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## CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

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Report No.: SRTC2011-H024-E0040

Product Name: GSM/GPRS/EDGE/WCDMA

Digital Mobile Phone with Bluetooth

Marketing Name: one touch 900A

Product Model: yippee 3G\_A2

Applicant: TCT Mobile Limited

Manufacture: TCT Mobile Limited

Specification: FCC OET Bulletin 65 (Edition 97-01)

Supplement C (Edition 01-01)

47CFR 2.1093

FCC ID: RAD197

The State Radio\_monitoring\_center Testing Center (SRTC)

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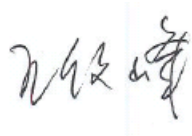
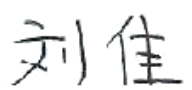
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## Executive summary

<b>Test report no.:</b>	<b>SRTC2011-H024-E0040</b>
<b>Product Model:</b>	<b>yippee 3G_A2</b>
<b>Date of test:</b>	<b>2011.05.23</b>
<b>Date of report:</b>	<b>2011.05.24</b>
<b>Laboratory:</b>	<b>The State Radio_monitoring_center Testing Center (SRTC)</b>
<b>Test has been Carried out in accordance with:</b>	<p>47CFR §2.1093</p> <p>Radiofrequency Radiation Exposure Evaluation: Portable Devices</p> <p><b>FCC OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01)</b></p> <p>Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields</p> <p><b>RSS-102</b></p> <p>Evaluation Procedure for Mobile and Portable Radio Transmitters with Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields</p> <p><b>IEEE 1528 - 2003</b></p> <p>IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Technique</p>
<b>Documentation:</b>	<b>The documentation of the testing performed on the tested devices is archived for 5 years at SRTC</b>

## Result summary:

Mode	CH/f(MHz)	Power (dBm)	Position	Sar Limit (1g avg) (mW/g)	Measured value (1g avg)(mW/g)	Result
WCDMA B2	9662/1852.4	23.78	Left cheek	1.6	<b>1.19</b>	PASS

<p>This Test Report Is Issued by: Mr. Song Qizhu Director of the test lab</p> 	<p>Checked by: Mr. Wang Junfeng Deputy director of the test lab</p> 
<p>Tested by: Ms. Liu Jia Test engineer</p> 	<p>Issued date:  <b>2011.06.21</b></p>

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## 1. GENERAL INFORMATION

### 1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio\_monitoring\_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested.

### 1.2 Information about the testing laboratory

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Grantee Code: RAD  
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Contacted person: Gong Zhizhou  
Tel: +86-21-61460890  
Fax: +86-21-61460602  
Email: zhizhou.gong@jrdcom.com

## 1.5 Test Details

Period of test	2011.05.23
Batteries used in testing	Li-Lon/CAB31L0000C1/BYD LITHIUM BATTERY CO., LTD
	Li-Lon/CAB31L0000C2/SHENZHEN BAK BATTERY CO., LTD
State of sample	production unit
Headsets used in testing	CCB3160A10C2/Lianyun Electronic Technology CO.,LTD.
	CCB3160A10C0/Shen Zhen Ju Wei Electronic Co.,LTD
H/W Version	LOT1
S/W Version	sw53K
IMEI	012787000001011
Device class/ Multislot class	B/12
DTM	N/A
Notes	As the information described above, there are two different models of battery manufactured by two different companies, and two different models of headset manufactured by two different companies. The relevant tests have been performed in order to verify in which combination case (EUT exercised by only one model of battery and one model of headset) the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT exercised by the battery CAB31L0000C1 and the headset CCB3160A10C2.

## 1.6 Maximum Results

The maximum measured SAR values for Head configuration and Body Worn configuration are given in section 1.6.1 and 1.6.2 respectively. The device conforms to the requirements of the standard(s) when the maximum measured SAR value is less than or equal to the limit.

### 1.6.1 GSM

The multi-slot mode configuration level in GPRS and EDGE is the class 12. The configurations including four slot modes below:

1Txslot: 4 downlink and 1 uplink

2Txslots: 3 downlink and 2 uplink

3Txslots: 2 downlink and 3 uplink

4Txslots: 1 downlink and 4 uplink

The DUT's output power was test through the conducted spurious emissions with the four slot modes,and the maximum averaged power was under 2 downlink and 3 uplink mode. Therefore, during GPRS and EDGE test will choose 2 downlink and 3 uplink mode as the basic test mode.

### Head Configuration

Mode	CH/f(MHz)	Power (dBm)	Position	Sar Limit (1g avg) (mW/g)	Measured value (1g avg)(mW/g)	Result
GSM850	189/836.4	33.25	Right cheek	1.6	<b>0.949</b>	PASS
GSM1900	512/1850.2	29.64	Left cheek	1.6	<b>1.18</b>	PASS

### Body Worn Configuration

Mode	CH/f(MHz)	Power (dBm)	Position	Sar Limit (1g avg) (mW/g)	Measured value (1g avg)(mW/g)	Result
GSM850	128/824.2	33.25	Towards ground	1.6	<b>0.531</b>	PASS
GSM1900	512/1850.2	29.64	Towards ground	1.6	<b>0.317</b>	PASS

## 1.6.2 WCDMA

The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2 kbps RMC (reference measurement channel) configured in Test Loop Mode 1. The dedicated channel will be set with RMC type, and the transmit power control in ALL UP BITS.

### Head Configuration

Mode	CH/f(MHz)	Power (dBm)	Position	Sar Limit (1g avg) (mW/g)	Measured value (1g avg)(mW/g)	Result
WCDMA B2	9662/1852.4	23.78	Left cheek	1.6	<b>1.19</b>	PASS
WCDMA B5	4123/826.4	23.75	Right cheek	1.6	<b>1.01</b>	PASS

### Body Worn Configuration

Mode	CH/f(MHz)	Power (dBm)	Position	Sar Limit (1g avg) (mW/g)	Measured value (1g avg)(mW/g)	Result
WCDMA B2	9400/1880	22.56	Towards ground	1.6	<b>0.664</b>	PASS
WCDMA B5	4183/836.5	23.61	Towards ground	1.6	<b>0.575</b>	PASS

## 2. DESCRIPTION OF THE DEVICE UNDER TEST

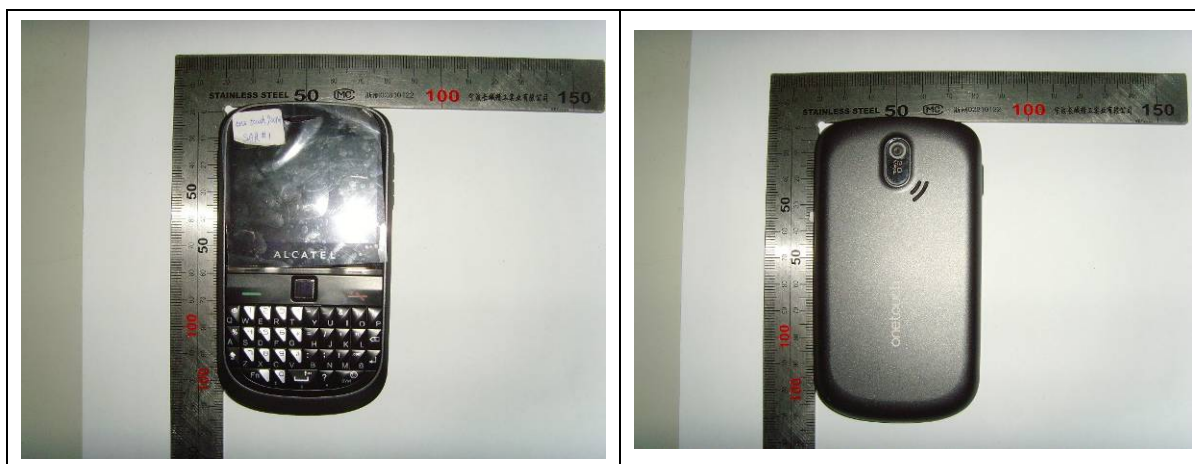
Device category	production unit
Exposure enviroment	General population/uncontrolled

Modes and Bands of operation	GSM 850	GSM 1900	GPRS	EGPRS	WCDMA B2	WCDMA B5
Modulation Mode	GMSK	GMSK	GMSK	8-PSK /GMSK	QPSK	QPSK
Duty Cycle	1/8	1/8	1/4	1/2	1/1	1/1
Transmitter Frequency Range(MHz)	824-849	1850-1910	824-849 1850-1910	824-849 1850-1910	1850-1910	824-849

### 2.1 Description of the Antenna

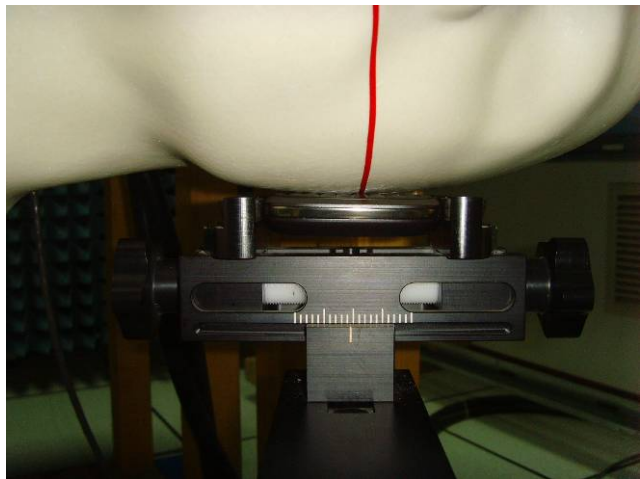
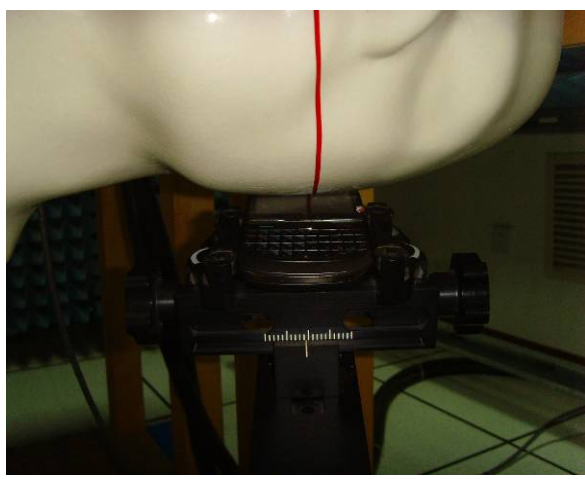
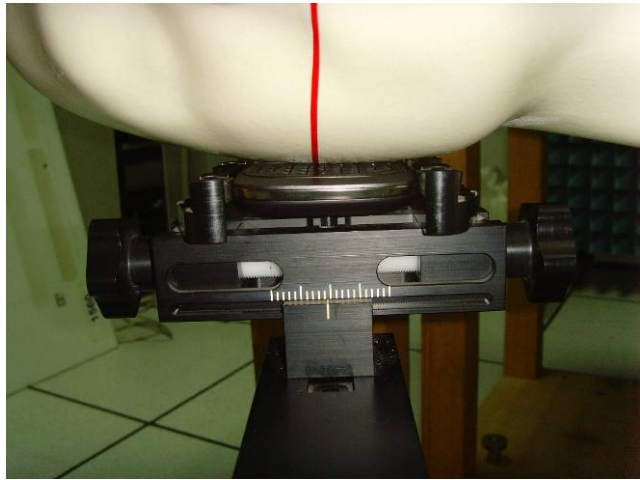

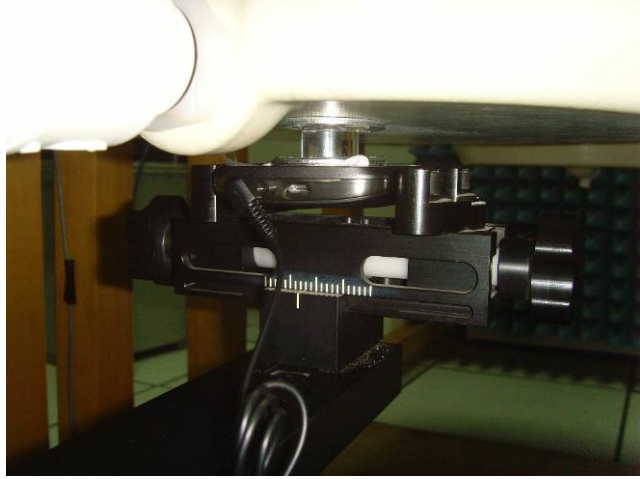

The device has an internal antenna.please refer to section 7.3.

### 2.2 Picture of the EUT





### 2.3 Test Positions for the Device under test

	
<p><b>Cheek position, left side</b></p>	<p><b>Tilt position, left side</b></p>
	
<p><b>Cheek position, Right side</b></p>	<p><b>Tilt position, Right side</b></p>
	
<p><b>FLAT position (towards phantom)</b></p>	<p><b>15mm spacer</b></p>



## 2.4 Picture to demonstrate the required liquid depth

the liquid depth in the used SAM phantoms



**Liquid depth for SAR Measurement**

## 3. TEST CONDITIONS

### 3.1 Temperature and Humidity

Ambient temperature (° C)	21.0 to 23.0
Ambient humidity ( RH %)	30 to 45

### 3.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on lowest, middle and highest channels.

### 3.3 SAR Measurement Set-up

The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than  $\pm 0.02\text{mm}$ . Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit. A cell controller system contains the power supply, robot controller, teaches pendant (Joystick),and remote control, is used to drive the robot motors.

The PC consists of the Micron Pentium IV computer with Windows 2000 system and

SAR Measurement Software DASY4 Professional, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected

to the cell controller to allow software manipulation of the robot.

A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines.

The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection

The robot uses its own controller with a built in VME-bus computer.

## 4. DESCRIPTION OF THE TEST EQUIPMENT

### 4.1 Measurement System and Components

The measurements were performed using an automated near-field scanning system, DASY4, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration interval	Calibration expiry
DAE4	720	1year	2012.01.19
Dosimetric E-field Probe ES3DV3	3128	1year	2011.06.22
Dipole Validation Kit, D900V2	171	2 years	2012.06.11
Dipole Validation Kit, D1800V2	2d084	2 years	2012.06.11
DASY4 software Version	4.7	N/A	N/A

Note: the Dipole Calibration interval is 24 months

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration interval	Calibration expiry
Signal Generator	E4428C	MY45280865	1year	2011.08.20
Amplifier	5S1G4	0323472	N/A	N/A
Power meter	E4417A	MY45101182	1year	2011.08.20
Power Sensor	E4412A	MY41502214	1year	2011.08.20

Power Sensor	E4412A	MY41502130	1year	2011.08.20
Call Tester	8960	GB43194054	1year	2011.08.20
Network Analyzer	8714ET	US40372083	1year	2011.08.20
Dielectric Probe Kit	85070D	US33030365	N/A	N/A

#### Detailed information of Isotropic E-field Probe Type ES3DV3

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to 4 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 4 GHz)
Optical Surface Detection	$\pm 0.2$ mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm
Dynamic Range	5 $\mu$ W/g to > 100 mW/g; Linearity: $\pm 0.2$ dB
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones

## 4.2 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twinheaded "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528 - 2003.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

## 4.3 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 - 2003 and FCC Supplement C to OET Bulletin 65. All tests were carried out using simulants whose dielectric parameters were within  $\pm 5\%$  of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was  $15.0 \pm 0.5$  cm measured from the ear reference point during system checking and device measurements.

### 4.3.1 Tissue Simulant Recipes

The following recipe(s) were used for Head and Body tissue stimulant(s):

#### 835MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Water	41.45	52.50
Sugar	56.00	45.0
Nacl	1.45	1.40
Cellulose	1.0	1.0
Preventol	0.1	0.10

#### 1900MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Water	44.45	70.17
DGBE	55.24	29.44
Nacl	0.31	0.39

### 4.3.2 System Checking

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system checking results (dielectric parameters and SAR values) are given in the table below. Test Date is 2011.5.23

#### System checking,head tissue simulant

		SAR <sub>1g</sub> [w/kg]	$\epsilon_r$	$\sigma$ [S/m]	Temperature	
					Ambient[°C]	Liquid[°C]
900MHz	Target Value	10.8	41.5±2.1	0.97±0.05	15-30	-
	Measured Value	10.9	41.5	0.98	24.0	22.3

All SAR values are normalized to 1W forward power

		SAR <sub>1g</sub> [w/kg]	ε <sub>r</sub>	σ[S/m]	Temperature	
					Ambient[°C]	Liquid[°C]
1800MHz	Target Value	38.1	40±1.9	1.40±0.07	15-30	-
	Measured Value	38.8	39.4	1.35	24.0	22.3

All SAR values are normalized to 1W forward power

Plots of the system checking scans are given in Appendix A.

#### 4.3.3 Tissue Simulants used in the Measurements

For the measurement of the following parameters the HP 85070D dielectric probe kit is used, representing the open-ended coaxial probe measurement procedure. Liquid temperature during the test: 22.3° C。 Tested date is 2011.5.23

Head		ε <sub>r</sub>	σ[S/m]	Temperature	
				Ambient [°C]	Liquid [°C]
850MHz	Recommended Value	41.5±2.1	0.97±0.05	15-30	-
	Measured Value	41.5	0.98	24.0	22.3
1900MHz	Recommended Value	40±1.9	1.40±0.07	15-30	-
	Measured Value	39.0	1.44	24.0	22.3

Body		$\epsilon_r$	$\sigma$ [S/m]	Temperature	
				Ambient t [°C]	Liquid [°C]
850MHz	Recommended Value	55.0±2.8	1.05±0.05	15-30	-
	Measured Value	54.6	1.00	24.0	22.3
1900MHz	Recommended Value	53.3±2.7	1.52±0.08	15-30	-
	Measured Value	54.6	1.49	24.0	22.3

## 5. DESCRIPTION OF THE TEST PROCEDURE

### 5.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.



Device holder supplied by SPEAG



---

## 5.2 Test positions

### 5.2.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2003 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

### 5.2.2 Body Worn Configuration

The device was placed in the SPEAG holder below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance using a separate flat spacer that was removed before the start of the measurements. And the distance is 1.5cm. The device was oriented with its antenna facing the phantom since this orientation gives higher results.

