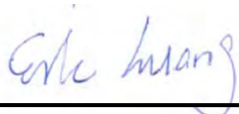


FCC SAR Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : Z667G
FCC ID : SRQ-Z667G
STANDARD : FCC 47 CFR Part 2 (2.1093)
ANSI/IEEE C95.1-1992
IEEE 1528-2003

The product was testing completed on Feb. 24, 2014. We, SPORTON INTERNATIONAL (XI'AN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (XI'AN) INC., the test report shall not be reproduced except in full.



Reviewed by: Eric Huang / Deputy Manager



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (XI'AN) INC.

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA431305	Rev. 01	Initial issue of report	Mar. 21, 2014

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **ZTE CORPORATION, DUT: WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone, Brand Name: ZTE, Model Name: Z667G** are as follows.

<Highest SAR Summary>

Exposure Position	Frequency Band	Reported 1g-SAR (W/kg)	Equipment Class	Highest Reported 1g-SAR (W/kg)
Head	GSM850	0.92	PCE	1.31
	GSM1900	0.38		
	WCDMA Band V	1.07		
	WCDMA Band IV	1.31		
	WCDMA Band II	1.07		
	WLAN 2.4GHz Band	0.13	DTS	0.13
Hotspot (Separation 1cm)	GSM850	1.33	PCE	1.43
	GSM1900	0.56		
	WCDMA Band V	1.22		
	WCDMA Band IV	1.24		
	WCDMA Band II	1.43		
	WLAN 2.4GHz Band	0.05	DTS	<0.10
Body-worn (Separation 1cm)	GSM850	1.33	PCE	1.43
	GSM1900	0.56		
	WCDMA Band V	1.22		
	WCDMA Band IV	1.30		
	WCDMA Band II	1.43		
	WLAN 2.4GHz Band	0.05	DTS	<0.10

<Highest Simultaneous transmission SAR>

Exposure Position	Frequency Band	Equipment Class	Highest Reported Simultaneous Transmission 1g-SAR (W/kg)
Body-worn (Separation 1cm)	WCDMA Band II	PCE	1.48
	WLAN 2.4GHz Band	DTS	
Body-worn (Separation 1cm)	WCDMA Band II	PCE	1.46
	Bluetooth	DSS	

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2. Administration Data

2.1 Testing Laboratory

Test Site	SPORTON INTERNATIONAL (XI'AN) INC.
Test Site Location	1F, Building A3, No. 39 Chuangye Rd., Xi'an Hi-tech Zone, Shanxi Province, P. R. C. TEL: +86-029-8860-8767 FAX: +86-029-8860-8791

2.2 Applicant

Company Name	ZTE CORPORATION
Address	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

2.3 Manufacturer

Company Name	ZTE CORPORATION
Address	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

2.4 Application Details

Date of Start during the Test	Feb. 19, 2014
Date of End during the Test	Feb. 24, 2014

3. General Information

3.1 Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT	WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z667G
FCC ID	SRQ-Z667G
IMEI Code	355142010105451
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	• GSM/GPRS/EGPRS • RMC/AMR 12.2Kbps Rel 99 • HSDPA Rel 7, Cat14 • HSUPA Rel 6, Cat6 • HSPA +Rel 7, Cat14(Downlink only) • 802.11b/g/n HT20 • Bluetooth 3.0+EDR, Bluetooth 4.0 LE
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna
HW Version	wxxA
SW Version	Z667GV1.0.0B02
Transfer Mode Category	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description. 2. 802.11n- HT40 is not supported in 2.4GHz frequency band. 3. This device supports GPRS/EGPRS mode up to class10 and does not support DTM operation. 4. This device supported VoIP in GPRS/EGPRS, WCDMA (e.g. 3rd part VoIP).	

3.2 Maximum RF output power among production units

Burst Average Power (dBm)		
Mode / Band	GSM850	GSM1900
GSM (GMSK, 1 Tx slot)	33	31
GPRS (GMSK, 1 Tx slot)	33	31
GPRS (GMSK, 2 Tx slots)	30.5	28
EDGE (8PSK, 1 Tx slot)	27	26
EDGE (8PSK, 2 Tx slots)	24	23

Maximum Target Power for Production Unit			
Mode / Band	WCDMA Band V	WCDMA Band II	WCDMA Band IV
AMR	23.5	23.5	24
RMC 12.2K	23.5	23.5	24
HSDPA Subtest-1	22	23	23
HSDPA Subtest-2	22	23	23
HSDPA Subtest-3	22	22	23
HSDPA Subtest-4	22	22	23
HSUPA Subtest-1	22	22	23
HSUPA Subtest-2	22	22	22
HSUPA Subtest-3	21	21	22
HSUPA Subtest-4	22	22	22
HSUPA Subtest-5	22	22	22

Average Power (dBm)			
Mode / Band	IEEE 802.11b/g/n		
	11b	11g	11n-HT20
WLAN 2.4GHz Band	14	12.5	11.5

Average Power (dBm)				
Mode / Band	1Mbps (GFSK)	2Mbps ($\pi/4$ -DQPSK)	3Mbps (8-DPSK)	BT4.0 LE (GFSK)
Bluetooth	2	0.5	0.5	1

3.3 Applied Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2003
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- FCC KDB 865664 D02 SAR Reporting v01r01
- FCC KDB 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB 648474 D04 Handset SAR v01r02
- FCC KDB 248227 D01 SAR meas for 802.11abg v01r02
- FCC KDB 941225 D01 SAR test for 3G devices v02
- FCC KDB 941225 D02 HSPA and 1x Advanced v02r02
- FCC KDB 941225 D03 SAR Test Reduction GSM GPRS EDGE v01
- FCC KDB 941225 D06 Hotspot Mode SAR v01r01

3.4 Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

3.5 Test Conditions

3.5.1 Ambient Condition

Ambient Temperature	20 to 24 °C
Humidity	< 60 %

3.5.2 Test Configuration

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator was established by air link. The distance between the EUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT.

During WLAN SAR testing EUT is configured with the WLAN continuous TX tool, and the transmission duty factor was monitored on the spectrum analyzer with zero-span setting

Duty factor observed as below:

802.11b, 1Mbps: 97.63%

802.11g, 6Mbps: 87.18%

802.11n-HT20, MCS0: 86.62%

For WLAN SAR testing, WLAN engineering testing software installed on the EUT can provide continuous transmitting RF signal.

4. Specific Absorption Rate (SAR)

4.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

4.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

5. SAR Measurement System

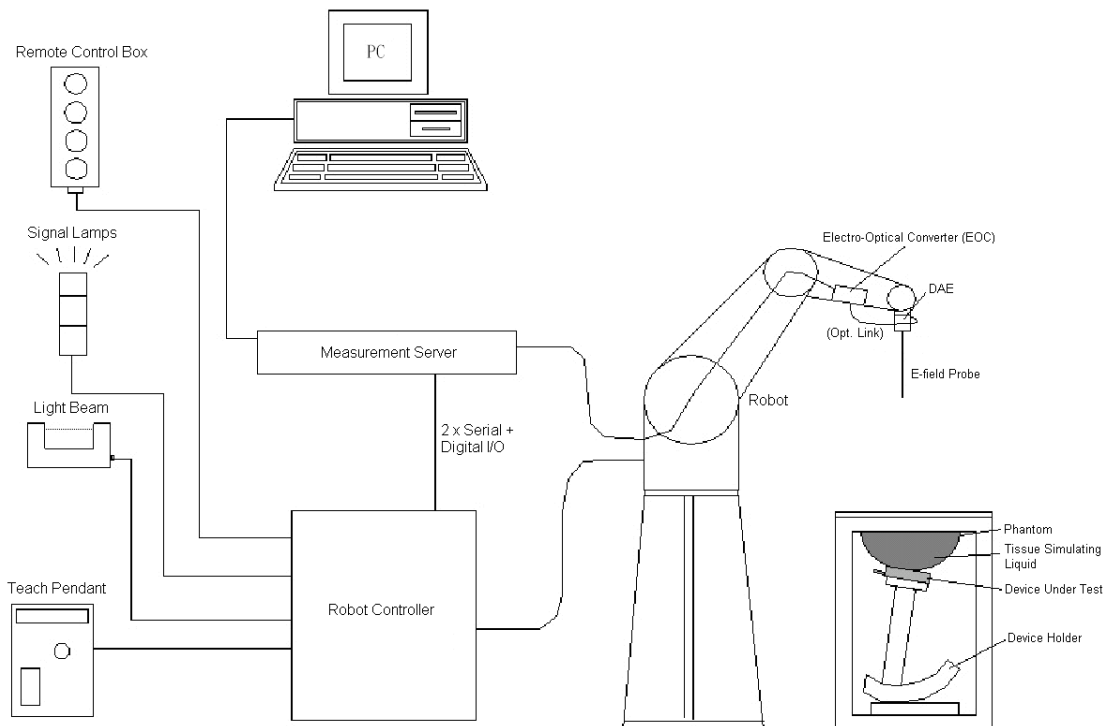


Fig 5.1 SPEAG DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Component details are described in in the following sub-sections.

5.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

5.1.1 E-Field Probe Specification

<EX3DV4 Probe>

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

Fig 5.2 Photo of EX3DV4

5.1.2 E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix C of this report.

5.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (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 measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.3 Photo of DAE

5.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX90XL) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



Fig 5.4 Photo of DASY5

5.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Fig 5.5 Photo of Server for DASY5

5.5 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

Fig 5.6 Photo of SAM Phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

5.6 Device Holder

<Device Holder for SAM Twin Phantom>

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Fig 5.7 Device Holder

5.7 Data Storage and Evaluation

5.7.1 Data Storage

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

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

5.7.2 Data Evaluation

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

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

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

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as :

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

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

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

$$\text{E-field Probes : } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-field Probes : } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

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

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

$$E_{\text{tot}} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

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

$$\text{SAR} = E_{\text{tot}}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

5.8 Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d151	Mar. 25, 2013	Mar. 24, 2014
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 27, 2013	Mar. 26, 2014
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Mar. 27, 2013	Mar. 26, 2014
SPEAG	2450MHz System Validation Kit	D2450V2	908	Mar. 26, 2013	Mar. 25, 2014
SPEAG	Data Acquisition Electronics	DAE4	1358	Apr. 08, 2013	Apr. 07, 2014
SPEAG	Dosimetric E-Field Probe	EX3DV4	3911	Apr.11, 2013	Apr.10, 2014
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1753	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1754	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Agilent	Wireless Communication Test Set	E5515C	MY52102600	Dec. 30, 2013	Dec. 29, 2014
Agilent	ENA Series Network Analyzer	E5071C	MY46111157	Apr. 22, 2013	Apr. 21, 2014
Agilent	Dielectric Probe Kit	85070E	MY44300751	NCR	NCR
Anritsu	Power Meter	ML2495A	1218010	Mar. 28, 2013	Mar. 27, 2014
Anritsu	Power Sensor	MA2411B	1207253	Mar. 28, 2013	Mar. 27, 2014
R&S	Spectrum Analyzer	FSP7	101230	Aug.14, 2012	Aug.13, 2014
Agilent	Dual Directional Coupler	778D	50422	Note 2	
Woken	Attenuator 1	WK0602-XX	N/A	Note 2	
PE	Attenuator 2	PE7005-10	N/A	Note 2	
PE	Attenuator 3	PE7005- 3	N/A	Note 2	
AR	Power Amplifier	5S1G4M2	328767	Note 3	

Table 5.1 Test Equipment List

Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.
2. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
3. In system check we need to monitor the level on the power meter, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1W input power according to the ratio of 1W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the power meter is critical and we do have calibration for it
4. Attenuator 1 insertion loss is calibrated by the network Analyzer, which the calibration is valid, before system check.

6. Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.2.

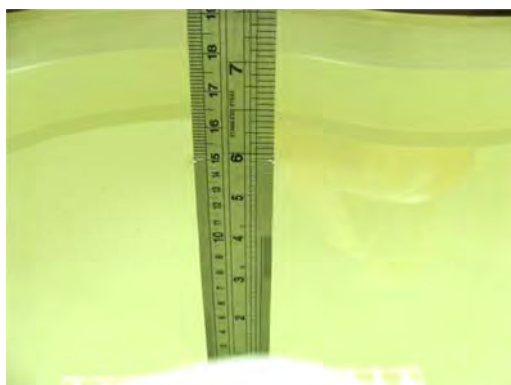


Fig 6.1 Photo of Liquid Height for Head SAR



Fig 6.2 Photo of Liquid Height for Body SAR

The following table gives the recipes for tissue simulating liquid.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
For Head								
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
For Body								
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7

Table 6.1 Recipes of Tissue Simulating Liquid

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85070E Dielectric Probe Kit and an Agilent Network Analyzer.

The following table shows the measuring results for simulating liquid.

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
835	Head	22.7	0.902	40.749	0.90	41.50	0.22	-1.81	±5	2014/2/21
1750	Head	22.7	1.374	38.860	1.37	40.1	0.29	-3.09	±5	2014/2/24
1900	Head	22.6	1.412	39.311	1.40	40.0	0.86	-1.72	±5	2014/2/21
2450	Head	22.6	1.809	37.604	1.80	39.20	0.50	-4.07	±5	2014/2/21
835	Body	22.4	0.974	54.266	0.97	55.2	0.41	-1.69	±5	2014/2/20
1750	Body	22.6	1.539	54.578	1.49	53.40	3.29	2.21	±5	2014/2/24
1900	Body	22.3	1.525	54.504	1.52	53.3	0.33	2.26	±5	2014/2/19
2450	Body	22.7	1.940	53.374	1.95	52.70	-0.51	1.28	±5	2014/2/21

Table 6.2 Measuring Results for Simulating Liquid

7. System Verification Procedures

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

7.1 Purpose of System Performance check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

7.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:

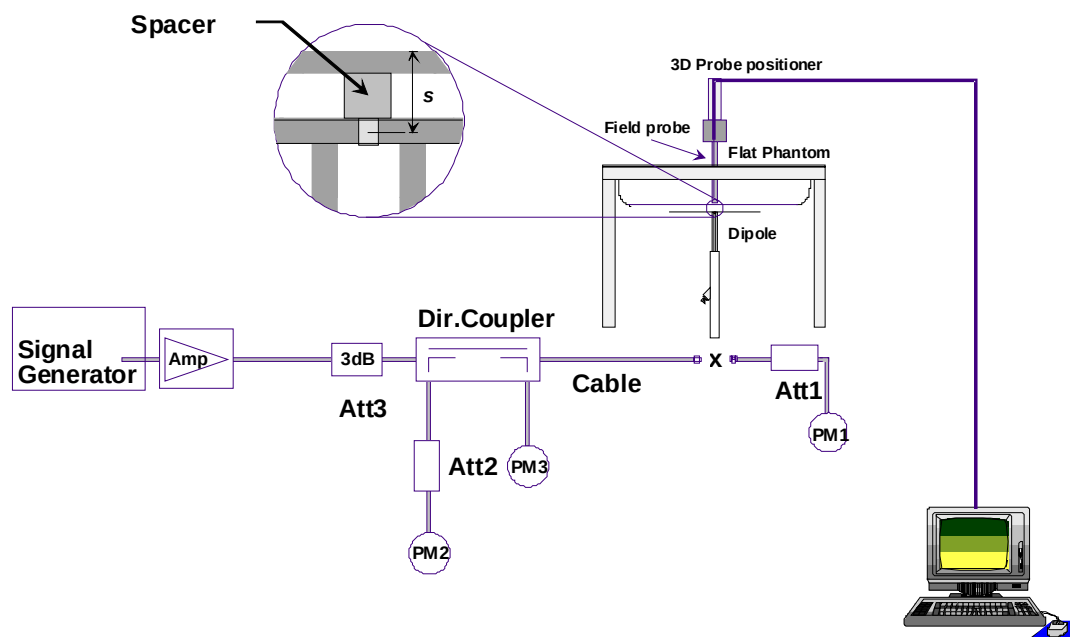


Fig 7.1 System Setup for System Evaluation

1. Signal Generator
2. Amplifier
3. Directional Coupler
4. Power Meter
5. Calibrated Dipole



Fig 7.2 Photo of Dipole Setup

7.3 SAR System Verification Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Table 7.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured SAR (W/kg)	Targeted SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)
2014/2/21	835	Head	250	4d151	3911	1358	2.28	9.49	9.12	-3.90
2014/2/24	1750	Head	250	1090	3911	1358	9.03	36.90	36.12	-2.11
2014/2/21	1900	Head	250	5d170	3911	1358	9.86	40.20	39.44	-1.89
2014/2/21	2450	Head	250	908	3911	1358	13.30	54.00	53.2	-1.48
2014/2/20	835	Body	250	4d151	3911	1358	2.35	9.43	9.4	-0.32
2014/2/24	1750	Body	250	1090	3911	1358	9.15	38.10	36.6	-3.94
2014/2/19	1900	Body	250	5d170	3911	1358	9.97	41.20	39.88	-3.20
2014/2/21	2450	Body	250	908	3911	1358	12.40	50.40	49.6	-1.59

Table 7.1 Target and Measurement SAR after Normalized

8. EUT Testing Position

8.1 Define two imaginary lines on the handset

- The vertical centerline passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

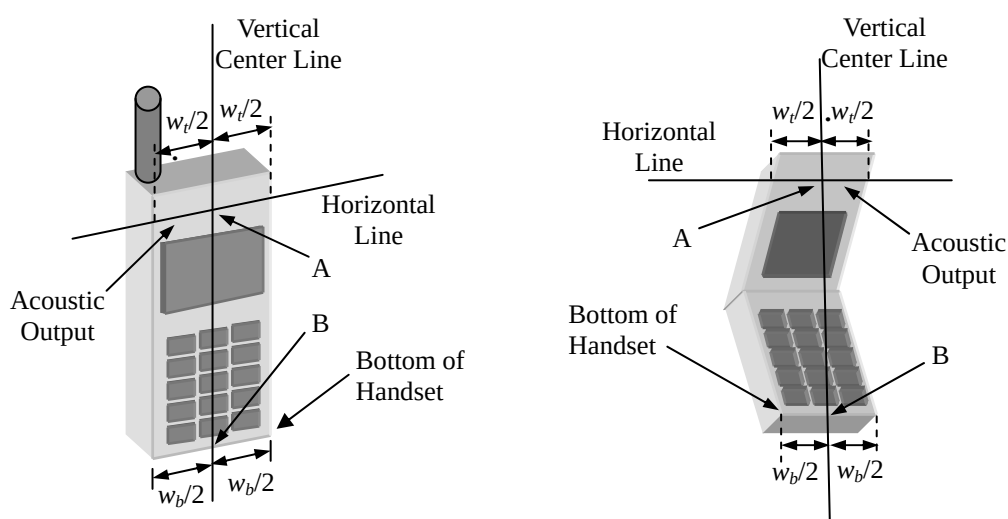


Fig 8.1 Illustration for Handset Vertical and Horizontal Reference Lines

8.2 Cheek Position

- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig. 8.2).

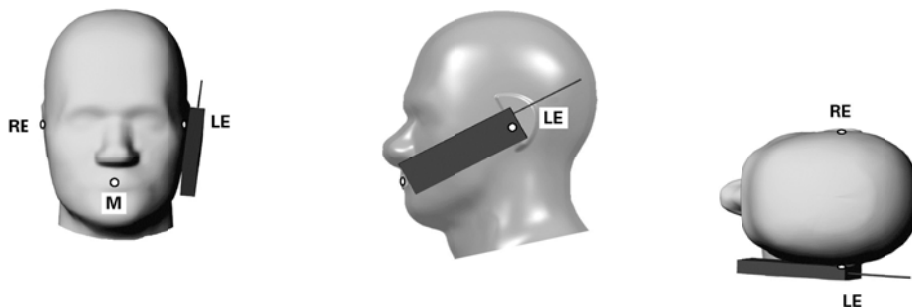


Fig 8.2 Illustration for Cheek Position

8.3 Tilted Position

- To position the device in the “cheek” position described above.
- While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig. 8.3).

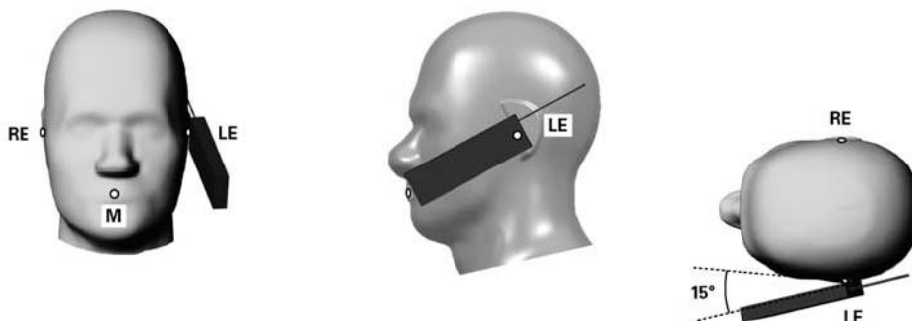


Fig 8.3 Illustration for Tilted Position

8.4 Body Worn Position

- (a) To position the device parallel to the phantom surface with either keypad up or down.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 1 cm.

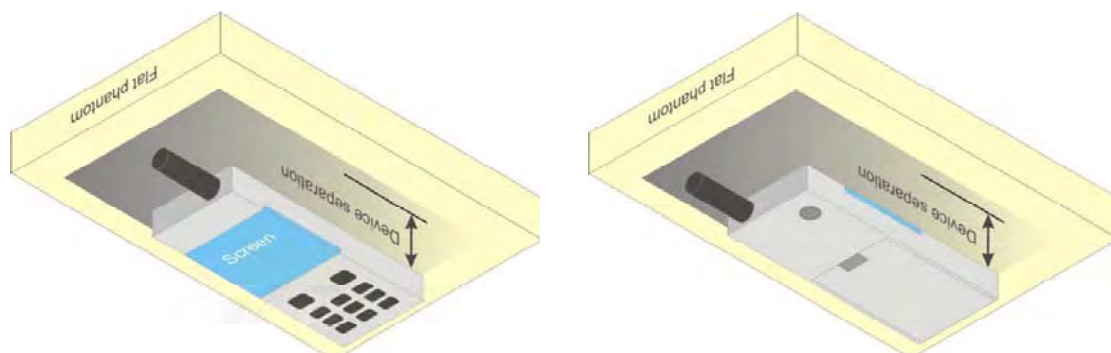


Fig 8.4 Illustration for Body Worn Position

8.5 Hotspot Position

- (a) To position the device parallel to the phantom surface with all sides and either keypad up or down.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device and the flat phantom to 1.0cm.

<EUT Setup Photos>

Please refer to Appendix D for the test setup photos.

9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

9.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

9.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

9.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r03 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \delta \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

9.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

9.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

9.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

10. Bluetooth Exclusions Applied

Mode Band	Average power(dBm)	
	Bluetooth v3.0+EDR	Bluetooth v4.0 LE
2.4GHz Bluetooth	2	1

Note:

- Per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
 - If the distance of the antenna to the user is < 5 mm, 5mm is used to determine SAR exclusion threshold

Bluetooth Max Power (dBm)	mW	Test Distance (mm)	Frequency (GHz)	exclusion thresholds
2	1.58	0	2.48	0.50

- Per KDB 447498 D01v05r02 exclusion thresholds is $0.50 < 3$, RF exposure evaluation is not required.

11. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

Note:

1. Per KDB 447498 D01v05r02, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. The EUT do not support DTM function.
3. According to October 2013TCB Workshop, for GSM / GPRS, the number of time slots to test for SAR should correspond to the highest source-based time-averaged maximum output power configuration; When time slots with equivalent maximum average output power specifications, including tolerance, if the measured maximum output power levels are within 0.25 dB of each other, test the configuration with the most number of time slots.
4. For head/body-worn/hotspot SAR testing, the EUT was set in GPRS 2 Tx slots for GSM850 and GSM1900 band due to its highest frame-average power.

Band GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM (GMSK, 1 Tx slot)	32.61	32.80	32.93	33	23.61	23.80	23.93	24
GPRS (GMSK, 1 Tx slot)	32.60	32.76	32.90	33	23.60	23.76	23.90	24
GPRS (GMSK, 2 Tx slots)	29.94	30.01	30.16	30.5	23.94	24.01	24.16	24.5
EDGE (8PSK, 1 Tx slot)	26.40	26.53	26.63	27	17.40	17.53	17.63	18
EDGE (8PSK, 2 Tx slots)	23.41	23.48	23.51	24	17.41	17.48	17.51	18
Band GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM (GMSK, 1 Tx slot)	30.42	30.25	30.37	31	21.42	21.25	21.37	22
GPRS (GMSK, 1 Tx slot)	30.40	30.20	30.31	31	21.40	21.20	21.31	22
GPRS (GMSK, 2 Tx slots)	27.43	27.15	27.19	28	21.43	21.15	21.19	22
EDGE (8PSK, 1 Tx slot)	25.43	25.24	25.33	26	16.43	16.24	16.33	17
EDGE (8PSK, 2 Tx slots)	22.39	22.13	22.21	23	16.39	16.13	16.21	17

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

<WCDMA Conducted Power>

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

Setup Configuration

<WCDMA Conducted Power>
Note:

1. Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1 V9.1.0 to Rel. 6 HSPA.
2. Per KDB 941225 D01v02, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2kbps can be excluded.
3. By design, AMR, HSDPA/HSUPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.
4. It is expected by the manufacturer that MPR for some HSDPA/HSUPA subtests may differ from the specification of 3GPP, according to the chipset implementation in this model. The implementation and expected deviation are detailed in tune-up procedure exhibit.
5. Per KDB 941225 D02v02r02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA output power is < 0.25dB higher than RMC, or reported SAR with RMC 12.2kbps setting is $\leq 1.2\text{W/kg}$, HSDPA/HSUPA SAR evaluation can be excluded.

Band		WCDMA Band V				WCDMA Band II			
Tx Channel		4132	4182	4233	Tune-up Limit (dBm)	9262	9400	9538	Tune-up Limit (dBm)
Rx Channel		4357	4407	4458		9662	9800	9938	
Frequency (MHz)		826.4	836.4	846.6		1852.4	1880	1907.6	
3GPP Rel 99	AMR	22.86	22.89	22.75	23.5	23.14	23.01	22.98	23.5
3GPP Rel 99	RMC 12.2Kbps	22.87	22.91	22.78	23.5	23.16	23.05	23.04	23.5
3GPP Rel 6	HSDPA Subtest-1	21.98	21.99	21.84	22	22.21	22.03	21.97	23
3GPP Rel 6	HSDPA Subtest-2	21.85	21.87	21.83	22	22.20	22.15	22.07	23
3GPP Rel 6	HSDPA Subtest-3	21.38	21.44	21.29	22	21.76	21.67	21.61	22
3GPP Rel 6	HSDPA Subtest-4	21.33	21.49	21.34	22	21.70	21.67	21.66	22
3GPP Rel 6	HSUPA Subtest-1	21.19	21.36	20.98	22	21.45	20.41	20.03	22
3GPP Rel 6	HSUPA Subtest-2	20.74	21.05	20.84	22	21.19	20.89	20.61	22
3GPP Rel 6	HSUPA Subtest-3	20.32	20.54	20.15	21	20.82	20.57	20.05	21
3GPP Rel 6	HSUPA Subtest-4	21.46	21.88	21.24	22	21.64	21.50	21.28	22
3GPP Rel 6	HSUPA Subtest-5	21.49	21.63	21.33	22	21.75	21.68	21.52	22
3GPP MPR specification	MPR result	WCDMA Band V			MPR Target	WCDMA Band II			MPR Target
0	HSDPA Subtest-1	0.00	0.00	0.00	0	0.00	0.00	0.00	0
0	HSDPA Subtest-2	0.13	0.12	0.01	0	0.01	-0.12	-0.10	0
≤ 0.5	HSDPA Subtest-3	0.60	0.55	0.55	0.5	0.45	0.36	0.36	0.5
≤ 0.5	HSDPA Subtest-4	0.65	0.50	0.50	0.5	0.51	0.36	0.31	0.5
≤ 0	HSUPA Subtest-1	0.30	0.27	0.35	0	0.30	1.27	1.49	0
≤ 2	HSUPA Subtest-2	0.75	0.58	0.49	2	0.56	0.79	0.91	2
≤ 1	HSUPA Subtest-3	1.17	1.09	1.18	1	0.93	1.11	1.47	1
≤ 2	HSUPA Subtest-4	0.03	-0.25	0.09	2	0.11	0.18	0.24	2
≤ 0	HSUPA Subtest-5	0.00	0.00	0.00	0	0.00	0.00	0.00	0

Band		WCDMA Band IV			
Tx Channel		1312	1413	1513	Tune-up Limit (dBm)
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR	23.68	23.20	23.29	24
3GPP Rel 99	RMC 12.2Kbps	23.75	23.25	23.32	24
3GPP Rel 6	HSDPA Subtest-1	22.62	22.26	22.30	23
3GPP Rel 6	HSDPA Subtest-2	22.55	22.30	22.38	23
3GPP Rel 6	HSDPA Subtest-3	22.01	21.75	21.84	23
3GPP Rel 6	HSDPA Subtest-4	22.10	21.82	21.83	23
3GPP Rel 6	HSUPA Subtest-1	22.07	21.83	22.05	23
3GPP Rel 6	HSUPA Subtest-2	21.44	20.99	21.02	22
3GPP Rel 6	HSUPA Subtest-3	21.62	21.21	21.36	22
3GPP Rel 6	HSUPA Subtest-4	21.92	21.23	21.41	22
3GPP Rel 6	HSUPA Subtest-5	21.47	21.38	21.39	22
3GPP MPR specification	MPR result	WCDMA Band IV			MPR Target
0	HSDPA Subtest-1	0.00	0.00	0.00	0
0	HSDPA Subtest-2	0.07	-0.04	-0.08	0
≤0.5	HSDPA Subtest-3	0.61	0.51	0.46	0.5
≤0.5	HSDPA Subtest-4	0.52	0.44	0.47	0.5
≤0	HSUPA Subtest-1	-0.60	-0.45	-0.66	0
≤2	HSUPA Subtest-2	0.03	0.39	0.37	2
≤1	HSUPA Subtest-3	-0.15	0.17	0.03	1
≤2	HSUPA Subtest-4	-0.45	0.15	-0.02	2
≤0	HSUPA Subtest-5	0.00	0.00	0.00	0

<WLAN 2.4GHz mode Conducted Power>

802.11b Average Power (dBm)					
Channel	Frequency (MHz)	Data Rate (bps)			
		1M bps	2M bps	5.5M bps	11M bps
CH 01	2412	13.33	13.31	13.39	13.53
CH 06	2437	13.61	13.45	13.55	13.57
CH 11	2462	13.43	13.36	13.33	13.44

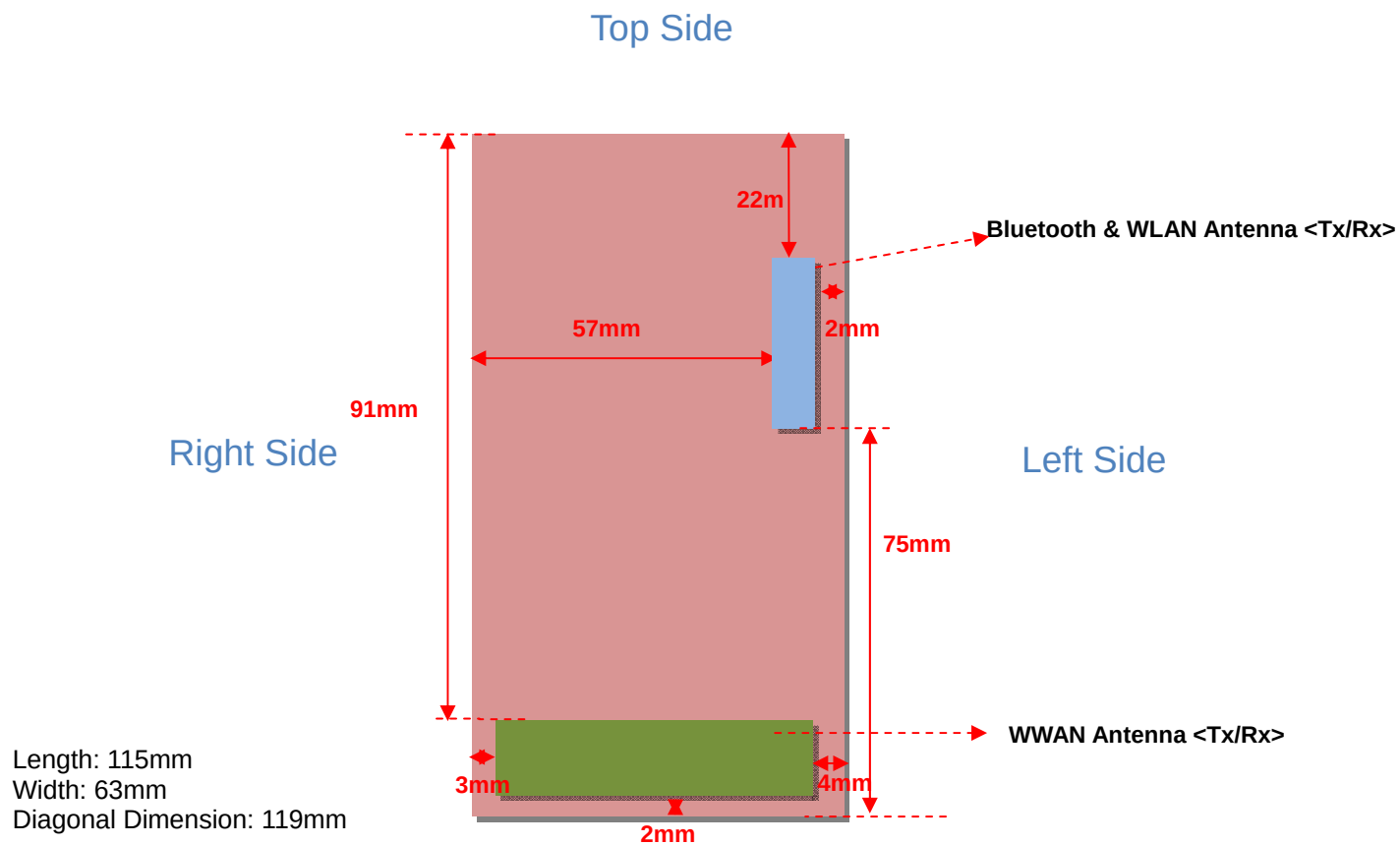
802.11g Average Power (dBm)									
Channel	Frequency (MHz)	Data Rate (bps)							
		6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
CH 01	2412	11.88	11.84	11.72	11.92	11.79	11.88	11.84	11.91
CH 06	2437	12.12	12.08	12.02	12.06	11.94	12.09	12.07	12.04
CH 11	2462	11.91	11.87	11.81	11.86	11.73	11.95	11.80	11.94

802.11n-HT20 Average Power (dBm)									
Channel	Frequency (MHz)	MCS Index							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412	10.71	11.11	11.12	11.18	11.04	11.12	11.24	11.23
CH 06	2437	11.25	11.01	11.17	11.20	11.09	11.21	11.11	11.16
CH 11	2462	10.96	10.69	10.97	10.94	10.90	11.05	11.01	10.99

Note:

1. Per KDB 248227 D01 v01r02, choose the highest output power channel to test SAR and determine further SAR exclusion
2. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate.
3. Apply the test exclusion rule in KDB 248227 D01 v01r02 11g and 11n-HT20 output power is less than 1/4dB higher than 11b mode, thus the SAR can be excluded.

12. Antenna Location



Back View

Bottom Side

Antennas	Wireless Interface
WWAN Main Antenna (Tx / Rx)	GSM850 GSM1900 WCDMA Band V WCDMA Band IV WCDMA Band II
BT&WLAN Antenna (Tx / Rx)	WLAN 2.4GHz Bluetooth

Distance of the Antenna to the EUT surface/edge						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Main	≤ 25mm	≤ 25mm	91mm	≤ 25mm	≤ 25mm	≤ 25mm
BT&WLAN	≤ 25mm	≤ 25mm	≤ 25mm	75mm	57mm	≤ 25mm

Positions for SAR tests; Hotspot mode						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Main	Yes	Yes	No	Yes	Yes	Yes
BT&WLAN	Yes	Yes	Yes	No	No	Yes

Note:

1. Head/Body-worn/Hotspot mode SAR assessments are required.
2. Referring to KDB 941225 D06 v01r01, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge



13. SAR Test Results

Note:

1. Per KDB 447498 D01v05r02, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
2. Per KDB 447498 D01v05r02, for each exposure position, if the highest output channel reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
3. According to October 2013TCB Workshop, for GSM / GPRS, the number of time slots to test for SAR should correspond to the highest source-based time-averaged maximum output power configuration; When time slots with equivalent maximum average output power specifications, including tolerance, if the measured maximum output power levels are within 0.25 dB of each other, test the configuration with the most number of time slots.
4. For Hotspot SAR testing, per KDB 941225 D06v01r01, for EUT dimension $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 1cm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
5. Per KDB648474 D04v02, When the reported SAR for a body-worn accessory for GSM Voice, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.
6. Though per KDB 648474 D04v02, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, the SAR testing with a headset connected to the handset is not required, but considered the simultaneous SAR for body-worn, we still perform the WLAN SAR with headset mode.
7. Per KDB 941225 D02v02r02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA, output power is $< 0.25\text{dB}$ higher than RMC, or reported SAR with RMC 12.2kbps setting is ≤ 1.2 W/kg, HSDPA/HSUPA SAR evaluation can be excluded.

