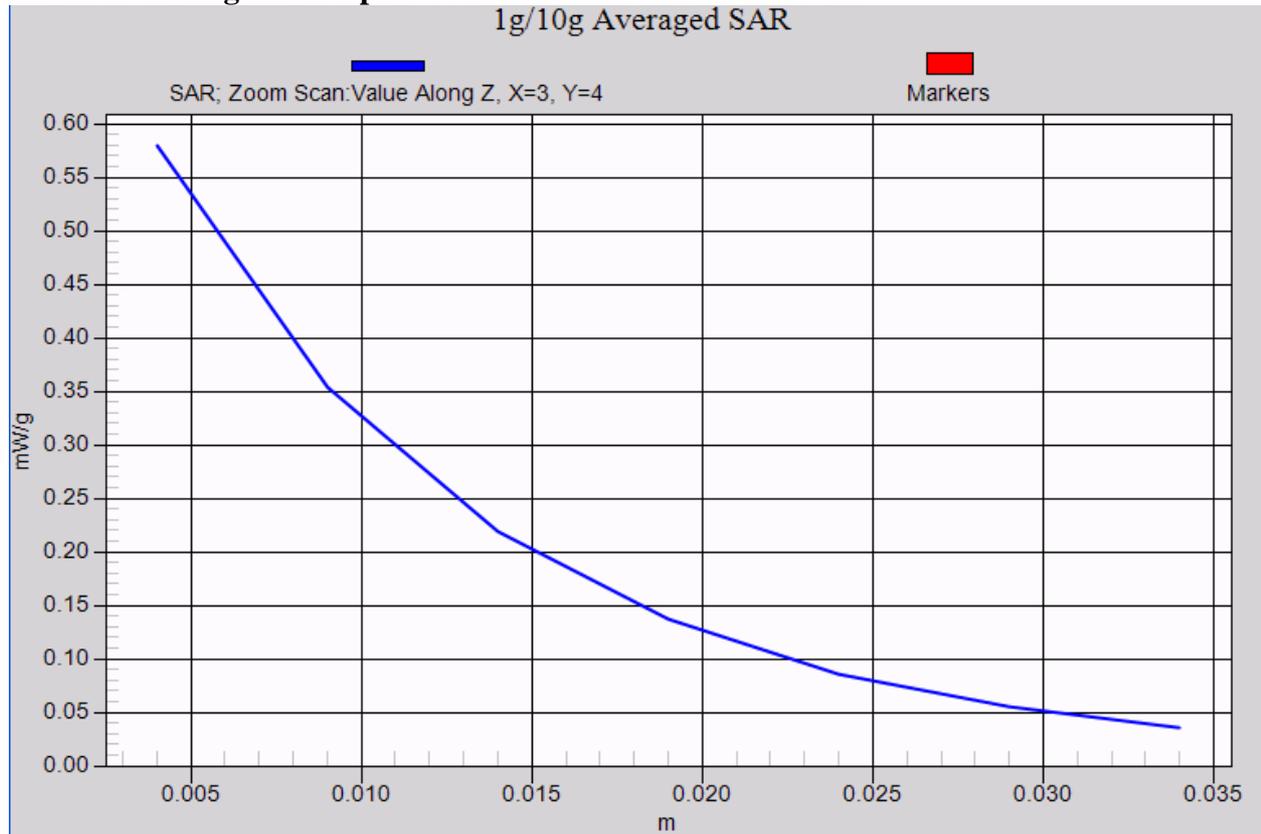
U3205 towards phantom-Open- WCDAM FDD II Channel 9400