## 5.3 Scan Procedure

First, area scans were used for determination of the field distribution and the approximate location of the local peak SAR values. The SAR distribution is scanned along the inside surface, at least for an area larger than the projection of the handset and antenna. The angle between the probe axis and the surface normal line is recommended but not required to be less than 30°. The SAR distribution is first measured on a 2-D coarse grid. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. It is a 15 mm × 15 mm measurement grid used when two staggered one-dimensional cubic splines are used to estimate the maximum SAR location. Next, a zoom scan, a minimum of 7 x 7x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

## 5.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within Dasy4 are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation Of Large Sets Of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2,

June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics.

In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

## 6. MEASUREMENT UNCERTAINTY

DASY4 Uncertainty Budget								
Error description	Uncertainty value	Prob . Dist.	Div.	( $c_i$ ) 1g	( $c_i$ ) 10g	Std.Unc (1g).	Std.Unc. (10g)	( $v_i$ ) $V_{eff}$
<b>Measurement system</b>								
Probe calibration	±5.9%	N	1	1	1	±5.9%	±5.9%	∞
Axial isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical isotropy	±9.6%	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	∞
Boundary effects	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System detection limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Readout electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Integration time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF ambient noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF ambient reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe positioner	±0.4%	R	$\sqrt{3}$	1	1	±0.2%	±0.2%	∞
Probe positioning	±2.9%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max.SAR Eval.	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
<b>Test Sample Related</b>								
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power drift	±5.0%	R	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞

<b>Phantom and Setup</b>								
Phantom uncertainty	±4.0%	R	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
Liquid conductivity(target)	±5.0%	R	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
Liquid conductivity(meas.)	±2.5%	N	1	0.64	0.43	±1.6%	±1.1%	∞
Liquid conductivity(target)	±5.0%	R	$\sqrt{3}$	0.6	0.49	±1.7%	±1.4%	∞
Liquid onductivity(means.)	±2.5%	N	1	0.6	0.49	±1.5%	±1.2%	∞
Combined std. Uncertainty						±10.9%	±10.7%	387
<b>Expanded STD Uncertainty</b>						<b>±21.9%</b>	<b>±21.4%</b>	

**Table 6.1 – Measurement uncertainty evaluation**

## 7. RESULTS

### 7.1 Test result

In order to determine the largest value of the peak spatial-average SAR of a handset, all device positions, configurations, and operational modes should be tested for each frequency band according to Steps 1 to 3 below.

Step 1: The tests should be performed at the channel that is closest to the center of the transmit frequency band.

Step 2: For the condition providing the highest peak spatial-average SAR determined in Step 1 for each frequency, perform all tests at all other test frequency channels, e.g., lowest and highest frequencies. In addition, for all other conditions (device position, configuration, and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies should be tested as well.

Step 3: Examine all data to determine the largest value of the peak

**The measured Head/body SAR values for the test device are tabulated below:**

**Mode: GSM 850**

$f_L$ (MHz)=824.2MHz

$f_M$ (MHz)=836.4 MHz

$f_H$ (MHz)= 848.8MHz

SAR Values (Head, 850MHz Band)

<b>Limit of SAR (W/kg)</b>	<b>1 g Average</b>
	1.6
<b>Test Case</b>	<b>Measurement Result ( mW/g)</b>
	<b>1g Average</b>
Left hand, Touch cheek, $f_H$	0.841

Left hand, Touch cheek, $f_M$	0.869
Left hand, Touch cheek, $f_L$	0.877
Left hand, Tilt 15 Degree, $f_H$	0.62
Left hand, Tilt 15 Degree, $f_M$	0.643
Left hand, Tilt 15 Degree, $f_L$	0.64
Right hand, Touch cheek, $f_H$	0.906
Right hand, Touch cheek, $f_M$	<b>0.949</b>
Right hand, Touch cheek, $f_L$	0.935
Right hand, Tilt 15 Degree, $f_H$	0.58
Right hand, Tilt 15 Degree, $f_M$	0.607
Right hand, Tilt 15 Degree, $f_L$	0.557

So, the maximum SAR is

Phantom Configuration	Device Test Position	SAR(mW/g)/ (10g/1g)		
		$f_L$ (MHz)	$f_M$ (MHz)	$f_H$ (MHz)
Right Side	Cheek	---	<b>0.949</b>	---

**Mode: GSM850 (GSM/GPRS/EDGE)**

$f_L$ (MHz)=824.2MHz       $f_M$ (MHz)=836.4 MHz       $f_H$ (MHz)= 848.8MHz

SAR Values (body, 850MHz Band)

Limit of SAR (W/kg)	1 g Average
	1.6
Test Case	Measurement Result ( mW/g)
	1 g Average
Towards ground/GSM, with headset 15mm spacer $f_H$	0.361
Towards ground/GSM, with headset 15mm spacer $f_M$	0.505
Towards ground/GSM, with headset 15mm spacer $f_L$	<b>0.531</b>
Towards phantom/GSM, with headset 15mm spacer $f_M$	0.388
Towards ground/GPRS, 15mm spacer $f_M$	0.352
Towards phantom/GPRS, 15mm spacer $f_M$	0.378
Towards ground/EGPRS, 15mm spacer $f_M$	0.103
Towards phantom/EGPRS, 15mm spacer $f_M$	0.0918

During the body testing GPRS/EDGE work at the “2 downlink and 3 uplink”, at this Tx slot RF averaged power is larger than other Tx slots.

So, the maximum SAR is

Phantom Configuration	Device Test Position	SAR(mW/g)		
		f <sub>L</sub> (MHz)	f <sub>M</sub> (MHz)	f <sub>H</sub> (MHz)
Towards Ground/GSM	15mm spacer	<b>0.531</b>	---	---

**Mode: GSM1900**

f<sub>L</sub>(MHz)=1850.2MHz      f<sub>M</sub>(MHz)=1880.0MHz      f<sub>H</sub>(MHz)=1909.8MHz

SAR Values (Head, 1900MHz Band)

Limit of SAR (W/kg)	1 g Average
	1.6
Test Case	Measurement Result ( mW/g)
	1g Average
Left hand, Touch cheek, f <sub>H</sub>	0.991
Left hand, Touch cheek, f <sub>M</sub>	1.1
Left hand, Touch cheek, f <sub>L</sub>	1.16
Left hand, Tilt 15 Degree, f <sub>H</sub>	0.25
Left hand, Tilt 15 Degree, f <sub>M</sub>	0.293
Left hand, Tilt 15 Degree, f <sub>L</sub>	0.318
Right hand, Touch cheek, f <sub>H</sub>	1.0
Right hand, Touch cheek, f <sub>M</sub>	1.11
Right hand, Touch cheek, f <sub>L</sub>	<b>1.18</b>
Right hand, Tilt 15 Degree, f <sub>H</sub>	0.187
Right hand, Tilt 15 Degree, f <sub>M</sub>	0.186
Right hand, Tilt 15 Degree, f <sub>L</sub>	0.242

So, the maximum SAR is

Phantom Configuration	Device Test Position	SAR(mW/g)		
		f <sub>L</sub> (MHz)	f <sub>M</sub> (MHz)	f <sub>H</sub> (MHz)
Right Side	Cheek	<b>1.18</b>	---	---

**Mode: GSM1900 (GSM/GPRS/EDGE)**

$f_L$ (MHz)=1850.2MHz       $f_M$ (MHz)=1880.0MHz       $f_H$ (MHz)=1909.8MHz

SAR Values (body, 1900MHz Band)

Limit of SAR (W/kg)	1 g Average	
	1.6	
Test Case	Measurement Result ( mW/g)	
	1 g Average	
Towards ground/GSM, with headset 15mm spacer $f_H$	0.258	
Towards ground/GSM, with headset 15mm spacer $f_M$	0.296	
Towards ground/GSM, with headset 15mm spacer $f_L$	<b>0.317</b>	
Towards phantom/GSM, with headset 15mm spacer $f_M$	0.279	
Towards ground/GPRS, 15mm spacer $f_M$	0.25	
Towards phantom/GPRS, 15mm spacer $f_M$	0.295	
Towards ground/EGPRS, 15mm spacer $f_M$	0.124	
Towards phantom/EGPRS, 15mm spacer $f_M$	0.105	

During the body testing GPRS/EDGE work at the “2 downlink and 3 uplink”, at this Tx slot RF averaged power is larger than other Tx slots.

So, the maximum SAR is

Phantom Configuration	Device Test Position	SAR(mW/g)		
		$f_L$ (MHz)	$f_M$ (MHz)	$f_H$ (MHz)
Towards ground/GPRS	15mm spacer	<b>0.317</b>	---	---



**Mode: WCDMA B5**

$f_L$ (MHz)=826.4MHz      $f_M$ (MHz)=836.4MHz      $f_H$ (MHz)= 846.6MHz

SAR Values (Head, WCDMA B5)

Limit of SAR (W/kg)	1 g Average
	1.6
Test Case	Measurement Result ( mW/g)
	1 g Average
Left hand, Touch cheek , $f_H$	0.832
Left hand, Touch cheek, $f_M$	0.947
Left hand, Touch cheek , $f_L$	0.78
Left hand, Tilt 15 Degree, $f_H$	0.481
Left hand, Tilt 15 Degree, $f_M$	0.546
Left hand, Tilt 15 Degree, $f_L$	0.499
Right hand, Touch cheek, $f_H$	<b>1.01</b>
Right hand, Touch cheek, $f_M$	0.904
Right hand, Touch cheek, $f_L$	0.822
Right hand, Tilt 15 Degree $f_H$	0.526
Right hand, Tilt 15 Degree $f_M$	0.504
Right hand, Tilt 15 Degree, $f_L$	0.493

So, the maximum SAR is

Phantom Configuration	Device Test Position	SAR(mW/g)		
		$f_L$ (MHz)	$f_M$ (MHz)	$f_H$ (MHz)
Right Side	Cheek	---	---	<b>1.01</b>

**Mode: WCDMA B5**

$f_L$ (MHz)=826.4MHz      $f_M$ (MHz)=836.4MHz      $f_H$ (MHz)= 846.6MHz

SAR Values (body, WCDMA B5)

Limit of SAR (W/kg)	1 g Average
	1.6
Test Case	Measurement Result ( mW/g)
	1 g Average
Towards ground, 15mm spacer with headset $f_H$	0.341
Towards ground, 15mm spacer with headset $f_M$	<b>0.575</b>
Towards ground, 15mm spacer with headset $f_L$	0.396
Towards phantom,15mm spacer with headset $f_M$	0.507

So, the maximum SAR is

Phantom Configuration	Device Test Position	SAR(mW/g)		
		$f_L$ (MHz)	$f_M$ (MHz)	$f_H$ (MHz)
Towards ground	with headset 15mm spacer	---	<b>0.575</b>	---

**Mode: WCDMA B2**

$f_L$ (MHz)=1852.4MHz       $f_M$ (MHz)=1880MHz       $f_H$ (MHz)= 1907.6MHz

SAR Values (Head, WCDMA B2)

Limit of SAR (W/kg)	1 g Average	
	1.6	
Test Case	Measurement Result ( mW/g)	
	1 g Average	
Left hand, Touch cheek , $f_H$	1.03	
Left hand, Touch cheek, $f_M$	<b>1.19</b>	
Left hand, Touch cheek , $f_L$	<b>1.19</b>	
Left hand, Tilt 15 Degree, $f_H$	0.542	
Left hand, Tilt 15 Degree, $f_M$	0.528	
Left hand, Tilt 15 Degree, $f_L$	0.512	
Right hand, Touch cheek, $f_H$	0.915	
Right hand, Touch cheek, $f_M$	1.15	
Right hand, Touch cheek, $f_L$	1.1	
Right hand, Tilt 15 Degree $f_H$	0.272	
Right hand, Tilt 15 Degree $f_M$	0.348	
Right hand, Tilt 15 Degree, $f_L$	0.382	

So, the maximum SAR is

Phantom Configuration	Device Test Position	SAR(mW/g)		
		$f_L$ (MHz)	$f_M$ (MHz)	$f_H$ (MHz)
Right Side	cheek	<b>1.19</b>	<b>1.19</b>	---

**Mode: WCDMA B2**

$f_L$ (MHz)=1852.4MHz       $f_M$ (MHz)=1880MHz       $f_H$ (MHz)= 1907.6MHz

SAR Values (body, WCDMA B2)

Limit of SAR (W/kg)	1 g Average	
	1.6	
Test Case	Measurement Result ( mW/g)	
	1 g Average	
Towards ground, with headset 15mm spacer	$f_H$	0.495
Towards ground, with headset 15mm spacer	$f_M$	<b>0.664</b>
Towards ground, with headset 15mm spacer	$f_L$	0.629
Towards phantom, with headset 15mm spacer	$f_M$	0.558

So, the maximum SAR is

Phantom Configuration	Device Test Position	SAR(mW/g)		
		$f_L$ (MHz)	$f_M$ (MHz)	$f_H$ (MHz)
Towards ground	with headset 15mm spacer	---	<b>0.664</b>	---

## 7.2 Conducted power

Mode	GSM850(Head) Duty cycle: 1:8(12.5%)			GSM1900(Head) Duty cycle: 1:8(12.5%)		
	Channel	128	189	251	512	661
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
Measured Power(dBm)	33.25	33.25	33.26	29.64	29.74	29.80

## GPRS/EDGE Measured Power

Mode	GPRS850			GPRS1900		
	EDGE850			EDGE1900		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplink Power(dBm)	33.22	33.23	33.22	29.61	29.71	29.75
	27.37	27.40	27.42	26.17	26.31	26.39
3Downlink2uplink Power(dBm)	31.35	31.35	31.37	27.67	27.77	27.83
	27.34	27.36	27.36	26.15	26.29	26.38
2Downlink3uplink Power(dBm)	30.37	30.36	30.36	26.95	27.04	27.11
	27.30	27.33	27.34	26.14	26.26	26.33
1Downlink4uplink Power(dBm)	27.85	27.87	27.89	24.59	24.70	24.79
	27.27	27.28	27.30	24.56	24.70	24.77

### GPRS/EDGE Averaged Power

Mode	GPRS850			GPRS1900		
	EDGE850			EDGE1900		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplink	24.19	24.20	24.19	20.58	20.68	20.72
Power(dBm)	18.34	18.37	18.39	17.14	17.28	17.36
3Downlink2uplink	25.33	25.33	25.35	21.65	21.75	21.81
Power(dBm)	21.32	21.34	21.34	20.13	20.27	20.36
2Downlink3uplink	26.11	26.10	26.10	22.69	22.78	22.85
Power(dBm)	23.04	23.07	23.08	21.88	22.00	22.07
1Downlink4uplink	24.84	24.86	24.88	21.58	21.69	21.78
Power(dBm)	24.26	24.27	24.29	21.55	21.69	21.76

#### Division Factors(for Measured Power and Averaged Power):

To average the power, the division factor is as follows:

1TX-slot (4Downlink1uplink)= 1 transmit time slot out of 8 time slots=>  
conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=>  
conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink)= 3 transmit time slots out of 8 time slots=>  
conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink)= 4 transmit time slots out of 8 time slots=>  
conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots(2Downlink3uplink) for GPRS and EGPRS.

The conducted output power for wcdma:

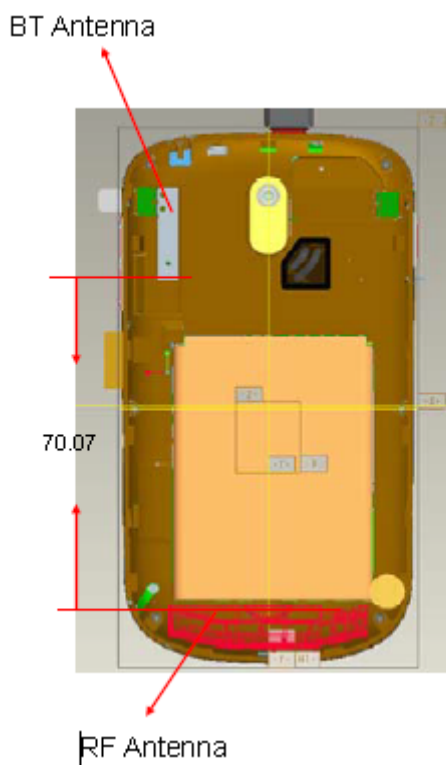


Duty cycle: 1 (100%)

Mode	WCDMA B2			WCDMA B5		
Channel	9262	9400	9538	4132	4183	4233
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.5	846.6
Measured Power(dBm)	23.78	22.56	22.55	23.75	23.61	23.29

### 7.3 Summary of Measurement Results (Bluetooth function)

The distance between BT antenna and RF antenna is 7.007cm >5cm, The location of the antennas inside mobile phone is shown below (The separation distance unit is “mm”)



and the conducted output power of BT is as following:

Channel	The output power
2402 MHz	8.63dBm
2441MHz	8.10dBm
2480MHz	7.89dBm

Conducted output power threshold for Unlicensed transmitters:

Freq (GHz)	Pref (mW)
2.45	12

The tests documented in this report were performed in accordance with the following specific FCC Test Procedures:

**KDB 648474** SAR Handsets Multi Xmitter and Ant, v01r05

BT& RF

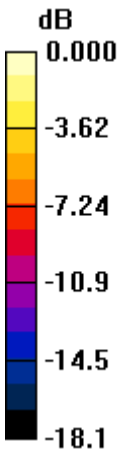
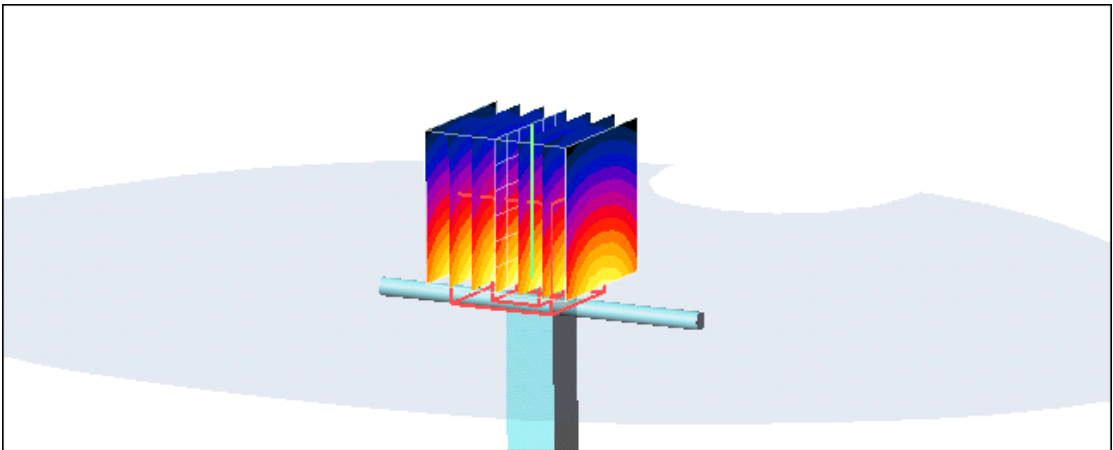
Separation distance >5cm

RF TX: Standard-alone SAR required

BT TX: Standard-alone SAR not required ( $P \leq 2P_{ref}$ )

No simultaneous Tx SAR(BT SAR=0W/kg)

**APPENDIX A: SYSTEM CHECKING SCANS**

SYSTEM CHECKING SCANS	900MHz
<p><b>DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:171</b>            Medium parameters used (interpolated): <math>f = 900 \text{ MHz}</math>; <math>\sigma = 0.95 \text{ mho/m}</math>; <math>\epsilon_r = 40.7</math>; <math>\rho = 1000 \text{ kg/m}^3</math></p> <p><b>DASY4 Configuration:</b></p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(9.03, 9.53, 9.2); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE4 - SN720; Calibrated: 1/19/2011</li> <li>- Phantom: SAM 1560; Type: SAM; Serial: 1560</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p><b>d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:</b>  <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 56.3V/m; Power Drift = -0.047 dB            Peak SAR (extrapolated) = 4.08 W/kg  <b>SAR(1 g) = 2.72 mW/g; SAR(10 g) = 1.62 mW/g</b>            Maximum value of SAR (measured) = 2.9 mW/g</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -3.62 -7.24 -10.9 -14.5 -18.1</p> </div> <div>  </div> </div> <p style="margin-top: 20px;">0 dB =2.9 mW/g</p>	

**SYSTEM CHECKING SCANS**

**1800 MHz**

**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d084**  
**Program Name: System Performance Check at 1800 MHz**

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.35$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

**DASY4 Configuration:**

- Probe: ES3DV3 - SN3128; ConvF(6.15, 6.5, 6.27); Calibrated: 6/22/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 - SN720; Calibrated: 1/19/2011
- Phantom: SAM 1559; Type: SAM; Serial: 1559
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

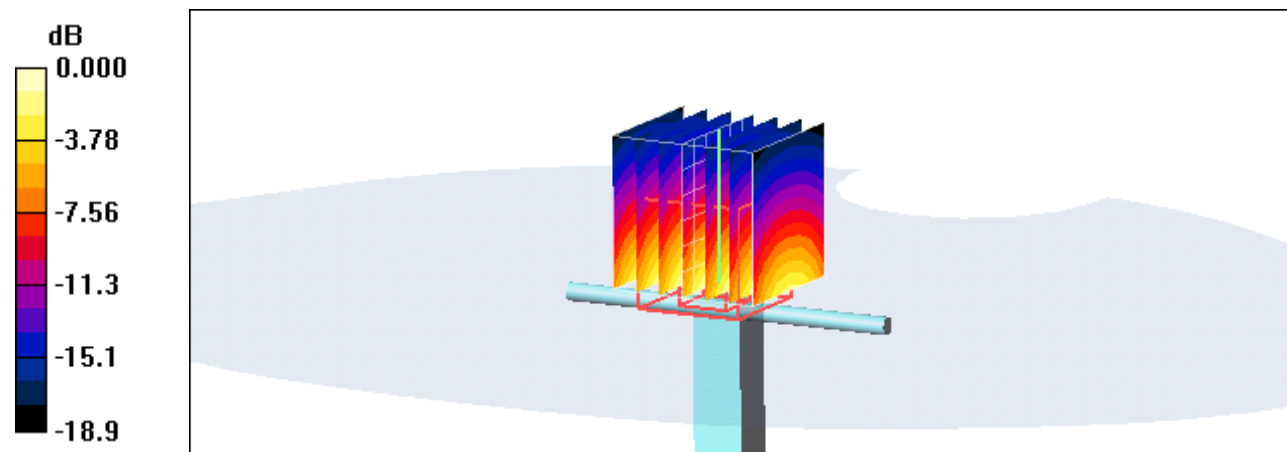
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.1 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 9.71 mW/g; SAR(10 g) = 5.08 mW/g

Maximum value of SAR (measured) = 10.9 mW/g



0 dB = 10.9 mW/g

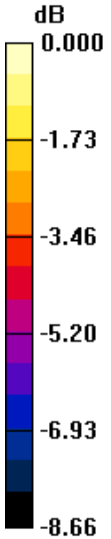
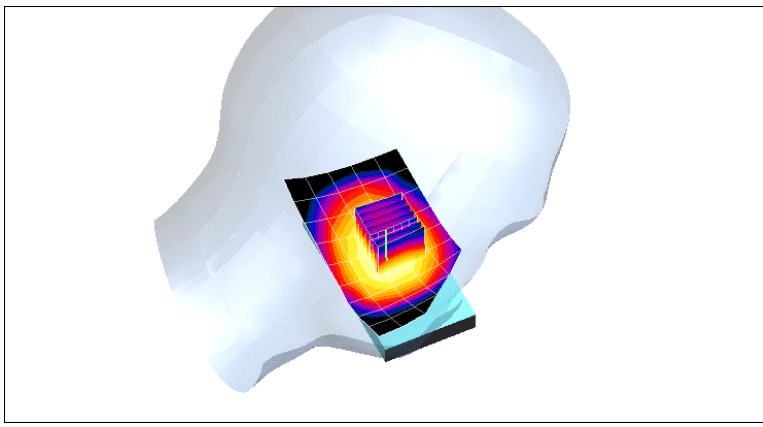
**APPENDIX B: MEASUREMENT SCANS**

**GSM (850MHz/Head)**

Left Side	Cheek	824.2 MHz
<p>Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 824.2</math> MHz; <math>\sigma = 0.887</math> mho/m; <math>\epsilon_r = 41.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 21.4 V/m; Power Drift = 0.009 dB            Peak SAR (extrapolated) = 1.04 W/kg  <b>SAR(1 g) = 0.877 mW/g; SAR(10 g) = 0.685 mW/g</b>            Maximum value of SAR (measured) = 0.919 mW/g</p> <div data-bbox="331 1391 1257 1928"> </div> <p style="text-align: center;">0 dB = 0.919 mW/g</p>		

Left Side	Cheek	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 836.4</math> MHz; <math>\sigma = 0.897</math> mho/m; <math>\epsilon_r = 41.6</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:</b>            dx=5mm, dy=5mm, dz=5mm            Reference Value = 21.2 V/m; Power Drift = -0.057 dB            Peak SAR (extrapolated) = 1.05 W/kg  <b>SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.674 mW/g</b>            Maximum value of SAR (measured) = 0.917 mW/g</p> <div data-bbox="331 1303 1254 1848"> </div>		



Left Side	Cheek	848.8 MHz
<p>Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 848.8</math> MHz; <math>\sigma = 0.907</math> mho/m; <math>\epsilon_r = 41.6</math>;  <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 20.8 V/m; Power Drift = -0.035 dB            Peak SAR (extrapolated) = 1.01 W/kg  <b>SAR(1 g) = 0.841 mW/g; SAR(10 g) = 0.650 mW/g</b>            Maximum value of SAR (measured) = 0.880 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -1.73 -3.46 -5.20 -6.93 -8.66</p> </div> <div style="text-align: center;">  <p>0 dB = 0.880mW/g</p> </div> </div>		

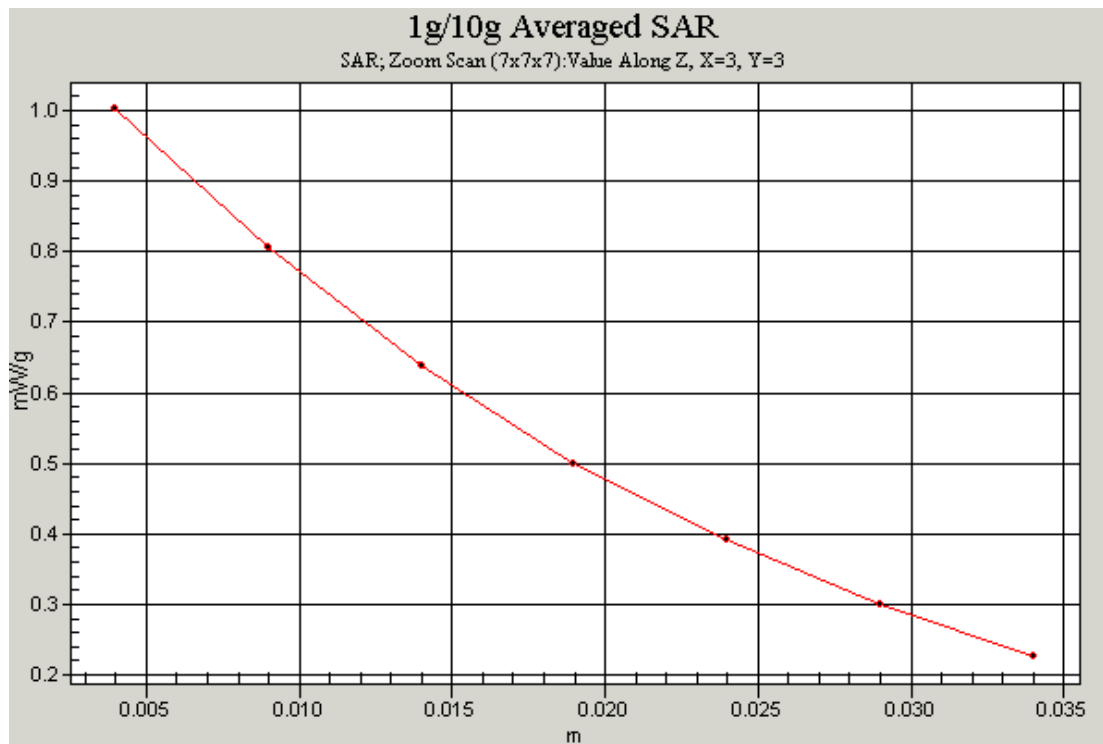
Left Side	Tilt	824.2 MHz
<p>Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 824.2</math> MHz; <math>\sigma = 0.887</math> mho/m; <math>\epsilon_r = 41.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Low/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 23.0 V/m; Power Drift = -0.059 dB            Peak SAR (extrapolated) = 0.796 W/kg  <b>SAR(1 g) = 0.640 mW/g; SAR(10 g) = 0.489 mW/g</b>            Maximum value of SAR (measured) = 0.671 mW/g</p> <div data-bbox="331 1137 1254 1691"> </div>		

Left Side	Tilt	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 836.4</math> MHz; <math>\sigma = 0.897</math> mho/m; <math>\epsilon_r = 41.6</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid:  <math>dx=5</math>mm, <math>dy=5</math>mm, <math>dz=5</math>mm            Reference Value = 23.0 V/m; Power Drift = 0.016 dB            Peak SAR (extrapolated) = 0.796 W/kg  <b>SAR(1 g) = 0.643 mW/g; SAR(10 g) = 0.487 mW/g</b>            Maximum value of SAR (measured) = 0.680 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000 -1.67 -3.34 -5.01 -6.68 -8.35</p> </div> <div style="text-align: center;"> </div> </div> <p style="text-align: center; margin-top: 10px;">0 dB = 0.680mW/g</p>		

Left Side	Tilt	848.8 MHz
<p>Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 848.8</math> MHz; <math>\sigma = 0.907</math> mho/m; <math>\epsilon_r = 41.6</math>;  <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 22.5 V/m; Power Drift = -0.074 dB            Peak SAR (extrapolated) = 0.775 W/kg  <b>SAR(1 g) = 0.620 mW/g; SAR(10 g) = 0.467 mW/g</b>            Maximum value of SAR (measured) = 0.652 mW/g</p> <div data-bbox="331 1263 1254 1803"> </div>		

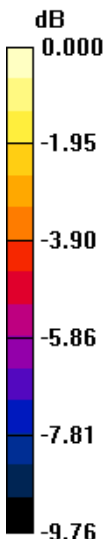
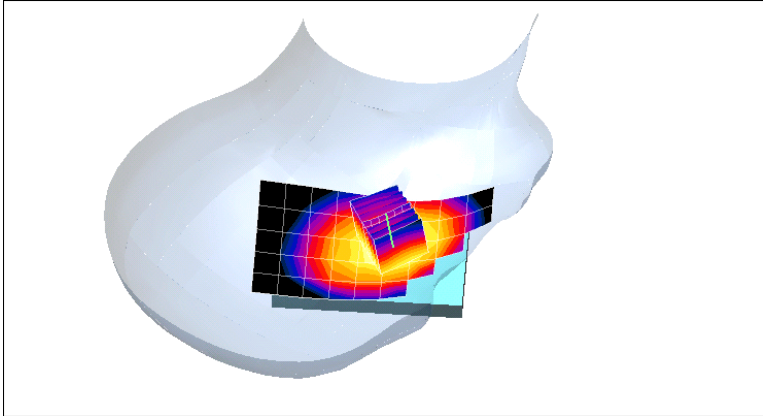
Right Side	Cheek	824.2 MHz
<p>Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 824.2</math> MHz; <math>\sigma = 0.887</math> mho/m; <math>\epsilon_r = 41.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 14.3 V/m; Power Drift = 0.055 dB            Peak SAR (extrapolated) = 1.14 W/kg            SAR(1 g) = 0.935 mW/g; SAR(10 g) = 0.710 mW/g            Maximum value of SAR (measured) = 0.983 mW/g</p> <div data-bbox="331 1240 1254 1834"> </div>		

Right Side	Cheek	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 836.4</math> MHz; <math>\sigma = 0.897</math> mho/m; <math>\epsilon_r = 41.6</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 14.2 V/m; Power Drift = 0.063 dB            Peak SAR (extrapolated) = 1.18 W/kg            SAR(1 g) = 0.949 mW/g; SAR(10 g) = 0.711 mW/g            Maximum value of SAR (measured) = 1.00 mW/g</p> <div data-bbox="331 1240 1254 1832"> </div>		



**Z-Scan at power reference point (850 MHz CH189)**



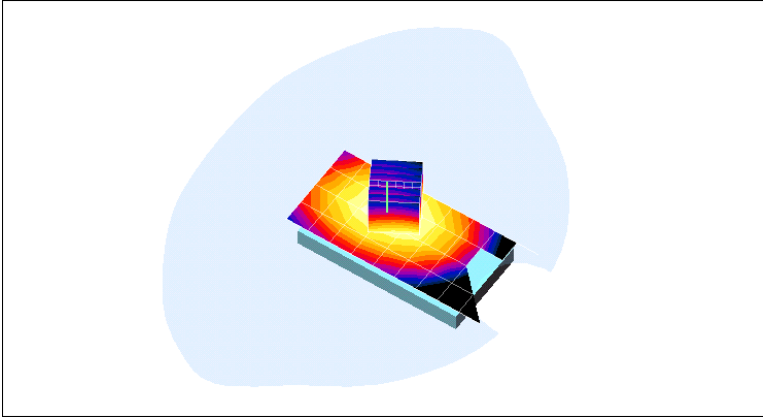
Right Side	Cheek	848.8 MHz
<p>Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 848.8 \text{ MHz}</math>; <math>\sigma = 0.907 \text{ mho/m}</math>; <math>\epsilon_r = 41.6</math>;  <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:  <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 13.7 V/m; Power Drift = 0.112 dB            Peak SAR (extrapolated) = 1.11 W/kg  <b>SAR(1 g) = 0.906 mW/g; SAR(10 g) = 0.674 mW/g</b>            Maximum value of SAR (measured) = 0.961 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -1.95 -3.90 -5.86 -7.81 -9.76</p> </div> <div style="text-align: center;">  </div> </div> <p style="text-align: center;">0 dB = 0.961mW/g</p>		

Right Side	Tilt	836.4MHz
<p>Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 848.8</math> MHz; <math>\sigma = 0.907</math> mho/m; <math>\epsilon_r = 41.6</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:</b>            dx=5mm, dy=5mm, dz=5mm            Reference Value = 19.4 V/m; Power Drift = 0.015 dB            Peak SAR (extrapolated) = 0.749 W/kg  <b>SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.465 mW/g</b>            Maximum value of SAR (measured) = 0.634 mW/g</p> <div data-bbox="331 1243 1252 1825"> </div>		