13.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
58	GSM 850	GPRS (GMSK 2 Tx slot)	Right Cheek	251	848.8	30.16	30.5	1.081	0.01	0.84	0.908
59	GSM 850	GPRS (GMSK 2 Tx slot)	Right Tilted	251	848.8	30.16	30.5	1.081	-0.03	0.536	0.580
60	GSM 850	GPRS (GMSK 2 Tx slot)	Left Cheek	251	848.8	30.16	30.5	1.081	0.07	0.849	0.918
61	GSM 850	GPRS (GMSK 2 Tx slot)	Left Tilted	251	848.8	30.16	30.5	1.081	-0.01	0.535	0.579
62	GSM 850	GPRS (GMSK 2 Tx slot)	Right Cheek	128	824.2	29.94	30.5	1.138	-0.07	0.681	0.775
63	GSM 850	GPRS (GMSK 2 Tx slot)	Right Cheek	189	836.4	30.01	30.5	1.119	-0.07	0.792	0.887
64	GSM 850	GPRS (GMSK 2 Tx slot)	Left Cheek	128	824.2	29.94	30.5	1.138	0.04	0.699	0.795
65	GSM 850	GPRS (GMSK 2 Tx slot)	Left Cheek	189	836.4	30.01	30.5	1.119	0.05	0.801	0.897
46	GSM1900	GPRS (GMSK 2 Tx slot)	Right Cheek	512	1850.2	27.43	28	1.140	0.06	0.311	0.355
47	GSM1900	GPRS (GMSK 2 Tx slot)	Right Tilted	512	1850.2	27.43	28	1.140	-0.02	0.116	0.132
48	GSM1900	GPRS (GMSK 2 Tx slot)	Left Cheek	512	1850.2	27.43	28	1.140	0.03	0.335	0.382
49	GSM1900	GPRS (GMSK 2 Tx slot)	Left Tilted	512	1850.2	27.43	28	1.140	0.02	0.117	0.133

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
66	WCDMA Band V	RMC12.2K	Right Cheek	4182	836.4	22.91	23.5	1.146	-0.04	0.883	1.011
67	WCDMA Band V	RMC12.2K	Right Tilted	4182	836.4	22.91	23.5	1.146	-0.03	0.643	0.737
68	WCDMA Band V	RMC12.2K	Left Cheek	4182	836.4	22.91	23.5	1.146	0.02	0.933	1.069
69	WCDMA Band V	RMC12.2K	Left Tilted	4182	836.4	22.91	23.5	1.146	-0.03	0.654	0.749
70	WCDMA Band V	RMC12.2K	Right Cheek	4132	826.4	22.87	23.5	1.156	0.06	0.6	0.694
71	WCDMA Band V	RMC12.2K	Right Cheek	4233	846.6	22.78	23.5	1.180	-0.02	0.779	0.919
72	WCDMA Band V	RMC12.2K	Left Cheek	4132	826.4	22.87	23.5	1.156	0.06	0.633	0.732
73	WCDMA Band V	RMC12.2K	Left Cheek	4233	846.6	22.78	23.5	1.180	0.07	0.791	0.934
94	WCDMA Band IV	RMC12.2K	Right Cheek	1312	1712.4	23.75	24	1.059	0.03	0.877	0.929
95	WCDMA Band IV	RMC12.2K	Right Tilted	1312	1712.4	23.75	24	1.059	0.07	0.235	0.249
96	WCDMA Band IV	RMC12.2K	Left Cheek	1312	1712.4	23.75	24	1.059	0.02	1.03	1.091
97	WCDMA Band IV	RMC12.2K	Left Tilted	1312	1712.4	23.75	24	1.059	0.07	0.179	0.190
98	WCDMA Band IV	RMC12.2K	Right Cheek	1413	1732.6	23.25	24	1.189	-0.05	0.874	1.039
99	WCDMA Band IV	RMC12.2K	Right Cheek	1513	1752.6	23.32	24	1.169	-0.05	0.704	0.823
100	WCDMA Band IV	RMC12.2K	Left Cheek	1413	1732.6	23.25	24	1.189	0.07	1.1	1.307
101	WCDMA Band IV	RMC12.2K	Left Cheek	1513	1752.6	23.32	24	1.169	0.01	0.922	1.078
50	WCDMA Band II	RMC 12.2K	Right Cheek	9262	1852.4	23.16	23.5	1.081	-0.01	0.882	0.954
51	WCDMA Band II	RMC 12.2K	Right Tilted	9262	1852.4	23.16	23.5	1.081	-0.01	0.325	0.351
52	WCDMA Band II	RMC 12.2K	Left Cheek	9262	1852.4	23.16	23.5	1.081	-0.03	0.966	1.045
53	WCDMA Band II	RMC 12.2K	Left Tilted	9262	1852.4	23.16	23.5	1.081	0.01	0.328	0.355
54	WCDMA Band II	RMC 12.2K	Right Cheek	9400	1880	23.05	23.5	1.109	-0.01	0.909	1.008
55	WCDMA Band II	RMC 12.2K	Right Cheek	9538	1907.6	23.04	23.5	1.112	-0.08	0.885	0.984
56	WCDMA Band II	RMC 12.2K	Left Cheek	9400	1880	23.05	23.5	1.109	0.01	0.967	1.073
57	WCDMA Band II	RMC 12.2K	Left Cheek	9538	1907.6	23.04	23.5	1.112	0.01	0.885	0.984

**<WLAN2.4GHz SAR>**

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
74	WLAN 2.4GHz	802.11b	Right Cheek	6	2437	13.61	14	1.094	1.024	0.02	0.117	0.131
75	WLAN 2.4GHz	802.11b	Right Tilted	6	2437	13.61	14	1.094	1.024	0.08	0.077	0.086
76	WLAN 2.4GHz	802.11b	Left Cheek	6	2437	13.61	14	1.094	1.024	0.06	0.068	0.076
77	WLAN 2.4GHz	802.11b	Left Tilted	6	2437	13.61	14	1.094	1.024	0.03	0.076	0.085

13.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
19	GSM 850	GPRS (GMSK 2 Tx slot)	Front	1	251	848.8	30.16	30.5	1.081	-0.03	0.905	0.979
20	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	251	848.8	30.16	30.5	1.081	-0.02	1.01	1.092
21	GSM 850	GPRS (GMSK 2 Tx slot)	Left side	1	251	848.8	30.16	30.5	1.081	-0.08	0.699	0.756
22	GSM 850	GPRS (GMSK 2 Tx slot)	Right side	1	251	848.8	30.16	30.5	1.081	0.09	0.644	0.696
23	GSM 850	GPRS (GMSK 2 Tx slot)	Bottom side	1	251	848.8	30.16	30.5	1.081	-0.06	0.093	0.101
24	GSM 850	GPRS (GMSK 2 Tx slot)	Front	1	128	824.2	29.94	30.5	1.138	-0.05	0.85	0.967
25	GSM 850	GPRS (GMSK 2 Tx slot)	Front	1	189	836.4	30.01	30.5	1.119	0.04	0.908	1.016
26	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	128	824.2	29.94	30.5	1.138	0.05	1.17	1.331
27	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	189	836.4	30.01	30.5	1.119	-0.04	1.12	1.254
13	GSM1900	GPRS (GMSK 2 Tx slot)	Front	1	512	1850.2	27.43	28	1.140	-0.11	0.293	0.334
14	GSM1900	GPRS (GMSK 2 Tx slot)	Back	1	512	1850.2	27.43	28	1.140	-0.12	0.491	0.560
15	GSM1900	GPRS (GMSK 2 Tx slot)	Left side	1	512	1850.2	27.43	28	1.140	0.06	0.096	0.109
16	GSM1900	GPRS (GMSK 2 Tx slot)	Right side	1	512	1850.2	27.43	28	1.140	0.07	0.067	0.076
17	GSM1900	GPRS (GMSK 2 Tx slot)	Bottom side	1	512	1850.2	27.43	28	1.140	-0.05	0.24	0.274

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
31	WCDMA Band V	RMC 12.2K	Front	1	4182	836.4	22.91	23.5	1.146	-0.01	0.891	1.021
32	WCDMA Band V	RMC 12.2K	Back	1	4182	836.4	22.91	23.5	1.146	-0.03	1.03	1.180
33	WCDMA Band V	RMC 12.2K	Left side	1	4182	836.4	22.91	23.5	1.146	-0.06	0.715	0.819
34	WCDMA Band V	RMC 12.2K	Right side	1	4182	836.4	22.91	23.5	1.146	-0.01	0.614	0.703
35	WCDMA Band V	RMC 12.2K	Bottom side	1	4182	836.4	22.91	23.5	1.146	-0.03	0.097	0.111
36	WCDMA Band V	RMC 12.2K	Front	1	4132	826.4	22.87	23.5	1.156	0.01	0.668	0.772
37	WCDMA Band V	RMC 12.2K	Front	1	4233	846.6	22.78	23.5	1.180	-0.02	0.814	0.961
38	WCDMA Band V	RMC 12.2K	Back	1	4132	826.4	22.87	23.5	1.156	-0.02	1.02	1.179
39	WCDMA Band V	RMC 12.2K	Back	1	4233	846.6	22.78	23.5	1.180	-0.06	1.03	1.216
40	WCDMA Band V	RMC 12.2K	Left side	1	4132	826.4	22.87	23.5	1.156	0.01	0.519	0.600
41	WCDMA Band V	RMC 12.2K	Left side	1	4233	846.6	22.78	23.5	1.180	-0.02	0.64	0.755
83	WCDMA Band IV	RMC 12.2K	Front	1	1312	1712.4	23.75	24	1.059	-0.02	0.548	0.580
84	WCDMA Band IV	RMC 12.2K	Back	1	1312	1712.4	23.75	24	1.059	-0.01	0.919	0.973
85	WCDMA Band IV	RMC 12.2K	Left side	1	1312	1712.4	23.75	24	1.059	-0.01	0.223	0.236
86	WCDMA Band IV	RMC 12.2K	Right side	1	1312	1712.4	23.75	24	1.059	0.07	0.164	0.174
87	WCDMA Band IV	RMC 12.2K	Bottom side	1	1312	1712.4	23.75	24	1.059	-0.05	0.605	0.641
88	WCDMA Band IV	RMC 12.2K	Back	1	1413	1432.6	23.25	24	1.189	0.01	1.04	1.236
89	WCDMA Band IV	RMC 12.2K	Back	1	1513	1752.6	23.32	24	1.169	-0.01	0.859	1.005
1	WCDMA Band II	RMC12.2K	Front	1	9262	1852.4	23.16	23.5	1.081	-0.02	0.784	0.848
2	WCDMA Band II	RMC12.2K	Back	1	9262	1852.4	23.16	23.5	1.081	-0.06	1.18	1.276
3	WCDMA Band II	RMC12.2K	Left side	1	9262	1852.4	23.16	23.5	1.081	0.06	0.278	0.301
4	WCDMA Band II	RMC12.2K	Right side	1	9262	1852.4	23.16	23.5	1.081	-0.05	0.191	0.207
5	WCDMA Band II	RMC12.2K	Bottom side	1	9262	1852.4	23.16	23.5	1.081	-0.03	0.597	0.646
6	WCDMA Band II	RMC12.2K	Front	1	9400	1880	23.05	23.5	1.109	-0.12	0.796	0.883
7	WCDMA Band II	RMC12.2K	Front	1	9538	1907.6	23.04	23.5	1.112	0.07	0.74	0.823
8	WCDMA Band II	RMC12.2K	Back	1	9400	1880	23.05	23.5	1.109	-0.04	1.29	1.431
9	WCDMA Band II	RMC12.2K	Back	1	9538	1907.6	23.04	23.5	1.112	-0.11	1.2	1.334

**<WLAN2.4GHz SAR>**

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
78	WLAN 2.4GHz	802.11b	Front	1	6	2437	13.61	14	1.094	1.024	-0.01	0.032	0.036
79	WLAN 2.4GHz	802.11b	Back	1	6	2437	13.61	14	1.094	1.024	0.12	0.041	0.046
80	WLAN 2.4GHz	802.11b	Left side	1	6	2437	13.61	14	1.094	1.024	0.03	0.023	0.026
81	WLAN 2.4GHz	802.11b	Top side	1	6	2437	13.61	14	1.094	1.024	0.01	0.018	0.020

13.3 Body Worn SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
19	GSM 850	GPRS (GMSK 2 Tx slot)	Front	1	-	251	848.8	30.16	30.5	1.081	-0.03	0.905	0.979
20	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	-	251	848.8	30.16	30.5	1.081	-0.02	1.01	1.092
24	GSM 850	GPRS (GMSK 2 Tx slot)	Front	1	-	128	824.2	29.94	30.5	1.138	-0.05	0.85	0.967
25	GSM 850	GPRS (GMSK 2 Tx slot)	Front	1	-	189	836.4	30.01	30.5	1.119	0.04	0.908	1.016
26	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	-	128	824.2	29.94	30.5	1.138	0.05	1.17	1.331
27	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	-	189	836.4	30.01	30.5	1.119	-0.04	1.12	1.254
28	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	Headset	128	824.2	29.94	30.5	1.138	0.03	0.982	1.117
29	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	Headset	189	836.4	30.01	30.5	1.119	-0.02	0.943	1.056
30	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	Headset	251	848.8	30.16	30.5	1.081	-0.04	0.846	0.915
13	GSM1900	GPRS (GMSK 2 Tx slot)	Front	1	-	512	1850.2	27.43	28	1.140	-0.11	0.293	0.334
14	GSM1900	GPRS (GMSK 2 Tx slot)	Back	1	-	512	1850.2	27.43	28	1.140	-0.12	0.491	0.560

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
31	WCDMA Band V	RMC 12.2K	Front	1	-	4182	836.4	22.91	23.5	1.146	-0.01	0.891	1.021
32	WCDMA Band V	RMC 12.2K	Back	1	-	4182	836.4	22.91	23.5	1.146	-0.03	1.03	1.180
36	WCDMA Band V	RMC 12.2K	Front	1	-	4132	826.4	22.87	23.5	1.156	0.01	0.668	0.772
37	WCDMA Band V	RMC 12.2K	Front	1	-	4233	846.6	22.78	23.5	1.180	-0.02	0.814	0.961
38	WCDMA Band V	RMC 12.2K	Back	1	-	4132	826.4	22.87	23.5	1.156	-0.02	1.02	1.179
39	WCDMA Band V	RMC 12.2K	Back	1	-	4233	846.6	22.78	23.5	1.180	-0.06	1.03	1.216
42	WCDMA Band V	RMC 12.2K	Back	1	Headset	4233	846.6	22.78	23.5	1.180	-0.01	0.821	0.969
43	WCDMA Band V	RMC 12.2K	Back	1	Headset	4132	826.4	22.87	23.5	1.156	-0.02	0.8	0.925
44	WCDMA Band V	RMC 12.2K	Back	1	Headset	4182	836.4	22.91	23.5	1.146	0.03	0.882	1.010
83	WCDMA Band IV	RMC 12.2K	Front	1	-	1312	1712.4	23.75	24	1.059	-0.02	0.548	0.580
84	WCDMA Band IV	RMC 12.2K	Back	1	-	1312	1712.4	23.75	24	1.059	-0.01	0.919	0.973
88	WCDMA Band IV	RMC 12.2K	Back	1	-	1413	1432.6	23.25	24	1.189	0.01	1.04	1.236
89	WCDMA Band IV	RMC 12.2K	Back	1	-	1513	1752.6	23.32	24	1.169	-0.01	0.859	1.005
90	WCDMA Band IV	RMC 12.2K	Back	1	Headset	1413	1432.6	23.25	24	1.189	0.09	1.09	1.295
91	WCDMA Band IV	RMC 12.2K	Back	1	Headset	1312	1712.4	23.75	24	1.059	0.01	1	1.059
92	WCDMA Band IV	RMC 12.2K	Back	1	Headset	1513	1752.6	23.32	24	1.169	0.01	0.905	1.058
1	WCDMA Band II	RMC12.2K	Front	1	-	9262	1852.4	23.16	23.5	1.081	-0.02	0.784	0.848
2	WCDMA Band II	RMC12.2K	Back	1	-	9262	1852.4	23.16	23.5	1.081	-0.06	1.18	1.276
6	WCDMA Band II	RMC12.2K	Front	1	-	9400	1880	23.05	23.5	1.109	-0.12	0.796	0.883
7	WCDMA Band II	RMC12.2K	Front	1	-	9538	1907.6	23.04	23.5	1.112	0.07	0.74	0.823
8	WCDMA Band II	RMC12.2K	Back	1	-	9400	1880	23.05	23.5	1.109	-0.04	1.29	1.431
9	WCDMA Band II	RMC12.2K	Back	1	-	9538	1907.6	23.04	23.5	1.112	-0.11	1.2	1.334
10	WCDMA Band II	RMC12.2K	Back	1	Headset	9400	1880	23.05	23.5	1.109	-0.01	1.25	1.386
11	WCDMA Band II	RMC12.2K	Back	1	Headset	9262	1852.4	23.16	23.5	1.081	-0.01	1.15	1.244
12	WCDMA Band II	RMC12.2K	Back	1	Headset	9538	1907.6	23.04	23.5	1.112	-0.03	1.17	1.301

**<WLAN2.4GHz SAR>**

Plot No.	Band	Mode	Test Position	Gap (cm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
78	WLAN 2.4GHz	802.11b	Front	1	-	6	2437	13.61	14	1.094	1.024	-0.01	0.032	0.036
79	WLAN 2.4GHz	802.11b	Back	1	-	6	2437	13.61	14	1.094	1.024	0.12	0.041	0.046
82	WLAN 2.4GHz	802.11b	Back	1	Headset	6	2437	13.61	14	1.094	1.024	0.06	0.03	0.034

13.4 Repeated SAR Measurement

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
100	WCDMA Band IV	RMC 12.2K	Left Cheek	-	1413	1732.6	23.25	24	1.189	0.07	1.1	1	1.307
93	WCDMA Band IV	RMC 12.2K	Left Cheek	-	1413	1732.6	23.25	24	1.189	0.06	1.07	1.028	1.272
26	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	128	824.2	29.94	30.5	1.138	0.05	1.17	1	1.331
45	GSM 850	GPRS (GMSK 2 Tx slot)	Back	1	128	824.2	29.94	30.5	1.138	-0.07	1.15	1.017	1.308
8	WCDMA Band II	RMC 12.2K	Back	1	9400	1880	23.05	23.5	1.109	-0.04	1.29	1	1.431
18	WCDMA Band II	RMC 12.2K	Back	1	9400	1880	23.05	23.5	1.109	-0.02	1.22	1.057	1.353

Note:

1. Per KDB 865664 D01v01r03, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg
2. Per KDB 865664 D01v01r03, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
3. The ratio is the largest SAR to the smallest SAR among original and repeated measurement.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

13.5 Highest SAR Plot

TestLaboratory: Sporton International Inc. SAR/HAC TestingLab

Date: 2014.02.20

26 GSM850_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch128

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 824.2 MHz; Duty Cycle: 1:4.15
 Medium: MSL_835_140220 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.964$ S/m; $\epsilon_r = 54.349$;
 $\rho = 1000$ kg/m³
 Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch128/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.38 W/kg

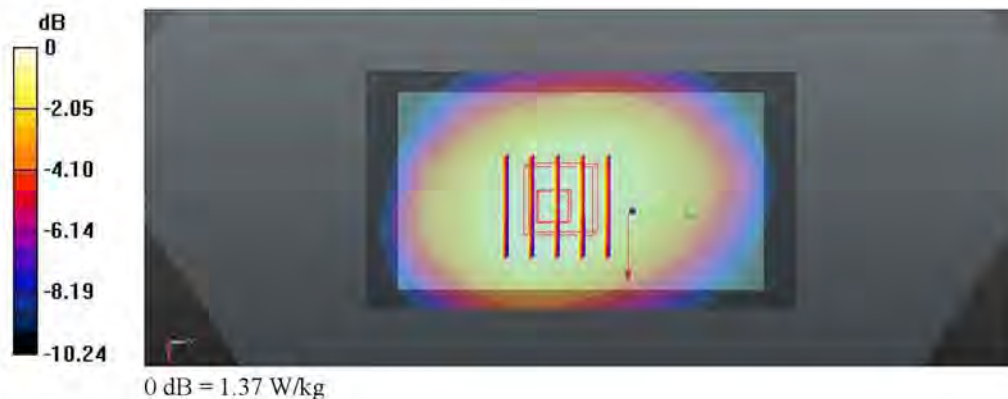
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.827 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.873 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



TestLaboratory: Sporton International Inc. SAR/HAC TestingLab

Date: 2014.02.19

14 GSM1900_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium: MSL_1900_140219 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 54.607$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.637 W/kg

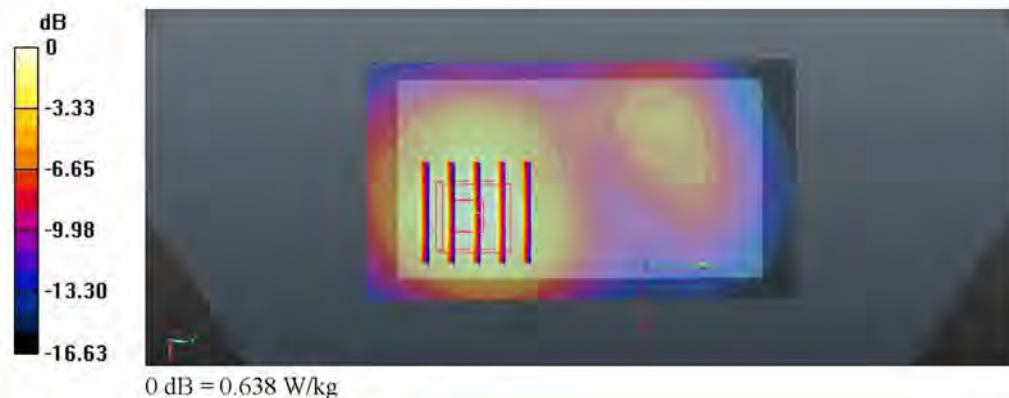
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.826 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.804 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.638 W/kg



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2014.02.20

39 WCDMA Band V_RMC 12.2K_Back_1.0cm_Ch4233

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

Medium: MSL_835_140220 Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 54.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4233/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.20 W/kg

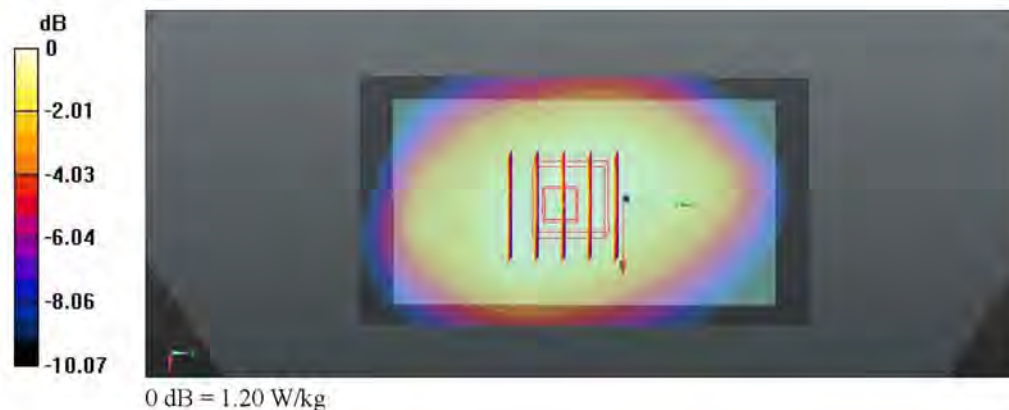
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.999 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.772 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



TestLaboratory: Sporton International Inc. SAR/HAC TestingLab

Date: 2014.02.24

100 WCDMA Band IV_RMC 12.2K_Left Cheek_Ch1413

Communication System: WCDMA;Frequency: 1732.6 MHz;Duty Cycle: 1:1

Medium: HSL_1750_140224 Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 38.924$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1413/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.47 W/kg

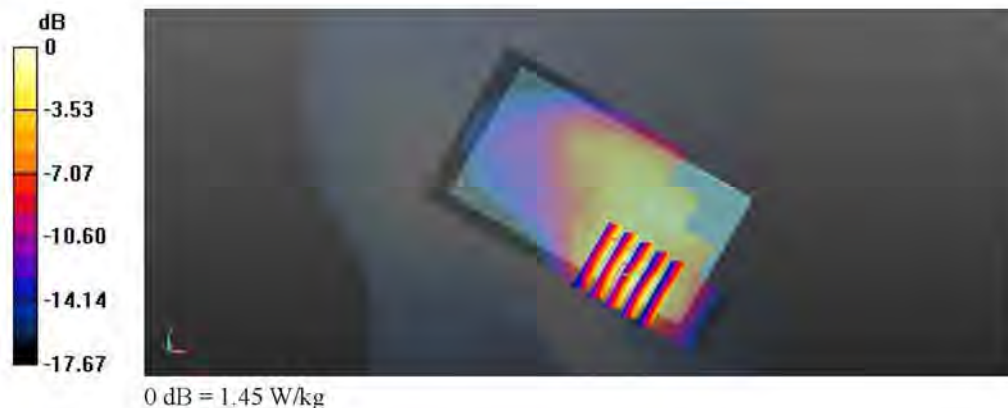
Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.282 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.591 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



TestLaboratory: Sporton International Inc. SAR/HAC TestingLab

Date: 2014.02.19

08 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9400

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 54.538$;

$\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9400/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.74 W/kg

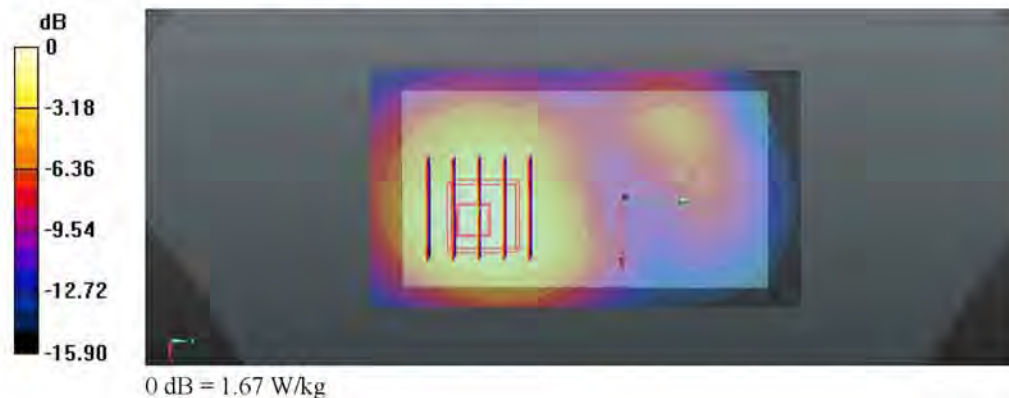
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.624 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.759 W/kg

Maximum value of SAR (measured) = 1.67 W/kg



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2014.02.21

74 WLAN 2.4GHz_802.11b_Right Cheek_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: HSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 37.678$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.22, 7.22, 7.22); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (71x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.193 W/kg

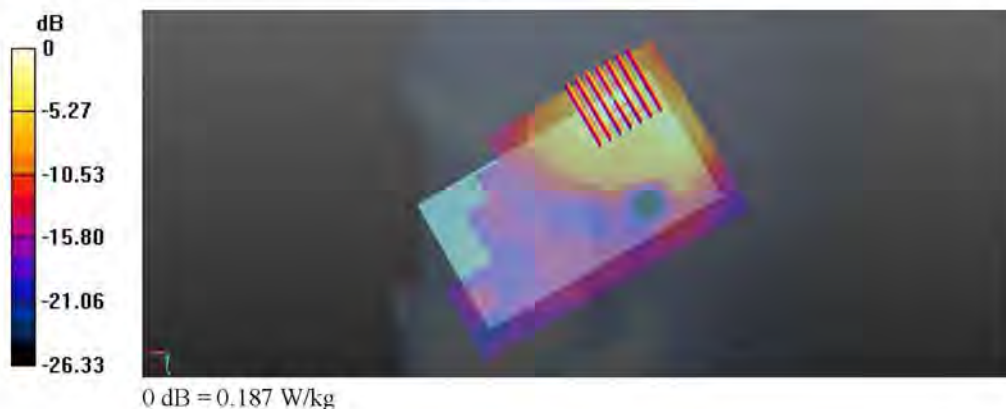
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.955 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.050 W/kg

Maximum value of SAR (measured) = 0.187 W/kg



14. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Phone			Note
		Head	Body-worn	Hotspot	
1.	GSM(Voice) + WLAN2.4GHz(data)	Yes	Yes		
2.	WCDMA(Voice) + WLAN2.4GHz(data)	Yes	Yes		
3.	GSM(Voice) + Bluetooth(data)	Yes	Yes		
4.	WCDMA((Voice) + Bluetooth(data)	Yes	Yes		
5.	GPRS/EDGE(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
6.	WCDMA(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
7.	GPRS/EDGE(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering
8.	WCDMA(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering

Note:

- WLAN 2.4GHz and Bluetooth share the same antenna, and cannot transmit simultaneously.
- EUT will choose either GSM or WCDMA according to the network signal condition; therefore, they will not transmit simultaneously.
- Considering the possibility of 3rd party VoIP app installation by end users and the device does not have limitation to operate VoIP in GPRS/EGPRS wireless interface; considering the data rate of EGPRS to support VOIP quality and realistic operation, SAR testing was not performed evaluation VOIP operation in EGPRS mode.
- The reported SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v05r01, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation $< 1.6\text{W/kg}$.
 - $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan
If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR $< 1.6\text{W/kg}$
- For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v05r01 based on the formula below.
 - $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) [\sqrt{f(\text{GHz})/x}] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$; where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - When the minimum test separation distance is $< 5\text{mm}$, the distance is used 5mm to determine SAR test exclusion.
 - 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is $> 50 \text{ mm}$.
If the test separation distance (antenna-user) is $< 5\text{mm}$, 5mm is used for excluded SAR calculation

Bluetooth				
Tune-up Maximum power (dBm)	Exposure Position	Head	Hotspot	Body-worn
	Test separation (mm)	0	10	10
2	Estimated SAR (W/kg)	0.067	0.033	0.033

14.1 Head Exposure Conditions

	WWAN			WLAN		Bluetooth	WWAN+WLAN Summation SAR (W/kg)	WWAN+BT Summation SAR (W/kg)	SPLSR	Case No
Position	WWAN Band	Plot No	SAR (W/kg)	Plot No	SAR (W/kg)	Estimated SAR (W/kg)				
Right Cheek	GSM 850	58	0.908	74	0.131	0.067	1.04	0.98		
	GSM1900	46	0.355	74	0.131	0.067	0.49	0.42		
	WCDMA Band V	66	1.011	74	0.131	0.067	1.14	1.08		
	WCDMA Band IV	98	1.039	74	0.131	0.067	1.17	1.11		
	WCDMA Band II	54	1.008	74	0.131	0.067	1.14	1.08		
Right Tilted	GSM 850	59	0.58	75	0.086	0.067	0.67	0.65		
	GSM1900	47	0.132	75	0.086	0.067	0.22	0.20		
	WCDMA Band V	67	0.737	75	0.086	0.067	0.82	0.80		
	WCDMA Band IV	95	0.249	75	0.086	0.067	0.34	0.32		
	WCDMA Band II	51	0.351	75	0.086	0.067	0.44	0.42		
Left Cheek	GSM 850	60	0.918	76	0.076	0.067	0.99	0.99		
	GSM1900	48	0.382	76	0.076	0.067	0.46	0.45		
	WCDMA Band V	68	1.069	76	0.076	0.067	1.15	1.14		
	WCDMA Band IV	100	1.307	76	0.076	0.067	1.38	1.37		
	WCDMA Band II	56	1.073	76	0.076	0.067	1.15	1.14		
Left Tilted	GSM 850	61	0.579	77	0.085	0.067	0.66	0.65		
	GSM1900	49	0.133	77	0.085	0.067	0.22	0.20		
	WCDMA Band V	69	0.749	77	0.085	0.067	0.83	0.82		
	WCDMA Band IV	97	0.19	77	0.085	0.067	0.28	0.26		
	WCDMA Band II	53	0.355	77	0.085	0.067	0.44	0.42		

14.2 Hotspot Exposure Conditions

Position	WWAN			WLAN		Bluetooth	WWAN+WLAN Summation SAR (W/kg)	WWAN+BT Summation SAR (W/kg)	SPLSR	Case No
	WWAN Band	Plot No	SAR (W/kg)	Plot No	SAR (W/kg)	Estimated SAR (W/kg)				
Front	GSM 850	25	1.016	78	0.036	0.033	1.05	1.05		
	GSM1900	13	0.334	78	0.036	0.033	0.37	0.37		
	WCDMA Band V	31	1.021	78	0.036	0.033	1.06	1.05		
	WCDMA Band IV	83	0.58	78	0.036	0.033	0.62	0.61		
	WCDMA Band II	6	0.883	78	0.036	0.033	0.92	0.92		
Back	GSM 850	26	1.331	79	0.046	0.033	1.38	1.36		
	GSM1900	14	0.56	79	0.046	0.033	0.61	0.59		
	WCDMA Band V	39	1.216	79	0.046	0.033	1.26	1.25		
	WCDMA Band IV	88	1.236	79	0.046	0.033	1.28	1.27		
	WCDMA Band II	8	1.431	79	0.046	0.033	1.48	1.46		
Left Side	GSM 850	21	0.756	80	0.026	0.033	0.78	0.79		
	GSM1900	15	0.109	80	0.026	0.033	0.14	0.14		
	WCDMA Band V	33	0.819	80	0.026	0.033	0.85	0.85		
	WCDMA Band IV	85	0.236	80	0.026	0.033	0.26	0.27		
	WCDMA Band II	3	0.301	80	0.026	0.033	0.33	0.33		
Right Side	GSM 850	22	0.696				0.70	0.70		
	GSM1900	16	0.076				0.08	0.08		
	WCDMA Band V	34	0.703				0.70	0.70		
	WCDMA Band IV	86	0.174				0.17	0.17		
	WCDMA Band II	4	0.207				0.21	0.21		
Top Side	GSM 850			81	0.02	0.033	0.02	0.03		
	GSM1900			81	0.02	0.033	0.02	0.03		
	WCDMA Band V			81	0.02	0.033	0.02	0.03		
	WCDMA Band IV			81	0.02	0.033	0.02	0.03		
	WCDMA Band II			81	0.02	0.033	0.02	0.03		
Bottom Side	GSM 850	23	0.101				0.10	0.10		
	GSM1900	17	0.274				0.27	0.27		
	WCDMA Band V	35	0.111				0.11	0.11		
	WCDMA Band IV	87	0.641				0.64	0.64		
	WCDMA Band II	5	0.646				0.65	0.65		

14.3 Body-Worn Exposure Conditions

	WWAN			WLAN		Bluetooth	WWAN+WLAN Summation SAR (W/kg)	WWAN+BT Summation SAR (W/kg)	SPLSR	Case No
Position	WWAN Band	Plot No	SAR (W/kg)	Plot No	SAR (W/kg)	Estimated SAR (W/kg)				
Front	GSM 850	25	1.016	78	0.036	0.033	1.05	1.05		
	GSM1900	13	0.334	78	0.036	0.033	0.37	0.37		
	WCDMA Band V	31	1.021	78	0.036	0.033	1.06	1.05		
	WCDMA Band IV	83	0.58	78	0.036	0.033	0.62	0.61		
	WCDMA Band II	6	0.883	78	0.036	0.033	0.92	0.92		
Back	GSM 850	26	1.331	79	0.046	0.033	1.38	1.36		
	GSM1900	14	0.56	79	0.046	0.033	0.61	0.59		
	WCDMA Band V	39	1.216	79	0.046	0.033	1.26	1.25		
	WCDMA Band IV	88	1.236	79	0.046	0.033	1.28	1.27		
	WCDMA Band II	8	1.431	79	0.046	0.033	1.48	1.46		
Back (w/ Headset)	GSM 850	28	1.117	82	0.034	0.033	1.15	1.15		
	GSM1900			82	0.034	0.033	0.03	0.03		
	WCDMA Band V	44	1.01	82	0.034	0.033	1.04	1.04		
	WCDMA Band IV	90	1.295	82	0.034	0.033	1.33	1.33		
	WCDMA Band II	10	1.386	82	0.034	0.033	1.42	1.42		

Test Engineer : Kat Yin

15. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in Table 14.1

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/ κ ^(b)	1/ $\sqrt{3}$	1/ $\sqrt{6}$	1/ $\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

Table 15.1. Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)
Measurement System							
Probe Calibration	6.0	Normal	1	1	1	± 6.0 %	± 6.0 %
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %
Boundary Effects	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Linearity	4.7	Rectangular	√3	1	1	± 2.7 %	± 2.7 %
System Detection Limits	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %
Response Time	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %
Integration Time	2.6	Rectangular	√3	1	1	± 1.5 %	± 1.5 %
RF Ambient Noise	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
RF Ambient Reflections	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Probe Positioner	0.4	Rectangular	√3	1	1	± 0.2 %	± 0.2 %
Probe Positioning	2.9	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Max. SAR Eval.	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Test Sample Related							
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %
Power Drift	5.0	Rectangular	√3	1	1	± 2.9 %	± 2.9 %
Phantom and Setup							
Phantom Uncertainty	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	± 1.8 %	± 1.2 %
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	0.43	± 1.6 %	± 1.1 %
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	0.49	± 1.7 %	± 1.4 %
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	0.49	± 1.5 %	± 1.2 %
Combined Standard Uncertainty						± 11.0 %	± 10.8 %
Coverage Factor for 95 %						K=2	
Expanded Uncertainty						± 22.0 %	± 21.5 %

Table 15.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

16. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v01r02, "SAR Measurement Procedures for 802.11 a/b/g Transmitters", May 2007
- [6] FCC KDB 447498 D01 v05r02, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Feb 2014
- [7] FCC KDB 648474 D04 v01r02, "SAR Evaluation Considerations for Wireless Handsets", Dec 2013.
- [8] FCC KDB 941225 D01 v02, "SAR Measurement Procedures for 3G Devices – CDMA 2000 / Ev-Do / WCDMA / HSDPA / HSPA", October 2007
- [9] FCC KDB 941225 D02 v02r02, "SAR Guidance for HSPA, HSPA+, DC-HSDPA and 1x-Advanced", May 2013.
- [10] FCC KDB 941225 D03 v01, "Recommended SAR Test Reduction Procedures for GSM / GPRS / EDGE", December 2008
- [11] FCC KDB 941225 D06 v01r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", May 2013
- [12] FCC KDB 865664 D01 v01r03, "SAR Measurement Requirements for 100 MHz to 6 GHz", Feb 2014.
- [13] FCC KDB 865664 D02 v01r01, "RF Exposure Compliance Reporting and Documentation Considerations" May 2013.



