



OET 65

TEST REPORT

Product Name	CDMA/LTE smartphone
Model	M931
FCC ID	QISM931
Client	Huawei Technologies Co., Ltd.

TA Technology (Shanghai) Co., Ltd.

TA Technology (Shanghai) Co., Ltd.
Test Report

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GENERAL SUMMARY

Product Name	CDMA/LTE smartphone	Model Name	M931
FCC ID	QISM931	Report No.	RHA1304-0041SAR01R1
Client	Huawei Technologies Co., Ltd.		
Manufacturer	Huawei Technologies Co., Ltd.		
Standard(s)	<p>IEEE Std C95.1, 1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.</p> <p>IEEE Std 1528™-2003: IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.</p> <p>SUPPLEMENT C Edition 01-01 to OET BULLTEIN 65 Edition 97-01 June 2001 including DA 02-1438 June 19, 2002: Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields Additional Information for Evaluation Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions.</p> <p>RSS-102 Issue 4 March 2010: Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands).</p> <p>KDB 941225 D01 SAR test for 3G devices v02 SAR Measurement Procedures for 3G Devices– CDMA 2000 / Ev-Do / WCDMA / HSDPA / HSPA –</p> <p>KDB 941225 D05 SAR for LTE Devices v02r02 SAR Test Considerations for LTE Handsets and Data Modems</p> <p>KDB 941225 D06 Hot Spot SAR v01r01 SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities</p> <p>KDB 447498 D01 Mobile Portable RF Exposure v05r01 Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies</p> <p>KDB 648474 D04 Handset SAR v01r01 SAR Evaluation Considerations for Wireless Handsets</p> <p>KDB 248227 D01 SAR meas for 802 11abg v01r02 SAR measurement Procedures for 802 11a/b/g transmitters</p> <p>KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r01 SAR Measurement Requirements for 100 MHz to 6 GHz</p> <p>Tracking number: 842893/Tracking number: 527783</p>		
Conclusion	<p>This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 7 of this test report are below limits specified in the relevant standards.</p> <p>General Judgment: Pass</p> <p style="text-align: right;">(Stamp) Date of issue: July 25th, 2013</p>		
Comment	The test result only responds to the measured sample.		

Approved by
Director

Revised by
SAR Manager

Performed by
SAR Engineer

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1. General Information

1.1. Notes of the Test Report

TA Technology (Shanghai) Co., Ltd. guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

TA Technology (Shanghai) Co., Ltd. is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities. This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of **TA Technology (Shanghai) Co., Ltd.** and the Accreditation Bodies, if it applies.

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS), and accreditation number: L2264.

If the electrical report is inconsistent with the printed one, it should be subject to the latter.

1.2. Testing Laboratory

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1.3. Applicant Information

Company: Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian,
Longgang District
City: Shenzhen
Postal Code: 518129
Country: P.R. China

1.4. Manufacturer Information

Company: Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian,
Longgang District
City: Shenzhen
Postal Code: 518129
Country: P.R. China

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1.5. Information of EUT

General Information

Device Type:	Portable Device		
Exposure Category:	Uncontrolled Environment / General Population		
Product Name:	CDMA/LTE smartphone		
IMEI:	99000135008292		
Hardware Version:	Ver.D		
Software Version:	C8869LV100R001C558B105		
Antenna Type:	Internal Antenna		
Device Operating Configurations:			
Supporting Mode(s):	CDMA Cellular; (tested) CDMA PCS; (tested) CDMAAWS; (tested) LTE Band 2: (tested) LTE Band 4: (tested) 802.11b/g/n HT20; (tested) Bluetooth; (tested)		
Support EVDO	Yes, Support Rev.0/A		
Support 1X Advance	Yes, Support Rev.D		
Support Hotspot	Yes, when hot spots opened, LTE/SVLTE power will reduced.		
Proximity Sensor	Yes, not reduce the transmit power		
Test Modulation:	CDMA(QPSK) LTE Band (QPSK, 16QAM)		
LTE Category	3		
Test Channel: (Low - Middle - High)	1013 - 384 - 777	(CDMA Cellular)	(tested)
	25 - 600 - 1175	(CDMA PCS)	(tested)
	25 - 450 - 875	(CDMAAWS)	(tested)
	18607-18900-19193	(LTE Band 2, 1.4M)	(tested)
	18615-18900-19185	(LTE Band 2, 3M)	(tested)
	18625-18900-19175	(LTE Band 2, 5M)	(tested)
	18650-18900-19150	(LTE Band 2, 10M)	(tested)
	19957-20175-20393	(LTE Band 4, 1.4M)	(tested)
	19965-20175-20385	(LTE Band 4, 3M)	(tested)
	19975-20175-20375	(LTE Band 4, 5M)	(tested)
	20000-20175-20350	(LTE Band 4, 10M)	(tested)
	1-6-11	(802.11b/g/n HT20)	(tested)
	0-39-78	(BT)	(tested)

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Power Class:	CDMA Cellular: 3 CDMA PCS: 2 CDMA AWS: 2 LTE Band 2: 3 LTE Band 4: 3		
Power Control	CDMA Cellular: Tested with Power Control All up bits CDMA PCS: Tested with Power Control All up bits CDMA AWS: Tested with Power Control All up bits LTE Band 2: Tested with Power Control All up bits LTE Band 4: Tested with Power Control All up bits		
Operating Frequency Range(s):	Mode	Tx (MHz)	Rx (MHz)
	CDMA Cellular	824.7 ~ 848.31	869.7 ~ 893.31
	CDMA PCS	1851.25 ~ 1908.75	1931.25 ~ 1988.75
	CDMA AWS	1711.25 ~ 1753.75	2111.25 ~ 2153.75
	LTE Band 2(1.4MHz)	1850.7 ~1909.3	1930.7~1989.3
	LTE Band 2(3MHz)	1851.5~1908.5	1931.5~1988.5
	LTE Band 2(5MHz)	1852.5~1907.5	1932.5~1987.5
	LTE Band 2(10MHz)	1855.0~1905.0	1935.0~1985.0
	LTE Band 4(1.4MHz)	1710.7 ~1754.3	2110.7~2154.3
	LTE Band 4(3MHz)	1711.5~1753.5	2111.5~2153.5
	LTE Band 4(5MHz)	1712.5~1752.5	2112.5~2152.5
	LTE Band 4(10MHz)	1715.0~1750.0	2115~2150

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Auxiliary Equipment Details

AE1: Battery 1

Model: HB5N1HA
Manufacturer: Huawei Technologies Co., Ltd.
S/N: UWDC320XBGN1407

AE2: Battery 2

Model: HB5N1HA
Manufacturer: Huawei Technologies Co., Ltd.
S/N: MAIC702X03600810

Equipment Under Test (EUT) is a model of CDMA/LTE smartphone.

The device has four antennas.

Antenna 1: CDMA 1X for Tx/Rx,

Antenna 2: LTE Band 2/4 for Tx/Rx,

CDMA cellular/PCS/AWS support EVDO capability.

Antenna 3: BT/WIFI for Tx/Rx,

Antenna 4: GPS/DIV for Rx,

SAR values duplicated from original M931 for new M931, the report number of original M931 is RHA1209-0083SAR01R2. The new M931 add to support CDMA cellular EVDO by software. The detailed product change description please refers to the ANNEX R.

The detail about Mobile phone and Lithium Battery is in chapter 1.5 in this report. SAR is tested for CDMA Cellular, CDMA PCS, CDMA AWS, LTE Band 2, LTE Band 4, BT and WIFI.

The sample under test was selected by the Client.

Components list please refer to documents of the manufacturer.

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1.6. The Maximum SAR_{1g} Vaules

Head Configuration

Original M931

Mode	Test Position	Channel /Frequency(MHz)	Limit SAR _{1g} 1.6 W/kg	
			Measured SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
CDMA Cellular	Left, Cheek	384/836.52	0.413	0.527
CDMA PCS	Left, Cheek	600/1880	0.473	0.621
CDMA AWS	Left, Cheek	450/1732.5	0.685	0.809
LTE Band 2	Right, Cheek	18650/1855	1.090	1.163
LTE Band 4	Right, Cheek	20393/1754.3	0.933	0.937
WIFI	Right, Cheek	High /11	0.153	0.173

New M931

Mode	Test Position	Channel /Frequency(MHz)	Limit SAR _{1g} 1.6 W/kg	
			Measured SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
CDMA Cellular	Left, Cheek	384/836.52	0.457	0.664
CDMA PCS	Left, Cheek	600/1880	0.452	0.652
CDMA AWS	Left, Cheek	450/1732.5	0.535	0.759
LTE Band 2	Right, Cheek	18650/1855	0.873	0.928
LTE Band 4	Right, Cheek	20393/1754.3	0.808	0.866
WIFI	Right, Cheek	11/2462	0.153	0.173
BT	Right, Tilt	78/2480	0.002	0.003

Body Worn Configuration

Original M931

Mode	Test Position	Channel /Frequency(MHz)	Limit SAR _{1g} 1.6 W/kg	
			Measured SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
CDMA Cellular	Back	384/836.52	0.564	0.688
CDMA PCS	Back	600/1880	0.443	0.583
CDMA AWS	Back	450/1732.5	0.555	0.658
LTE Band 2	Back	18900/1880	0.697	0.740
LTE Band 4	Back	20175/1732.5	0.727	0.765
WIFI	Back	11/2462	0.157	0.178

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Body hot spot Configuration
Original M931

Mode	Test Position	Channel /Frequency(MHz)	Limit SAR _{1g} 1.6 W/kg	
			Measured SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
CDMA Cellular	Back	384/836.52	0.726	0.885
CDMA PCS	Bottom	1175/1908.75	1.130	1.466
CDMA AWS	Back	450/1732.5	0.897	1.064
LTE Band 2	Back	18900/1880	1.190	1.263
LTE Band 4	Back	20175/1732.5	1.230	1.294
WIFI	Back	11/2462	0.157	0.178

New M931

Mode	Test Position	Channel /Frequency(MHz)	Limit SAR _{1g} 1.6 W/kg	
			Measured SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
CDMA Cellular	Back	384/836.52	0.728	1.074
CDMA PCS	Bottom	1175/1908.75	0.96	1.400
CDMA AWS	Back	450/1732.5	0.762	1.096
LTE Band 2	Back	18900/1880	1.280	1.317
LTE Band 4	Back	20175/1732.5	1.200	1.286
WIFI	Back	11/2462	0.157	0.178
BT	Back	78/2480	0.028	0.031

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1.7. Conducted Power of Each Tested Mode (original M931)

Band	Maximum Conducted Power (dBm)
CDMA Cellular	24.44
CDMA PCS	23.89
CDMA AWS	24.35
LTE Band 2	23.93
LTE Band 4	23.98
WIFI	15.61

Note: The detail Power refers to Table 8 (Power Measurement Results).

1.8. Conducted Power of Each Tested Mode (new M931)

Band	Maximum Conducted Power (dBm)
CDMA Cellular	23.79
CDMA PCS	23.88
CDMA AWS	23.89
LTE Band 2	23.80
LTE Band 4	23.81
WIFI	15.61

Note: The detail Power refers to Table 9 (Power Measurement Results).

1.9. Test Date

The test is performed from June 29, 2013 to June 30, 2013.

2. SAR Measurements System Configuration

2.1. SAR Measurement Set-up

The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- A unit to operate the optical surface detector which is connected to the EOC.
- The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
- The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2003
- DASY5 software and SEMCAD data evaluation software.
- Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- The generic twin phantom enabling the testing of left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- System validation dipoles allowing to validate the proper functioning of the system.

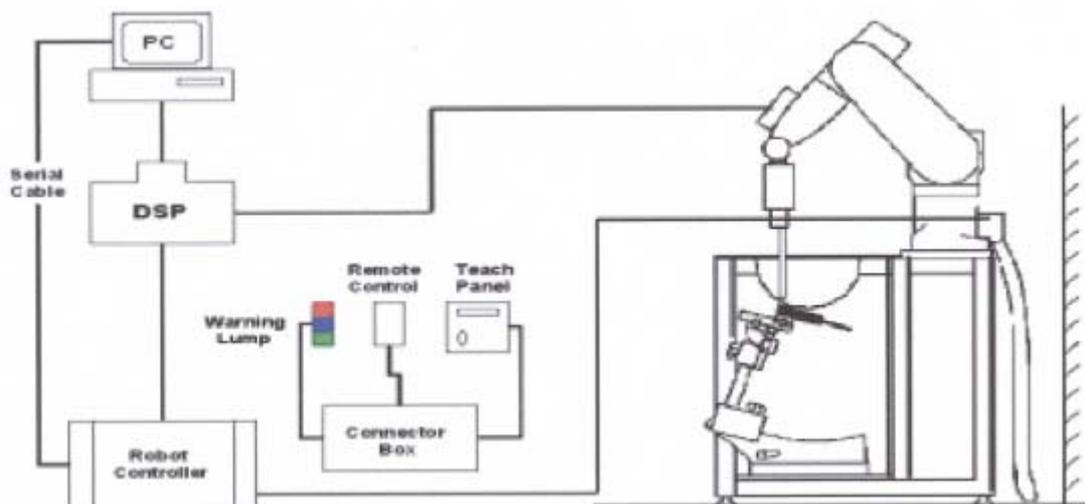


Figure 1 SAR Lab Test Measurement Set-up

2.2. DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe ES3DV3/EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

2.2.1. ES3DV3 Probe Specification

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 4 GHz Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis)
Dynamic Range	5 μ W/g to > 100 mW/g Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones



Figure 2. ES3DV3 E-field Probe



Figure 3. ES3DV3 E-field probe

2.2.2. EX3DV4 Probe Specification

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
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
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.



Figure 4. EX3DV4 E-field Probe



Figure 5. EX3DV4 E-field probe

2.2.3. E-field Probe Calibration

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

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

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

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

Where: Δt = Exposure time (30 seconds),
C = Heat capacity of tissue (brain or muscle),
 ΔT = Temperature increase due to RF exposure.
Or

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

Where:
 σ = Simulated tissue conductivity,
 ρ = Tissue density (kg/m³).

2.3. Other Test Equipment

2.3.1. Device Holder for Transmitters

The DASY device holder is designed to cope with the different positions given in the standard.

It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the inference of the clamp on the test results could thus be lowered.



Figure 6 Device Holder

2.3.2. Phantom

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

Shell Thickness	2±0.1 mm
Filling Volume	Approx. 20 liters
Dimensions	810 x 1000 x 500 mm (H x L x W)
Available	Special



Figure 7 Generic Twin Phantom

2.4. Scanning Procedure

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

- The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max. ± 5 %.
- The “surface check” measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above ± 0.1mm). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within ± 30°.)
- Area Scan
The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid

spacing is set according to FCC KDB Publication 865664. During scan the distance of the probe to the phantom remains unchanged.

After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

- **Zoom Scan**

After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm.

- **Spatial Peak Detection**

The procedure for spatial peak SAR evaluation has been implemented and can determine values of masses of 1g and 10g, as well as for user-specific masses. The DASY5 system allows evaluations that combine measured data and robot positions, such as:

- maximum search
- extrapolation
- boundary correction
- peak search for averaged SAR

During a maximum search, global and local maxima searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard’s method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

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. Several measurements at different distances are necessary for the extrapolation. Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Zoom Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard’s method for extrapolation.

- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 5mm steps.

Table 1: Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{area}, \Delta y_{area}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{zoom}, \Delta y_{zoom}$)	Maximum Zoom Scan Spatial Resolution (mm) $\Delta z_{zoom}(n)$	Minimum Zoom Scan Volume (mm) (x,y,z)
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≥ 22

2.5. Data Storage and Evaluation

2.5.1. Data Storage

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “.DAE4”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

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

2.5.2. Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	Normi, 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	
	- Density	

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

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

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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:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With V_i = compensated signal of channel i (i = x, y, z)

U_i = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp_i = diode compression point (DASY parameter)

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

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

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

With V_i = compensated signal of channel i (i = x, y, z)

$Norm_i$ = sensor sensitivity of channel i (i = x, y, z)
[mV/(V/m)²] for E-field Probes

$ConvF$ = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

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

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

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

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

with **SAR** = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ρ = equivalent tissue density in g/cm³

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

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

with **P_{pwe}** = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m

3. Laboratory Environment

Table 2: The Requirements of the Ambient Conditions

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards.	
Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

4. Tissue-equivalent Liquid

4.1. Tissue-equivalent Liquid Ingredients

The liquid is consisted of water, salt, Glycol, Sugar, Preventol and Cellulose. The liquid has previously been proven to be suited for worst-case. The table 2 and table 3 show the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the OET 65.

Table 3: Composition of the Head Tissue Equivalent Matter

MIXTURE%	FREQUENCY(Brain) 835MHz
Water	41.45
Sugar	56
Salt	1.45
Preventol	0.1
Cellulose	1.0
Dielectric Parameters Target Value	f=835MHz $\epsilon=41.5$ $\sigma=0.9$

MIXTURE%	FREQUENCY(Brain) 1750MHz
Water	55.24
Glycol	44.45
Salt	0.31
Dielectric Parameters Target Value	f=1750MHz $\epsilon=40.1$ $\sigma=1.37$

MIXTURE%	FREQUENCY(Brain) 1900MHz
Water	55.242
Glycol monobutyl	44.452
Salt	0.306
Dielectric Parameters Target Value	f=1900MHz $\epsilon=40.0$ $\sigma=1.40$

MIXTURE%	FREQUENCY(Brain) 2450MHz
Water	62.7
Glycol	36.8
Salt	0.5
Dielectric Parameters Target Value	f=2450MHz $\epsilon=39.20$ $\sigma=1.80$

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Table 4: Composition of the Body Tissue Equivalent Matter

MIXTURE%	FREQUENCY(Body) 835MHz
Water	52.5
Sugar	45
Salt	1.4
Preventol	0.1
Cellulose	1.0
Dielectric Parameters Target Value	f=835MHz $\epsilon=55.2$ $\sigma=0.97$

MIXTURE%	FREQUENCY(Body) 1750MHz
Water	69.91
Glycol	29.97
Salt	0.12
Dielectric Parameters Target Value	f=1750MHz $\epsilon=53.4$ $\sigma=1.49$

MIXTURE%	FREQUENCY (Body) 1900MHz
Water	69.91
Glycol monobutyl	29.96
Salt	0.13
Dielectric Parameters Target Value	f=1900MHz $\epsilon=53.3$ $\sigma=1.52$

MIXTURE%	FREQUENCY(Body) 2450MHz
Water	73.2
Glycol	26.7
Salt	0.1
Dielectric Parameters Target Value	f=2450MHz $\epsilon=52.70$ $\sigma=1.95$

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4.2. Tissue-equivalent Liquid Properties

Table 5: Dielectric Performance of Tissue Simulating Liquid

Frequency	Test Date	Temp °C	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
835MHz (head)	2012-9-21	21.5	41.81	0.90	41.50	0.90	0.75	0
	2013-6-29	21.5	41.25	0.92	41.50	0.90	-0.60	2.22
1750MHz (head)	2012-10-13	21.5	39.17	1.40	40.10	1.37	-2.32	2.19
	2013-6-30	21.5	39.17	1.40	40.10	1.37	-2.32	2.19
1900MHz (head)	2012-10-9	21.5	40.82	1.41	40.00	1.40	2.05	0.71
	2013-6-29	21.5	38.33	1.45	40.00	1.40	-4.18	3.57
2450MHz (head)	2012-10-8	21.5	38.32	1.88	39.20	1.80	-2.24	4.44
	2013-7-3	21.5	38.53	1.86	39.20	1.80	-1.71	3.33
835MHz (body)	2012-9-29	21.5	54.54	0.97	55.20	0.97	-1.20	0
	2012-11-28	21.5	54.59	0.96	55.20	0.97	-1.11	-1.03
	2013-6-29	21.5	54.35	1.01	55.20	0.97	-1.54	4.12
1750MHz (body)	2012-10-12	21.5	52.65	1.48	53.40	1.49	-1.40	-0.67
	2012-11-26	21.5	52.62	1.49	53.40	1.49	-1.46	0
	2013-6-30	21.5	52.12	1.47	53.40	1.49	-2.40	-1.34
1900MHz (body)	2012-10-11	21.5	53.12	1.52	53.30	1.52	-0.34	0
	2012-11-26	21.5	53.10	1.53	53.30	1.52	-0.38	0.66
	2013-6-29	21.5	52.56	1.52	53.30	1.52	-1.39	0
2450MHz (body)	2012-10-11	21.5	50.69	1.90	52.70	1.95	-3.81	-2.56
	2013-7-3	21.5	51.69	1.903	52.70	1.95	-1.92	-2.41

5. System Check

5.1. Description of System Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured every day using the dielectric probe kit and the network analyzer. A system check measurement was made following the determination of the dielectric parameters of the simulates, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system check results (dielectric parameters and SAR values) are given in the table 6 and table 7.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.

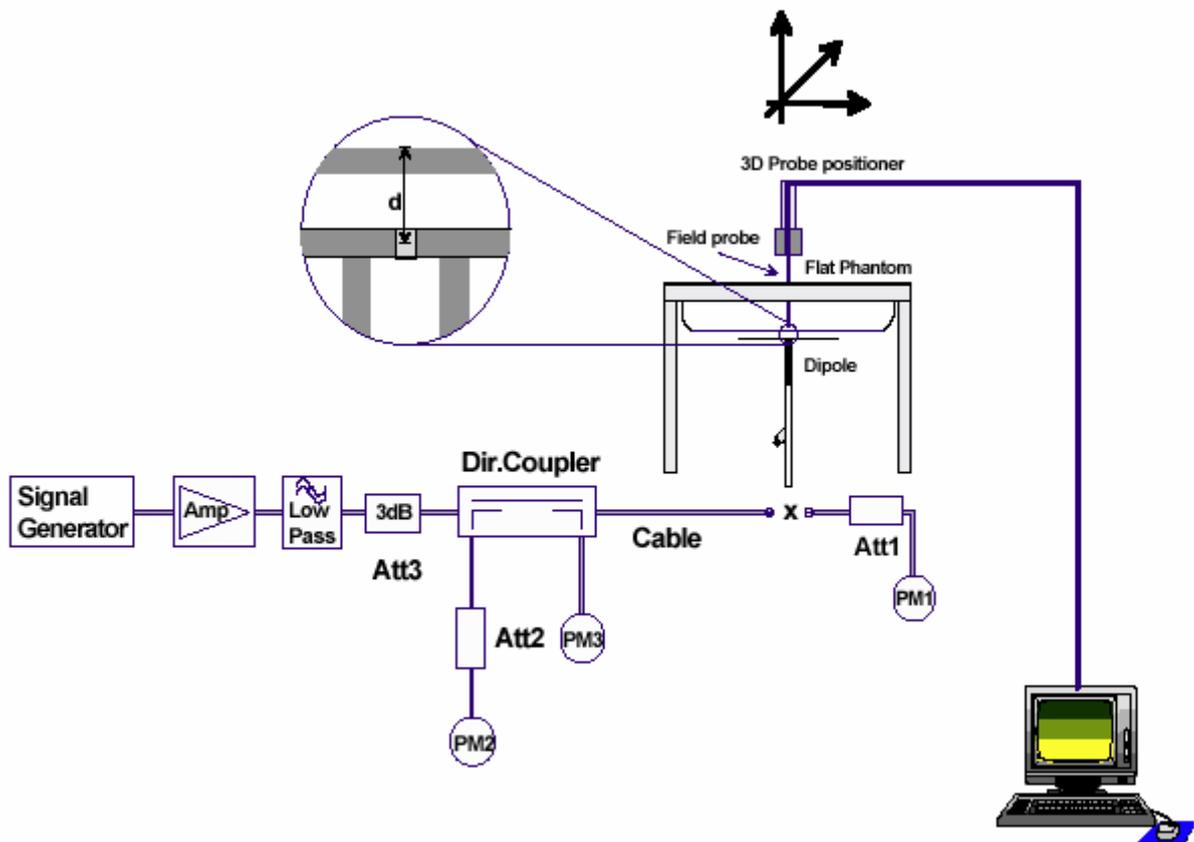


Figure 8 System Check Set-up

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Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (< - 20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB Publication 450824:

Dipole D835V2 SN: 4d020				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
8/26/2011	-27.7	/	52.9	/
8/25/2012	-29.1	5.0%	55.0	2.1 Ω
Body Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
8/26/2011	-25.1	/	48.7	/
8/25/2012	-24.3	3.2 %	50.6	1.9 Ω

Dipole D1750V2 SN: 1033				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
5/17/2010	-38.1	/	49.4	/
5/16/2011	-36.5	4.2%	51.1	1.7 Ω
5/15/2012	-36.7	3.7%	50.9	1.5 Ω
Body Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
5/17/2010	-25.7	/	45.1	/
5/16/2011	-26.4	2.7 %	46.7	1.6 Ω
5/15/2012	-24.9	3.1%	46.9	1.8 Ω

Dipole D1900V2 SN: 5d060				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
8/31/2011	-22.3	/	52.6	/
8/30/2012	-21.7	2.7%	51.4	1.2 Ω
Body Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
8/31/2011	-21.3	/	47.3	/
8/30/2012	-20.9	1.9%	45.9	1.4 Ω

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Dipole D2450V2 SN: 786				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
8/29/2011	-25.5	/	55	/
8/28/2012	-24.4	4.3%	53.3	1.7 Ω
Body Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
8/29/2011	-29.0	/	50.4	/
8/28/2012	-28.1	3.1%	48.9	1.5 Ω

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5.2. System Check Results

Table 6: System Check in Head Tissue Simulating Liquid

Frequency	Test Date	Dielectric Parameters		Temp	250mW Measured SAR _{1g}	1W Normalized SAR _{1g}	1W Target SAR _{1g}	Limit (±10% Deviation)
		ϵ_r	σ (s/m)	(°C)	(W/kg)			
835MHz	2012-9-21	41.81	0.90	21.5	2.44	9.76	9.34	4.50
	2013-6-29	41.25	0.916	21.5	2.43	9.72	9.34	4.07
1750MHz	2012-10-13	39.17	1.40	21.5	8.61	34.44	36.10	-4.60
	2013-6-30	39.17	1.40	21.5	8.68	34.72	35.80	-3.02
1900MHz	2012-10-9	40.82	1.41	21.5	9.48	37.92	40.30	-5.91
	2013-6-29	38.33	1.45	21.5	9.46	37.84	40.30	-6.10
2450MHz	2012-10-8	38.32	1.88	21.5	13.70	54.80	53.80	1.86
	2013-7-3	38.53	1.86	21.5	13.40	53.60	53.80	-0.37

Note: 1. The graph results see ANNEX B.

2. Target Values used derive from the calibration certificate

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Table 7: System Check in Body Tissue Simulating Liquid

Frequency	Test Date	Dielectric Parameters		Temp (°C)	250mW Measured SAR _{1g}	1W Normalized SAR _{1g}	1W Target SAR _{1g}	Limit (±10% Deviation)
		ϵ_r	σ (s/m)		(W/kg)			
835MHz	2012-9-29	54.54	0.97	21.5	2.41	9.64	9.46	1.90
	2012-11-28	54.59	0.96	21.5	2.40	9.60	9.46	1.48
	2013-6-29	54.35	1.01	21.5	2.41	9.64	9.46	1.90
1750MHz	2012-10-12	52.65	1.48	21.5	8.73	34.92	38.50	-9.30
	2012-10-24	52.64	1.49	21.5	8.71	34.86	38.50	-9.45
	2012-11-26	52.62	1.49	21.5	8.71	34.86	38.50	-9.45
	2013-6-30	52.12	1.47	21.5	8.72	34.88	37.00	-5.73
1900MHz	2012-10-11	53.12	1.52	21.5	9.93	39.72	41.70	-4.75
	2012-10-24	53.10	1.53	21.5	9.95	39.8	41.70	-4.56
	2012-11-26	53.10	1.53	21.5	9.92	39.68	41.70	-4.84
	2013-6-29	52.56	1.52	21.5	9.92	39.68	41.70	-4.84
2450MHz	2012-10-8	50.69	1.90	21.5	12.90	51.60	51.70	-0.19
	2012-10-24	50.70	1.90	21.5	12.70	50.80	51.70	-1.74
	2013-7-3	51.69	1.903	21.5	12.90	51.60	51.70	-0.19

Note: 1. The graph results see ANNEX B.

2. Target Values used derive from the calibration certificate

6. Operational Conditions during Test

6.1. General Description of Test Procedures

A communication link is set up with a System Simulator (SS) by air link, and a call is established, The EUT is commanded to operate at maximum transmitting power.

Connection to the EUT is established via air interface with E5515C of CDMA band, CMW500 of LTE band, the EUT is set to maximum output power by E5515C and CMW500. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. The antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the EUT. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the EUT by at least 30 dB.

6.2. Information for the Measurement of CDMA 1x Devices

6.2.1. Output Power Verification

Test Parameter setup for maximum RF output power according to section 4.4.5 of 3GPP2

Parameter	Units	Value
I or	dBm/1.23MHz	-104
PilotE c /I or	dB	-7
TrafficE c /I or	dB	-7.4

For SAR test, the maximum power output is very important and essential; it is identical under the measurement uncertainty. It is proper to use typical Test Mode 3 (FW RC3, RVS RC3, SO55) as the worst case for SAR test.

6.2.2. Head SAR Measurement

SAR is measured in RC3 with the DUT configured to transmit at full rate using Loopback Service Option SO55. SAR for RC1 is not required because the maximum average output of each channel is less than 0.25 dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel in RC1 using the exposure configuration that results in the highest SAR for that channel in RC3.

6.2.3. Body SAR Measurement

SAR is measured in RC3 with the EUT configured to transmit at full rate using TDSO/SO32, transmit at full rate on FCH with all other code channels disabled. SAR for multiple code channels (FCH+SCHn) is not required when the maximum average output of each RF channel is less than 0.25dB higher than measured with FCH only.

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Body SAR in RC1 is not required because the maximum average output of each channel is less than 0.25 dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel in RC1; with Loopback Service Option SO55, at full rate using the body exposure configuration that results in the highest SAR for that channel in RC3.

Test communication setup meet as followings:

Communication standard between mobile station and base station simulator	3GPP2 C.S0011-B
Radio configuration	RC3 (Supporting CDMA 1X)
Spreading Rate	SR1
Data Rate	9600bps
Service Options	SO55 (loop back mode)
Service Options	SO32 (test data service mode)
Multiplex Options	The mobile station does not support this service.