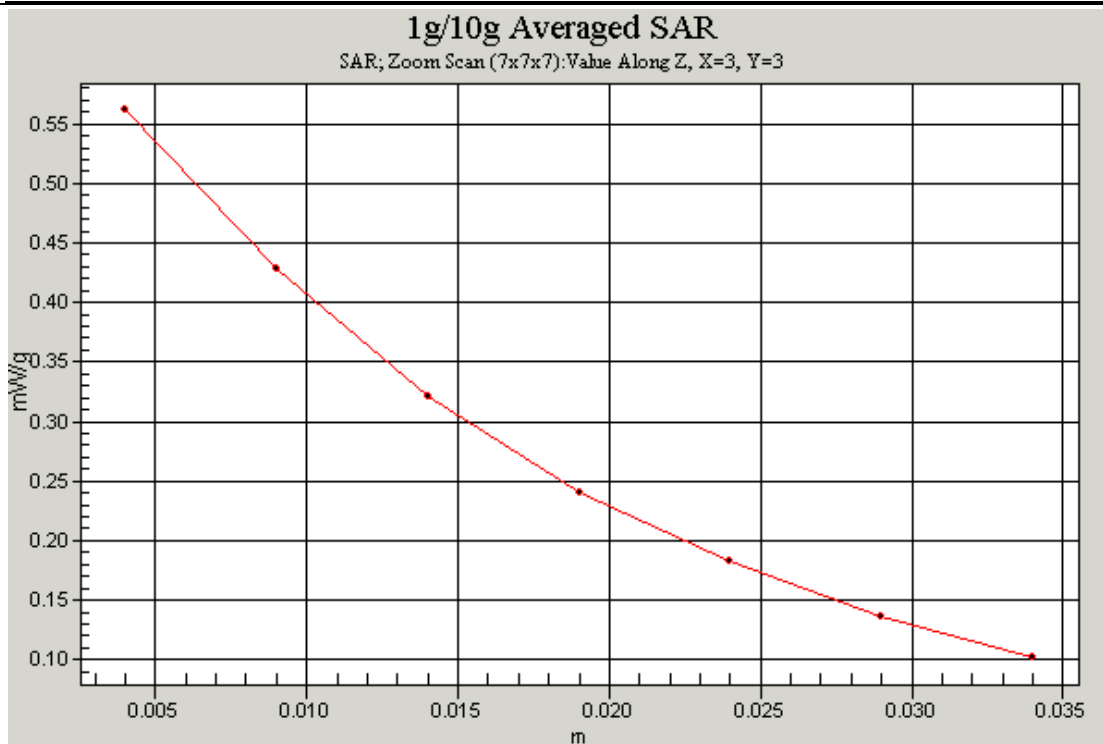
Right Side	Tilt	848.8MHz
<p>Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 848.8</math> MHz; <math>\sigma = 0.907</math> mho/m; <math>\epsilon_r = 41.6</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1560; Type: SAM; Serial: 1560</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul>		
<p><b>Tilt position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.8 V/m; Power Drift = 0.017 dB            Peak SAR (extrapolated) = 0.716 W/kg  <b>SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.440 mW/g</b>            Maximum value of SAR (measured) = 0.615 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000 -1.78 -3.56 -5.33 -7.11 -8.89</p> </div> <div style="text-align: center;"> </div> </div> <p style="text-align: center;">0 dB = 0.615 mW/g</p>		

Right Side	Tilt	824.2MHz
<p>Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 824.2</math> MHz; <math>\sigma = 0.887</math> mho/m; <math>\epsilon_r = 41.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Low/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.9 V/m; Power Drift = 0.007 dB            Peak SAR (extrapolated) = 0.683 W/kg  <b>SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.431 mW/g</b>            Maximum value of SAR (measured) = 0.582 mW/g</p> <div data-bbox="331 1265 1257 1803"> </div> <p>0 dB = 0.582 mW/g</p>		

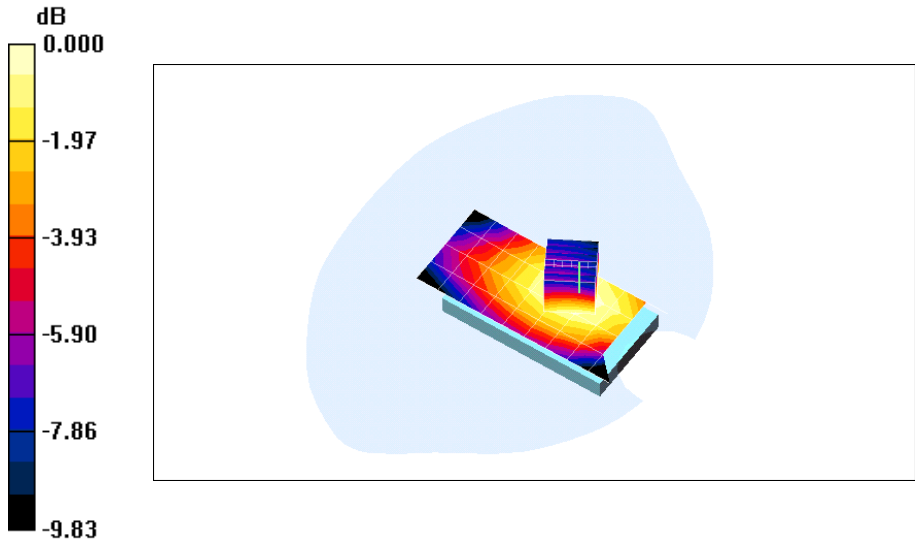
## GSM with headset (850MHz/Flat)

FLAT	Towards ground	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 836.41 \text{ MHz}</math>; <math>\sigma = 0.96 \text{ mho/m}</math>; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Towards ground-middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:</b>  <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 23.1 V/m; Power Drift = -0.022 dB            Peak SAR (extrapolated) = 0.647 W/kg  <b>SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.373 mW/g</b>            Maximum value of SAR (measured) = 0.531 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-1.84</p> <p>-3.67</p> <p>-5.51</p> <p>-7.34</p> <p>-9.18</p> </div> <div style="text-align: center;">  </div> </div> <p>0 dB = 0.531mW/g</p>		

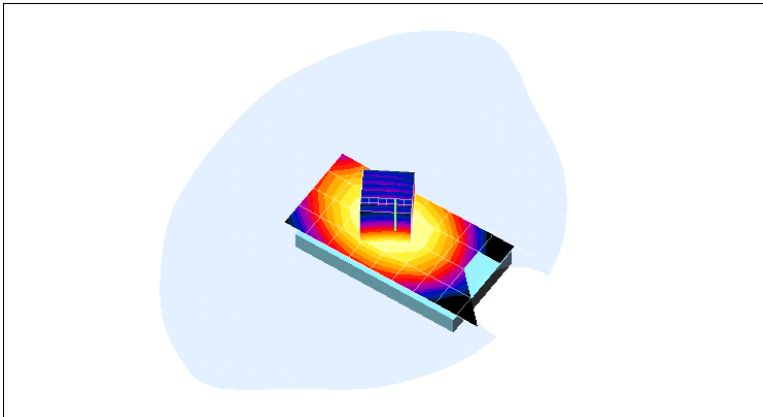
FLAT	Towards ground	824.2 MHz
<p>Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 824.2</math> MHz; <math>\sigma = 0.95</math> mho/m; <math>\epsilon_r = 56</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Towards ground - low/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid:  <math>dx=5mm, dy=5mm, dz=5mm</math>            Reference Value = 21.6 V/m; Power Drift = -0.048 dB            Peak SAR (extrapolated) = 0.687 W/kg  <b>SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.389 mW/g</b>            Maximum value of SAR (measured) = 0.561 mW/g</p> <div data-bbox="279 1164 1197 1758"> </div>		



**Z-Scan at power reference point (850 MHz CH128)**

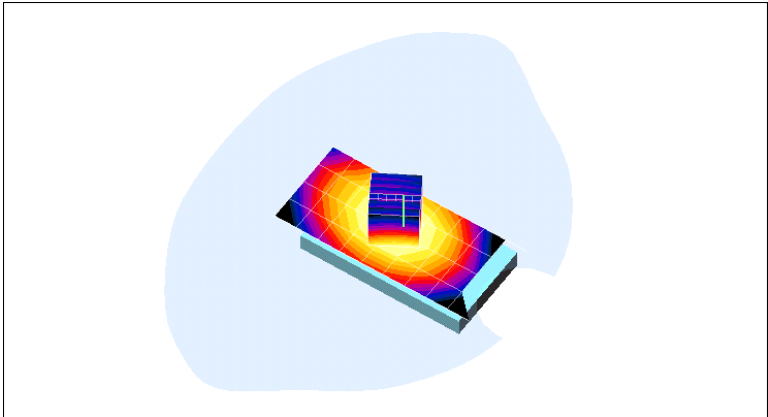
FLAT	Towards ground	848.8MHz
<p>Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 848.8</math> MHz; <math>\sigma = 0.969</math> mho/m; <math>\epsilon_r = 55.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Towards ground -high/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid:  <math>dx=5mm, dy=5mm, dz=5mm</math>            Reference Value = 16.5 V/m; Power Drift = -0.027 dB            Peak SAR (extrapolated) = 0.482 W/kg  <b>SAR(1 g) = 0.361 mW/g; SAR(10 g) = 0.261 mW/g</b>            Maximum value of SAR (measured) = 0.383 mW/g</p>		
 <p>0 dB = 0.383mW/g</p>		



FLAT	Towards phantom	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 836.41</math> MHz; <math>\sigma = 0.96</math> mho/m; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>		
<p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/19/2011</li> <li>- Phantom: SAM 1560; Type: SAM; Serial: 1560</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul>		
<p><b>Towards phantom-middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid:  <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 20.3 V/m; Power Drift = 0.036 dB            Peak SAR (extrapolated) = 0.493 W/kg  <b>SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.291 mW/g</b>            Maximum value of SAR (measured) = 0.407 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-1.70</p> <p>-3.39</p> <p>-5.09</p> <p>-6.78</p> <p>-8.48</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.407mW/g</p>		

## GSM (850MHz with GPRS/Flat)

FLAT	Towards ground	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 836.41</math> MHz; <math>\sigma = 0.96</math> mho/m; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Towards ground- middle GPRS/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement            grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.4 V/m; Power Drift = 0.013 dB            Peak SAR (extrapolated) = 0.458 W/kg            SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.258 mW/g</p> <div data-bbox="319 1198 1241 1747"> </div> <p>0 dB = 0.373mW/g</p>		

FLAT	Towards phantom	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 836.41 \text{ MHz}</math>; <math>\sigma = 0.96 \text{ mho/m}</math>; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p>		
<p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p>		
<p><b>Towards phantom - middle GPRS/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement</b>            grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 20.1 V/m; Power Drift = 0.030 dB            Peak SAR (extrapolated) = 0.476 W/kg  <b>SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.283 mW/g</b>            Maximum value of SAR (measured) = 0.397 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-1.70</p> <p>-3.39</p> <p>-5.09</p> <p>-6.78</p> <p>-8.48</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0397mW/g</p>		

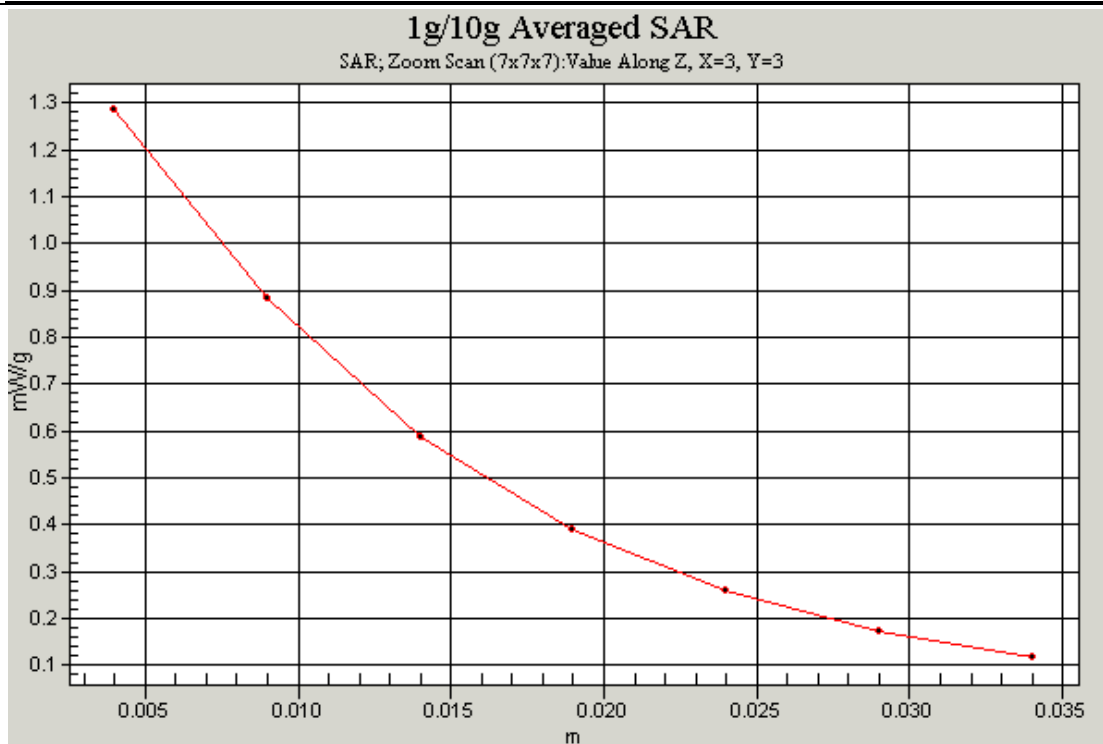
## GSM (850MHz with EGPRS/Flat)

FLAT	Towards ground	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 836.41</math> MHz; <math>\sigma = 0.96</math> mho/m; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>towards ground-mid-EDGE/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 8.70 V/m; Power Drift = 0.036 dB            Peak SAR (extrapolated) = 0.136 W/kg            SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.075 mW/g            Maximum value of SAR (measured) = 0.109 mW/g</p> <div data-bbox="255 1232 1181 1792"> </div> <p>0 dB = 0.109mW/g</p>		

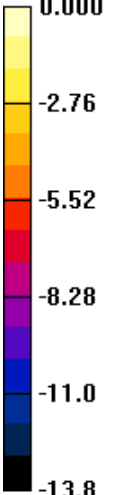
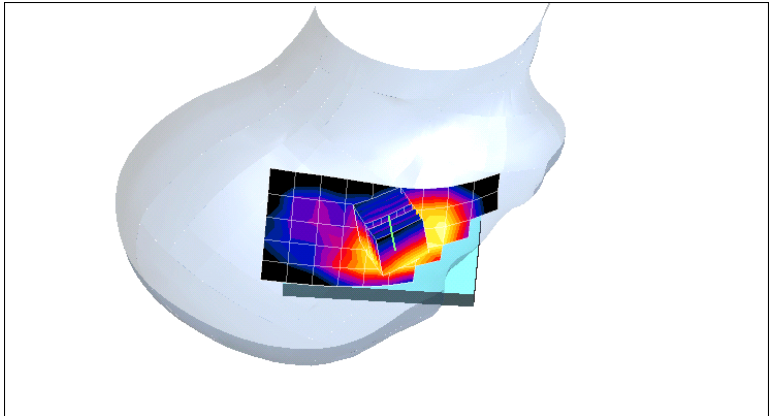
FLAT	Towards phantom	836.4 MHz
<p>Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 836.41 \text{ MHz}</math>; <math>\sigma = 0.96 \text{ mho/m}</math>; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Towards phantom -Mid EDGE/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid:  <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 8.85 V/m; Power Drift = -0.058 dB            Peak SAR (extrapolated) = 0.119 W/kg  <b>SAR(1 g) = 0.0918 mW/g; SAR(10 g) = 0.068 mW/g</b>            Maximum value of SAR (measured) = 0.097 mW/g</p> <div data-bbox="255 1232 1181 1792"> </div> <p>0 dB = 0.097mW/g</p>		

## GSM (1900MHz/Head)

Right Side	Cheek	1850.2 MHz
<p>Communication System: PCS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 1850.2</math> MHz; <math>\sigma = 1.41</math> mho/m; <math>\epsilon_r = 39.2</math>;  <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,            dy=5mm, dz=5mm            Reference Value = 9.90 V/m; Power Drift = -0.023 dB            Peak SAR (extrapolated) = 1.71 W/kg            SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.745 mW/g            Maximum value of SAR (measured) = 1.28 mW/g</p> <div data-bbox="316 1294 1246 1892"> <p>0 dB = 1.28mW/g</p> </div>		



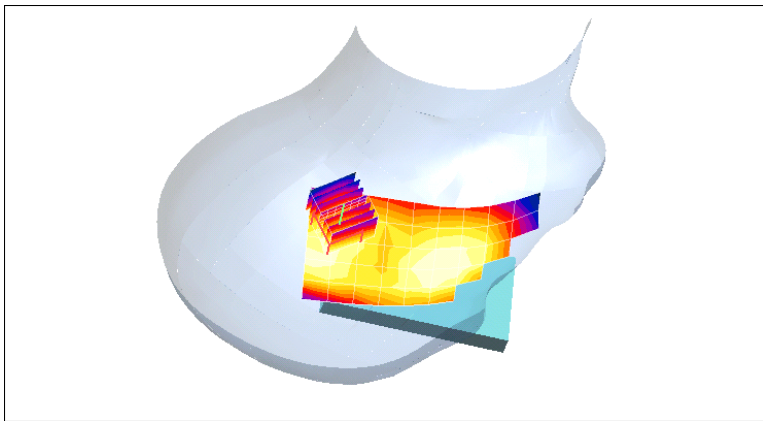
**Z-Scan at power reference point (1900 MHz CH512)**

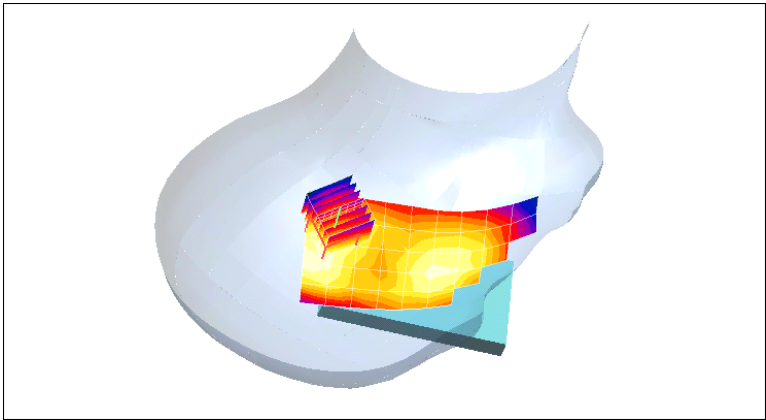
Right Side	Cheek	1880.0 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.44</math> mho/m; <math>\epsilon_r = 39</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p>		
<p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul>		
<p>Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 9.91 V/m; Power Drift = -0.031 dB            Peak SAR (extrapolated) = 1.63 W/kg  <b>SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.693 mW/g</b>            Maximum value of SAR (measured) = 1.22 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -2.76 -5.52 -8.28 -11.0 -13.8</p> </div> <div style="text-align: center;">  </div> </div> <p style="text-align: center; margin-top: 10px;">0 dB = 1.22mW/g</p>		



