

# TEST REPORT

**REPORT NUMBER: I09GE4359-FCC-SAR-2**

**ON**

**Type of Equipment:** HSUPA USB MODEM  
**Type of Designation:** K3765-Z  
**Manufacturer:** ZTE CORPORATION

**ACCORDING TO**

**FCC Part 2.1093: Radiofrequency radiation exposure evaluation:  
portable devices, e-CFR March 23, 2006  
FCC OET Bulletin 65 Supplement C (Edition 01-01): Additional  
Information for Evaluating Compliance of Mobile and Portable  
Devices with FCC Limits for Human Exposure to Radiofrequency  
Emissions**

**China Telecommunication Technology Labs.**

*Month date, year*  
May 19, 2009

**Signature**



He Guili  
**Director**

**FCC ID:** Q78-K3765-Z  
**Report Date:** 2009-05-18

**Test Firm Name:** China Telecommunication Technology Labs  
**Registration Number:** 840587

### Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 2.1093. The sample tested was found to comply with the requirements defined in the applied rules.

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## 1. General Information

### 1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with the requirements of FCC CFR 47 Part 2.1093.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviations from, additions to, or exclusions from the test specifications have been made. See Annex D.

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### 1.3 Testing Laboratory information

#### 1.3.1 Location

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#### 1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity  
Assessment (CNAS)  
Registration number: CNAS Registration No. CNAS L0570  
Standard: ISO/IEC 17025:2005

#### 1.3.3 Test location, where different from section 1.3.1

Name: -----  
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## 1.4 Details of applicant or manufacturer

### 1.4.1 Applicant

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Name: --  
Address: --

## 2 Test Item

### 2.1 General Information

Manufacturer: ZTE CORPORATION  
 Name: HSUPA USB MODEM  
 Model Number: K3765-Z  
 IMEI Number: 353679030001204  
 Production Status: Product  
 Receipt date of test item: 2009-02-13

### 2.2 Outline of EUT

EUT is a USB modem supporting GPRS/EGPRS 850 and 1900 band. It's support multislot 10 for GPRS and multislot 12 for EGPRS.

### 2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

### 2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	handset	ZTE CORPORATION	K3765-Z		None
B	adapter	--	--	--	None
C	battery	--	--	--	None
D	Earphone	--	--	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	0.3m	No	1	None

### 2.5 Other Information

Version of hardware and software:

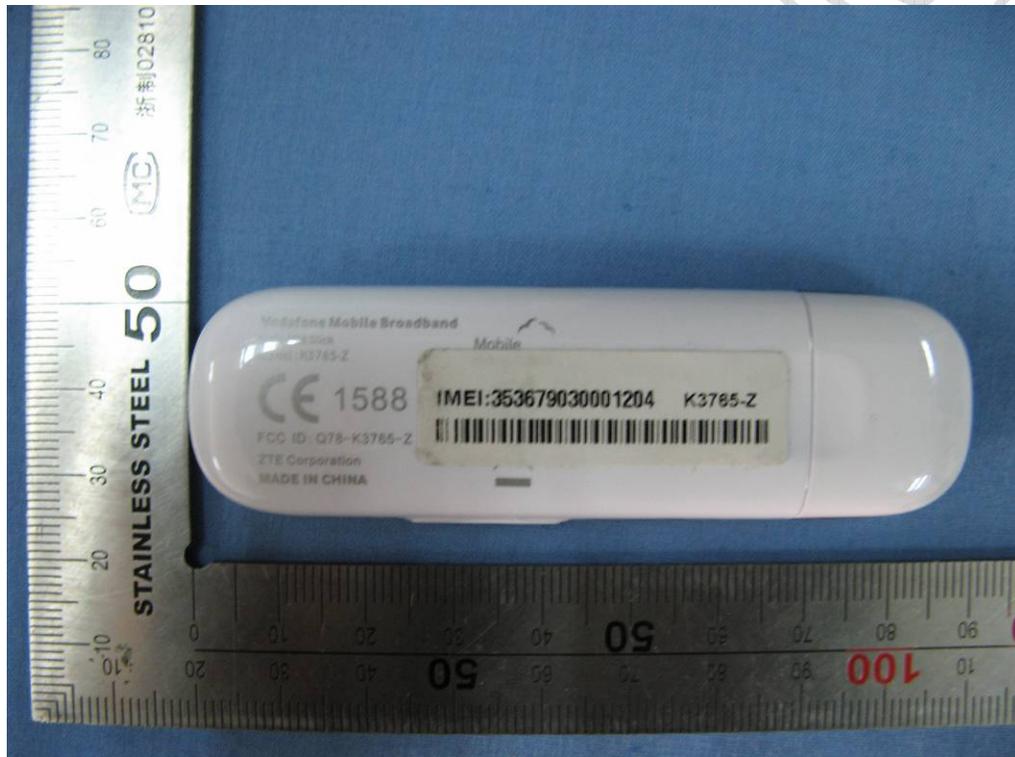
HW Version: P673A1-2.0.0

SW Version: BD\_VDFP673A1V1.0.0B02

### 2.6 EUT Photographs



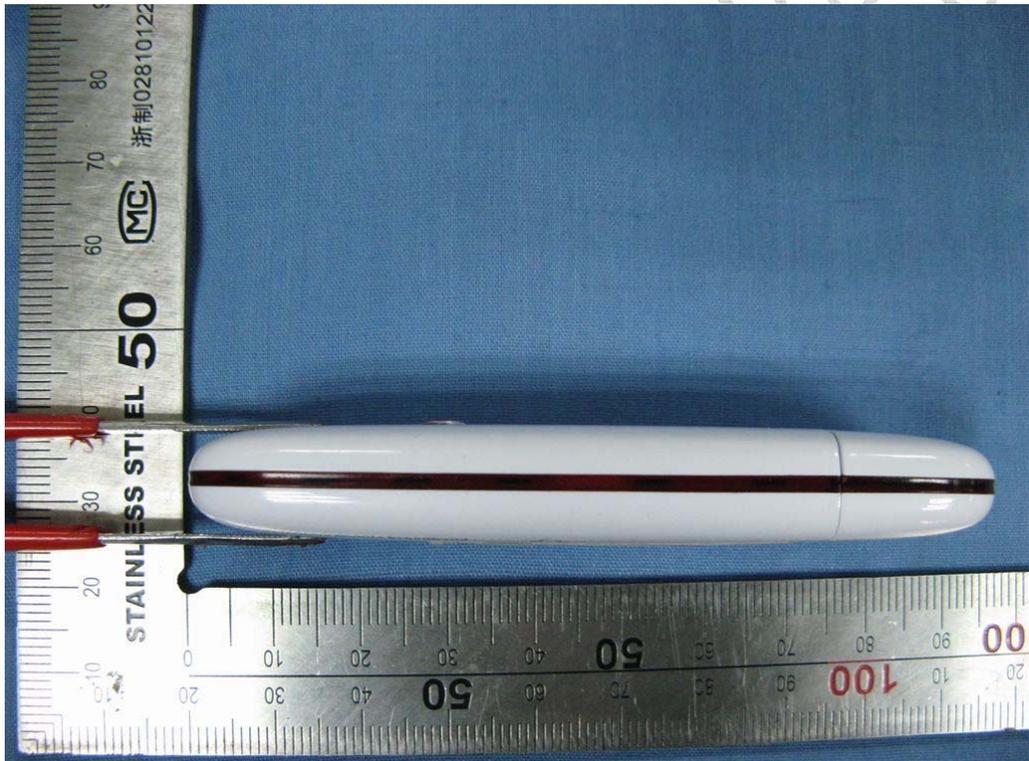
Face 1 (side B: horizontal-down side)



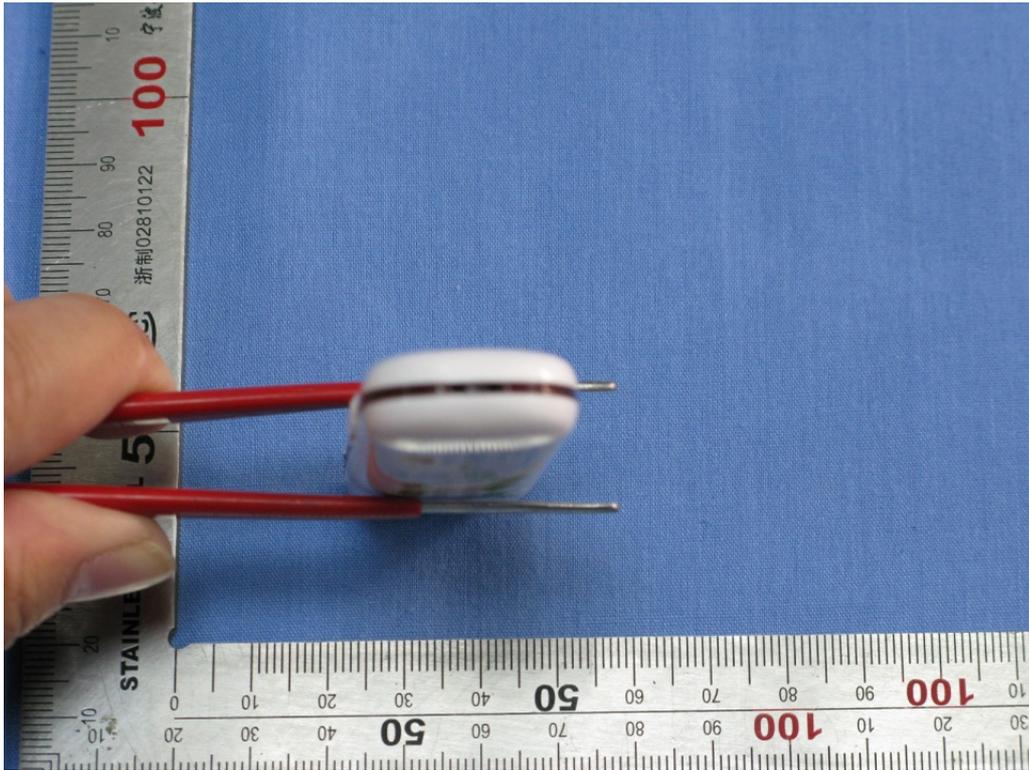
Face 2 (side A: horizontal-up side)



Face 3



Face 4



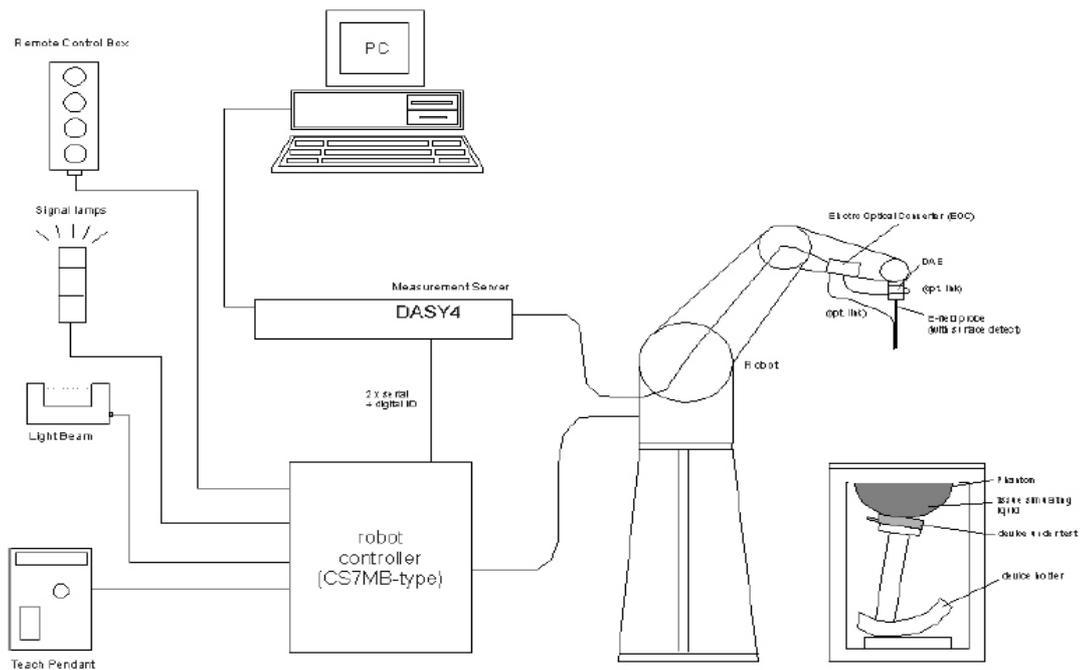
Face 5

### 3 Measurement Systems

#### 3.1 SAR Measurement Systems Setup

All measurements were performed using the automated near-field scanning system, DASY5, from Schmid & Partner Engineering AG (SPEAG). The system is based on a high precision industrial robot which positions the probes with a positional repeatability of better than 0.02mm. 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 containing the power supply, robot controller, teach pendant (Joystick) and remote control, is used to drive the robot motors. The PC consists of the Micron Pentium III 800 MHz computer with Windows 2000 system and SAR Measurement Software DASY5, 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) performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc., which is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical signal to digital electric signal of the DAE and transfers data to the PC plug-in card.



Demonstration of measurement system setup

The DAE4 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.

### 3.2 E-field Probe

#### 3.2.1 E-field Probe Description

The SAR measurements were conducted with the dosimetric probe ES3DV3 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the standard procedure with an accuracy of better than  $\pm 10\%$ . The spherical isotropy was evaluated and found to be better than  $\pm 0.25\text{dB}$ .

Items	Specification
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection System Built-in shielding against static charges PEEK enclosure material(resistant to organic solvents, e.g., glycol)
Calibration	In air from 10 MHz to 2.5 GHz In brain and muscle simulating tissue at

	frequencies of 450MHz, 900MHz and 1.8GHz (accuracy±8%) Calibration for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz; Linearity: ±0.2 dB (30 MHz to 3 GHz)
Directivity	±0.2 dB in brain tissue (rotation around probe axis) ±0.4 dB in brain tissue (rotation normal probe axis)
Dynamic Range	5u W/g to > 100mW/g; Linearity: ±0.2dB
Surface Detection	±0.2 mm repeatability in air and clear liquids over diffuse reflecting surface
Dimensions	Overall length: 330mm Tip length: 16mm Body diameter: 12mm Tip diameter: 6.8mm Distance from probe tip to dipole centers: 2.7mm
Application	General dosimetry up to 3GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

### 3.2.2 E-field Probe Calibration

The Annex C is the copy of the calibration certificate of the used probes.

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than ± 10%. The spherical isotropy was evaluated and found to be better than ± 0.25dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The free-space E-field measured in the medium correlates to temperature increase in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:  $\Delta t$  = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

$\Delta T$  = Temperature increase due to RF exposure.

Or

$$SAR = \frac{|E|^2 \sigma}{\rho}$$

Where:

$\sigma$  = Simulated tissue conductivity,

$\rho$  = Tissue density (kg/m<sup>3</sup>).

### 3.3 Phantom

The Generic Twin Phantom is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90% of all users. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

Specifications:

Shell Thickness: 2±0.1mm

Filling Volume: Approx. 20 liters

Dimensions: 810 x 1000 x 500 mm (H x L x W)

Liquid depth when testing: at least 150 mm

### 3.4 Device Holder

In combination with the Generic Twin Phantom V3.0, the Mounting Device (POM) enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeat ably positioned according to the FCC and CENELEC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom etc).

## 4 Test Results

### 4.1 Operational Condition

**Specifications** FCC OET 65C (01-01)

**Date of Tests** 2009-05-15,2009-5-16

**Operation Mode** TX at the highest output peak power level

**Method of measurement:** FCC OET 65C (01-01)

References: FCC KDB 447498 D02 SAR Procedures for Dongle Xmtr v01  
941225 D03 SAR Test Reduction GSM GPRS EDGE vo1

### 4.2 Test Equipment Used

TYPE	ITEM	S/N	CALIBRATION DATE	DUE DATE
CMU200	Wireless Communication Test Set	109172	2009-04-16	2010-04-15
Anritsu MT8820B	Wireless Communication tester	6200772659	N.A	N.A
ES3DV3	probe	3170	2008-05-30	2009-05-29
DAE	DAE4	797	2008-04-17	2009-10-16
D835V2	dipole	4d060	2008-06-06	2009-06-05
D1900V2	dipole	5d093	2008-06-10	2009-06-09
NRVS	Power Meter	100231	2009-01-09	2010-01-08
NRVS	Power Meter	100085	2009-01-09	2010-01-08
SMP04	Signal Generator	1035.5005.04	2008-12-26	2009-12-25
NRV-Z32	Power Sensor	836471/003	2009-01-09	2010-01-08
NRV-Z32	Power Sensor	836471/004	2009-01-09	2010-01-08
Narda 4242-20	Coupler	04200	N.A.	N.A.
Amplifier Research 150W1000	Power Amplifier	310693	N.A.	N.A.
Agilent 85070 E	Liquid Parameters Measurement System	3G-S-00139	N.A.	N.A.
Agilent E8362B	Vector Network Analyzer	MY43021471	2009-01-20	2010-01-19

For conducted power testing, CMU200 SN: 109172 is used, and for communicating with the DUT in testing, Anritsu MT8820B SN: 6200772659 is used.