6.3. Handsets with Ev-Do

For handsets with Ev-Do capabilities, when the maximum average output of each channel in Rev. 0 is less than ¼ dB higher than that measured in RC3 (1x RTT), body SAR for Ev-Do is not required. Otherwise, SAR for Rev. 0 is measured on the maximum output channel, at 153.6 kbps using the body exposure configuration that results in the highest SAR for that channel in RC3. SAR for Rev. A is not required when the maximum average output of each channel is less than that measured in Rev. 0 or less than ¼ dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel for Rev. A using a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations. A Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with the ACK Channel transmitting in all slots should be configured in the downlink for both Rev. 0 and Rev. A.

6.4. Handsets with 1X Advanced

The existing CDMA2000 1x procedures in KDB pub 941225 to measure the maximum output power for 1x Advanced using SO75 with RC8 on the UL and RC11 on the DL. Smart blanking must be disabled. Use Forward Power Control Mode 000 and 400 bps for Reverse Power Control; that is 400 kHz for both uplink and downlink power control.

Based on the maximum output power measured for 1x Advanced, apply the CDMA 2000 1x procedures to determine SAR exclusion; that is, SAR is not required if the maximum output for 1x Advanced is no more than 0.25 dB higher than the maximum measured for 1x. However, if the measured SAR in any 1x mode exposure conditions (head, body etc.) is larger than 1.2 W/kg, repeat the highest of those configurations above 1.2 W/kg for each exposure condition in 1x Advanced. All measured SAR in 1x mode higher than 1.5 W/kg must be repeated for 1x Advanced, instead of applying SO73 using voice echo.

6.4.1. LTE Test Configuration

A) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

B) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the *reported* SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

6.5. Measurement Variability

Per FCC KDB Publication 865664 D01v01, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

6.6. WIFI Test Configuration

For WLAN SAR testing, WLAN engineering testing software installed on the DUT can provide continuous transmitting RF signal. This RF signal utilized in SAR measurement has almost 100% duty cycle and its crest factor is 1.

For the 802.11b/g/n SAR tests, a communication link is set up with the test mode software for WIFI mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest data rate. Testing at higher data rates is not required when the maximum average output power is less than 0.25dB higher than those measured at the lowest data rate.

802.11b/g/n operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g/n modes are tested on the maximum average output channel;

SAR is not required for 802.11g/n channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels.

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6.7. Power Reduction operation

When power reduction is applied to certain wireless modes to satisfy SAR compliance for simultaneous transmission conditions, other equipment certification or operating requirements, include the maximum average conducted output power measured in each power reduction mode applicable to the simultaneous voice/data transmission configurations for such wireless configurations and frequency bands; and also include details of the power reduction implementation and measurement setup.

1. Power Reduction operation table for SV-LTE Mode

Mode	CDMA Current Voice Power (Trigger condition)	Reduced LTE Max Power for B2 & B4
SV-LTE Mode	$P < 18.5\text{dBm}$	23dBm
	$P \geq 18.5\text{dBm}$	18dBm
SV-LTE Mode&WIFI Hot spot Mode	$P < 12.5\text{dBm}$	23dBm
	$12.5\text{dBm} \leq P < 14.5\text{dBm}$	20dBm
	$P \geq 14.5\text{dBm}$	14dBm
LTE&WIFI hotspot	Hot spot session without SV-LTE	20dBm

6.8. Test Positions

6.8.1. Against Phantom Head

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

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

6.8.2. Body Worn Configuration

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When hot spot closed, the distance between the device and the phantom was kept 15mm. When hot spot opened, Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. The distance between the device and the phantom was kept 10mm of wireless routers.

7. Conducted Output Power Measurement

7.1. Conducted Power Results

Table 8: Conducted Power Measurement Results (original M931)

Hotspot closed

CDMA Cellular		Conducted Power(dBm)		
		Channel 1013	Channel 384	Channel 777
RC3	SO55 (Loopback)	24.03	23.94	24.28
	SO2 (Loopback)	24.23	24.14	24.42
	TDSO32 (FCH-SCH)	24.36	24.14	24.42
	TDSO32 (FCH)	24.18	24.07	24.41
RC1	SO55 (Loopback)	24.18	24.07	24.44
	SO2 (Loopback)	24.04	23.92	24.28
1X Advance	SO75	24.05	23.79	24.06
	SO73	24.13	24.02	24.25
CDMA PCS		Conducted Power(dBm)		
		Channel 25	Channel 600	Channel 1175
RC3	SO55 (Loopback)	23.81	23.82	23.88
	SO2 (Loopback)	23.81	23.84	23.89
	TDSO32 (FCH-SCH)	23.82	23.81	23.87
	TDSO32 (FCH)	23.81	23.82	23.89
RC1	SO55 (Loopback)	23.84	23.82	23.84
	SO2 (Loopback)	23.85	23.84	23.87
1X Advance	SO75	23.51	23.78	23.64
	SO73	23.43	23.79	23.56
EVDO Rev. 0		23.84	23.76	23.85

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EVDO Rev. A		23.83	23.74	23.83		
CDMA AWS		Conducted Power(dBm)				
		Channel 25	Channel 450	Channel 875		
RC3	SO55 (Loopback)	24.24	24.28	24.35		
	SO2 (Loopback)	24.24	24.28	24.33		
	TDSO32 (FCH-SCH)	24.24	24.26	24.32		
	TDSO32 (FCH)	24.23	24.27	24.32		
RC1	SO55 (Loopback)	24.28	24.28	24.32		
	SO2 (Loopback)	24.26	24.33	24.35		
1X Advance	SO75	24.08	24.07	24.02		
	SO73	24.08	24.08	24.01		
EVDO Rev. 0		24.15	24.12	24.17		
EVDO Rev. A		24.13	24.12	24.16		
LTE Band 2				Conducted Power (dBm)		
Bandwidth	Modulation	RB	RB Start	Channel 18607	Channel 18900	Channel 19193
1.4MHz	QPSK	1	0	23.83	23.77	23.64
		1	5	23.61	23.61	23.67
		3	2	23.66	23.66	23.54
		6	0	22.59	22.63	22.68
	16QAM	1	0	22.55	22.83	22.62
		1	5	22.73	22.71	22.82
		3	2	22.59	22.68	22.46
		6	0	21.77	21.71	21.51
Bandwidth	Modulation	RB	RB Start	Channel 18615	Channel 18900	Channel 19185
3MHz	QPSK	1	0	23.65	23.73	23.53
		1	14	23.93	23.62	23.36
		8	4	22.75	22.62	22.55
		15	0	22.77	22.61	22.58
	16QAM	1	0	22.61	22.63	22.66
		1	14	22.98	22.59	22.57
		8	4	21.66	21.69	21.57
		15	0	21.78	21.66	21.55
Bandwidth	Modulation	RB	RB Start	Channel 18625	Channel 18900	Channel 19175

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5MHz	QPSK	1	0	23.53	23.67	23.79
		1	24	23.79	23.77	23.54
		12	6	22.88	22.51	22.64
		25	0	22.77	22.44	22.52
	16QAM	1	0	22.62	22.58	22.68
		1	24	22.71	22.76	22.48
		12	6	21.81	21.62	21.55
		25	0	21.75	21.56	21.57
Bandwidth	Modulation	RB	RB Start	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	23.72	23.84	23.79
		1	49	23.74	23.74	23.61
		25	13	22.76	22.58	22.87
		50	0	22.74	22.53	22.67
	16QAM	1	0	22.73	22.84	22.97
		1	49	22.71	22.79	22.74
		25	13	21.98	21.47	21.96
		50	0	21.64	21.49	21.69
LTE Band 4				Conducted Power (dBm)		
Bandwidth	Modulation	RB	RB Start	Channel 19957	Channel 20175	Channel 20393
1.4MHz	QPSK	1	0	23.72	23.64	23.72
		1	5	23.72	23.64	23.72
		3	2	23.71	23.78	23.65
		6	0	22.79	22.88	22.76
	16QAM	1	0	22.47	22.68	22.97
		1	5	22.67	22.58	22.69
		3	2	22.61	22.71	22.54
		6	0	21.87	21.95	21.74
Bandwidth	Modulation	RB	RB Start	Channel 19965	Channel 20175	Channel 20383
3MHz	QPSK	1	0	23.66	23.58	23.73
		1	14	23.79	23.82	23.64
		8	4	22.65	22.87	22.87
		15	0	22.67	22.78	22.85
	16QAM	1	0	22.64	22.61	22.92
		1	14	22.61	22.86	22.69
		8	4	21.82	21.93	21.96
		15	0	21.63	21.92	21.69
Bandwidth	Modulation	RB	RB Start	Channel 19975	Channel 20175	Channel 20375
5MHz	QPSK	1	0	23.67	23.69	23.72
		1	24	23.77	23.81	23.69
		12	6	22.97	22.84	22.64

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	16QAM	25	0	22.65	22.74	22.69
		1	0	22.56	22.45	22.56
		1	24	22.69	22.82	22.67
		12	6	21.96	21.72	21.65
		25	0	21.73	21.87	21.72
Bandwidth	Modulation	RB	RB Start	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	23.76	23.78	23.75
		1	49	23.78	23.98	23.92
		25	13	22.83	22.78	22.78
		50	0	22.76	22.72	22.86
	16QAM	1	0	22.67	22.33	22.45
		1	49	22.66	22.76	22.67
		25	13	21.75	21.88	21.85
		50	0	21.73	21.63	21.73

SVLTE (Hotspot closed)

CDMA Cellular 1X		SVLTE1900 (10MHz)							
Channel	output power(dBm)	QPSK				16QAM			
		1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
1013	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17.5	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
384	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17.5	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
24	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61	

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777	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17.5	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	24	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
CDMA PCS 1X		SVLTE1900 (10MHz)							
Channel	output power(dBm)	QPSK				16QAM			
		1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
25	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18.5	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	24	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
600	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18.5	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	24	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
1175	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	18.5	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61

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	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	24	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
CDMA AWS 1X		SVLTE1900 (10MHz)							
		QPSK				16QAM			
Channel	output power (dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
25	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17.5	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	18	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
450	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17.5	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	18	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
875	15	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	16	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17	23.47	23.62	22.48	22.44	22.44	22.58	21.64	21.45
	17.5	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	18	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	19	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	20	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	21	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	22	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
	23	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61
24	19.56	19.83	19.68	19.65	19.56	19.75	19.68	19.61	
CDMA Cellular 1X		SVLTE1700 (10MHz)							

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		QPSK				16QAM			
Channel	output power(dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
1013	15	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	16	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17.5	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	18	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	19	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	20	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	21	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	22	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	23	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
384	15	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	16	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17.5	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	18	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	19	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	20	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	21	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	22	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	23	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
777	15	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	16	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17.5	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	18	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	19	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	20	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	21	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	22	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	23	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
CDMA PCS 1X		SVLTE1700 (10MHz)							
		QPSK				16QAM			
Channel	output power(dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
25	15	23.56	23.37	22.35	22.2	22.54	22.43	21.35	21.3
	16	23.56	23.37	22.35	22.2	22.54	22.43	21.35	21.3

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	17	23.56	23.37	22.35	22.2	22.54	22.43	21.35	21.3
	18	23.56	23.37	22.35	22.2	22.54	22.43	21.35	21.3
	18.5	19.68	19.56	19.62	19.6	19.68	19.56	19.62	19.6
	19	19.68	19.56	19.62	19.6	19.68	19.56	19.62	19.6
	20	19.68	19.56	19.62	19.6	19.68	19.56	19.62	19.6
	21	19.68	19.56	19.62	19.6	19.68	19.56	19.62	19.6
	22	19.68	19.56	19.62	19.6	19.68	19.56	19.62	19.6
	23	19.68	19.56	19.62	19.6	19.68	19.56	19.62	19.6
	24	19.68	19.56	19.62	19.6	19.68	19.56	19.62	19.6
600	15	23.42	23.56	22.39	22.18	22.54	22.43	21.35	21.3
	16	23.42	23.56	22.39	22.18	22.54	22.43	21.35	21.3
	17	23.42	23.56	22.39	22.18	22.54	22.43	21.35	21.3
	18	23.42	23.56	22.39	22.18	22.54	22.43	21.4	21.32
	18.5	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	19	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	20	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	21	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	22	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	23	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	24	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
1175	15	23.42	23.56	22.39	22.18	22.54	22.43	21.35	21.3
	16	23.42	23.56	22.39	22.18	22.54	22.43	21.35	21.3
	17	23.42	23.56	22.39	22.18	22.54	22.43	21.4	21.32
	18	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	18.5	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	19	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	20	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	21	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	22	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	23	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
	24	19.68	19.63	19.65	19.61	19.64	19.62	19.47	19.4
CDMA AWS 1X		SVLTE1700 (10MHz)							
		QPSK				16QAM			
Channel	output power (dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
25	15	23.56	23.39	22.31	22.16	22.45	22.41	21.49	21.38
	16	23.56	23.39	22.31	22.16	22.45	22.41	21.49	21.38
	17	23.56	23.39	22.31	22.16	22.45	22.41	21.49	21.38
	17.5	19.66	19.65	19.64	19.59	19.66	19.53	19.57	19.56
	18	19.66	19.65	19.64	19.59	19.66	19.53	19.57	19.56
	19	19.66	19.65	19.64	19.59	19.66	19.53	19.57	19.56
	20	19.66	19.65	19.64	19.59	19.66	19.53	19.57	19.56
21	19.66	19.65	19.64	19.59	19.66	19.53	19.57	19.56	

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	22	19.66	19.65	19.64	19.59	19.66	19.53	19.57	19.56
	23	19.66	19.65	19.64	19.59	19.66	19.53	19.57	19.56
	24	19.66	19.65	19.64	19.59	19.66	19.53	19.57	19.56
450	15	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	16	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17.5	19.73	19.58	19.58	19.51	19.72	19.62	19.61	19.52
	18	19.73	19.58	19.58	19.51	19.72	19.62	19.61	19.52
	19	19.73	19.58	19.58	19.51	19.72	19.62	19.61	19.52
	20	19.73	19.58	19.58	19.51	19.72	19.62	19.61	19.52
	21	19.73	19.58	19.58	19.51	19.72	19.62	19.61	19.52
	22	19.73	19.58	19.58	19.51	19.72	19.62	19.61	19.52
	23	19.73	19.58	19.58	19.51	19.72	19.62	19.61	19.52
	24	19.73	19.58	19.58	19.51	19.72	19.62	19.61	19.52
875	15	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	16	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17	23.45	23.38	22.31	22.26	22.54	22.54	21.34	21.38
	17.5	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	18	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	19	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	20	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	21	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	22	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	23	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38
	24	19.64	19.62	19.67	19.6	19.53	19.48	19.43	19.38

Additional conducted power (change the NV to 14.5 dBm)

CDMA Cellular	Conducted Power(dBm)		
	Channel 1013	Channel 384	Channel 777
1X RTT	14.34	14.42	14.36
1X Advance	14.18	14.34	14.29
CDMA PCS	Conducted Power(dBm)		
	Channel 25	Channel 600	Channel 1175
1X RTT	14.26	14.3	14.38
1X Advance	14.18	14.28	14.35
CDMA AWS	Conducted Power(dBm)		
	Channel 25	Channel 450	Channel 875
1X RTT	14.21	14.42	14.45
1X Advance	14.2	14.36	14.42

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LTE Band 2				Conducted Power (dBm)		
Bandwidth	Modulation	RB	RB Start	Channel 18607	Channel 18900	Channel 19193
1.4MHz	QPSK	1	0	19.88	20.08	20.02
		1	5	19.98	20.05	20.03
		3	2	20.02	20.10	19.91
		6	0	19.95	20.02	19.95
	16QAM	1	0	19.64	19.71	19.92
		1	5	19.68	19.81	19.78
		3	2	19.94	19.95	19.85
		6	0	19.92	20.08	19.98
Bandwidth	Modulation	RB	RB Start	Channel 18615	Channel 18900	Channel 19185
3MHz	QPSK	1	0	19.88	20.1	20.12
		1	14	20.21	19.91	19.88
		8	4	20.13	20.05	20.02
		15	0	20.15	19.98	20.01
	16QAM	1	0	19.81	19.9	19.78
		1	14	20.1	19.78	19.62
		8	4	20.02	20.11	19.96
		15	0	20.1	20.02	19.92
Bandwidth	Modulation	RB	RB Start	Channel 18625	Channel 18900	Channel 19175
5MHz	QPSK	1	0	19.89	20.01	20.12
		1	24	20.13	19.98	19.89
		12	6	20.19	20.04	20.04
		25	0	20.15	20.01	20.05
	16QAM	1	0	19.82	19.85	19.91
		1	24	19.95	19.75	19.82
		12	6	20.1	19.9	20.02
		25	0	20.13	19.91	20.01
Bandwidth	Modulation	RB	RB Start	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	19.9	20.02	19.97
		1	49	20.17	19.97	19.98
		25	13	20.06	19.92	20.1
		50	0	20.1	19.89	19.88
	16QAM	1	0	19.68	19.79	19.6
		1	49	19.87	19.81	19.67
		25	13	19.97	19.95	19.91
		50	0	20.1	19.95	19.81
LTE Band 4				Conducted Power (dBm)		

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Bandwidth	Modulation	RB	RB Start	Channel 19957	Channel 20175	Channel 20393
1.4MHz	QPSK	1	0	20.13	20.08	20.05
		1	5	20.08	20.1	20.02
		3	2	20.02	20.04	20.01
		6	0	20.12	20.02	19.98
	16QAM	1	0	19.82	19.72	19.81
		1	5	19.91	19.85	19.86
		3	2	19.95	19.92	19.92
		6	0	20.02	20.04	19.95
Bandwidth	Modulation	RB	RB Start	Channel 19965	Channel 20175	Channel 20383
3MHz	QPSK	1	0	20.08	20.04	19.99
		1	14	20.12	20.05	20.02
		8	4	20.11	20.02	20.06
		15	0	20.12	20.03	20.06
	16QAM	1	0	19.92	19.95	19.65
		1	14	20.01	19.92	19.73
		8	4	20.1	20.02	19.93
		15	0	20.05	20.05	20.02
Bandwidth	Modulation	RB	RB Start	Channel 19975	Channel 20175	Channel 20375
5MHz	QPSK	1	0	20.12	20.12	20.03
		1	24	20.05	20.07	20.05
		12	6	20.08	20.09	20.03
		25	0	20.1	20.02	20
	16QAM	1	0	19.85	19.98	19.87
		1	24	19.92	19.92	19.85
		12	6	20.02	19.98	20.01
		25	0	20.03	20.01	20.02
Bandwidth	Modulation	RB	RB Start	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	20.07	20.03	20.1
		1	49	19.95	19.98	20.02
		25	13	20.02	19.99	19.98
		50	0	20.02	19.97	19.96
	16QAM	1	0	19.85	19.61	19.99
		1	49	19.70	19.68	19.89
		25	13	20.08	19.99	19.96
		50	0	19.98	19.89	19.89

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SVLTE (Hotspot opened)

CDMA Cellular 1X		SVLTE1900 (10MHz)							
		QPSK				16QAM			
Channel	output power(dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
1013	10	20.79	20.87	20.82	20.75	20.68	20.86	20.85	20.69
	11	20.79	20.87	20.82	20.75	20.68	20.86	20.85	20.69
	12	20.79	20.87	20.82	20.75	20.68	20.86	20.85	20.69
	12.5	19.01	18.82	18.91	18.9	18.69	18.92	18.91	18.89
	13	19.01	18.82	18.91	18.9	18.69	18.92	18.91	18.89
	14	19.01	18.82	18.91	18.9	18.69	18.92	18.91	18.89
	14.5	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	15	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	16	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	17	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	18	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	19	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	20	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	21	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	22	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
	23	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89
24	13.17	12.81	12.88	12.97	12.89	12.97	12.89	12.89	
384	10	20.83	20.87	20.81	20.75	20.81	20.89	20.79	20.71
	11	20.83	20.87	20.81	20.75	20.81	20.89	20.79	20.71
	12	20.83	20.87	20.81	20.75	20.81	20.89	20.79	20.71
	12.5	18.91	18.91	18.92	18.91	18.91	18.9	18.93	18.89
	13	18.91	18.91	18.92	18.91	18.91	18.9	18.93	18.89
	14	18.91	18.91	18.92	18.91	18.91	18.9	18.93	18.89
	14.5	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	15	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	16	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	17	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	18	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	19	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	20	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	21	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	22	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
	23	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93
24	13.48	13.35	13.78	12.95	13.73	13.26	13.09	12.93	
777	10	20.81	20.85	20.73	20.75	20.55	20.67	20.73	20.68
	11	20.81	20.85	20.73	20.75	20.55	20.67	20.73	20.68
	12	20.81	20.85	20.73	20.75	20.55	20.67	20.73	20.68
	12.5	18.97	19.01	18.94	18.91	18.65	18.87	18.91	18.81

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		13	18.97	19.01	18.94	18.91	18.65	18.87	18.91	18.81
		14	18.97	19.01	18.94	18.91	18.65	18.87	18.91	18.81
		14.5	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		15	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		16	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		17	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		18	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		19	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		20	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		21	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		22	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		23	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
		24	13.07	12.9	12.97	12.88	12.69	13.32	12.89	12.87
CDMA PCS 1X		SVLTE1900 (10MHz)								
		QPSK				16QAM				
Channel	output power(dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB	
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start	
25	10	20.81	20.99	20.79	20.68	20.78	20.76	20.79	20.69	
	11	20.81	20.99	20.79	20.68	20.78	20.76	20.79	20.69	
	12	20.81	20.99	20.79	20.68	20.78	20.76	20.79	20.69	
	12.5	18.89	19.03	18.92	19.01	18.83	19.01	18.83	18.73	
	13	18.89	19.03	18.92	19.01	18.83	19.01	18.83	18.73	
	14	18.89	19.03	18.92	19.01	18.83	19.01	18.83	18.73	
	14.5	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93	
	15	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93	
	16	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93	
	17	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93	
	18	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93	
	19	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93	
	20	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93	
	21	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93	
22	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93		
23	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93		
24	13.13	13.09	12.98	12.93	12.98	12.98	13.09	12.93		
600	10	20.79	20.92	20.76	20.66	20.74	20.73	20.75	20.67	
	11	20.79	20.92	20.76	20.66	20.74	20.73	20.75	20.67	
	12	20.79	20.92	20.76	20.66	20.74	20.73	20.75	20.67	
	12.5	18.83	19.13	18.95	19.06	18.86	18.81	18.82	18.77	
	13	18.83	19.13	18.95	19.06	18.86	18.81	18.82	18.77	
	14	18.83	19.13	18.95	19.06	18.86	18.81	18.82	18.77	
	14.5	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87	
	15	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87	
16	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87		

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	17	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87
	18	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87
	19	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87
	20	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87
	21	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87
	22	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87
	23	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87
	24	13.23	13.02	12.93	12.99	12.91	12.97	13.06	12.87
1175	10	20.85	20.94	20.74	20.61	20.76	20.73	20.73	20.66
	11	20.85	20.94	20.74	20.61	20.76	20.73	20.73	20.66
	12	20.85	20.94	20.74	20.61	20.76	20.73	20.73	20.66
	12.5	18.82	19.09	18.87	19.11	18.85	19.15	18.84	18.71
	13	18.82	19.09	18.87	19.11	18.85	19.15	18.84	18.71
	14	18.82	19.09	18.87	19.11	18.85	19.15	18.84	18.71
	14.5	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	15	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	16	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	17	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	18	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	19	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	20	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	21	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	22	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
	23	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92
24	13.21	13.03	12.92	12.86	12.88	12.98	13.01	12.92	
CDMA AWS 1X		SVLTE1900 (10MHz)							
		QPSK				16QAM			
Channel	output power (dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
25	10	20.75	20.81	20.73	20.65	20.74	20.72	20.75	20.62
	11	20.75	20.81	20.73	20.65	20.74	20.72	20.75	20.62
	12	20.75	20.81	20.73	20.65	20.74	20.72	20.75	20.62
	12.5	18.87	18.93	18.95	18.81	18.82	19.04	18.84	18.75
	13	18.87	18.93	18.95	18.81	18.82	19.04	18.84	18.75
	14	18.87	18.93	18.95	18.81	18.82	19.04	18.84	18.75
	14.5	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
	15	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
	16	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
	17	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
	18	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
	19	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
	20	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
21	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96	

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	22	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
	23	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
	24	13.17	13.19	12.94	12.93	12.95	12.92	13.05	12.96
450	10	20.86	20.92	20.74	20.64	20.76	20.72	20.77	20.66
	11	20.86	20.92	20.74	20.64	20.76	20.72	20.77	20.66
	12	20.86	20.92	20.74	20.64	20.76	20.72	20.77	20.66
	12.5	18.85	18.89	18.98	19.11	18.81	18.91	18.86	18.71
	13	18.85	18.89	18.98	19.11	18.81	18.91	18.86	18.71
	14	18.85	18.89	18.98	19.11	18.81	18.91	18.86	18.71
	14.5	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	15	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	16	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	17	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	18	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	19	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	20	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	21	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	22	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
	23	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94
24	13.15	13.13	12.89	12.95	12.96	12.97	13.05	12.94	
875	10	20.88	20.94	20.72	20.78	20.75	20.72	20.76	20.67
	11	20.88	20.94	20.72	20.78	20.75	20.72	20.76	20.67
	12	20.88	20.94	20.72	20.78	20.75	20.72	20.76	20.67
	12.5	18.83	19.01	18.96	19.05	18.86	19.08	18.87	18.71
	13	18.83	19.01	18.96	19.05	18.86	19.08	18.87	18.71
	14	18.83	19.01	18.96	19.05	18.86	19.08	18.87	18.71
	14.5	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	15	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	16	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	17	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	18	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	19	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	20	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	21	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	22	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
	23	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98
24	13.16	13.04	12.99	12.94	12.93	12.94	13.04	12.98	
CDMA Cellular 1X		SVLTE1700 (10MHz)							
		QPSK				16QAM			
Channel	output power(dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
1013	10	20.88	20.75	20.61	20.55	20.76	20.68	20.56	20.47
	11	20.88	20.75	20.61	20.55	20.76	20.68	20.56	20.47

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	12	20.88	20.75	20.61	20.55	20.76	20.68	20.56	20.47
	12.5	18.95	18.78	18.63	18.62	18.62	18.61	18.73	18.7
	13	18.95	18.78	18.63	18.62	18.62	18.61	18.73	18.7
	14	18.95	18.78	18.63	18.62	18.62	18.61	18.73	18.7
	14.5	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	15	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	16	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	17	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	18	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	19	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	20	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	21	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	22	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	23	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
	24	13.82	13.58	12.94	12.79	12.71	12.55	12.89	12.61
384	10	20.78	20.71	20.58	20.63	20.71	20.59	20.58	20.65
	11	20.78	20.71	20.58	20.63	20.71	20.59	20.58	20.65
	12	20.78	20.71	20.58	20.63	20.71	20.59	20.58	20.65
	12.5	18.82	18.75	18.68	18.65	18.58	18.66	18.61	18.58
	13	18.82	18.75	18.68	18.65	18.58	18.66	18.61	18.58
	14	18.82	18.75	18.68	18.65	18.58	18.66	18.61	18.58
	14.5	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
	15	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
	16	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
	17	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
	18	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
	19	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
	20	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
	21	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
	22	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27
23	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27	
24	13.75	13.73	12.91	12.79	12.88	12.79	12.83	12.27	
777	10	20.85	20.79	20.68	20.61	20.79	20.67	20.55	20.54
	11	20.85	20.79	20.68	20.61	20.79	20.67	20.55	20.54
	12	20.85	20.79	20.68	20.61	20.79	20.67	20.55	20.54
	12.5	18.85	18.81	18.63	18.66	18.77	18.68	18.75	18.61
	13	18.85	18.81	18.63	18.66	18.77	18.68	18.75	18.61
	14	18.85	18.81	18.63	18.66	18.77	18.68	18.75	18.61
	14.5	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
	15	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
	16	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
	17	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
	18	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
19	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43	

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	20	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
	21	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
	22	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
	23	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
	24	13.71	13.8	12.81	12.89	12.89	12.78	12.75	12.43
CDMA PCS 1X		SVLTE1700 (10MHz)							
		QPSK				16QAM			
Channel	output power(dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
25	10	20.81	20.68	20.61	20.59	20.98	20.86	20.74	20.63
	11	20.81	20.68	20.61	20.59	20.98	20.86	20.74	20.63
	12	20.81	20.68	20.61	20.59	20.98	20.86	20.74	20.63
	12.5	18.72	18.69	18.61	18.65	18.93	18.66	18.68	18.53
	13	18.72	18.69	18.61	18.65	18.93	18.66	18.68	18.53
	14	18.72	18.69	18.61	18.65	18.93	18.66	18.68	18.53
	14.5	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	15	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	16	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	17	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	18	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	19	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	20	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	21	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	22	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
	23	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95
24	13.95	13.7	12.77	12.9	12.95	12.97	12.85	12.95	
600	10	20.83	20.55	20.48	20.39	20.98	20.81	20.55	20.42
	11	20.83	20.55	20.48	20.39	20.98	20.81	20.55	20.42
	12	20.83	20.55	20.48	20.39	20.98	20.81	20.55	20.42
	12.5	18.87	17.89	17.63	17.59	18.79	18.61	18.37	18.39
	13	18.87	17.89	17.63	17.59	18.79	18.61	18.37	18.39
	14	18.87	17.89	17.63	17.59	18.79	18.61	18.37	18.39
	14.5	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	15	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	16	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	17	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	18	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	19	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	20	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	21	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	22	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
	23	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67
24	13.81	13.75	12.84	12.91	13.02	12.91	12.89	12.67	