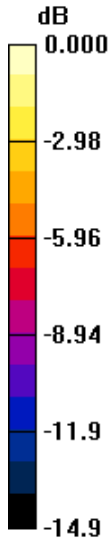
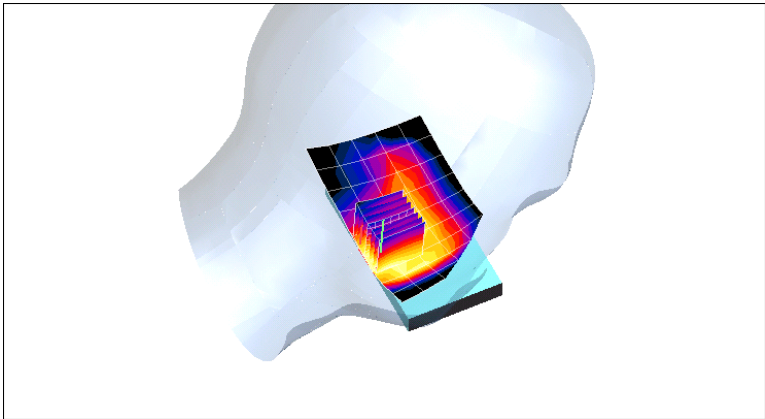
Right Side	Cheek	1909.8 MHz
<p>Communication System: PCS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1910</math> MHz; <math>\sigma = 1.46</math> mho/m; <math>\epsilon_r = 38.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p>		
<p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p>		
<p>Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.1 V/m; Power Drift = -0.012 dB            Peak SAR (extrapolated) = 1.48 W/kg  <b>SAR(1 g) = 1 mW/g; SAR(10 g) = 0.620 mW/g</b>            Maximum value of SAR (measured) = 1.08 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000 -2.82 -5.64 -8.46 -11.3 -14.1</p> </div> <div style="text-align: center;"> </div> </div> <p style="text-align: center; margin-top: 10px;">0 dB = 1.08mW/g</p>		

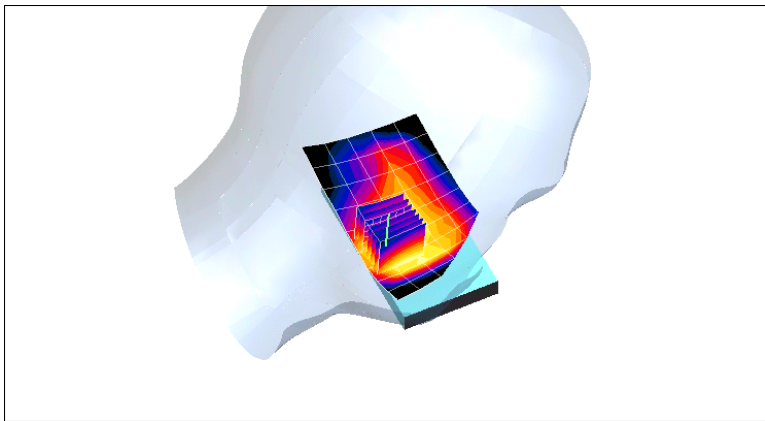
Right Side	Tilt	1850.2 MHz
<p>Communication System: PCS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 1850.2</math> MHz; <math>\sigma = 1.41</math> mho/m; <math>\epsilon_r = 39.2</math>;  <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Low/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm,            dz=5mm            Reference Value = 10.6 V/m; Power Drift = 0.064 dB            Peak SAR (extrapolated) = 0.378 W/kg  <b>SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.149 mW/g</b>            Maximum value of SAR (measured) = 0.271 mW/g</p> <div data-bbox="331 1294 1257 1890"> </div>		

Right Side	Tilt	1909.8 MHz
<p>Communication System: PCS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1910</math> MHz; <math>\sigma = 1.46</math> mho/m; <math>\epsilon_r = 38.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Tilt position - High /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.6 V/m; Power Drift = -0.020 dB            Peak SAR (extrapolated) = 0.264 W/kg  <b>SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.124 mW/g</b>            Maximum value of SAR (measured) = 0.201 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-3.28</p> <p>-6.56</p> <p>-9.84</p> <p>-13.1</p> <p>-16.4</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center; margin-top: 10px;">0 dB = 0.201mW/g</p>		

Right Side	Tilt	1880.0 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.44</math> mho/m; <math>\epsilon_r = 39</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p>Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.2 V/m; Power Drift = -0.016 dB            Peak SAR (extrapolated) = 0.264 W/kg  <b>SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.124 mW/g</b>            Maximum value of SAR (measured) = 0.199 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-3.16</p> <p>-6.32</p> <p>-9.48</p> <p>-12.6</p> <p>-15.8</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.199mW/g</p>		

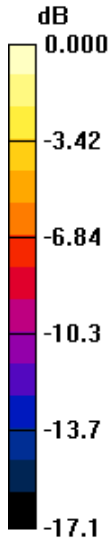
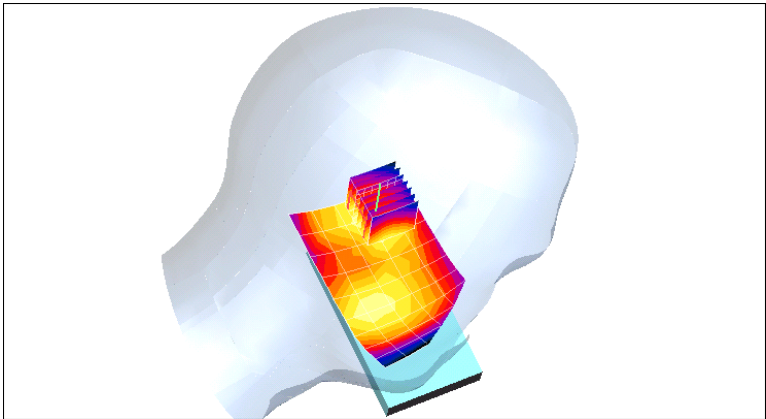
Left Side	Cheek	1850.2 MHz
<p>Communication System: PCS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 1850.2</math> MHz; <math>\sigma = 1.41</math> mho/m; <math>\epsilon_r = 39.2</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:</b>            dx=5mm, dy=5mm, dz=5mm            Reference Value = 13.0 V/m; Power Drift = -0.057 dB            Peak SAR (extrapolated) = 1.82 W/kg  <b>SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.721 mW/g</b>            Maximum value of SAR (measured) = 1.27 mW/g</p> <div data-bbox="331 1265 1257 1803"> </div> <p style="text-align: center;">0 dB = 1.27 mW/g</p>		

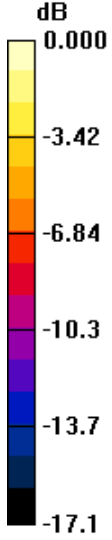
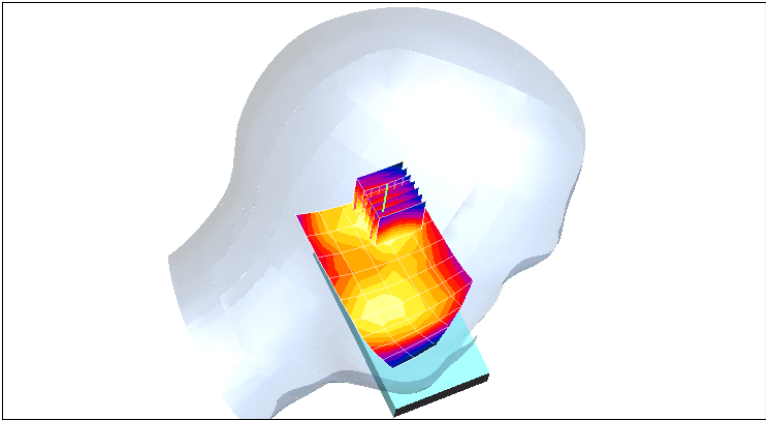
Left Side	Cheek	1880.0 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.44</math> mho/m; <math>\epsilon_r = 39</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p><b>Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid:  <math>dx=5</math>mm, <math>dy=5</math>mm, <math>dz=5</math>mm            Reference Value = 11.3 V/m; Power Drift = 0.005 dB            Peak SAR (extrapolated) = 1.76 W/kg  <b>SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.682 mW/g</b>            Maximum value of SAR (measured) = 1.21 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 1.21 mW/g</p>		

Left Side	Cheek	1909.8 MHz
<p>Communication System: PCS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1910</math> MHz; <math>\sigma = 1.46</math> mho/m; <math>\epsilon_r = 38.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p>Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 11.5 V/m; Power Drift = -0.074 dB            Peak SAR (extrapolated) = 1.61 W/kg  <b>SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.604 mW/g</b>            Maximum value of SAR (measured) = 1.08 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-3.02</p> <p>-6.04</p> <p>-9.06</p> <p>-12.1</p> <p>-15.1</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 1.08mW/g</p>		

Left Side	Tilt	1850.2 MHz
<p>Communication System: PCS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 1850.2</math> MHz; <math>\sigma = 1.41</math> mho/m; <math>\epsilon_r = 39.2</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Low/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 13.0 V/m; Power Drift = -0.013 dB            Peak SAR (extrapolated) = 0.468 W/kg  <b>SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.193 mW/g</b>            Maximum value of SAR (measured) = 0.343 mW/g</p> <div style="display: flex; align-items: center;"> <div data-bbox="331 1265 443 1803" style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-3.24</p> <p>-6.48</p> <p>-9.72</p> <p>-13.0</p> <p>-16.2</p> </div> <div data-bbox="488 1326 1257 1742"> </div> </div> <p style="text-align: center; margin-top: 10px;">0 dB = 0.343 mW/g</p>		

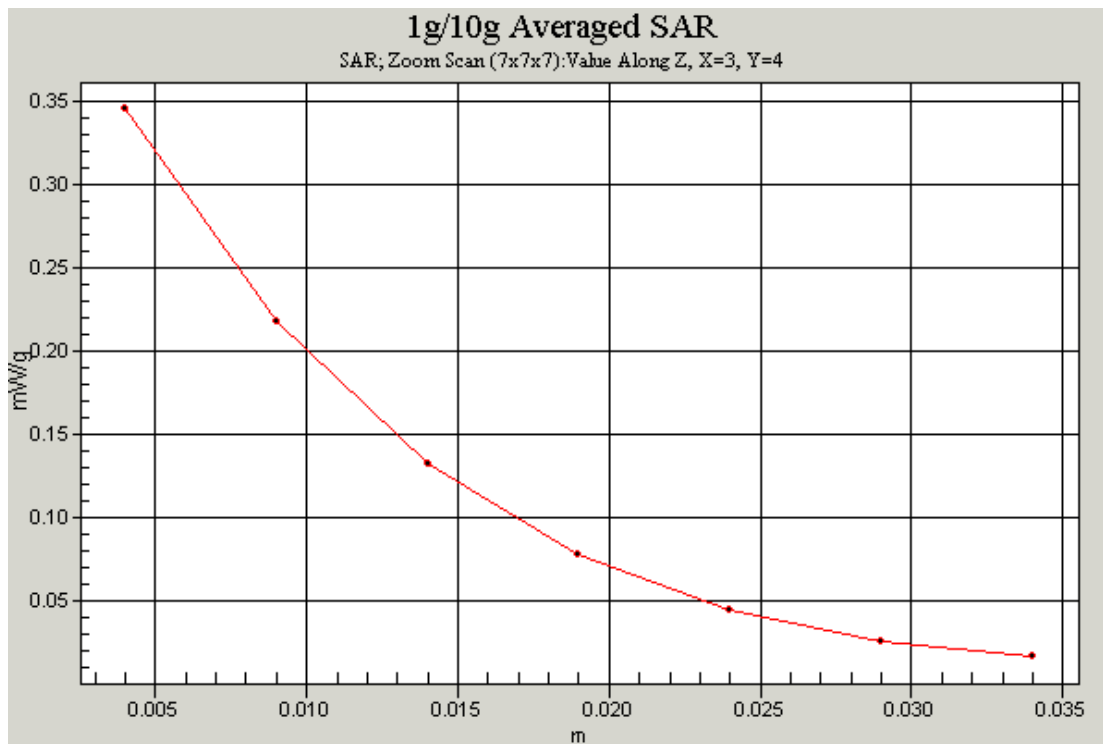


Left Side	Tilt	1880.0 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.44</math> mho/m; <math>\epsilon_r = 39</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p><b>Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid:  <math>dx=5</math>mm, <math>dy=5</math>mm, <math>dz=5</math>mm            Reference Value = 12.2 V/m; Power Drift = -0.038 dB            Peak SAR (extrapolated) = 0.440 W/kg  <b>SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.175 mW/g</b>            Maximum value of SAR (measured) = 0.316 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -3.42 -6.84 -10.3 -13.7 -17.1</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.316 mW/g</p>		

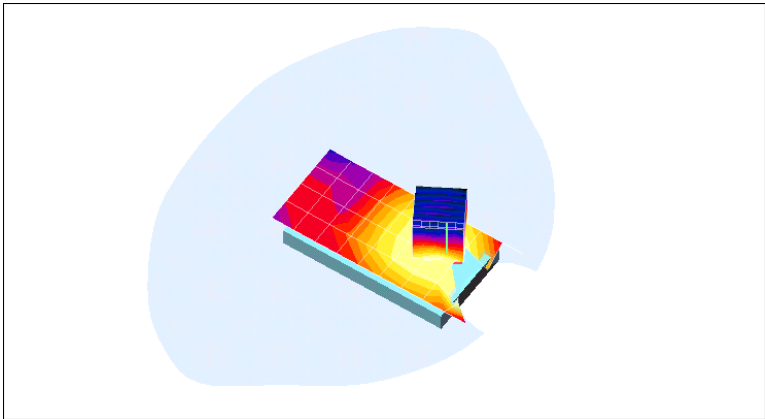
Left Side	Tilt	1909.8 MHz
<p>Communication System: PCS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1910</math> MHz; <math>\sigma = 1.46</math> mho/m; <math>\epsilon_r = 38.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p><b>Tilt position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 11.6 V/m; Power Drift = -0.013 dB            Peak SAR (extrapolated) = 0.374 W/kg  <b>SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.150 mW/g</b>            Maximum value of SAR (measured) = 0.268 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -3.42 -6.84 -10.3 -13.7 -17.1</p> </div> <div style="text-align: center;">  <p>0 dB = 0.268mW/g</p> </div> </div>		

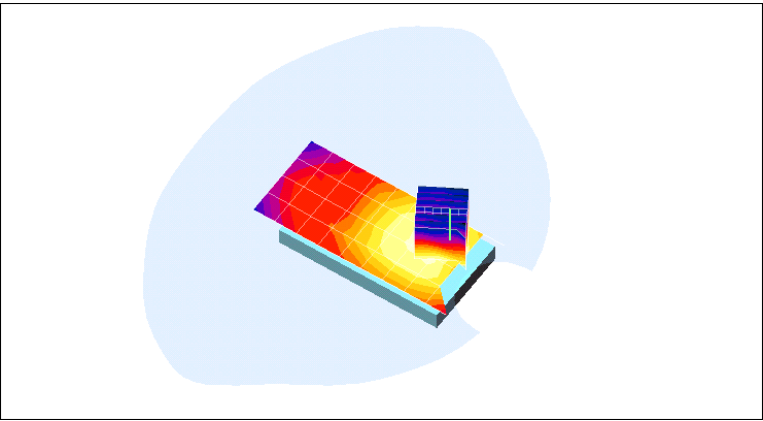
## GSM with headset (1900MHz/Flat)

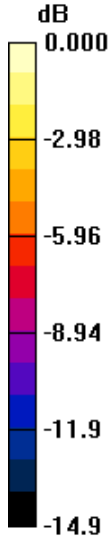
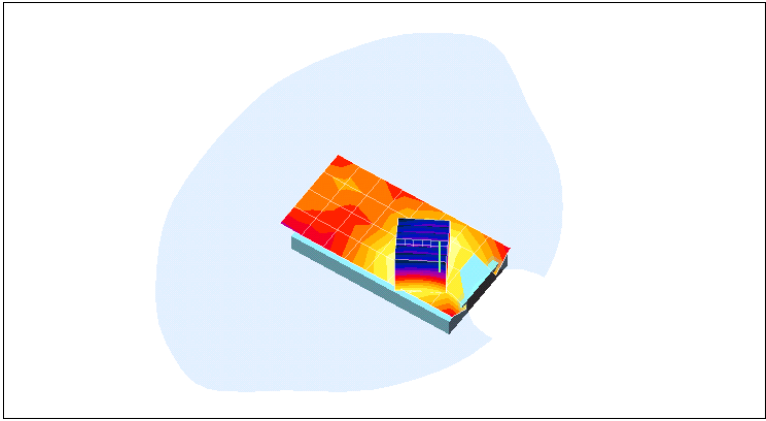
FLAT	Towards ground	1850.2 MHz
<p>Communication System: PCS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3            Medium parameters used (interpolated): <math>f = 1850.2</math> MHz; <math>\sigma = 1.53</math> mho/m; <math>\epsilon_r = 53.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Towards ground - low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.82 V/m; Power Drift = -0.089 dB            Peak SAR (extrapolated) = 0.493 W/kg  <b>SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.193 mW/g</b>            Maximum value of SAR (measured) = 0.345 mW/g</p> <div data-bbox="331 1288 1257 1825"> </div> <p>0 dB = 0.345mW/g</p>		



**Z-Scan at power reference point (1900 MHz CH512)**

FLAT	Towards ground	1880 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/19/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p><b>Towards ground-middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid:  <math>dx=5</math>mm, <math>dy=5</math>mm, <math>dz=5</math>mm            Reference Value = 6.83 V/m; Power Drift = 0.044 dB            Peak SAR (extrapolated) = 0.468 W/kg  <b>SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.178 mW/g</b>            Maximum value of SAR (measured) = 0.323 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-2.96</p> <p>-5.92</p> <p>-8.88</p> <p>-11.8</p> <p>-14.8</p> </div> <div style="text-align: center;">  </div> </div> <p>0 dB = 0.323mW/g</p>		