### 4.3 Applicable Limit Regulations

Item	Limit Level
Local Specific Absorption Rate (SAR) (1g)	1.6W/kg

### 4.4 Test Results

The EUT complies.

Note:

All measurements are traceable to national standards.

### 4.5 Test Setup and Procedures

#### 4.5.1 Test distance

For data card, the distance between EUT and flat phantom is 5 mm for body modes.

#### 4.5.2 Duty Factor and Crest Factor

For GPRS the crest factor is 1:4.15 (multi time class 10) and for EGPRS it is 1:2 (multi time class 12). For GPRS, GMSK modulation and coding scheme CS1 are used in the test, and for EGPRS, GMSK modulation and coding scheme MCS1 are used.

#### 4.5.3 Test setup pictures:

Configurations	pictures no. in Annex A
Face 1 to phantom (horizontal-down side) With cable	1
Face 2 to phantom (horizontal-up side) with laptop	2
Face 3 to phantom (vertical side) with laptop	3
Face 4 to phantom (vertical side) with cable	4
Face 5 to phantom (top side) with cable	5

#### 4.5.4 Head mode test procedures

For head mode, the evaluation was performed according to the following procedure:  
Step 1: The SAR value at a fixed location above the ear point was measured and was used as a reference value for assessing the power drift.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 10 mm x 10 mm. Based on these data, the area of the maximum absorption was determined by

interpolation.

Step 3: Around this point, a volume of 32 mm x 32 mm x 30 mm was assessed by measuring 5 x 5 x 7 points. For some cases that results is near the limit of 1.2W/kg, high resolution scan may be used. On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

- a. The data at the surface were extrapolated, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on the least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
- b. The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x ~ y and z-directions). The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
- c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation should be repeated.

#### 4.5.5 General Test procedure for body-worn mode

Step 1: For one mode and band, test the middle channel of each of the front side and back side mode with the 5 mm distance between the handset and the bottom of the phantom, including slip open and close. Find out the worst case.

Step 2: For the worst case of step 1, test the low and high channel.

Step 3: Find out the worst case of step 1 and 2, and for this case, test the mode with Bluetooth on, and then with earphone using voice traffic mode.

Step 4: Repeat all the above steps for other modes and bands.

## 4.6 Test Environment and Liquid Information

### 4.6.1 Test Environment

Date:	Liquid Temperature (°C)	Ambient Temperature (°C)	Ambient Humidity (%)
	20~24	20~25	30~70
2009-05-15	22.7	22.4	43
2009-05-16	21.4	21.1	42

### 4.6.2 Liquid Recipes

INGREDIENTS	TISSUE TYPE			
	835MHz Head	835MHz body	1900MHz Head	1900MHz body
Water	40.29	50.75	55.24	70.17
DGBE	0	0	44.45	29.44
Sugar	57.90	48.21	0	0
Salt	1.38	0.94	0.31	0.39
Cellulose	0.24	0.00	0	0
Preventol	0.18	0.10	0	0

### 4.6.3 Liquid Parameters

Date: 2009-05-15

Frequency	Tissue Type	Type	Dielectric Parameters	
			permittivity	conductivity
835 MHz	Body	Target	55	0.97
		±5% window	52.25~57.75	0.92~1.02
		Measured	53.8	0.999

Date: 2009-05-16

Frequency	Tissue Type	Type	Dielectric Parameters	
			permittivity	conductivity
1900 MHz	Body	Target	53.3	1.52
		±5% window	50.64~55.97	1.44~1.60
		Measured	51.0	1.53

## 4.7 System Validation Check

### Validation Method:

The setup of system validation check or performance check is demonstrated as figure 5. The amplifier, low pass filter and attenuators are optional. The dipole shall be positioned and centered below the phantom, paralleling to the longest side of the phantom. A low loss and low dielectric constant spacer on the dipole may be used to guarantee the correct distance between the dipole top surface and the phantom bottom surface.

The separation  $d$ , which is defined as the distance from the liquid bottom surface to the dipole's central axis at location of the feed-point, should be as following: for 835 MHz dipole,  $d = 15$  mm, and for 1900 MHz dipole,  $d = 10$  mm, and this can be obtained using two different size spacer. The dipole arms shall be parallel to the flat phantom surface.

First the power meter PM1 is connected to the cable and it measures the forward power at the location of the dipole connector (X). The signal generator is adjusted for the desired forward power at the dipole connector (taking into account the (Att1) value) and the power meter PM2 is read at that level. Then after connecting the cable to the dipole, the signal generator is readjusted for the same reading at the power meter PM2.

The system validation check procedures are the same as all measurement procedures used for compliance tests. A complete 1 g averaged SAR measurement is performed using the flat part of the phantom. The reference dipole input power is adjusted to produce a 1 g averaged SAR value falling in the range of 0.4 – 10 mW/g. The 1 g averaged SAR is measured at 835 MHz and 1900 MHz using corresponding dipole respectively. Then the results are normalized to 1 W forward input power and compared with the reference SAR values.

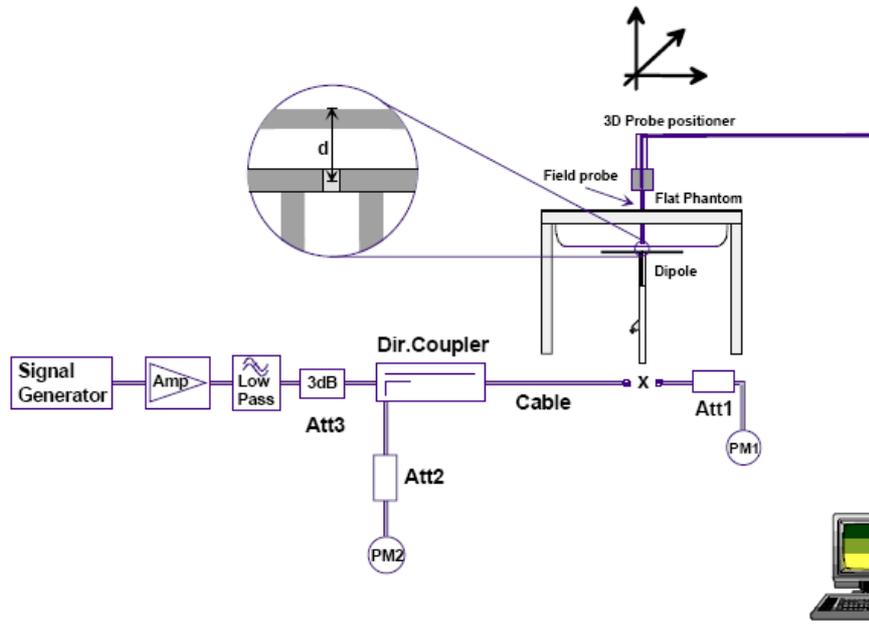


Figure 5 Illustration of system validation test setup

**Validation Results**

Date:	Frequency (MHz)	Tissue Type	Input Power	Targeted (SAR1g)	Measured (SAR1g)	Deviation (%)
2009-05-15	835	Body	250	2.42	2.38	-1.7%
2009-05-16	1900	Body	250	9.69	9.15	-5.6%

**4.8 Maximum Output Power Measurement**

According to FCC OET 65c, maximum output power shall be measured before and after each SAR test. The test setup and method are described as following.

Test setup

The output power measurement test setup is demonstrated as figure 6.

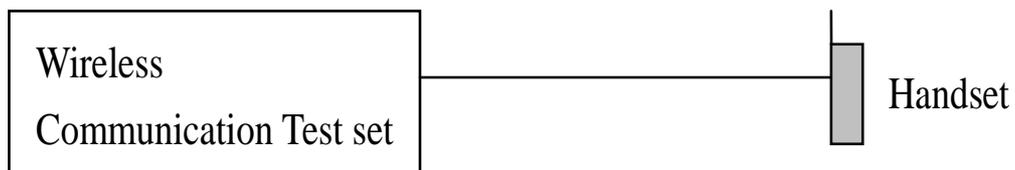


Figure 6 Demonstration of power measurement

The power control level settings and measurement value are as following table.

FCC Part 2.1093 (2006-3-23), FCC OET 65C (01-01)  
Equipment: K3765-Z

REPORT NO.: I09GE4359-FCC-SAR-2

Band	mode	PCL setting	Permissible max.values	Channel[low]	Channel[mid]	Channel[high]
				128/ 824.20MHz	190/ 836.60 MHz	251/ 848.80 MHz
GPRS 850	2 TX (GMSK)	5	33dBm	28.6	28.9	29.0
EGPRS 850	4 TX (GMSK)			26.7	27.0	27.2

band	mode	PCL setting	Permissible max.values	Channel[low]	Channel[mid]	Channel[high]
				512/ 1850.2 MHz	661/ 1880.0 MHz	810/ 1909.8 MHz
GPRS 1900	2 TX (GMSK)	0	30dBm	26.1	26.1	26.2
EGPRS 1900	4 TX (GMSK)			24.6	24.6	24.7

### 4.9 Test Data

#### GSM850 band body GPRS

Test configuration	SAR <sub>1g</sub> [W/kg] / Power Drift [dB]		
	Channel 128 [low] 824.20 MHz	Channel 190 [Mid] 836.60 MHz	Channel 251 [high] 848.80 MHz
Face 1 cable	0.434 / 0.053	0.613 / -0.0495	<b>0.759 / -0.178</b>
Face 2 laptop	0.686 / 0.091	0.828 / 0.191	<b>0.924 / -0.054</b>
Face 3 laptop	0.441 / 0.0567	0.529 / 0.000507	<b>0.635 / 0.0287</b>
Face 4 cable	0.32 / -0.0769	0.447 / -0.122	<b>0.745 / 0.163</b>
Face 5 cable	0.0324 / 0.0555	0.0664 0.112	<b>0.106 / -0.181</b>

**GSM850 band body EGPRS**

Test configuration	SAR <sub>1g</sub> [W/kg] / Power Drift [dB]					
	Channel 128 [low] 824.20 MHz		Channel 190 [Mid] 836.60 MHz		Channel 251 [high] 848.80 MHz	
Face 1 cable	0.62	/ -0.0822	0.818	/ -0.143	<b>1.05</b>	<b>/ -0.151</b>
Face 2 laptop	0.846	/ -0.105	0.956	/ -0.0318	<b>1.14</b>	<b>/ 0.0525</b>
Face 3 laptop	0.557	/ -0.0327	0.668	/ 0.0327	<b>0.785</b>	<b>/ 0.0189</b>
Face 4 cable	0.482	/ 0.0132	0.716	/ 0.0635	<b>0.877</b>	<b>/ 0.0707</b>
Face 5 cable	0.0404	/ 0.17	0.0738	/ 0,0147	<b>0.101</b>	<b>/ -0.184</b>

Note: EGPRS test is with modulation and coding scheme MCS-1, using GMSK modulation.

**PCS1900 band body GPRS**

Test configuration	SAR <sub>1g</sub> [W/kg] / Power Drift [dB]								
	Channel 512 [low] 1850.2 MHz		Channel 661 [Mid] 1880.0 MHz		Channel 810 [high] 1909.8 MHz				
Face 1 cable	<b>0.683</b>	/	<b>0.0903</b>	0.65	/	0.0679	0.673	/	0.0628
Face 2 laptop	0.759	/	0.166	0.723	/	0.195	<b>0.764</b>	/	<b>0.0528</b>
Face 3 laptop	0.375	/	-0.037	0.383	/	0.13	<b>0.421</b>	/	<b>0.0591</b>
Face 4 cable	<b>0.52</b>	/	<b>0.0882</b>	0.463	/	0.0676	0.475	/	-0.0316
Face 5 cable	0.0656	/	-0.132	0.0584	/	0.0305	<b>0.0699</b>	/	<b>-0.0639</b>

**PCS1900 band body EGPRS**

Test configuration	SAR <sub>1g</sub> [W/kg] / Power Drift [dB]								
	Channel 512 [low] 1850.2 MHz		Channel 661 [Mid] 1880.0 MHz		Channel 810 [high] 1909.8 MHz				
Face 1 cable	<b>0.966</b>	/	<b>0.135</b>	0.927	/	-0.0283	0.909	/	0.00231
Face 2 laptop	1.06	/	0.197	1.02	/	0.15	<b>1.09</b>	/	<b>-0.0886</b>
Face 3 laptop	0.536	/	0.0266	0.547	/	0.0584	<b>0.597</b>	/	<b>-0.163</b>
Face 4 cable	<b>0.723</b>	/	<b>-0.0507</b>	0.649	/	0.0634	0.663	/	0.0407
Face 5 cable	0.0983	/	-0.0926	0.103	/	-0.0853	<b>0.114</b>	/	<b>-0.00496</b>

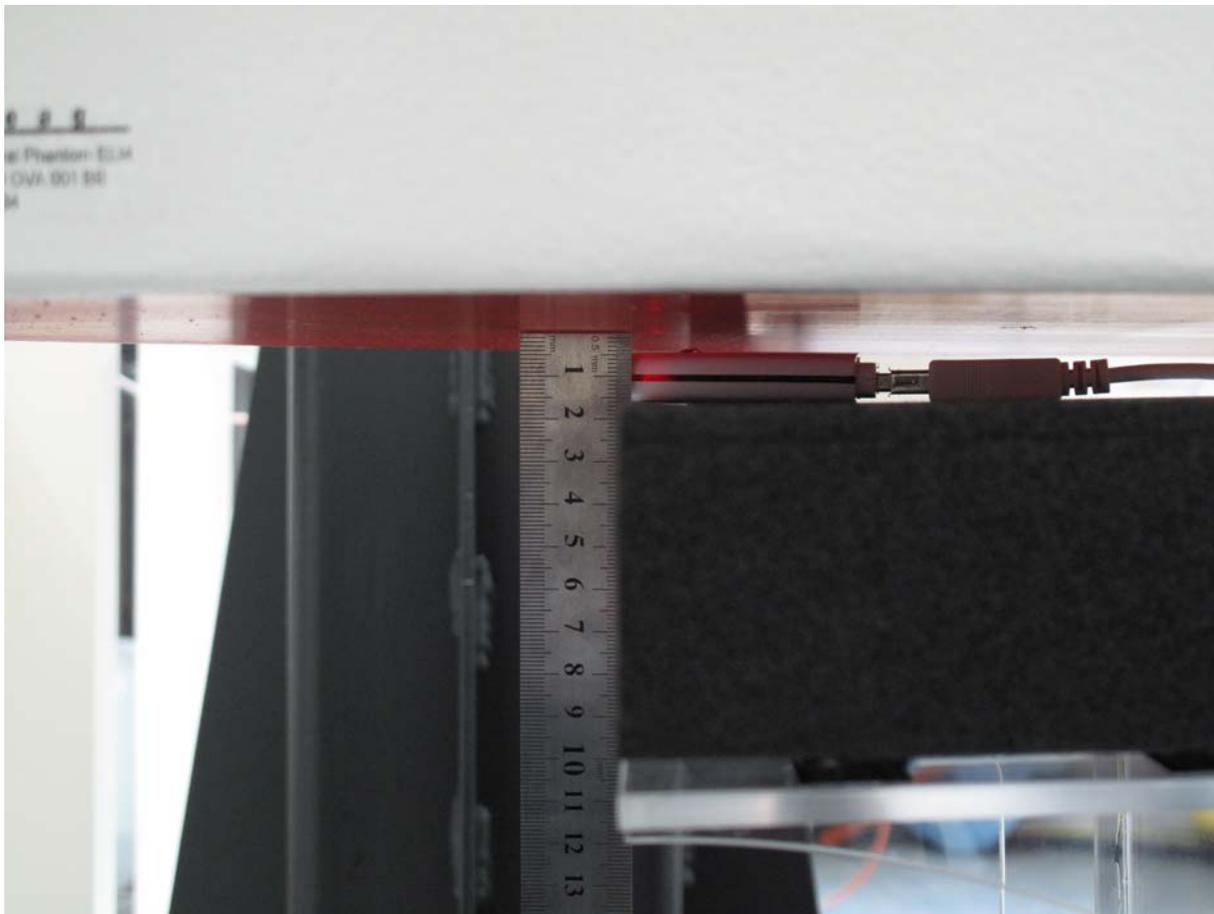
Note: EGPRS test is with modulation and coding scheme MCS-1, using GMSK modulation.