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1175	10	20.67	20.62	20.58	20.51	20.72	20.67	20.62	20.57
	11	20.67	20.62	20.58	20.51	20.72	20.67	20.62	20.57
	12	20.67	20.62	20.58	20.51	20.72	20.67	20.62	20.57
	12.5	18.63	18.66	18.56	18.49	18.69	18.67	18.59	18.55
	13	18.63	18.66	18.56	18.49	18.69	18.67	18.59	18.55
	14	18.63	18.66	18.56	18.49	18.69	18.67	18.59	18.55
	14.5	18.63	18.66	18.56	18.49	18.69	18.67	18.59	18.55
	15	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46
	16	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46
	17	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46
	18	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46
	19	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46
	20	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46
	21	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46
	22	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46
23	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46	
24	13.56	13.51	12.37	12.29	12.41	12.38	12.44	12.46	
CDMA AWS 1X		SVLTE1700 (10MHz)							
		QPSK				16QAM			
Channel	output power (dBm)	1RB	1RB	25RB	50RB	1RB	1RB	25RB	50RB
		0 RB Start	49 RB Start	12 RB Start	0 RB Start	0 RB Start	49 RB Start	12 RB Start	0 RB Start
25	10	20.65	20.68	20.58	20.61	20.62	20.59	20.57	20.56
	11	20.65	20.68	20.58	20.61	20.62	20.59	20.57	20.56
	12	20.65	20.68	20.58	20.61	20.62	20.59	20.57	20.56
	12.5	18.6	18.82	18.65	18.75	18.61	18.57	18.59	18.65
	13	18.6	18.82	18.65	18.75	18.61	18.57	18.59	18.65
	14	18.6	18.82	18.65	18.75	18.61	18.57	18.59	18.65
	14.5	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
	15	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
	16	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
	17	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
	18	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
	19	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
	20	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
	21	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
	22	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29
23	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29	
24	13.58	13.51	12.81	12.72	12.54	12.25	12.25	12.29	
450	10	20.79	20.75	20.62	20.54	20.72	20.51	20.58	20.63
	11	20.79	20.75	20.62	20.54	20.72	20.51	20.58	20.63
	12	20.79	20.75	20.62	20.54	20.72	20.51	20.58	20.63
	12.5	18.85	18.76	18.71	18.63	18.89	18.61	18.68	18.65
	13	18.85	18.76	18.71	18.63	18.89	18.61	18.68	18.65

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	14	18.85	18.76	18.71	18.63	18.89	18.61	18.68	18.65
	14.5	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	15	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	16	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	17	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	18	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	19	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	20	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	21	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	22	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	23	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
	24	13.76	13.81	12.91	12.77	12.41	12.75	12.78	12.53
875	10	20.81	20.68	20.61	20.63	20.88	20.59	20.52	20.51
	11	20.81	20.68	20.61	20.63	20.88	20.59	20.52	20.51
	12	20.81	20.68	20.61	20.63	20.88	20.59	20.52	20.51
	12.5	18.87	18.75	18.78	18.71	18.79	18.58	18.73	18.61
	13	18.87	18.75	18.78	18.71	18.79	18.58	18.73	18.61
	14	18.87	18.75	18.78	18.71	18.79	18.58	18.73	18.61
	14.5	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42
	15	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42
	16	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42
	17	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42
	18	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42
	19	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42
	20	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42
	21	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42
22	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42	
23	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42	
24	13.15	13.47	12.87	12.92	12.75	12.95	12.86	12.42	

The output power of BT antenna is as following:

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz
GFSK	6.51	8.11	9.53
$\pi/4$ DQPSK	5.92	7.7	8.87
8DQPSK	6.44	7.96	9.15

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The output power of WIFI antenna is as following:

Mode	Channel	Data rate (Mbps)	AV Power (dBm)	Peak Power (dBm)
11b	1	1	15.3	18.09
		2	15.58	18.20
		5.5	15.61	18.22
		11	15.57	18.23
	6	1	15.36	18.27
		2	15.35	18.22
		5.5	15.34	18.33
		11	15.37	18.29
	11	1	15.46	17.92
		2	15.41	17.98
		5.5	15.39	17.96
		11	15.38	17.94
11g	1	6	13.5	16.87
		9	13.58	16.92
		12	13.53	16.85
		18	13.58	16.92
		24	13.55	16.96
		36	13.61	16.94
		48	15.56	16.98
		54	13.57	16.95
	6	6	12.04	15.58
		9	12.09	15.56
		12	12.15	15.66
		18	12.12	15.58
		24	12.06	15.63
		36	12.05	15.62
		48	12.10	15.57
		54	12.04	15.54
	11	6	13.29	16.74
		9	13.28	16.63
		12	13.17	16.62

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		18	13.15	16.58
		24	13.25	16.57
		36	13.36	16.63
		48	13.38	16.66
		54	13.34	16.85
11n HT20	1	6.5	12.5	16.07
		13	12.48	15.96
		19.5	12.35	15.72
		26	12.16	15.62
		39	11.67	15.07
		52	11.36	14.87
		58.5	11.22	14.68
		65	10.98	14.49
	6	6.5	12.43	15.80
		13	12.09	15.69
		19.5	12.07	15.45
		26	11.66	15.26
		39	11.59	15.19
		52	11.17	14.72
		58.5	11.07	14.58
		65	10.92	14.48
	11	6.5	12.28	15.73
		13	12.17	15.78
		19.5	12.09	15.55
		26	11.75	15.25
		39	11.58	14.78
		52	10.94	14.49
		58.5	10.86	14.33
		65	10.74	14.35

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Table 9: Conducted Power Measurement Results (NEW M931)

Hotspot closed

CDMA Cellular		Conducted Power(dBm)		
		Channel 1013	Channel 384	Channel 777
RC3	SO55 (Loopback)	23.27	23.38	23.44
	SO2 (Loopback)	23.28	23.35	23.46
	TDSO32 (FCH-SCH)	23.27	23.31	23.33
	TDSO32 (FCH)	23.22	23.29	23.32
RC1	SO55 (Loopback)	23.25	23.38	23.43
	SO2 (Loopback)	23.28	23.36	23.44
1X Advance	SO75	23.31	23.39	23.42
	SO73	23.29	23.4	23.45
EVDO Rev. 0		23.52	23.67	23.78
EVDO Rev. A		23.6	23.66	23.79
CDMA PCS		Conducted Power(dBm)		
		Channel 25	Channel 600	Channel 1175
RC3	SO55 (Loopback)	23.42	23.41	23.3
	SO2 (Loopback)	23.44	23.42	23.28
	TDSO32 (FCH-SCH)	23.46	23.41	23.36
	TDSO32 (FCH)	23.45	23.39	23.33
RC1	SO55 (Loopback)	23.43	23.42	23.32
	SO2 (Loopback)	23.42	23.4	23.32
1X Advance	SO75	23.48	23.46	23.37
	SO73	23.44	23.44	23.34
EVDO Rev. 0		23.85	23.82	23.74
EVDO Rev. A		23.88	23.81	23.76
CDMA AWS		Conducted Power(dBm)		
		Channel 25	Channel 450	Channel 875

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RC3	SO55 (Loopback)	23.44	23.48	23.55		
	SO2 (Loopback)	23.42	23.49	23.56		
	TDSO32 (FCH-SCH)	23.47	23.42	23.5		
	TDSO32 (FCH)	23.41	23.47	23.5		
RC1	SO55 (Loopback)	23.44	23.45	23.52		
	SO2 (Loopback)	23.41	23.48	23.51		
1X Advance	SO75	23.45	23.51	23.55		
	SO73	23.42	23.5	23.54		
EVDO Rev. 0		23.77	23.8	23.89		
EVDO Rev. A		23.71	23.82	23.88		
LTE Band 2				Conducted Power (dBm)		
Bandwidth	Modulation	RB	RB Start	Channel 18607	Channel 18900	Channel 19193
10MHz	QPSK	1	0	23.72	23.88	23.77
		1	49	23.74	23.73	23.63
		25	13	22.72	22.29	22.45
		50	0	22.31	22.17	22.58
	16QAM	1	0	22.72	22.82	22.92
		1	49	22.70	22.77	22.73
		25	13	22.21	21.45	22.01
		50	0	21.56	21.41	21.61
LTE Band 4				Conducted Power (dBm)		
Bandwidth	Modulation	RB	RB Start	Channel 19957	Channel 20175	Channel 20393
10MHz	QPSK	1	0	23.62	23.70	23.70
		1	49	23.71	23.79	23.81
		25	13	22.79	22.67	22.76
		50	0	22.71	22.31	22.80
	16QAM	1	0	22.53	22.21	22.16
		1	49	22.61	22.66	22.58
		25	13	21.67	21.71	21.54
		50	0	21.60	21.55	21.43

7.2. Standalone SAR Test Exclusion Considerations

Per FCC KDB 447498 D01, the SAR exclusion threshold for distances <50mm is defined by the following equation:

$$\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} * \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

Based on the above equation, Bluetooth SAR was required;

$$\text{Head Evaluation} = [10^{(10/10)}/5] * (2.480^{1/2}) = 3.1 > 3.0$$

$$\text{Body Evaluation} = [10^{(10/10)}/10] * (2.480^{1/2}) = 1.6 < 3.0$$

Based on the above equation, WiFi SAR was required;

$$\text{Head Evaluation} = [10^{(16/10)}/5] * (2.462^{1/2}) = 12.5 > 3.0$$

$$\text{Body Evaluation} = [10^{(16/10)}/10] * (2.462^{1/2}) = 6.2 > 3.0$$

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7.3. Summary of Measurement Results

7.3.1. CDMA Cellular (CDMA)

Table 10: SAR Values [CDMA Cellular (CDMA)](Original M931)

Test Position	Channel/ Frequency (MHz)	Service	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21dB	Limit SAR _{1g} 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Left/Cheek	384/836.52	RC3SO55	1:1	25	23.94	0.003	0.411	1.28	0.525	Figure20
Left/Tilt	384/836.52	RC3SO55	1:1	25	23.94	-0.013	0.276	1.28	0.352	Figure21
Right/Cheek	384/836.52	RC3SO55	1:1	25	23.94	-0.043	0.384	1.28	0.490	Figure22
Right/Tilt	384/836.52	RC3SO55	1:1	25	23.94	-0.004	0.256	1.28	0.327	Figure23
Worst Case Position with battery(SN: MAIC702X03600810)										
Left/Cheek	384/836.52	RC3SO55	1:1	25	23.94	-0.040	0.413	1.28	0.527	Figure24
Test Position of Body(Full Power)										
hotspot opened (Distance 10mm)										
Back Side	384/836.52	RC3SO32	1:1	25	24.14	-0.030	0.669	1.22	0.816	Figure25
Front Side	384/836.52	RC3SO32	1:1	25	24.14	-0.094	0.554	1.22	0.675	Figure26
Left Edge	384/836.52	RC3SO32	1:1	25	24.14	-0.006	0.545	1.22	0.664	Figure27
Right Edge	384/836.52	RC3SO32	1:1	25	24.14	-0.151	0.342	1.22	0.417	Figure28
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	384/836.52	RC3SO32	1:1	25	24.14	-0.140	0.143	1.22	0.174	Figure29
Worst Case Position with battery(SN: MAIC702X03600810) hotspot opened(Distance 10mm)										
Back Side	384/836.52	RC3SO32	1:1	25	24.14	-0.031	0.726	1.22	0.885	Figure30
hotspot closed(Distance 15mm)										
Back Side	384/836.52	RC3SO32	1:1	25	24.14	-0.058	0.564	1.22	0.688	Figure31
Front Side	384/836.52	RC3SO32	1:1	25	24.14	-0.071	0.493	1.22	0.601	Figure32
Worst Case Position with Earphone, hotspot closed (Distance 15mm)										
Back Side	384/836.52	RC3SO32	1:1	25	24.14	0.033	0.311	1.22	0.379	Figure33
Test Position of Body(Power=14.5dBm)										
hotspot opened (Distance 10mm)										
Back Side	384/836.52	RC3SO32	1:1	14.5	14.42	0.064	0.067	1.02	0.068	Figure34
Front Side	384/836.52	RC3SO32	1:1	14.5	14.42	0.126	0.05	1.02	0.051	Figure35
Left Edge	384/836.52	RC3SO32	1:1	14.5	14.42	-0.071	0.045	1.02	0.046	Figure36
Right Edge	384/836.52	RC3SO32	1:1	14.5	14.42	-0.011	0.029	1.02	0.030	Figure37
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	384/836.52	RC3SO32	1:1	14.5	14.42	0.068	0.017	1.02	0.017	Figure38
Worst Case Position with Earphone, hotspot opened (Distance 10mm)										
Back Side	384/836.52	RC3SO32	1:1	14.5	14.42	0.035	0.049	1.02	0.050	Figure39
Worst Case Position with battery(SN: MAIC702X03600810) hotspot opened(Distance 10mm)										
Back Side	384/836.52	RC3SO32	1:1	14.5	14.42	0.066	0.066	1.02	0.067	Figure40

Note: 1. The value with blue color is the maximum SAR Value of each test band.

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2. The SAR test shall be performed at the middle frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8W/kg), testing at the high and low channels is optional.
3. when the maximum average output of each channel in 1X Advance is less than ¼ dB higher than that measured in RC3 (1x RTT), SAR for 1X Advance is not required.
4. CDMA antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm(see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
5. SAR for Rev. A/0 is not required when the maximum average output of each channel is less than that measured in 1xRTT or less than ¼ dB higher than that measured in RC3.

Table 11: SAR Values [CDMA Cellular (CDMA)] (New M931)

Test Position	Channel/ Frequency (MHz)	Service	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21dB	Limit SAR _{1g} 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Left/Cheek	384/836.52	RC3SO55	1:1	25	23.38	-0.085	0.457	1.45	0.664	Figure255
Test Position of Body										
Back Side	777/848.31	RC3SO32	1:1	25	23.33	0.038	0.614	1.47	0.902	Figure256
	384/836.52	RC3SO32	1:1	25	23.31	-0.039	0.728	1.48	1.074	Figure257
	1013/824.7	RC3SO32	1:1	25	23.27	0.057	0.473	1.49	0.704	Figure258

Note: 1. The value with blue color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
3. The SAR result was tested in worst case position of the original M931 for new M931.

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7.3.2. CDMA PCS (CDMA)

Table 12: SAR Values [CDMA PCS (CDMA)] (Original M931)

Test Position	Channel/Frequency (MHz)	Service	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift	Limit SAR _{1g} 1.6 W/kg			
						± 0.21dB	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Left/Cheek	600/1880	RC3SO55	1:1	25	23.82	-0.099	0.473	1.31	0.621	Figure41
Left/Tilt	600/1880	RC3SO55	1:1	25	23.82	0.095	0.172	1.31	0.226	Figure42
Right/Cheek	600/1880	RC3SO55	1:1	25	23.82	0.196	0.231	1.31	0.303	Figure43
Right/Tilt	600/1880	RC3SO55	1:1	25	23.82	0.132	0.152	1.31	0.199	Figure44
Worst Case Position with battery(SN: MAIC702X03600810)										
Left/Cheek	600/1880	RC3SO55	1:1	25	23.82	-0.019	0.469	1.31	0.615	Figure45
Test Position of Body(Full Power)										
hotspot opened (Distance 10mm)										
Back Side	600/1880	RC3SO32	1:1	25	23.81	-0.050	0.758	1.32	0.997	Figure46
Front Side	600/1880	RC3SO32	1:1	25	23.81	-0.100	0.566	1.32	0.744	Figure47
Left Edge	600/1880	RC3SO32	1:1	25	23.81	0.024	0.232	1.32	0.305	Figure48
Right Edge	600/1880	RC3SO32	1:1	25	23.81	0.025	0.056	1.32	0.074	Figure49
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	1175/1908.75	RC3SO32	1:1	25	23.87	-0.009	1.13	1.30	1.466	Figure50
	600/1880	RC3SO32	1:1	25	23.81	-0.072	1.1	1.32	1.447	Figure51
	25/1851.25	RC3SO32	1:1	25	23.82	-0.078	0.926	1.31	1.215	Figure52
Worst Case Position with battery(SN: MAIC702X03600810) hotspot opened(Distance 10mm)										
Bottom Edge	1175/1908.75	RC3SO32	1:1	25	23.87	0.098	0.893	1.30	1.158	Figure53
hotspot closed(Distance 15mm)										
Back Side	600/1880	RC3SO32	1:1	25	23.81	-0.045	0.429	1.32	0.564	Figure54
Front Side	600/1880	RC3SO32	1:1	25	23.81	-0.183	0.336	1.32	0.442	Figure55
Worst Case Position with Earphone, hotspot closed (Distance 15mm)										
Back Side	600/1880	RC3SO32	1:1	25	23.81	0.171	0.443	1.32	0.583	Figure56
Test Position of Body(Power=14.5dBm)										
hotspot opened (Distance 10mm)										
Back Side	600/1880	RC3SO32	1:1	14.5	14.3	0.122	0.06	1.05	0.063	Figure57
Front Side	600/1880	RC3SO32	1:1	14.5	14.3	0.089	0.044	1.05	0.046	Figure58
Left Edge	600/1880	RC3SO32	1:1	14.5	14.3	0.050	0.014	1.05	0.015	Figure59
Right Edge	600/1880	RC3SO32	1:1	14.5	14.3	0.160	0.006	1.05	0.006	Figure60
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	600/1880	RC3SO32	1:1	14.5	14.3	0.011	0.059	1.05	0.062	Figure61
Worst Case Position with Earphone, hotspot opened (Distance 10mm)										
Back Side	600/1880	RC3SO32	1:1	14.5	14.3	0.075	0.056	1.05	0.059	Figure62
Worst Case Position with battery(SN: MAIC702X03600810) hotspot opened(Distance 10mm)										
Back Side	600/1880	RC3SO32	1:1	14.5	14.3	0.174	0.053	1.05	0.055	Figure63

Note: 1.The value with blue color is the maximum SAR Value of each test band.

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2. The SAR test shall be performed at the middle frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8W/kg), testing at the high and low channels is optional.
3. when the maximum average output of each channel in 1X Advance is less than ¼ dB higher than that measured in RC3 (1x RTT), SAR for 1X Advance is not required.
4. The (max.cube) labeling indicates that during the grid scanning an additional peak was found which was within 2.0dB of the highest peak. The value of the highest cube is given in the table above.
5. CDMA antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm(see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
6. SAR for Rev. A/0 is not required when the maximum average output of each channel is less than that measured in 1xRTT or less than ¼ dB higher than that measured in RC3.

Table 13: SAR Values [CDMA PCS (CDMA)] (New M931)

Test Position	Channel/Frequency (MHz)	Service	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift	Limit SAR _{1g} 1.6 W/kg			
						± 0.21dB	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Left/Cheek	600/1880	RC3SO55	1:1	25	23.41	0.010	0.452	1.44	0.652	Figure259
Test Position of Body										
Bottom Edge	1175/1908.75	RC3SO32	1:1	25	23.36	0.055	0.96	1.46	1.400	Figure260
Worst Case Position of Body with 1x advance										
Bottom Edge	1175/1908.75	RC3SO32	1:1	25	23.37	0.147	0.951	1.46	1.384	Figure261
Worst Case Position of Body with 1 st Repeated SAR										
Bottom Edge	1175/1908.75	RC3SO32	1:1	25	23.36	0.048	0.91	1.46	1.328	Figure262

Note: 1. The value with blue color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01v05, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
3. The SAR result was tested in worst case position of the original M931 for new M931.

Table 14: SAR Measurement Variability Results [CDMA PCS (CDMA)]

Test Position	Service	Channel/Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Bottom Edge	RC3 SO32	1175/1908.75	0.96	0.91	1.055	NA	NA

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

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7.3.3. Table 15: CDMA AWS (CDMA)

Table 16: SAR Values [CDMA AWS (CDMA)] (Original M931)

Test Position	Channel/Frequency (MHz)	Service	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift	Limit SAR _{1g} 1.6 W/kg			
						± 0.21dB	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Left/Cheek	450/1732.5	RC3SO55	1:1	25	24.28	0.149	0.685	1.18	0.809	Figure64
Left/Tilt	450/1732.5	RC3SO55	1:1	25	24.28	0.030	0.291	1.18	0.343	Figure65
Right/Cheek	450/1732.5	RC3SO55	1:1	25	24.28	0.097	0.363	1.18	0.428	Figure66
Right/Tilt	450/1732.5	RC3SO55	1:1	25	24.28	0.063	0.277	1.18	0.327	Figure67
Worst Case Position with battery(SN: MAIC702X03600810)										
Left/Cheek	450/1732.5	RC3SO55	1:1	25	24.28	-0.187	0.674	1.18	0.796	Figure68
Test Position of Body(Full Power)										
hotspot opened (Distance 10mm)										
Back Side	875/1753.75	RC3SO32	1:1	25	24.32	-0.146	0.837	1.17	0.979	Figure69
	450/1732.5	RC3SO32	1:1	25	24.26	-0.089	0.897	1.19	1.064	Figure70
	25/1711.25	RC3SO32	1:1	25	24.24	-0.196	0.818	1.19	0.974	Figure71
Front Side	450/1732.5	RC3SO32	1:1	25	24.26	0.140	0.7	1.19	0.830	Figure72
Left Edge	450/1732.5	RC3SO32	1:1	25	24.26	0.011	0.323	1.19	0.383	Figure73
Right Edge	450/1732.5	RC3SO32	1:1	25	24.26	0.005	0.059	1.19	0.070	Figure74
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	450/1732.5	RC3SO32	1:1	25	24.26	-0.159	0.733	1.19	0.869	Figure75
Worst Case Position with battery(SN: MAIC702X03600810) hotspot opened(Distance 10mm)										
Bottom Edge	450/1732.5	RC3SO32	1:1	25	24.26	-0.058	0.845	1.19	1.002	Figure76
hotspot closed(Distance 15mm)										
Back Side	450/1732.5	RC3SO32	1:1	25	24.26	0.003	0.555	1.19	0.658	Figure77
Front Side	450/1732.5	RC3SO32	1:1	25	24.26	0.100	0.495	1.19	0.587	Figure78
Worst Case Position with Earphone, hotspot closed (Distance 15mm)										
Back Side	450/1732.5	RC3SO32	1:1	25	24.26	0.055	0.518	1.19	0.614	Figure79
Test Position of Body(Power=14.5dBm)										
hotspot opened (Distance 10mm)										
Back Side	450/1732.5	RC3SO32	1:1	14.5	14.42	0.072	0.039	1.02	0.040	Figure80
Front Side	450/1732.5	RC3SO32	1:1	14.5	14.42	0.096	0.036	1.02	0.037	Figure81
Left Edge	450/1732.5	RC3SO32	1:1	14.5	14.42	0.043	0.013	1.02	0.013	Figure82
Right Edge	450/1732.5	RC3SO32	1:1	14.5	14.42	0.099	0.003	1.02	0.003	Figure83
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	450/1732.5	RC3SO32	1:1	14.5	14.42	0.006	0.035	1.02	0.036	Figure84
Worst Case Position with Earphone, hotspot opened (Distance 10mm)										
Back Side	450/1732.5	RC3SO32	1:1	14.5	14.42	0.070	0.036	1.02	0.037	Figure85
Worst Case Position with battery(SN: MAIC702X03600810) hotspot opened(Distance 10mm)										
Back Side	450/1732.5	RC3SO32	1:1	14.5	14.42	0.001	0.039	1.02	0.040	Figure86

Note: 1.The value with blue color is the maximum SAR Value of each test band.

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2. The SAR test shall be performed at the middle frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8W/kg), testing at the high and low channels is optional.
3. when the maximum average output of each channel in 1X Advance is less than ¼ dB higher than that measured in RC3 (1x RTT), SAR for 1X Advance is not required.
4. CDMA antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm(see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
5. SAR for Rev. A/0 is not required when the maximum average output of each channel is less than that measured in 1xRTT or less than ¼ dB higher than that measured in RC3.

Table 17: SAR Values [CDMA AWS (CDMA)] (New M931)

Test Position	Channel/ Frequency (MHz)	Service	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21dB	Limit SAR _{1g} 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Left/Cheek	450/1732.5	RC3SO55	1:1	25	23.48	-0.042	0.535	1.42	0.759	Figure263
Test Position of Body										
Back Side	450/1732.5	RC3SO32	1:1	25	23.42	0.050	0.762	1.44	1.096	Figure264

Note: 1. The value with blue color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01v05, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3. The SAR result was tested in worst case position of the original M931 for new M931.

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7.3.4. LTE Band 2

Table 18: SAR Values (10MHz) (Original M931)

Test Position	Channel/Frequency (MHz)	Mode	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift	Limit SAR _{1g} 1.6 W/kg			
						± 0.21dB	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
50% RB (QPSK)										
Left/Cheek	18900/1880	0 Offset	1:1	23	22.58	0.191	0.426	1.10	0.469	Figure87
Left/Tilt	18900/1880	0 Offset	1:1	23	22.58	-0.028	0.381	1.10	0.420	Figure88
Right/Cheek	18900/1880	0 Offset	1:1	23	22.58	0.041	0.689	1.10	0.759	Figure89
Right/Tilt	18900/1880	0 Offset	1:1	23	22.58	-0.147	0.327	1.10	0.360	Figure90
Worst case position with 1 RB (QPSK)										
Right/Cheek	19150/1905	0 Offset	1:1	24	23.79	-0.188	0.878	1.05	0.921	Figure91
	18900/1880	0 Offset	1:1	24	23.84	0.078	0.879	1.04	0.912	Figure92
	18650/1855	0 Offset	1:1	24	23.72	-0.179	0.92	1.07	0.981	Figure93
	19150/1905	49 Offset	1:1	24	23.79	0.093	0.782	1.05	0.821	Figure94
	18900/1880	49 Offset	1:1	24	23.84	-0.035	0.999	1.04	1.036	Figure95
	18650/1855	49 Offset	1:1	24	23.72	0.077	1.09	1.07	1.163	Figure96
Worst case position with 50% RB (16QAM)										
Right/Cheek	18650/1855	0 Offset	1:1	22	21.47	0.121	0.579	1.13	0.654	Figure97
Worst case position with 1 RB (16QAM)										
Right/Cheek	18650/1855	0 Offset	1:1	23	22.84	0.152	0.684	1.04	0.710	Figure98
	18650/1855	49 Offset	1:1	23	22.79	0.013	0.931	1.05	0.977	Figure99
Worst Case Position with battery(SN: MAIC702X03600810)										
Right/Cheek	18650/1855	49 Offset	1:1	24	23.72	0.019	0.962	1.07	1.026	Figure100
Test Position of Body										
50% RB (QPSK) hotspot opened (Distance 10mm)										
Back Side	18900/1880	0 Offset	1:1	21	19.920	0.088	0.644	1.28	0.826	Figure101
Front Side	18900/1880	0 Offset	1:1	21	19.920	-0.126	0.488	1.28	0.626	Figure102
Left Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Right Edge	18900/1880	0 Offset	1:1	21	19.920	0.037	0.381	1.28	0.489	Figure103
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	18900/1880	0 Offset	1:1	21	19.920	-0.006	0.11	1.28	0.141	Figure104
Worst case position with 1 RB (QPSK) hotspot opened(Distance 10mm)										
Back Side	18900/1880	0 Offset	1:1	21	20.020	0.065	0.628	1.25	0.787	Figure105
	18900/1880	49 Offset	1:1	21	19.970	0.018	0.644	1.27	0.816	Figure106
Worst case position with 50% RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	18900/1880	0 Offset	1:1	21	19.950	0.147	0.639	1.27	0.814	Figure107
Worst case position with 1 RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	18900/1880	0 Offset	1:1	21	19.790	-0.028	0.601	1.32	0.794	Figure108
	18900/1880	49 Offset	1:1	21	19.810	0.072	0.643	1.32	0.846	Figure109

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50% RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	23	22.58	-0.069	0.614	1.10	0.676	Figure110
Front Side	18900/1880	0 Offset	1:1	23	22.58	0.060	0.475	1.10	0.523	Figure111
Worst Case Position with Earphone and 50% RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	23	22.58	0.184	0.511	1.10	0.563	Figure112
Worst case position with 1 RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	24	23.840	0.106	0.698	1.04	0.724	Figure113
	18900/1880	49 Offset	1:1	24	23.740	0.055	0.697	1.06	0.740	Figure114
Worst case position with 50% RB (16QAM) hotspot closed (Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	23	21.470	0.083	0.466	1.42	0.663	Figure115
Worst case position with 1 RB (16QAM) hotspot closed (Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	23	22.840	0.079	0.527	1.04	0.547	Figure116
	18900/1880	49 Offset	1:1	23	22.790	-0.032	0.601	1.05	0.631	Figure117
Test Position of Body(Full Power)										
50% RB (QPSK) hotspot opened (Distance 10mm)										
Back Side	19150/1905	0 Offset	1:1	23	22.87	0.037	0.966	1.03	0.995	Figure118
	18900/1880	0 Offset	1:1	23	22.58	-0.043	0.991	1.10	1.092	Figure119
	18650/1855	0 Offset	1:1	23	22.760	0.065	1.01	1.06	1.067	Figure120
Front Side	18900/1880	0 Offset	1:1	23	22.580	-0.020	0.7	1.10	0.771	Figure121
Left Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Right Edge	18900/1880	0 Offset	1:1	23	22.580	-0.121	0.562	1.10	0.619	Figure122
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	18900/1880	0 Offset	1:1	23	22.580	-0.125	0.146	1.10	0.161	Figure123
Worst case position with 1 RB (QPSK) hotspot opened(Distance 10mm)										
Back Side	18650/1855	0 Offset	1:1	24	23.840	0.050	1.2	1.04	1.245	Figure124
	18650/1855	49 Offset	1:1	24	23.740	0.079	1.19	1.06	1.263	Figure125
Worst case position with 50% RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	18650/1855	0 Offset	1:1	22	21.470	0.128	0.795	1.13	0.898	Figure126
Worst case position with 1 RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	18650/1855	0 Offset	1:1	23	22.840	0.050	0.869	1.04	0.902	Figure127
	18650/1855	49 Offset	1:1	23	22.790	0.044	0.858	1.05	0.901	Figure128

Note: 1. The value with blue color is the maximum SAR Value of each test band.