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_835MHz_140221**DUT: Dipole 835 MHz D835V2**

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

Medium: HSL_835_140221 Medium parameters used: $f = 835$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 40.749$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.91 W/kg

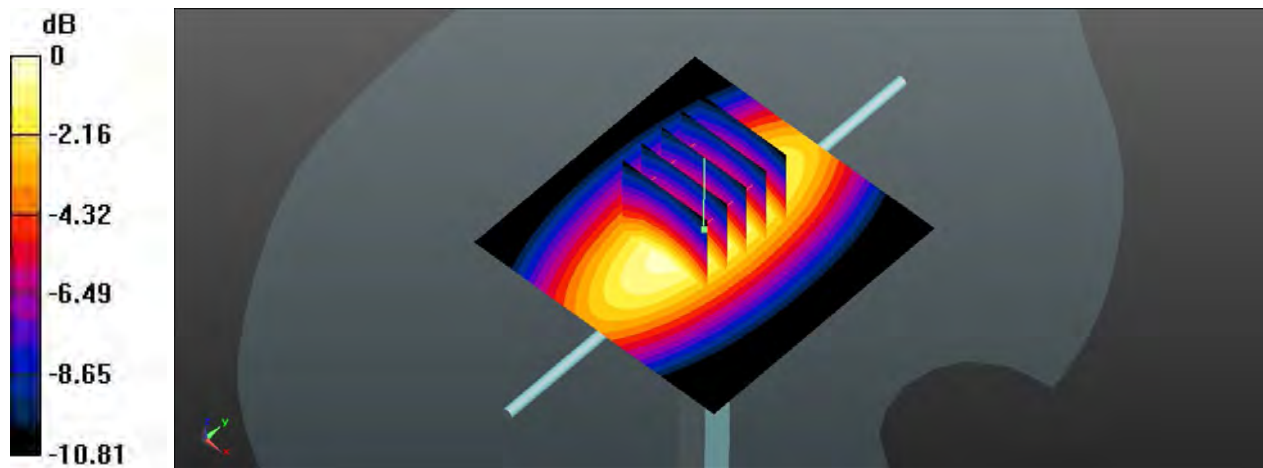
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.390 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.48 W/kg

Maximum value of SAR (measured) = 2.91 W/kg



0 dB = 2.91 W/kg

System Check_Head_1750MHz_140224**DUT: Dipole 1750 MHz D1750V2**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750_140224 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 38.86$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.9 W/kg

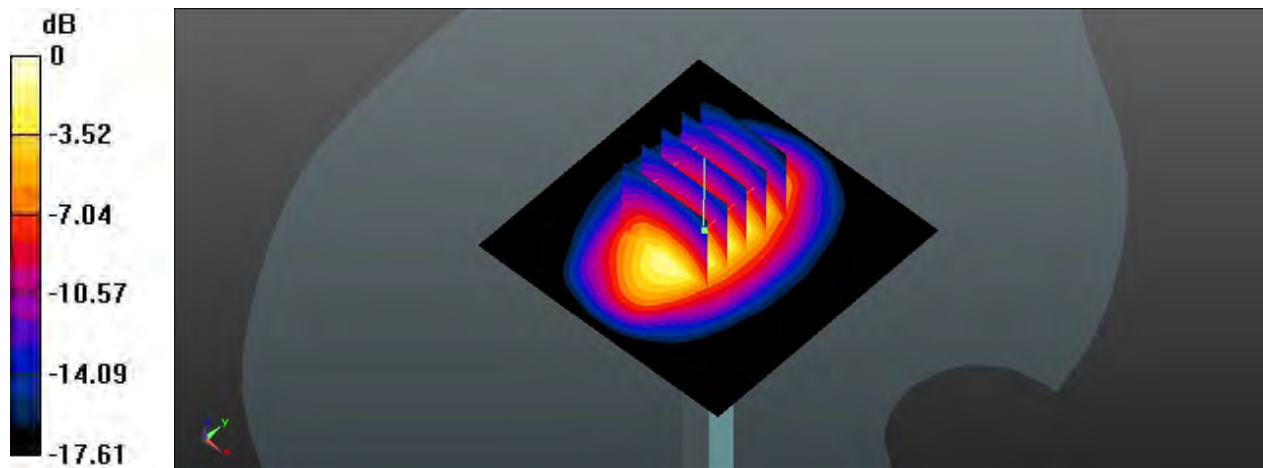
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.604 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 9.03 W/kg; SAR(10 g) = 4.78 W/kg

Maximum value of SAR (measured) = 12.7 W/kg



0 dB = 12.7 W/kg

System Check_Head_1900MHz_140221**DUT: Dipole 1900 MHz D1900V2**

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

Medium: HSL_1900_140221 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.412$ S/m; $\epsilon_r = 39.311$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 14.4 W/kg

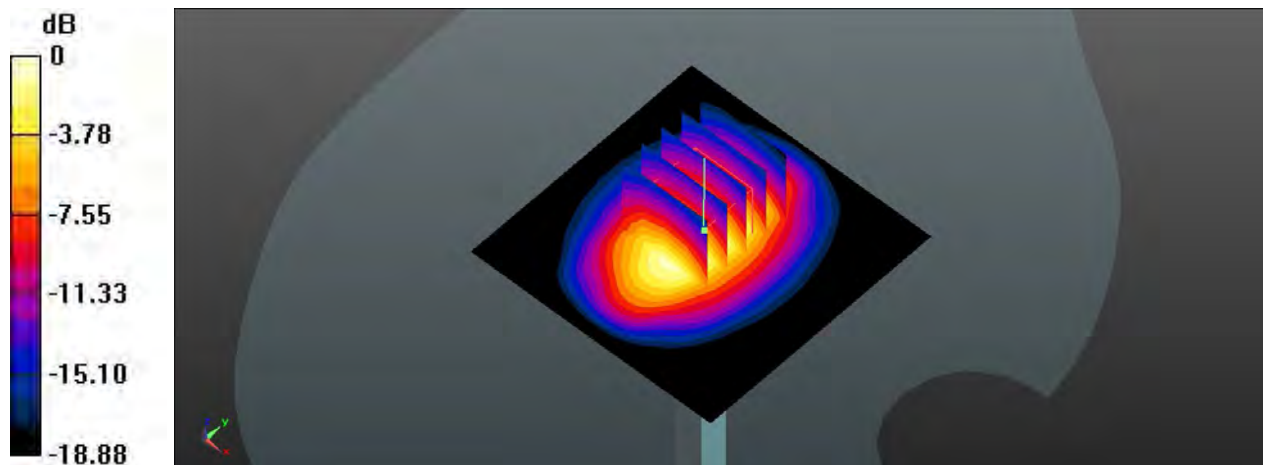
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 98.693 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 9.86 W/kg; SAR(10 g) = 5.14 W/kg

Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg

System Check_Head_2450MHz_140221**DUT: Dipole 2450 MHz D2450V2**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450_140221 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.809$ S/m; $\epsilon_r = 37.604$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.22, 7.22, 7.22); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 21.1 W/kg

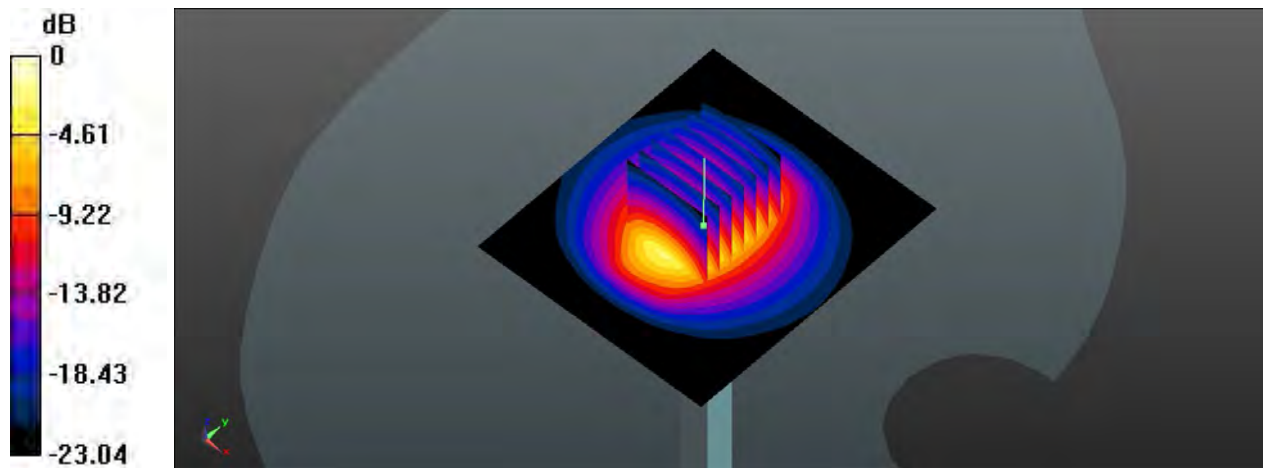
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.4 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 28.4 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.04 W/kg

Maximum value of SAR (measured) = 20.6 W/kg



0 dB = 20.6 W/kg

System Check_Body_835MHz_140220**DUT: Dipole 835 MHz**

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

Medium: MSL_835_140220 Medium parameters used: $f = 835$ MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 54.266$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.97 W/kg

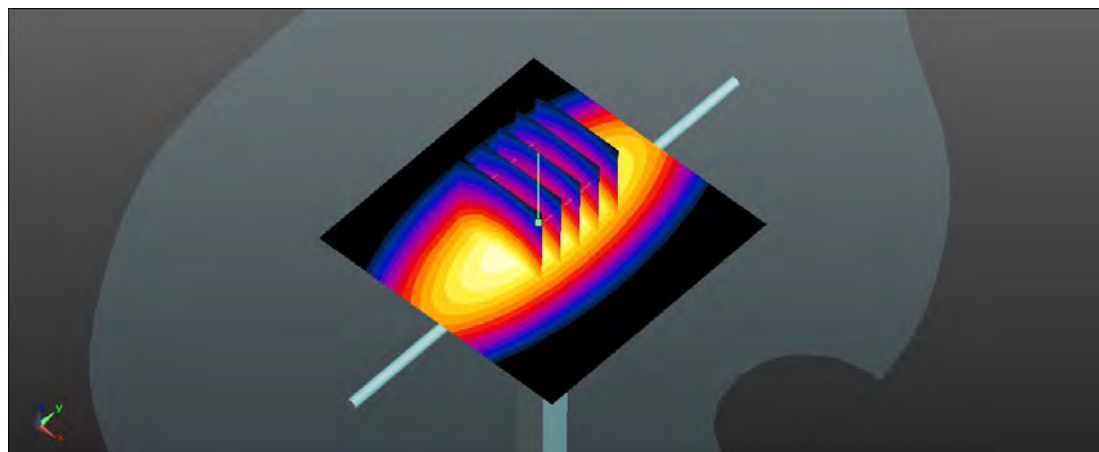
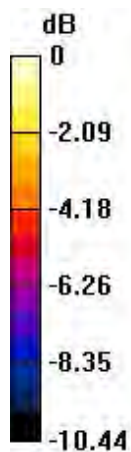
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.701 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 2.93 W/kg



0 dB = 2.93 W/kg

System Check_Body_1750MHz_140224**DUT: Dipole 1750 MHz D1750V2**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL_1750_140224 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.539$ S/m; $\epsilon_r = 54.578$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.1 W/kg

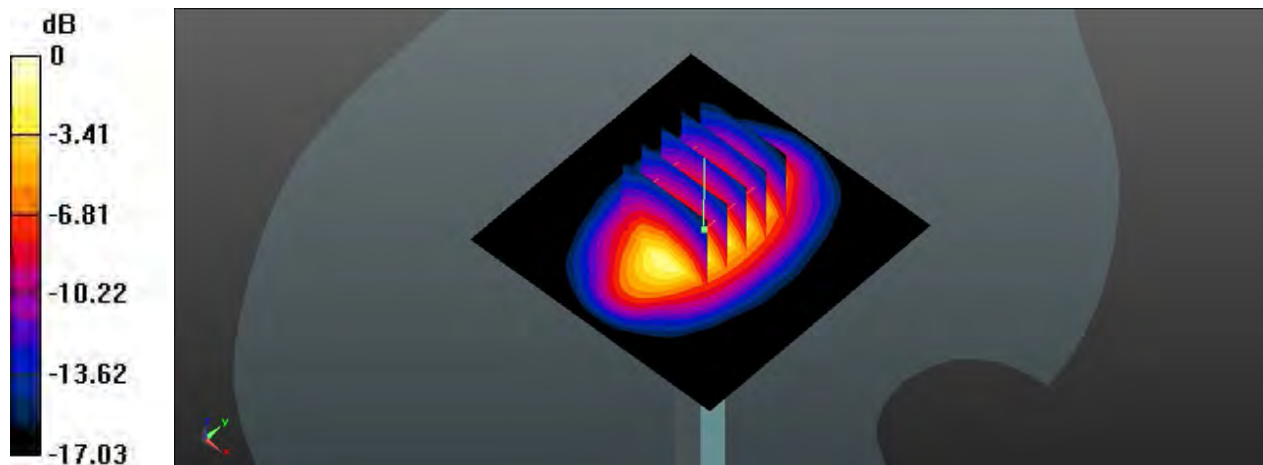
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 93.501 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 9.15 W/kg; SAR(10 g) = 4.82 W/kg

Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg

System Check_Body_1900MHz_140219**DUT: Dipole 1900 MHz D1900V2**

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

Medium: MSL_1900_140219 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.525$ S/m; $\epsilon_r = 54.504$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 14.1 W/kg

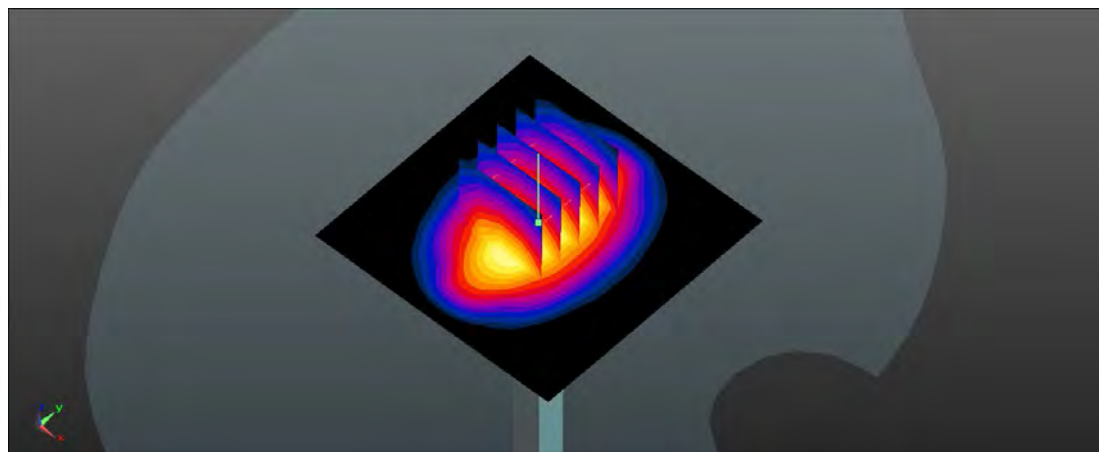
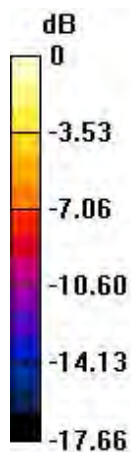
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 97.925 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.97 W/kg; SAR(10 g) = 5.23 W/kg

Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg

System Check_Body_2450MHz_140221**DUT: Dipole 2450 MHz D2450V2**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL_2450_140221 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 53.374$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.34, 7.34, 7.34); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 19.2 W/kg

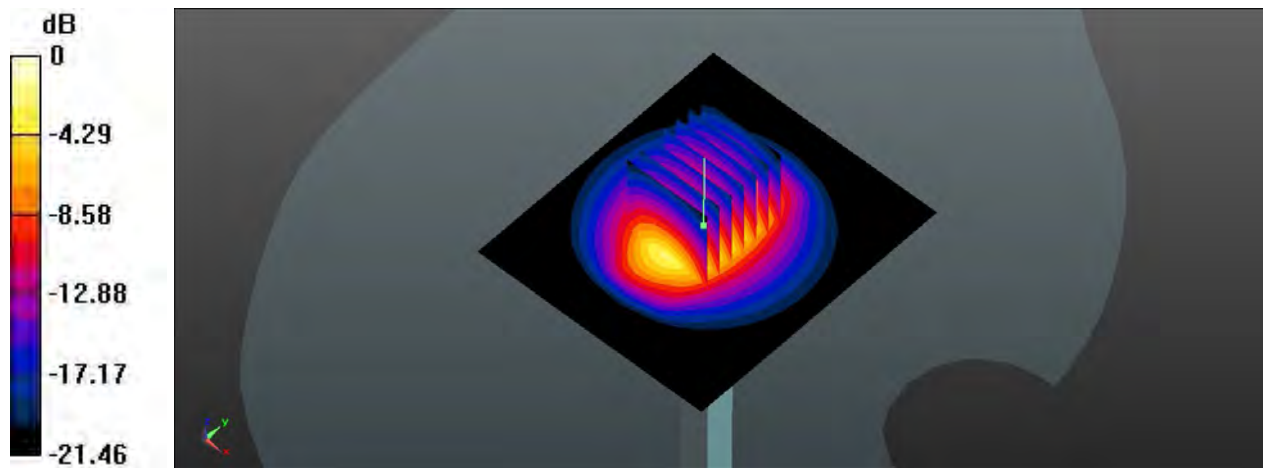
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.549 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 25.3 W/kg

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.79 W/kg

Maximum value of SAR (measured) = 18.9 W/kg



0 dB = 18.9 W/kg



Appendix B. Plots of SAR Measurement

The plots are shown as follows.

58 GSM850_GPRS (GMSK 2 Tx slot)_Right Cheek_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15

Medium: HSL_835_140221 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 40.606$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.966 W/kg

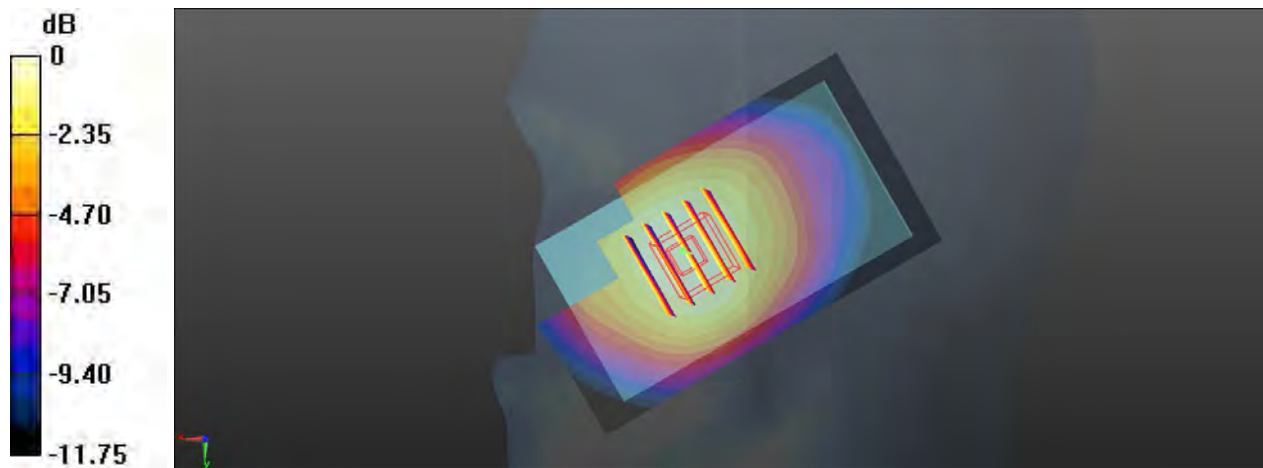
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.126 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.624 W/kg

Maximum value of SAR (measured) = 0.969 W/kg



0 dB = 0.969 W/kg

59 GSM850_GPRS (GMSK 2 Tx slot)_Right Tilted_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15
Medium: HSL_835_140221 Medium parameters used: $f = 848.8\text{MHz}$; $\sigma = 0.913\text{ S/m}$; $\epsilon_r = 40.606$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature: $23.6\text{ }^\circ\text{C}$; Liquid Temperature : $22.7\text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (51x91x1): Interpolated grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.606 W/kg

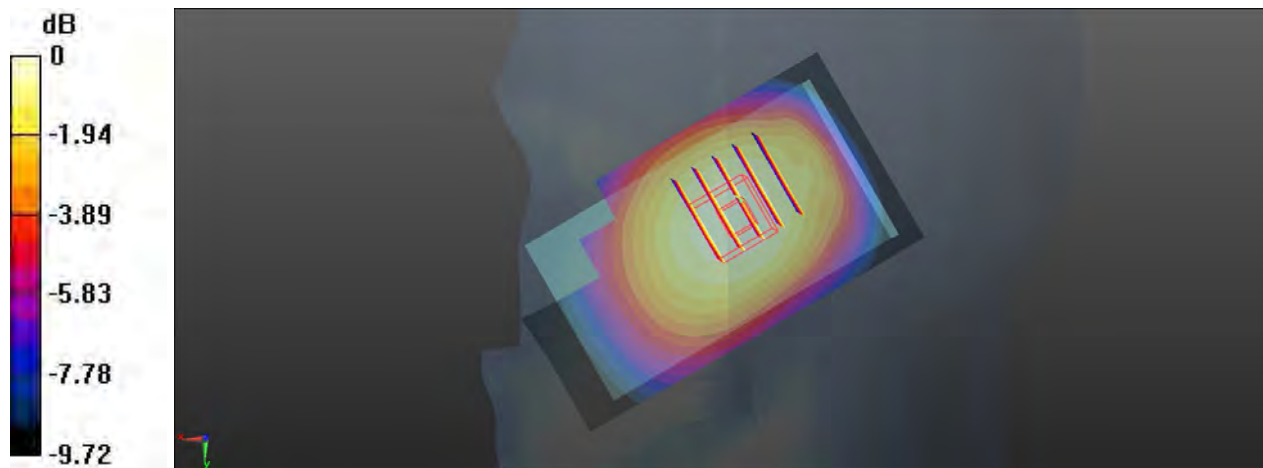
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.496 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.536 W/kg ; SAR(10 g) = 0.404 W/kg

Maximum value of SAR (measured) = 0.612 W/kg



0 dB = 0.612 W/kg

60 GSM850_GPRS (GMSK 2 Tx slot)_Left Cheek_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15

Medium: HSL_835_140221 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 40.606$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.11 W/kg

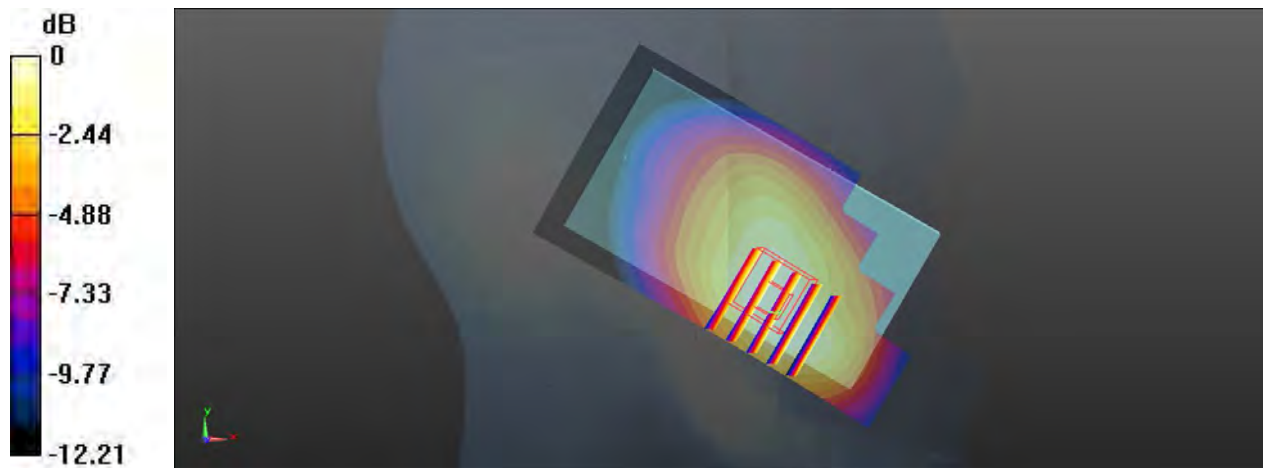
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.965 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.849 W/kg; SAR(10 g) = 0.603 W/kg

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg

61 GSM850_GPRS (GMSK 2 Tx slot)_Left Tilted_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15

Medium: HSL_835_140221 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 40.606$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.600 W/kg

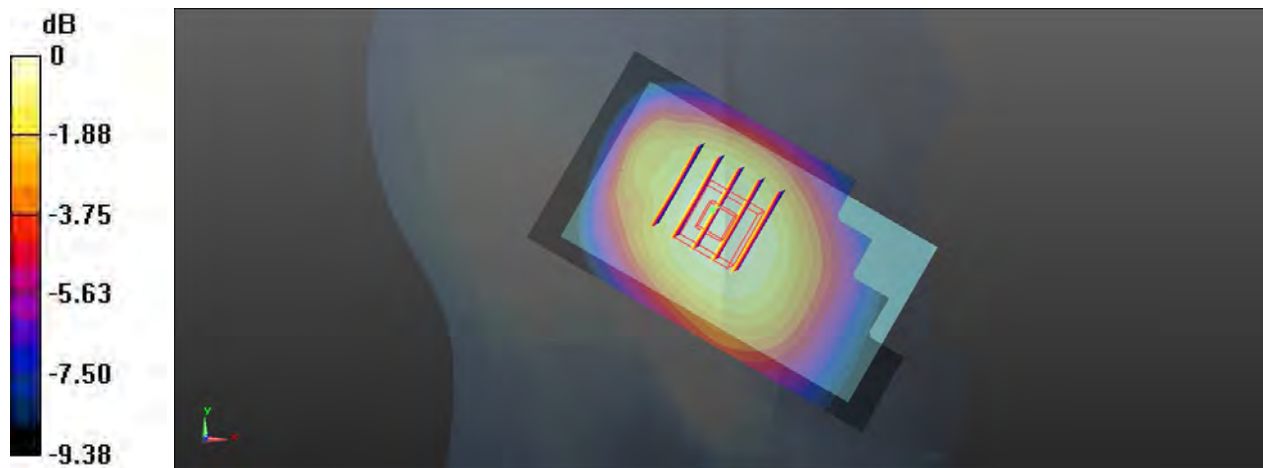
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.444 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.669 W/kg

SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.403 W/kg

Maximum value of SAR (measured) = 0.612 W/kg



0 dB = 0.612 W/kg

62 GSM850_GPRS (GMSK 2 Tx slot)_Right Cheek_Ch128

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 824.2 MHz; Duty Cycle: 1:4.15
Medium: HSL_835_140221 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 40.852$;
 $\rho = 1000$ kg/m³
Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch128/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.780 W/kg

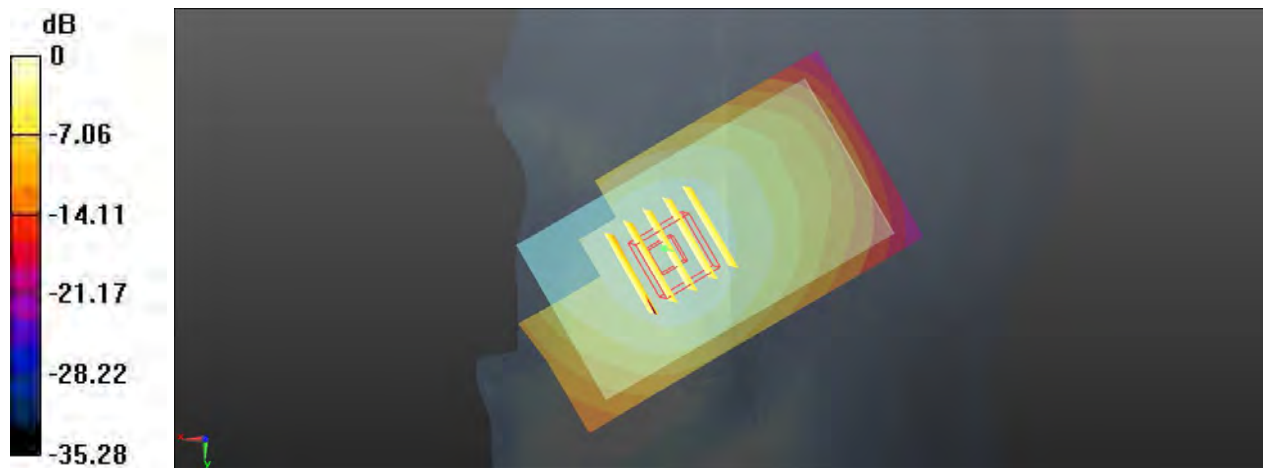
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.888 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.868 W/kg

SAR(1 g) = 0.681 W/kg; SAR(10 g) = 0.510 W/kg

Maximum value of SAR (measured) = 0.788 W/kg



0 dB = 0.788 W/kg

63 GSM850_GPRS (GMSK 2 Tx slot)_Right Cheek_Ch189

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 836.4 MHz; Duty Cycle: 1:4.15
Medium: HSL_835_140221 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch189/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.906 W/kg

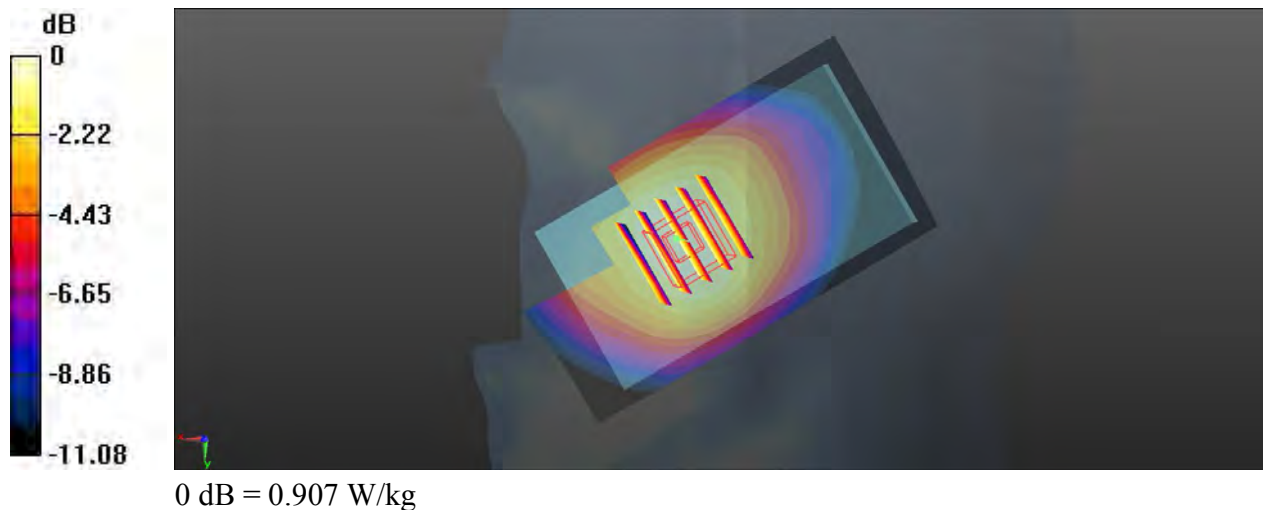
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.595 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.997 W/kg

SAR(1 g) = 0.792 W/kg; SAR(10 g) = 0.594 W/kg

Maximum value of SAR (measured) = 0.907 W/kg



64 GSM850_GPRS (GMSK 2 Tx slot)_Left Cheek_Ch128

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 824.2 MHz; Duty Cycle: 1:4.15
Medium: HSL_835_140221 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 40.852$;
 $\rho = 1000$ kg/m³
Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch128/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.900 W/kg

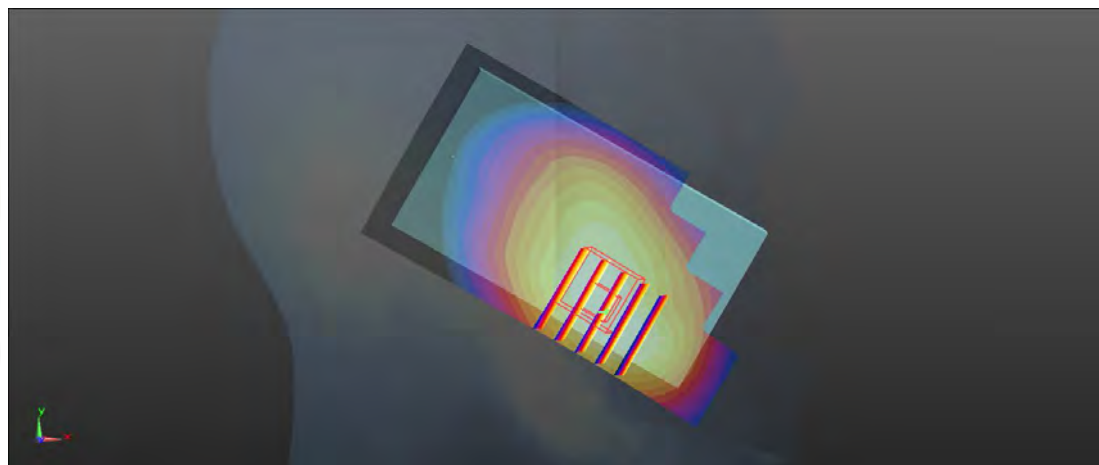
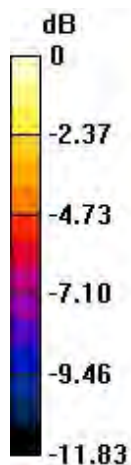
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.987 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.699 W/kg; SAR(10 g) = 0.496 W/kg

Maximum value of SAR (measured) = 0.861 W/kg



0 dB = 0.861 W/kg

65 GSM850_GPRS (GMSK 2 Tx slot)_Left Cheek_Ch189

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 836.4 MHz; Duty Cycle: 1:4.15
Medium: HSL_835_140221 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch189/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.02 W/kg

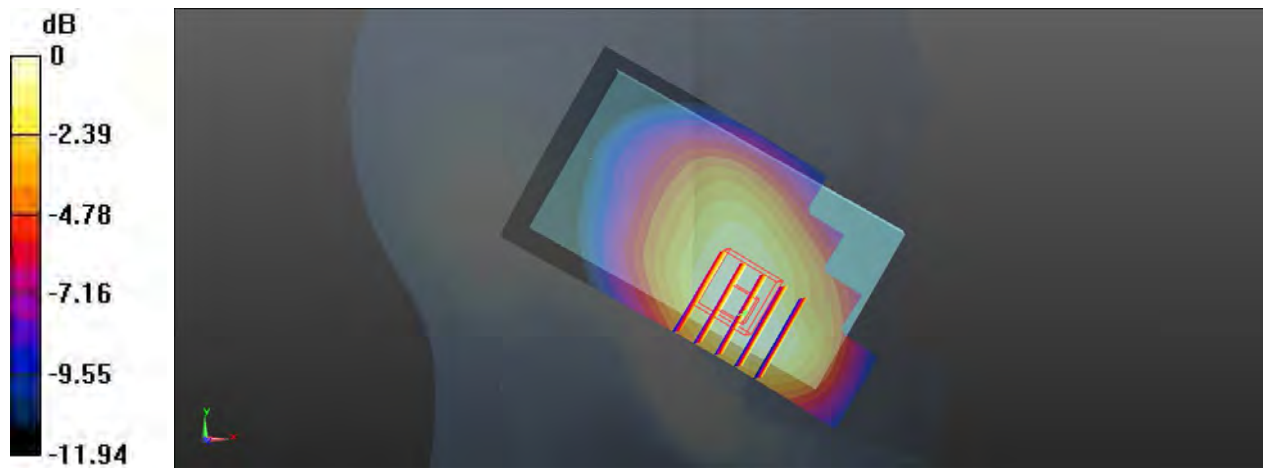
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.556 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.801 W/kg; SAR(10 g) = 0.567 W/kg

Maximum value of SAR (measured) = 0.986 W/kg



0 dB = 0.986 W/kg

46 GSM1900_GPRS (GMSK 2 Tx slot)_Right Cheek_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: HSL_1900_140221 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.351$ S/m; $\epsilon_r = 39.39$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.407 W/kg

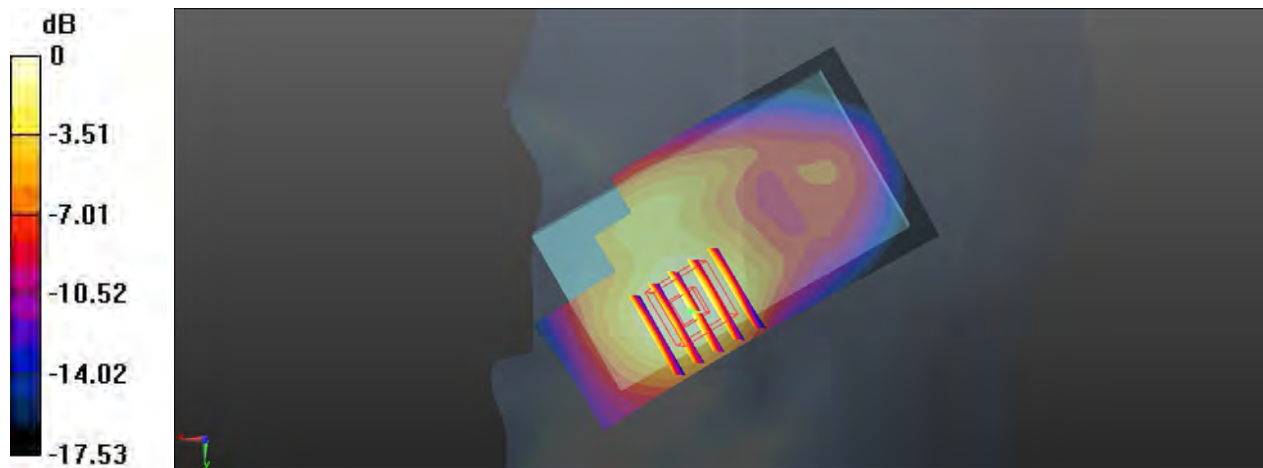
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.405 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 0.386 W/kg



0 dB = 0.386 W/kg

47 GSM1900_GPRS (GMSK 2 Tx slot)_Right Tilted_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: HSL_1900_140221 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.351$ S/m; $\epsilon_r = 39.39$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.164 W/kg

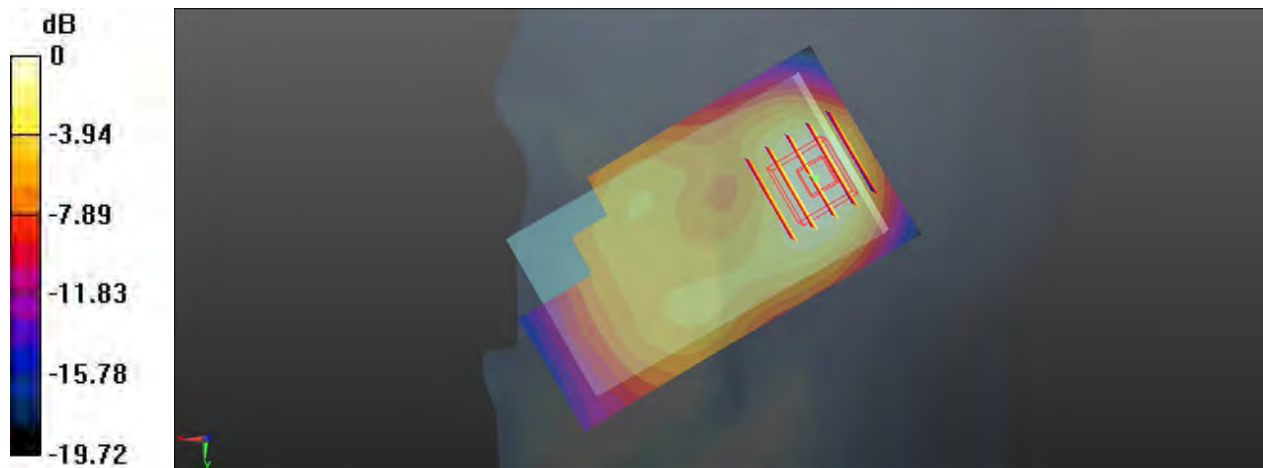
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.658 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.150 W/kg