## 4.10 Measurement uncertainty

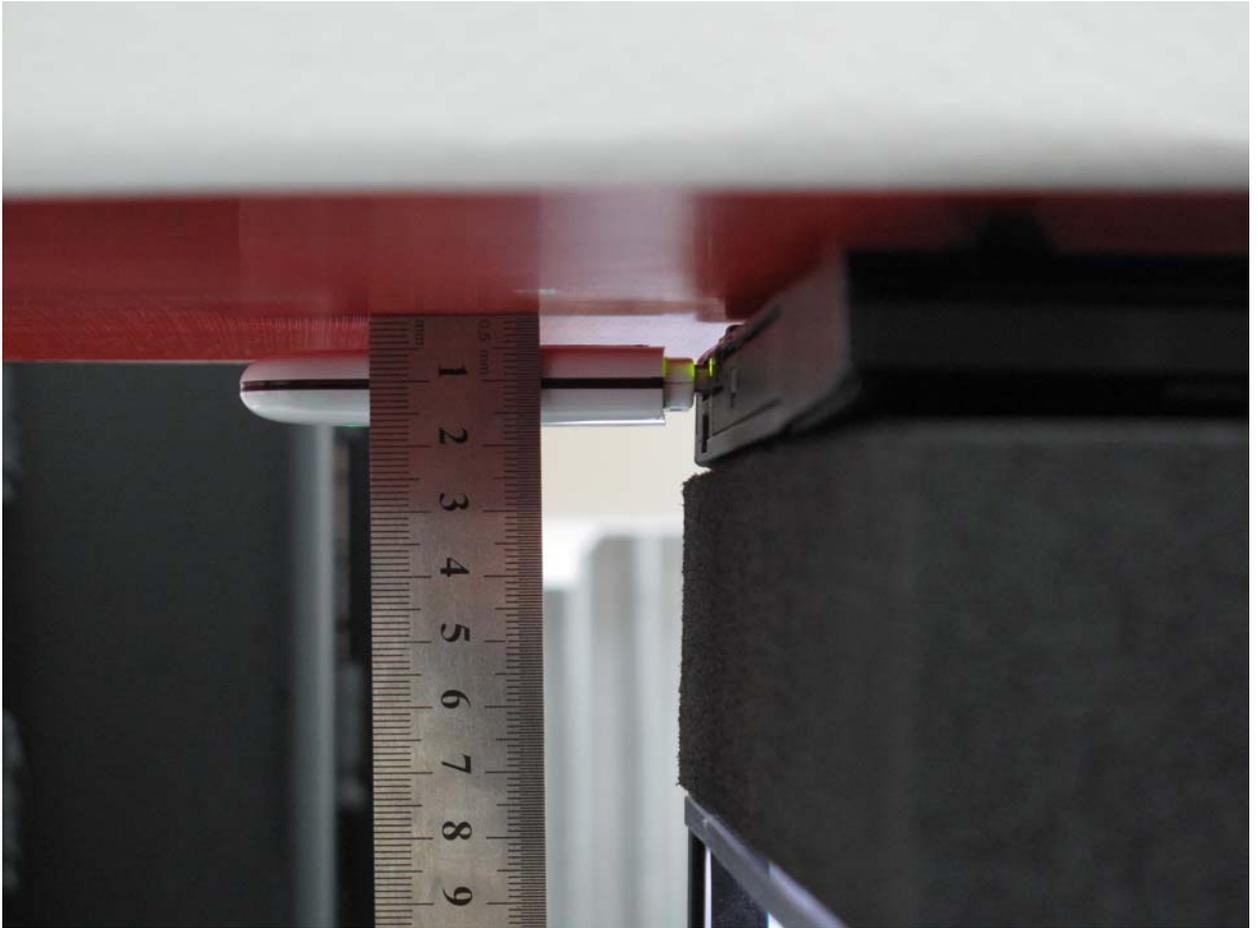
ERROR SOURCE	Uncertainty value (%)	Probability distribution	Divisor	$c_i$ (1g)	Standard Uncertainty (%)
<b>Measurement equipment</b>					
Probe calibration	5.9	Normal	1	1	5.9
Probe axial isotropy	4.7	Rectangular	$\sqrt{3}$	0.7	1.9
Probe hemispherical isotropy	9.6	Rectangular	$\sqrt{3}$	0.7	3.9
Probe linearity	4.7	Rectangular	$\sqrt{3}$	1	2.7
Detection limits	0.25	Rectangular	$\sqrt{3}$	1	0.6
Boundary effect	0.8	Rectangular	$\sqrt{3}$	1	0.6
Measurement device	0.3	Normal	1	1	0.3
Response time	0.0	Normal	1	1	0
Noise	0.0	Normal	1	1	0
Integration time	1.7	Normal	1	1	2.6
<b>Mechanical constraints</b>					
Scanning system	1.5	Rectangular	$\sqrt{3}$	1	0.2
Positioning of the probe	2.9	Normal	1	1	2.9
Phantom shell	4.0	Rectangular	$\sqrt{3}$	1	2.3
Positioning of the dipole	2.0	Normal	1	1	2.0
Positioning of the phone	2.9	Normal	1	1	2.9
Device holder disturbance	3.6	Normal	1	1	3.6
<b>Physical parameters</b>					
Liquid conductivity (deviation from target)	5.0	Rectangular	$\sqrt{3}$	0.5	1.4
Liquid conductivity (measurement error)	4.3	Rectangular	$\sqrt{3}$	0.5	1.2
Liquid permittivity (deviation from target)	5.0	Rectangular	$\sqrt{3}$	0.5	1.4
Liquid permittivity (measurement error)	4.3	Rectangular	$\sqrt{3}$	0.5	1.2
Drifts in output power of the phone, probe, temperature and humidity	5.0	Rectangular	$\sqrt{3}$	1	2.9
Environment disturbance	3.0	Rectangular	$\sqrt{3}$	1	1.7
<b>Post-processing</b>					
SAR interpolation and extrapolation	0.6	Rectangular	$\sqrt{3}$	1	0.6
Maximum SAR evaluation	1.0	Rectangular	$\sqrt{3}$	1	0.6
Combined standard uncertainty	$u_c = \sqrt{\sum_{i=1}^m c_i^2 \cdot u_i^2} = 11.08\%$				
Expanded uncertainty (confidence interval of 95%)	Normal $u_e = 1.96u_c = 21.7\%$				

## ANNEX A Photographs

The separation distance from DUT to phantom is 5 mm for all test position



Face 1 to phantom  
(horizontal-down side) With cable



Face 2 to phantom  
(horizontal-up side) with laptop

China Test



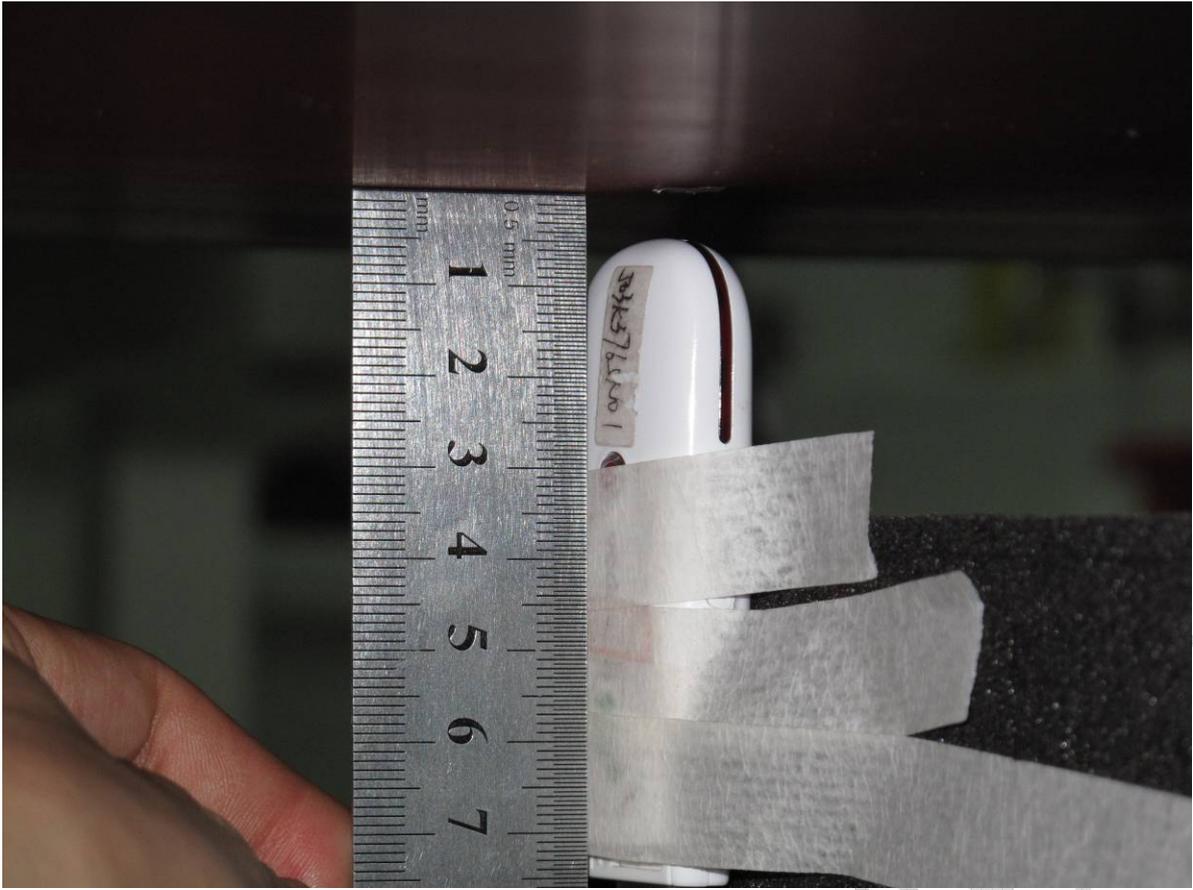
Face 3 to phantom  
(vertical side) with laptop

TTL Test



Face 4 to phantom  
(vertical side) with cable

TTL Test



Face 5 to phantom  
(top side) with cable

CITL Test

## ANNEX B Graphical Results

### B.1 Maximum body SAR of GPRS 850 band – High channel, face 2 to phantom

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_High\_GPRS850\_side 2 laptop horizontal

#### DUT: ZTE#K3765

Communication System: GPRS 850 class10; Frequency: 848.8 MHz; Duty Cycle: 1:4  
Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

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

Reference Value = 31.9 V/m; Power Drift = -0.054 dB

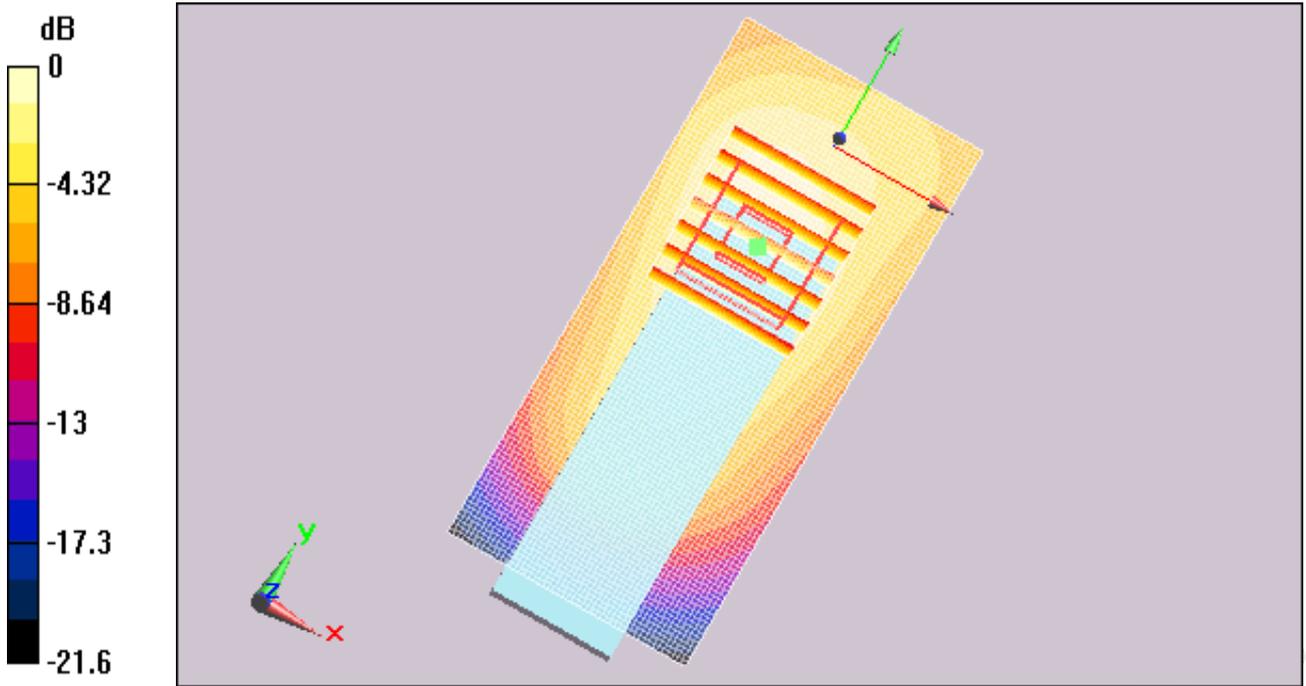
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.924 mW/g; SAR(10 g) = 0.601 mW/g

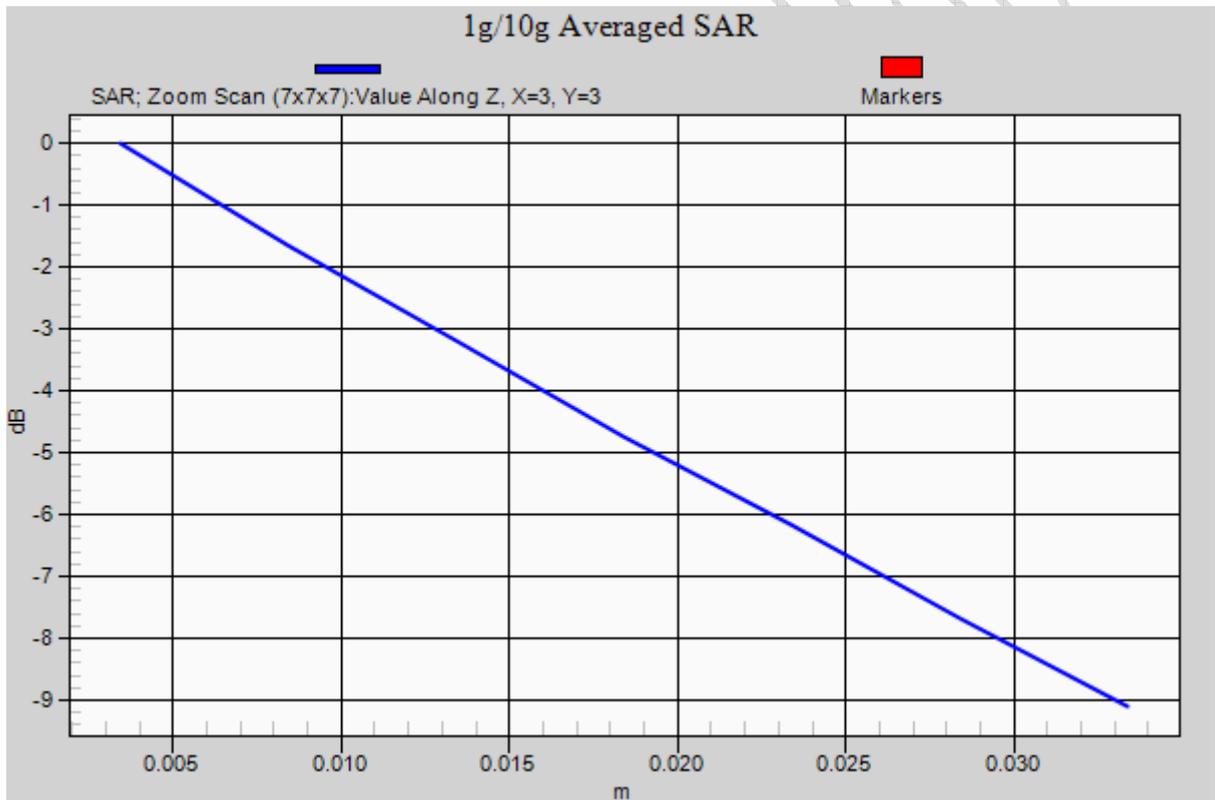
Maximum value of SAR (measured) = 1.05 mW/g

high/Area Scan (51x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.05 mW/g



0 dB = 1.05mW/g



## B.2 Maximum body SAR of EGPRS 850 band – High channel, face 2 to phantom

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_High\_EGPRS850\_side 2 laptop horizontal