- The SAR test shall be performed at the middle frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8W/kg), testing at the high and low channels is optional.
- LTE antenna is located at bottom/right edge; antenna-to-top/left edge distance is more than 2.5 cm(see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
- Testing for 100% RB allocation is not required because the SAR value for 50% RB allocation is ≤ 1.45W/Kg, as per KDB 941225 D05 SAR for LTE Devices v01

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Table 19: SAR Values(1.4 MHz)

Test Position	Channel/ Frequency (MHz)	Mode	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21 dB	Limit SAR _{1g} 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
50% RB (QPSK)										
Left/Cheek	18900/1880	0 Offset	1:1	24	23.66	0.190	0.526	1.08	0.569	Figure129
Left/Tilt	18900/1880	0 Offset	1:1	24	23.66	0.068	0.491	1.08	0.531	Figure130
Right/Cheek	19193/1909.3	0 Offset	1:1	24	23.54	0.046	0.804	1.11	0.894	Figure131
	18900/1880	0 Offset	1:1	24	23.66	-0.042	0.936	1.08	1.012	Figure132
	18607/1850.7	0 Offset	1:1	24	23.66	0.066	0.966	1.08	1.045	Figure133
Right/Tilt	18900/1880	0 Offset	1:1	24	23.66	0.042	0.447	1.08	0.483	Figure134
Worst case position with 1 RB (QPSK)										
Right/Cheek	18607/1850.7	0 Offset	1:1	24	23.83	-0.142	1.03	1.04	1.071	Figure135
	18607/1850.7	6 Offset	1:1	24	23.61	0.117	1.07	1.09	1.171	Figure136
Worst case position with 50% RB (16QAM)										
Right/Cheek	18607/1850.7	0 Offset	1:1	23	22.59	-0.075	0.667	1.10	0.733	Figure137
Worst case position with 1 RB (16QAM)										
Right/Cheek	18607/1850.7	0 Offset	1:1	23	22.55	0.091	0.778	1.11	0.863	Figure138
	18607/1850.7	0 Offset	1:1	23	22.73	0.082	0.781	1.06	0.831	Figure139
Test Position of Body										
50% RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	24	23.660	0.039	0.778	1.08	0.841	Figure140
Front Side	18900/1880	0 Offset	1:1	24	23.660	-0.067	0.634	1.08	0.686	Figure141
Worst Case Position with Earphone and 50% RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	24	23.660	0.037	0.604	1.08	0.653	Figure142
Worst case position with 1 RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	24	23.770	0.083	0.771	1.05	0.813	Figure143
	18900/1880	6 Offset	1:1	24	23.610	0.064	0.794	1.09	0.869	Figure144
Worst case position with 50% RB (16QAM) hotspot closed (Distance 15mm)										
Back Side	18900/1880	2 Offset	1:1	23	22.680	-0.034	0.783	1.08	0.843	Figure145
Worst case position with 1 RB (16QAM) hotspot closed(Distance 15mm)										
Back Side	18900/1880	0 Offset	1:1	23	22.830	0.010	0.641	1.04	0.667	Figure146
	18900/1880	6 Offset	1:1	23	22.710	0.075	0.658	1.07	0.703	Figure147
Worst Case Position with battery (SN: MAIC702X03600810)										
Back Side	18900/1880	6 Offset	1:1	24	23.610	0.040	0.827	1.09	0.905	Figure148
Test Position of Body(Full Power)										
50% RB (QPSK) hotspot opened (Distance 10mm)										
Back Side	19193/1909.3	2 Offset	1:1	24	23.54	0.009	1.02	1.11	1.134	Figure149
	18900/1880	2 Offset	1:1	24	23.66	0.107	1.23	1.08	1.330	Figure150
	18607/1850.7	0 Offset	1:1	24	23.660	0.116	1.19	1.08	1.287	Figure151
Front Side	18900/1880	0 Offset	1:1	24	23.660	-0.129	0.832	1.08	0.900	Figure152

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Left Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Right Edge	18900/1880	0 Offset	1:1	24	23.660	0.036	0.752	1.08	0.813	Figure153
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	18900/1880	0 Offset	1:1	24	23.660	-0.107	0.187	1.08	0.202	Figure154
Worst case position with 1 RB (QPSK) hotspot opened(Distance 10mm)										
Back Side	18900/1880	0 Offset	1:1	24	23.770	0.031	1.19	1.05	1.255	Figure155
	18900/1880	6 Offset	1:1	24	23.610	0.051	1.21	1.09	1.324	Figure156
Worst case position with 50% RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	18900/1880	0 Offset	1:1	24	22.680	0.093	1.03	1.36	1.396	Figure157
Worst case position with 1 RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	18900/1880	0 Offset	1:1	24	22.830	0.031	0.967	1.31	1.266	Figure158
	18900/1880	6 Offset	1:1	24	22.710	0.068	0.964	1.35	1.297	Figure159
Worst Case Position with battery (SN: MAIC702X03600810)										
Back Side	18900/1880	0 Offset	1:1	24	23.66	-0.029	1.02	1.08	1.103	Figure160

Note: 1. The value with blue color is the maximum SAR Value of each test band.

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

3. LTE antenna is located at bottom/right edge; antenna-to-top/left edge distance is more than 2.5 cm(see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

4. Testing for 100% RB allocation is not required because the SAR value for 50% RB allocation is $\leq 1.45W/Kg$, as per KDB 941225 D05 SAR for LTE Devices v01

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Table 20: SAR Values (10MHz) (New M931)

Test Position	Channel/ Frequency (MHz)	Mode	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift	Limit SAR _{1g} 1.6 W/kg			
						± 0.21dB	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Right/Cheek	18650/1855	49 Offset	1:1	24	23.737	-0.008	0.873	1.06	0.928	Figure265
Test Position of Body(Distance 10mm ,Full Power)										
Back Side	18900/1880	0 Offset	1:1	24	23.875	-0.033	1.28	1.03	1.317	Figure266
		49 Offset	1:1	24	23.730	0.063	1.13	1.06	1.202	Figure267
Worst Case Position of Body with 1st Repeated SAR										
Back Side	18900/1880	0 Offset	1:1	24	23.875	0.031	1.28	1.03	1.317	Figure268

Note: 1. The value with blue color is the maximum SAR Value of each test band.
 2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
 3. The SAR result was tested in worst case position of the original M931 for new M931.

Table 21: SAR Measurement Variability Results

Test Position	Service	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Back Side	0 Offset	18900/1880	1.28	1.28	1.00	NA	NA

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

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7.3.5. LTE Band 4

Table 22: SAR Values(10MHz) (Original M931)

Test Position	Channel/ Frequency (MHz)	Mode	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21dB	Limit SAR _{1g} 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
50% RB (QPSK)										
Left/Cheek	20175/1732.5	0 Offset	1:1	23	22.78	-0.023	0.338	1.05	0.356	Figure161
Left/Tilt	20175/1732.5	0 Offset	1:1	23	22.78	0.074	0.329	1.05	0.346	Figure162
Right/Cheek	20175/1732.5	0 Offset	1:1	23	22.78	0.187	0.692	1.05	0.728	Figure163
Right/Tilt	20175/1732.5	0 Offset	1:1	23	22.78	-0.051	0.286	1.05	0.301	Figure164
Worst case position with 1 RB (QPSK)										
Right/Cheek	20350/1750	0 Offset	1:1	24	23.75	0.035	0.958	1.06	1.015	Figure165
	20175/1732.5	0 Offset	1:1	24	23.78	0.012	0.823	1.05	0.866	Figure166
	20000/1715	0 Offset	1:1	24	23.76	0.161	0.769	1.06	0.813	Figure167
	20350/1750	49 Offset	1:1	24	23.92	0.155	0.913	1.02	0.930	Figure168
	20175/1732.5	49 Offset	1:1	24	23.98	-0.004	0.933	1.00	0.937	Figure169
	20000/1715	49 Offset	1:1	24	23.78	-0.053	0.692	1.05	0.728	Figure170
Worst case position with 50% RB (16QAM)										
Right/Cheek	20350/1750	0 Offset	1:1	22	21.85	-0.004	0.610	1.04	0.631	Figure171
Worst case position with 1 RB (16QAM)										
Right/Cheek	20350/1750	0 Offset	1:1	23	22.45	-0.076	0.707	1.14	0.802	Figure172
	20350/1750	49 Offset	1:1	23	22.67	0.100	0.626	1.08	0.664	Figure173
Test Position of Body										
50% RB (QPSK) hotspot opened (Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	21	19.990	0.058	0.607	1.26	0.766	Figure174
Front Side	20175/1732.5	0 Offset	1:1	21	19.990	-0.042	0.450	1.26	0.568	Figure175
Left Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Right Edge	20175/1732.5	0 Offset	1:1	21	19.990	0.041	0.311	1.26	0.392	Figure176
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	20175/1732.5	0 Offset	1:1	21	19.990	-0.190	0.098	1.26	0.124	Figure177
Worst case position with 1 RB (QPSK) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	21	20.030	-0.021	0.601	1.25	0.751	Figure178
	20175/1732.5	49 Offset	1:1	21	19.980	0.049	0.625	1.26	0.790	Figure179
Worst case position with 50% RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	21	19.990	-0.097	0.578	1.26	0.729	Figure180
Worst case position with 1 RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	21	19.610	-0.033	0.616	1.38	0.848	Figure181
	20175/1732.5	49 Offset	1:1	21	19.680	-0.007	0.658	1.36	0.892	Figure182
50% RB (QPSK) hotspot closed (Distance 15mm)										

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Back Side	20175/1732.5	0 Offset	1:1	23	22.780	-0.006	0.583	1.05	0.613	Figure183
Front Side	20175/1732.5	0 Offset	1:1	23	22.780	0.030	0.423	1.05	0.445	Figure184
Worst Case Position with Earphone and 50% RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	20175/1732.5	0 Offset	1:1	23	22.780	0.123	0.559	1.05	0.588	Figure185
Worst case position with 1 RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	20175/1732.5	0 Offset	1:1	24	23.780	0.046	0.727	1.05	0.765	Figure186
	20175/1732.5	49 Offset	1:1	24	23.980	-0.124	0.715	1.00	0.718	Figure187
Worst case position with 50% RB (16QAM) hotspot closed (Distance 15mm)										
Back Side	20175/1732.5	0 Offset	1:1	22	21.880	0.025	0.440	1.03	0.452	Figure188
Worst case position with 1 RB (16QAM) hotspot closed (Distance 15mm)										
Back Side	20175/1732.5	0 Offset	1:1	23	22.330	-0.010	0.576	1.17	0.672	Figure189
	20175/1732.5	49 Offset	1:1	23	22.760	-0.014	0.571	1.06	0.603	Figure190
Test Position of Body(Full Power)										
50% RB (QPSK) hotspot opened (Distance 10mm)										
Back Side	20350/1750	0 Offset	1:1	23	22.78	0.027	0.901	1.05	0.948	Figure191
	20175/1732.5	0 Offset	1:1	23	22.78	0.137	0.957	1.05	1.007	Figure192
	20000/1715	0 Offset	1:1	23	22.830	0.025	0.830	1.04	0.863	Figure193
Front Side	20175/1732.5	0 Offset	1:1	23	22.780	0.084	0.684	1.05	0.720	Figure194
Left Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Right Edge	20175/1732.5	0 Offset	1:1	23	22.780	0.051	0.528	1.05	0.555	Figure195
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	20175/1732.5	0 Offset	1:1	23	22.780	-0.090	0.158	1.05	0.166	Figure196
Worst case position with 1 RB (QPSK) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	24	23.780	0.048	1.230	1.05	1.294	Figure197
	20175/1732.5	49 Offset	1:1	24	23.980	0.070	1.240	1.00	1.246	Figure198
Worst case position with 50% RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	22	21.880	0.132	0.767	1.03	0.788	Figure199
Worst case position with 1 RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	23	22.330	0.076	0.953	1.17	1.112	Figure200
	20175/1732.5	49 Offset	1:1	23	22.760	0.041	0.950	1.06	1.004	Figure201

Note: 1. The value with blue color is the maximum SAR Value of each test band.

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

3. LTE antenna is located at bottom/right edge; antenna-to-top/left edge distance is more than 2.5 cm(see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

4. Testing for 100% RB allocation is not required because the SAR value for 50% RB allocation is $\leq 1.45W/Kg$, as per KDB 941225 D05 SAR for LTE Devices v01

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Table 23: SAR Values(1.4 MHz)

Test Position	Channel/ Frequency (MHz)	Mode	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21dB	Limit SAR _{1g} 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
50% RB (QPSK)										
Left/Cheek	20175/1732.5	0 Offset	1:1	24	23.78	0.008	0.466	1.05	0.490	Figure202
Left/Tilt	20175/1732.5	0 Offset	1:1	24	23.78	-0.166	0.44	1.05	0.463	Figure203
Right/Cheek	20393/1754.3	0 Offset	1:1	24	23.65	-0.106	0.942	1.08	1.021	Figure204
	20175/1732.5	0 Offset	1:1	24	23.78	-0.092	0.883	1.05	0.929	Figure205
	19957/1710.7	0 Offset	1:1	24	23.71	0.079	0.667	1.07	0.713	Figure206
Right/Tilt	20175/1732.5	0 Offset	1:1	24	23.78	-0.026	0.362	1.05	0.381	Figure207
Worst case position with 1 RB (QPSK)										
Right/Cheek	20393/1754.3	0 Offset	1:1	24.000	23.72	0.071	1.00	1.07	1.067	Figure208
	20393/1754.3	6 Offset	1:1	24	23.72	0.069	0.967	1.07	1.031	Figure209
Worst case position with 50% RB (16QAM)										
Right/Cheek	20393/1754.3	0 Offset	1:1	23	22.54	-0.065	0.802	1.11	0.892	Figure210
Worst case position with 1 RB (16QAM)										
Right/Cheek	20393/1754.3	0 Offset	1:1	23.000	22.97	0.069	0.803	1.01	0.809	Figure211
	20393/1754.3	6 Offset	1:1	23	22.69	0.051	0.792	1.07	0.851	Figure212
Worst case position with battery (SN: MAIC702X03600810)										
Right/Cheek	20393/1754.3	0 Offset	1:1	24	23.72	0.066	0.99	1.07	1.056	Figure213
Test Position of Body										
50% RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	20175/1732.5	0 Offset	1:1	24	23.780	-0.005	0.739	1.05	0.777	Figure214
Front Side	20175/1732.5	0 Offset	1:1	24	23.780	-0.169	0.577	1.05	0.607	Figure215
Worst Case Position with Earphone and 50% RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	20175/1732.5	0 Offset	1:1	24	23.780	0.004	0.628	1.05	0.661	Figure216
Worst case position with 1 RB (QPSK) hotspot closed (Distance 15mm)										
Back Side	20175/1732.5	0 Offset	1:1	24	23.640	-0.171	0.753	1.09	0.818	Figure217
	20175/1732.5	6 Offset	1:1	24	23.640	0.099	0.758	1.09	0.824	Figure218
Worst case position with 50% RB (16QAM) hotspot closed (Distance 15mm)										
Back Side	20175/1732.5	2 Offset	1:1	23	22.710	0.113	0.572	1.07	0.611	Figure219
Worst case position with 1 RB (16QAM) hotspot closed(Distance 15mm)										
Back Side	20175/1732.5	0 Offset	1:1	23	22.680	0.012	0.574	1.08	0.618	Figure220
	20175/1732.5	6 Offset	1:1	23	22.580	-0.043	0.582	1.10	0.641	Figure221
Worst Case Position with battery (SN: MAIC702X03600810)										
Back Side	20175/1732.5	6 Offset	1:1	24	23.640	0.110	0.706	1.09	0.767	Figure222
Test Position of Body(Full Power)										
50% RB (QPSK) hotspot opened (Distance 10mm)										
Back Side	20393/1754.3	0 Offset	1:1	24	23.65	-0.085	1.13	1.08	1.225	Figure223

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	20175/1732.5	0 Offset	1:1	24	23.78	0.025	1.24	1.05	1.304	Figure224
	19957/1710.7	0 Offset	1:1	24	23.710	0.065	1.12	1.07	1.197	Figure225
Front Side	20393/1754.3	0 Offset	1:1	24	23.65	-0.149	0.945	1.08	1.024	Figure226
	20175/1732.5	0 Offset	1:1	24	23.78	0.033	0.91	1.05	0.957	Figure227
	19957/1710.7	0 Offset	1:1	24	23.710	-0.195	0.807	1.07	0.863	Figure228
Left Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Right Edge	20175/1732.5	0 Offset	1:1	24	23.780	-0.008	0.627	1.05	0.660	Figure229
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	20175/1732.5	0 Offset	1:1	24	23.780	0.024	0.201	1.05	0.211	Figure230
Worst case position with 1 RB (QPSK) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	24	23.640	-0.001	1.24	1.09	1.347	Figure231
	20175/1732.5	6 Offset	1:1	24	23.640	0.034	1.24	1.09	1.347	Figure232
Worst case position with 50% RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	23	22.710	0.088	1	1.07	1.069	Figure233
Worst case position with 1 RB (16QAM) hotspot opened(Distance 10mm)										
Back Side	20175/1732.5	0 Offset	1:1	23	22.680	-0.050	0.977	1.08	1.052	Figure234
	20175/1732.5	6 Offset	1:1	23	22.580	0.092	0.987	1.10	1.087	Figure235
Worst Case Position with battery (SN: MAIC702X03600810)										
Back Side	20175/1732.5	0 Offset	1:1	24	23.78	0.048	1.25	1.05	1.315	Figure236

Note: 1. The value with blue color is the maximum SAR Value of each test band.

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

3. LTE antenna is located at bottom/right edge; antenna-to-top/left edge distance is more than 2.5 cm(see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

4. Testing for 100% RB allocation is not required because the SAR value for 50% RB allocation is $\leq 1.45W/Kg$, as per KDB 941225 D05 SAR for LTE Devices v01

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Table 24: SAR Values(10MHz) (New M931)

Test Position	Channel/ Frequency (MHz)	Mode	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21dB	Limit SAR _{1g} 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Right/Cheek	20350/1750	0 Offset	1:1	24	23.7	-0.009	0.808	1.07	0.866	Figure269
Test Position of Body(Distance 10mm ,Full Power)										
Back Side	20175/1732.5	0 Offset	1:1	24	23.701	0.082	1.20	1.07	1.286	Figure270
	20175/1732.5	49 Offset	1:1	24	23.789	0.106	1.18	1.05	1.239	Figure271
Worst Case Position of Body with 1st Repeated SAR										
Back Side	20175/1732.5	0 Offset	1:1	24	23.701	0.1330	1.19	1.07	1.275	Figure272

Note: 1. The value with blue color is the maximum SAR Value of each test band.
 2. Per FCC KDB Publication 447498 D01v05, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
 3. The SAR result was tested in worst case position of the original M931 for new M931.

Table 25: SAR Measurement Variability Results

Test Position	Service	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Back Side	0 Offset	18900/1880	1.19	1.20	1.008	NA	NA

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

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Table 26: SAR Values (WIFI)

Test Position	Channel/ Frequency (MHz)	Service	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21dB	Limit of SAR 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Left/Cheek	11/2462	DSSS	1:1	16	15.46	0.05	0.117	1.13	0.132	Figure237
Left/Tilt	11/2462	DSSS	1:1	16	15.46	0.02	0.055	1.13	0.062	Figure238
Right/Cheek	11/2462	DSSS	1:1	16	15.46	0.147	0.135	1.13	0.153	Figure239
Right/Tilt	11/2462	DSSS	1:1	16	15.46	0.013	0.057	1.13	0.065	Figure240
Worst Case Position of Head with Battery (SN: MAIC702X03600810)										
Right/Cheek	11/2462	DSSS	1:1	16	15.46	-0.026	0.153	1.13	0.173	Figure241
Test position of Body (Distance 10mm)										
Back Side	11/2462	DSSS	1:1	16	15.46	-0.013	0.157	1.13	0.178	Figure242
Front Side	11/2462	DSSS	1:1	16	15.46	0.062	0.053	1.13	0.060	Figure243
Left Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Right Edge	11/2462	DSSS	1:1	16	15.46	0.079	0.092	1.13	0.104	Figure244
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Worst case position with Earphone										
Back Side	11/2462	DSSS	1:1	16	15.46	0.046	0.135	1.13	0.153	Figure245
Worst Case Position with Battery (SN: MAIC702X03600810)										
Back Side	11/2462	DSSS	1:1	16	15.46	0.033	0.147	1.13	0.166	Figure246
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2. SAR test at the channel with the maximum averaged output power channel.</p> <p>3. WLAN antenna is located at Right edge; antenna-to-Left edge/Top edge/Bottom edge distance is more than 2.5 cm (see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. Left Edge, Top Edge and Bottom Edge are excluded from hotspot mode SAR evaluation.</p> <p>4. KDB 248227-SAR is not required for 802.11g/n channels when the maximum average output power is less than ¼ dB higher than measured on the corresponding 802.11b channels.</p>										

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Table 27: SAR Values (BT)

Test Position	Channel/ Frequency (MHz)	Service	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift ± 0.21dB	Limit of SAR 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Test Position of Head										
Left/Cheek	78/2480	DSSS	1:1	10	9.53	0.151	0.000929	1.11	0.001	Figure273
Left/Tilt	78/2480	DSSS	1:1	10	9.53	0.060	0.000235	1.11	0.000	Figure274
Right/Cheek	78/2480	DSSS	1:1	10	9.53	0.056	0.00205	1.11	0.002	Figure275
Right/Tilt	78/2480	DSSS	1:1	10	9.53	0.117	0.00241	1.11	0.003	Figure276
Worst Case Position of Head with Battery (SN: MAIC702X03600810)										
Right/Tilt	78/2480	DSSS	1:1	10	9.53	0.153	0.00129	1.11	0.001	Figure277
Test position of Body (Distance 10mm)										
Back Side	78/2480	DSSS	1:1	10	9.53	0.039	0.028	1.11	0.031	Figure278
Front Side	78/2480	DSSS	1:1	10	9.53	-0.113	0.012	1.11	0.013	Figure279
Left Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Right Edge	78/2480	DSSS	1:1	10	9.53	-0.048	0.011	1.11	0.012	Figure280
Top Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom Edge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Worst Case Position with Battery (SN: MAIC702X03600810)										
Back Side	78/2480	DSSS	1:1	10	9.53	0.106	0.028	1.11	0.031	Figure281

Note: 1. The value with blue color is the maximum SAR Value of each test band.

2. SAR test at the channel with the maximum averaged output power channel.

3. WLAN antenna is located at Right edge; antenna-to-Left edge/Top edge/Bottom edge distance is more than 2.5 cm (see ANNEX R). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. Left Edge, Top Edge and Bottom Edge are excluded from hotspot mode SAR evaluation.

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7.4. Simultaneous Transmission Conditions

Air-Interface	Band (MHz)	Type	Simultaneous Transmissions Note: Not to be tested	Voice Over Digital Transport (Data)
CDMA	800	VO	Yes LTE, WIFI and BT	NA
	1700	VO		
	1900	VO		
	EVDO	DT	Yes WIFI and BT	NA
LTE	Band 2	DT	Yes CDMA, WIFI,BT	NA
	Band 4	DT	Yes CDMA, WIFI,BT	NA
WIFI	2450	DT	Yes CDMA, EVDO, LTE and BT	Yes
Bluetooth (BT)	2400	DT	Yes CDMA, EVDO, LTE and WIFI	NA

VO Voice CMRS/PSTN Service only

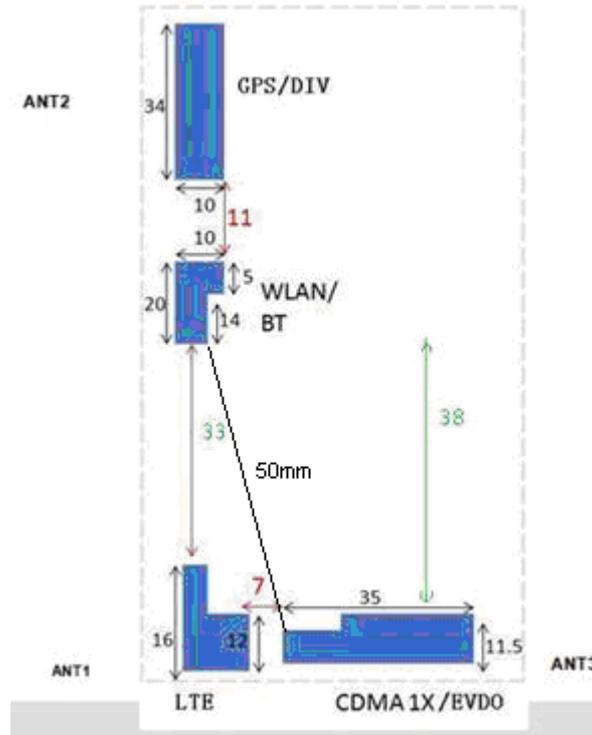
DT Digital Transport

Base on 6.7 chapter prior attached power reduction table, we apply simultaneous SAR test power setup as below table:

Mode	Power of CDMA (dBm)	Power of LTE(dBm)	Power of WiFi(dBm)	SAR test distance(mm)
CDMA &WIFI Mode	full power	N/A	full power	15(No- Hotspot)
CDMA &WiFi Hotspot Mode	full power	N/A	full power	10(Hotspot)
LTE& WiFi Mode	N/A	full power	full power	15(No- Hotspot)
LTE& WiFi Hotspot Mode	N/A	full power	full power	10(Hotspot)
SVLTE Mode	full power	full power	N/A	15(No- Hotspot)
SVLTE &WiFi Mode	full power	full power	full power	15(No- Hotspot)
SVLTE &WiFi Hotspot Mode	full power	20 (>14dBm Max reduced power)	full power	10(Hotspot)
	14.5(>12.5dBm Max reduced power)	full power	full power	10(Hotspot)

Note: The wifi body SAR value of 15mm is cover by 10mm SAR value.

The location of the antennas inside mobile phone.



Back Side

When standalone SAR is not required to be measured per FCC KDB 447498 D01, the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} * \frac{\sqrt{f \text{ (GHz)}}}{7.5}$$

Per FCC KDB 447498 D01, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When the sum is greater than the SAR limit, SAR test exclusion is determined by the SAR to peak location separation ratio.

$$\text{Ratio} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{(\text{peak location separation, mm})} < 0.04$$

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CDMA &WIFI Mode&BT Mode

Hotspot Closed (Full Power)

SAR _{1g} (W/kg) Test Position	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	BT	MAX. Σ SAR _{1g}
Left hand, Touch cheek	0.664	0.652	0.759	0.132	0.001	0.892
Left hand, Tilt 15 Degree	0.352	0.226	0.343	0.062	0.000	0.414
Right hand, Touch cheek	0.490	0.303	0.428	0.173	0.002	0.665
Right hand, Tilt 15 Degree	0.327	0.199	0.327	0.065	0.003	0.395
Body, Back Side	0.688	0.583	0.658	0.178	0.031	0.897
Body, Front Side	0.601	0.442	0.587	0.060	0.013	0.674

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+WIFI SAR_{MAX}+BT SAR_{MAX}

CDMA &WiFi Hotspot Mode&BT Mode

Hotspot opened (Full Power)

SAR _{1g} (W/kg) Test Position	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	BT	MAX. Σ SAR _{1g}
Body, Back Side	1.074	0.997	1.096	0.178	0.031	1.305
Body, Front Side	0.675	0.744	0.830	0.060	0.013	0.903
Body, Left Edge	0.664	0.305	0.383	NA	NA	NA
Body, Right Edge	0.417	0.074	0.070	0.104	0.012	0.533
Body, Top Edge	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.174	1.400	0.869	NA	NA	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+WIFI SAR_{MAX}+BT SAR_{MAX}

(CDMA Antenna SAR_{MAX})1.096 W/kg + (WIFI antenna SAR_{MAX})0.178 W/kg + (BT antenna SAR_{MAX})0.031 W/kg =1.305 W/kg <1.6 W/kg,So the Simultaneous SAR are not required for WIFI, BT and CDMA antenna antenna.

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Test Report

LTE& WiFi Mode &BT Mode

hotspot Closed, (Full Power)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	WIFI	BT	MAX. Σ SAR _{1g}
Left hand, Touch cheek	0.469	0.356	0.132	0.001	0.602
Left hand, Tilt 15 Degree	0.420	0.346	0.062	0.000	0.482
Right hand, Touch cheek	0.928	0.866	0.173	0.002	1.103
Right hand, Tilt 15 Degree	0.360	0.301	0.065	0.003	0.428
Body, Back Side	0.740	0.765	0.178	0.031	0.974
Body, Front Side	0.523	0.445	0.060	0.013	0.596

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =WIFI SAR_{MAX}+LTE SAR_{MAX}+BT SAR_{MAX}

LTE& WiFi Hotspot Mode&BT Mode

Hotspot opened (Full Power)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	WIFI	BT	MAX. Σ SAR _{1g}
Body, Back Side	1.317	1.286	0.178	0.031	1.526
Body, Front Side	0.771	0.720	0.060	0.013	0.844
Body, Left Edge	NA	NA	NA	NA	NA
Body, Right Edge	0.619	0.555	0.104	0.012	0.735
Body, Top Edge	NA	NA	NA	NA	NA
Body, Bottom Edge	0.161	0.166	NA	NA	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =WIFI SAR_{MAX}+LTE SAR_{MAX}+BT SAR_{MAX}

(LTE Antenna SAR_{MAX})1.317 W/kg + (WIFI antenna SAR_{MAX})0.178 W/kg + (BT antenna SAR_{MAX})0.031 W/kg =1.526 W/kg <1.6 W/kg,So the Simultaneous SAR are not required for WIFI, BT and LTE antenna.

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SVLTE Mode

Hotspot Closed, LTE (Full Power)/ CDMA (Full Power)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	MAX. Σ SAR _{1g}
Left hand, Touch cheek	0.469	0.356	0.664	0.652	0.759	1.228
Left hand, Tilt 15 Degree	0.420	0.346	0.352	0.226	0.343	0.772
Right hand, Touch cheek	0.928	0.866	0.490	0.303	0.428	1.418
Right hand, Tilt 15 Degree	0.360	0.301	0.327	0.199	0.327	0.687
Body, Back Side	0.740	0.765	0.688	0.583	0.658	1.453
Body, Front Side	0.523	0.445	0.601	0.442	0.587	1.124

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} = CDMA SAR_{MAX}+LTE SAR_{MAX}

hotspot opened, LTE (Full Power)/CDMA (Power=14.5 dBm)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	MAX. Σ SAR _{1g}
Body, Back Side	1.317	1.286	0.068	0.063	0.040	1.385
Body, Front Side	0.771	0.720	0.051	0.046	0.037	0.822
Body, Left Edge	NA	NA	0.046	0.015	0.013	NA
Body, Right Edge	0.619	0.555	0.030	0.006	0.003	0.649
Body, Top Edge	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.161	0.166	0.017	0.062	0.036	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+LTE SAR_{MAX}

Hotspot opened, CDMA (Full Power)/LTE (Power=20 dBm)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	MAX. Σ SAR _{1g}
Body, Back Side	0.826	0.766	1.074	0.997	1.096	1.922
Body, Front Side	0.626	0.568	0.675	0.744	0.830	1.456
Body, Left Edge	NA	NA	0.664	0.305	0.383	NA
Body, Right Edge	0.489	0.392	0.417	0.074	0.070	0.906
Body, Top Edge	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.141	0.124	0.174	1.400	0.869	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+LTE SAR_{MAX}

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SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	MAX. Σ SAR _{1g}
Body, Back Side	0.826	/	1.074	/	/	1.900
	0.826	/	/	0.997	/	1.823
	0.826	/	/	/	1.096	1.922
	/	0.766	1.074	/	/	1.840
	/	0.766	/	0.997	/	1.763
	/	0.766	/	/	1.096	1.862
Note: 1.The value with red color is the SAR _{1g} >1.6 W/kg.						