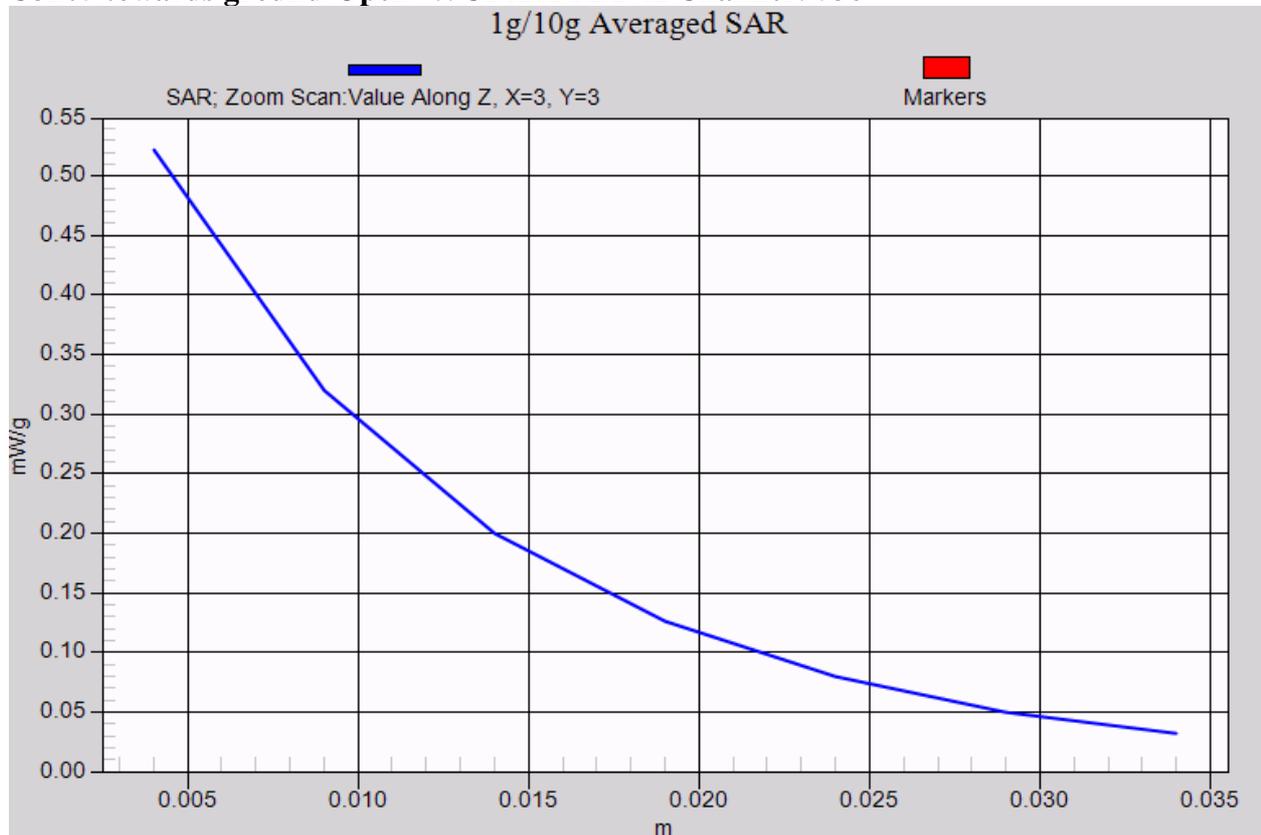
U3205 towards ground-Close- WCDAM FDD II Channel 9400