### DUT: ZTE#K3765

Communication System: EGPRS 850 class12; Frequency: 848.8 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

high 2/Area Scan (51x111x1): Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 1.29 mW/g

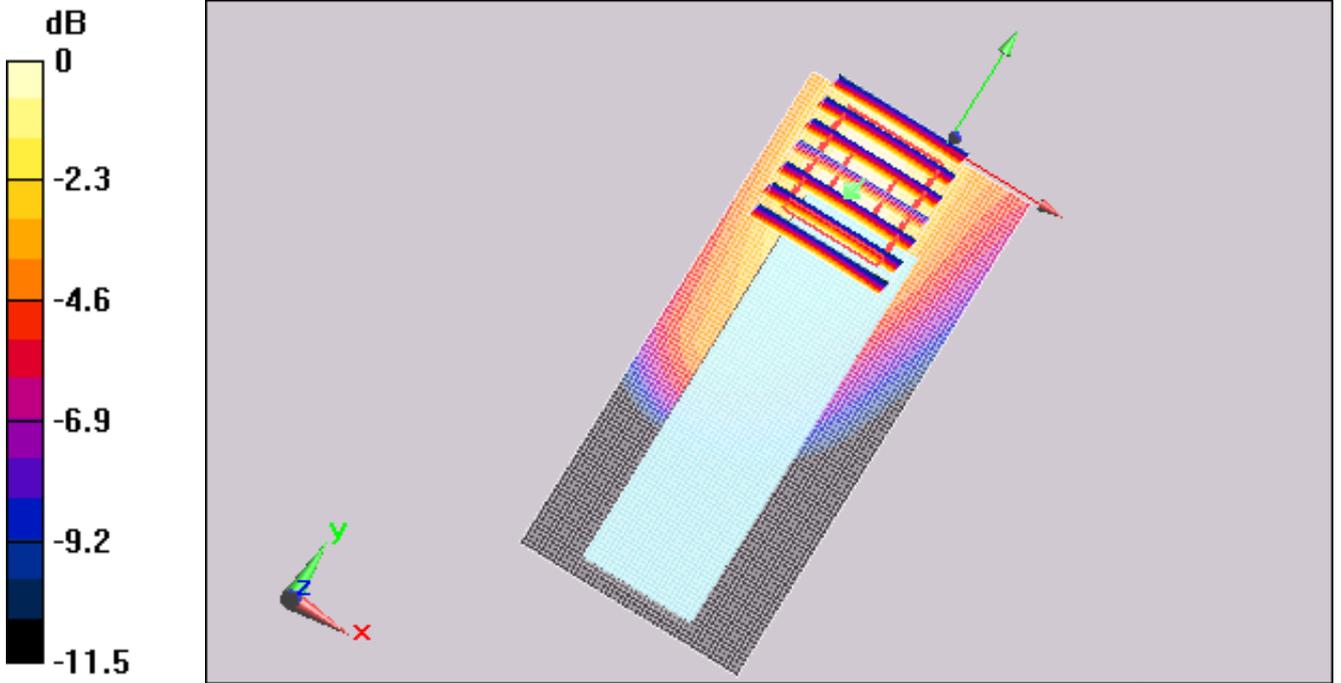
high 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.3 V/m; Power Drift = 0.052 dB

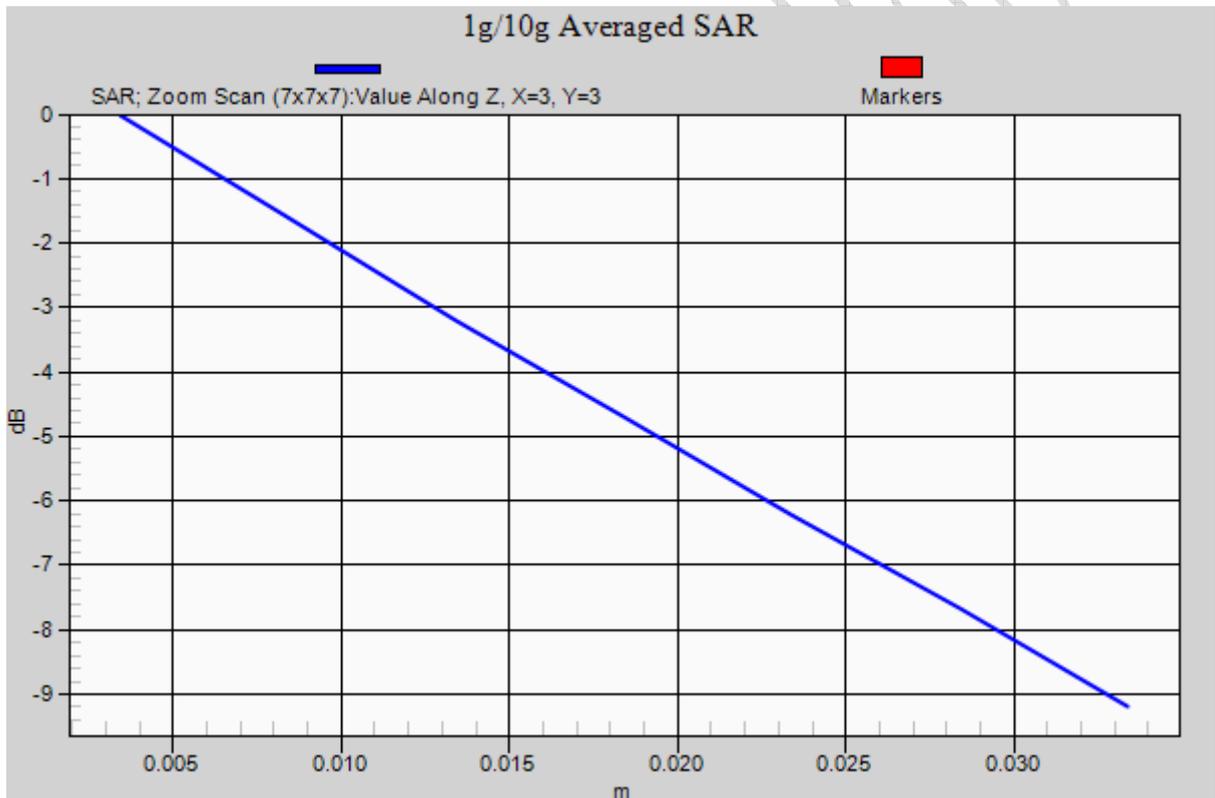
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.740 mW/g

Maximum value of SAR (measured) = 1.29 mW/g



0 dB = 1.29mW/g



### B.3 Maximum body SAR of GPRS 1900 band – High channel, face 2 to phantom

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_High\_GPRS1900\_side 2 laptop horizontal

#### DUT: ZTE#K3765

Communication System: GPRS 1900 class10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

high/Area Scan (51x111x1): Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.934 mW/g

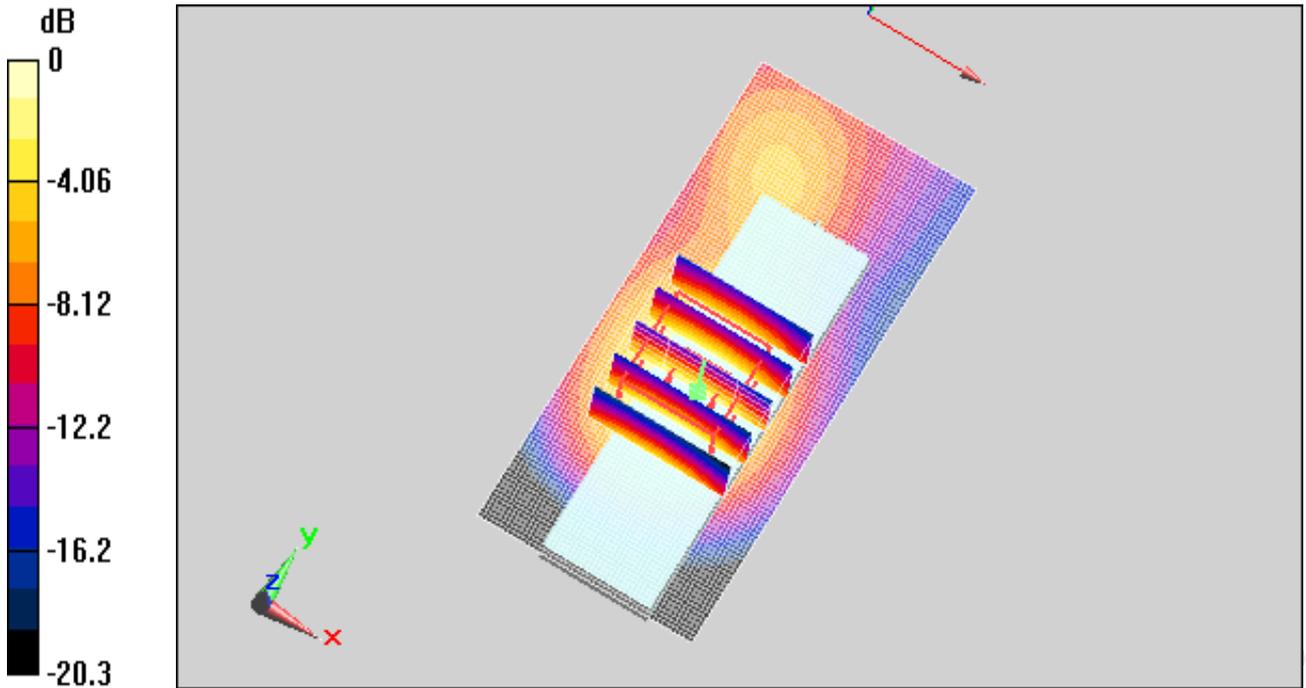
high/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = 0.053 dB

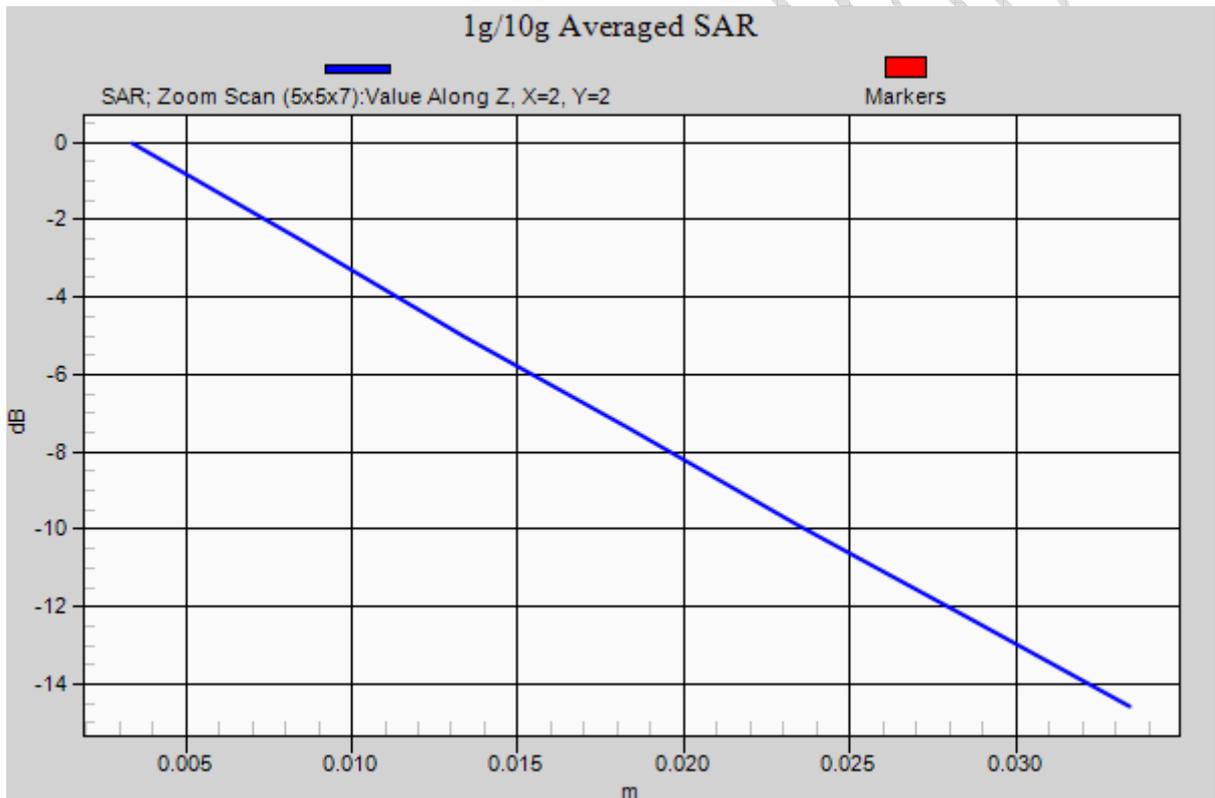
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.764 mW/g; SAR(10 g) = 0.393 mW/g

Maximum value of SAR (measured) = 0.925 mW/g



0 dB = 0.925mW/g



## B.4 Maximum body SAR of EGPRS 1900 band – high channel, face 2 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_High\_EGPRS1900\_side 2 laptop horizontal

### DUT: ZTE#K3765

Communication System: EGPRS 1900 class12; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

high/Area Scan (51x111x1): Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 1.34 mW/g

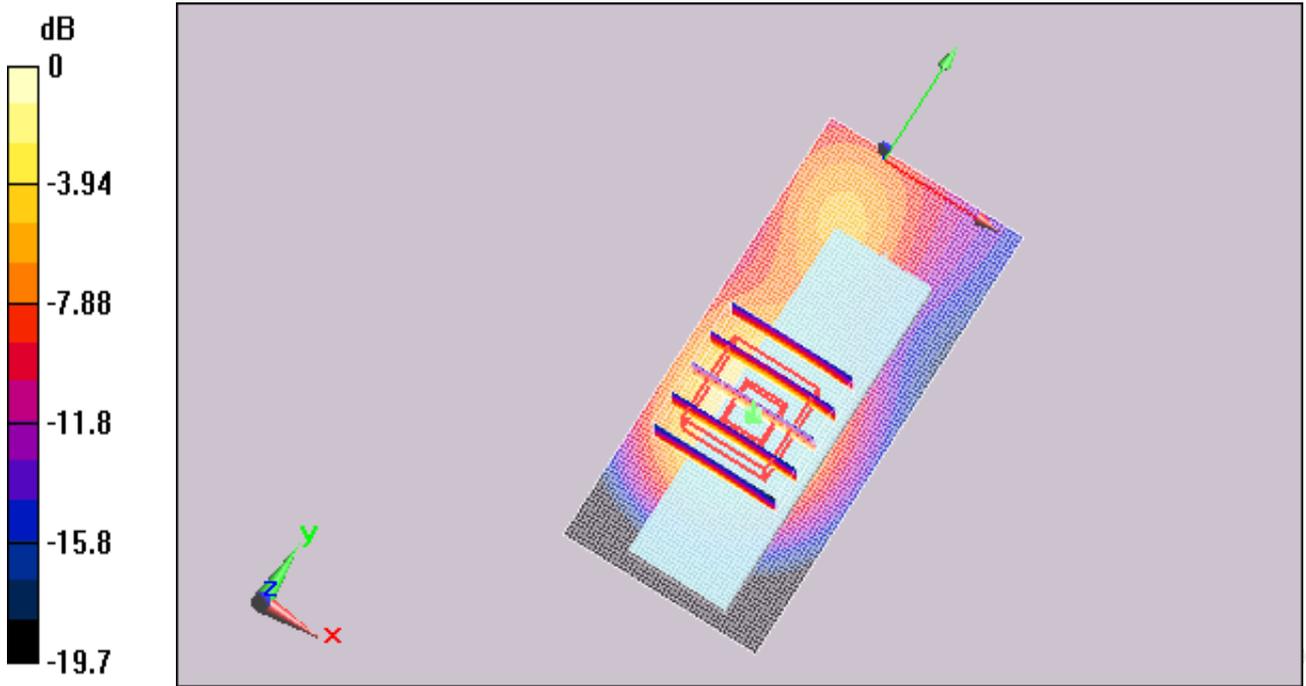
high/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = -0.089 dB