(LTE Antenna SAR_{MAX}) 0.826 W/kg + (CDMA antenna SAR_{MAX}) 1.096 W/kg =1.922 W/kg >1.6 W/kg, so the Simultaneous SAR are required for CDMA and LTE antenna.

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SVLTE Mode&BT Mode

Hotspot Closed, LTE (Full Power)/ CDMA (Full Power)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	BT	MAX. Σ SAR _{1g}
Left hand, Touch cheek	0.469	0.356	0.664	0.652	0.759	0.001	1.229
Left hand, Tilt 15 Degree	0.420	0.346	0.352	0.226	0.343	0.000	0.772
Right hand, Touch cheek	0.928	0.866	0.490	0.303	0.428	0.002	1.420
Right hand, Tilt 15 Degree	0.360	0.301	0.327	0.199	0.327	0.003	0.690
Body, Back Side	0.740	0.765	0.688	0.583	0.658	0.031	1.484
Body, Front Side	0.523	0.445	0.601	0.442	0.587	0.013	1.137

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.

2. MAX. ΣSAR_{1g} = CDMA SAR_{MAX}+LTE SAR_{MAX}+BT SAR_{MAX}

hotspot opened, LTE (Full Power)/CDMA (Power=14.5 dBm)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	BT	MAX. Σ SAR _{1g}
Body, Back Side	1.317	1.286	0.068	0.063	0.040	0.031	1.416
Body, Front Side	0.771	0.720	0.051	0.046	0.037	0.013	0.835
Body, Left Edge	NA	NA	0.046	0.015	0.013	NA	NA
Body, Right Edge	0.619	0.555	0.030	0.006	0.003	0.012	0.661
Body, Top Edge	NA	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.161	0.166	0.017	0.062	0.036	NA	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.

2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+LTE SAR_{MAX} +BT SAR_{MAX}

Hotspot opened, CDMA (Full Power)/LTE (Power=20 dBm)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	BT	MAX. Σ SAR _{1g}
Body, Back Side	0.826	0.766	1.074	0.997	1.096	0.031	1.953
Body, Front Side	0.626	0.568	0.675	0.744	0.830	0.013	1.469
Body, Left Edge	NA	NA	0.664	0.305	0.383	NA	NA
Body, Right Edge	0.489	0.392	0.417	0.074	0.070	0.012	0.918
Body, Top Edge	NA	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.141	0.124	0.174	1.400	0.869	NA	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.

2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+LTE SAR_{MAX}+BT SAR_{MAX}

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SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	BT	MAX. Σ SAR _{1g}
Body, Back Side	0.826	/	1.074	/	/	0.031	1.931
	0.826	/	/	0.997	/	0.031	1.854
	0.826	/	/	/	1.096	0.031	1.953
	/	0.766	1.074	/	/	0.031	1.871
	/	0.766	/	0.997	/	0.031	1.794
	/	0.766	/	/	1.096	0.031	1.893

Note: 1.The value with red color is the SAR_{1g} >1.6 W/kg.

(LTE Antenna SAR_{MAX}) 0.826 W/kg + (CDMA antenna SAR_{MAX}) 1.074 W/kg + (BT antenna SAR_{MAX}) 0.031 W/kg =1.931 W/kg >1.6 W/kg, so the Simultaneous SAR are required for CDMA, LTE and BT antenna.

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SVLTE & WiFi Mode

hotspot Closed, CDMA (Full Power)/LTE (Full Power)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	MAX. Σ SAR _{1g}
Left hand, Touch cheek	0.469	0.356	0.664	0.652	0.759	0.132	1.36
Left hand, Tilt 15 Degree	0.420	0.346	0.352	0.226	0.343	0.062	0.834
Right hand, Touch cheek	0.928	0.866	0.490	0.303	0.428	0.173	1.591
Right hand, Tilt 15 Degree	0.360	0.301	0.327	0.199	0.327	0.065	0.752
Body, Back Side	0.740	0.765	0.688	0.583	0.658	0.178	1.631
Body, Front Side	0.523	0.445	0.601	0.442	0.587	0.060	1.184

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} = CDMA SAR_{MAX}+LTE SAR_{MAX}+ WIFI SAR_{MAX}

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	MAX. Σ SAR _{1g}
Body, Back Side	0.740	/	0.688	/	/	0.178	1.606
	0.740	/	/	0.583	/	0.178	1.501
	0.740	/	/	/	0.658	0.178	1.576
	/	0.765	0.688	/	/	0.178	1.631
	/	0.765	/	0.583	/	0.178	1.526
	/	0.765	/	/	0.658	0.178	1.601

Note: 1.The value with red color is the SAR_{1g} >1.6 W/kg.

(LTE Antenna SAR_{MAX}) 0.765 W/kg + (CDMA antenna SAR_{MAX}) 0.688 W/kg + (WIFI antenna SAR_{MAX}) 0.178 W/kg =1.631 W/kg >1.6 W/kg, so the Simultaneous SAR are required for CDMA, LTE and wifi antenna.

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SVLTE & WiFi Mode & BT Mode

hotspot Closed, CDMA (Full Power)/LTE (Full Power)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	BT	MAX. Σ SAR _{1g}
Left hand, Touch cheek	0.469	0.356	0.664	0.652	0.759	0.132	0.001	1.361
Left hand, Tilt 15 Degree	0.420	0.346	0.352	0.226	0.343	0.062	0.000	0.834
Right hand, Touch cheek	0.928	0.866	0.490	0.303	0.428	0.173	0.002	1.593
Right hand, Tilt 15 Degree	0.360	0.301	0.327	0.199	0.327	0.065	0.003	0.755
Body, Back Side	0.740	0.765	0.688	0.583	0.658	0.178	0.031	1.662
Body, Front Side	0.523	0.445	0.601	0.442	0.587	0.060	0.013	1.197

Note: 1. The value with blue color is the maximum ΣSAR_{1g} Value.
 2. MAX. ΣSAR_{1g} = CDMA SAR_{MAX}+LTE SAR_{MAX}+ WIFI SAR_{MAX}+BT SAR_{MAX}

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	BT	MAX. Σ SAR _{1g}
Body, Back Side	0.740	/	0.688	/	/	0.178	0.031	1.637
	0.740	/	/	0.583	/	0.178	0.031	1.532
	0.740	/	/	/	0.658	0.178	0.031	1.607
	/	0.765	0.688	/	/	0.178	0.031	1.662
	/	0.765	/	0.583	/	0.178	0.031	1.557
	/	0.765	/	/	0.658	0.178	0.031	1.632

Note: 1. The value with red color is the SAR_{1g} > 1.6 W/kg.

(LTE Antenna SAR_{MAX}) 0.765 W/kg + (CDMA antenna SAR_{MAX}) 0.688 W/kg + (WIFI antenna SAR_{MAX}) 0.178 W/kg + (BT antenna SAR_{MAX}) 0.031 W/kg = 1.662 W/kg > 1.6 W/kg, so the Simultaneous SAR are required for CDMA, LTE, BT and wifi antenna.

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SVLTE & WiFi Hotspot Mode

hotspot opened, LTE (Full Power)/CDMA (Power=14.5 dBm)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	MAX. Σ SAR _{1g}
Body, Back Side	1.317	1.286	0.068	0.063	0.040	0.178	1.563
Body, Front Side	0.771	0.720	0.051	0.046	0.037	0.060	0.882
Body, Left Edge	NA	NA	0.046	0.015	0.013	NA	NA
Body, Right Edge	0.619	0.555	0.030	0.006	0.003	0.104	0.753
Body, Top Edge	NA	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.161	0.166	0.017	0.062	0.036	NA	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+LTE SAR_{MAX}+ WIFI SAR_{MAX}

Hotspot opened, CDMA (Full Power)/LTE (Power=20 dBm)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	MAX. Σ SAR _{1g}
Body, Back Side	0.826	0.766	1.074	0.997	1.096	0.178	2.100
Body, Front Side	0.626	0.568	0.675	0.744	0.830	0.060	1.516
Body, Left Edge	NA	NA	0.664	0.305	0.383	NA	NA
Body, Right Edge	0.489	0.392	0.417	0.074	0.070	0.104	1.010
Body, Top Edge	NA	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.141	0.124	0.174	1.400	0.869	NA	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+LTE SAR_{MAX}+ WIFI SAR_{MAX}

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	MAX. Σ SAR _{1g}
Body, Back Side	0.826	/	1.074	/	/	0.178	2.078
	0.826	/	/	0.997	/	0.178	2.001
	0.826	/	/	/	1.096	0.178	2.100
	/	0.766	1.074	/	/	0.178	2.018
	/	0.766	/	0.997	/	0.178	1.941
	/	0.766	/	/	1.096	0.178	2.040

Note: 1.The value with red color is the SAR_{1g} >1.6 W/kg.

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SVLTE & WiFi Hotspot Mode & BT Mode

hotspot opened, LTE (Full Power)/CDMA (Power=14.5 dBm)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	BT	MAX. Σ SAR _{1g}
Body, Back Side	1.317	1.286	0.068	0.063	0.040	0.178	0.031	1.594
Body, Front Side	0.771	0.720	0.051	0.046	0.037	0.060	0.013	0.895
Body, Left Edge	NA	NA	0.046	0.015	0.013	NA	NA	NA
Body, Right Edge	0.619	0.555	0.030	0.006	0.003	0.104	0.012	0.765
Body, Top Edge	NA	NA	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.161	0.166	0.017	0.062	0.036	NA	NA	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+LTE SAR_{MAX}+ WIFI SAR_{MAX}+BT SAR_{MAX}

Hotspot opened, CDMA (Full Power)/LTE (Power=20 dBm)

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	BT	MAX. Σ SAR _{1g}
Body, Back Side	0.826	0.766	1.074	0.997	1.096	0.178	0.031	2.131
Body, Front Side	0.626	0.568	0.675	0.744	0.830	0.060	0.013	1.529
Body, Left Edge	NA	NA	0.664	0.305	0.383	NA	NA	NA
Body, Right Edge	0.489	0.392	0.417	0.074	0.070	0.104	0.012	1.022
Body, Top Edge	NA	NA	NA	NA	NA	NA	NA	NA
Body, Bottom Edge	0.141	0.124	0.174	1.400	0.869	NA	NA	NA

Note: 1.The value with blue color is the maximum ΣSAR_{1g} Value.
2. MAX. ΣSAR_{1g} =CDMA SAR_{MAX}+LTE SAR_{MAX}+ WIFI SAR_{MAX}+BT SAR_{MAX}

SAR _{1g} (W/kg) Test Position	LTE B2	LTE B4	CDMA Cellular	CDMA PCS	CDMA AWS	WIFI	BT	MAX. Σ SAR _{1g}
Body, Back Side	0.826	/	1.074	/	/	0.178	0.031	2.109
	0.826	/	/	0.997	/	0.178	0.031	2.032
	0.826	/	/	/	1.096	0.178	0.031	2.131
	/	0.766	1.074	/	/	0.178	0.031	2.049
	/	0.766	/	0.997	/	0.178	0.031	1.972
	/	0.766	/	/	1.096	0.178	0.031	2.071

Note: 1.The value with red color is the SAR_{1g} >1.6 W/kg.

(LTE Antenna SAR_{MAX})0.826 W/kg + (CDMA antenna SAR_{MAX})1.096 W/kg + (WIFI antenna SAR_{MAX})0.178 W/kg =2.131 W/kg >1.6 W/kg, So the Simultaneous SAR are required for CDMA and LTE antenna.

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LTE Band 4 & CDMA Cellular & WIFI & BT Multi Band (Combined) Results

Test Position	Multi Band	Channel	Frequency (MHz)	Zoom scan	Test Results (mW/g)	
					Volume scan	Combined
Body, Back Side	LTE Band 4	20175	1732.5	0.727	0.667	1.07
	CDMA Cellular	384	836.52	0.564	0.529	
	WIFI	11	2462	0.157	0.171	
	BT	78	2480	0.028	0.058	

LTE Band 2 & CDMA AWS & WIFI & BT Multi Band (Combined) Results

Test Position	Multi Band	Channel	Frequency (MHz)	Zoom scan	Test Results (mW/g)	
					Volume scan	Combined
Body, Back Side	LTE Band 2	18900	1880	0.644	0.609	1.2
	CDMA AWS	450	1732.5	0.762	0.679	
	WIFI	11	2462	0.157	0.171	
	BT	78	2480	0.028	0.058	

LTE Band 2 & CDMA AWS Multi Band (Combined) Results

Test Position	Multi Band	Channel	Frequency (MHz)	Zoom scan	Test Results (mW/g)	
					Volume scan	Combined
Body, Back Side	LTE Band 2	18900	1880	0.644	0.609	1.17
	CDMA AWS	450	1732.5	0.762	0.679	

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8. 700MHz to 3GHz Measurement Uncertainty

No.	source	Type	Uncertainty Value (%)	Probability Distribution	k	c _i	Standard uncertainty u _i (%)	Degree of freedom V _{eff} or V _i
1	System repetivity	A	0.5	N	1	1	0.5	9
Measurement system								
2	-probe calibration	B	6.0	N	1	1	6.0	∞
3	-axial isotropy of the probe	B	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	1.9	∞
4	- Hemispherical isotropy of the probe	B	9.4	R	$\sqrt{3}$	$\sqrt{0.5}$	3.9	∞
6	-boundary effect	B	1.9	R	$\sqrt{3}$	1	1.1	∞
7	-probe linearity	B	4.7	R	$\sqrt{3}$	1	2.7	∞
8	- System detection limits	B	1.0	R	$\sqrt{3}$	1	0.6	∞
9	-readout Electronics	B	1.0	N	1	1	1.0	∞
10	-response time	B	0	R	$\sqrt{3}$	1	0	∞
11	-integration time	B	4.32	R	$\sqrt{3}$	1	2.5	∞
12	-noise	B	0	R	$\sqrt{3}$	1	0	∞
13	-RF Ambient Conditions	B	3	R	$\sqrt{3}$	1	1.73	∞
14	-Probe Positioner Mechanical Tolerance	B	0.4	R	$\sqrt{3}$	1	0.2	∞
15	-Probe Positioning with respect to Phantom Shell	B	2.9	R	$\sqrt{3}$	1	1.7	∞
16	-Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	B	3.9	R	$\sqrt{3}$	1	2.3	∞
Test sample Related								
17	-Test Sample Positioning	A	2.9	N	1	1	2.9	71
18	-Device Holder Uncertainty	A	4.1	N	1	1	4.1	5
19	-Output Power Variation - SAR drift measurement	B	5.0	R	$\sqrt{3}$	1	2.9	∞
Physical parameter								
20	-phantom	B	4.0	R	$\sqrt{3}$	1	2.3	∞

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21	-liquid conductivity (deviation from target)	B	5.0	R	$\sqrt{3}$	0.64	1.8	∞
22	-liquid conductivity (measurement uncertainty)	B	2.5	N	1	0.64	1.6	9
23	-liquid permittivity (deviation from target)	B	5.0	R	$\sqrt{3}$	0.6	1.7	∞
24	-liquid permittivity (measurement uncertainty)	B	2.5	N	1	0.6	1.5	9
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{24} c_i^2 u_i^2}$					11.50	
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$		N	k=2	23.00		

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9. Main Test Instruments

Table 28: List of Main Instruments

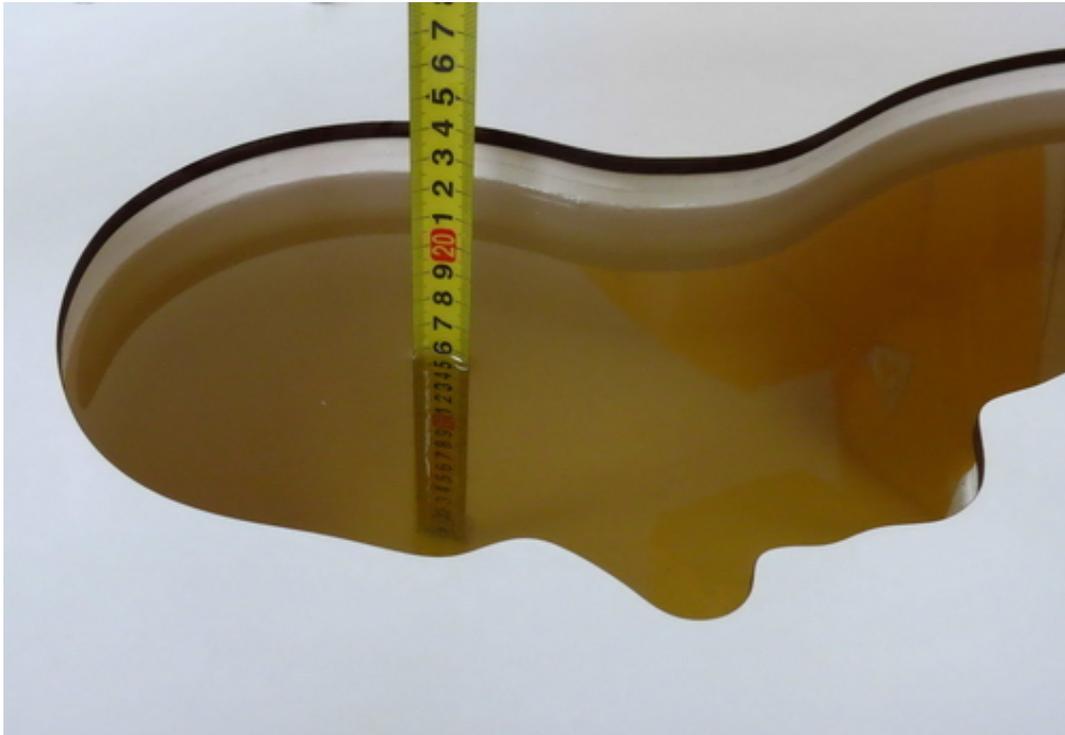
No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	Agilent 8753E	US37390326	September 11, 2012	One year
02	Dielectric Probe Kit	Agilent 85070E	US44020115	No Calibration Requested	
03	Power meter	Agilent E4417A	GB41291714	March 11, 2012	One year
04	Power meter	Agilent E4417A	GB41291714	March 10, 2013	One year
05	Power sensor	Agilent N8481H	MY50350004	September 24, 2012	One year
06	Power sensor	E9327A	US40441622	September 23, 2012	One year
07	Signal Generator	HP 8341B	2730A00804	September 11, 2012	One year
08	Dual directional coupler	778D-012	50519	March 26, 2012	One year
09	Dual directional coupler	778D-012	50519	March 25, 2013	One year
10	Dual directional coupler	777D	50146	March 26, 2012	One year
11	Amplifier	IXA-020	0401	No Calibration Requested	
12	BTS	E5515C	MY48360988	December 2, 2011	One year
11	BTS	E5515C	MY48360988	December 1, 2012	One year
12	BTS	CMU500	113645	August 29, 2012	One year
13	E-field Probe	ES3DV3	3189	June 22, 2012	One year
14	E-field Probe	EX3DV4	3753	January 17, 2013	One year
15	DAE	DAE4	1317	January 23, 2012	One year
16	DAE	DAE4	1317	January 25, 2013	One year
17	Validation Kit 835MHz	D835V2	4d020	August 26, 2011	Three years
18	Validation Kit 1750MHz	D1750V2	1033	May 17, 2010	Three years
19	Validation Kit 1750MHz	D1750V2	1023	June 20, 2012	Three years
20	Validation Kit 1900MHz	D1900V2	5d060	August 31, 2011	Three years
21	Validation Kit 2450MHz	D2450V2	786	August 29, 2011	Three years
22	Temperature Probe	JM222	AA1009129	March 15, 2012	One year
23	Hygrothermograph	WS-1	64591	September 27, 2012	One year

*****END OF REPORT BODY*****

ANNEX A: Test Layout



Picture 1: Specific Absorption Rate Test Layout



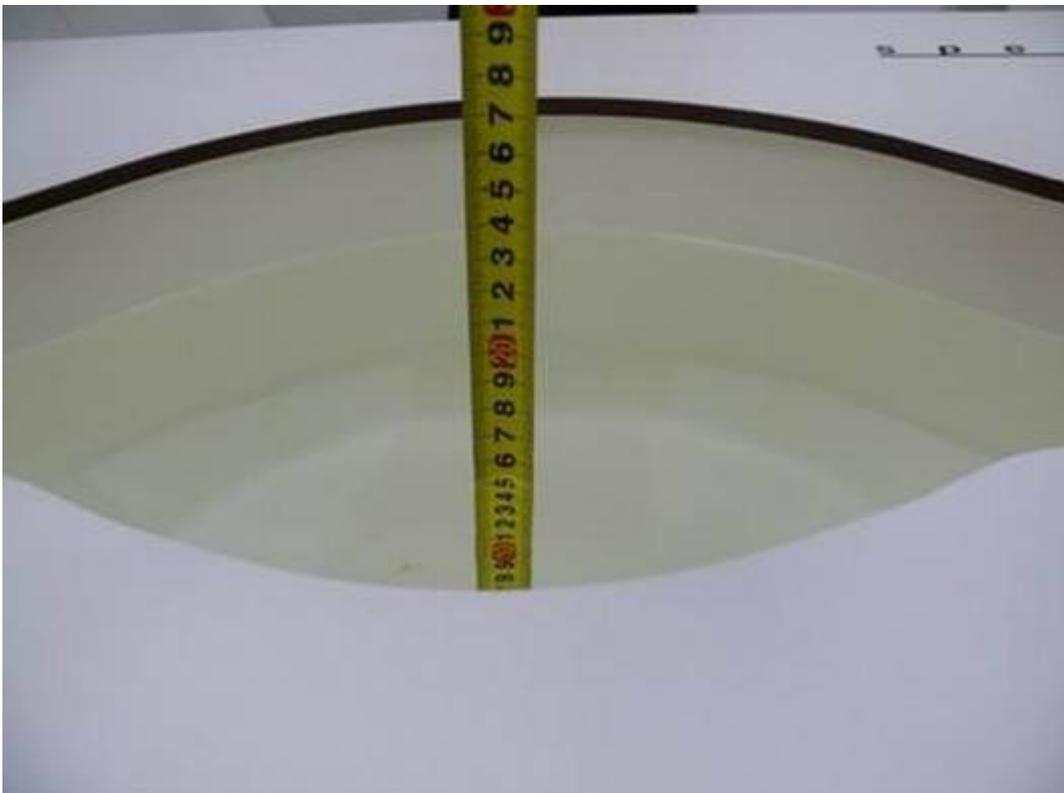
Picture 2: Liquid depth in the head Phantom (835MHz, 15.3cm depth)



Picture 3: Liquid depth in the Flat Phantom (835 MHz, 15.4cm depth)



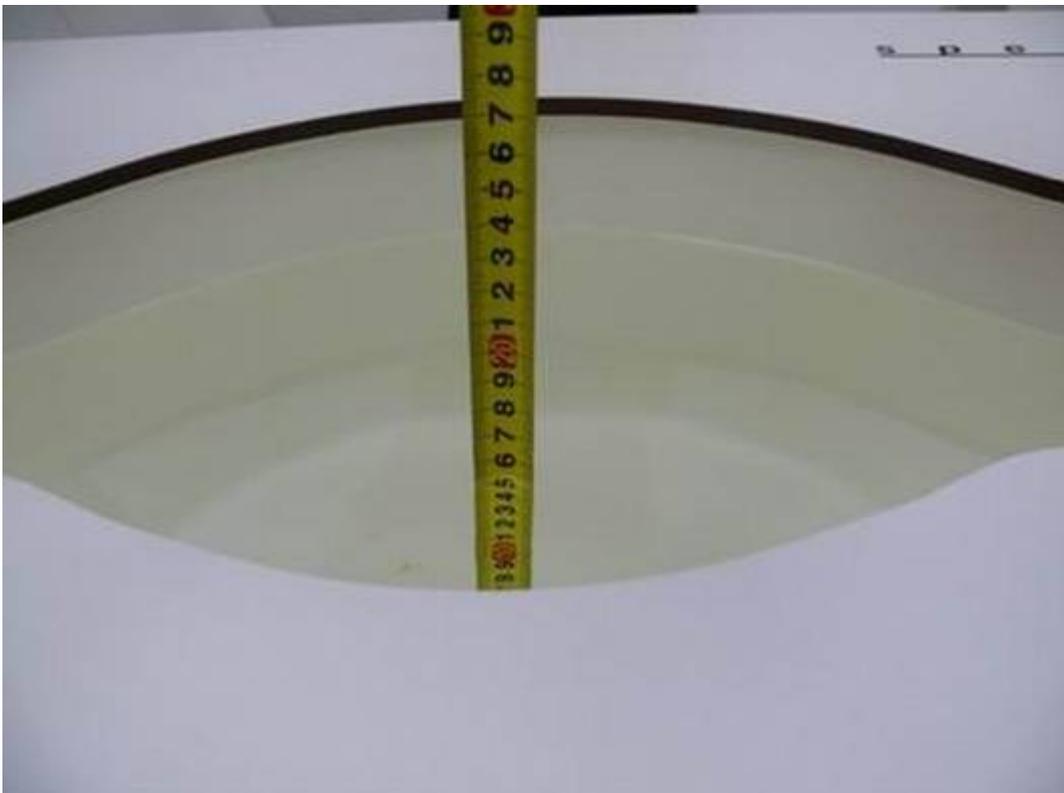
Picture 4: liquid depth in the head Phantom (1750 MHz, 15.2cm depth)



Picture 5: Liquid depth in the Flat Phantom (1750 MHz, 15.3cm depth)



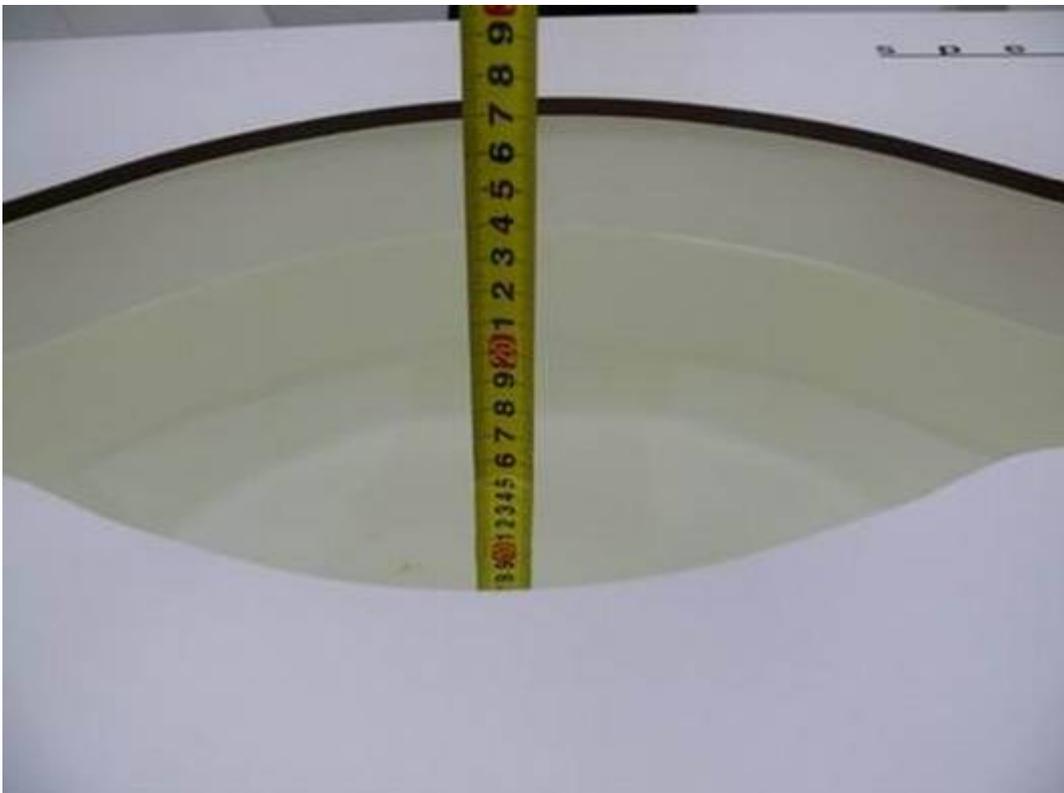
Picture 6: liquid depth in the head Phantom (1900 MHz, 15.2cm depth)



Picture 7: Liquid depth in the Flat Phantom (1900 MHz, 15.3cm depth)



Picture 8: liquid depth in the head Phantom (2450 MHz, 15.2cm depth)



Picture 9 : Liquid depth in the Flat Phantom (2450 MHz, 15.3cm depth)

ANNEX B: System Check Results (Original M931)

System Performance Check at 835 MHz Head TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d020

Date/Time: 9/21/2012 1:20:38 PM

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 41.81$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=15mm, Pin=250mW/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 54.4 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.44 mW/g; SAR(10 g) = 1.6 mW/g