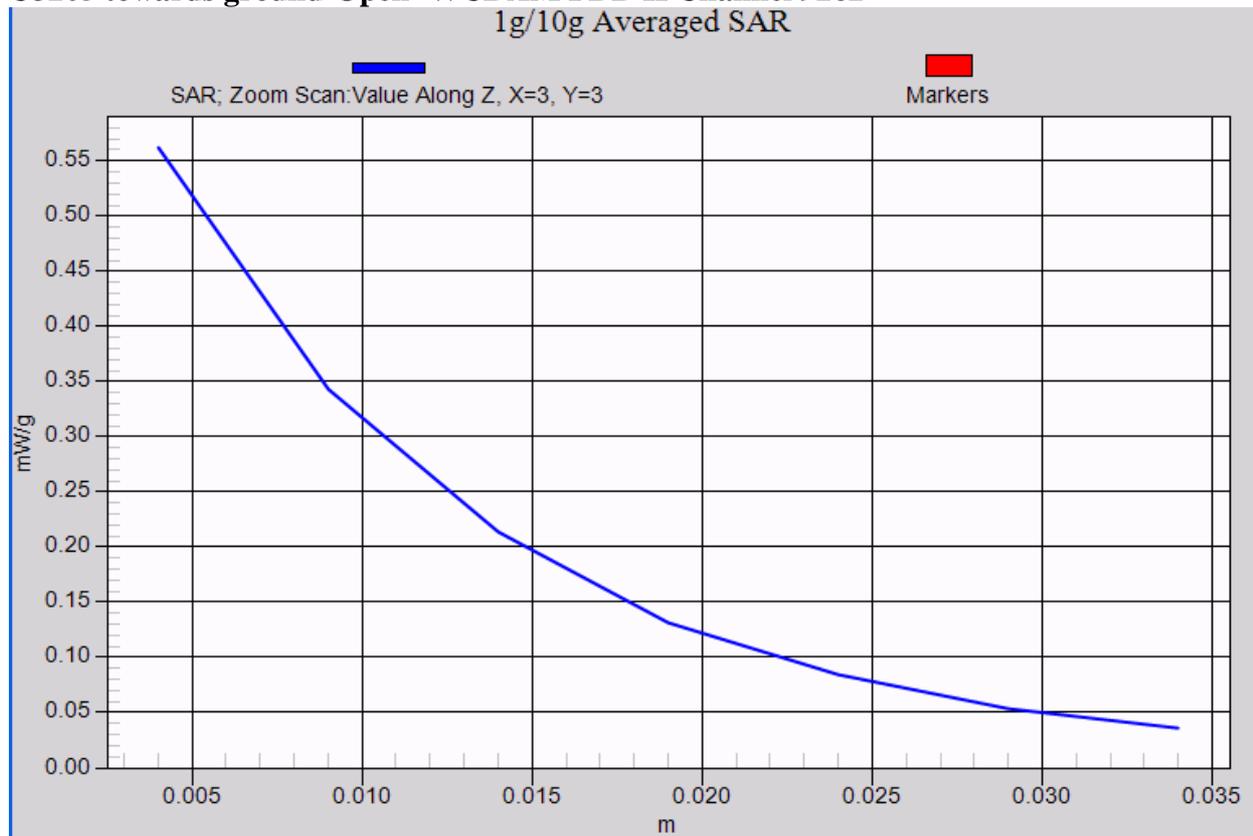
U3205 towards ground-Open- WCDAM FDD II Channel 9400



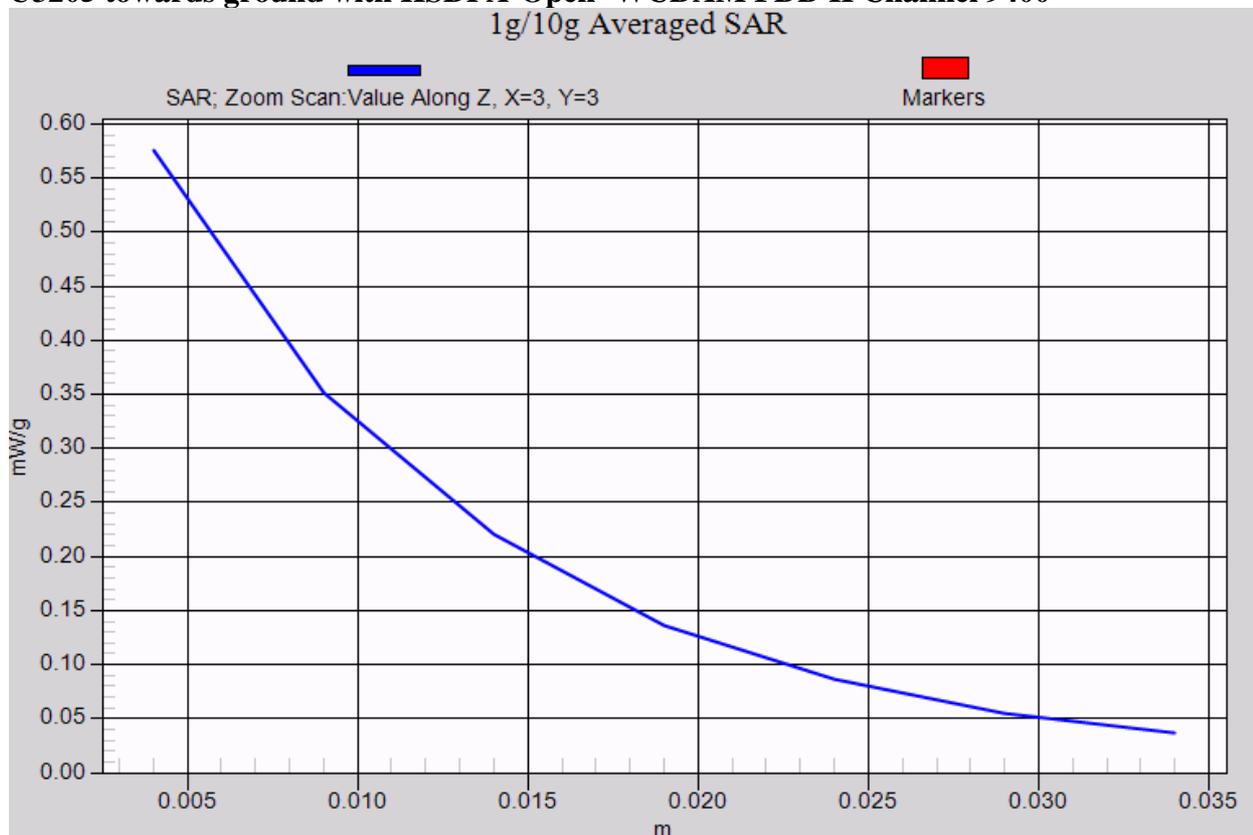
U3205 towards ground-Open- WCDAM FDD II Channel 9538