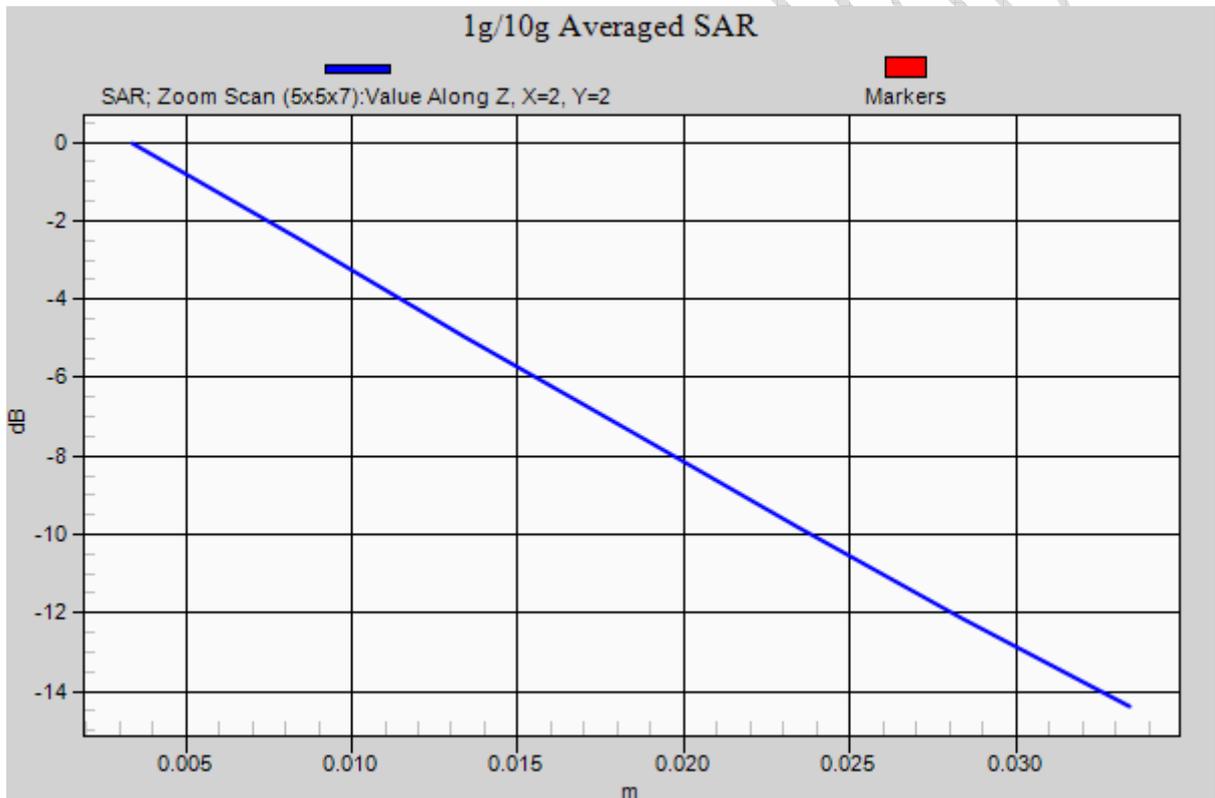
Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.558 mW/g

Maximum value of SAR (measured) = 1.32 mW/g



0 dB = 1.32mW/g



## B.5 Maximum body SAR of GPRS850 band of face 1 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_GPRS850\_high\_side 1 cable

DUT: ZTE#K3765;

Communication System: GPRS 850 class10; Frequency: 848.8 MHz; Duty Cycle: 1:4  
Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high 2/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.914 mW/g

**high 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm,  
dy=5mm, dz=5mm

Reference Value = 22.6 V/m; Power Drift = -0.178 dB

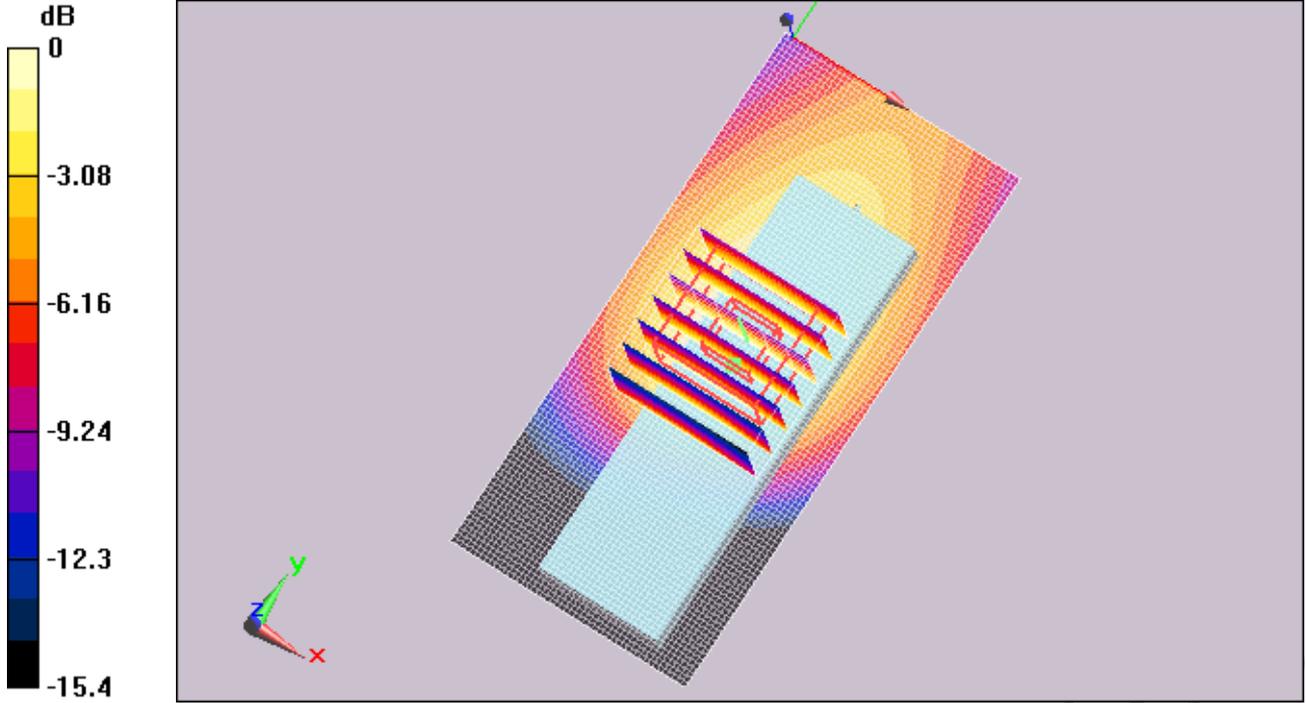
Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.478 mW/g**

Maximum value of SAR (measured) = 0.862 mW/g

FCC Part 2.1093 (2006-3-23), FCC OET 65C (01-01)  
Equipment: K3765-Z

REPORT NO.: I09GE4359-FCC-SAR-2



0 dB = 0.862mW/g

TTL Test Report

## B.6 Maximum body SAR of GPRS850 band of face 3 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_GPRS850\_high\_side 3 laptop vertical

DUT: ZTE#K3765;

Communication System: GPRS 850 class10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.717 mW/g

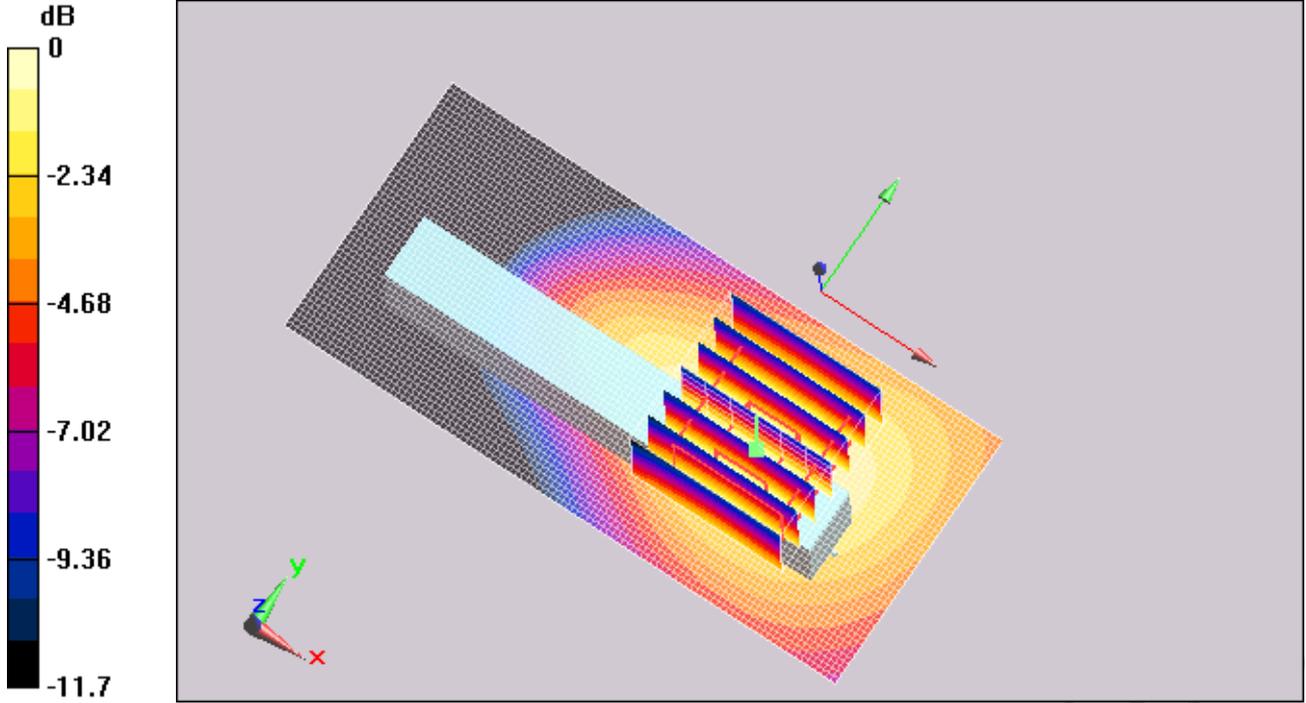
**high/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.8 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.958 W/kg

**SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.410 mW/g**

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



0 dB = 0.723mW/g

CITL Test Report

## B.7 Maximum body SAR of GPRS850 band of face 4 to phantom with laptop

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_GPRS850\_high\_side 4 laptop vertical

DUT: ZTE#K3765;

Communication System: GPRS 850 class10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.6 V/m; Power Drift = 0.163 dB

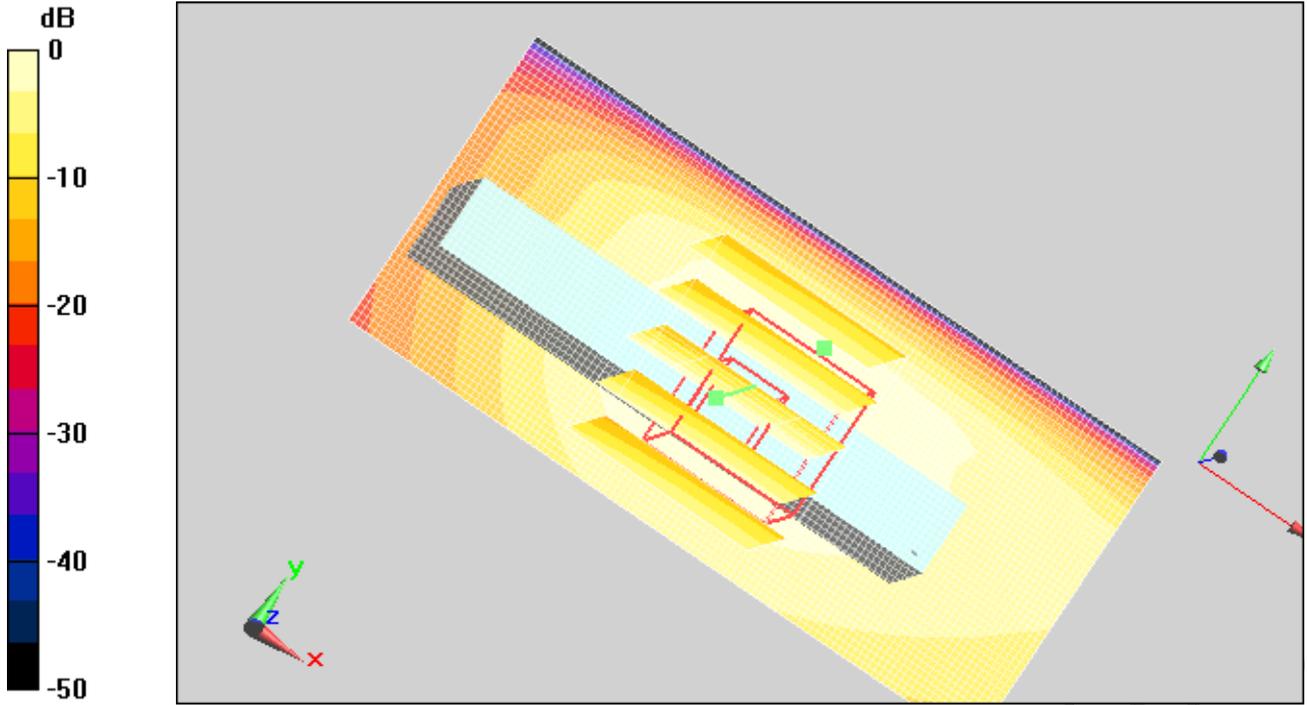
Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.745 mW/g; SAR(10 g) = 0.453 mW/g**

Maximum value of SAR (measured) = 0.867 mW/g

**high/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.844 mW/g



0 dB = 0.844mW/g

FTL Test Report

## B.8 Maximum body SAR of GPRS850 band of face 5 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_GPRS850\_high\_side 5 cable top

DUT: ZTE#K3765;

Communication System: GPRS 850 class10; Frequency: 848.8 MHz; Duty Cycle: 1:4  
Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12 V/m; Power Drift = -0.181 dB