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

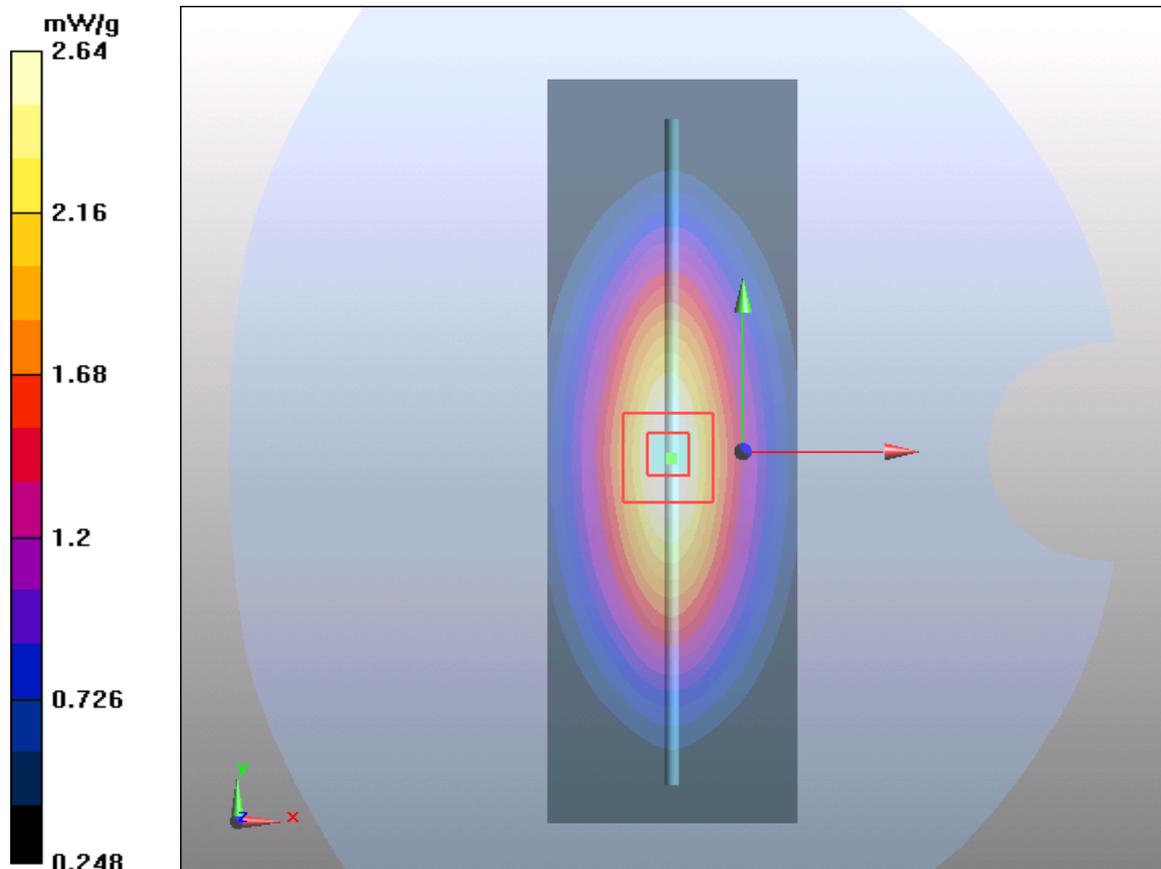


Figure 9 System Performance Check 835MHz 250mW

System Performance Check at 835 MHz Body TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d020

Date/Time: 9/29/2012 10:8:07 AM

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 54.54$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=15mm, Pin=250mW/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.58 mW/g

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

Reference Value = 51.9 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 3.5 W/kg

SAR(1 g) = 2.41 mW/g; SAR(10 g) = 1.6 mW/g

Maximum value of SAR (measured) = 2.6 mW/g

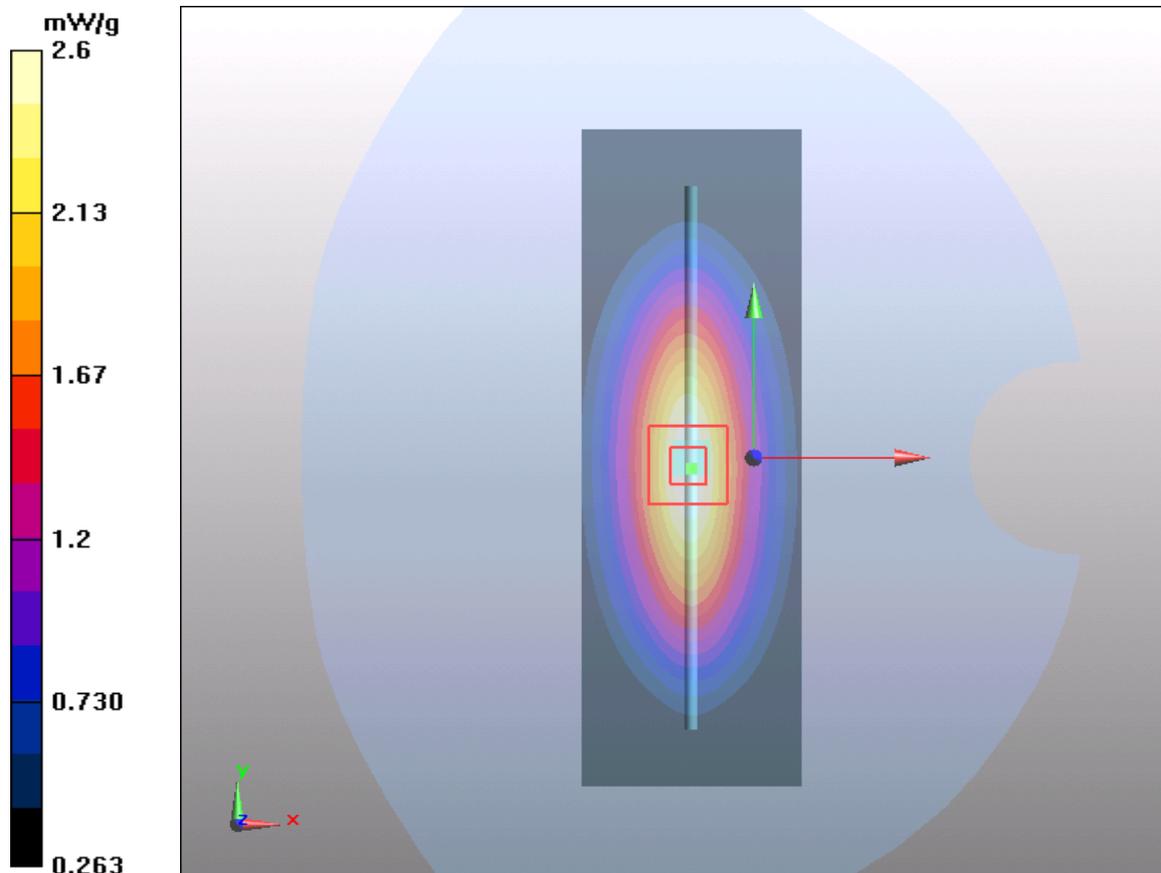


Figure 10 System Performance Check 835MHz 250Mw

System Performance Check at 835 MHz Body TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d020

Date/Time: 11/28/2012 6:8:07 PM

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.59$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=15mm, Pin=250mW/Area Scan (41x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 2.58 mW/g

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

Reference Value = 51.8V/m ; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 3.5 W/kg

SAR(1 g) = 2.4 mW/g ; SAR(10 g) = 1.62 mW/g

Maximum value of SAR (measured) = 2.6 mW/g

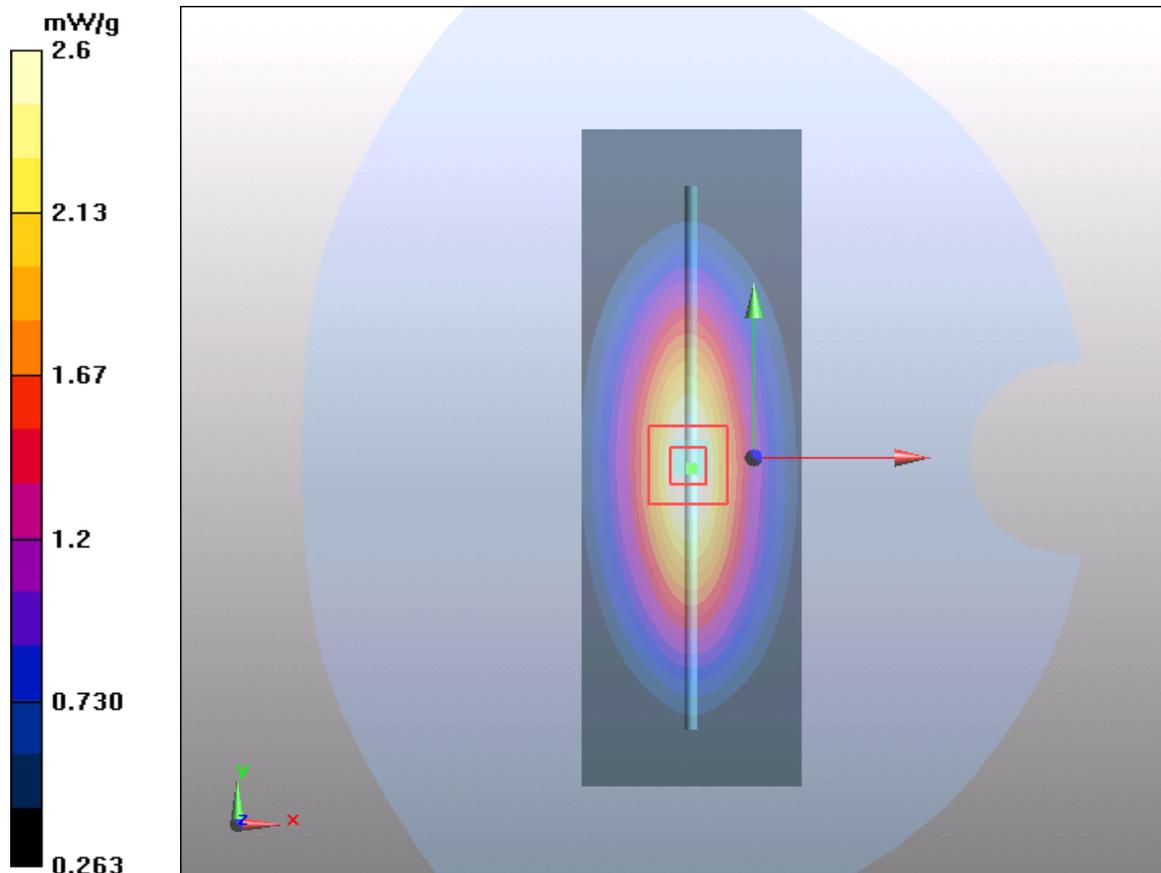


Figure 11 System Performance Check 835MHz 250mW

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System Performance Check at 1750 MHz Head TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1033

Date/Time: 10/13/2012 12:46:33 PM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.17$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=10mm, Pin=250mW/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 9.89 mW/g

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

Reference Value = 81.1 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 8.61 mW/g; SAR(10 g) = 4.57 mW/g

Maximum value of SAR (measured) = 9.63 mW/g

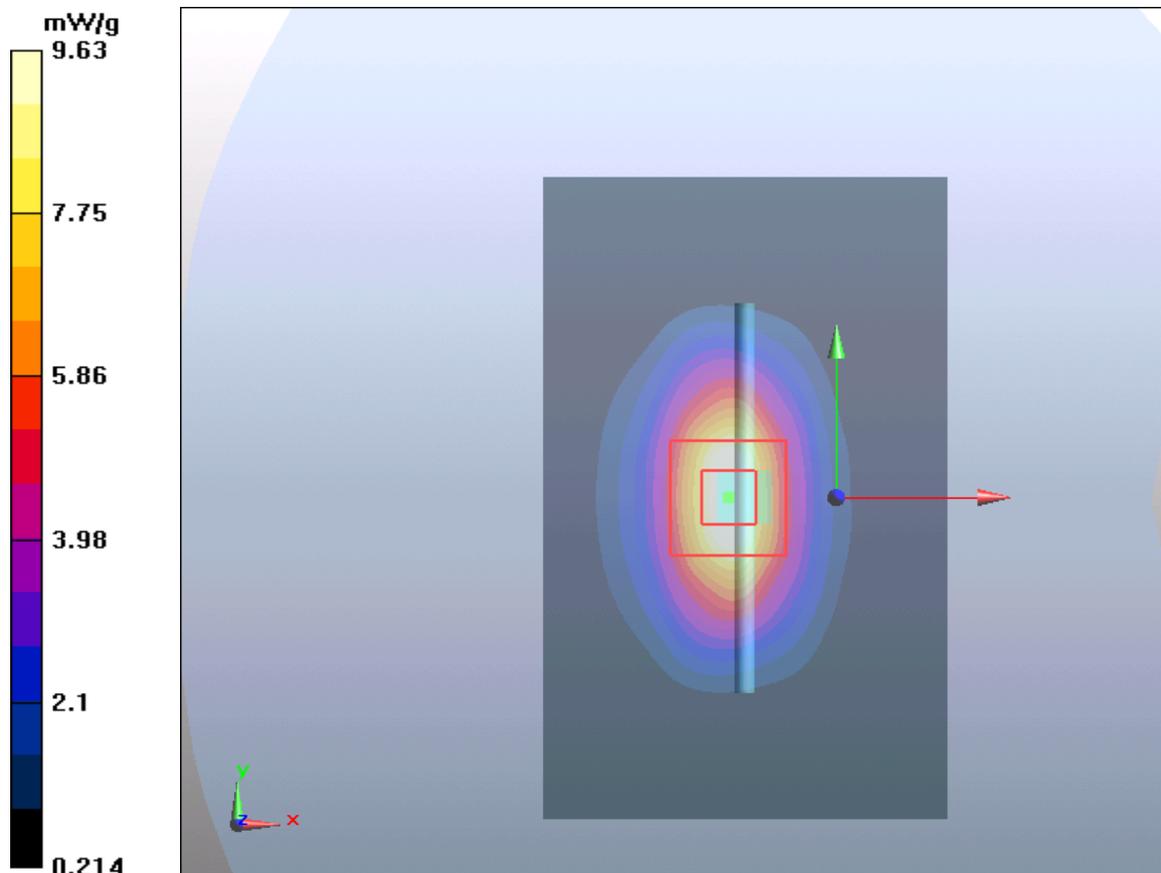


Figure 12 System Performance Check 1750MHz 250mW

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System Performance Check at 1750 MHz Body TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1033

Date/Time: 10/12/2012 6:52:45 AM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.65$ $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=10mm, Pin=250mW/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10 mW/g

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

Reference Value = 74.8 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 8.73 mW/g; SAR(10 g) = 4.69 mW/g

Maximum value of SAR (measured) = 9.86 mW/g

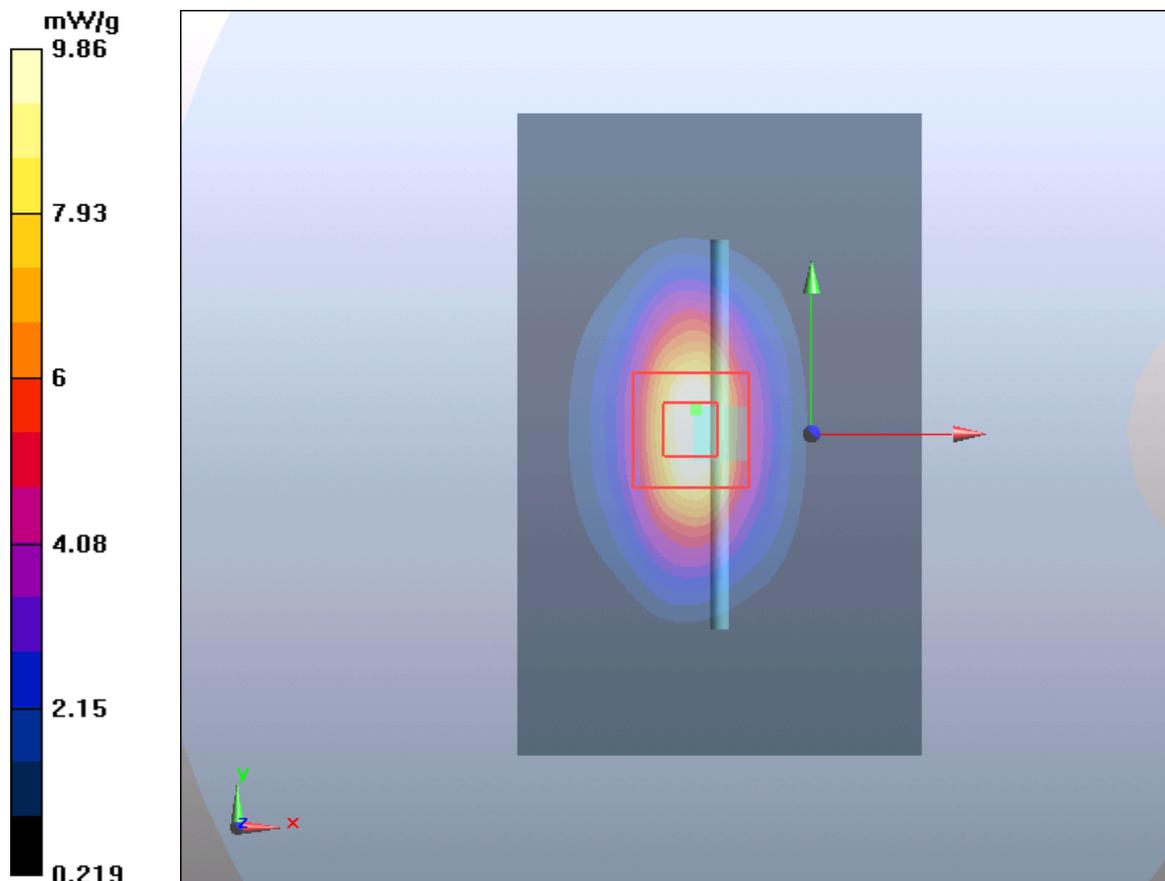


Figure 13 System Performance Check 1750MHz 250mW

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System Performance Check at 1750 MHz Body TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1033

Date/Time: 11/26/2012 6:55:45 AM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.62$ $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=10mm, Pin=250mW/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10 mW/g

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

Reference Value = 74.7 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 8.71 mW/g; SAR(10 g) = 4.67 mW/g

Maximum value of SAR (measured) = 9.86 mW/g

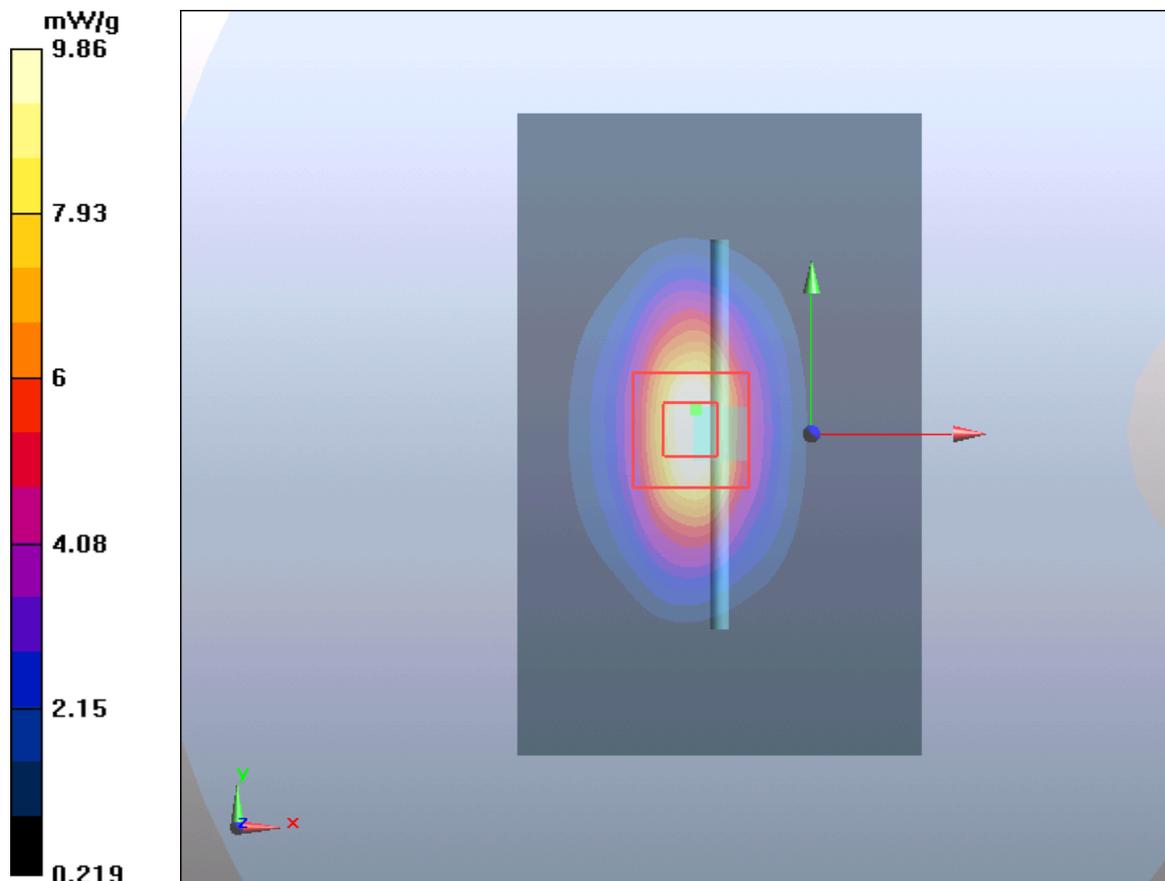


Figure 14 System Performance Check 1750MHz 250mW

System Performance Check at 1900 MHz Head TSL

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d060

Date/Time: 10/9/2012 8:50:55 AM

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.82$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=10mm, Pin=250mW/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.3 mW/g

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

Reference Value = 85.5 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.48 mW/g; SAR(10 g) = 4.9 mW/g

Maximum value of SAR (measured) = 10.7 mW/g

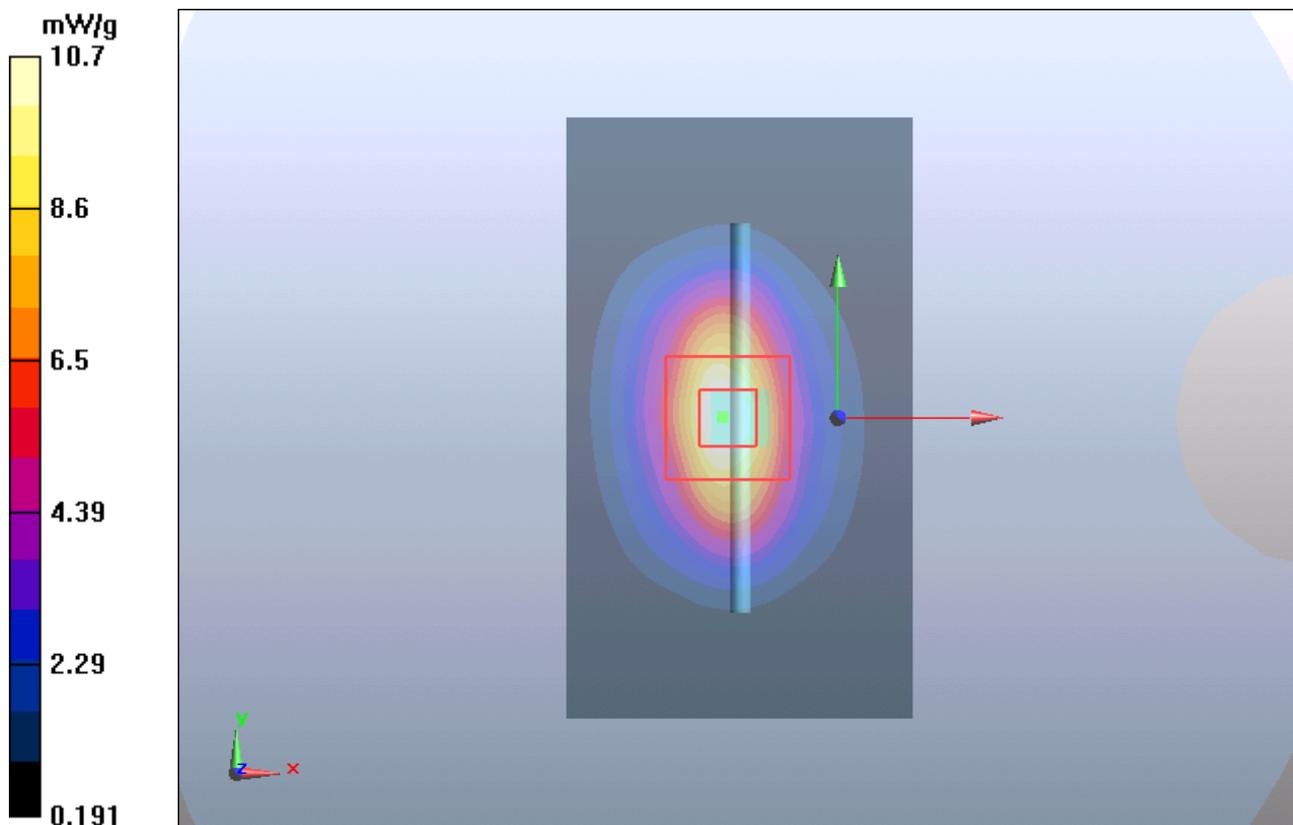


Figure 15 System Performance Check 1900MHz 250mW

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System Performance Check at 1900 MHz Body TSL

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d060

Date/Time: 10/11/2012 7:05:25 AM

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53.12$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=10mm, Pin=250mW/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.2 mW/g

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

Reference Value = 82.3 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.93 mW/g; SAR(10 g) = 5.25 mW/g

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

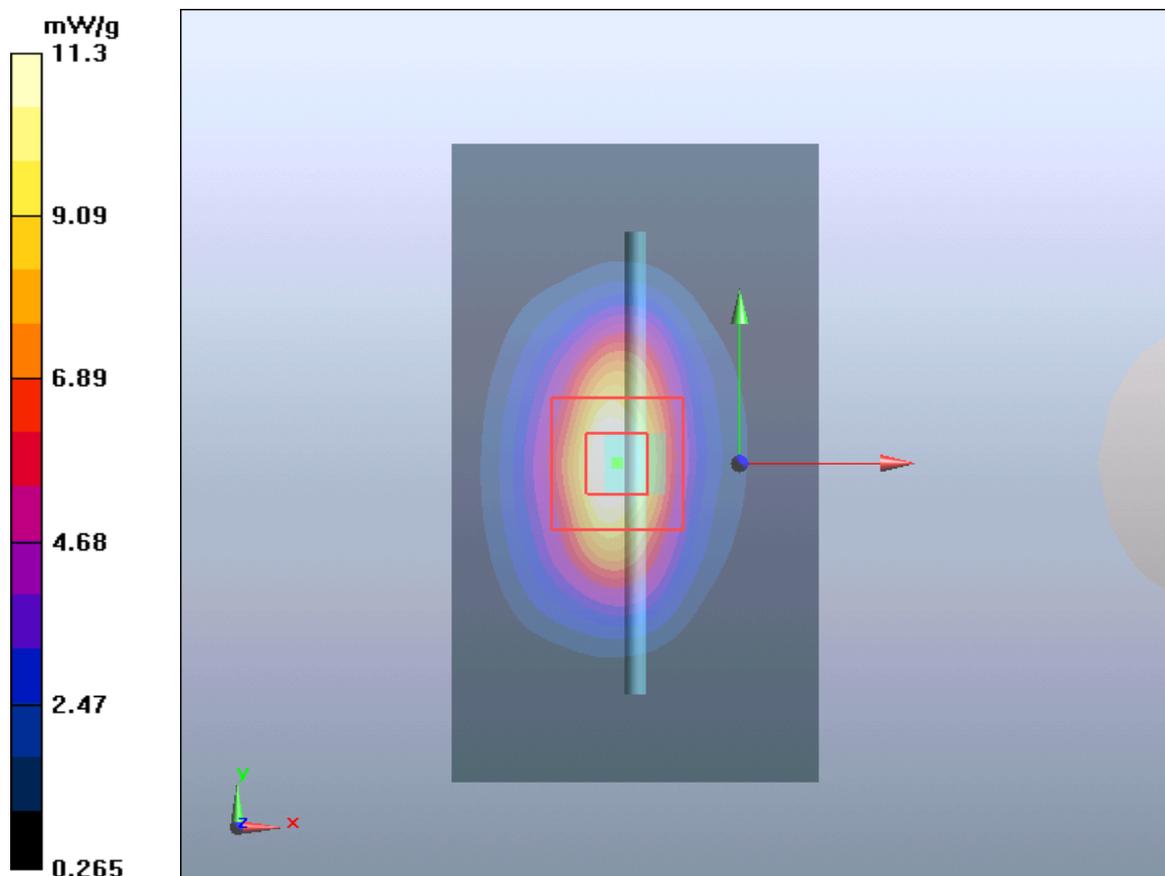


Figure 16 System Performance Check 1900MHz 250mW

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System Performance Check at 1900 MHz Body TSL

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d060

Date/Time: 10/11/2012 7:05:25 AM

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.10$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=10mm, Pin=250mW/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.2 mW/g

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

Reference Value = 82.3 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.92 mW/g; SAR(10 g) = 5.24 mW/g