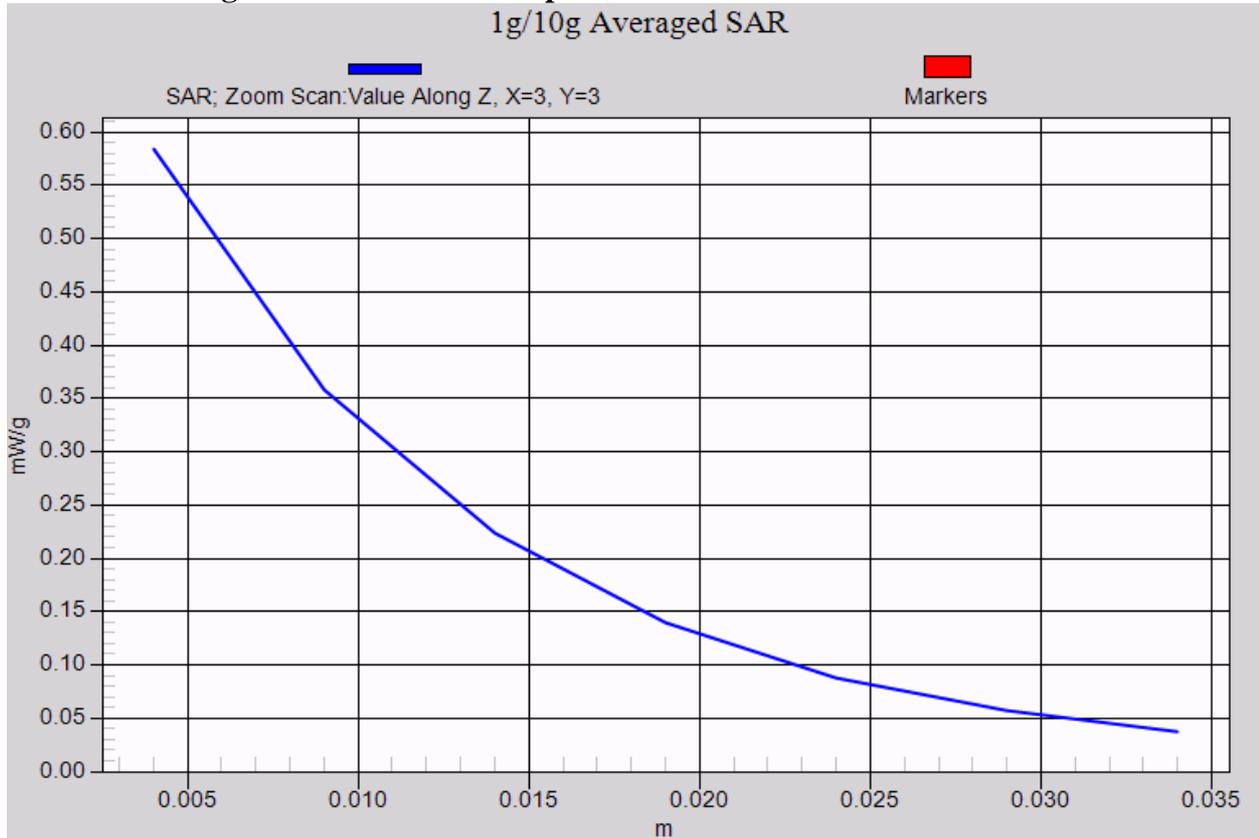
U3205 towards ground-Open- WCDAM FDD II Channel 9262