0 dB = 0.150 W/kg

48 GSM1900_GPRS (GMSK 2 Tx slot)_Left Cheek_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: HSL_1900_140221 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.351$ S/m; $\epsilon_r = 39.39$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.462 W/kg

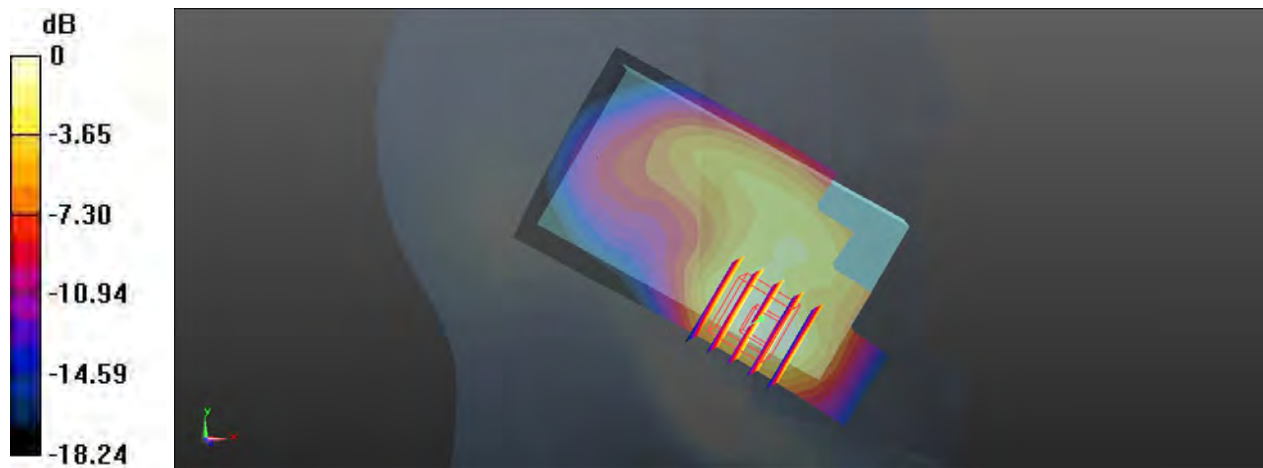
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.753 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.567 W/kg

SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.190 W/kg

Maximum value of SAR (measured) = 0.442 W/kg



0 dB = 0.442 W/kg

49 GSM1900_GPRS (GMSK 2 Tx slot)_Left Tilted_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: HSL_1900_140221 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.351$ S/m; $\epsilon_r = 39.39$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.163 W/kg

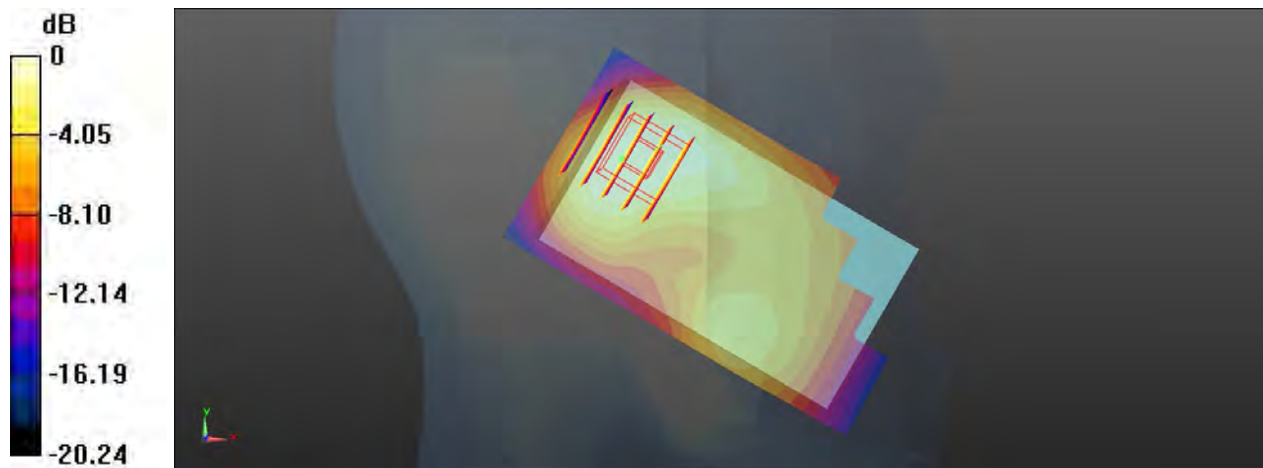
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.074 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.146 W/kg



0 dB = 0.146 W/kg

66 WCDMA Band V_RMC 12.2K_Right Cheek_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL_835_140221 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 W/kg

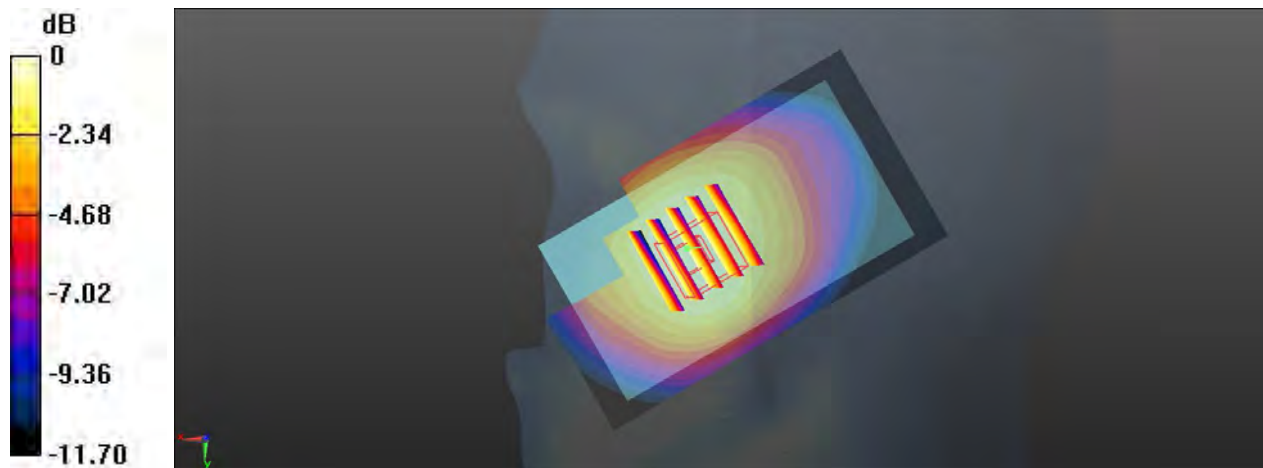
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.187 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.883 W/kg; SAR(10 g) = 0.664 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg

67 WCDMA Band V_RMC 12.2K_Right Tilted_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL_835_140221 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.723 W/kg

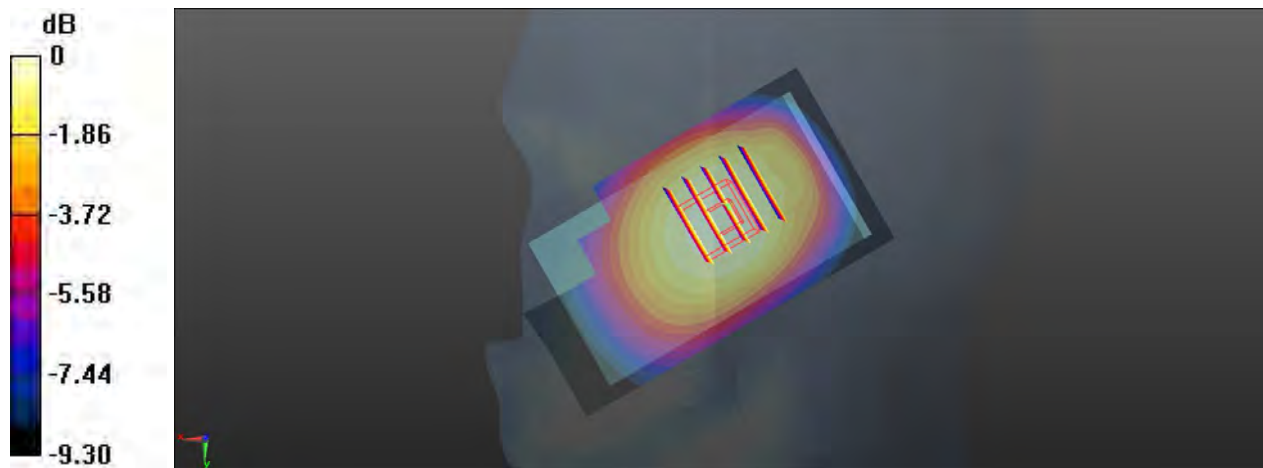
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.503 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.488 W/kg

Maximum value of SAR (measured) = 0.738 W/kg



0 dB = 0.738 W/kg

68 WCDMA Band V_RMC 12.2K_Left Cheek_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL_835_140221 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.20 W/kg

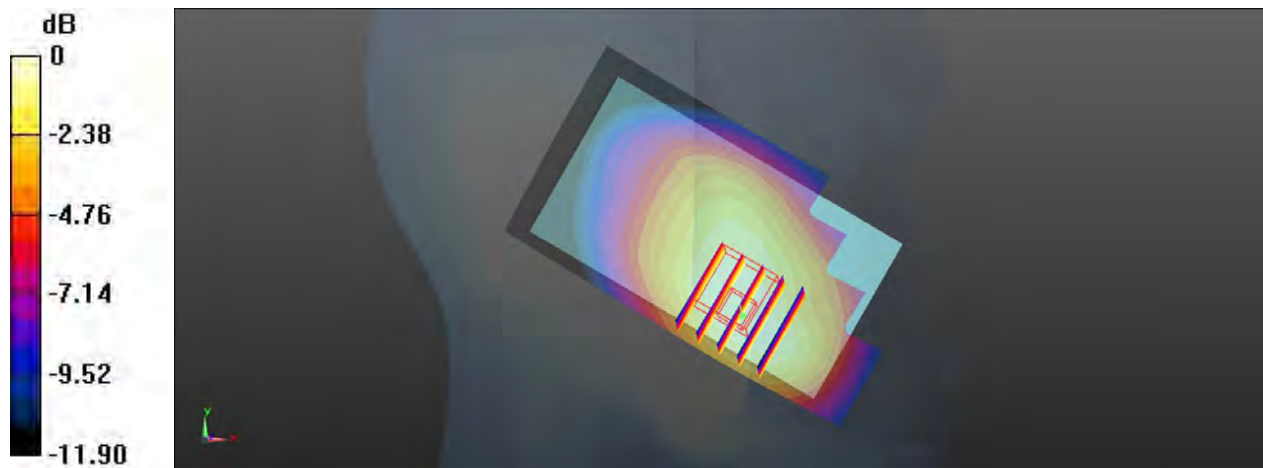
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.583 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.663 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg

69 WCDMA Band V_RMC 12.2K_Left Tilted_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL_835_140221 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.735 W/kg

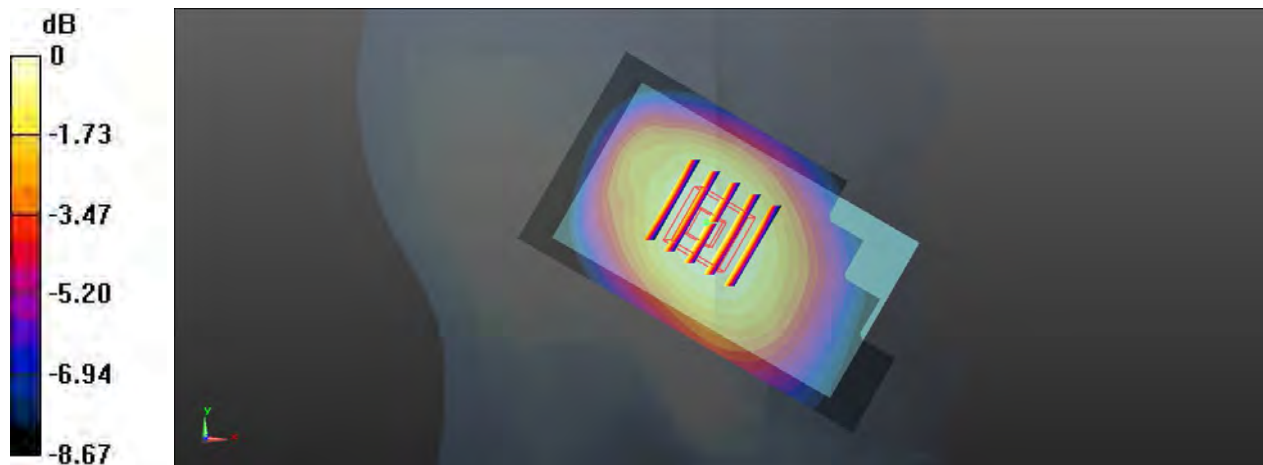
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.535 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.818 W/kg

SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.496 W/kg

Maximum value of SAR (measured) = 0.748 W/kg



0 dB = 0.748 W/kg

70 WCDMA Band V_RMC 12.2K_Right Cheek_Ch4132

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

Medium: HSL_835_140221 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 40.831$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4132/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.680 W/kg

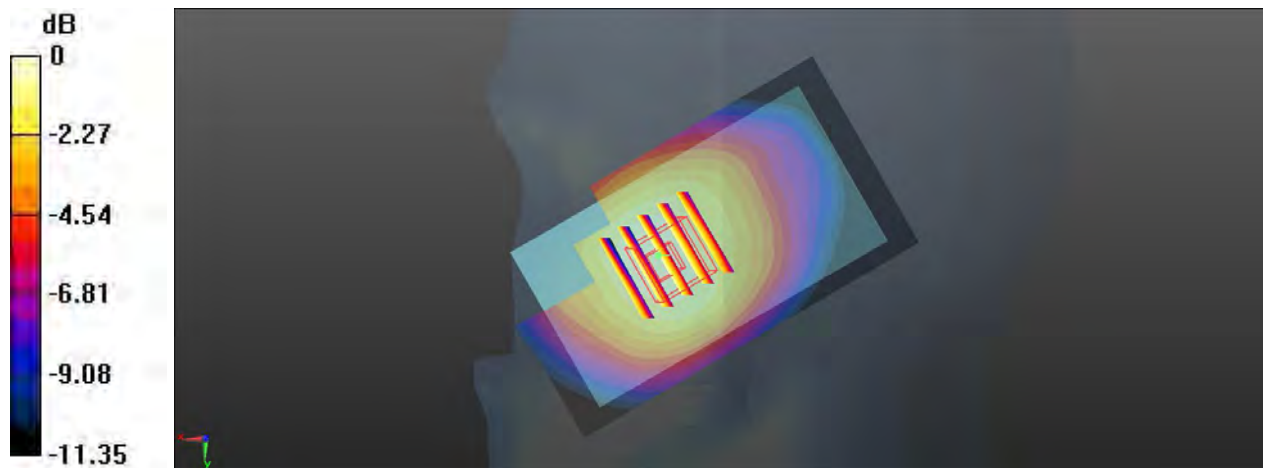
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.028 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.600 W/kg; SAR(10 g) = 0.451 W/kg

Maximum value of SAR (measured) = 0.684 W/kg



0 dB = 0.684 W/kg

71 WCDMA Band V_RMC 12.2K_Right Cheek_Ch4233

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

Medium: HSL_835_140221 Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 40.638$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4233/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.885 W/kg

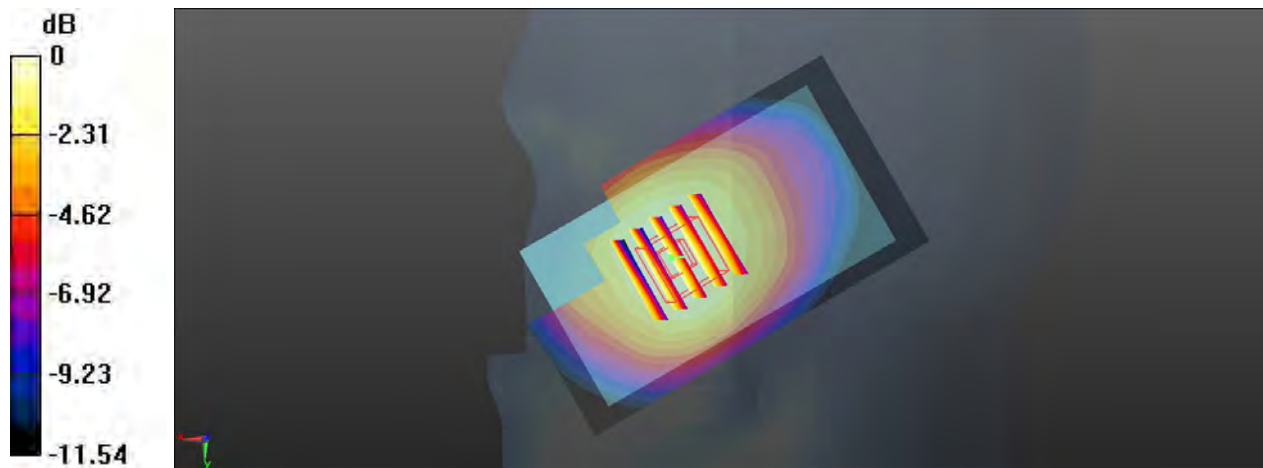
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.574 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.975 W/kg

SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.583 W/kg

Maximum value of SAR (measured) = 0.893 W/kg



0 dB = 0.893 W/kg

72 WCDMA Band V_RMC 12.2K_Left Cheek_Ch4132

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

Medium: HSL_835_140221 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 40.831$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4132/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.805 W/kg

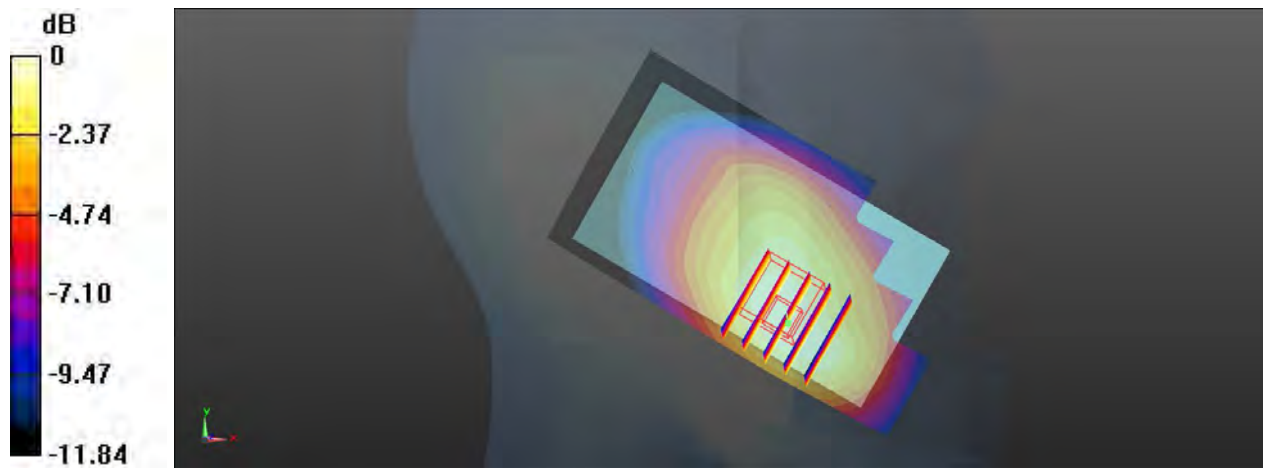
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.626 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.958 W/kg

SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.450 W/kg

Maximum value of SAR (measured) = 0.794 W/kg



0 dB = 0.794 W/kg

73 WCDMA Band V_RMC 12.2K_Left Cheek_Ch4233

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

Medium: HSL_835_140221 Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 40.638$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(10.05, 10.05, 10.05); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4233/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 W/kg

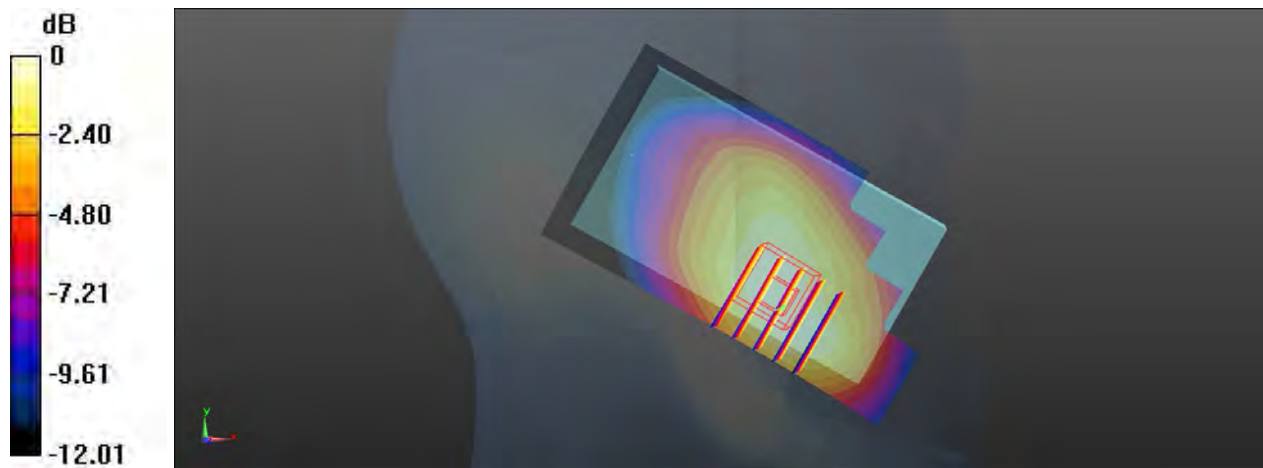
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.874 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.791 W/kg; SAR(10 g) = 0.562 W/kg

Maximum value of SAR (measured) = 0.976 W/kg



0 dB = 0.976 W/kg

94 WCDMA Band IV_RMC 12.2K_Right Cheek_Ch1312

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

Medium: HSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 39.024$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.16 W/kg

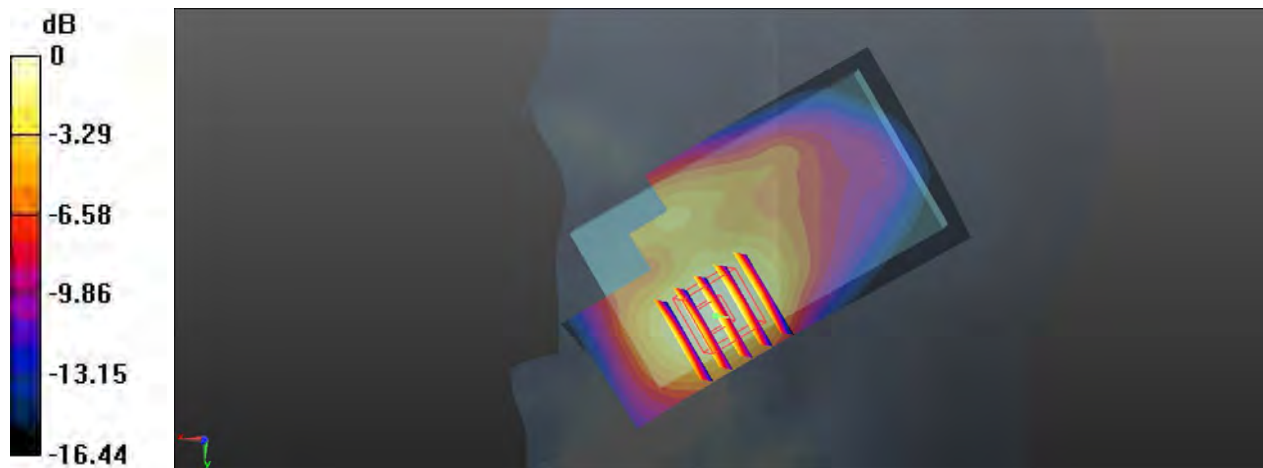
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.759 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.877 W/kg; SAR(10 g) = 0.547 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg

95 WCDMA Band IV_RMC 12.2K_Right Tilted_Ch1312

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

Medium: HSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 39.024$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.302 W/kg

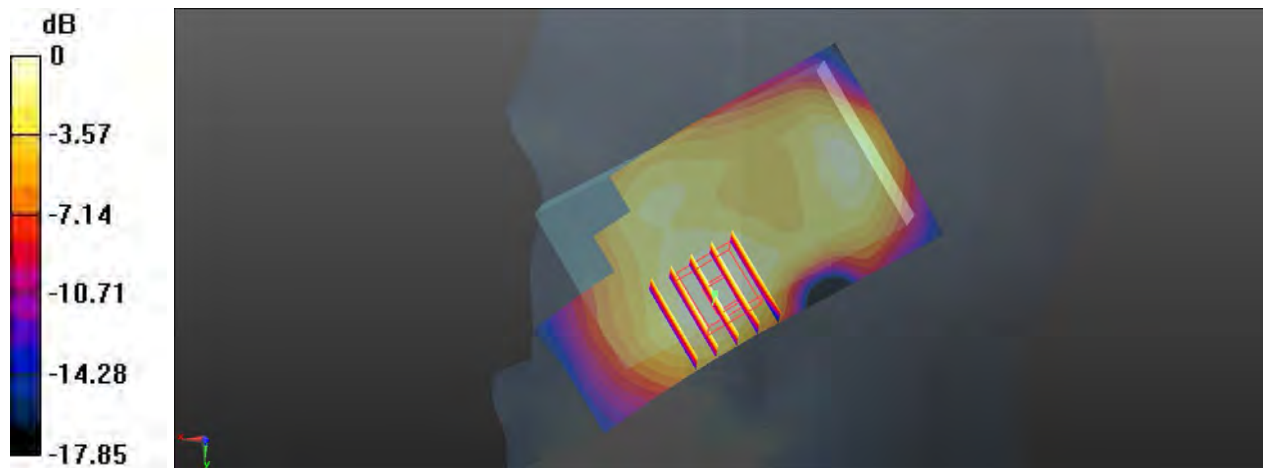
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.722 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.295 W/kg



0 dB = 0.295 W/kg

96 WCDMA Band IV_RMC 12.2K_Left Cheek_Ch1312

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

Medium: HSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 39.024$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.38 W/kg

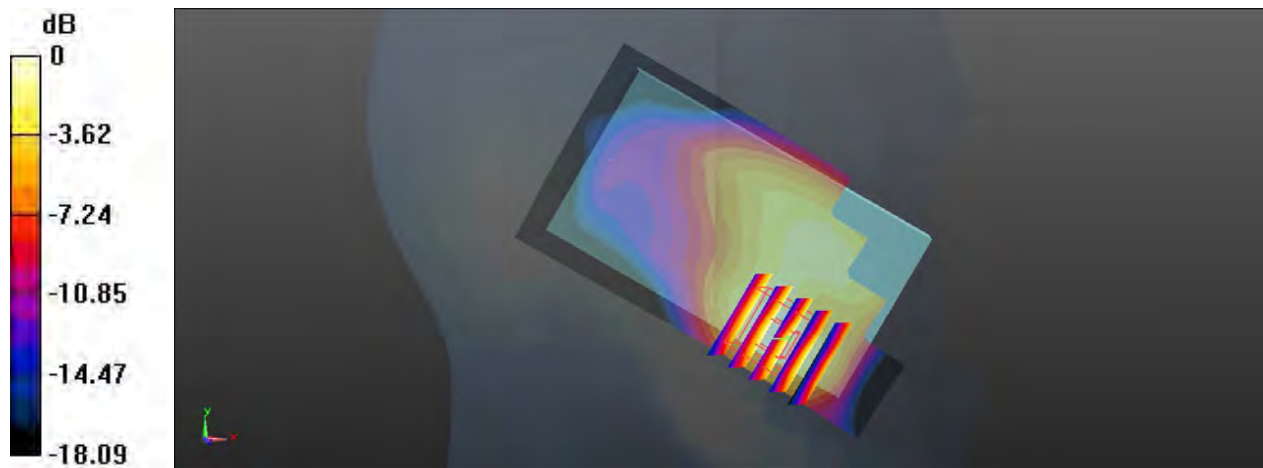
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.370 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.559 W/kg

Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.35 W/kg

97 WCDMA Band IV_RMC 12.2K_Left Tilted_Ch1312

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

Medium: HSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 39.024$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.257 W/kg

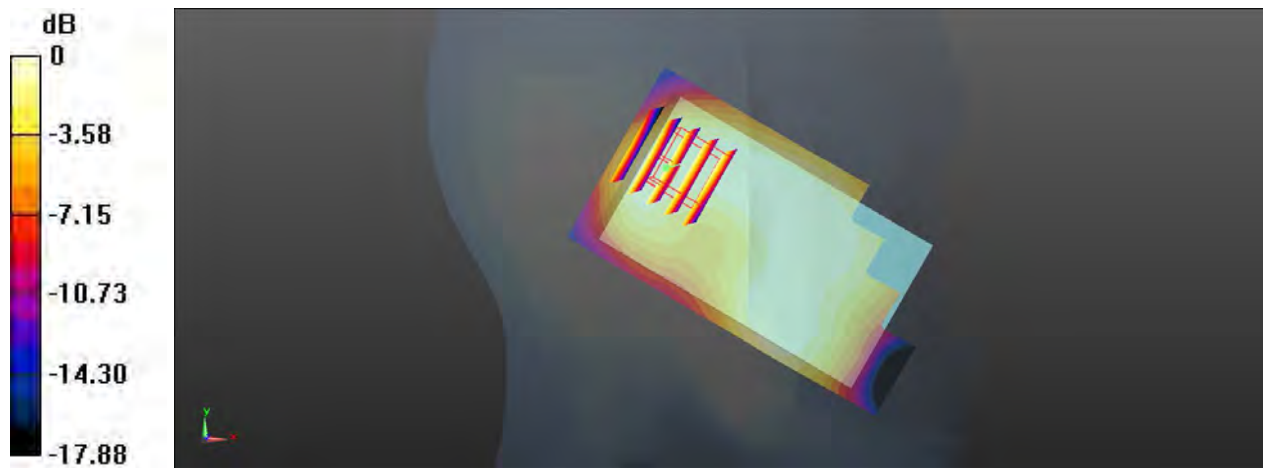
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.160 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.112 W/kg

Maximum value of SAR (measured) = 0.226 W/kg



0 dB = 0.226 W/kg

98 WCDMA Band IV_RMC 12.2K_Right Cheek_Ch1413

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL_1750_140224 Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 38.924$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch413/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.15 W/kg

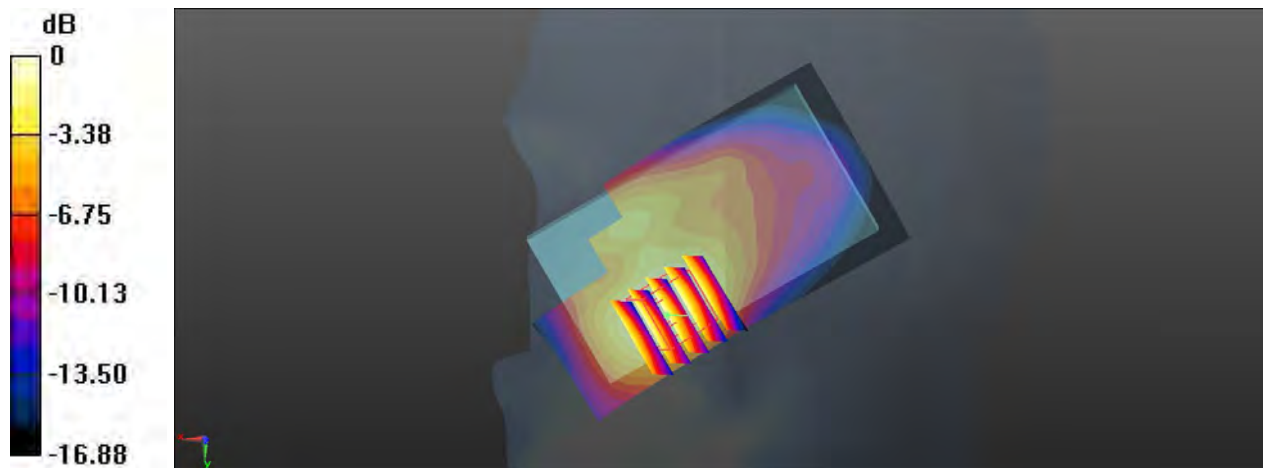
Ch413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.883 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.874 W/kg; SAR(10 g) = 0.545 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg

99 WCDMA Band IV_RMC 12.2K_Right Cheek_Ch1513

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

Medium: HSL_1750_140224 Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.378$ S/m; $\epsilon_r = 38.824$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1513/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.949 W/kg

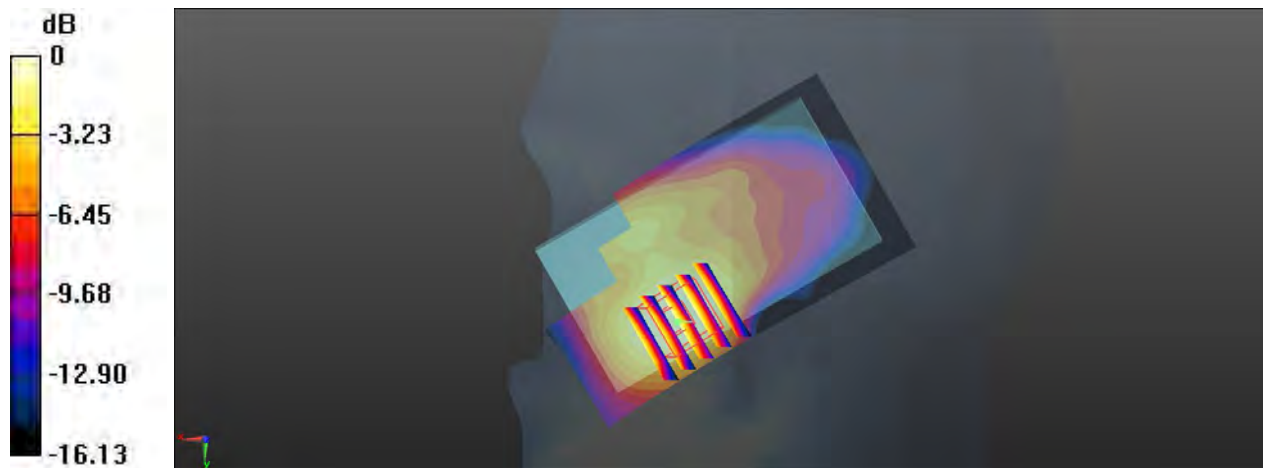
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.834 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.434 W/kg

Maximum value of SAR (measured) = 0.887 W/kg



0 dB = 0.887 W/kg

100 WCDMA Band IV_RMC 12.2K_Left Cheek_Ch1413

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL_1750_140224 Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 38.924$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1413/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.47 W/kg

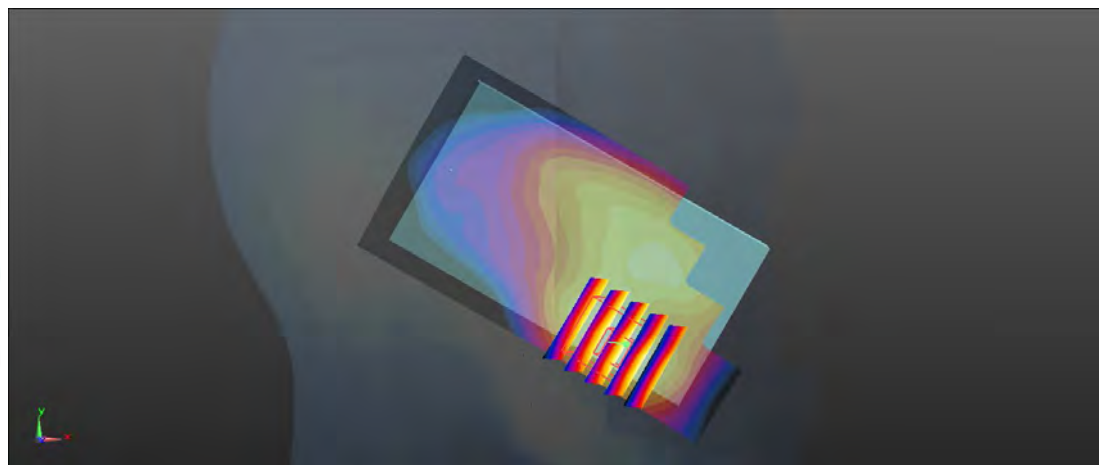
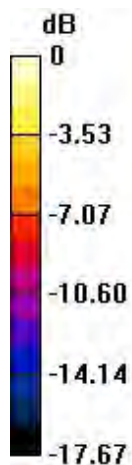
Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.282 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.591 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg

93 WCDMA Band IV_RMC 12.2K_Left Cheek_Ch1413_Repeat SAR

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL_1750_140224 Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 38.924$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1413/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.49 W/kg

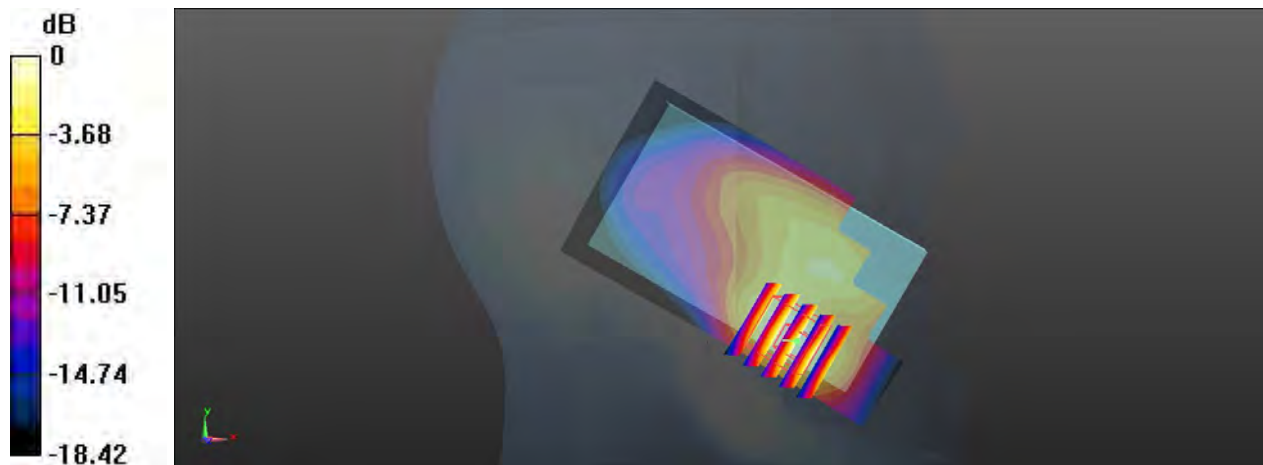
Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.785 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.584 W/kg

Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 1.49 W/kg

101 WCDMA Band IV_RMC 12.2K_Left Cheek_Ch1513

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

Medium: HSL_1750_140224 Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.378$ S/m; $\epsilon_r = 38.824$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.59, 8.59, 8.59); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1513/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.27 W/kg

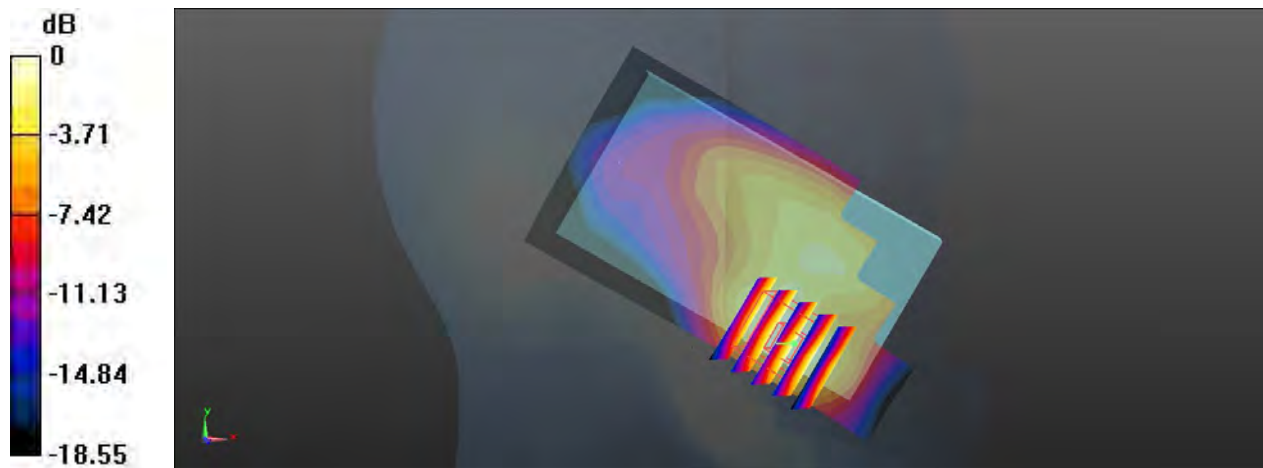
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.878 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.922 W/kg; SAR(10 g) = 0.501 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg

50 WCDMA Band II_RMC 12.2K_Right Cheek_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140221 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.353$ S/m; $\epsilon_r = 39.378$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.18 W/kg

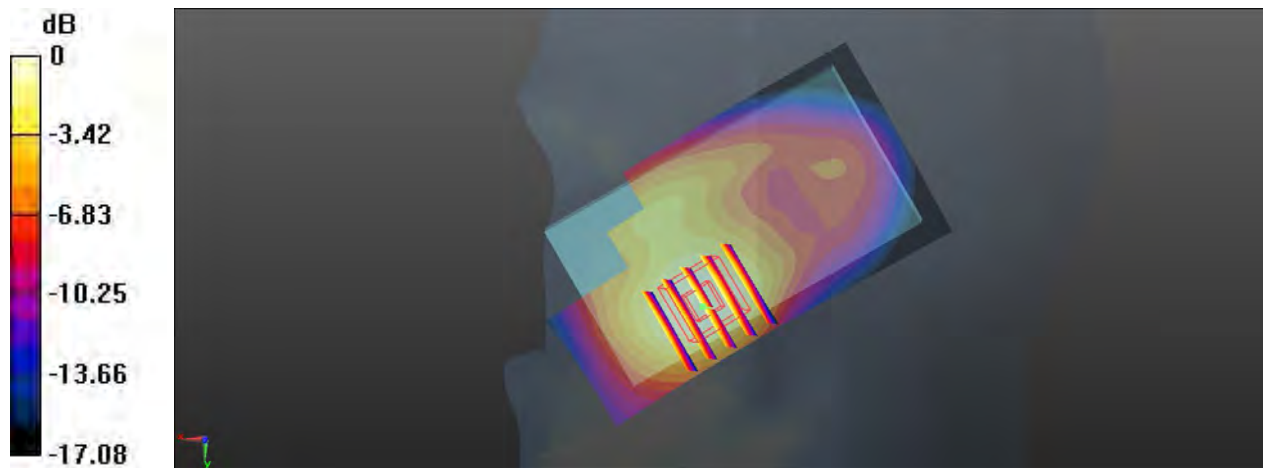
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.830 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.553 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg

51 WCDMA Band II_RMC 12.2K_Right Tilted_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140221 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.353$ S/m; $\epsilon_r = 39.378$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.468 W/kg

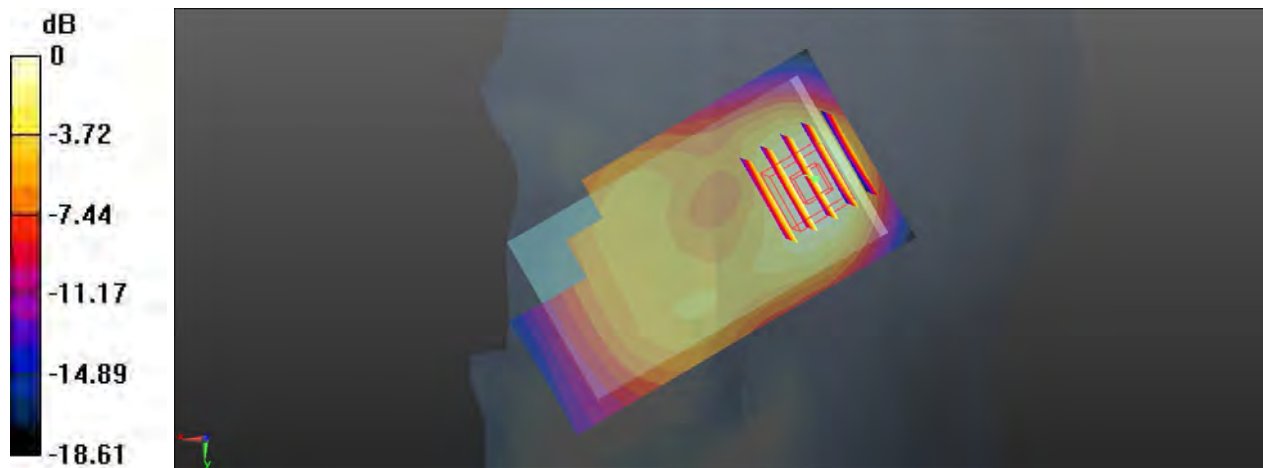
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.019 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.509 W/kg

SAR(1 g) = 0.325 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 0.423 W/kg



0 dB = 0.423 W/kg

52 WCDMA Band II_RMC 12.2K_Left Cheek_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140221 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.353$ S/m; $\epsilon_r = 39.378$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.36 W/kg

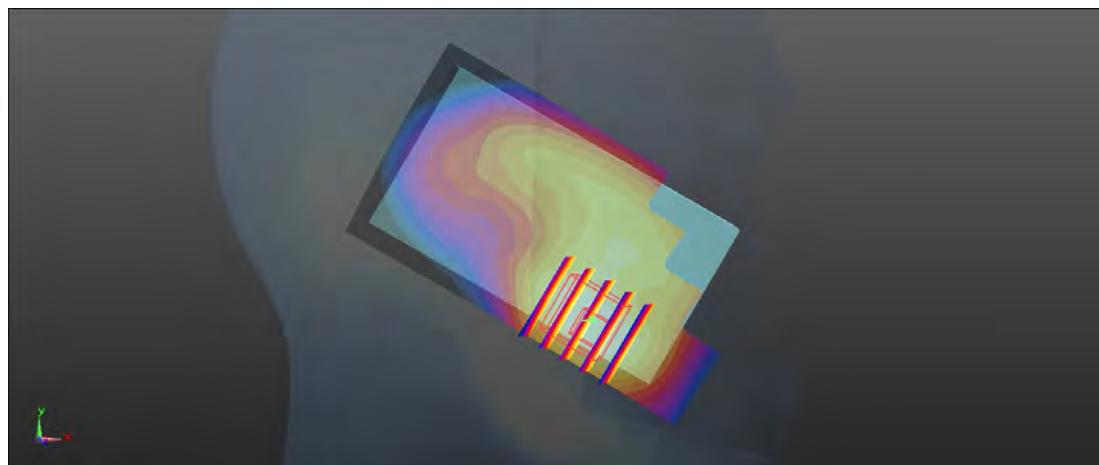
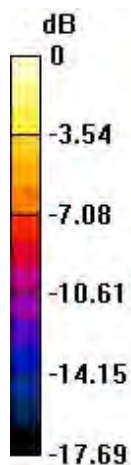
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.973 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.546 W/kg

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg

53 WCDMA Band II_RMC 12.2K_Left Tilted_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140221 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.353$ S/m; $\epsilon_r = 39.378$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.461 W/kg

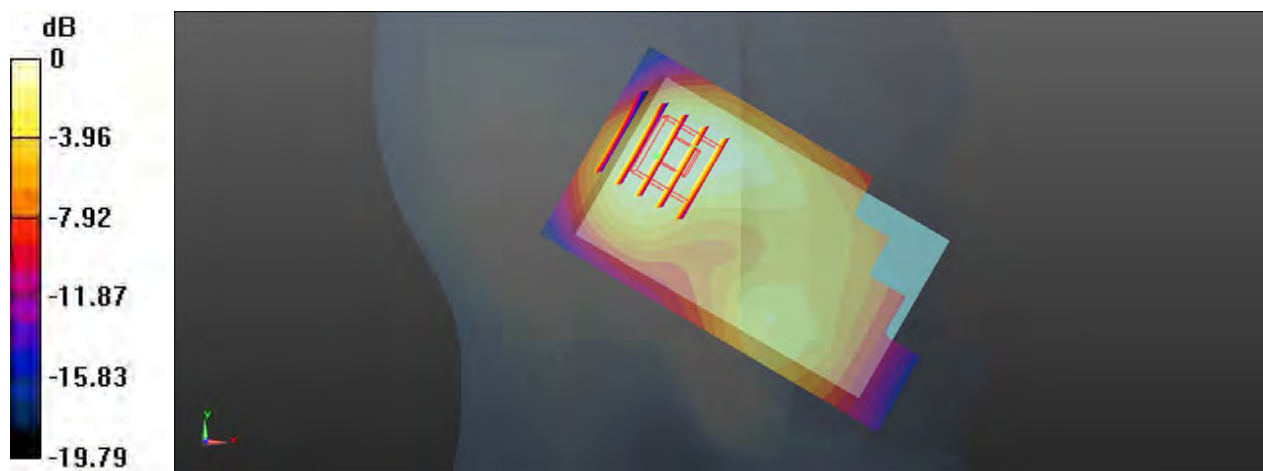
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.277 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 0.409 W/kg



0 dB = 0.409 W/kg

54 WCDMA Band II_RMC 12.2K_Right Cheek_Ch9400

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140221 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 39.308$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9400/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.22 W/kg

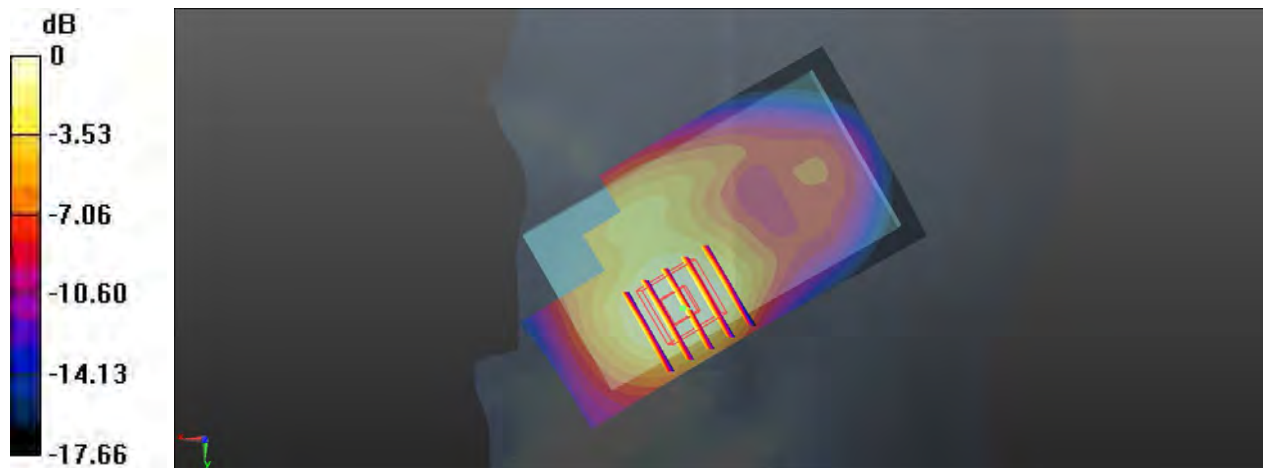
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.853 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.570 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg

55 WCDMA Band II_RMC 12.2K_Right Cheek_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140221 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 39.311$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9538/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.19 W/kg

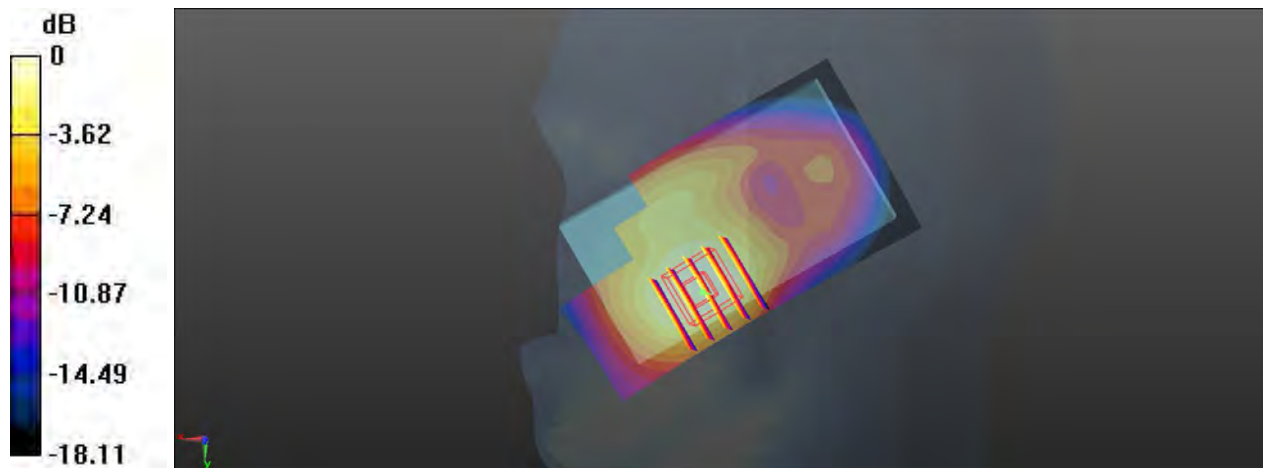
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.546 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.885 W/kg; SAR(10 g) = 0.552 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg

56 WCDMA Band II_RMC 12.2K_Left Cheek_Ch9400

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140221 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 39.308$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9400/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.32 W/kg

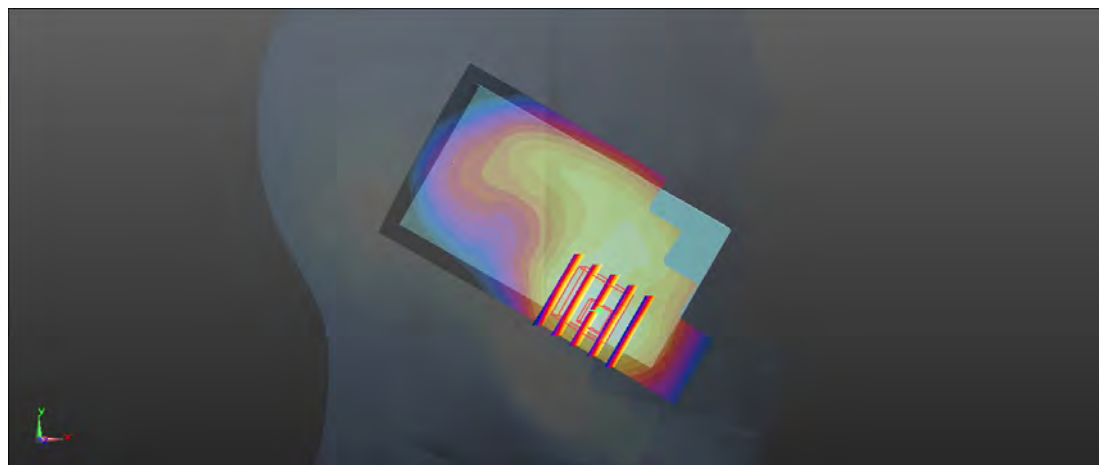
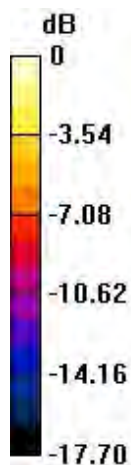
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.386 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.967 W/kg; SAR(10 g) = 0.555 W/kg

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg

57 WCDMA Band II_RMC 12.2K_Left Cheek_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140221 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 39.311$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.25, 8.25, 8.25); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9538/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.22 W/kg

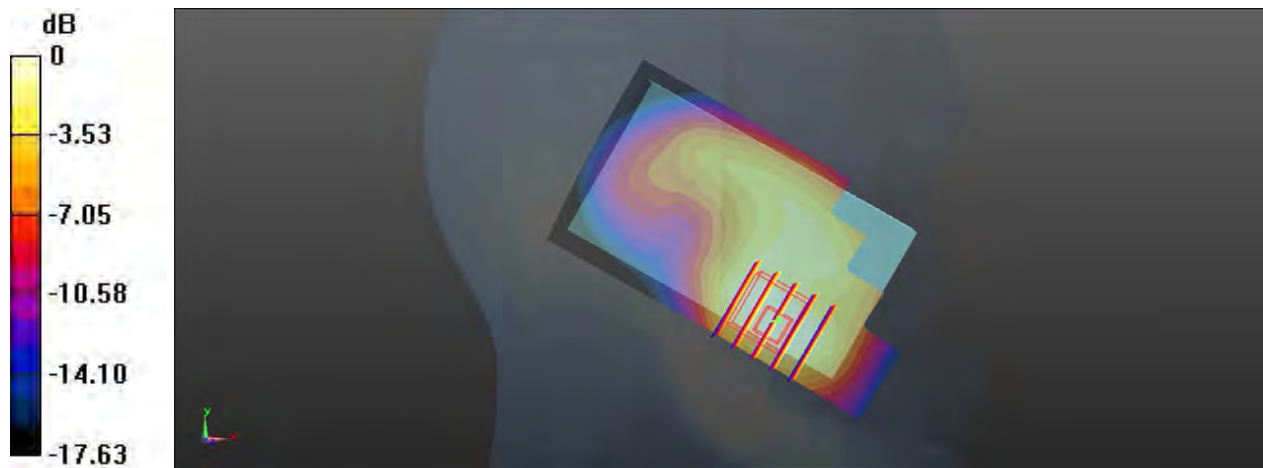
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.125 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.885 W/kg; SAR(10 g) = 0.510 W/kg

Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg

74 WLAN 2.4GHz_802.11b_Right Cheek_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: HSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 37.678$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.22, 7.22, 7.22); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (71x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.193 W/kg

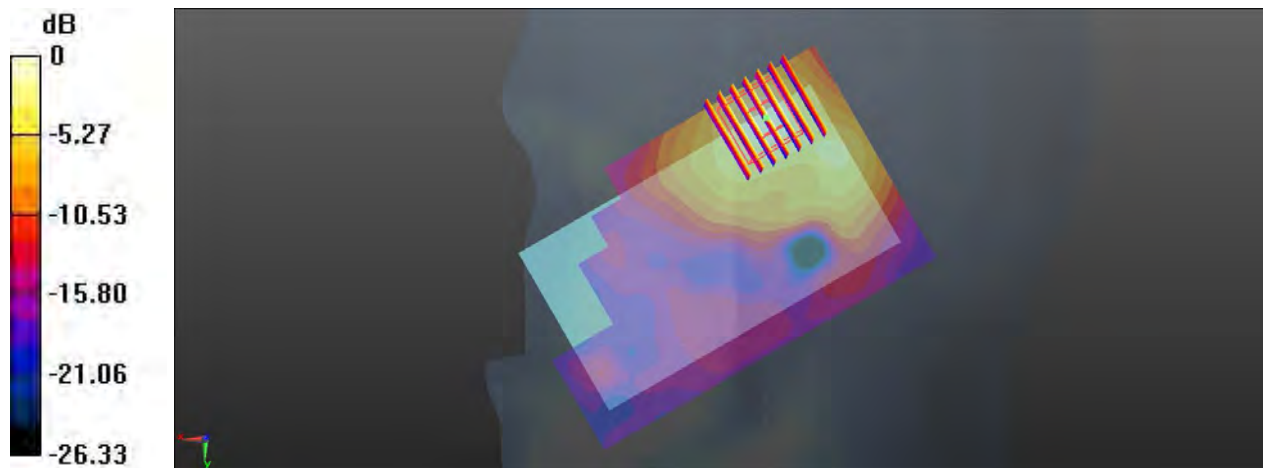
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.955 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.050 W/kg

Maximum value of SAR (measured) = 0.187 W/kg



0 dB = 0.187 W/kg

75 WLAN 2.4GHz_802.11b_Right Tilted_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: HSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 37.678$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.22, 7.22, 7.22); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (71x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.117 W/kg

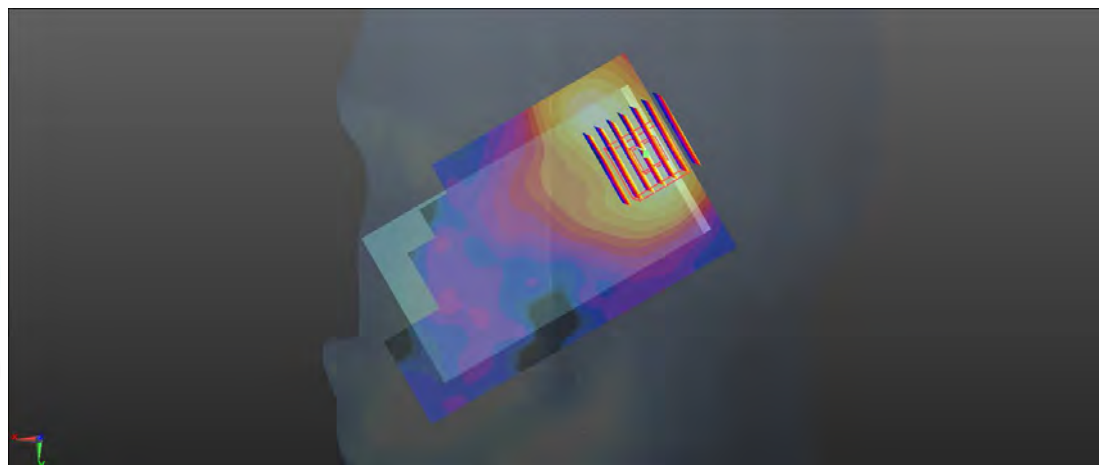
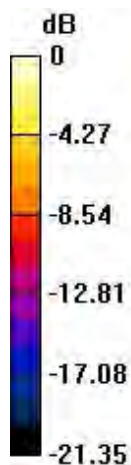
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.721 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.038 W/kg

Maximum value of SAR (measured) = 0.116 W/kg



0 dB = 0.116 W/kg

76 WLAN 2.4GHz_802.11b_Left Cheek_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: HSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 37.678$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.22, 7.22, 7.22); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (71x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0999 W/kg

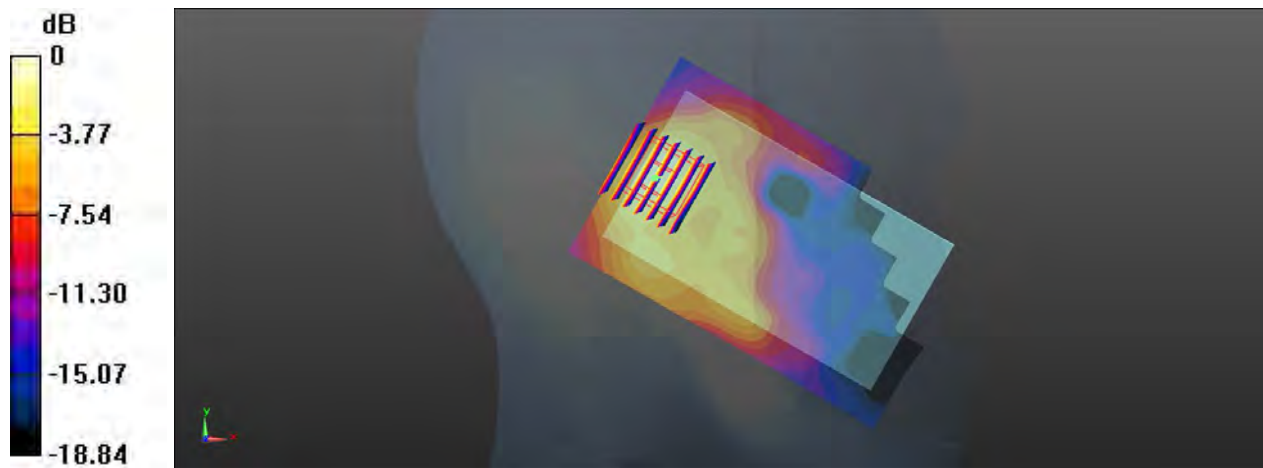
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.348 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.0992 W/kg



0 dB = 0.0992 W/kg

77 WLAN 2.4GHz_802.11b_Left Tilted_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: HSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 37.678$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.22, 7.22, 7.22); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (71x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.119 W/kg

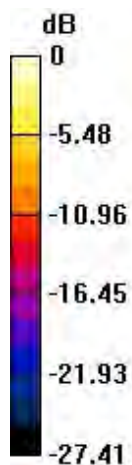
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.742 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.037 W/kg

Maximum value of SAR (measured) = 0.111 W/kg



0 dB = 0.111 W/kg

19 GSM850_GPRS (GMSK 2 Tx slot)_Front_1.0cm_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15
Medium: MSL_835_140220 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.144$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.10 W/kg

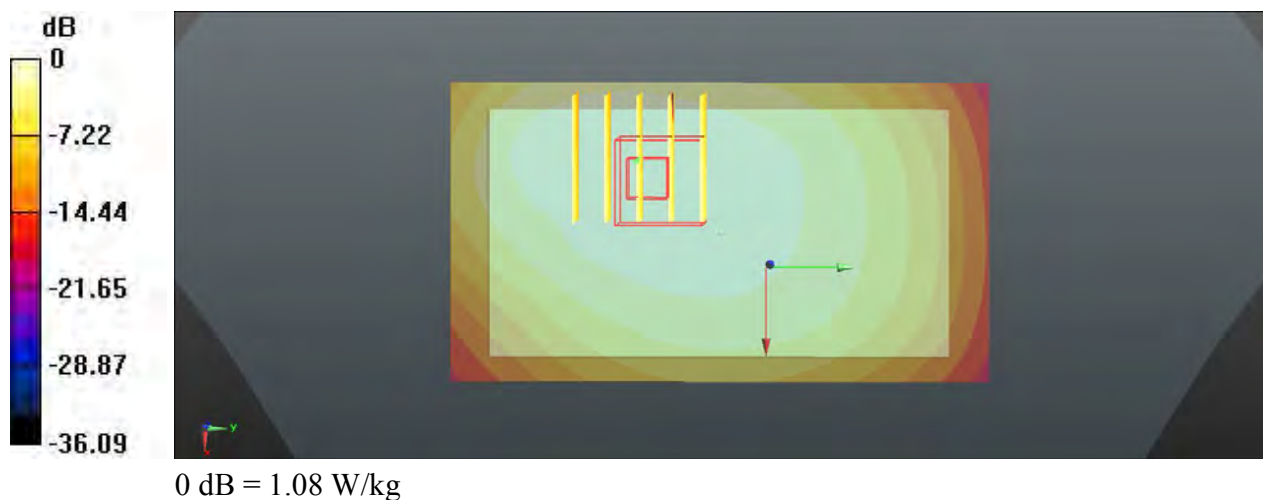
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.952 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.655 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



20 GSM850_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.144$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.17 W/kg

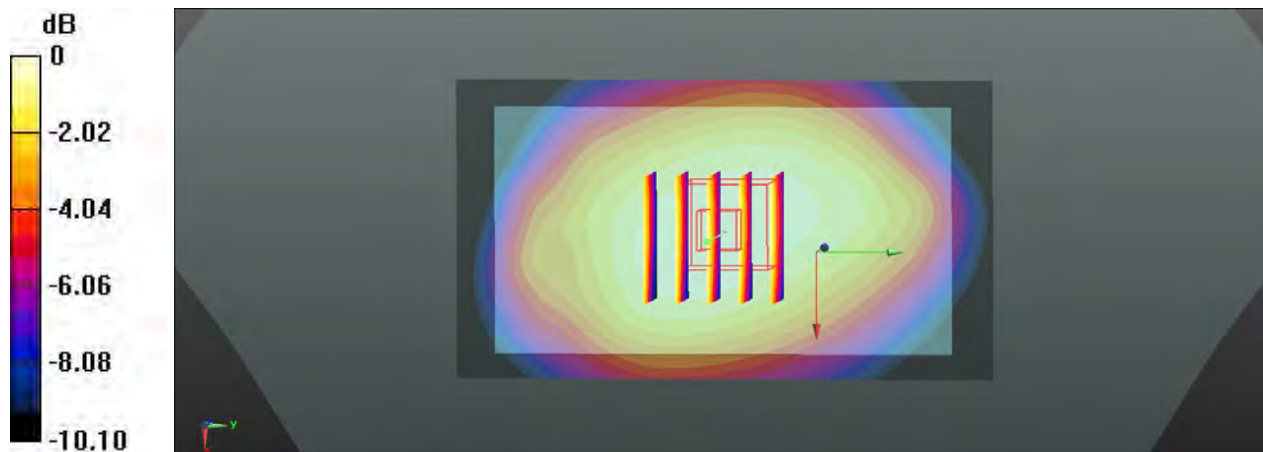
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.838 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.762 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg

21 GSM850_GPRS (GMSK 2 Tx slot)_Left side_1.0cm_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.144$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.858 W/kg

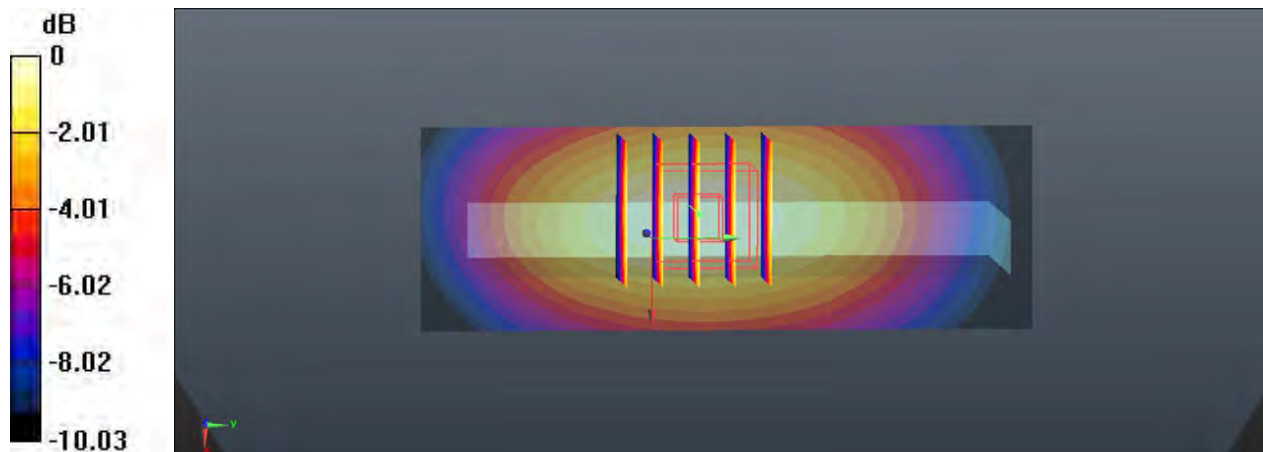
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.300 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.999 W/kg

SAR(1 g) = 0.699 W/kg; SAR(10 g) = 0.479 W/kg

Maximum value of SAR (measured) = 0.861 W/kg



0 dB = 0.861 W/kg

22 GSM850_GPRS (GMSK 2 Tx slot)_Right side_1.0cm_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.144$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.775 W/kg

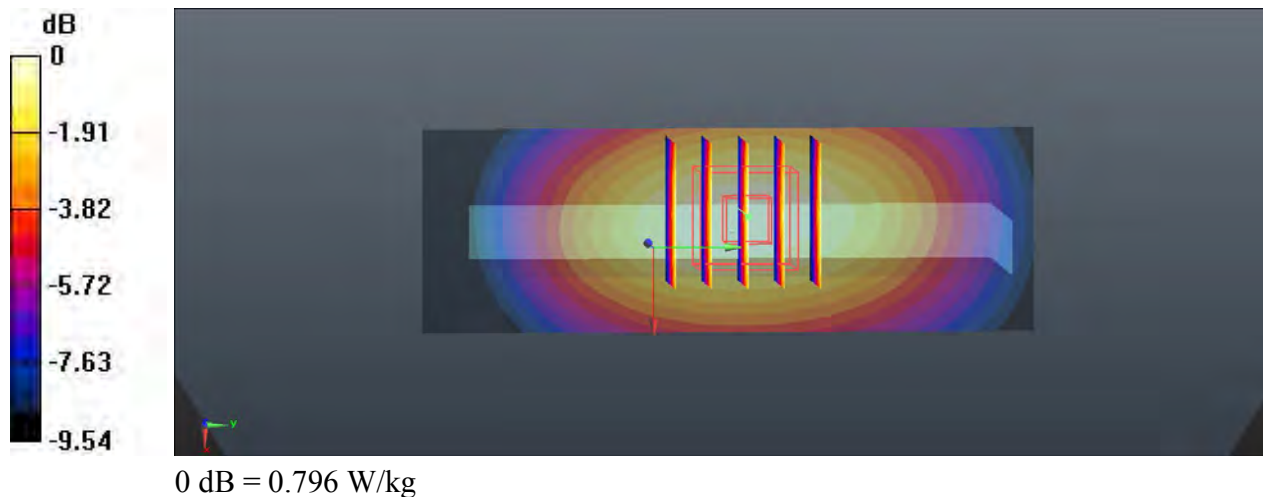
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.004 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.933 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.448 W/kg

Maximum value of SAR (measured) = 0.796 W/kg



23 GSM850_GPRS (GMSK 2 Tx slot)_Bottom side_1.0cm_Ch251

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.144$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (31x51x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.129 W/kg

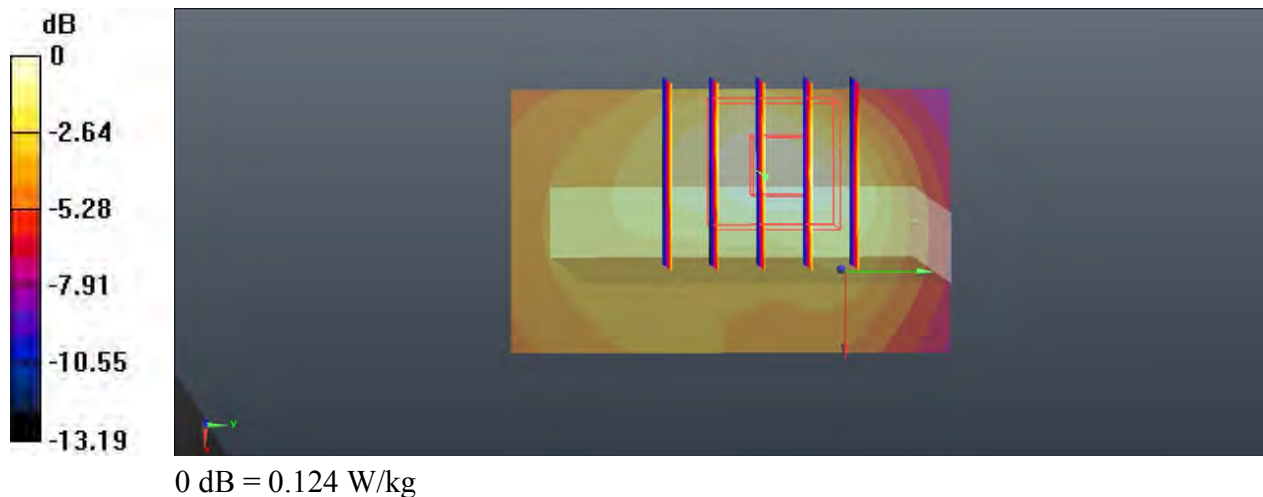
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.419 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.124 W/kg



24 GSM850_GPRS (GMSK 2 Tx slot)_Front_1.0cm_Ch128

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.964$ S/m; $\epsilon_r = 54.349$;

$\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch128/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.06 W/kg

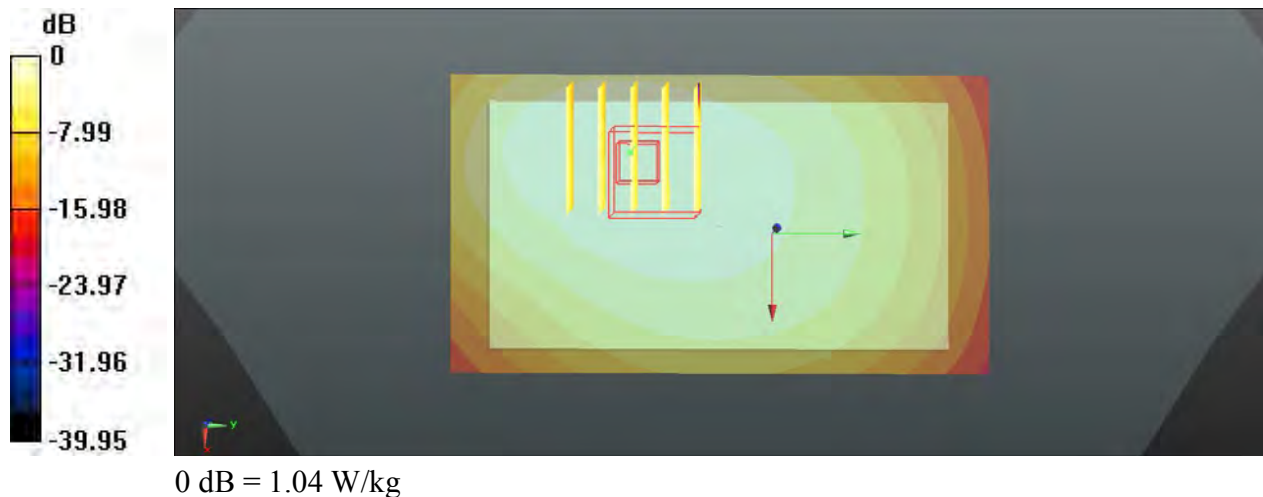
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.518 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.850 W/kg; SAR(10 g) = 0.611 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