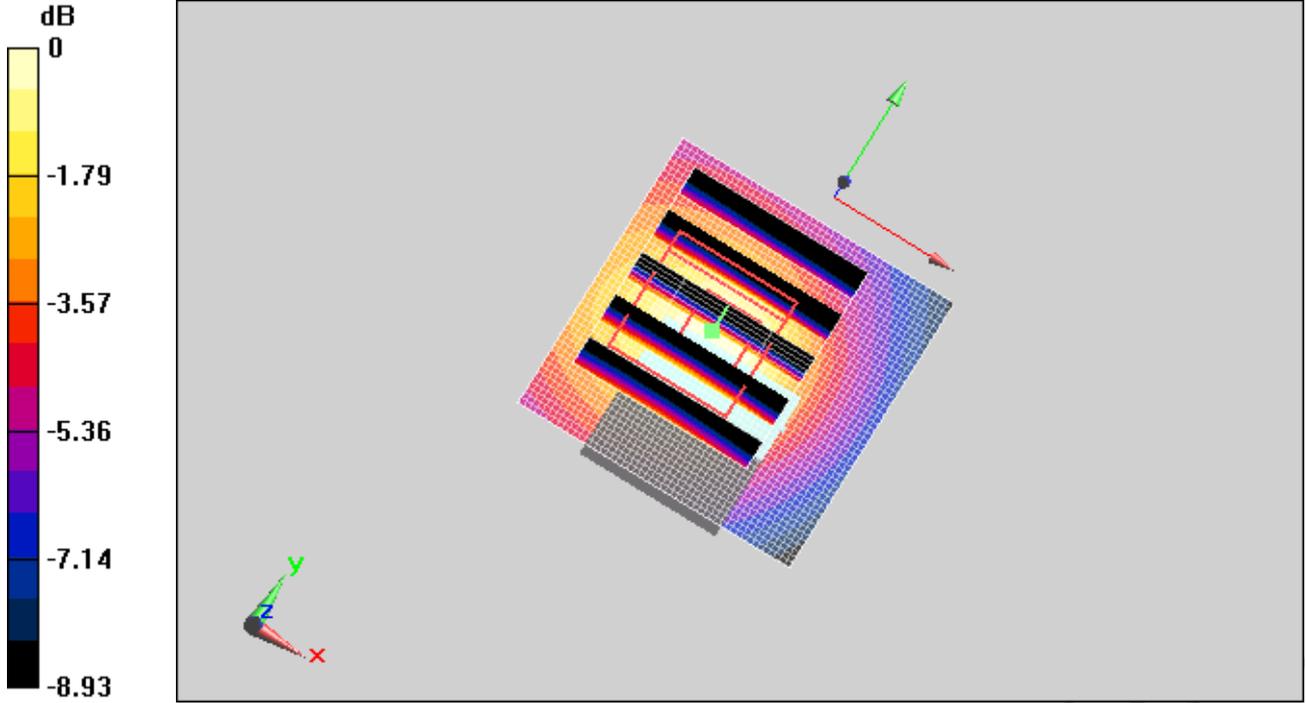
Peak SAR (extrapolated) = 0.219 W/kg

**SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.058 mW/g**

Maximum value of SAR (measured) = 0.128 mW/g

**high/Area Scan (51x51x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.135 mW/g



0 dB = 0.135mW/g

CITL Test Report

## B.9 Maximum body SAR of EGPRS850 band of face 1 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_EGPRS850\_high\_side 1 cable

DUT: ZTE#K3765;

Communication System: EGPRS 850 class12; Frequency: 848.8 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high 2/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 1.34 mW/g

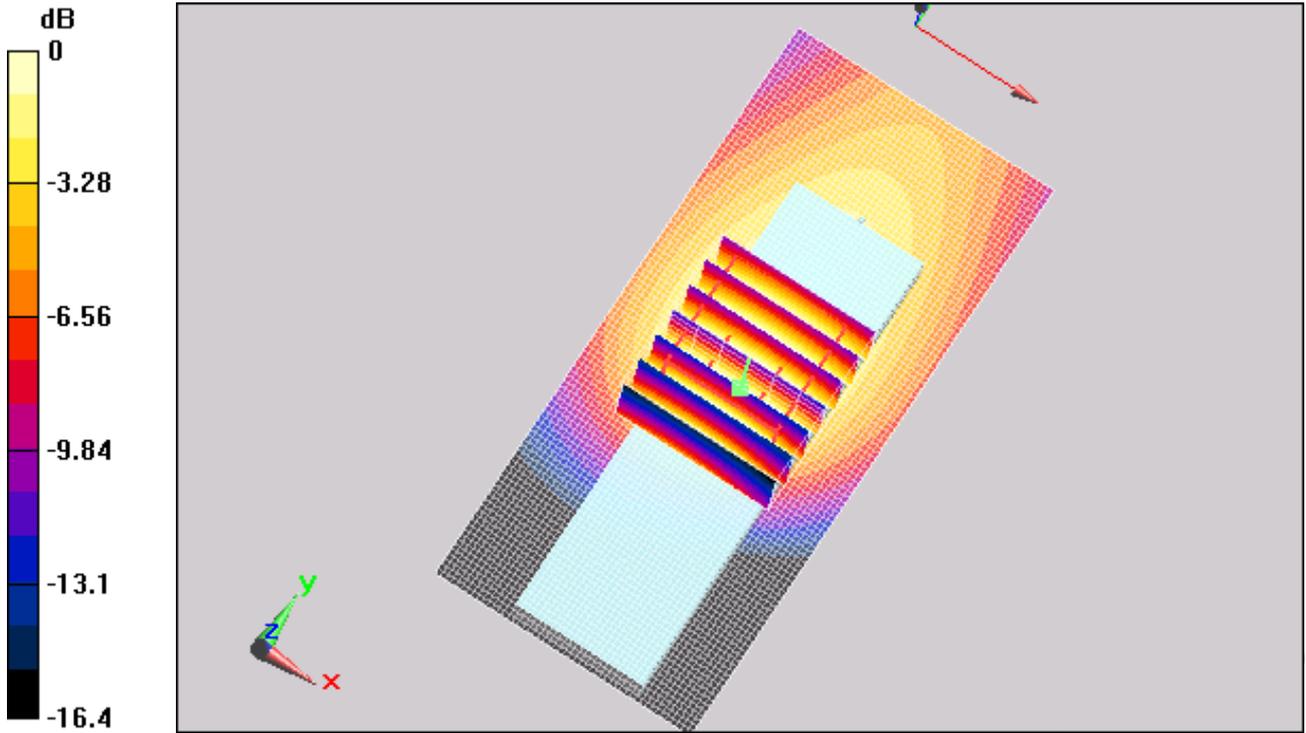
**high 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.7 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 1.95 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.648 mW/g**

Maximum value of SAR (measured) = 1.21 mW/g



0 dB = 1.21mW/g

TTL Test Report

## B.10 Maximum body SAR of EGPRS850 band of face 3 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_EGPRS850\_high\_side 3 laptop vertical

DUT: ZTE#K3765;

Communication System: EGPRS 850 class12; Frequency: 848.8 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.891 mW/g

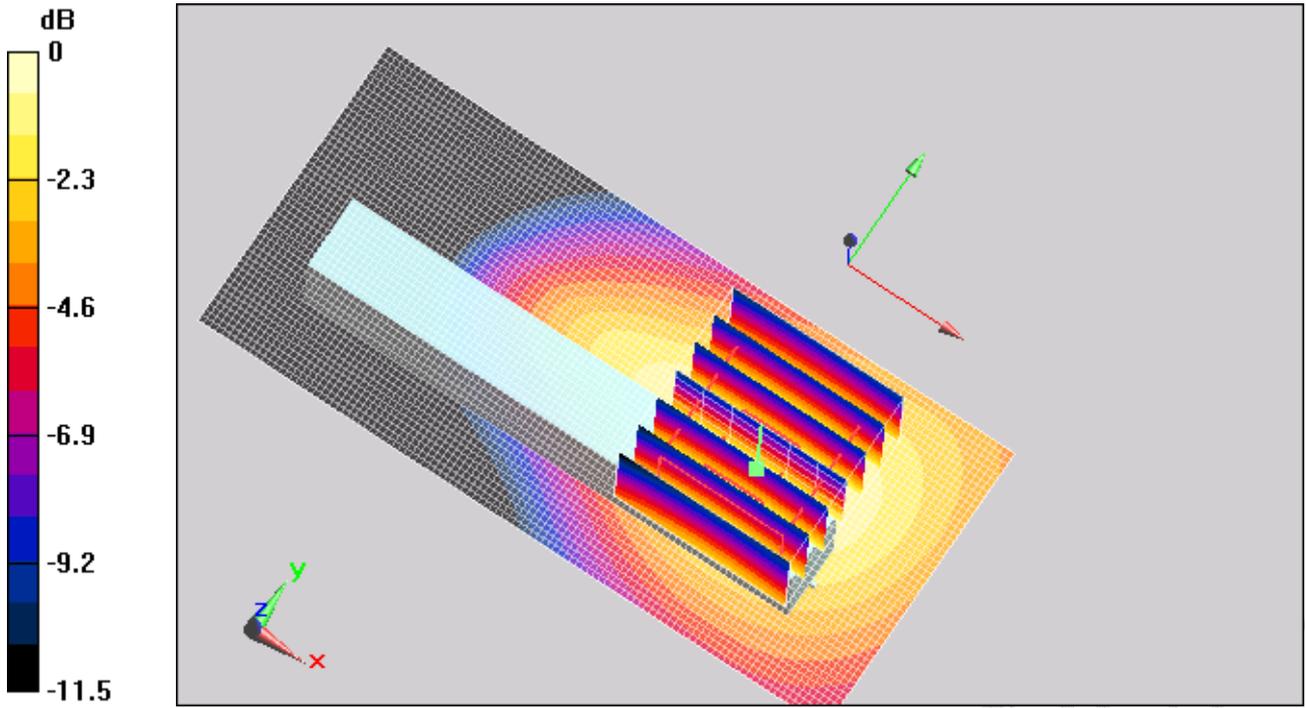
**high/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.1 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.785 mW/g; SAR(10 g) = 0.505 mW/g**

Maximum value of SAR (measured) = 0.903 mW/g



0 dB = 0.903mW/g

CITL Test Report

## B.11 Maximum body SAR of EGPRS850 band of face 4 to phantom with laptop

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_EGPRS850\_high\_side 4 cable vertical

DUT: ZTE#K3765;

Communication System: EGPRS 850 class12; Frequency: 848.8 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.9 V/m; Power Drift = -0.071 dB

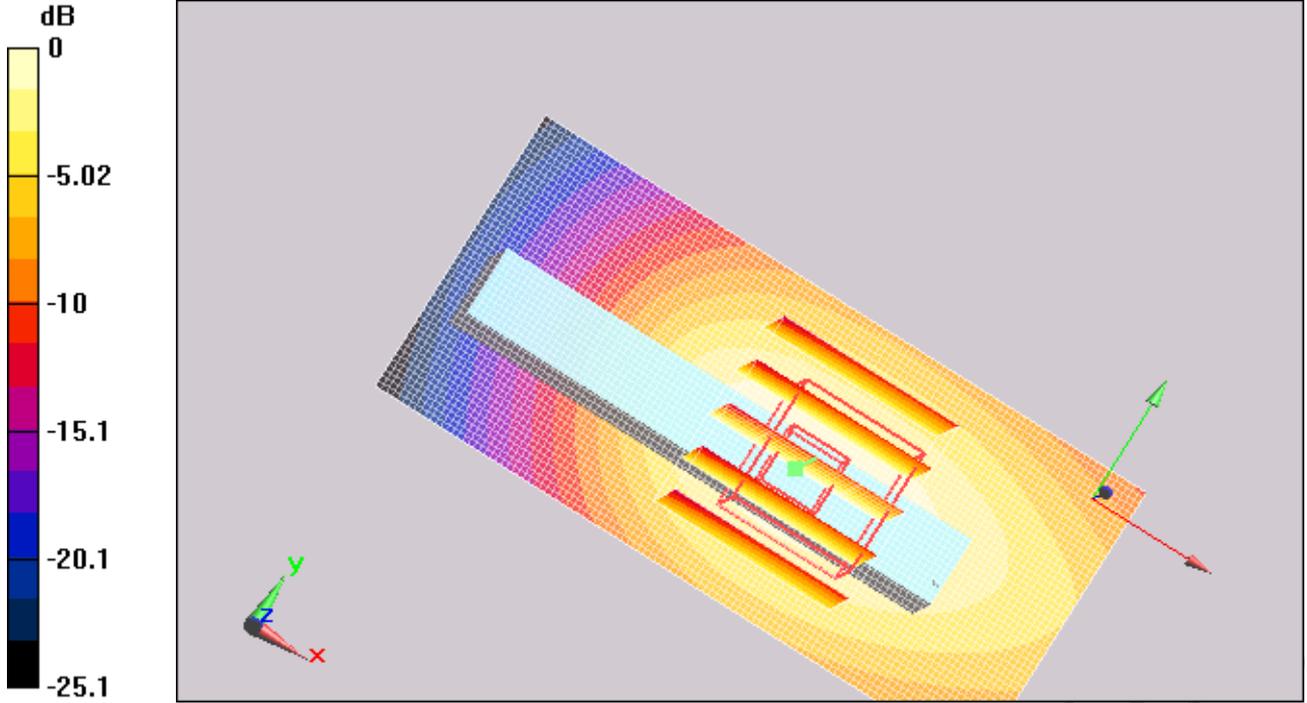
Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.877 mW/g; SAR(10 g) = 0.535 mW/g**

Maximum value of SAR (measured) = 1.03 mW/g

**high/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.06 mW/g



0 dB = 1.06mW/g

CITL Test Report

## B.12 Maximum body SAR of EGPRS850 band of face 5 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_EGPRS850\_high\_side 5 cable top

DUT: ZTE#K3765;

Communication System: EGPRS 850 class12; Frequency: 848.8 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.17 V/m; Power Drift = -0.184 dB

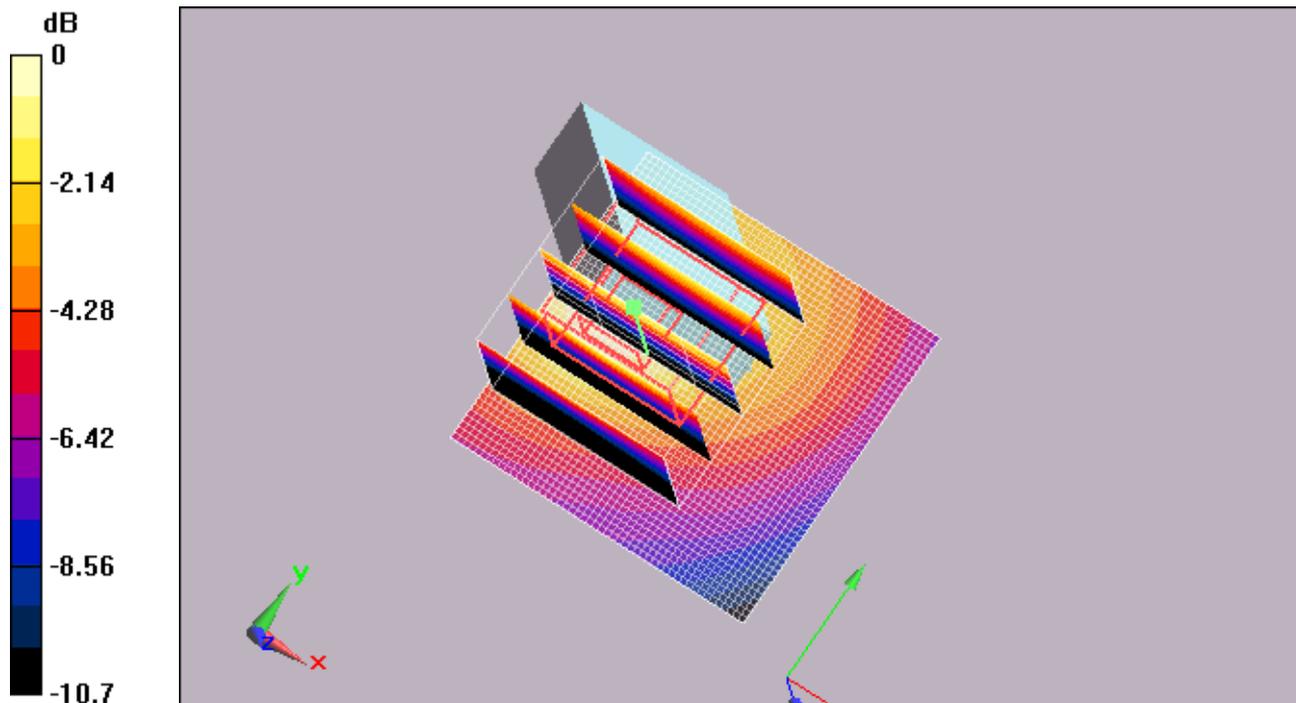
Peak SAR (extrapolated) = 0.195 W/kg

**SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.059 mW/g**

Maximum value of SAR (measured) = 0.117 mW/g

**high/Area Scan (51x51x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.125 mW/g



0 dB = 0.125mW/g

CITL Test Report

## B.13 Maximum body SAR of GPRS1900 band of face 1 to phantom with cable

Test Laboratory: CCTL

ZET#K3765\_FCC\_Body\_GPRS1900\_low\_side 1 cable

DUT: ZTE#K3765;

Communication System: GPRS 1900 class10; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 51.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = 0.090 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.359 mW/g**