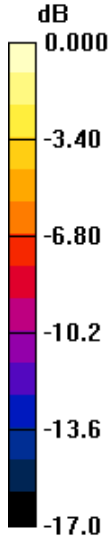
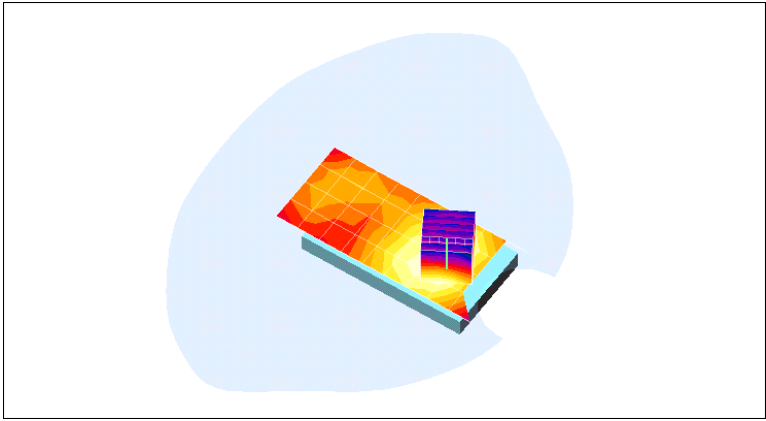
FLAT	Towards ground	1909.8 MHz
<p>Communication System: PCS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1910</math> MHz; <math>\sigma = 1.6</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>		
<p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/19/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul>		
<p><b>Towards ground -high/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:</b></p> <p>dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.94 V/m; Power Drift = -0.011 dB            Peak SAR (extrapolated) = 0.420 W/kg  <b>SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.156 mW/g</b>            Maximum value of SAR (measured) = 0.283 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-3.22</p> <p>-6.44</p> <p>-9.66</p> <p>-12.9</p> <p>-16.1</p> </div> <div style="flex-grow: 1;">  </div> </div>		

FLAT	Towards Phantom	1880 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/19/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p>Towards phantom -middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:  <math>dx=5mm</math>, <math>dy=5mm</math>, <math>dz=5mm</math>            Reference Value = 6.82 V/m; Power Drift = -0.025 dB            Peak SAR (extrapolated) = 0.422 W/kg  <b>SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.174 mW/g</b>            Maximum value of SAR (measured) = 0.302 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -2.98 -5.96 -8.94 -11.9 -14.9</p> </div> <div style="text-align: center;">  <p>0 dB = 0.302mW/g</p> </div> </div>		

## GSM (1900MHz with GPRS/Flat)

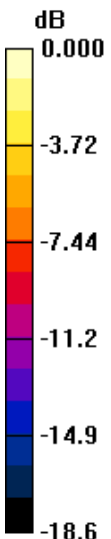
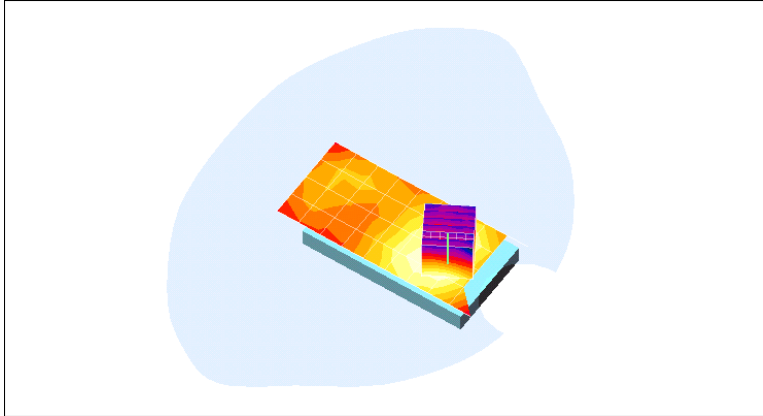
FLAT	Towards ground	1880 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>towards ground- middle GPRS/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement            grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 7.46 V/m; Power Drift = -0.097 dB            Peak SAR (extrapolated) = 0.385 W/kg            SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.152 mW/g            Maximum value of SAR (measured) = 0.274 mW/g</p> <div data-bbox="331 1243 1257 1834"> </div>		



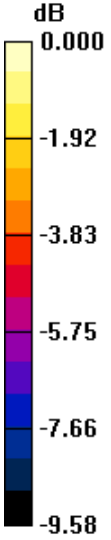
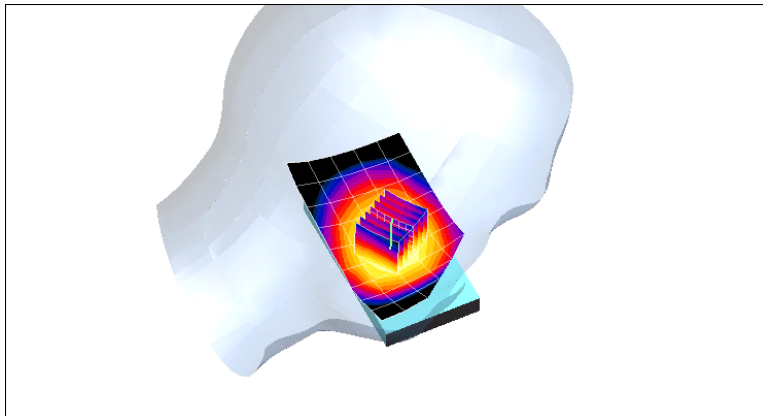
FLAT	Towards phantom	1880 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ mho/m}</math>; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/19/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p>towards phantom- middle GPRS/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement            grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.96 V/m; Power Drift = -0.213 dB            Peak SAR (extrapolated) = 0.452 W/kg  <b>SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.185 mW/g</b>            Maximum value of SAR (measured) = 0.320 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.320mW/g</p>		

## GSM (1900MHz with EGPRS/Flat)

FLAT	Towards ground	1880 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>towards ground-Middle EDGE/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement            grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 4.11 V/m; Power Drift = -0.017 dB            Peak SAR (extrapolated) = 0.164 W/kg            SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.065 mW/g            Maximum value of SAR (measured) = 0.113 mW/g</p> <div data-bbox="331 1243 1257 1832"> </div>		

FLAT	Towards phantom	1880 MHz
<p>Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/19/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p>towards phantom-Middle EDGE/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement            grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 4.51 V/m; Power Drift = -0.221 dB            Peak SAR (extrapolated) = 0.188 W/kg  <b>SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.077 mW/g</b>            Maximum value of SAR (measured) = 0.135 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -3.72 -7.44 -11.2 -14.9 -18.6</p> </div> <div style="text-align: center;">  <p>0 dB = 0.135mW/g</p> </div> </div>		

## WCDMA B5 (Head)

Left Side	Cheek	826.4 MHz
<p>Communication System: UMTS 835; Frequency: 826.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 826.4</math> MHz; <math>\sigma = 0.888</math> mho/m; <math>\epsilon_r = 41.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.8 V/m; Power Drift = -0.029 dB            Peak SAR (extrapolated) = 0.939 W/kg  <b>SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.600 mW/g</b>            Maximum value of SAR (measured) = 0.821 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -1.92 -3.83 -5.75 -7.66 -9.58</p> </div> <div style="text-align: center;">  </div> </div> <p style="text-align: center; margin-top: 10px;">0 dB = 0.821 mW/g</p>		

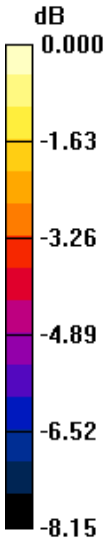
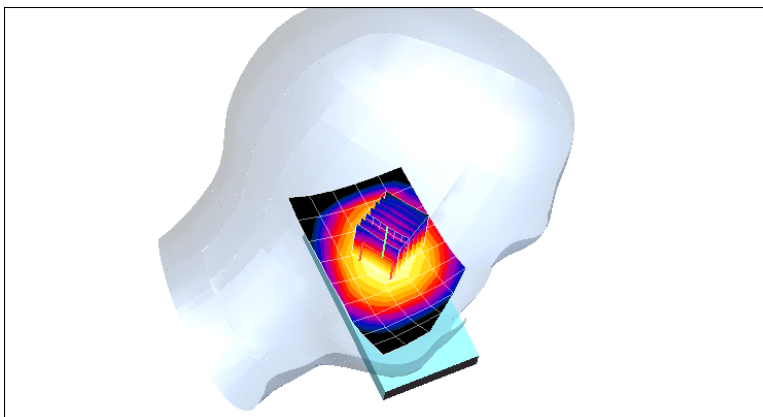
Left Side	Cheek	836.5 MHz
<p>Communication System: UMTS 835; Frequency: 836.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.897</math> mho/m; <math>\epsilon_r = 41.6</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.2 V/m; Power Drift = -0.179 dB            Peak SAR (extrapolated) = 1.14 W/kg  <b>SAR(1 g) = 0.947 mW/g; SAR(10 g) = 0.715 mW/g</b>            Maximum value of SAR (measured) = 0.998 mW/g</p> <div data-bbox="331 1263 1257 1803"> </div>		

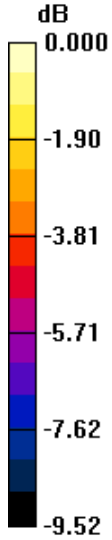
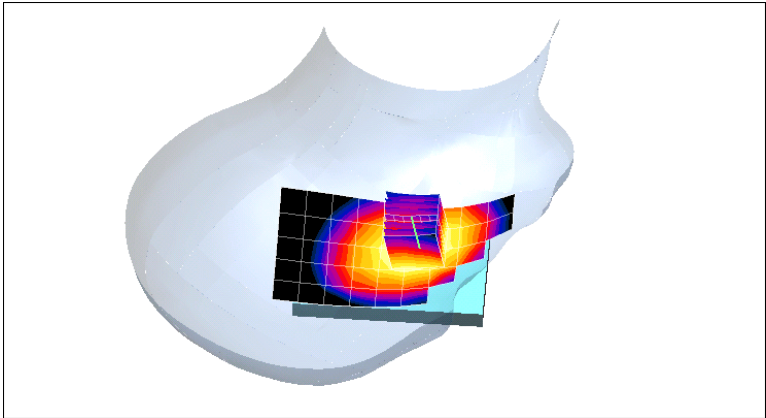
Left Side	Cheek	846.6 MHz
<p>Communication System: UMTS 835; Frequency: 846.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 846.6 \text{ MHz}</math>; <math>\sigma = 0.905 \text{ mho/m}</math>; <math>\epsilon_r = 41.7</math>;  <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Touch position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm,            dy=5mm, dz=5mm            Reference Value = 14.9 V/m; Power Drift = -0.054 dB            Peak SAR (extrapolated) = 1.02 W/kg  <b>SAR(1 g) = 0.832 mW/g; SAR(10 g) = 0.624 mW/g</b>            Maximum value of SAR (measured) = 0.875 mW/g</p> <div data-bbox="331 1265 1257 1803"> </div> <p style="text-align: center;">0 dB = 0.875mW/g</p>		

Left Side	Tilt	826.4 MHz
<p>Communication System: UMTS 835; Frequency: 826.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 826.4</math> MHz; <math>\sigma = 0.888</math> mho/m; <math>\epsilon_r = 41.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Low/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 19.8 V/m; Power Drift = -0.121 dB            Peak SAR (extrapolated) = 0.615 W/kg  <b>SAR(1 g) = 0.499 mW/g; SAR(10 g) = 0.377 mW/g</b>            Maximum value of SAR (measured) = 0.526 mW/g</p> <div data-bbox="300 1263 1225 1803"> </div> <p>0 dB = 0.526mW/g</p>		

Left Side	Tilt	836.5 MHz
<p>Communication System: UMTS 835; Frequency: 836.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.897</math> mho/m; <math>\epsilon_r = 41.6</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Middle/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 19.3 V/m; Power Drift = -0.176 dB            Peak SAR (extrapolated) = 0.664 W/kg  <b>SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.418 mW/g</b>            Maximum value of SAR (measured) = 0.574 mW/g</p> <div data-bbox="331 1263 1257 1803"> </div>		

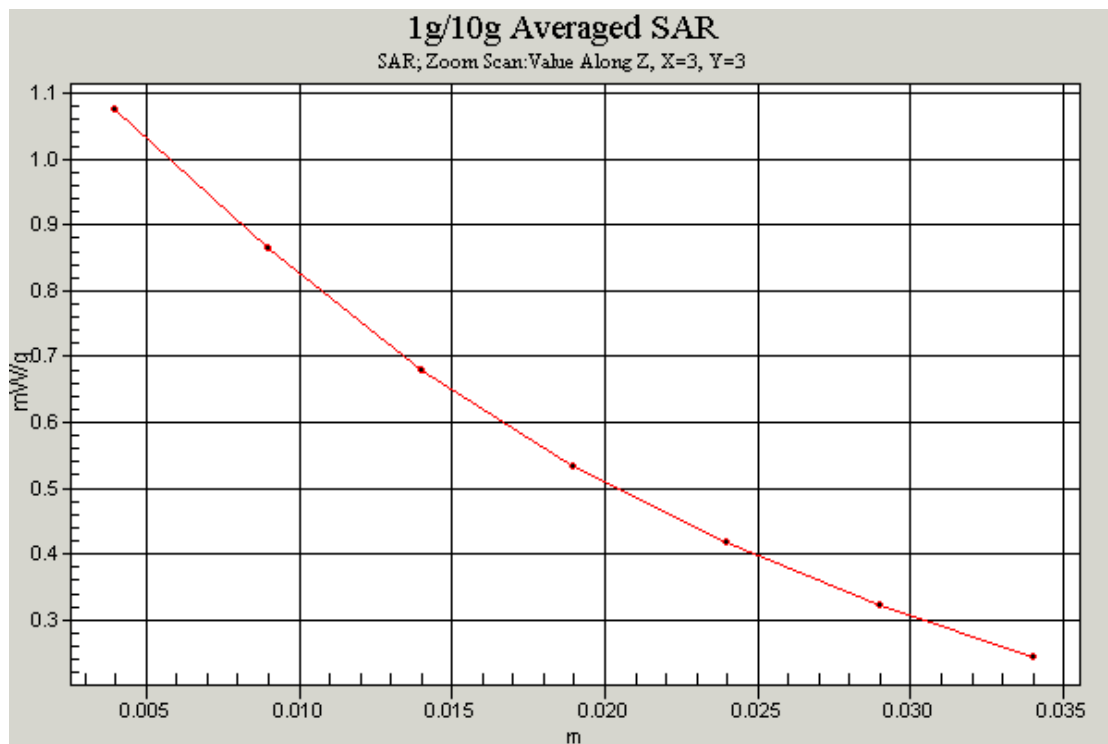


Left Side	Tilt	846.6MHz
<p>Communication System: UMTS 835; Frequency: 846.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 846.6</math> MHz; <math>\sigma = 0.905</math> mho/m; <math>\epsilon_r = 41.7</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p>		
<p><b>Tilt position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.0 V/m; Power Drift = -0.067 dB            Peak SAR (extrapolated) = 0.590 W/kg  <b>SAR(1 g) = 0.481 mW/g; SAR(10 g) = 0.367 mW/g</b>            Maximum value of SAR (measured) = 0.508 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -1.63 -3.26 -4.89 -6.52 -8.15</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center; margin-top: 10px;">0 dB = 0.508mW/g</p>		

Right Side	Cheek	836.5 MHz
<p>Communication System: UMTS 835; Frequency: 836.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5 \text{ MHz}</math>; <math>\sigma = 0.897 \text{ mho/m}</math>; <math>\epsilon_r = 41.6</math>;  <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:  <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 12.1 V/m; Power Drift = -0.125 dB            Peak SAR (extrapolated) = 1.11 W/kg  <b>SAR(1 g) = 0.904 mW/g; SAR(10 g) = 0.683 mW/g</b>            Maximum value of SAR (measured) = 0.958 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -1.90 -3.81 -5.71 -7.62 -9.52</p> </div> <div style="text-align: center;">  </div> </div> <p style="text-align: center; margin-top: 10px;"><b>0 dB = 0.958mW/g</b></p>		

Right Side	Cheek	826.4MHz
<p>Communication System: UMTS 835; Frequency: 826.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 826.4</math> MHz; <math>\sigma = 0.888</math> mho/m; <math>\epsilon_r = 41.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.8 V/m; Power Drift = -0.094 dB            Peak SAR (extrapolated) = 0.993 W/kg            SAR(1 g) = 0.822 mW/g; SAR(10 g) = 0.626 mW/g            Maximum value of SAR (measured) = 0.858 mW/g</p> <div data-bbox="331 1243 1257 1834"> </div>		

Right Side	Cheek	846.6 MHz
<p>Communication System: UMTS 835; Frequency: 846.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 846.6 \text{ MHz}</math>; <math>\sigma = 0.905 \text{ mho/m}</math>; <math>\epsilon_r = 41.7</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.0 V/m; Power Drift = -0.102 dB            Peak SAR (extrapolated) = 1.24 W/kg  <b>SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.760 mW/g</b>            Maximum value of SAR (measured) = 1.07 mW/g</p> <div data-bbox="331 1243 1257 1832"> </div>		



**Z-Scan at power reference point (850 MHz CH4123)**

Right Side	Tilt	826.4 MHz
<p>Communication System: UMTS 835; Frequency: 826.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 826.4</math> MHz; <math>\sigma = 0.888</math> mho/m; <math>\epsilon_r = 41.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Low/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.4 V/m; Power Drift = -0.074 dB            Peak SAR (extrapolated) = 0.619 W/kg  <b>SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.375 mW/g</b>            Maximum value of SAR (measured) = 0.516 mW/g</p> <div data-bbox="331 1243 1257 1832"> </div>		

Right Side	Tilt	836.5 MHz
<p>Communication System: UMTS 835; Frequency: 836.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.897</math> mho/m; <math>\epsilon_r = 41.6</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Middle/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 16.8 V/m; Power Drift = -0.092 dB            Peak SAR (extrapolated) = 0.619 W/kg  <b>SAR(1 g) = 0.504 mW/g; SAR(10 g) = 0.387 mW/g</b>            Maximum value of SAR (measured) = 0.528 mW/g</p> <div data-bbox="331 1265 1257 1803"> </div> <p>0 dB = 0.528mW/g</p>		