25 GSM850_GPRS (GMSK 2 Tx slot)_Front_1.0cm_Ch189

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 836.4 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$;

$\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch189/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 W/kg

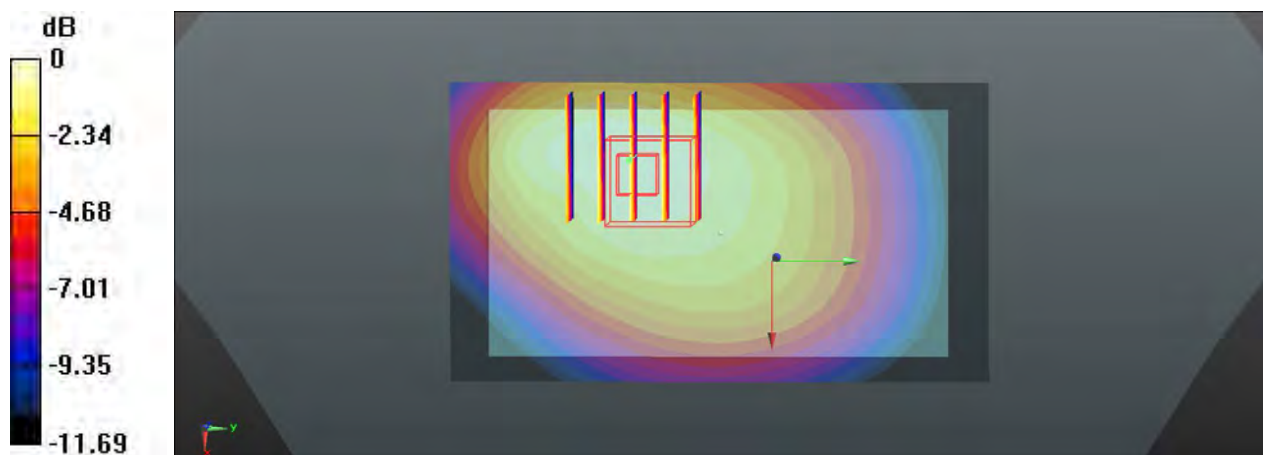
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.584 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.657 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg

26 GSM850_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch128

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.964$ S/m; $\epsilon_r = 54.349$;

$\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch128/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.38 W/kg

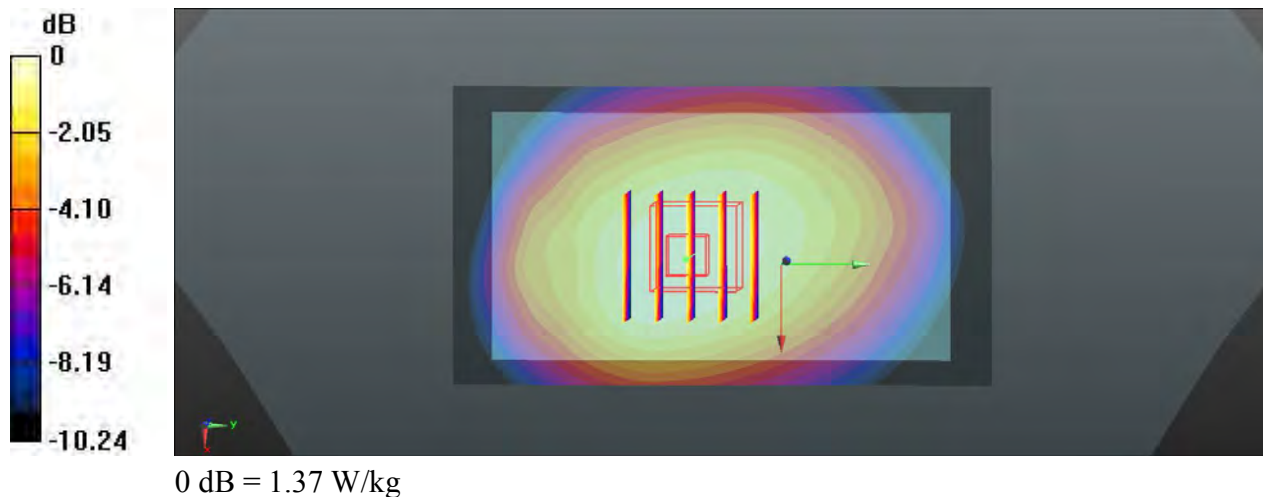
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.827 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.873 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



45 GSM850_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch128_Repeat SAR

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.964$ S/m; $\epsilon_r = 54.349$;

$\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch128/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.39 W/kg

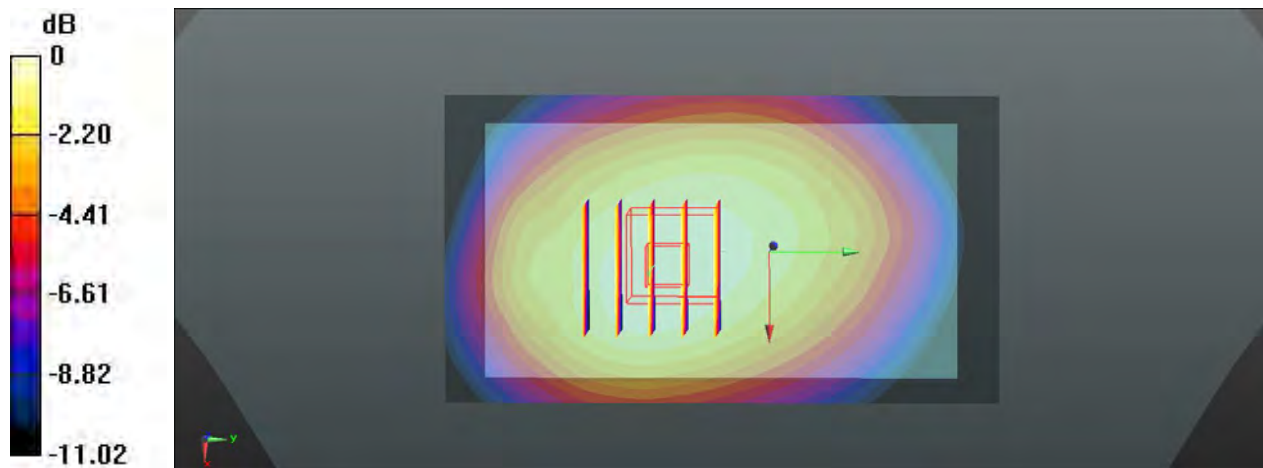
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.528 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.865 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg

27 GSM850_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch189

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 836.4 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$;

$\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch189/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.30 W/kg

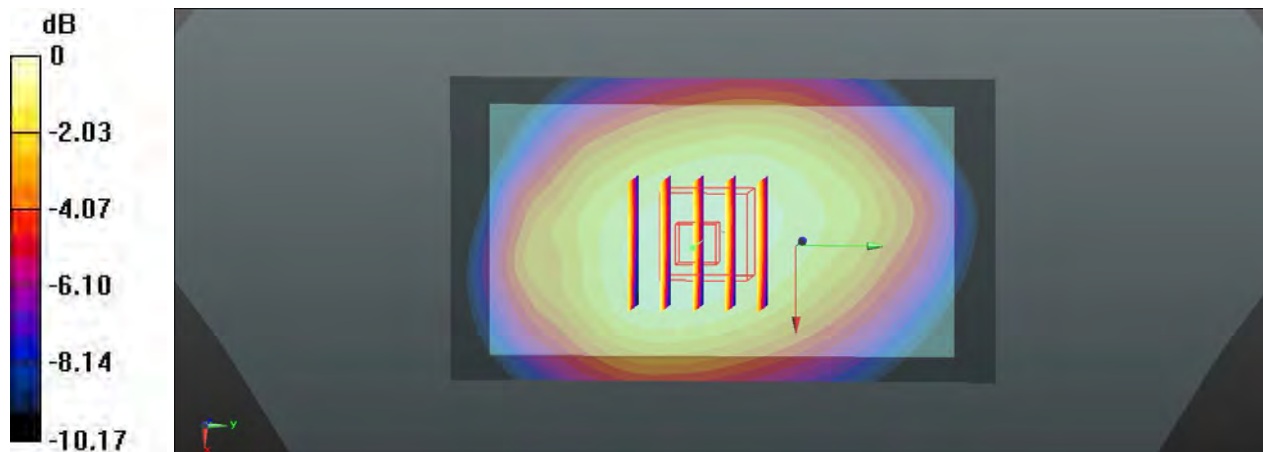
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.388 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.836 W/kg

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg

28 GSM850_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch128_Headset

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.964$ S/m; $\epsilon_r = 54.349$;

$\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch128/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.18 W/kg

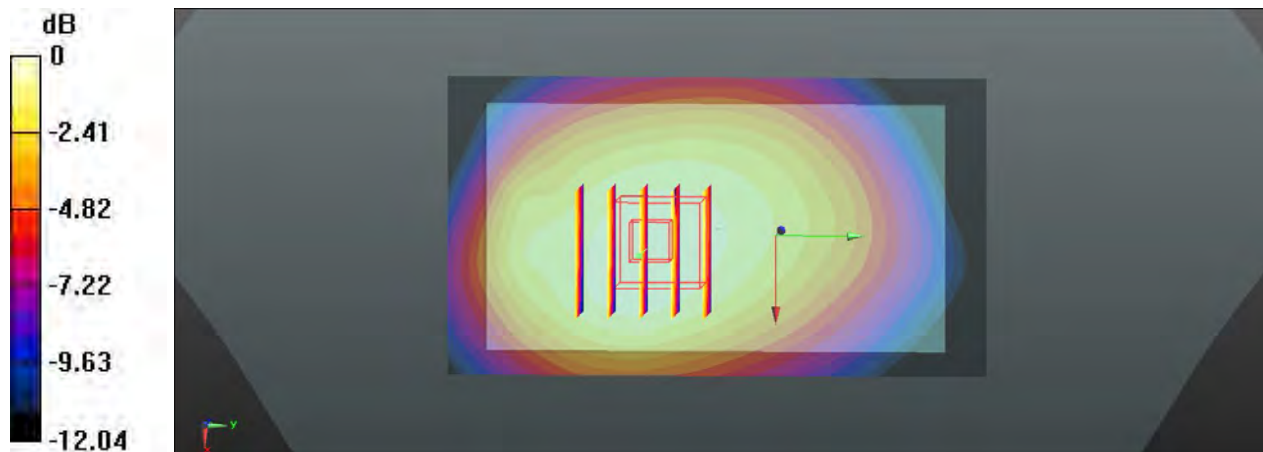
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.508 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.982 W/kg; SAR(10 g) = 0.714 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg

29 GSM850_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch189_Headset

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 836.4 MHz; Duty Cycle: 1:4.15

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$;

$\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch189/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.11 W/kg

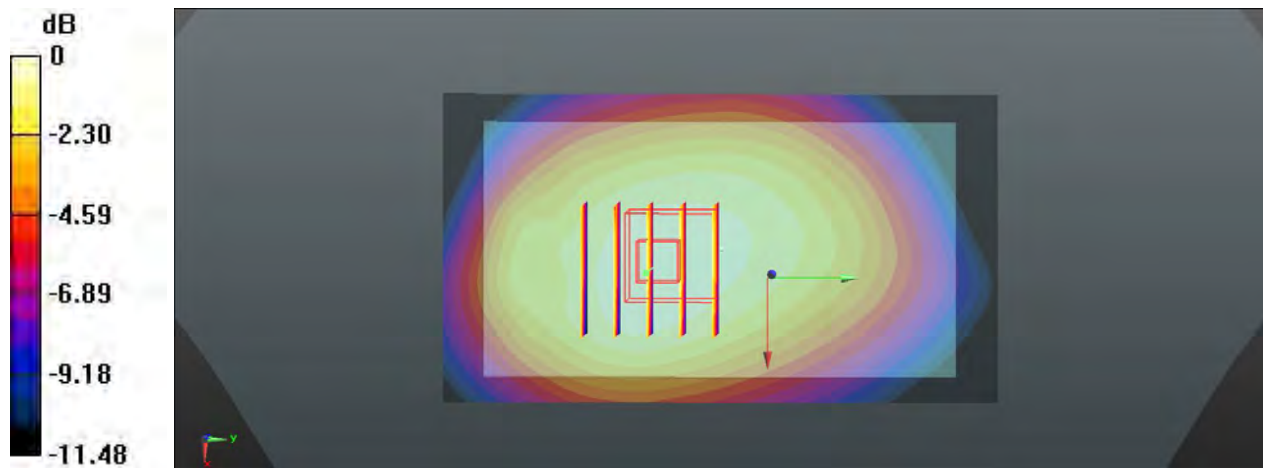
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.605 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.943 W/kg; SAR(10 g) = 0.698 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg

30 GSM850_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch251_Headset

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:4.15
Medium: MSL_835_140220 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.144$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch251/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.982 W/kg

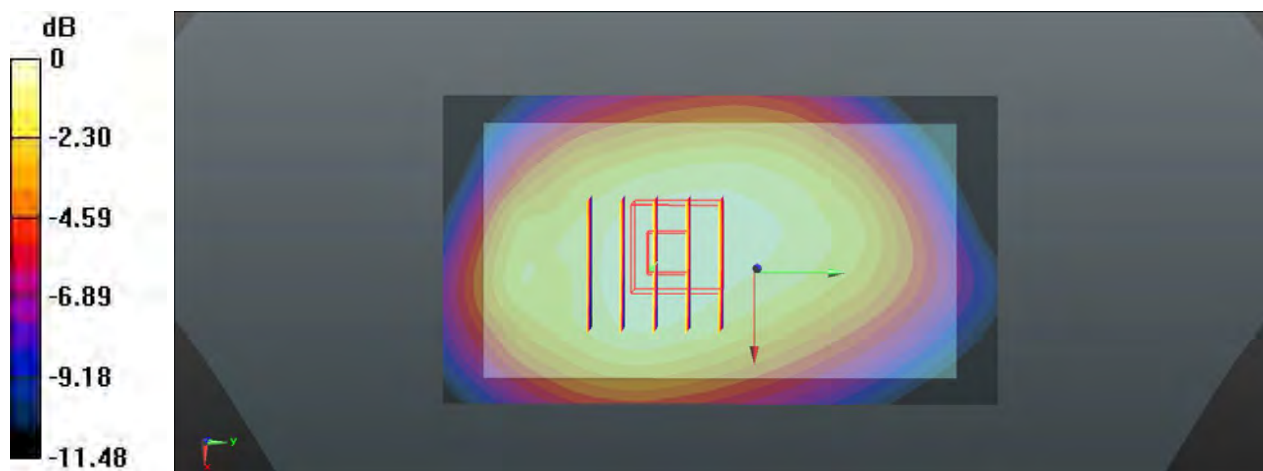
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.371 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.633 W/kg

Maximum value of SAR (measured) = 0.992 W/kg



0 dB = 0.992 W/kg

13 GSM1900_GPRS (GMSK 2 Tx slot)_Front_1.0cm_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_1900_140219 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 54.607$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.437 W/kg

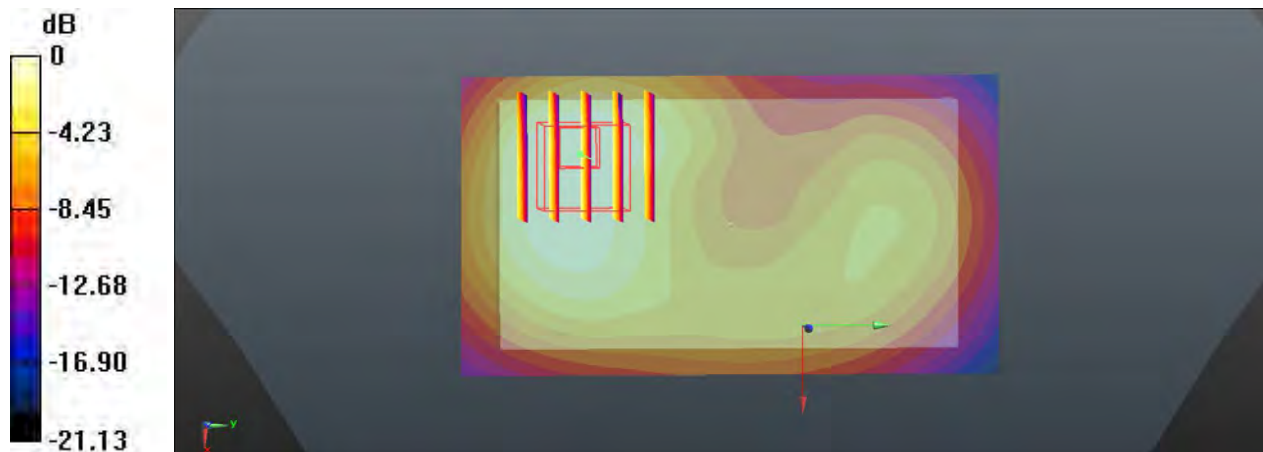
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.728 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.389 W/kg



0 dB = 0.389 W/kg

14 GSM1900_GPRS (GMSK 2 Tx slot)_Back_1.0cm_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_1900_140219 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 54.607$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.637 W/kg

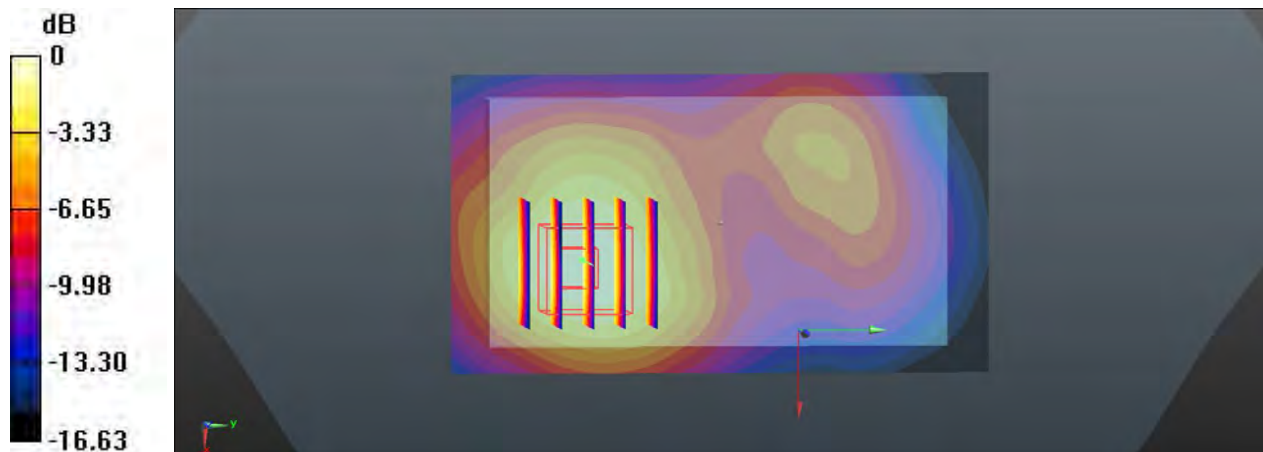
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.826 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.804 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.638 W/kg



0 dB = 0.638 W/kg

15 GSM1900_GPRS (GMSK 2 Tx slot)_Left side_1.0cm_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_1900_140219 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 54.607$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.131 W/kg

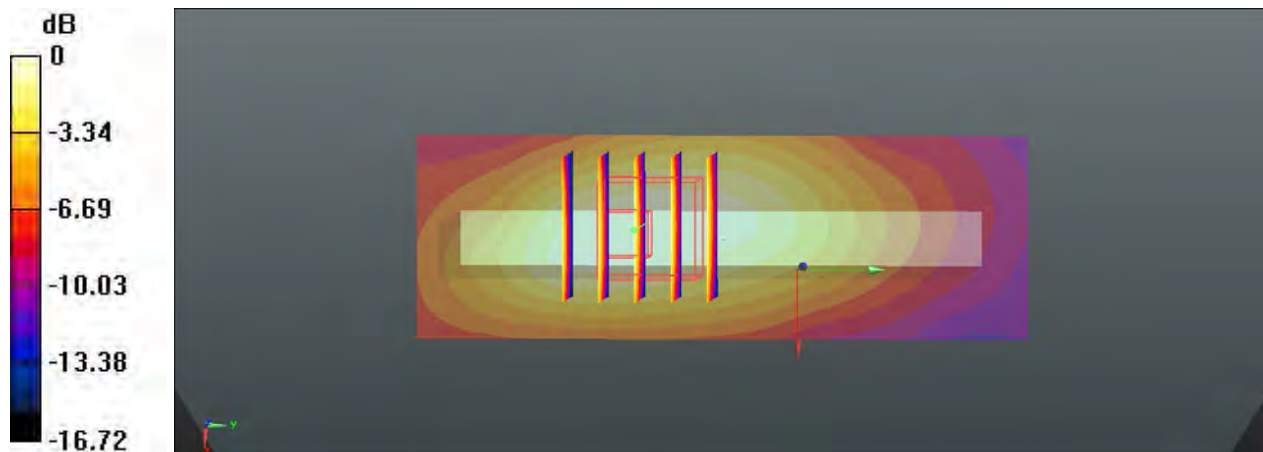
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.819 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.127 W/kg

16 GSM1900_GPRS (GMSK 2 Tx slot)_Right side_1.0cm_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_1900_140219 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 54.607$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.0898 W/kg

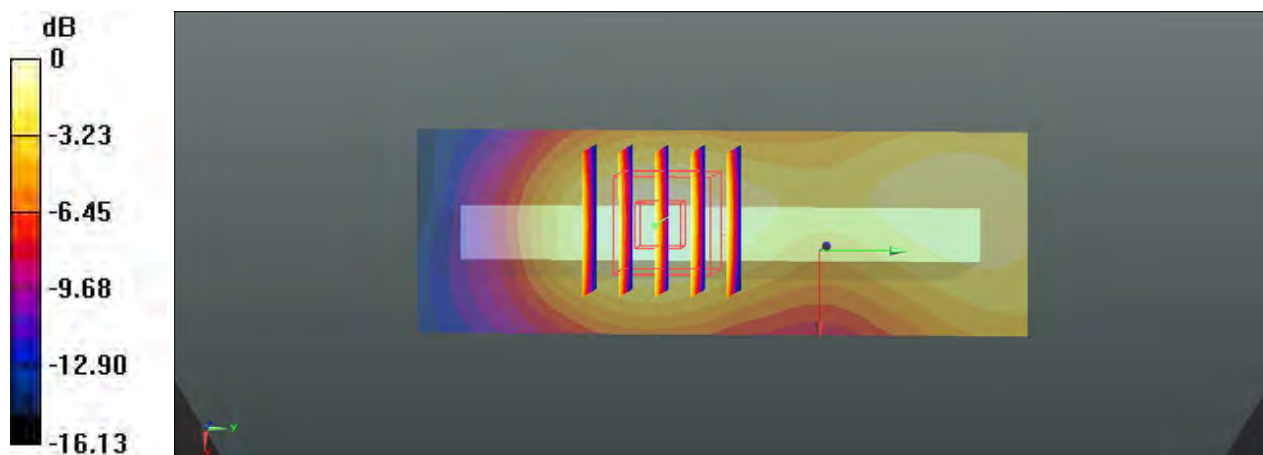
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.422 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.108 W/kg

SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.040 W/kg

Maximum value of SAR (measured) = 0.0879 W/kg



0 dB = 0.0879 W/kg

17 GSM1900_GPRS (GMSK 2 Tx slot)_Bottom side_1.0cm_Ch512

Communication System: GPRS/EDGE (2 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: MSL_1900_140219 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 54.607$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch512/Area Scan (31x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.298 W/kg

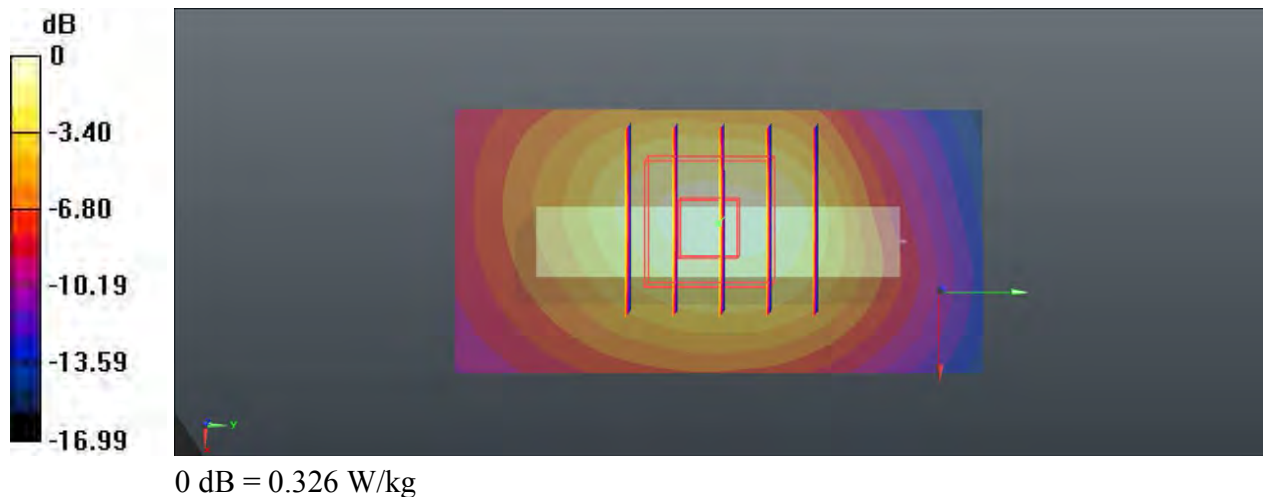
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.701 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.326 W/kg



31 WCDMA Band V_RMC 12.2K_Front_1.0cm_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.10 W/kg

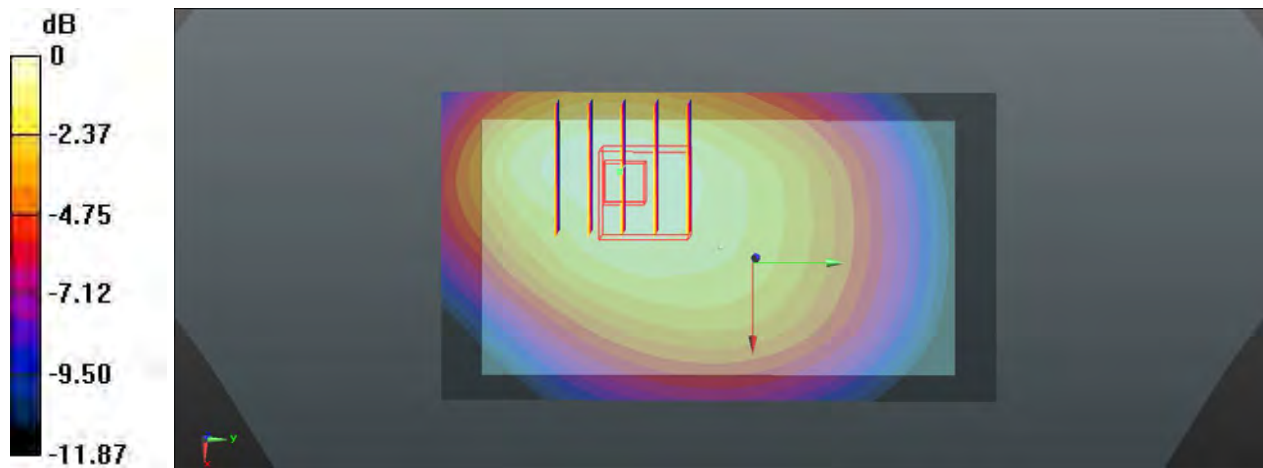
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.356 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.891 W/kg; SAR(10 g) = 0.644 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg

32 WCDMA Band V_RMC 12.2K_Back_1.0cm_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.22 W/kg

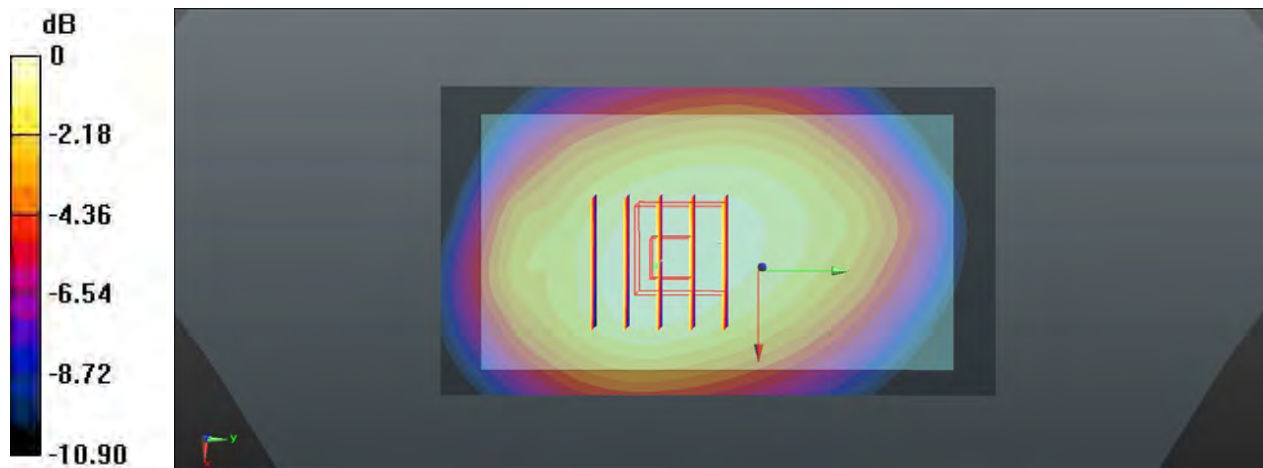
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.768 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.771 W/kg

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg

33 WCDMA Band V_RMC 12.2K_Left side_1.0cm_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.876 W/kg

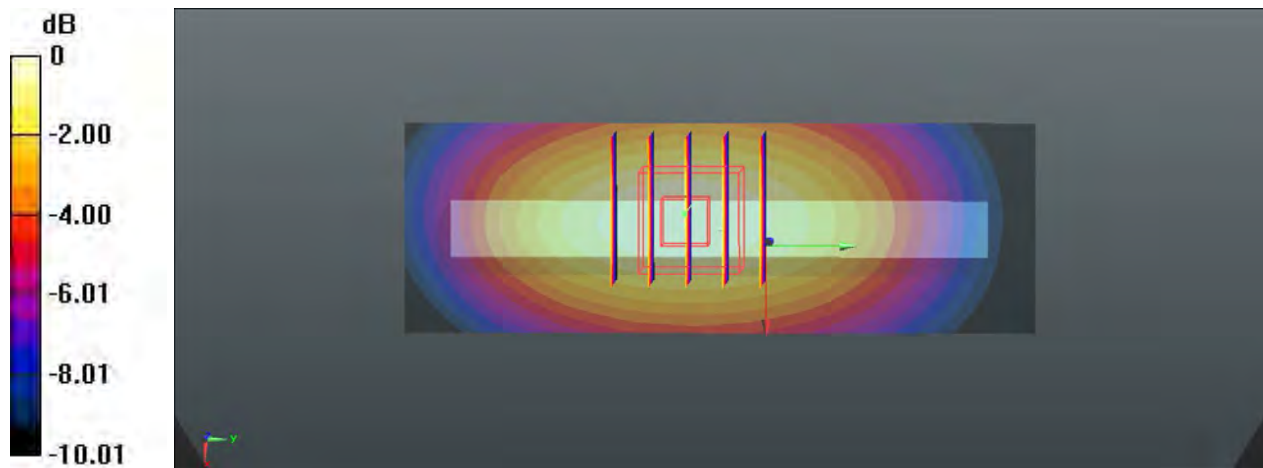
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.642 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.715 W/kg; SAR(10 g) = 0.490 W/kg

Maximum value of SAR (measured) = 0.879 W/kg



0 dB = 0.879 W/kg

34 WCDMA Band V_RMC 12.2K_Right side_1.0cm_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.753 W/kg

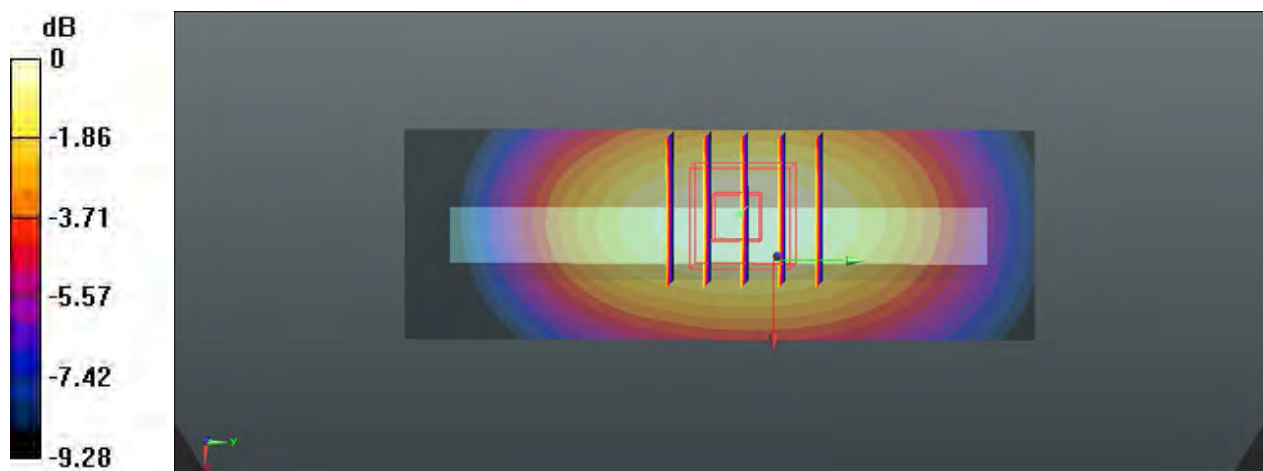
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.764 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.858 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.428 W/kg

Maximum value of SAR (measured) = 0.747 W/kg



0 dB = 0.747 W/kg

35 WCDMA Band V_RMC 12.2K_Bottom side_1.0cm_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (31x51x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.135 W/kg

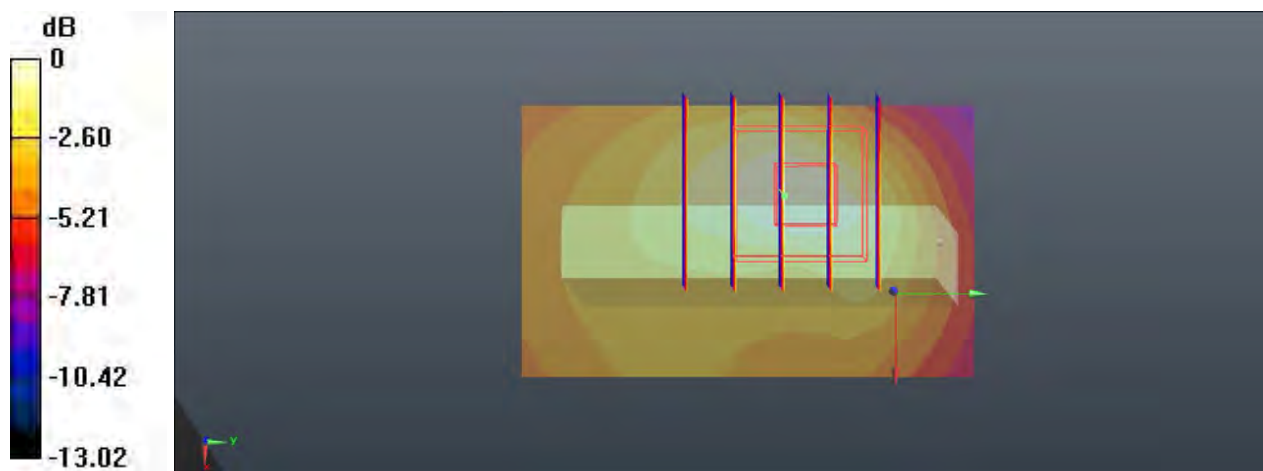
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.752 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.166 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.056 W/kg

Maximum value of SAR (measured) = 0.130 W/kg



0 dB = 0.130 W/kg

36 WCDMA Band V_RMC 12.2K_Front_1.0cm_Ch4132

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

Medium: MSL_835_140220 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 54.331$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4132/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.824 W/kg

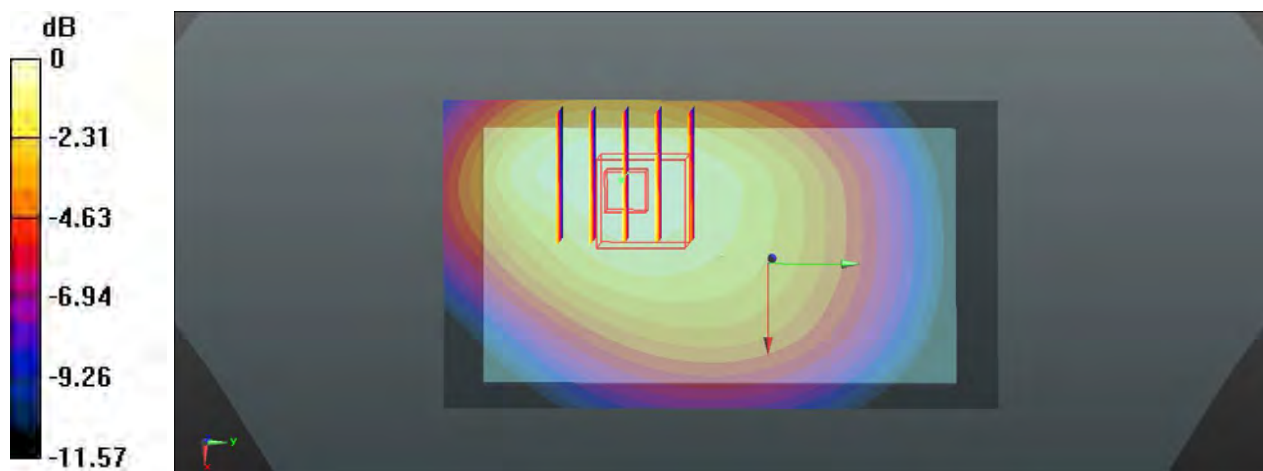
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.126 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.953 W/kg

SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.480 W/kg

Maximum value of SAR (measured) = 0.811 W/kg



0 dB = 0.811 W/kg

37 WCDMA Band V_RMC 12.2K_Front_1.0cm_Ch4233

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

Medium: MSL_835_140220 Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 54.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4233/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 W/kg