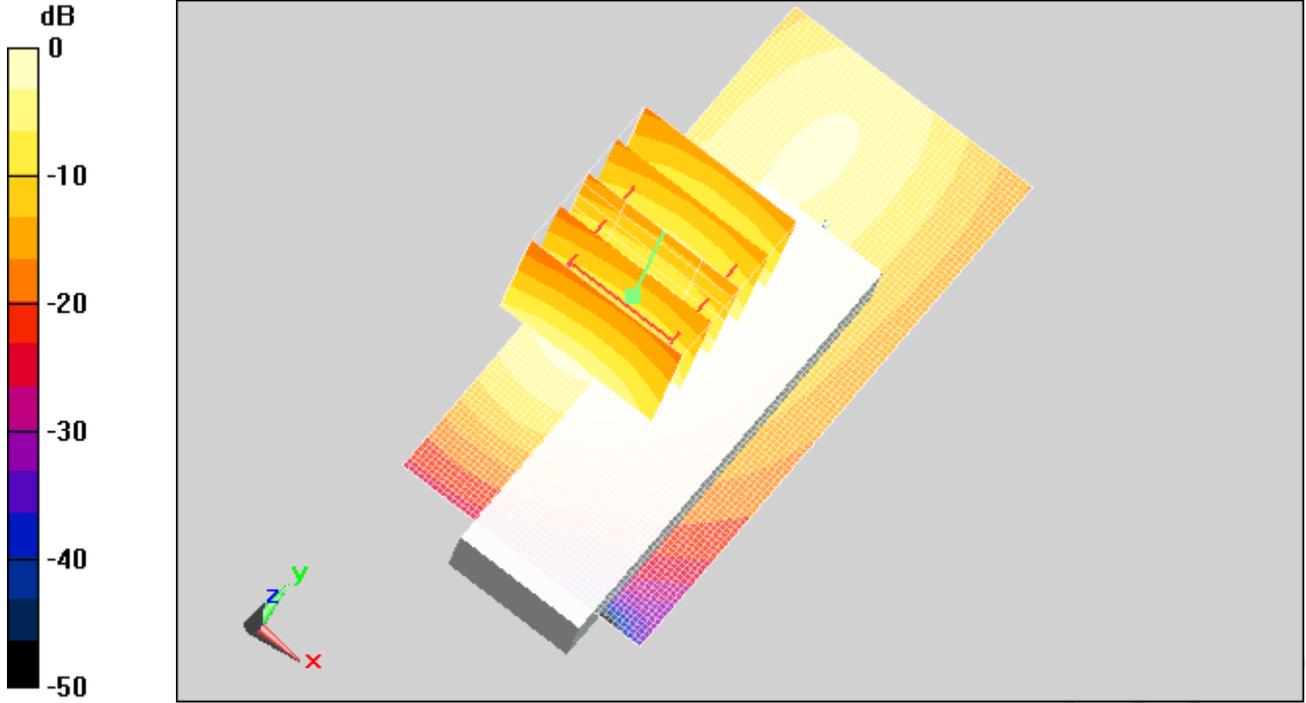
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.830 mW/g

**low/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.841 mW/g



0 dB = 0.841mW/g

TTL Test Report

## B.14 Maximum body SAR of GPRS1900 band of face 3 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_GPRS1900\_high\_side 3 laptop vertical

DUT: ZTE#K3765;

Communication System: GPRS 1900 class10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = 0.059 dB

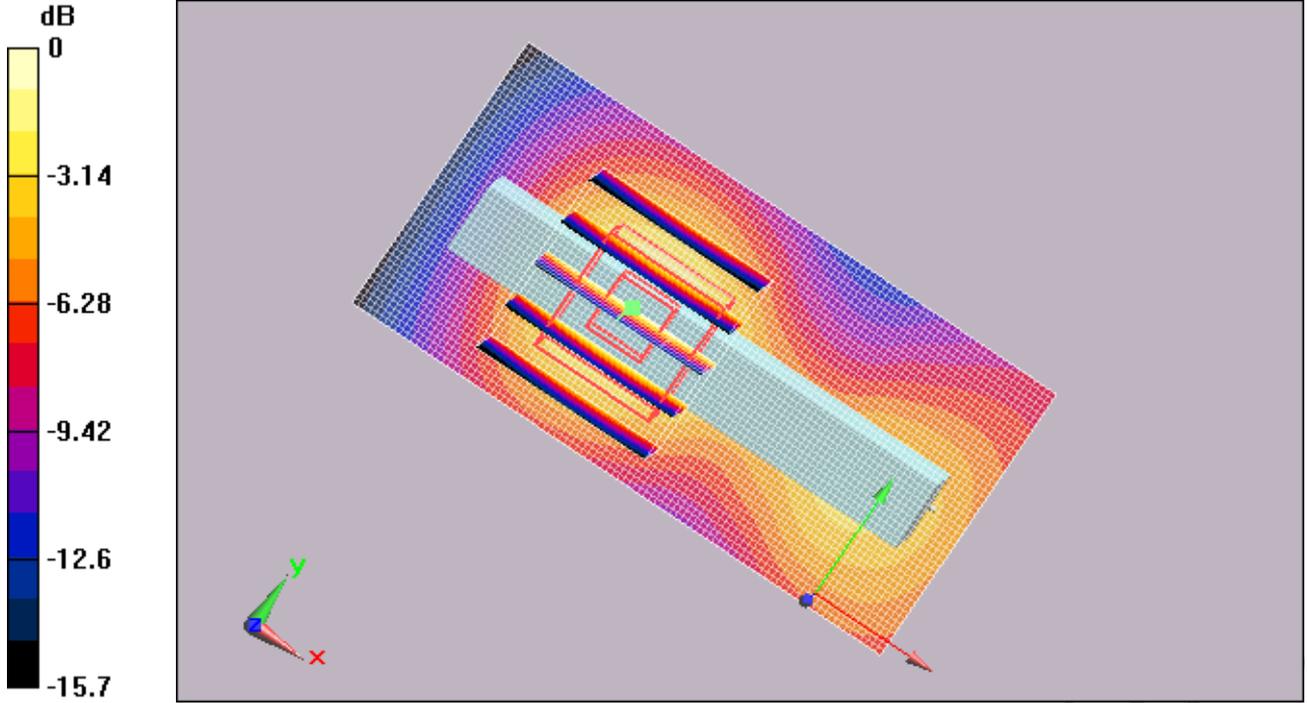
Peak SAR (extrapolated) = 0.724 W/kg

**SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.229 mW/g**

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

**high/Area Scan (51x101x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.508 mW/g



0 dB = 0.508mW/g

CITL Test Report

## B.15 Maximum body SAR of GPRS1900 band of face 4 to phantom with laptop

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_GPRS1900\_low\_side 4 cable vertical

DUT: ZTE#K3765;

Communication System: GPRS 1900 class10; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 51.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.520 mW/g; SAR(10 g) = 0.257 mW/g**

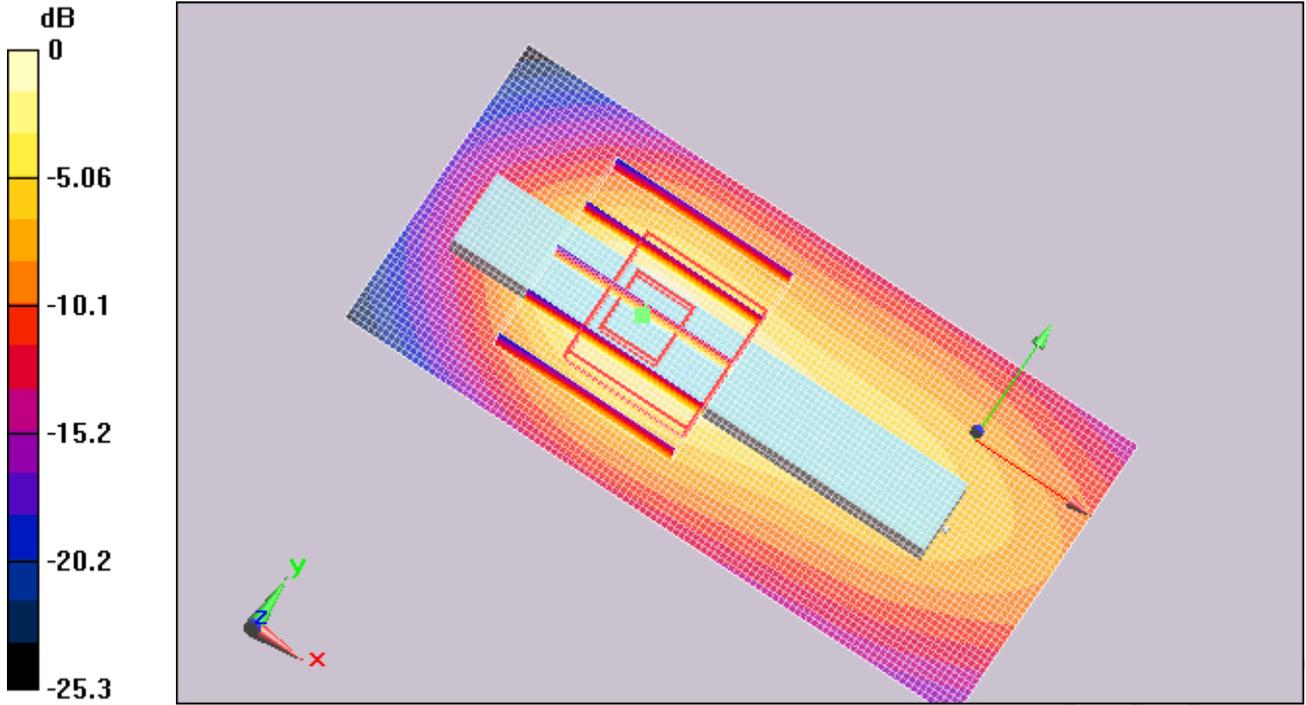
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.649 mW/g

**low/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.651 mW/g



0 dB = 0.651mW/g

CITL Test Report

## B.16 Maximum body SAR of GPRS1900 band of face 5 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_GPRS1900\_high\_side 5 cable top

DUT: ZTE#K3765;

Communication System: GPRS 1900 class10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.47 V/m; Power Drift = -0.064 dB

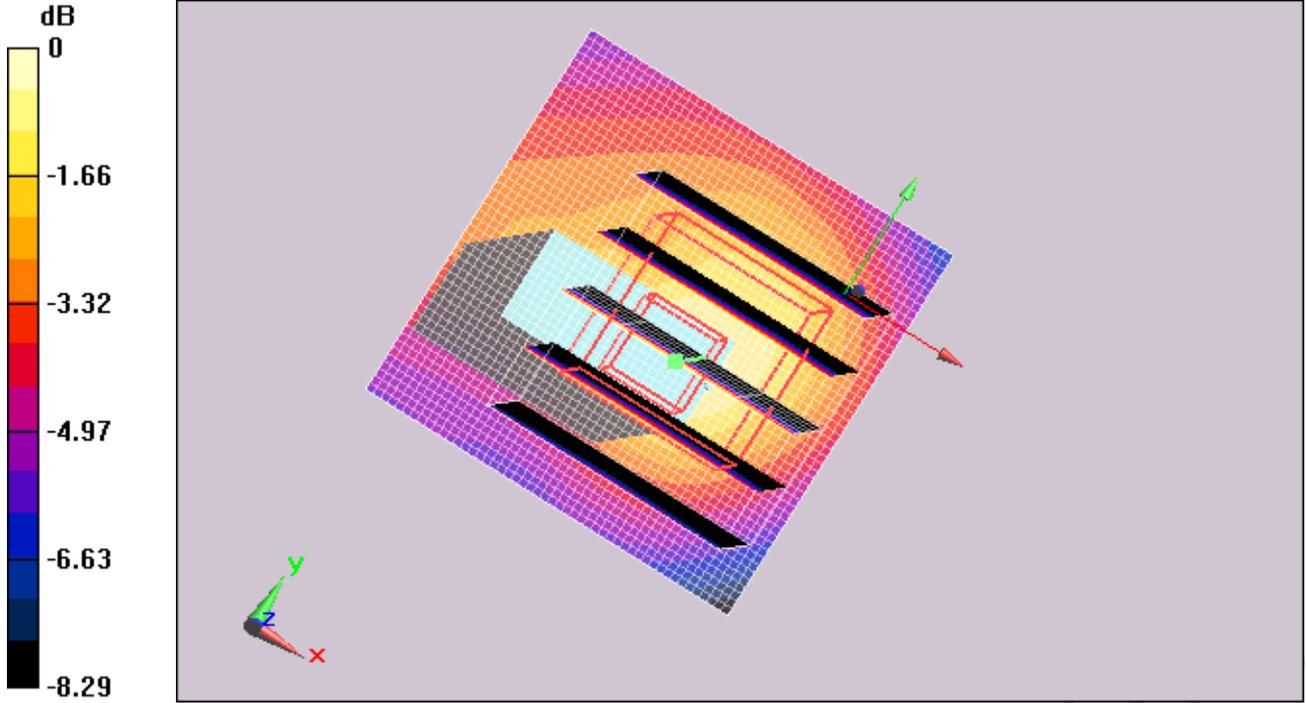
Peak SAR (extrapolated) = 0.135 W/kg

**SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.038 mW/g**

Maximum value of SAR (measured) = 0.086 mW/g

**high/Area Scan (51x51x1):** Measurement grid: dx=10mm, dy=10mm

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



0 dB = 0.087mW/g

CITL Test Report

## B.17 Maximum body SAR of EGPRS1900 band of face 1 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_EGPRS1900\_low\_side 1 cable

DUT: ZTE#K3765;

Communication System: EGPRS 1900 class12; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 51.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.1 V/m; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 1.79 W/kg

**SAR(1 g) = 0.966 mW/g; SAR(10 g) = 0.505 mW/g**

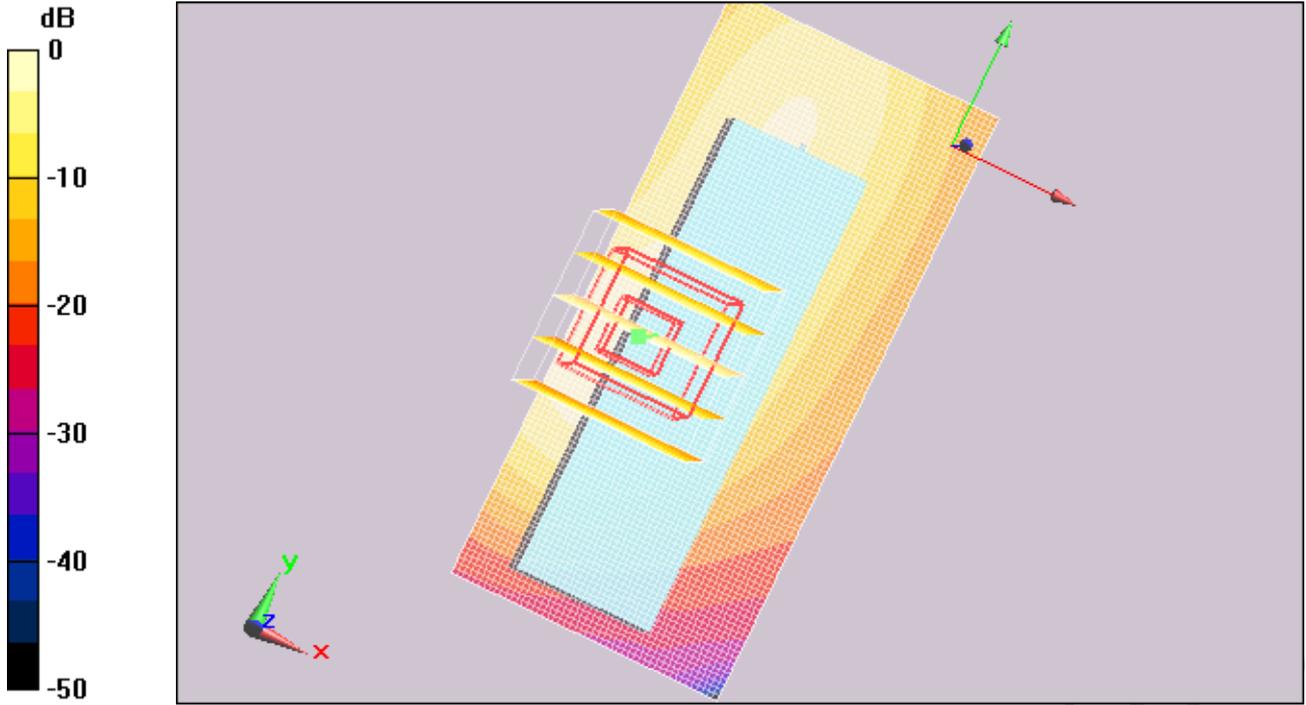
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.18 mW/g