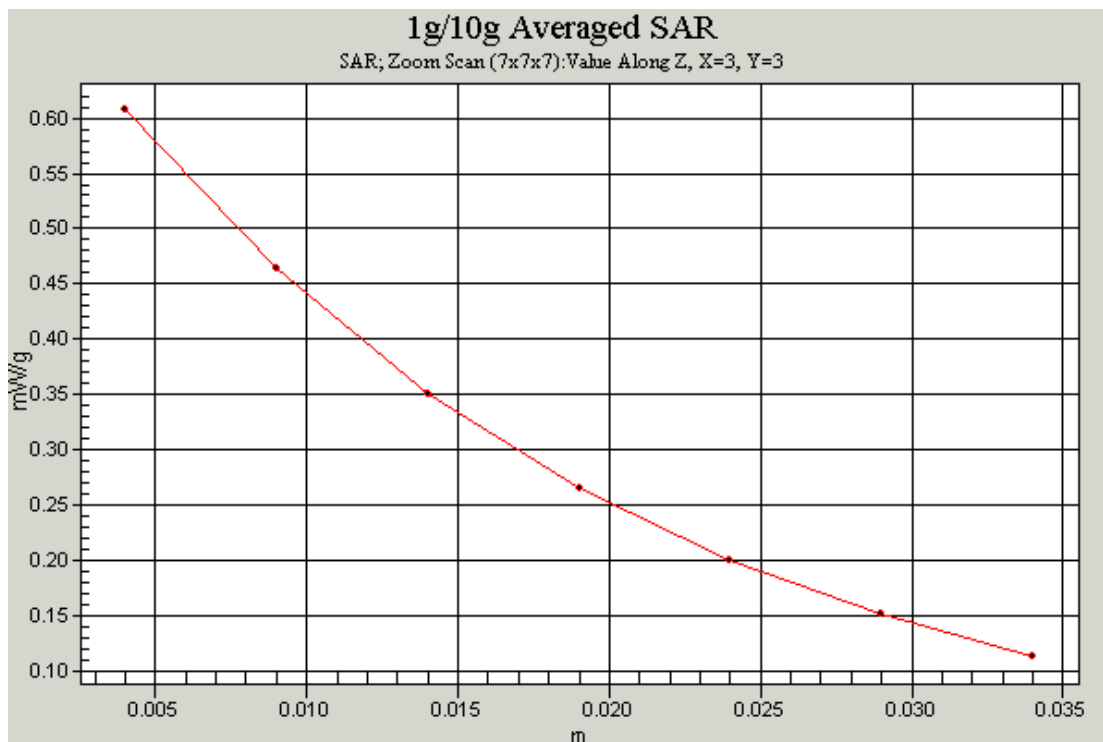
Right Side	Tilt	846.6MHz
<p>Communication System: UMTS 835; Frequency: 846.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 846.6</math> MHz; <math>\sigma = 0.905</math> mho/m; <math>\epsilon_r = 41.7</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(7.88, 8.3, 8.05); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 16.7 V/m; Power Drift = 0.002 dB            Peak SAR (extrapolated) = 0.643 W/kg  <b>SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.402 mW/g</b>            Maximum value of SAR (measured) = 0.553 mW/g</p> <div data-bbox="331 1263 1257 1803"> </div>		



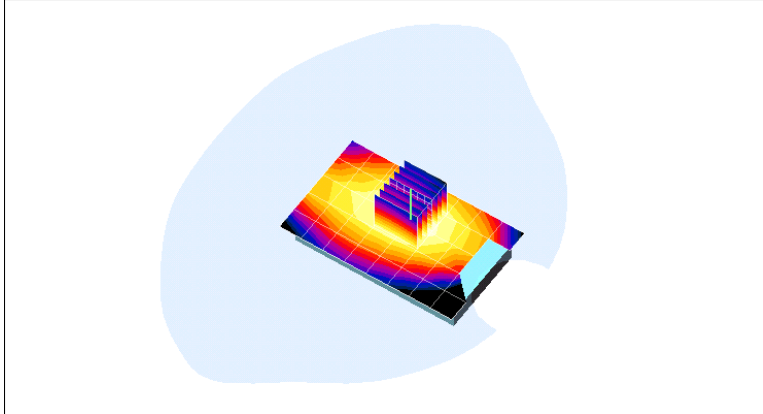
## WCDMA B5 with headset (Flat)

FLAT	Towards ground	826.4 MHz
<p>Communication System: UMTS 835; Frequency: 826.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 826.4</math> MHz; <math>\sigma = 0.952</math> mho/m; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>towards ground-low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 19.2 V/m; Power Drift = 0.054 dB            Peak SAR (extrapolated) = 0.513 W/kg  <b>SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.291 mW/g</b>            Maximum value of SAR (measured) = 0.419 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000 -1.87 -3.75 -5.62 -7.50 -9.37</p> </div> <div style="text-align: center;"> </div> </div> <p style="text-align: center;">0 dB = 0.419mW/g</p>		

FLAT	Towards ground	836.5 MHz
<p>Communication System: UMTS 835; Frequency: 836.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> mho/m; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Towards ground - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:</b>            dx=5mm, dy=5mm, dz=5mm            Reference Value = 23.6 V/m; Power Drift = -0.096 dB            Peak SAR (extrapolated) = 0.737 W/kg  <b>SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.423 mW/g</b>            Maximum value of SAR (measured) = 0.607 mW/g</p> <div data-bbox="279 1249 1200 1848"> </div>		



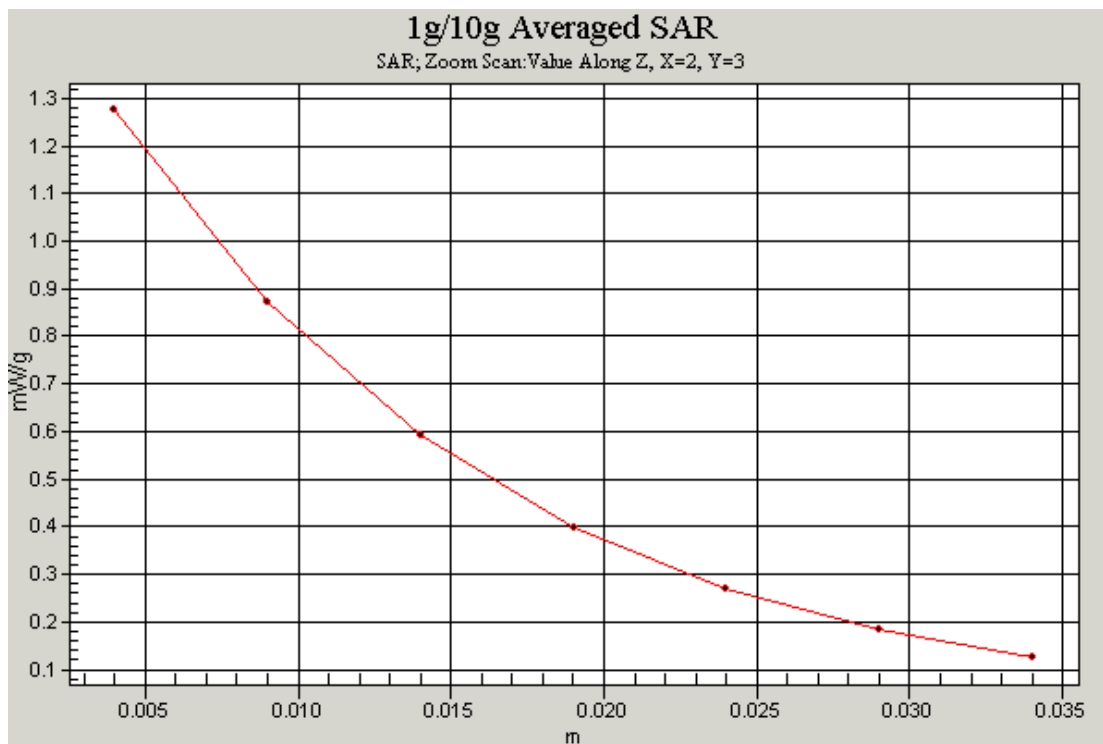
**Z-Scan at power reference point (850 MHz CH4138)**

FLAT	Towards ground	846.6 MHz
<p>Communication System: UMTS 835; Frequency: 846.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 846.6</math> MHz; <math>\sigma = 0.968</math> mho/m; <math>\epsilon_r = 55.8</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>towards ground -high/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.1 V/m; Power Drift = 0.111 dB            Peak SAR (extrapolated) = 0.442 W/kg            SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.250 mW/g            Maximum value of SAR (measured) = 0.359 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-1.91</p> <p>-3.82</p> <p>-5.72</p> <p>-7.63</p> <p>-9.54</p> </div> <div style="text-align: center;">  </div> </div> <p style="text-align: center;">0 dB = 0.359 mW/g</p>		

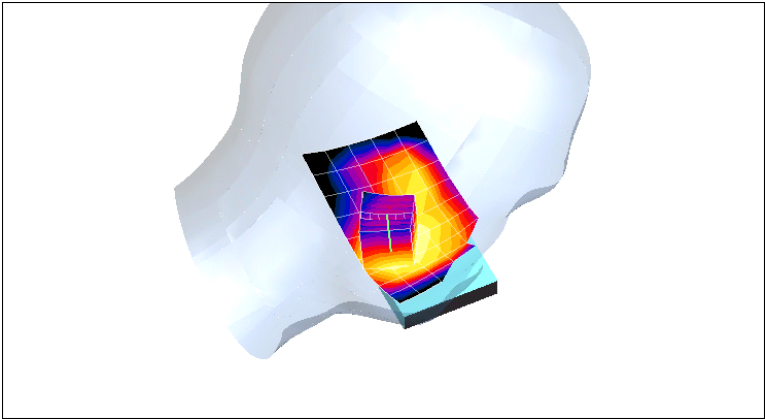
FLAT	Towards phantom	836.5 MHz
<p>Communication System: UMTS 835; Frequency: 836.5 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> mho/m; <math>\epsilon_r = 55.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(6.78, 7.02, 6.8); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/19/2011            - Phantom: SAM 1560; Type: SAM; Serial: 1560            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>towards phantom-mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 22.4 V/m; Power Drift = -0.014 dB            Peak SAR (extrapolated) = 0.642 W/kg  <b>SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.379 mW/g</b>            Maximum value of SAR (measured) = 0.532 mW/g</p> <div data-bbox="279 1243 1204 1825"> </div>		

## WCDMA B2 (Head)

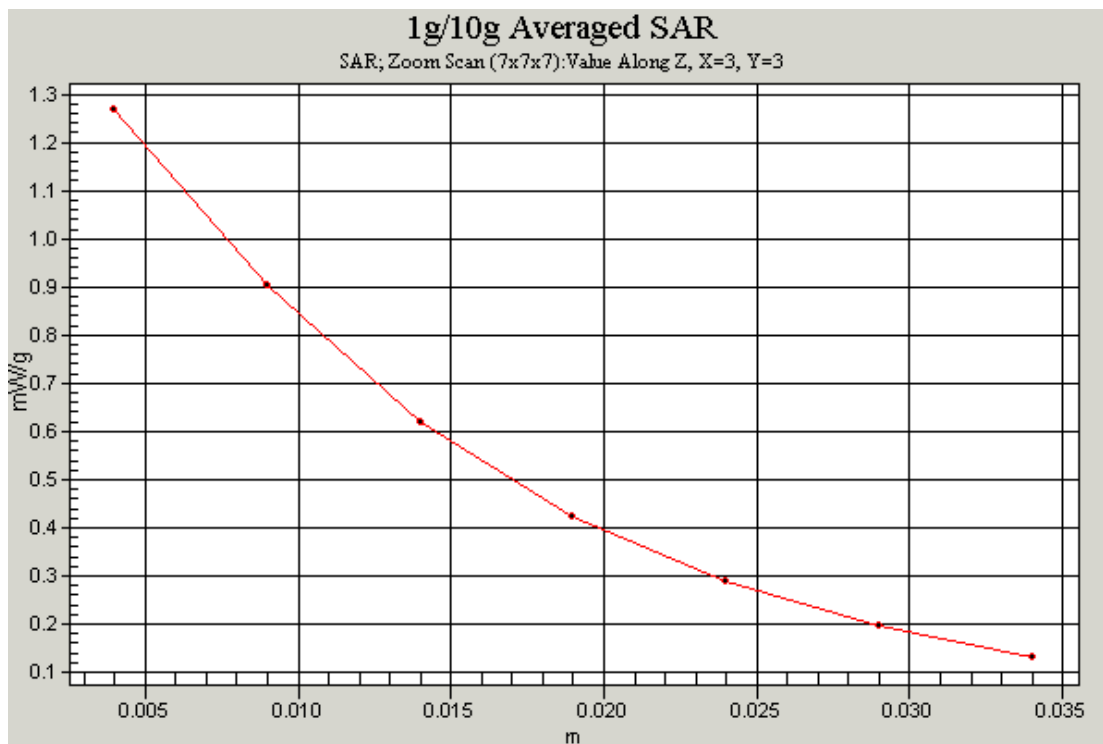
Left Side	Cheek	1852.4 MHz
<p>Communication System: wcdma II; Frequency: 1852.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1852.4</math> MHz; <math>\sigma = 1.41</math> mho/m; <math>\epsilon_r = 39.2</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 14.6 V/m; Power Drift = -0.150 dB            Peak SAR (extrapolated) = 1.72 W/kg  <b>SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.773 mW/g</b>            Maximum value of SAR (measured) = 1.27 mW/g</p> <div data-bbox="327 1310 1252 1848"> </div> <p>0 dB = 1.27mW/g</p>		



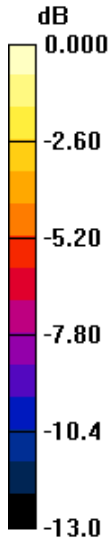
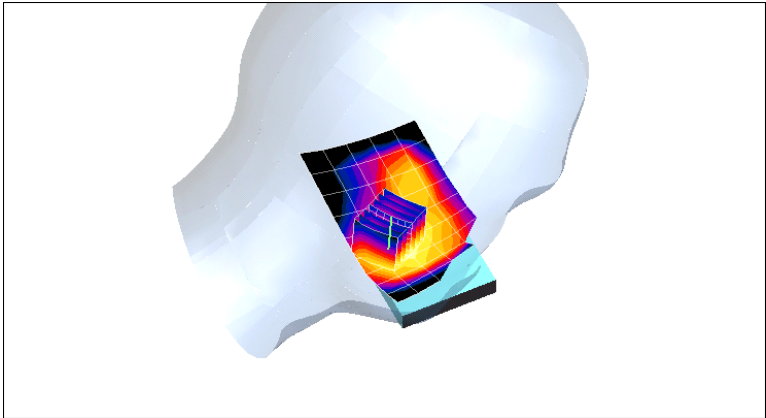
**Z-Scan at power reference point (1900 MHz CH9262)**

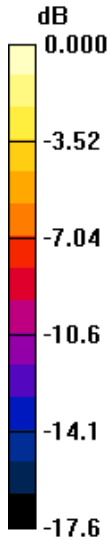
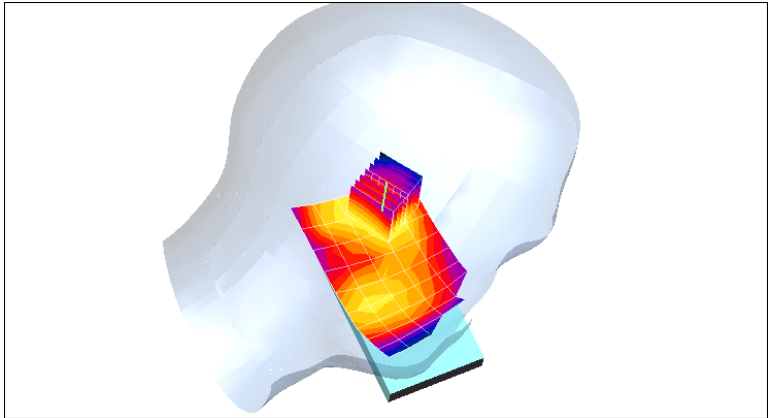
Left Side	Cheek	1880 MHz
<p>Communication System: wcdma II; Frequency: 1880 MHz; Duty Cycle: 1:1                      Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.44</math> mho/m; <math>\epsilon_r = 39</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>                      Phantom section: Left Section</p> <p>DASY4 Configuration:                      - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010                      - Sensor-Surface: 4mm (Mechanical Surface Detection)                      - Electronics: DAE - SN720; Calibrated: 1/26/2011                      - Phantom: SAM 1559; Type: SAM; Serial: 1559                      - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:                      dx=5mm, dy=5mm, dz=5mm                      Reference Value = 13.5 V/m; Power Drift = -0.213 dB                      Peak SAR (extrapolated) = 1.69 W/kg  <b>SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.768 mW/g</b>                      Maximum value of SAR (measured) = 1.27 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-3.08</p> <p>-6.16</p> <p>-9.24</p> <p>-12.3</p> <p>-15.4</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 1.27mW/g</p>		



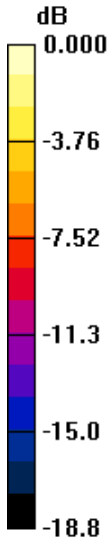
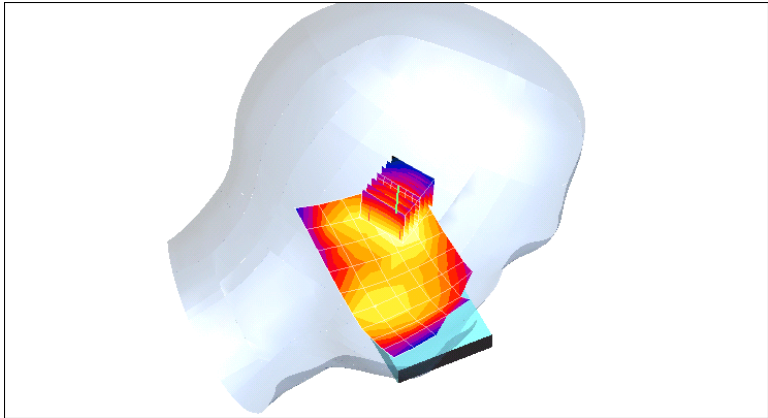