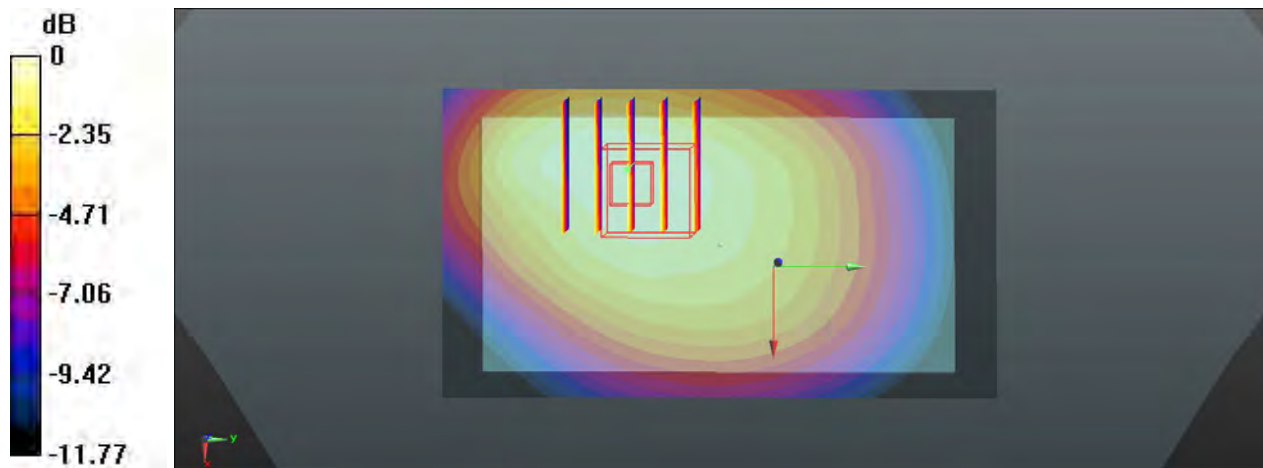
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.208 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.814 W/kg; SAR(10 g) = 0.591 W/kg

Maximum value of SAR (measured) = 0.980 W/kg



0 dB = 0.980 W/kg

38 WCDMA Band V_RMC 12.2K_Back_1.0cm_Ch4132

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

Medium: MSL_835_140220 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 54.331$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4132/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.20 W/kg

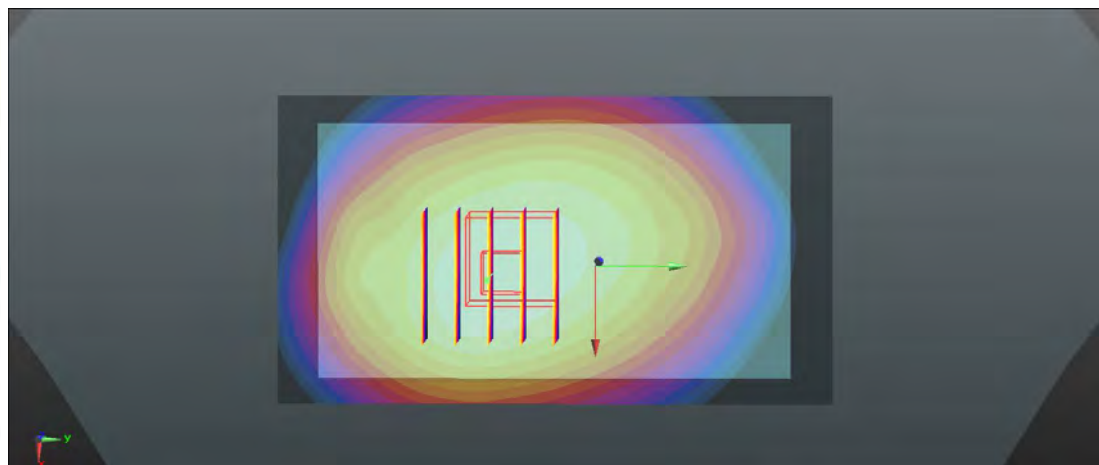
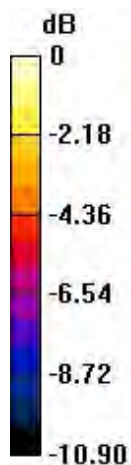
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.101 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.753 W/kg

Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg

39 WCDMA Band V_RMC 12.2K_Back_1.0cm_Ch4233

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

Medium: MSL_835_140220 Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 54.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4233/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.20 W/kg

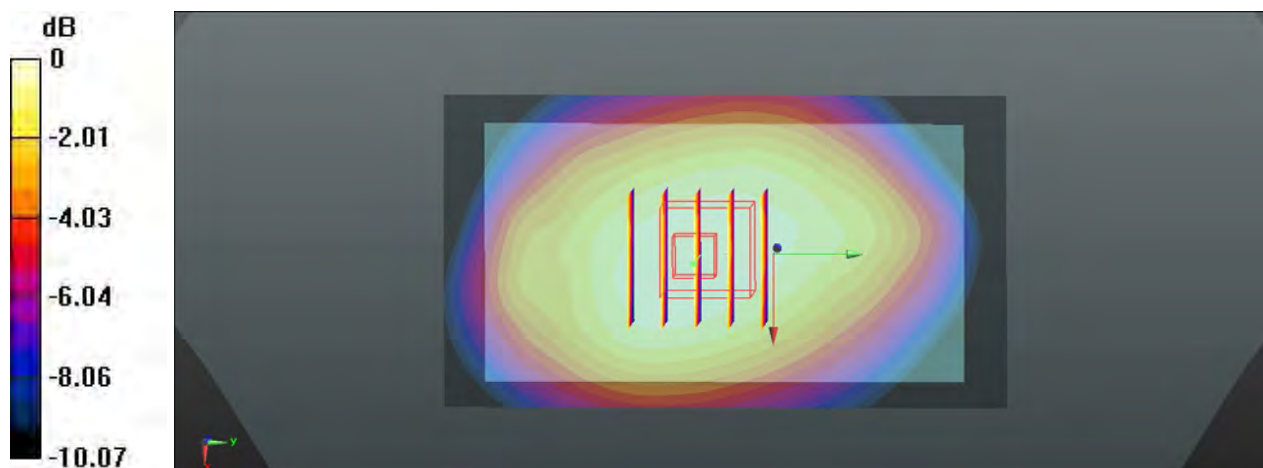
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.999 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.772 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg

40 WCDMA Band V_RMC 12.2K_Left side_1.0cm_Ch4132

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

Medium: MSL_835_140220 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 54.331$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4132/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.633 W/kg

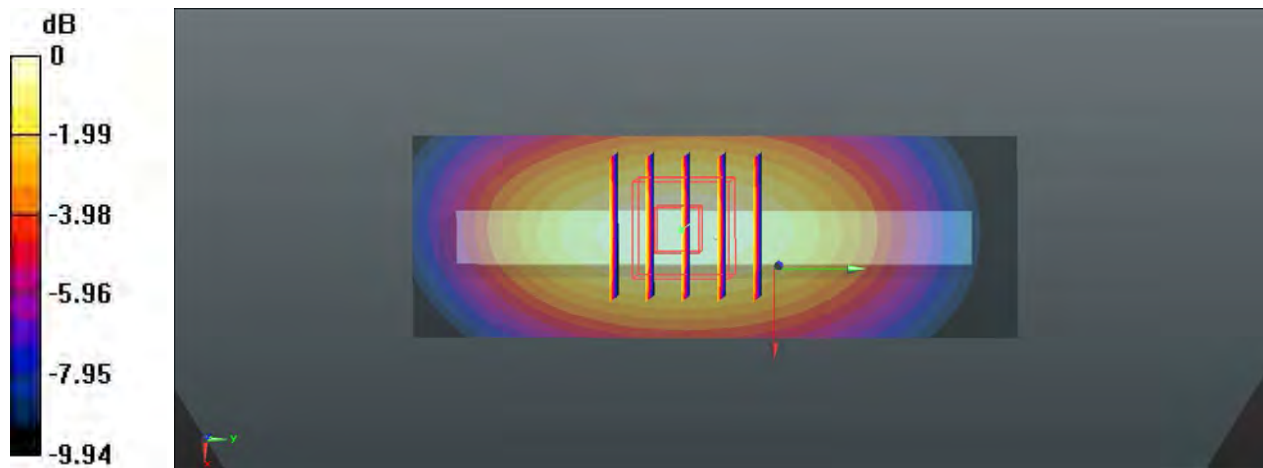
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.497 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.744 W/kg

SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.356 W/kg

Maximum value of SAR (measured) = 0.639 W/kg



0 dB = 0.639 W/kg

41 WCDMA Band V_RMC 12.2K_Left side_1.0cm_Ch4233

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

Medium: MSL_835_140220 Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 54.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4233/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.774 W/kg

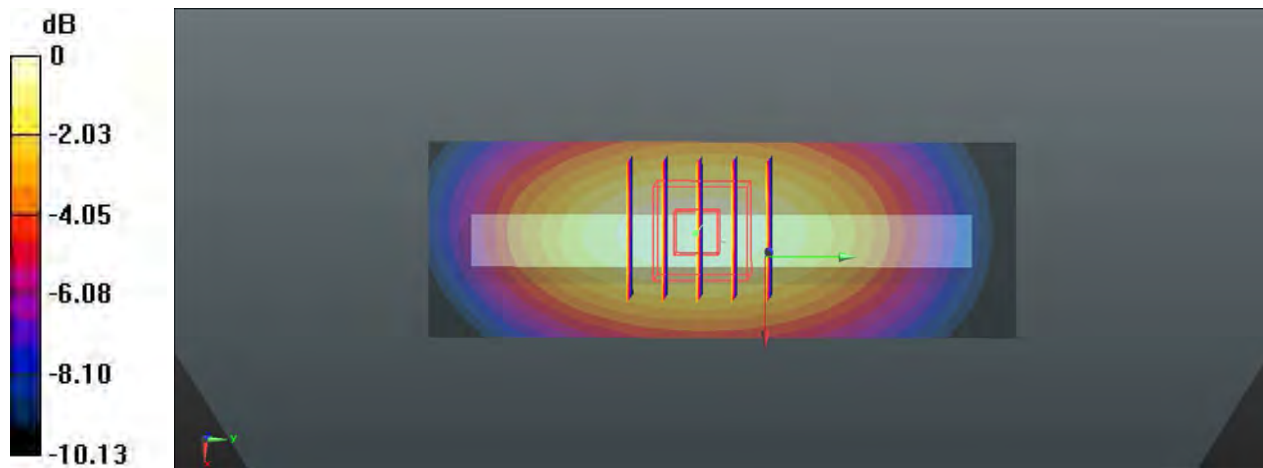
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.154 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.917 W/kg

SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.438 W/kg

Maximum value of SAR (measured) = 0.791 W/kg



0 dB = 0.791 W/kg

42 WCDMA Band V_RMC 12.2K_Back_1.0cm_Ch4233_Headset

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

Medium: MSL_835_140220 Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 54.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4233/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.951 W/kg

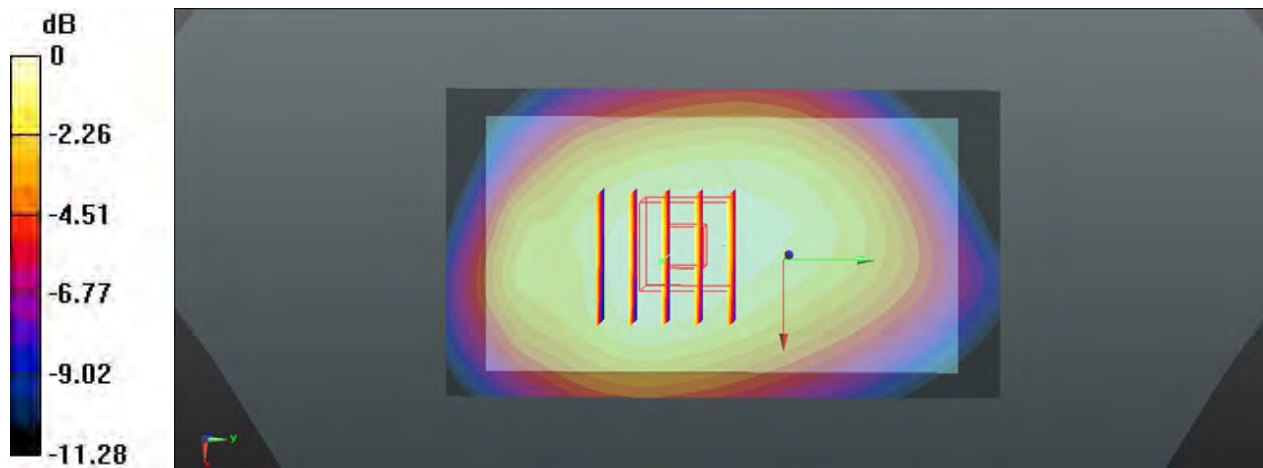
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.118 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.613 W/kg

Maximum value of SAR (measured) = 0.956 W/kg



0 dB = 0.956 W/kg

43 WCDMA Band V_RMC 12.2K_Back_1.0cm_Ch4132_Headset

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

Medium: MSL_835_140220 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 54.331$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4132/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.950 W/kg

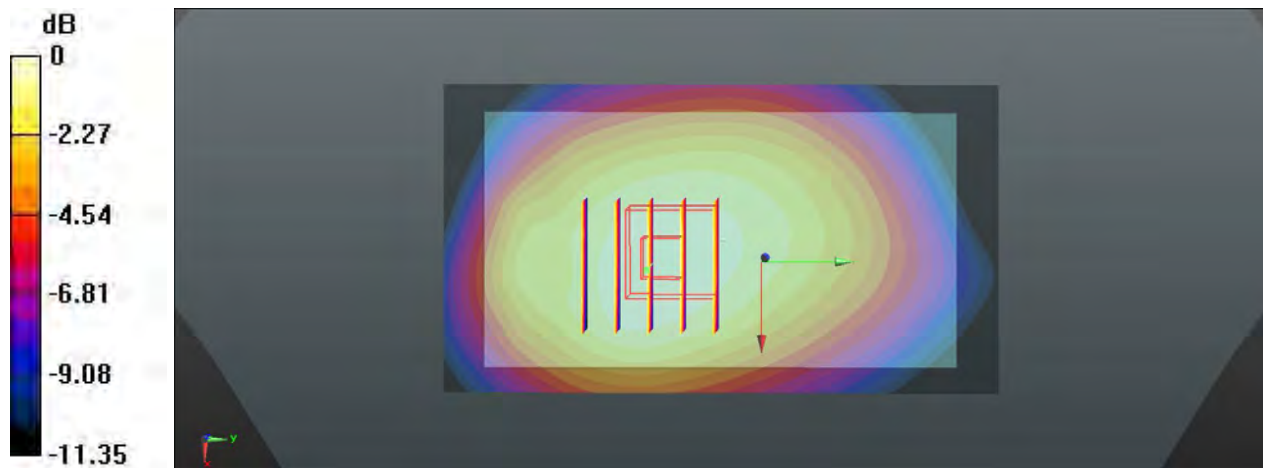
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.083 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.800 W/kg; SAR(10 g) = 0.592 W/kg

Maximum value of SAR (measured) = 0.939 W/kg



0 dB = 0.939 W/kg

44 WCDMA Band V_RMC 12.2K_Back_1.0cm_Ch4182_Headset

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: MSL_835_140220 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 54.256$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(9.93, 9.93, 9.93); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch4182/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.03 W/kg

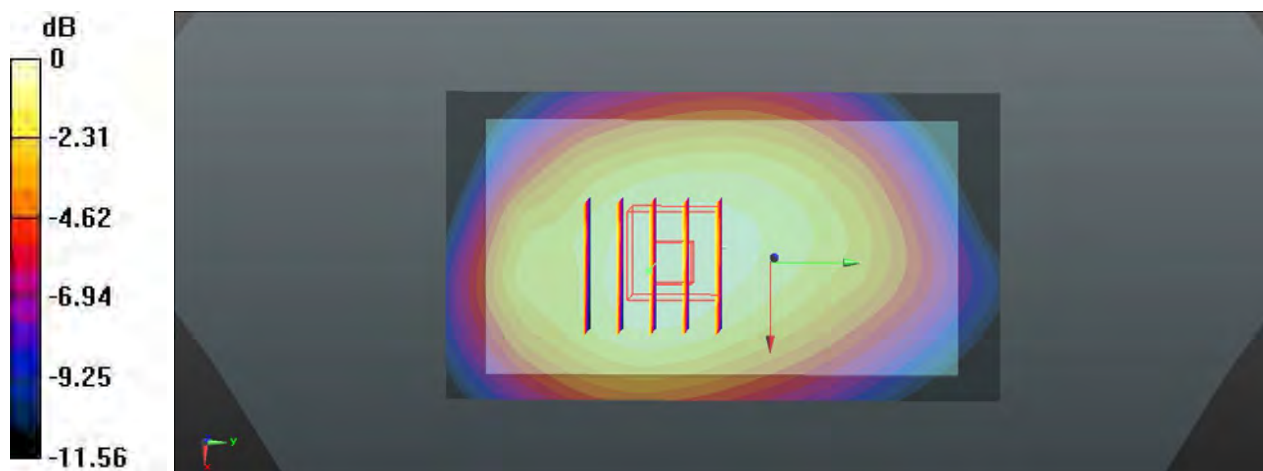
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.914 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.652 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg

83 WCDMA Band IV_RMC 12.2K_Front_1.0cm_Ch1312

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

Medium: MSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 54.734$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.823 W/kg

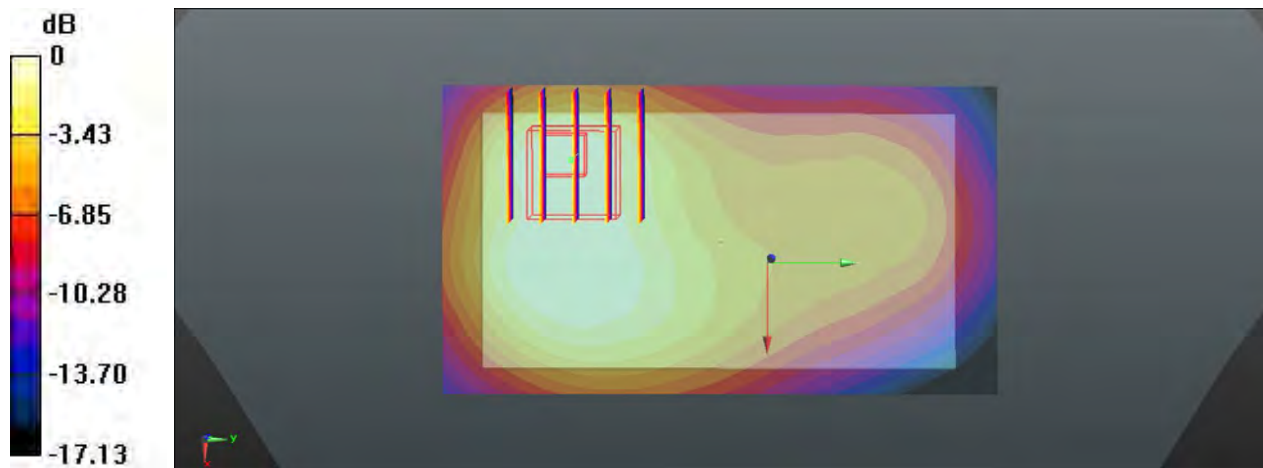
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.958 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.323 W/kg

Maximum value of SAR (measured) = 0.741 W/kg



0 dB = 0.741 W/kg

84 WCDMA Band IV_RMC 12.2K_Back_1.0cm_Ch1312

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

Medium: MSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 54.734$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.27 W/kg

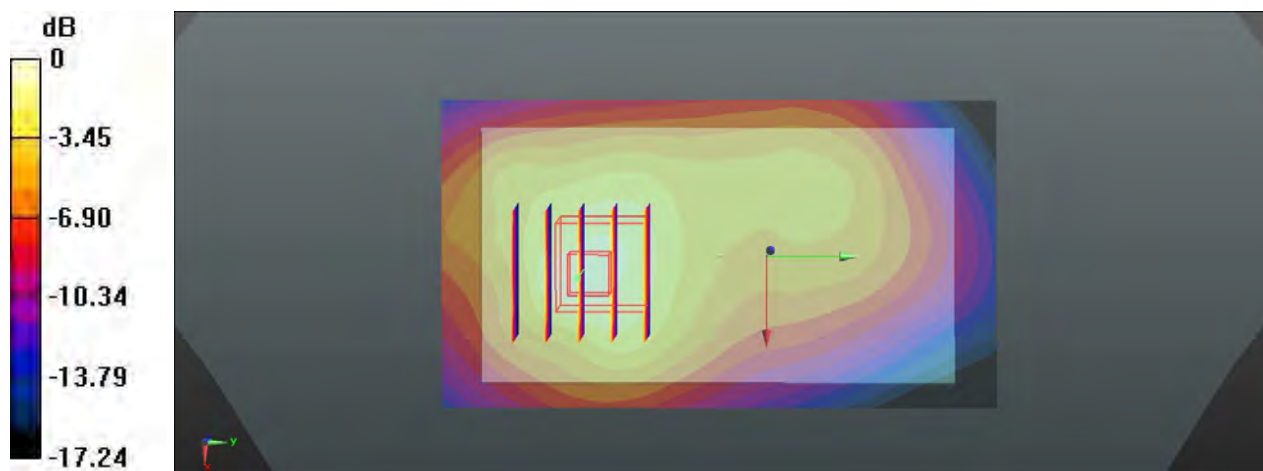
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.138 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.919 W/kg; SAR(10 g) = 0.533 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg

85 WCDMA Band IV_RMC 12.2K_Left side_1.0cm_Ch1312

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

Medium: MSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 54.734$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.302 W/kg

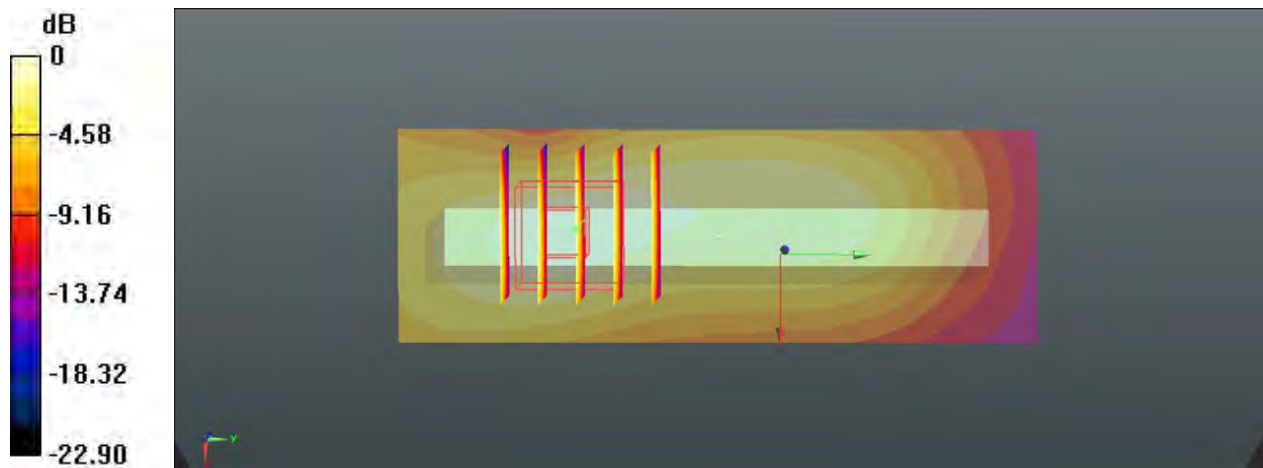
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.350 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.373 W/kg

SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.302 W/kg



0 dB = 0.302 W/kg

86 WCDMA Band IV_RMC 12.2K_Right side_1.0cm_Ch1312

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

Medium: MSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 54.734$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.214 W/kg

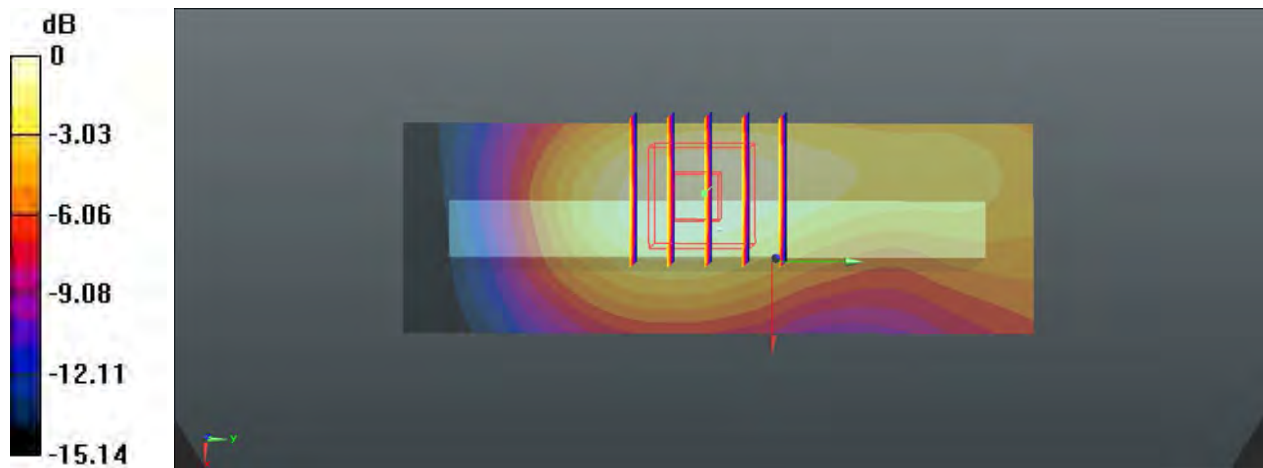
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.177 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.101 W/kg

Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg

87 WCDMA Band IV_RMC 12.2K_Bottom side_1.0cm_Ch1312

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

Medium: MSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 54.734$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (31x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.734 W/kg

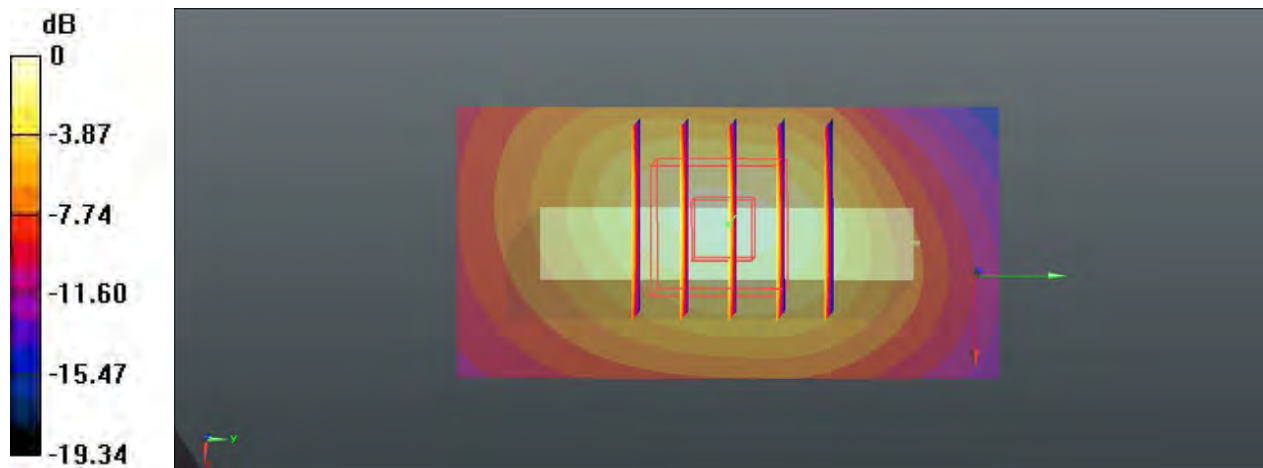
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.724 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.329 W/kg

Maximum value of SAR (measured) = 0.849 W/kg



0 dB = 0.849 W/kg

88 WCDMA Band IV_RMC 12.2K_Back_1.0cm_Ch1413

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: MSL_1750_140224 Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.511$ S/m; $\epsilon_r = 54.617$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1413/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.44 W/kg

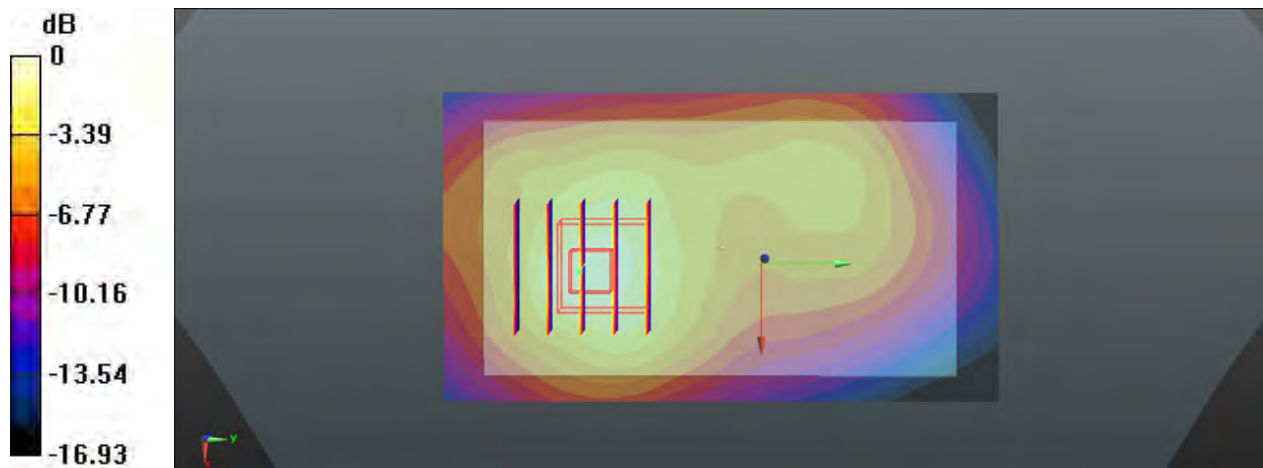
Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.289 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.600 W/kg

Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.41 W/kg

89 WCDMA Band IV_RMC 12.2K_Back_1.0cm_Ch1513

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

Medium: MSL_1750_140224 Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.543$ S/m; $\epsilon_r = 54.577$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch513/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.18 W/kg

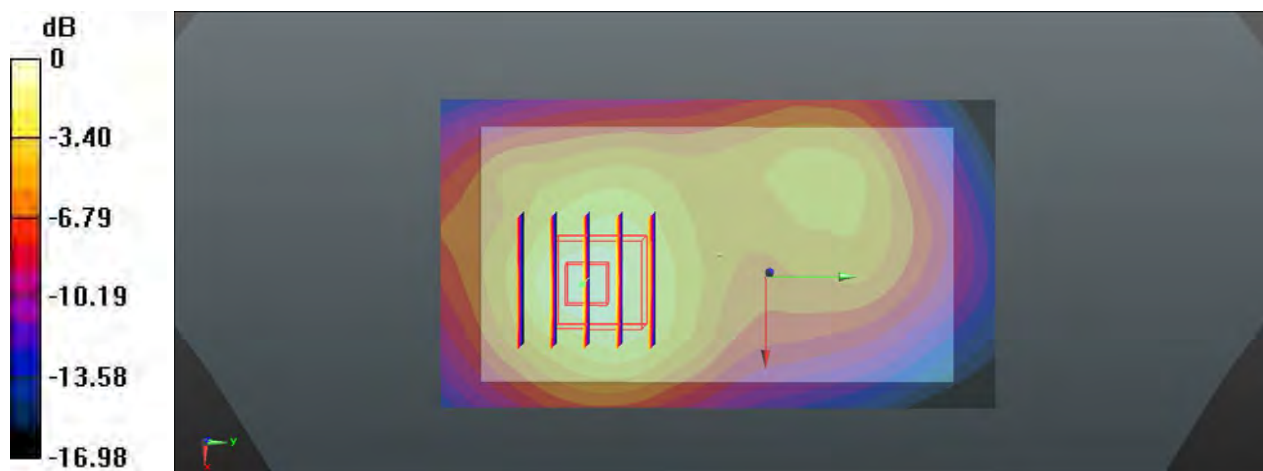
Ch513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.907 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.492 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg

90 WCDMA Band IV_RMC 12.2K_Back_1.0cm_Ch1413_Headset

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: MSL_1750_140224 Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.511$ S/m; $\epsilon_r = 54.617$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1413/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.47 W/kg

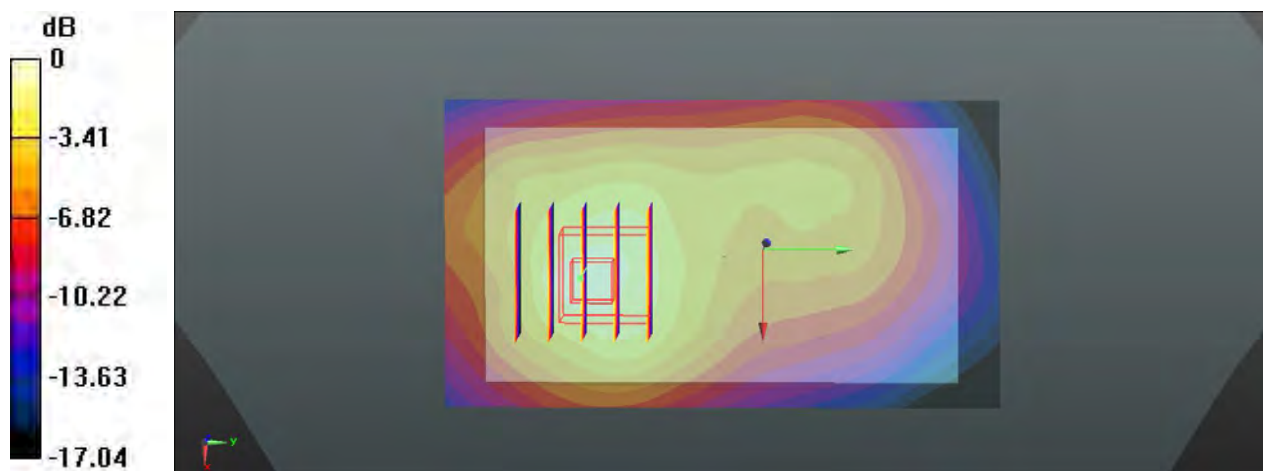
Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.097 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.628 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg

91 WCDMA Band IV_RMC 12.2K_Back_1.0cm_Ch1312_Headset

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

Medium: MSL_1750_140224 Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 54.734$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch1312/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.42 W/kg

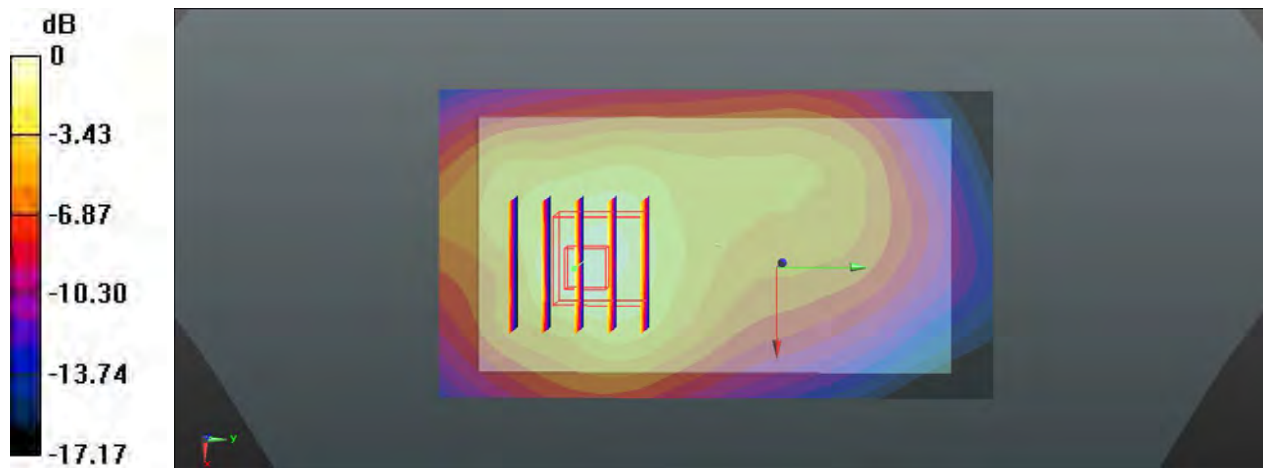
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.107 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.584 W/kg

Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg

92 WCDMA Band IV_RMC 12.2K_Back_1.0cm_Ch1513_Headset

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

Medium: MSL_1750_140224 Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.543$ S/m; $\epsilon_r = 54.577$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 1; Type: QD 000 P40 C; Serial: TP-1753
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch513/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.25 W/kg

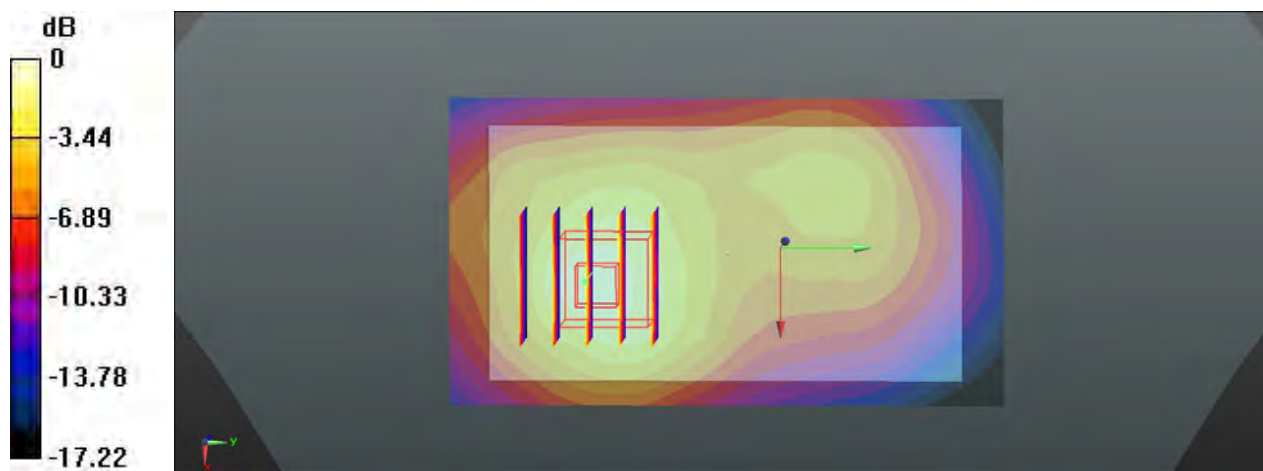
Ch513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.798 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.518 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg

01 WCDMA Band II_RMC 12.2K_Front_1.0cm_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.467$ S/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.19 W/kg