**low/Area Scan (51x11x1):** Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 1.18 mW/g



0 dB = 1.18mW/g

TTL Test Report

## B.18 Maximum body SAR of EGPRS1900 band of face 3 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_EGPRS1900\_high\_side 3 laptop vertical

DUT: ZTE#K3765;

Communication System: EGPRS 1900 class12; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.163 dB

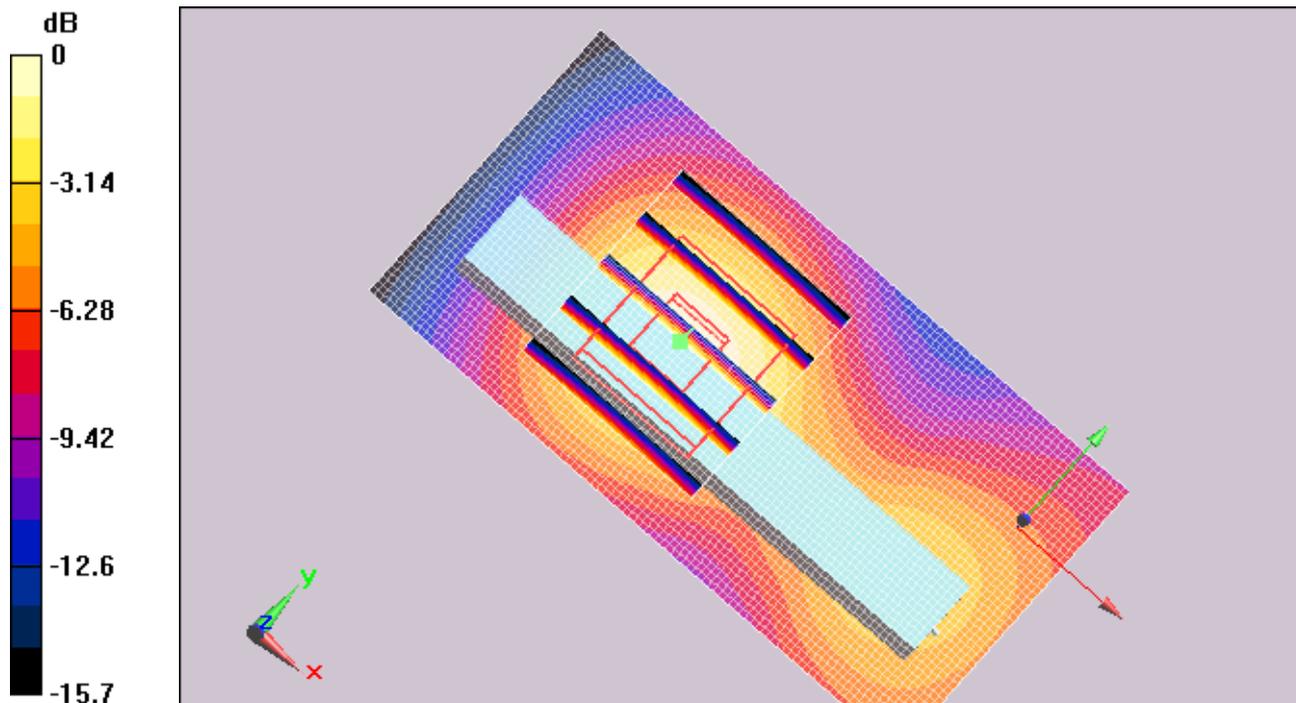
Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.324 mW/g**

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

**high/Area Scan (51x101x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.731 mW/g



0 dB = 0.731mW/g

CITL Test Report

## B.19 Maximum body SAR of EGPRS1900 band of face 4 to phantom with laptop

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_EGPRS1900\_side 4 cable vertical

DUT: ZTE#K3765;

Communication System: EGPRS 1900 class12; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 51.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.5 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.723 mW/g; SAR(10 g) = 0.359 mW/g**

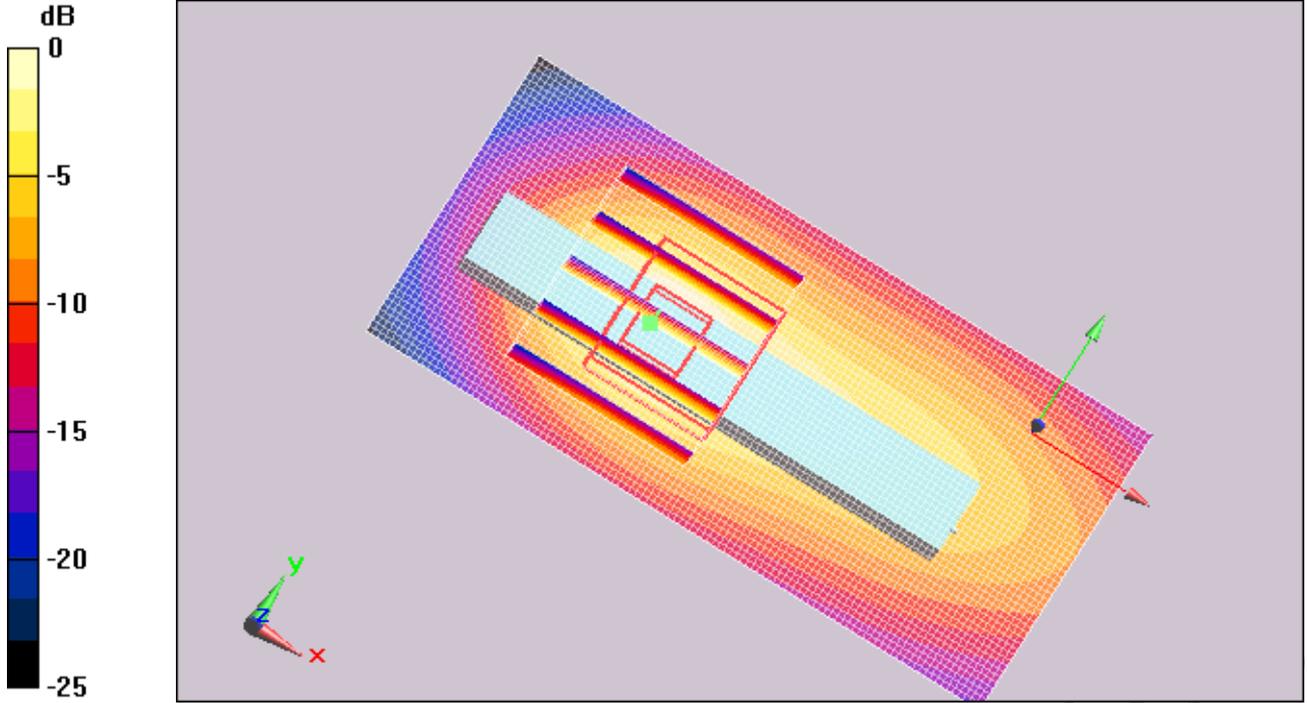
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.892 mW/g

**low/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.903 mW/g



0 dB = 0.903mW/g

CITL Test Report

## B.20 Maximum body SAR of EGPRS1900 band of face 5 to phantom with cable

Test Laboratory: CTTL

ZET#K3765\_FCC\_Body\_EGPRS1900\_high\_side 5 cable top

DUT: ZTE#K3765;

Communication System: EGPRS 1900 class12; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

**high/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.69 V/m; Power Drift = -0.00496 dB

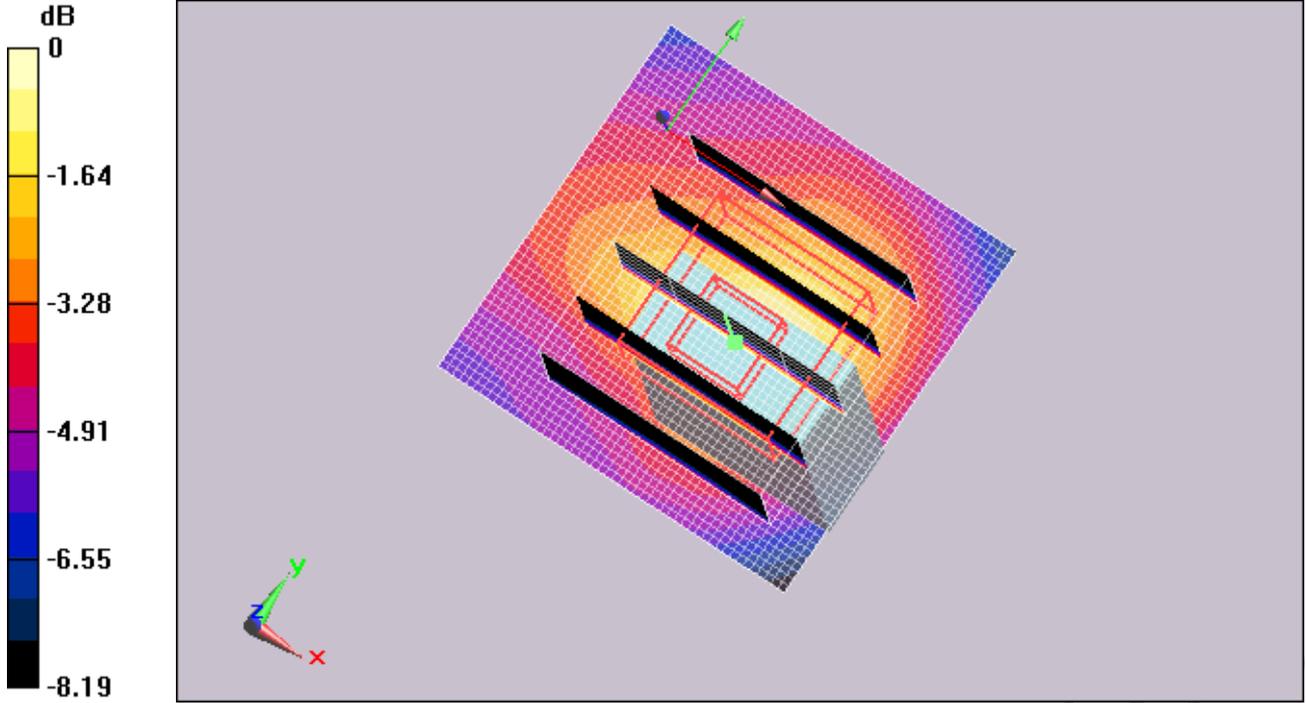
Peak SAR (extrapolated) = 0.225 W/kg

**SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.059 mW/g**

Maximum value of SAR (measured) = 0.144 mW/g

**high/Area Scan (51x51x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.137 mW/g



0 dB = 0.137mW/g

TTL Test Report

## ANNEX C System Performance Check Graphical Results

### C.1 Body 850 band

Test Laboratory: CTTL; Test time: 2009-05-15

SystemPerformanceCheck-body\_D835.da5

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:xxx**

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.999$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6, 6, 6); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

d=10mm, Pin=9.24 dBm/Area Scan (31x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.68 mW/g

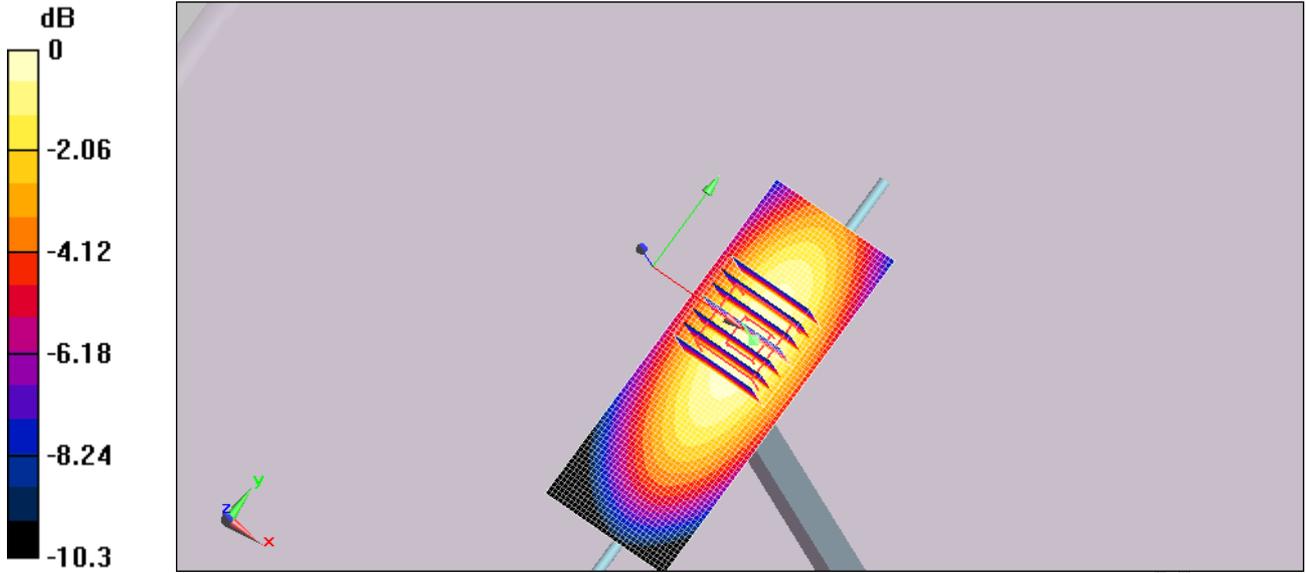
d=10mm, Pin=9.24 dBm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.6 V/m; Power Drift = -0.089 dB

Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.57 mW/g

Maximum value of SAR (measured) = 2.7 mW/g



0 dB = 2.7mW/g

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## C.2 Body 1900 band

Test Laboratory: CTTL; Test time: 2009-05-16

SystemPerformanceCheck-body\_D1900.da5

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:xxx**

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.53$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC)

DASY4 Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.62, 4.62, 4.62); Calibrated: 5/30/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn797; Calibrated: 4/17/2009
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

d=10mm, Pin=9.24 dBm/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.7 mW/g

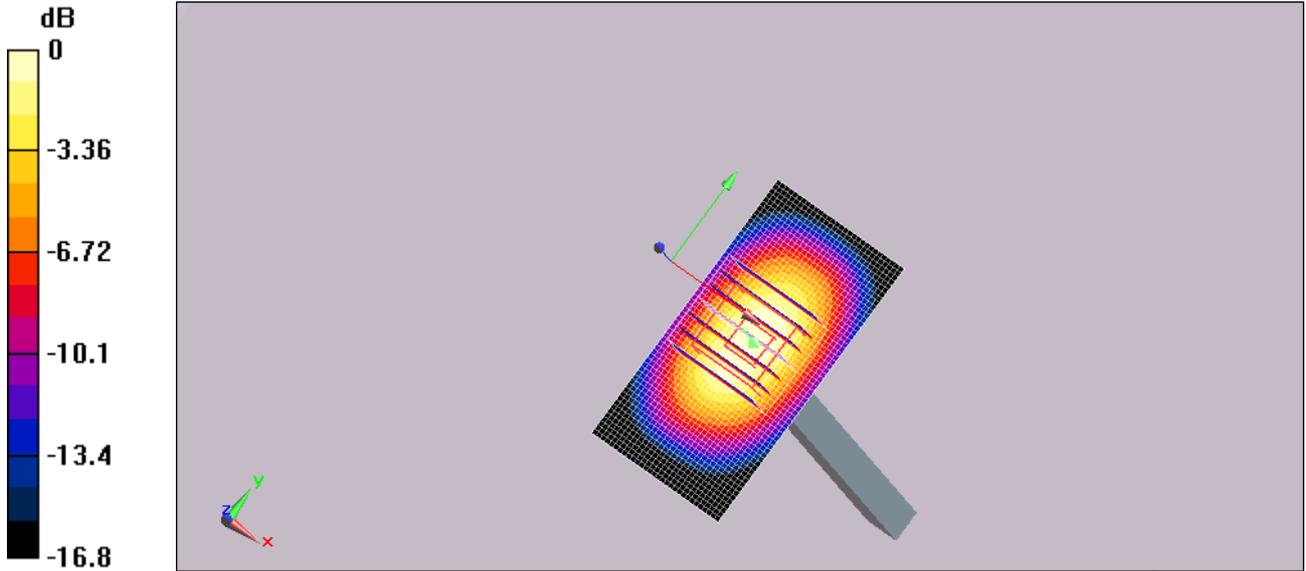
d=10mm, Pin=9.24 dBm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 9.15 mW/g; SAR(10 g) = 4.81 mW/g

Maximum value of SAR (measured) = 11.1 mW/g



0 dB = 11.1mW/g

TTL Test Report