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

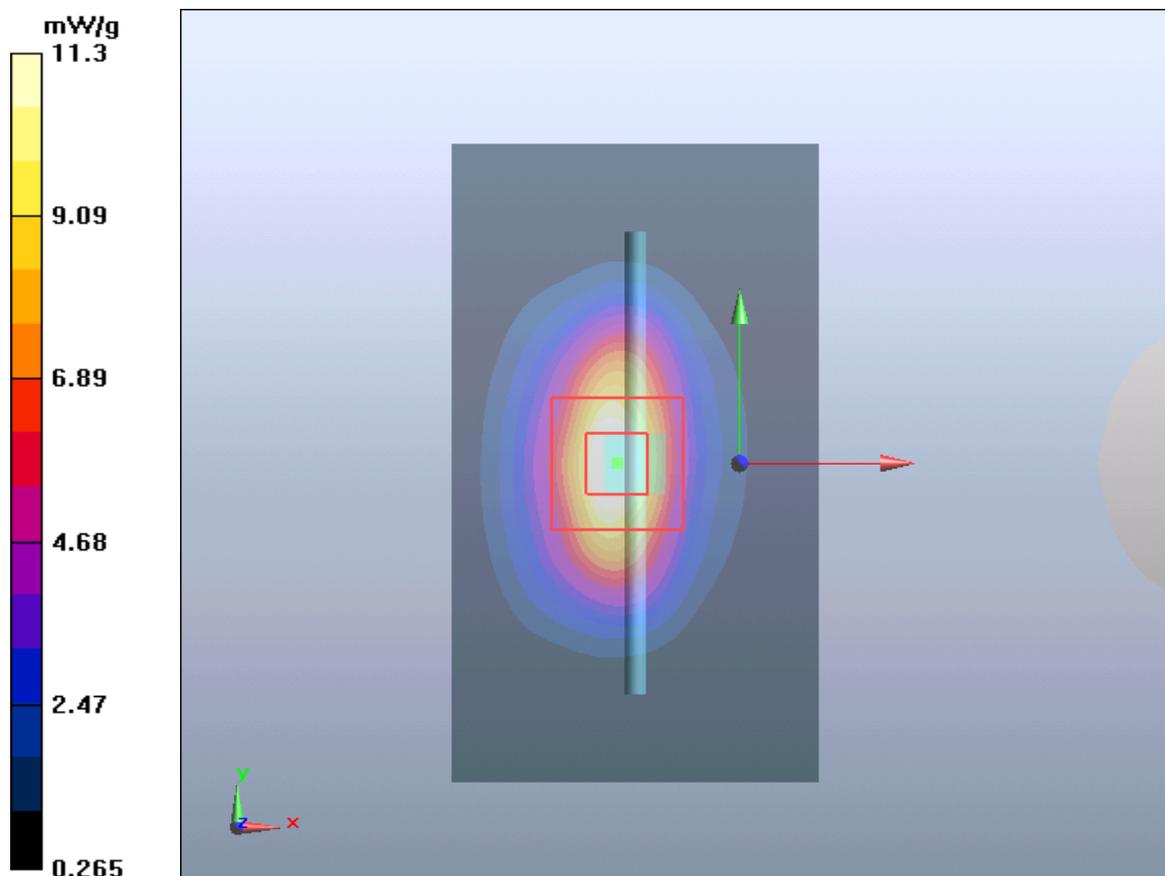


Figure 17 System Performance Check 1900MHz 250mW

System Performance Check at 2450 MHz Head TSL

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 786

Date/Time: 10/8/2012 4:00:12 PM

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.32$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.14, 4.14, 4.14); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=10mm, Pin=250mW/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 18.2 mW/g

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

Reference Value = 88.8 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 30 W/kg

SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.22 mW/g

Maximum value of SAR (measured) = 15.9 mW/g

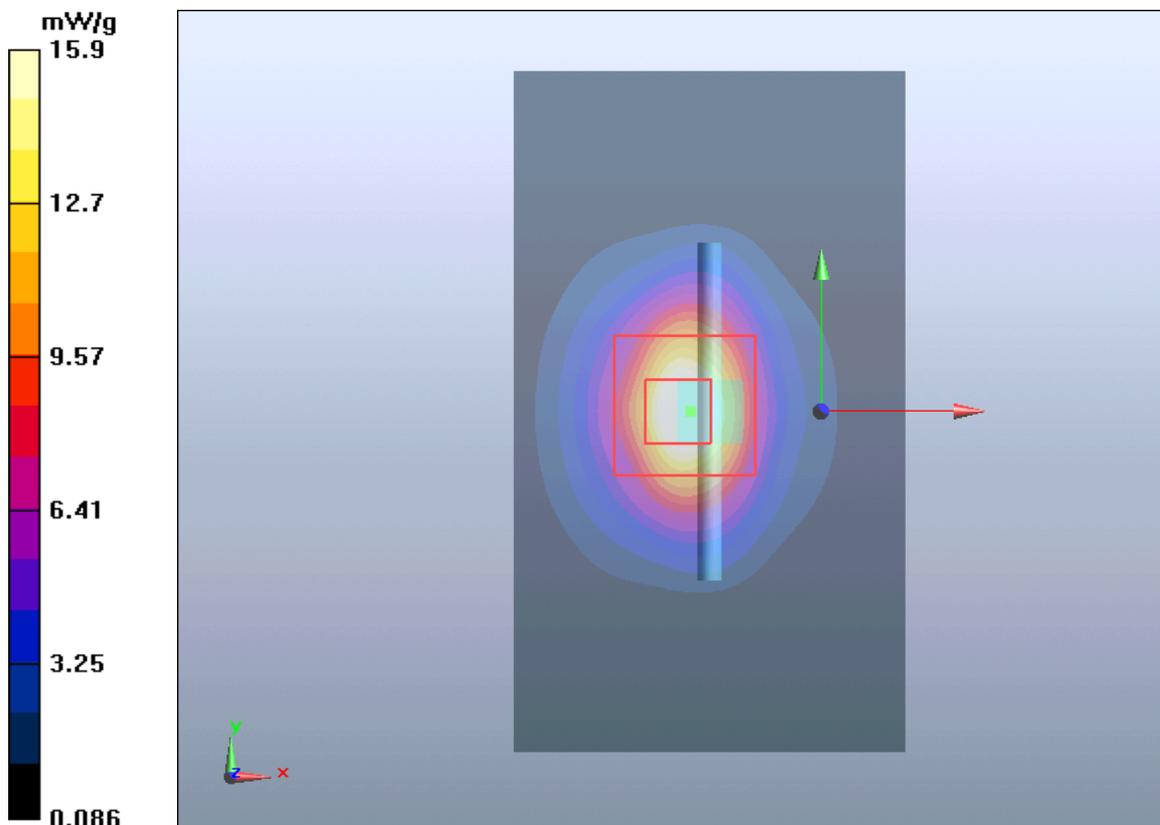


Figure 18 System Performance Check 2450MHz 250mW

System Performance Check at 2450 MHz Body TSL

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 786

Date/Time: 10/8/2012 2:33:59 PM

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.9$ mho/m; $\epsilon_r = 50.69$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(3.96, 3.96, 3.96); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

d=10mm, Pin=250mW/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 16 mW/g

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

Reference Value = 81.2 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 25.4 W/kg

SAR(1 g) = 12.9 mW/g; SAR(10 g) = 6.13 mW/g

Maximum value of SAR (measured) = 14.9 mW/g

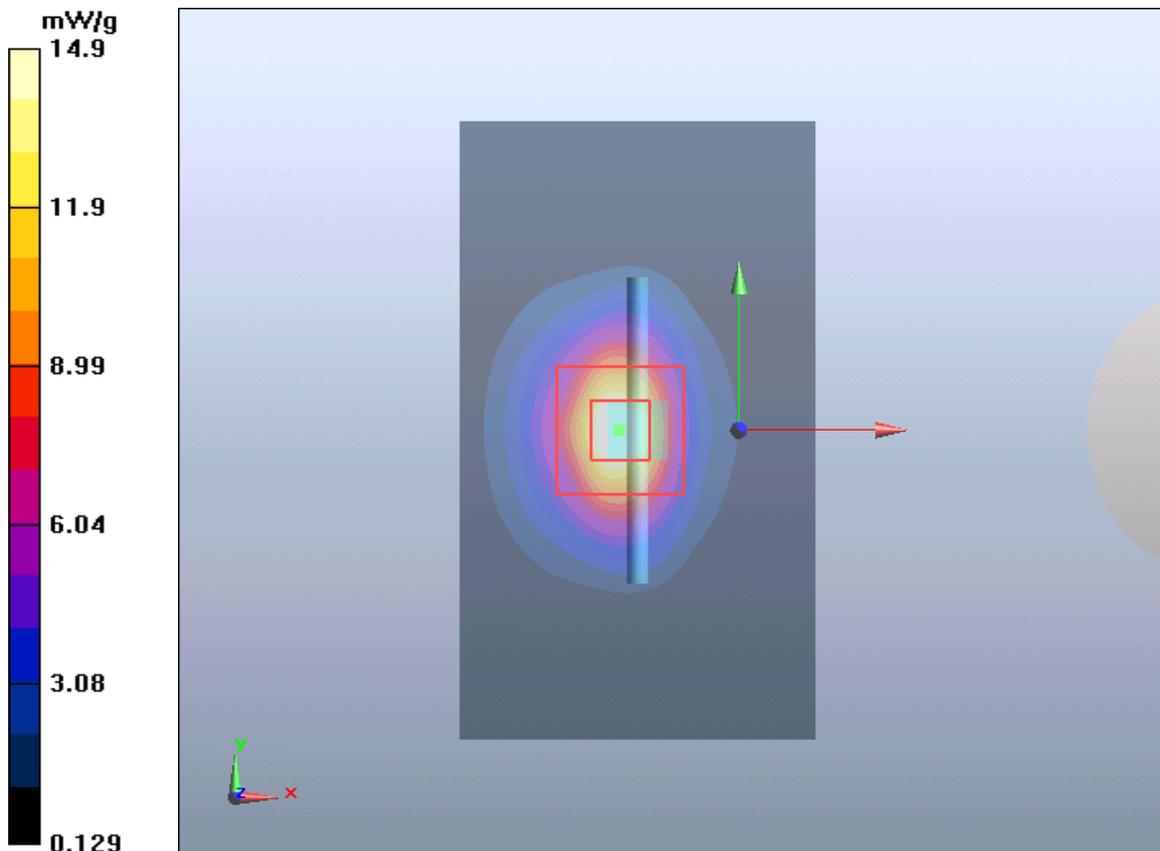


Figure 19 System Performance Check 2450MHz 250mW

ANNEX C: Graph Results(Original M931)

CDMA Cellular Left Cheek Middle (SN: UWDC320XBGN01407)

Date/Time: 9/21/2012 3:21:22 PM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.896$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 8.69 V/m; Power Drift = 0.00299 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.313 mW/g

Maximum value of SAR (measured) = 0.429 mW/g

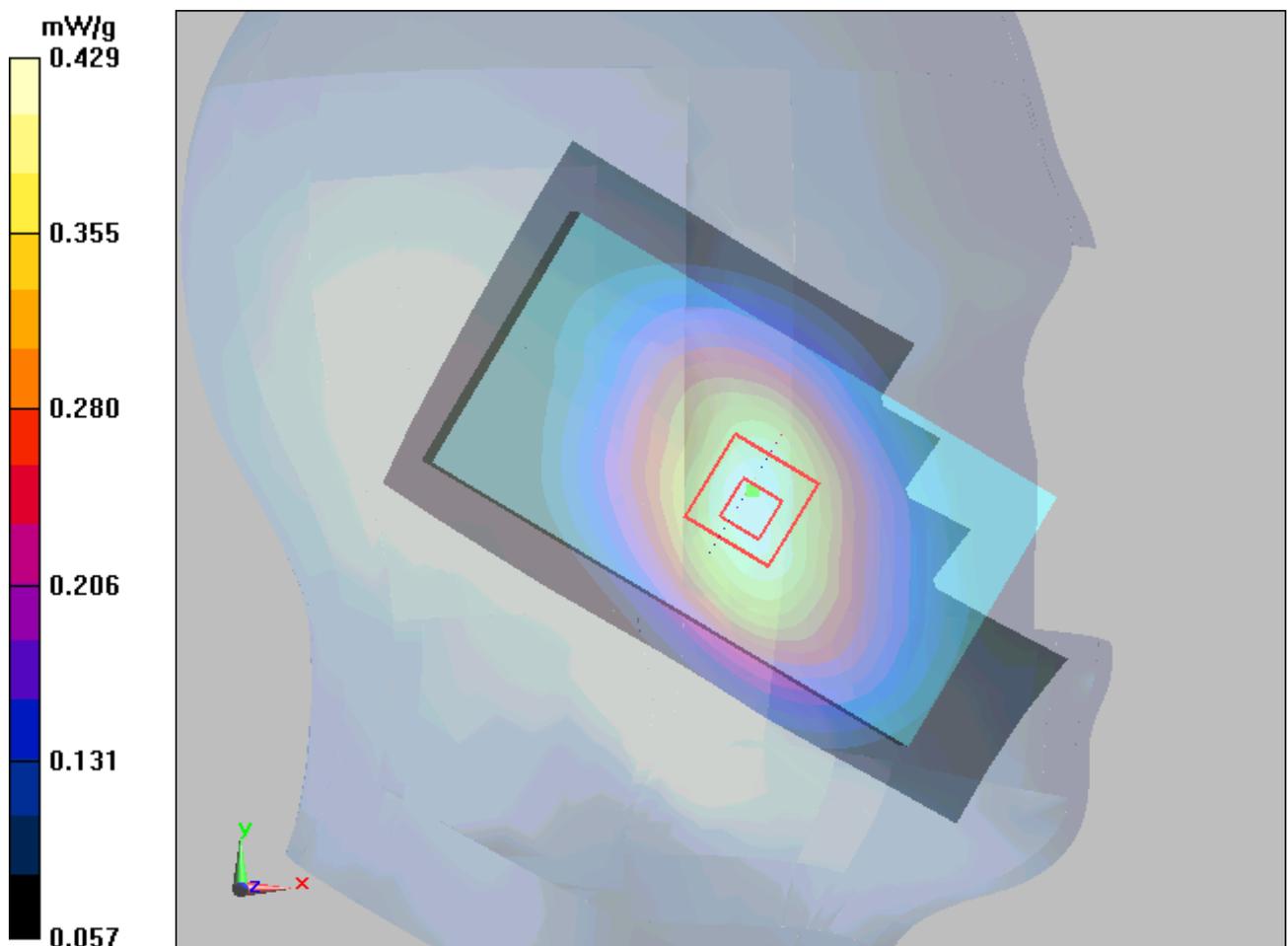


Figure 20 CDMA Cellular Left Hand Touch Cheek Channel 384

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CDMA Cellular Left Tilt Middle (SN: UWDC320XBGN01407)

Date/Time: 9/21/2012 3:38:41 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.896$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.285 mW/g

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

Reference Value = 13.5 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.292 mW/g

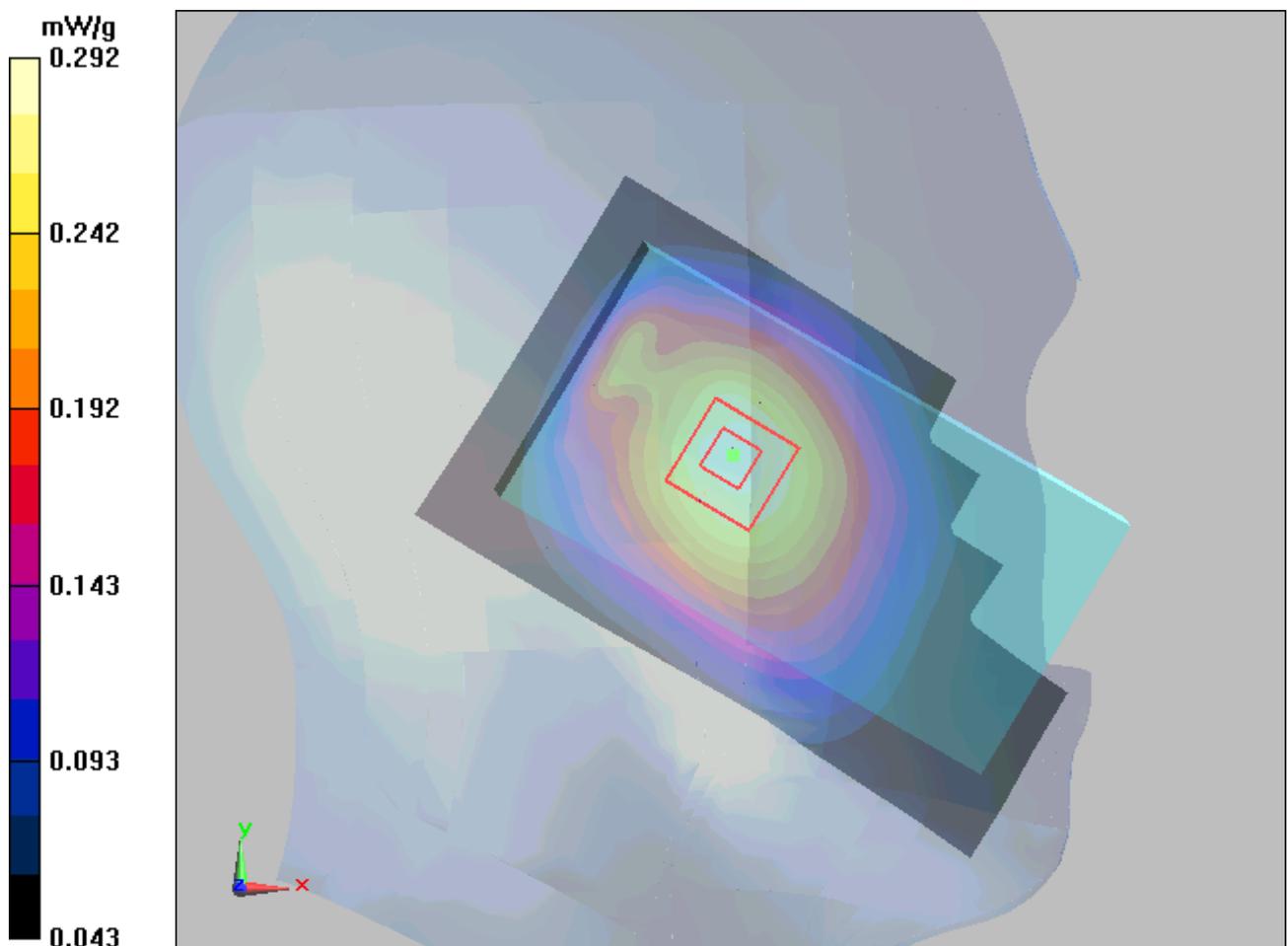


Figure 21 CDMA Cellular Left Hand Tilt 15° Channel 384

CDMA Cellular Right Cheek Middle (SN: UWDC320XBGN01407)

Date/Time: 9/21/2012 2:38:51 PM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.896$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 7.82 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.467 W/kg

SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.295 mW/g

Maximum value of SAR (measured) = 0.406 mW/g

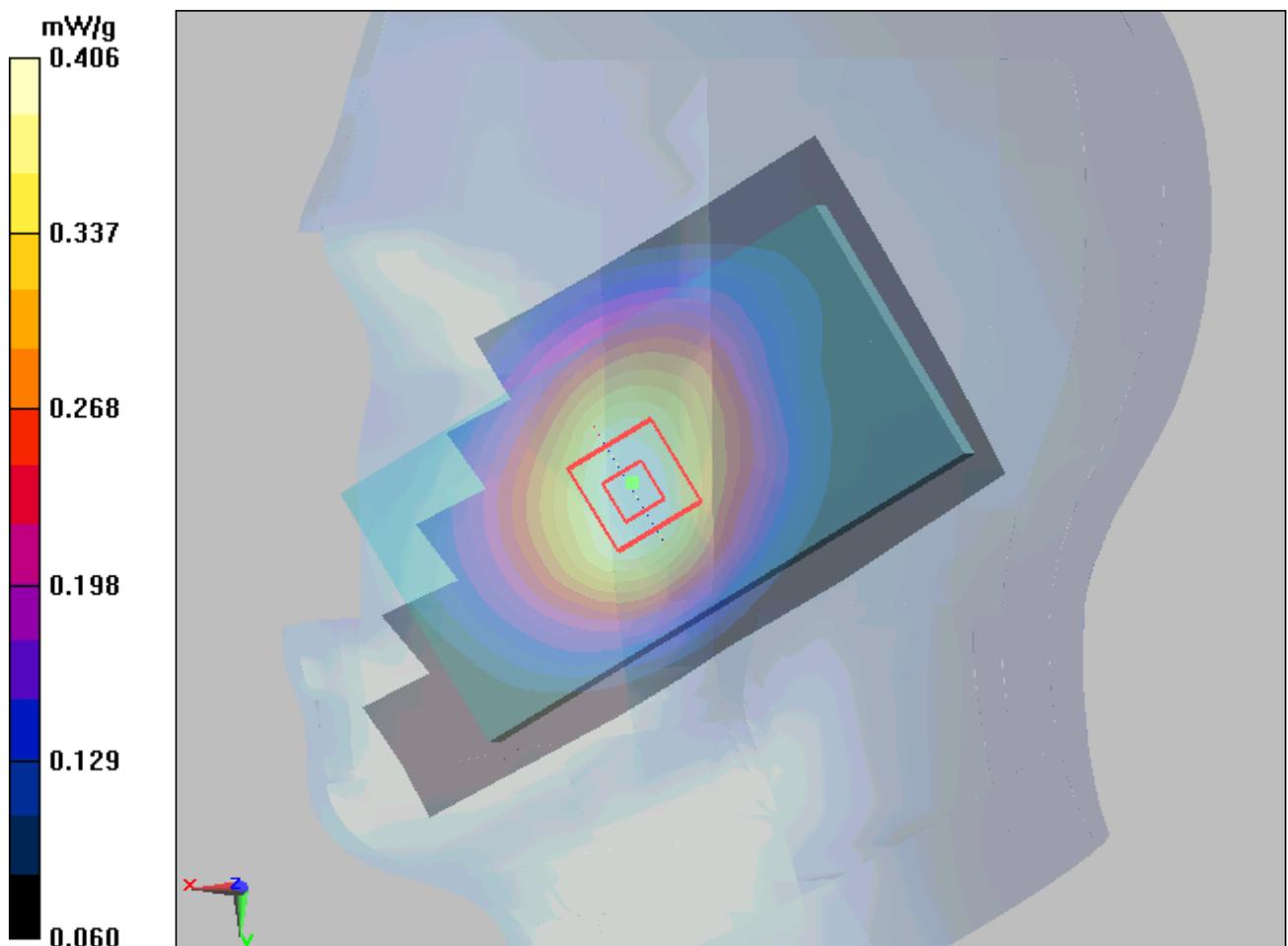


Figure 22 CDMA Cellular Right Hand Touch Cheek Channel 384

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CDMA Cellular Right Tilt Middle (SN: UWDC320XBGN01407)

Date/Time: 9/21/2012 2:59:13 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.896$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 12.5 V/m; Power Drift = -0.00399 dB

Peak SAR (extrapolated) = 0.315 W/kg

SAR(1 g) = 0.256 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.266 mW/g

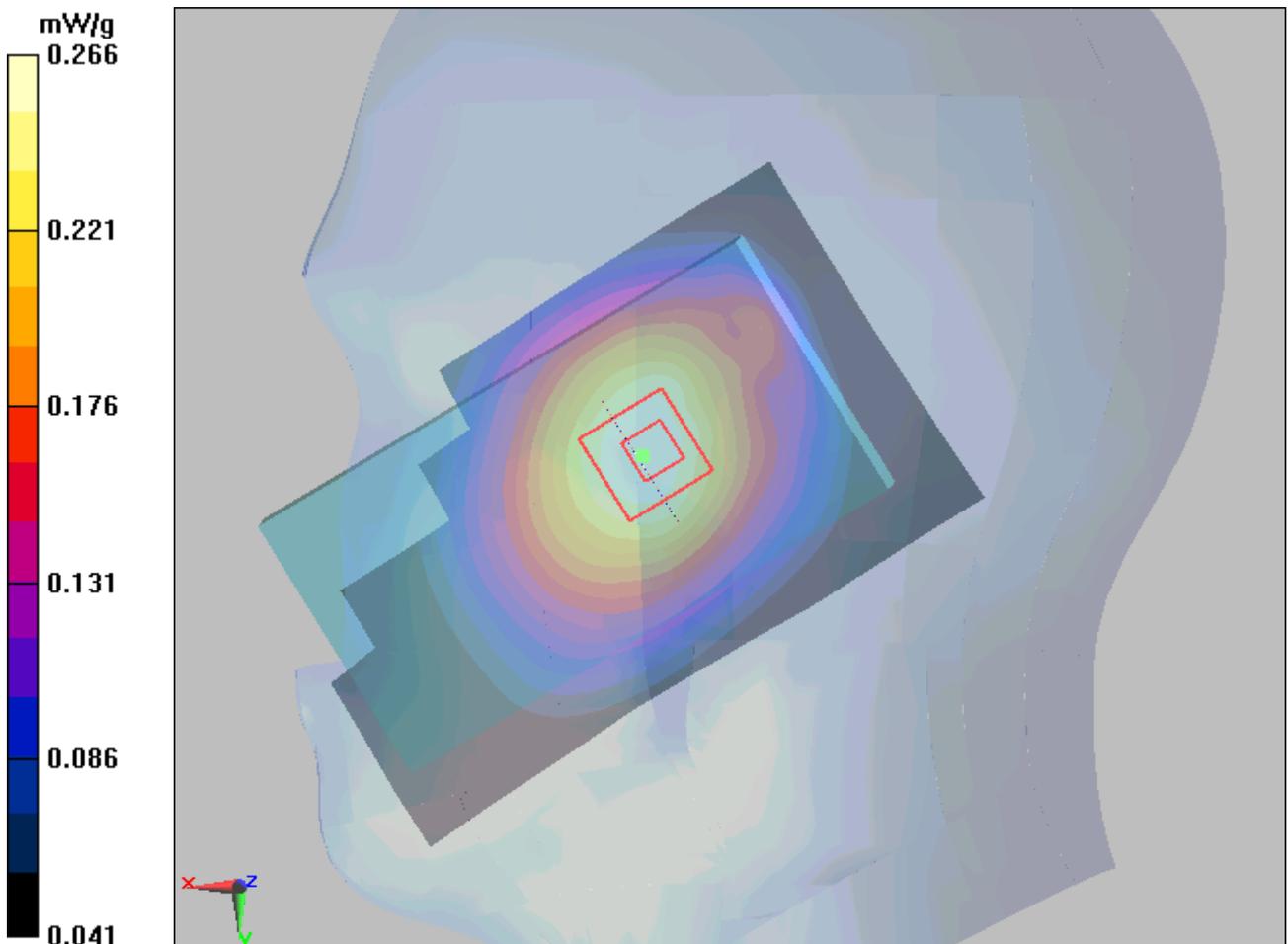


Figure 23 CDMA Cellular Right Hand Tilt 15° Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

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CDMA Cellular Left Cheek Middle (SN: MAIC702X03600810)

Date/Time: 9/21/2012 6:50:28 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.896$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.435 mW/g

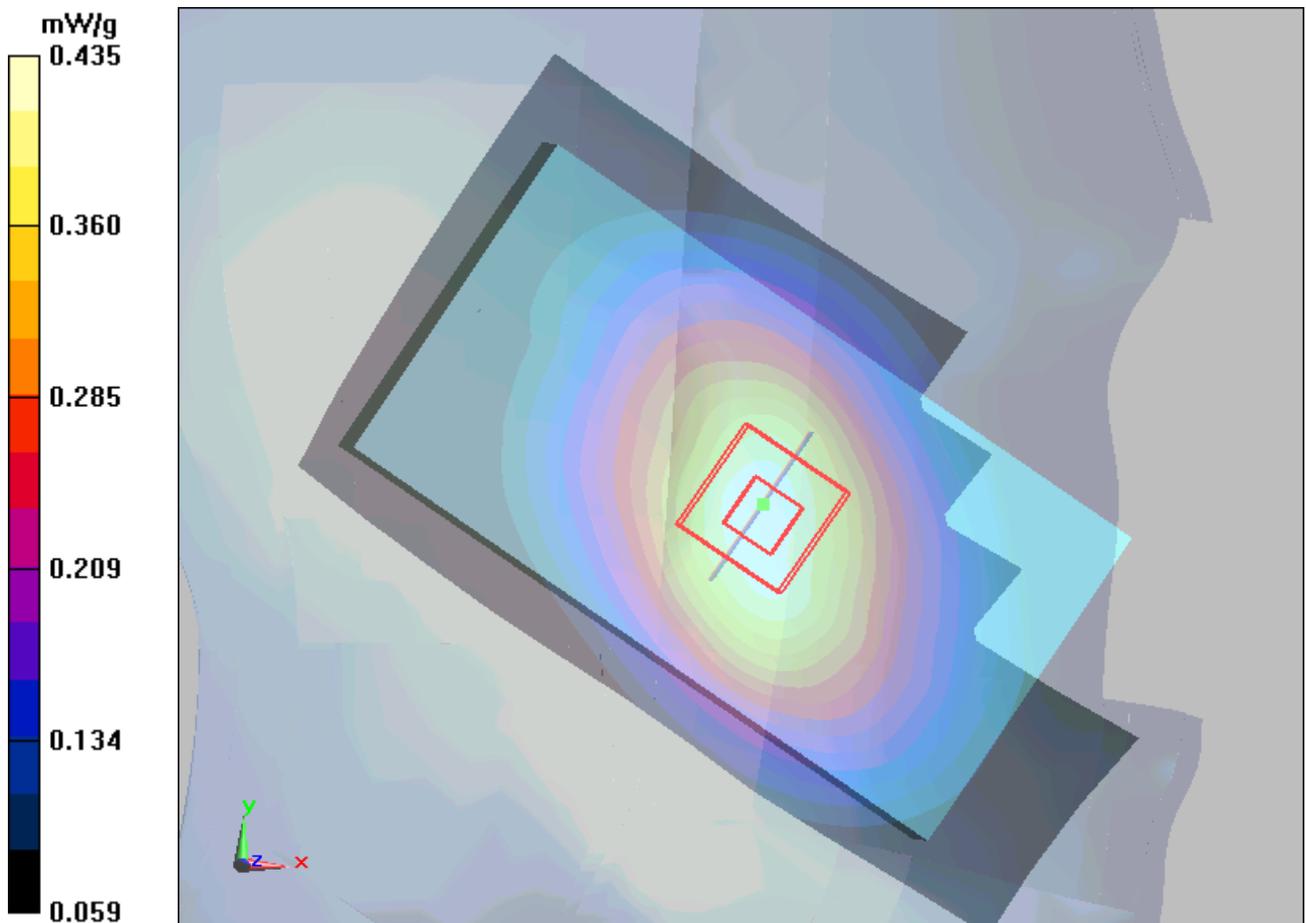
Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.43 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.314 mW/g