**Z-Scan at power reference point (1900 MHz CH9400)**

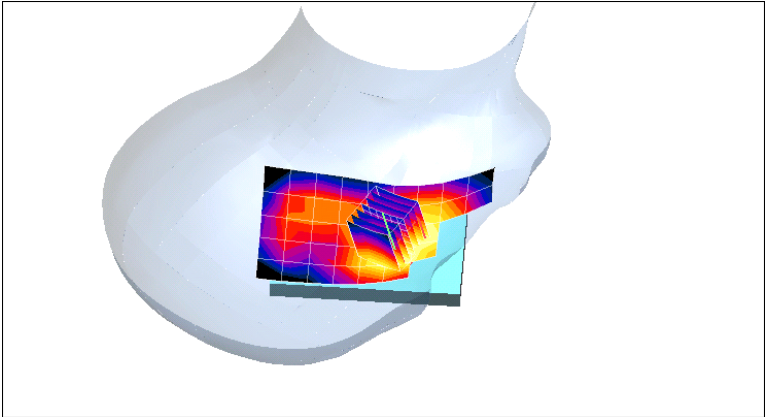
Left Side	Cheek	1907.6 MHz
<p>Communication System: wcdma II; Frequency: 1907.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1907.6</math> MHz; <math>\sigma = 1.46</math> mho/m; <math>\epsilon_r = 38.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p><b>Touch position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 12.0 V/m; Power Drift = -0.092 dB            Peak SAR (extrapolated) = 1.48 W/kg  <b>SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.660 mW/g</b>            Maximum value of SAR (measured) = 1.13 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -2.60 -5.20 -7.80 -10.4 -13.0</p> </div> <div style="text-align: center;">  </div> </div> <p style="text-align: center; margin-top: 10px;">0 dB = 1.13mW/g</p>		

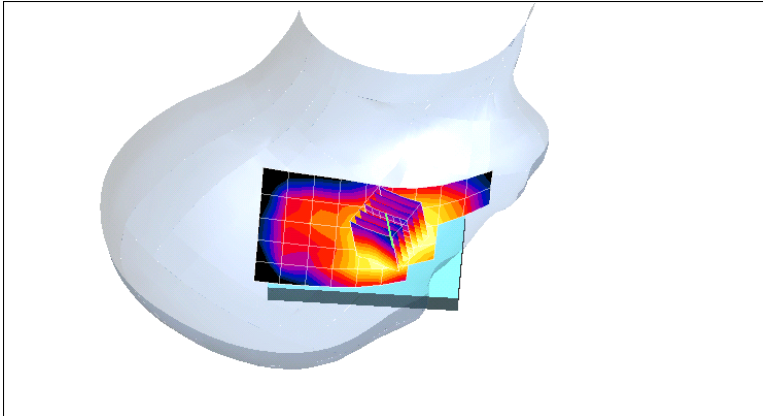
Left Side	Tilt	1852.4 MHz
<p>Communication System: wcdma II; Frequency: 1852.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1852.4</math> MHz; <math>\sigma = 1.41</math> mho/m; <math>\epsilon_r = 39.2</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p><b>Tilt position - Low/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.1 V/m; Power Drift = 0.051 dB            Peak SAR (extrapolated) = 0.766 W/kg  <b>SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.312 mW/g</b>            Maximum value of SAR (measured) = 0.560 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -3.52 -7.04 -10.6 -14.1 -17.6</p> </div> <div style="text-align: center;">  <p>0 dB = 0.560mW/g</p> </div> </div>		

Left Side	Tilt	1880 MHz
<p>Communication System: wcdma II; Frequency: 1880 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.44</math> mho/m; <math>\epsilon_r = 39</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Tilt position - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.0 V/m; Power Drift = 0.062 dB            Peak SAR (extrapolated) = 0.798 W/kg  <b>SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.319 mW/g</b>            Maximum value of SAR (measured) = 0.581 mW/g</p> <div data-bbox="331 1220 1257 1765"> </div> <p>0 dB = 0.581 mW/g</p>		

Left Side	Tilt	1907.6 MHz
<p>Communication System: wcdma II; Frequency: 1907.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1907.6 \text{ MHz}</math>; <math>\sigma = 1.46 \text{ mho/m}</math>; <math>\epsilon_r = 38.9</math>;  <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Left Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 16.1 V/m; Power Drift = -0.045 dB            Peak SAR (extrapolated) = 0.800 W/kg  <b>SAR(1 g) = 0.542 mW/g; SAR(10 g) = 0.333 mW/g</b>            Maximum value of SAR (measured) = 0.593 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -3.76 -7.52 -11.3 -15.0 -18.8</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.593 mW/g</p>		

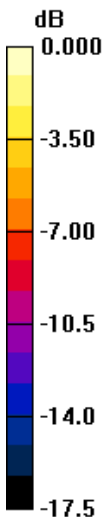
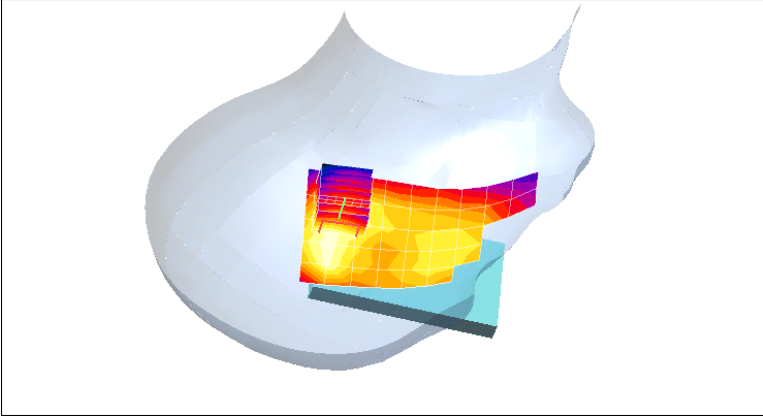
Right Side	Cheek	1852.4MHz
<p>Communication System: wcdma II; Frequency: 1852.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1852.4</math> MHz; <math>\sigma = 1.41</math> mho/m; <math>\epsilon_r = 39.2</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.0 V/m; Power Drift = -0.006 dB            Peak SAR (extrapolated) = 1.64 W/kg  <b>SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.697 mW/g</b>            Maximum value of SAR (measured) = 1.18 mW/g</p> <div data-bbox="331 1167 1257 1704"> </div>		

Right Side	Cheek	1880MHz
<p>Communication System: wcdma II; Frequency: 1880 MHz;Duty Cycle: 1:1            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.44</math> mho/m; <math>\epsilon_r = 39</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - Middle /Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:            dx=5mm, dy=5mm, dz=5mm            Reference Value = 13.9 V/m; Power Drift = -0.206 dB            Peak SAR (extrapolated) = 4.04 W/kg            SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.412 mW/g            Maximum value of SAR (measured) = 1.22 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-10.0</p> <p>-20.0</p> <p>-30.0</p> <p>-40.0</p> <p>-50.0</p> </div>  </div> <p style="text-align: center;">0 dB = 1.22mW/g</p>		

Right Side	Cheek	1907.6 MHz
<p>Communication System: wcdma II; Frequency: 1907.6 MHz;Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1907.6</math> MHz; <math>\sigma = 1.46</math> mho/m; <math>\epsilon_r = 38.9</math>;  <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>Touch position - High /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,            dy=5mm, dz=5mm            Reference Value = 11.5 V/m; Power Drift = -0.084 dB            Peak SAR (extrapolated) = 1.33 W/kg  <b>SAR(1 g) = 0.915 mW/g; SAR(10 g) = 0.598 mW/g</b>            Maximum value of SAR (measured) = 0.977 mW/g</p>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-3.00</p> <p>-6.00</p> <p>-9.00</p> <p>-12.0</p> <p>-15.0</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.977mW/g</p>		

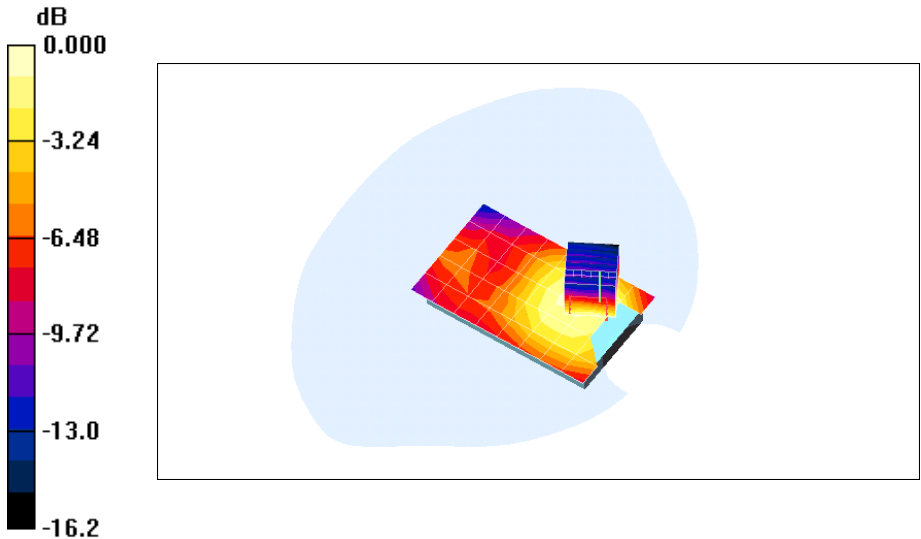


Right Side	Tilt	1852.4MHz
<p>Communication System: wcdma II; Frequency: 1852.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1852.4</math> MHz; <math>\sigma = 1.41</math> mho/m; <math>\epsilon_r = 39.2</math>;  <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Low/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm,            dy=5mm, dz=5mm            Reference Value = 16.9 V/m; Power Drift = 0.006 dB            Peak SAR (extrapolated) = 0.589 W/kg  <b>SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.244 mW/g</b>            Maximum value of SAR (measured) = 0.424 mW/g</p> <div data-bbox="347 1263 1241 1682"> <p>The figure is a 3D surface plot representing the SAR distribution. The vertical axis is a color scale for dB, ranging from 0.000 (yellow) at the top to -14.7 (dark blue) at the bottom. The plot shows a localized area of high SAR (red/yellow) on a grid, indicating the measurement area. The surrounding area is mostly blue, indicating lower SAR values.</p> </div> <p>0 dB = 0.424mW/g</p>		

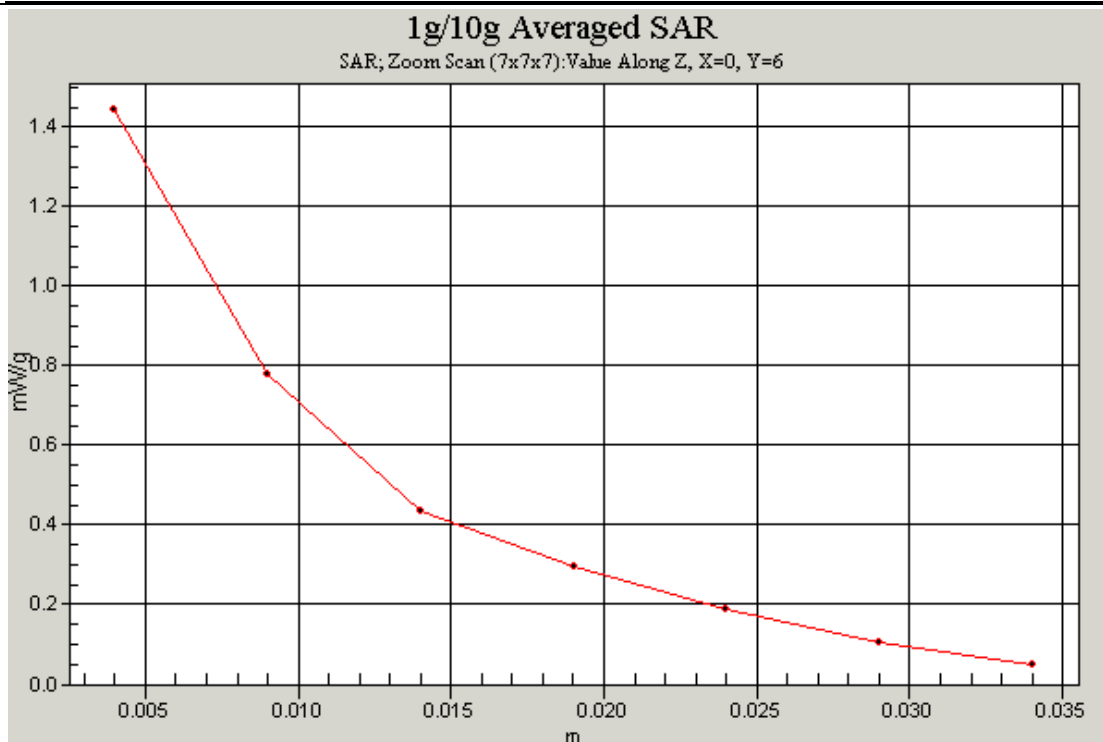
Right Side	Tilt	1880 MHz
<p>Communication System: wcdma II; Frequency: 1880 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.44</math> mho/m; <math>\epsilon_r = 39</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - Middle/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.8 V/m; Power Drift = 0.022 dB            Peak SAR (extrapolated) = 0.503 W/kg  <b>SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.223 mW/g</b>            Maximum value of SAR (measured) = 0.377 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0.000 -3.50 -7.00 -10.5 -14.0 -17.5</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.377mW/g</p>		

Right Side	Tilt	1907.6 MHz
<p>Communication System: wcdma II; Frequency: 1907.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1907.6</math> MHz; <math>\sigma = 1.46</math> mho/m; <math>\epsilon_r = 38.9</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.95, 5.22, 5.06); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Tilt position - High/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 13.9 V/m; Power Drift = 0.028 dB            Peak SAR (extrapolated) = 0.393 W/kg  <b>SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.175 mW/g</b>            Maximum value of SAR (measured) = 0.298 mW/g</p> <div data-bbox="331 1265 1257 1803"> </div>		

## WCDMA B2 with headset (Flat)

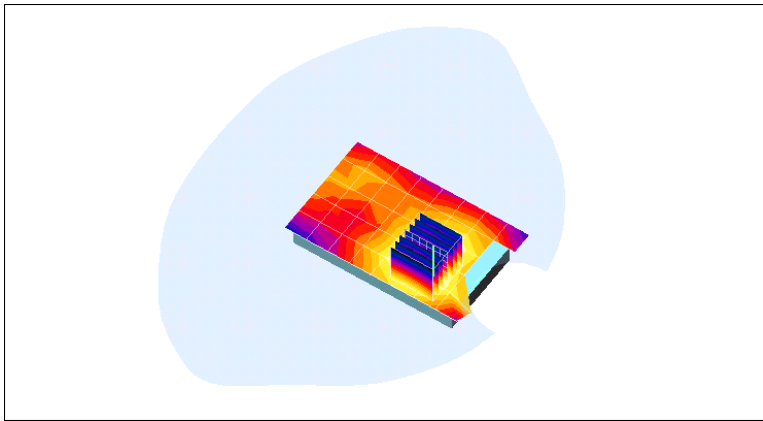
FLAT	Towards ground	1852.4 MHz
<p>Communication System: wcdma II; Frequency: 1852.4 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1852.4 \text{ MHz}</math>; <math>\sigma = 1.54 \text{ mho/m}</math>; <math>\epsilon_r = 53.7</math>;  <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>towards ground-low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 9.00 V/m; Power Drift = -0.007 dB            Peak SAR (extrapolated) = 0.997 W/kg  <b>SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.379 mW/g</b>            Maximum value of SAR (measured) = 0.691 mW/g</p>		
 <p>0 dB = 0.691 mW/g</p>		

FLAT	Towards ground	1880 MHz
<p>Communication System: wcdma II; Frequency: 1880 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p><b>Towards ground - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:</b>            dx=5mm, dy=5mm, dz=5mm            Reference Value = 7.38 V/m; Power Drift = 0.055 dB            Peak SAR (extrapolated) = 2.29 W/kg  <b>SAR(1 g) = 0.664 mW/g; SAR(10 g) = 0.416 mW/g</b>            Maximum value of SAR (measured) = 1.44 mW/g</p> <div data-bbox="284 1205 1206 1792"> </div>		



**Z-Scan at power reference point (1900 MHz CH9400)**

FLAT	Towards ground	1907.6 MHz
<p>Communication System: wcdma II; Frequency: 1907.6 MHz; Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1907.6</math> MHz; <math>\sigma = 1.59</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:            - Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010            - Sensor-Surface: 4mm (Mechanical Surface Detection)            - Electronics: DAE - SN720; Calibrated: 1/26/2011            - Phantom: SAM 1559; Type: SAM; Serial: 1559            - Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</p> <p>towards ground -high/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.9 V/m; Power Drift = -0.165 dB            Peak SAR (extrapolated) = 0.793 W/kg            SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.288 mW/g            Maximum value of SAR (measured) = 0.541 mW/g</p> <div data-bbox="331 1249 1257 1832"> <p>0 dB = 0.541 mW/g</p> </div>		

FLAT	Towards phantom	1880 MHz
<p>Communication System: wcdma II; Frequency: 1880 MHz; Duty Cycle: 1:1            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> mho/m; <math>\epsilon_r = 53.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY4 Configuration:</p> <ul style="list-style-type: none"> <li>- Probe: ES3DV3 - SN3128; ConvF(4.53, 4.79, 4.63); Calibrated: 6/22/2010</li> <li>- Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>- Electronics: DAE - SN720; Calibrated: 1/26/2011</li> <li>- Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186</li> </ul> <p><b>towards plantom-mid/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 8.68 V/m; Power Drift = 0.135 dB            Peak SAR (extrapolated) = 0.865 W/kg  <b>SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.345 mW/g</b>            Maximum value of SAR (measured) = 0.609 mW/g</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0.000</p> <p>-2.96</p> <p>-5.92</p> <p>-8.88</p> <p>-11.8</p> <p>-14.8</p> </div>  </div> <p style="text-align: center;">0 dB = 0.609mW/g</p>		