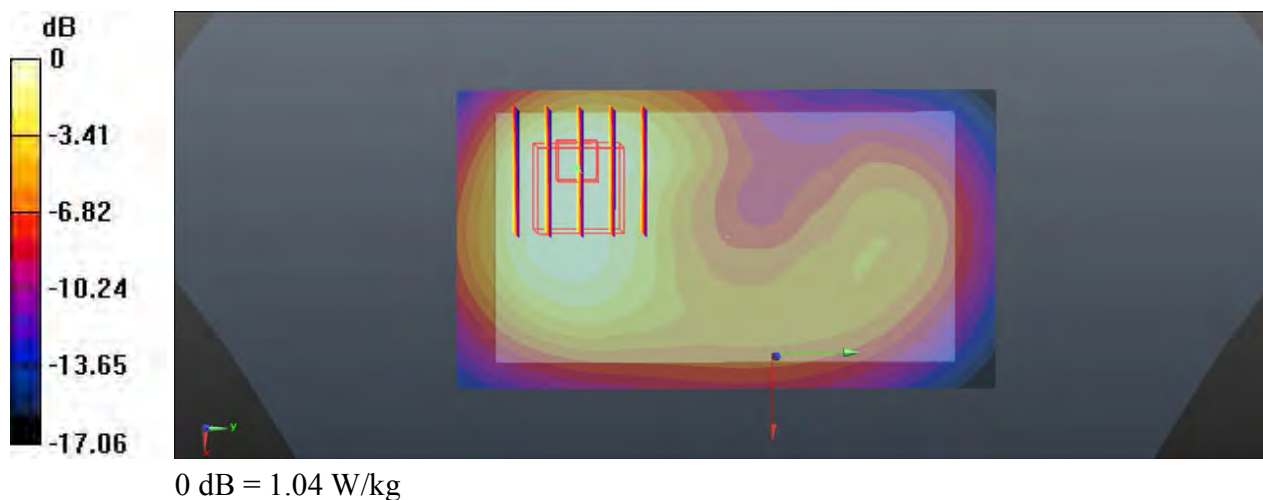
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.867 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.475 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



02 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.467$ S/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.54 W/kg

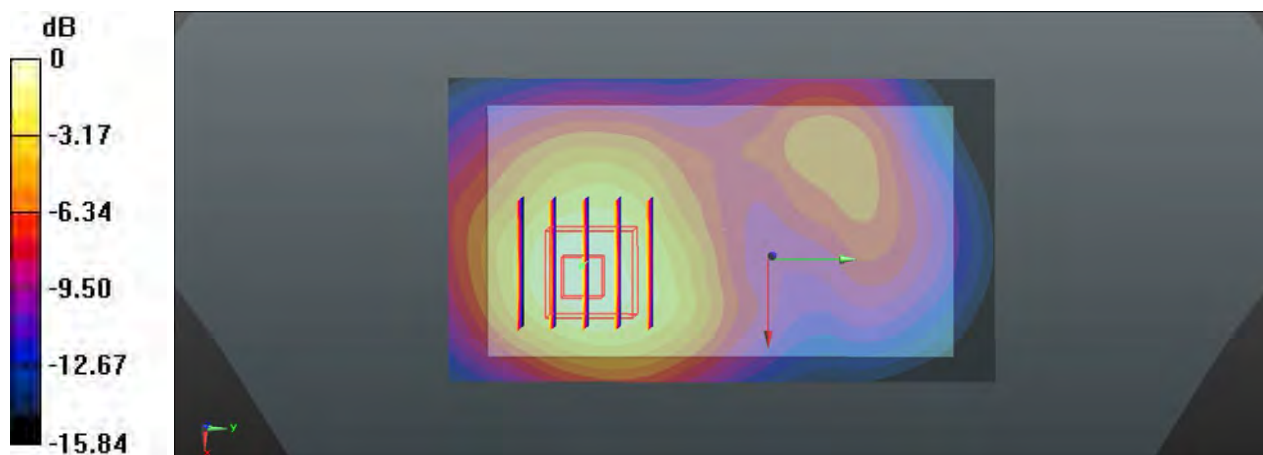
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.852 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.694 W/kg

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg

03 WCDMA Band II_RMC 12.2K_Left side_1.0cm_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.467$ S/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.373 W/kg

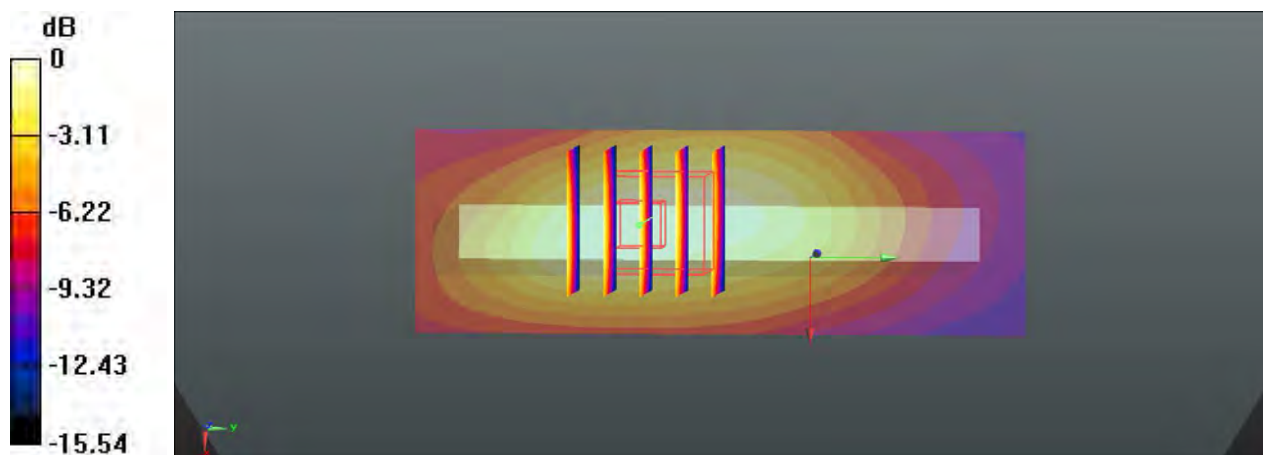
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.589 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.448 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.368 W/kg



0 dB = 0.368 W/kg

04 WCDMA Band II_RMC 12.2K_Right side_1.0cm_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.467$ S/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (31x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.260 W/kg

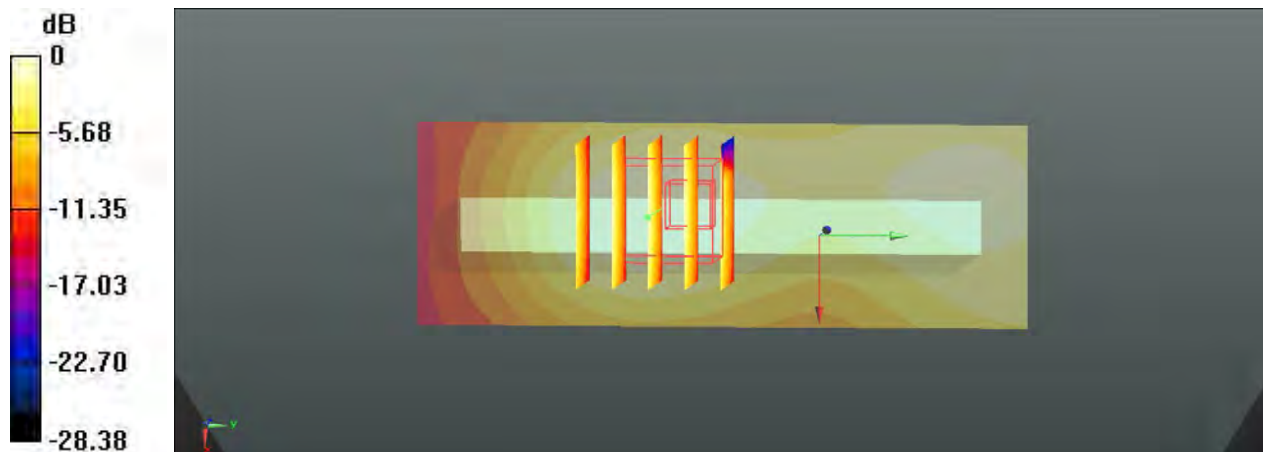
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.864 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.413 W/kg

SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.249 W/kg



0 dB = 0.249 W/kg

05 WCDMA Band II_RMC 12.2K_Bottom side_1.0cm_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.467$ S/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (31x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.742 W/kg

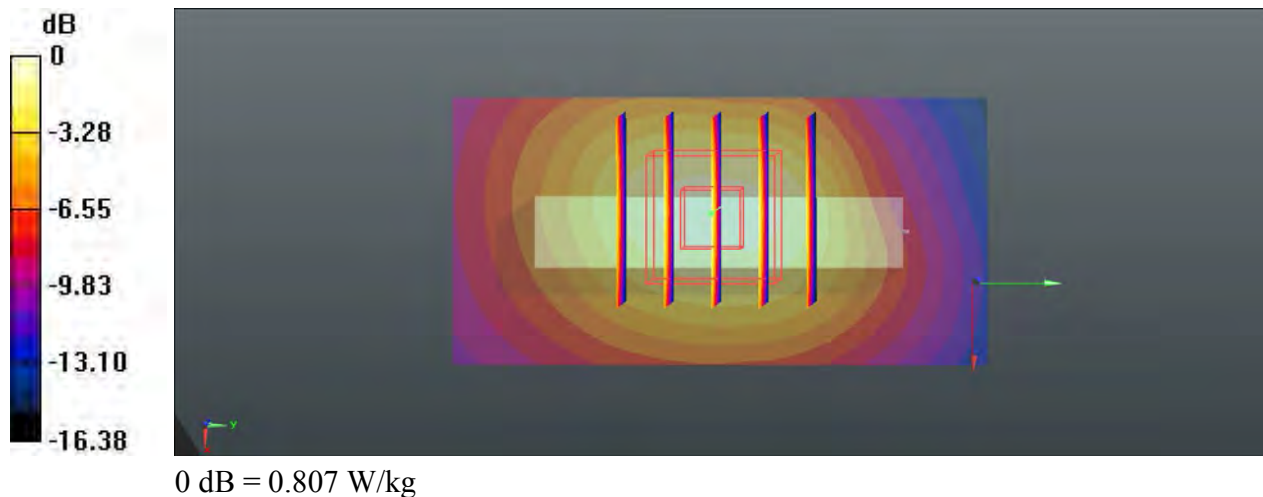
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.165 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.970 W/kg

SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.340 W/kg

Maximum value of SAR (measured) = 0.807 W/kg



06 WCDMA Band II_RMC 12.2K_Front_1.0cm_Ch9400

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 54.538$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9400/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.18 W/kg

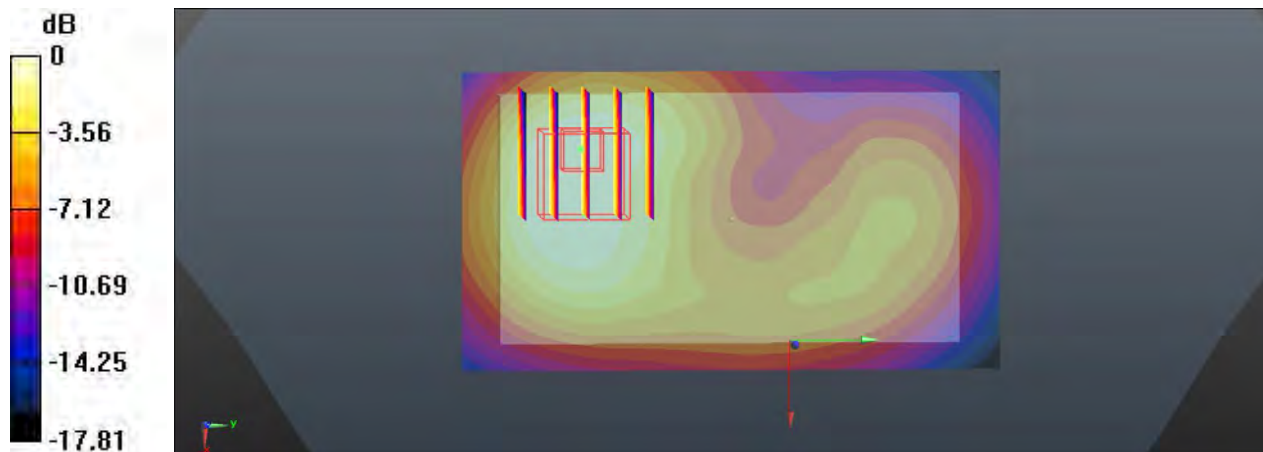
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.219 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.502 W/kg

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg

07 WCDMA Band II_RMC 12.2K_Front_1.0cm_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.532$ S/m; $\epsilon_r = 54.489$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9538/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.06 W/kg

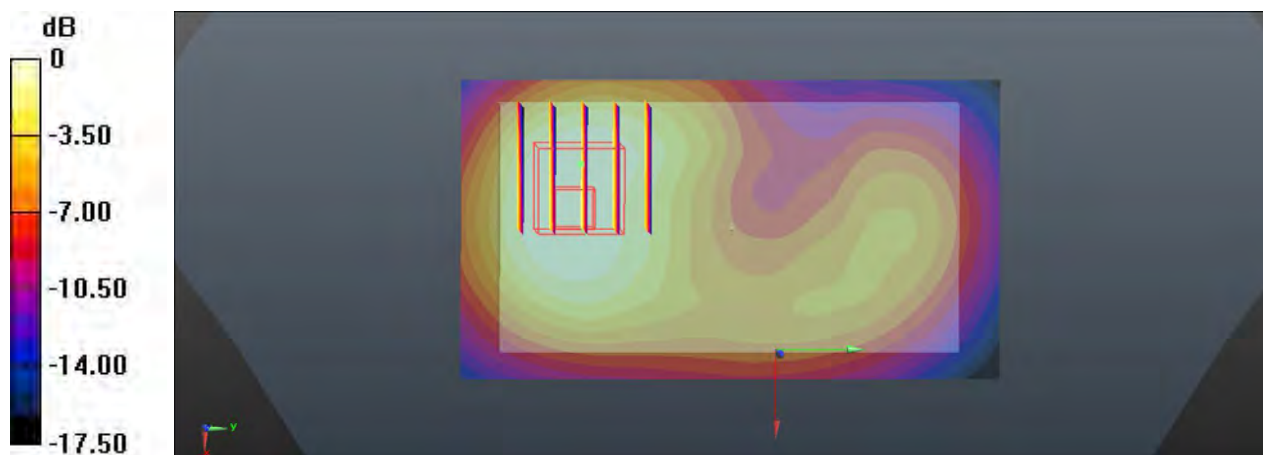
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.817 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.461 W/kg

Maximum value of SAR (measured) = 0.999 W/kg



0 dB = 0.999 W/kg

08 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9400

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 54.538$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9400/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.74 W/kg

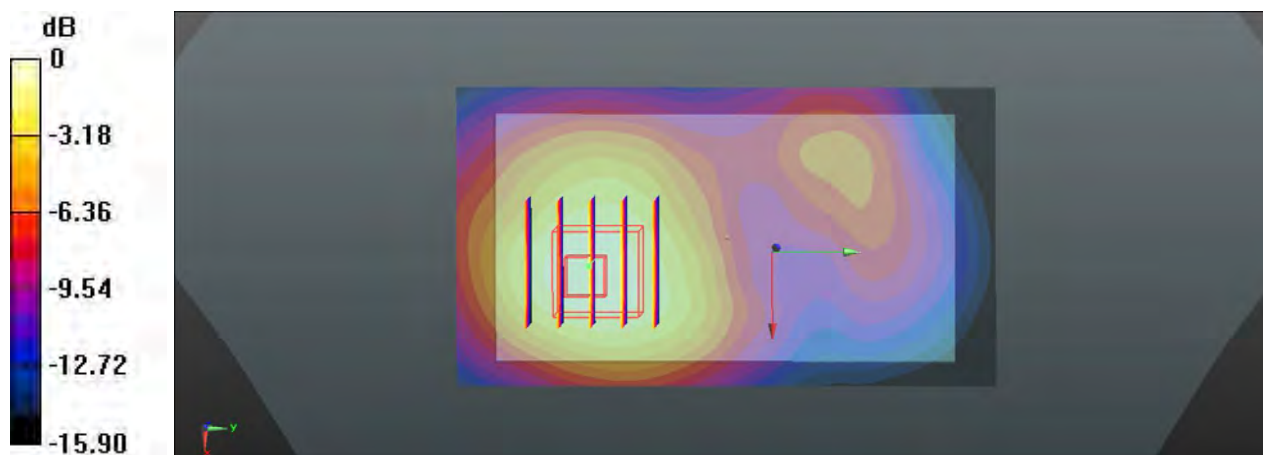
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.624 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.759 W/kg

Maximum value of SAR (measured) = 1.67 W/kg



0 dB = 1.67 W/kg

18 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9400_Repeat SAR

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 54.538$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9400/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.61 W/kg

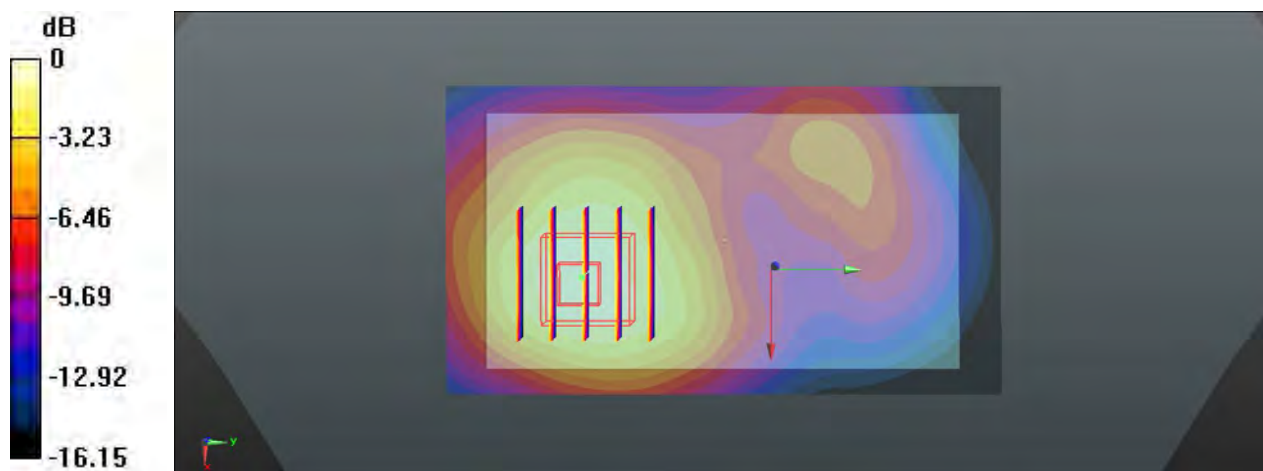
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.402 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.722 W/kg

Maximum value of SAR (measured) = 1.59 W/kg



0 dB = 1.59 W/kg

09 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.532$ S/m; $\epsilon_r = 54.489$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9538/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.64 W/kg

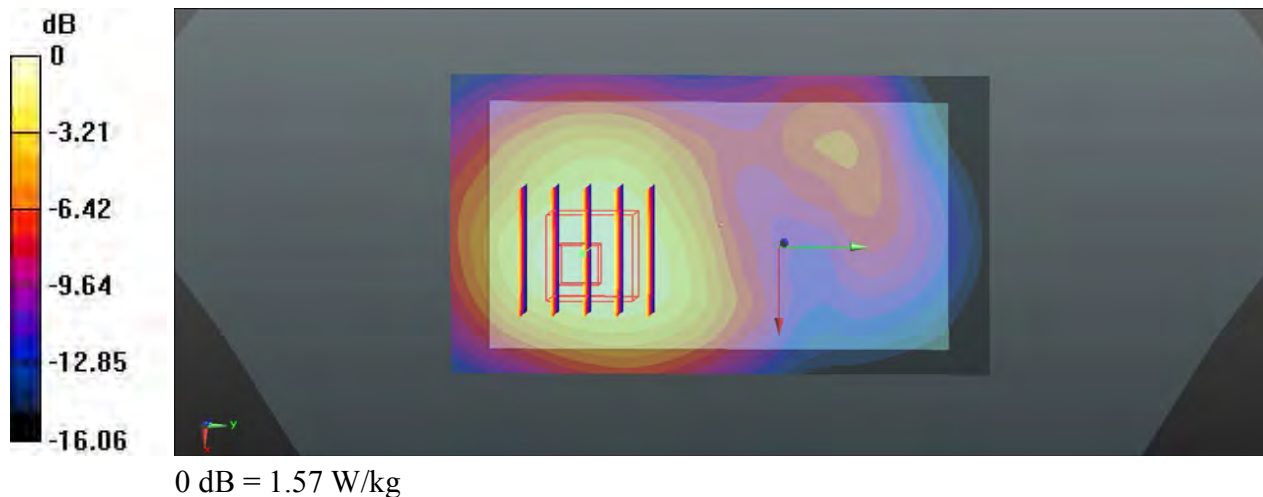
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.093 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.710 W/kg

Maximum value of SAR (measured) = 1.57 W/kg



10 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9400_Headset

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 54.538$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9400/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.64 W/kg

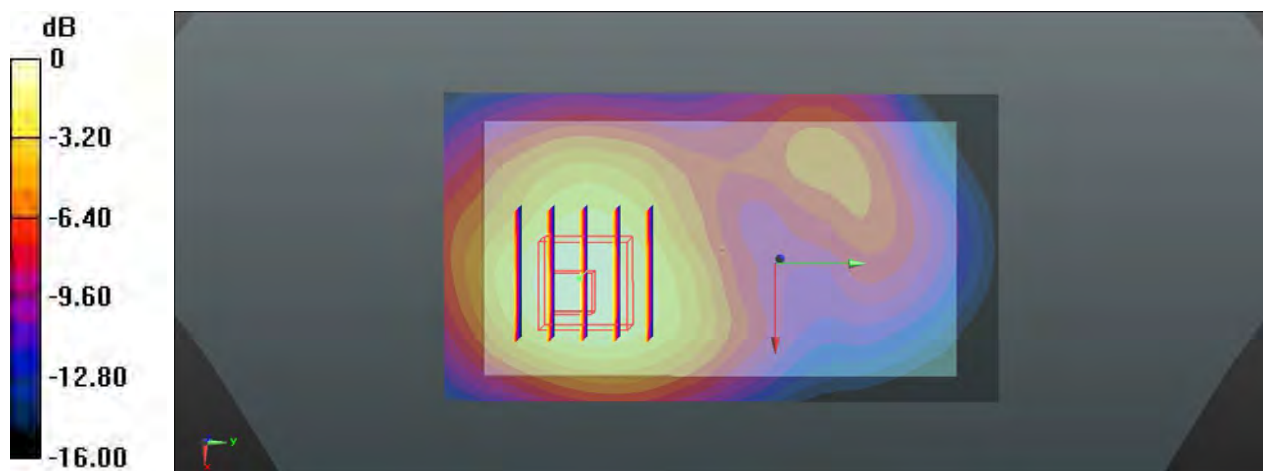
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.209 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.727 W/kg

Maximum value of SAR (measured) = 1.60 W/kg



0 dB = 1.60 W/kg

11 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9262_Headset

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.467$ S/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9262/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.55 W/kg

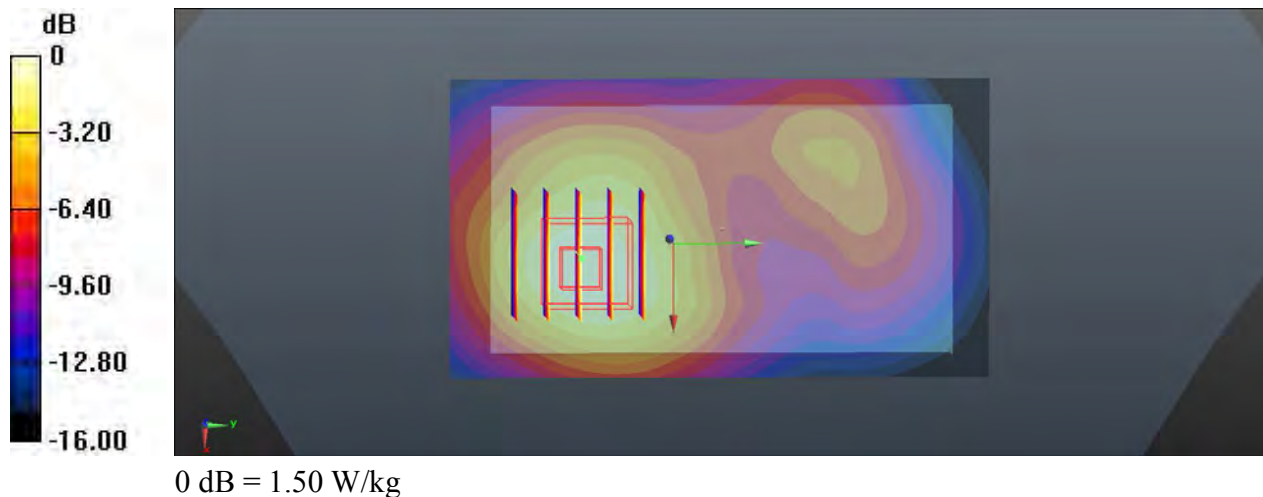
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.207 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.670 W/kg

Maximum value of SAR (measured) = 1.50 W/kg



12 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9538_Headset

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140219 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.532$ S/m; $\epsilon_r = 54.489$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.7, 7.7, 7.7); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch9538/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.59 W/kg

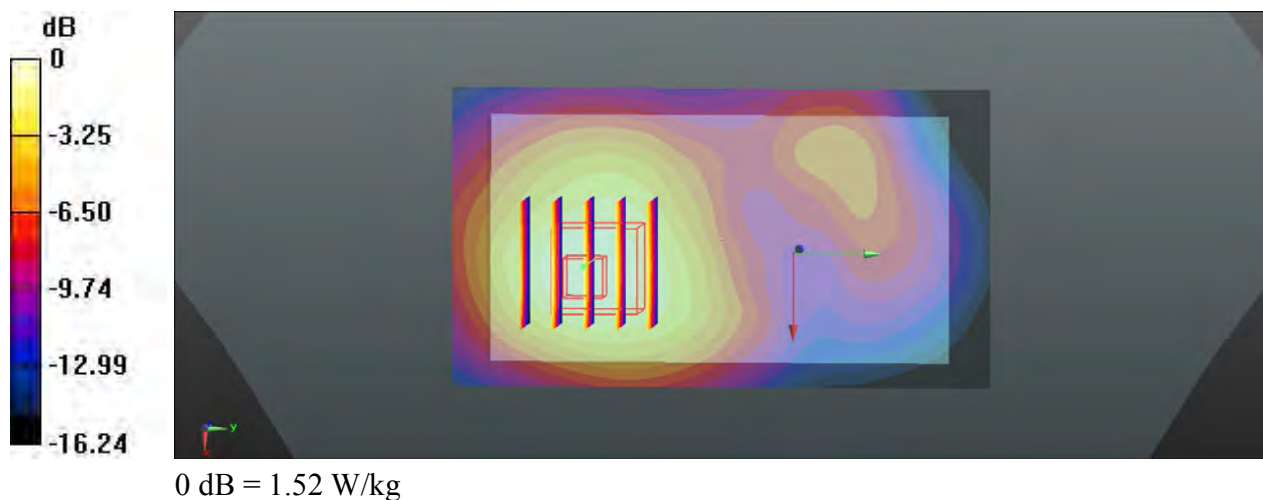
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.910 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.684 W/kg

Maximum value of SAR (measured) = 1.52 W/kg



78 WLAN 2.4GHz_802.11b_Front_1.0cm_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: MSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.913$ S/m; $\epsilon_r = 53.395$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.34, 7.34, 7.34); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (71x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0455 W/kg

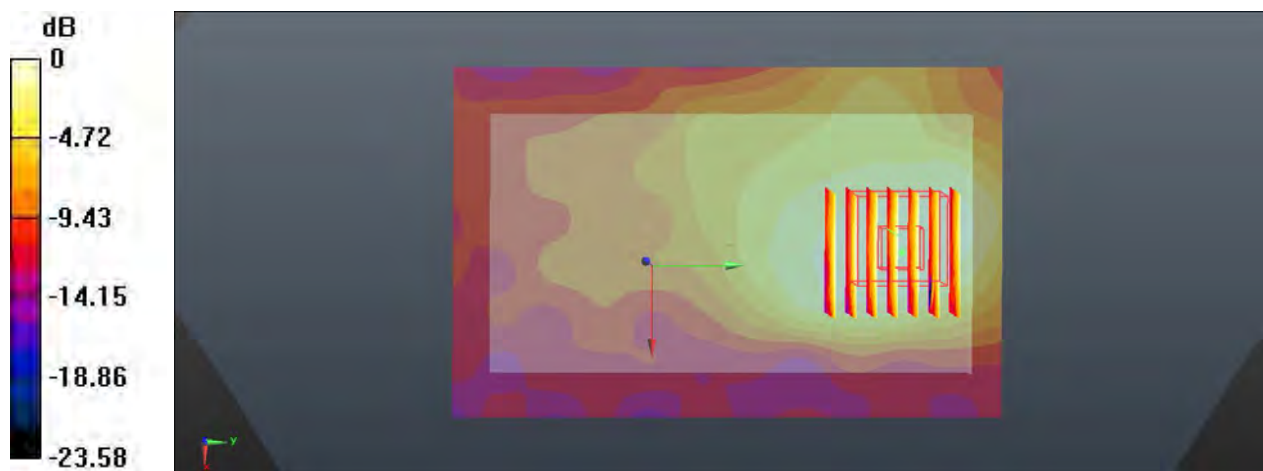
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.233 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.0580 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.0432 W/kg



0 dB = 0.0432 W/kg

79 WLAN 2.4GHz_802.11b_Back_1.0cm_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: MSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.913$ S/m; $\epsilon_r = 53.395$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.34, 7.34, 7.34); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (71x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0579 W/kg

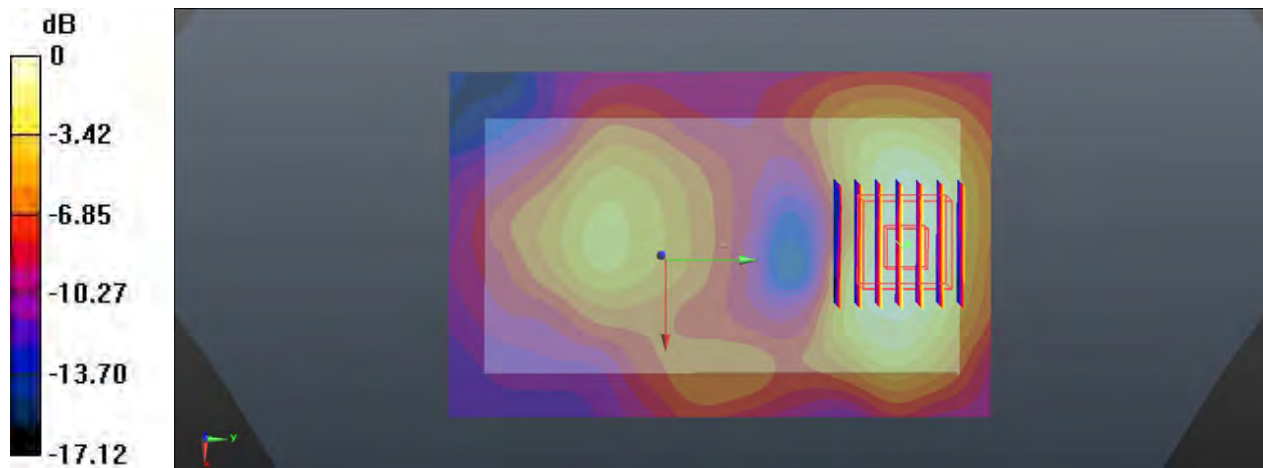
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.077 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0720 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.022 W/kg

Maximum value of SAR (measured) = 0.0555 W/kg



0 dB = 0.0555 W/kg

80 WLAN 2.4GHz_802.11b_Left side_1.0cm_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: MSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.913$ S/m; $\epsilon_r = 53.395$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.34, 7.34, 7.34); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (31x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0729 W/kg

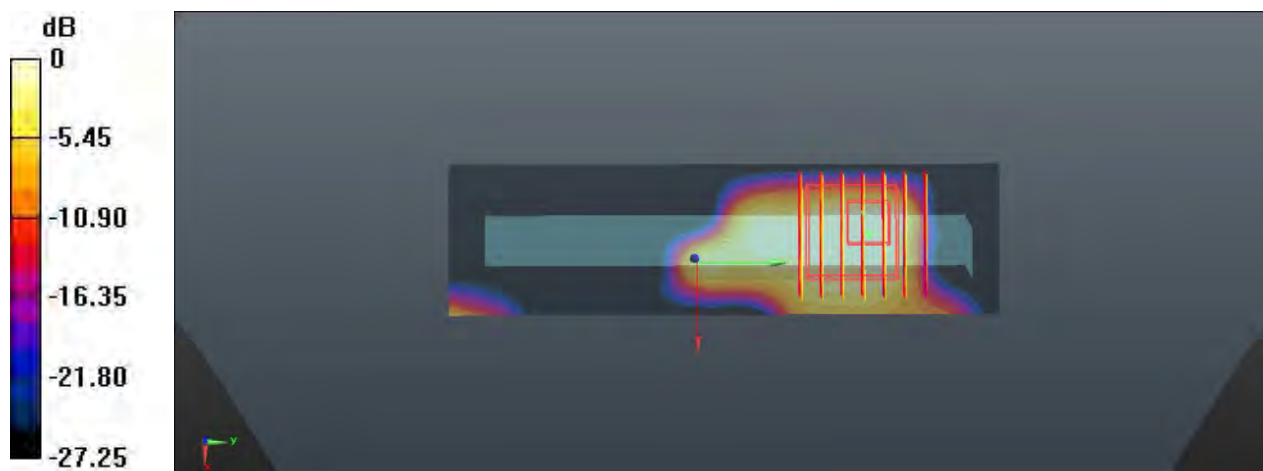
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.922 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.110 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0335 W/kg



0 dB = 0.0335 W/kg

81 WLAN 2.4GHz_802.11b_Top side_1.0cm_Ch6

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: MSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.913$ S/m; $\epsilon_r = 53.395$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.34, 7.34, 7.34); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (31x71x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0249 W/kg

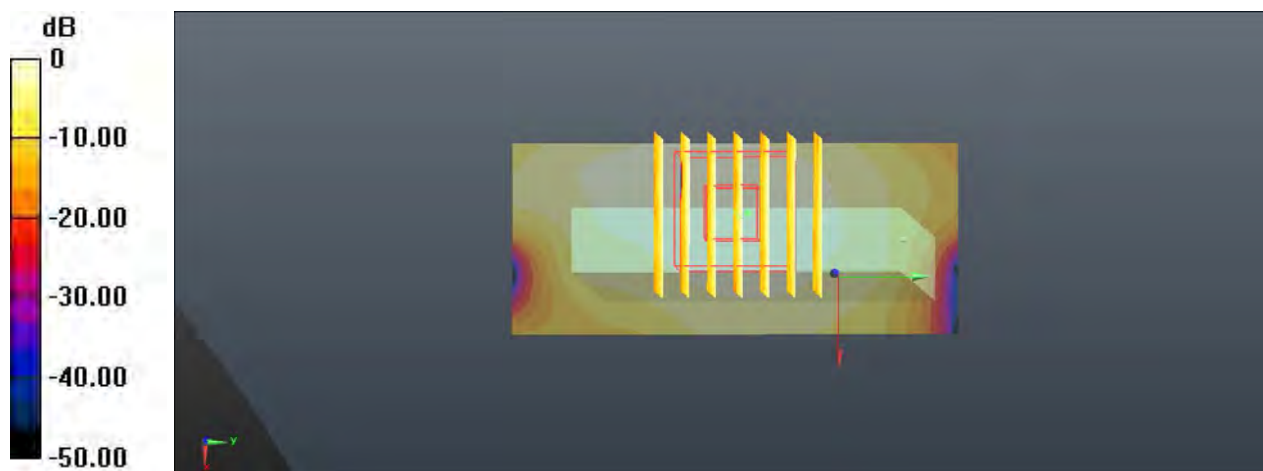
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.298 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0340 W/kg

SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.00979 W/kg

Maximum value of SAR (measured) = 0.0261 W/kg



0 dB = 0.0261 W/kg

82 WLAN 2.4GHz_802.11b_Back_1.0cm_Ch6_Headset

Communication System: 802.11b ;Frequency: 2437 MHz;Duty Cycle: 1:1.024

Medium: MSL_2450_140221 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.913$ S/m; $\epsilon_r = 53.395$;
 $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3911; ConvF(7.34, 7.34, 7.34); Calibrated: 2013.04.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2013.04.08
- Phantom: SAM 2; Type: QD 000 P40 C; Serial: TP-1754
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Ch6/Area Scan (71x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0419 W/kg

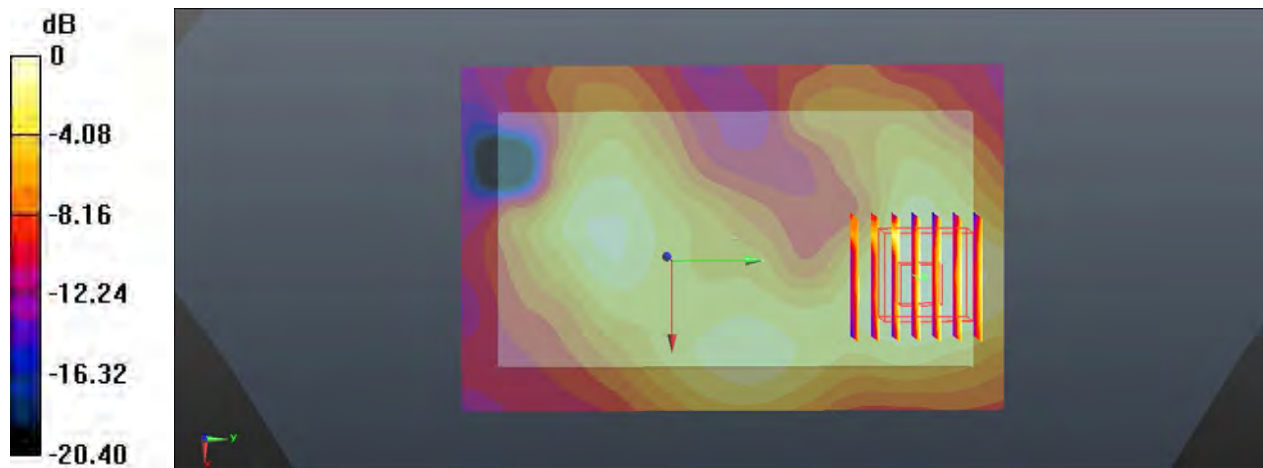
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.168 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0520 W/kg

SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.016 W/kg

Maximum value of SAR (measured) = 0.0405 W/kg



0 dB = 0.0405 W/kg