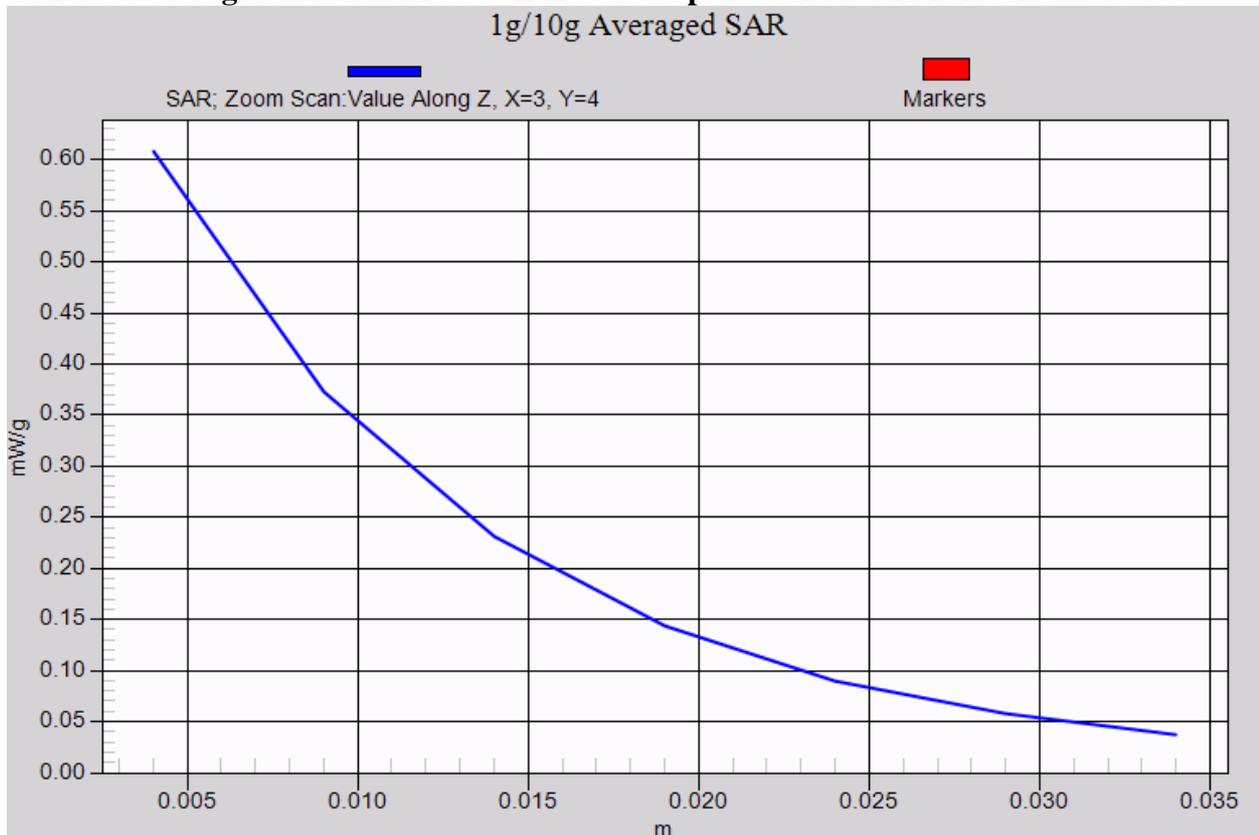
U3205 towards ground with HSDPA-Open- WCDAM FDD II Channel 9400



U3205 towards ground with Headset-Open- WCDAM FDD II Channel 9400



U3205 towards ground with Bluetooth Headset-Open-WCDAM FDD II Channel 9400



Annex 3 Calibration parameters

Calibration parameters are described in the additional document:

**Appendix to test report no. SYBH(Z-SAR)101092009
Calibration data, Phantom certificate
and detail information of the DASY5 System**