Maximum value of SAR (measured) = 0.435 mW/g



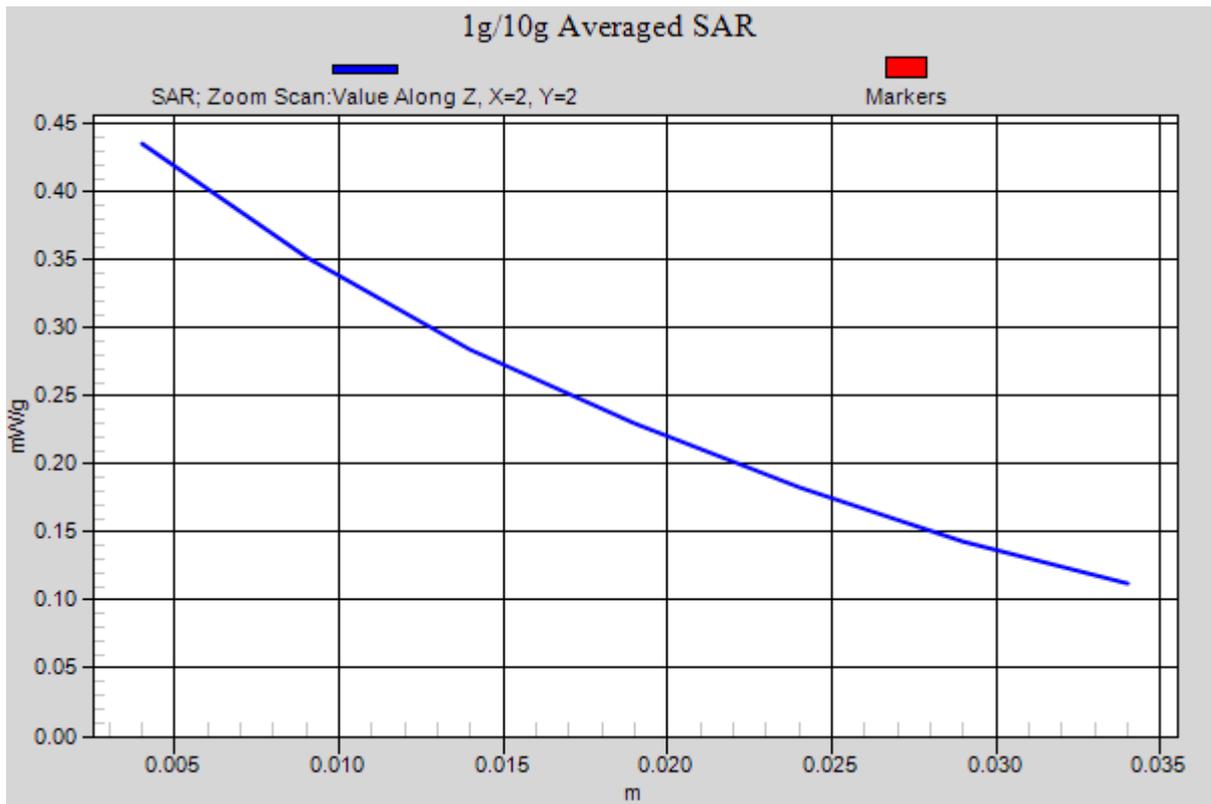


Figure 24 CDMA Cellular Left Hand Touch Cheek Channel 384

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CDMA Cellular Back Side Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 9/29/2012 11:07:14 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.710 mW/g

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

Reference Value = 26.5 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.843 W/kg

SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.503 mW/g

Maximum value of SAR (measured) = 0.704 mW/g

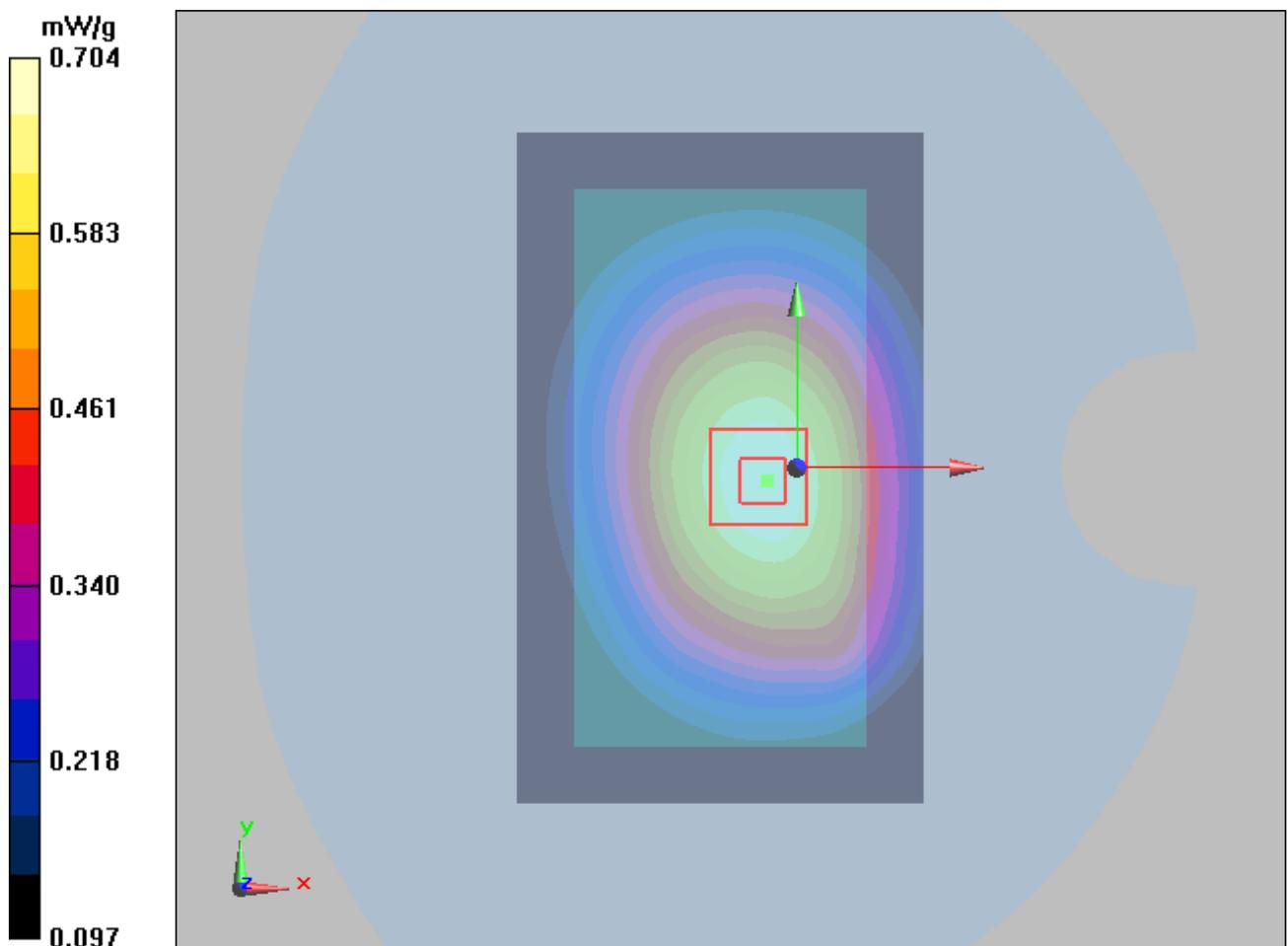


Figure 25 Body, CDMA Cellular Back Side Channel 384

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Test Report

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CDMA Cellular Front Side Middle (SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 9/29/2012 3:27:02 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.602 mW/g

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

Reference Value = 25.3 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.429 mW/g

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

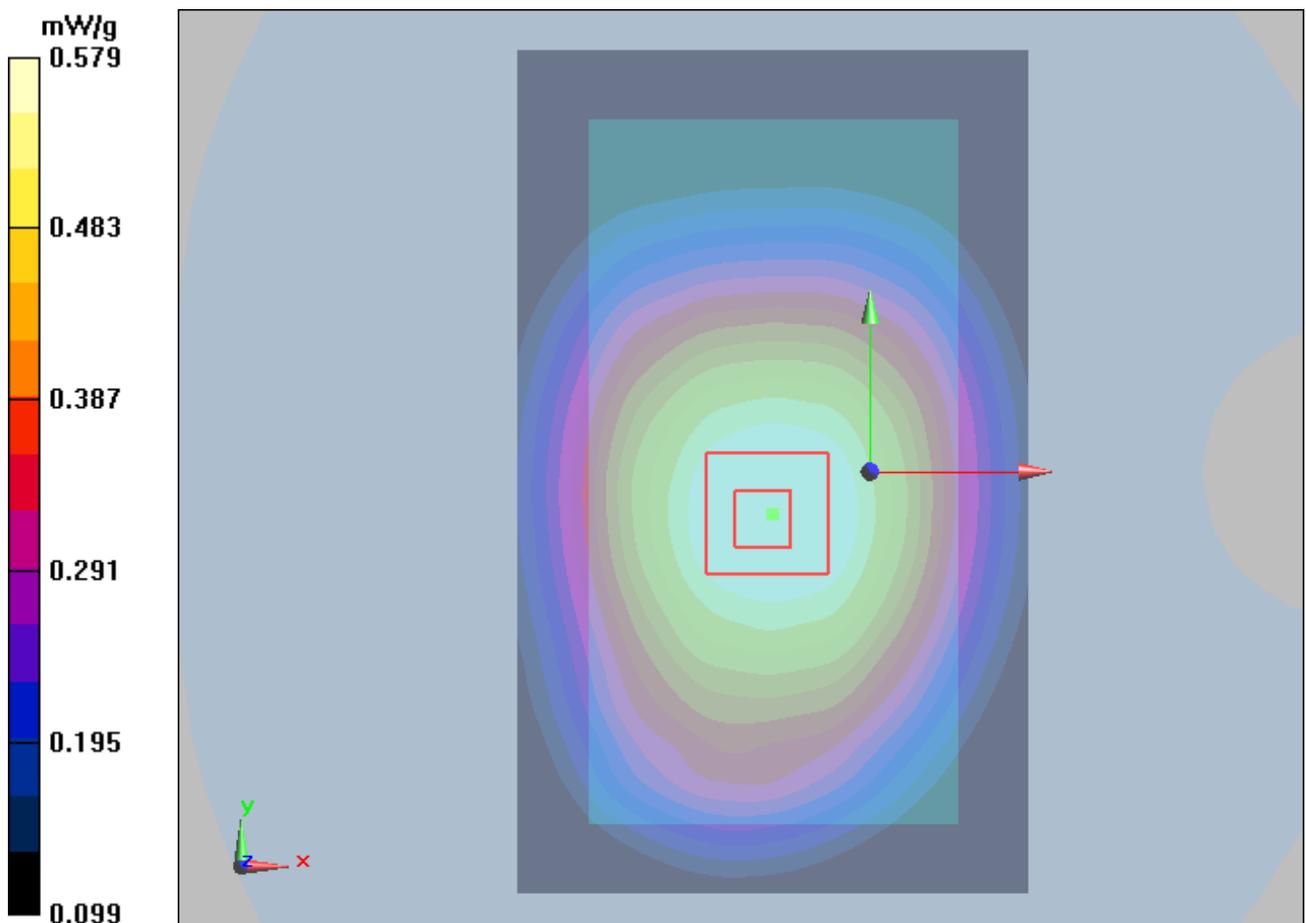


Figure 26 Body, CDMA Cellular Front Side Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Left Edge Middle (SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 9/29/2012 9:22:28 AM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Left Edge Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.597 mW/g

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

Reference Value = 25.4 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 0.755 W/kg

SAR(1 g) = 0.545 mW/g; SAR(10 g) = 0.377 mW/g

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

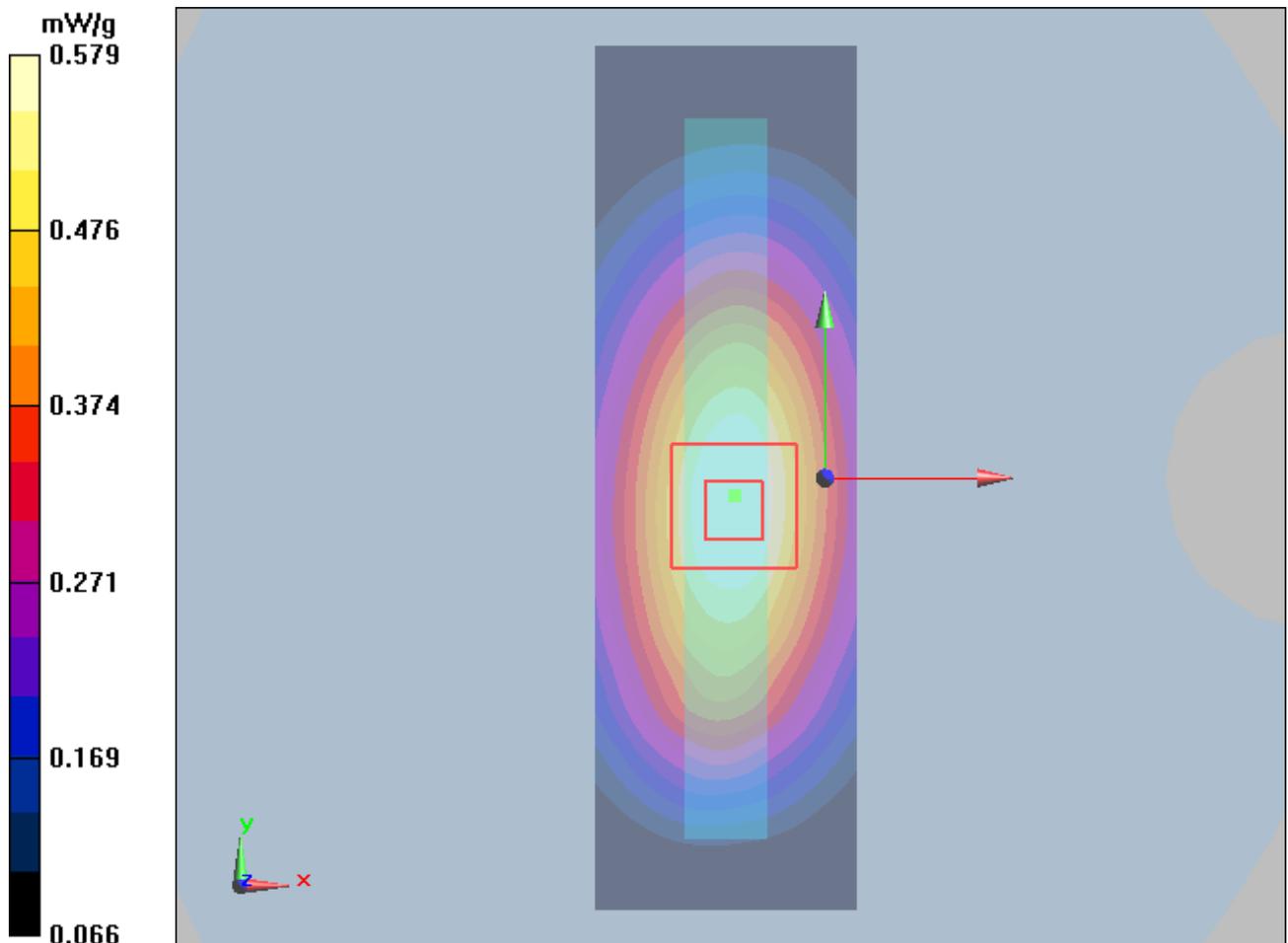


Figure 27 Body, CDMA Cellular Left Edge Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Right Edge Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 9/29/2012 9:44:32 AM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Edge Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.364 mW/g

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

Reference Value = 19.7 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 0.475 W/kg

SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.237 mW/g

Maximum value of SAR (measured) = 0.365 mW/g

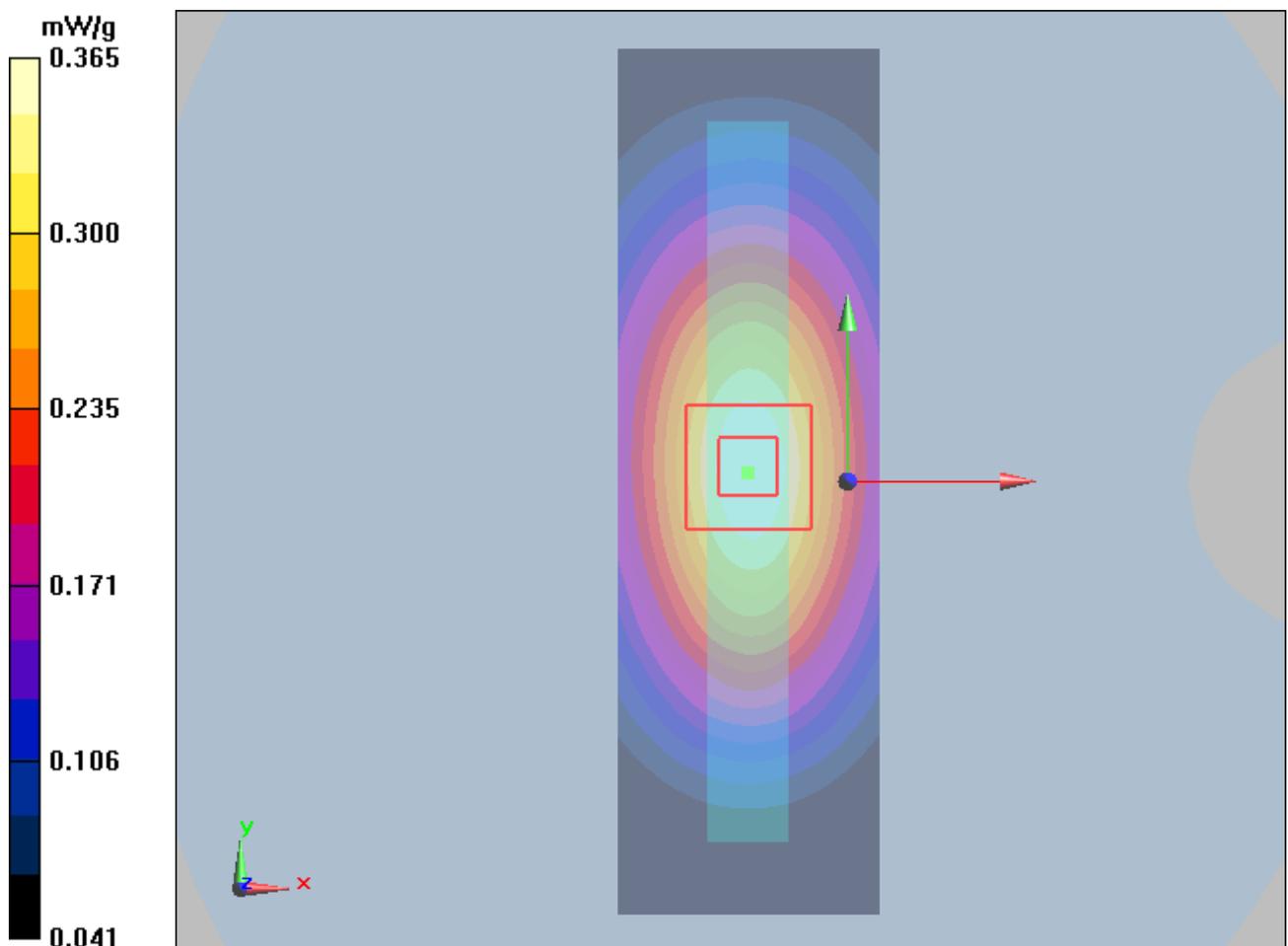


Figure 28 Body, CDMA Cellular Right Edge Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Bottom Edge Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 9/29/2012 10:00:58 AM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Edge Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.158 mW/g

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

Reference Value = 12.9 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 0.257 W/kg

SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.083 mW/g

Maximum value of SAR (measured) = 0.159 mW/g

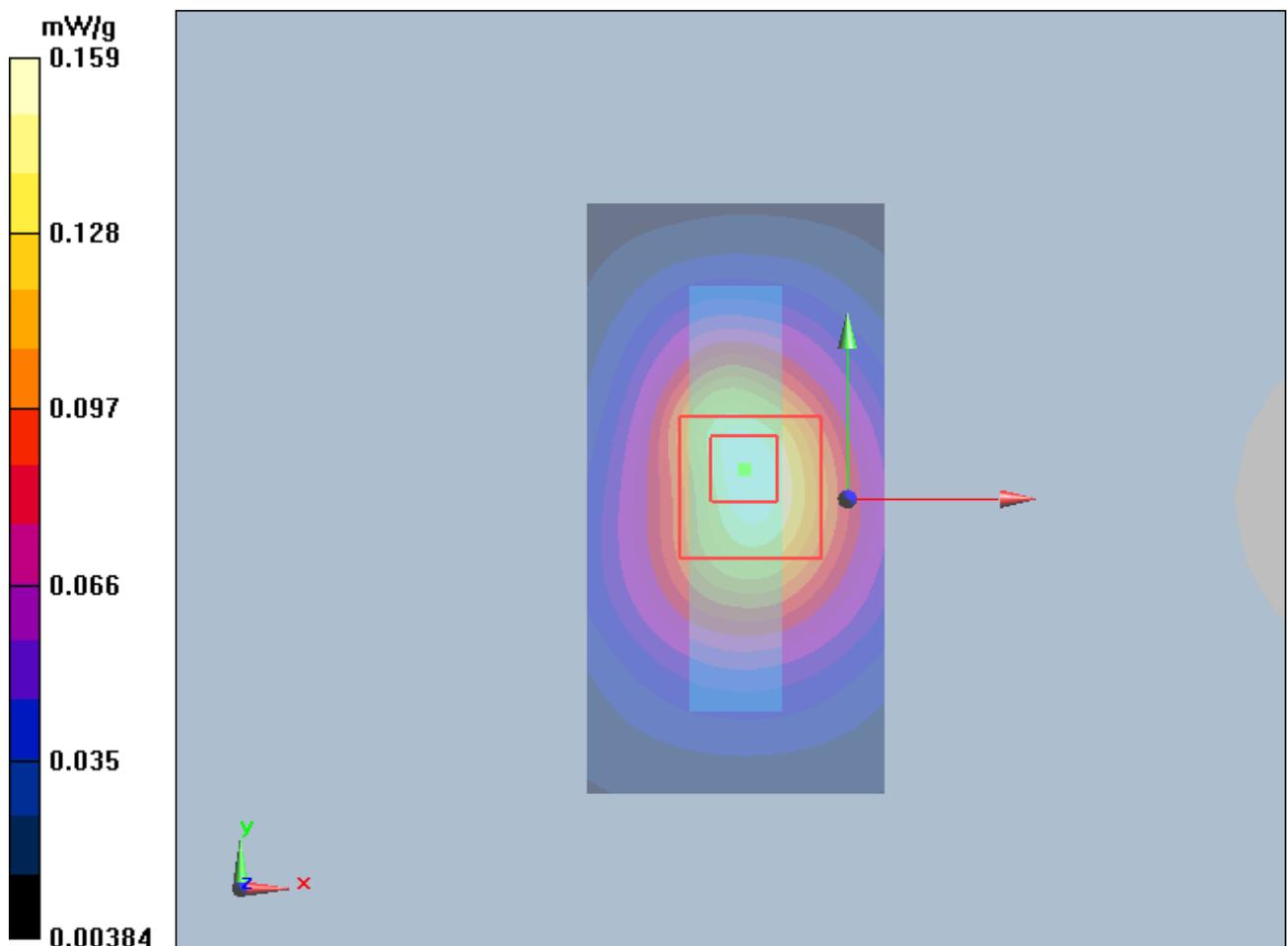


Figure 29 Body, CDMA Cellular Bottom Edge Channel 384

TA Technology (Shanghai) Co., Ltd. Test Report

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CDMA Cellular Back Side Middle (SN: MAIC702X03600810, Distance 10mm)

Date/Time: 9/29/2012 9:45:09 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.766 mW/g

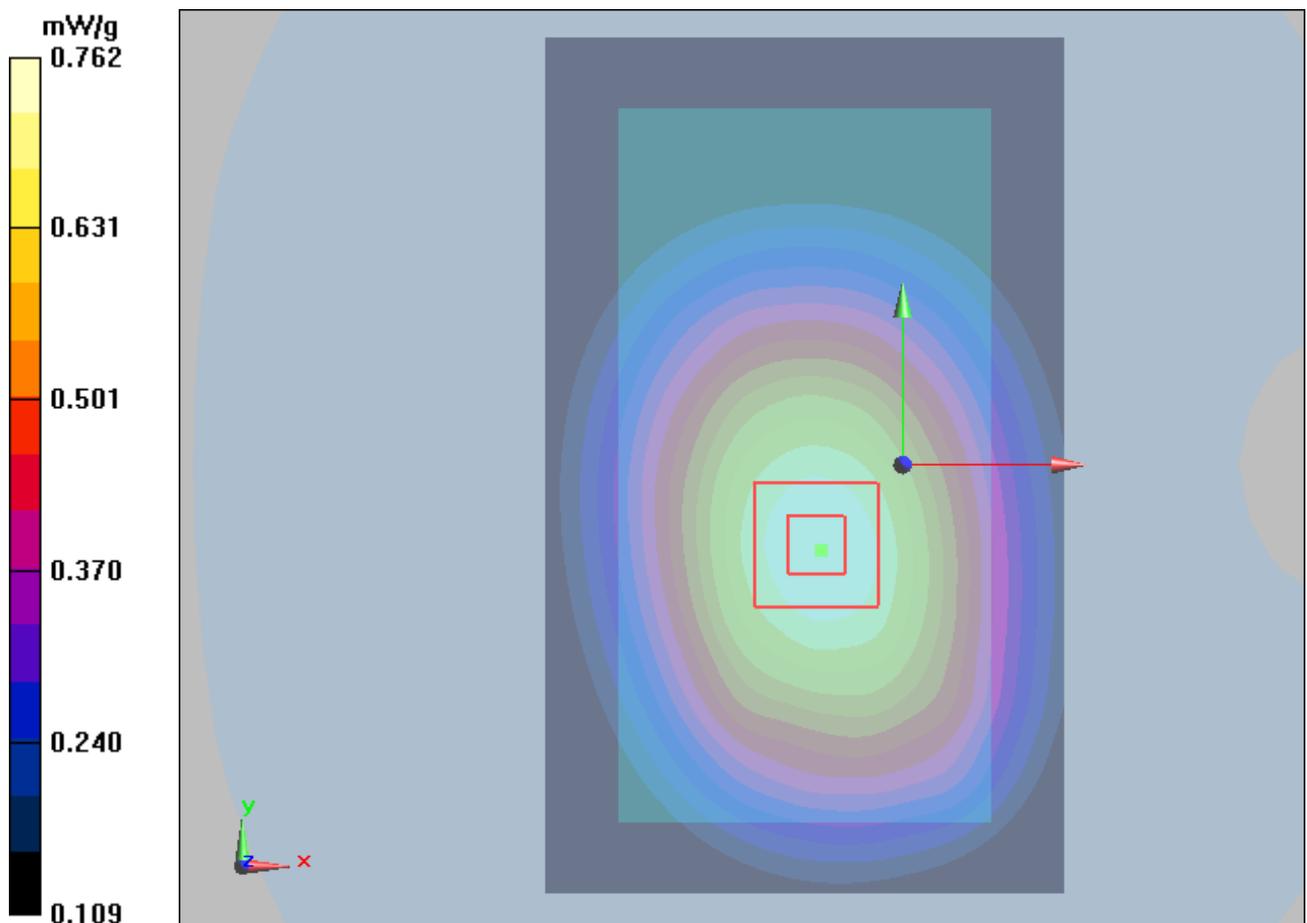
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.5 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.906 W/kg

SAR(1 g) = 0.726 mW/g; SAR(10 g) = 0.549 mW/g

Maximum value of SAR (measured) = 0.762 mW/g



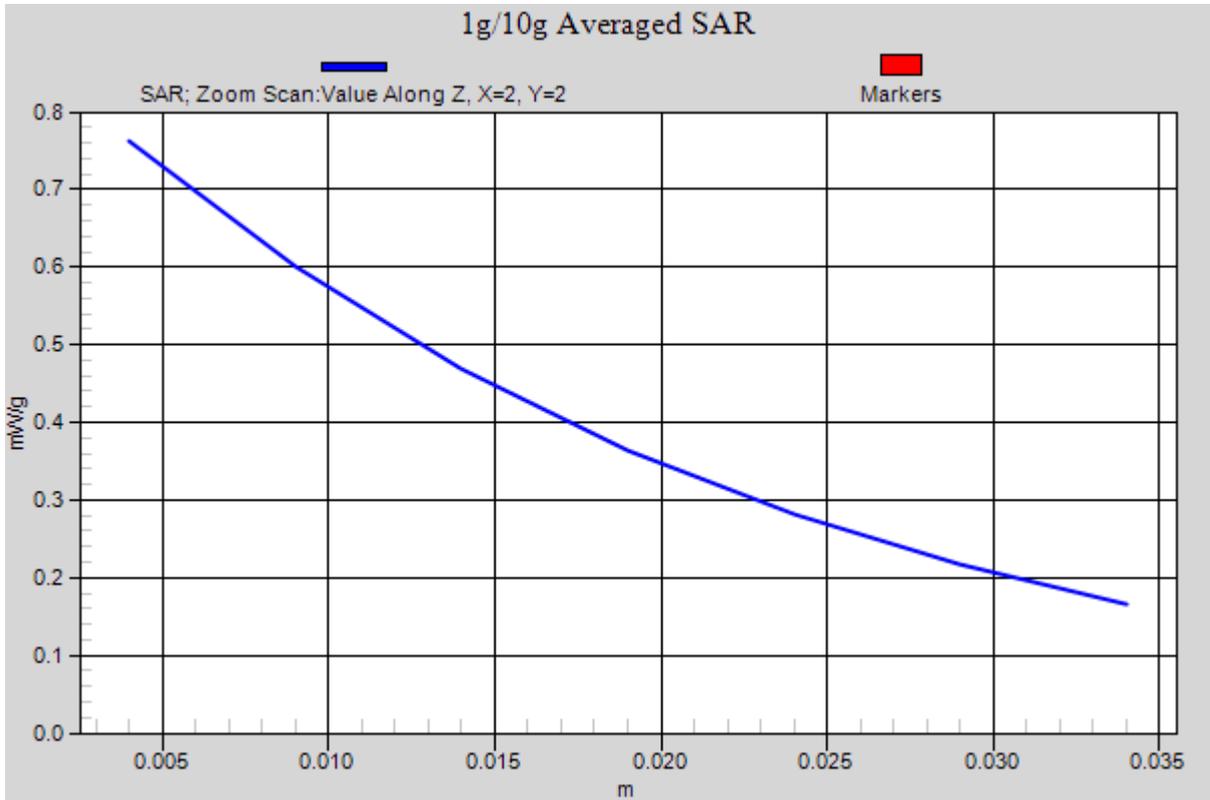


Figure 30 Body, CDMA Cellular Back Side Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Front Side Middle (SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 9/29/2012 3:45:33 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.513 mW/g

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

Reference Value = 23.4 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.379 mW/g

Maximum value of SAR (measured) = 0.513 mW/g

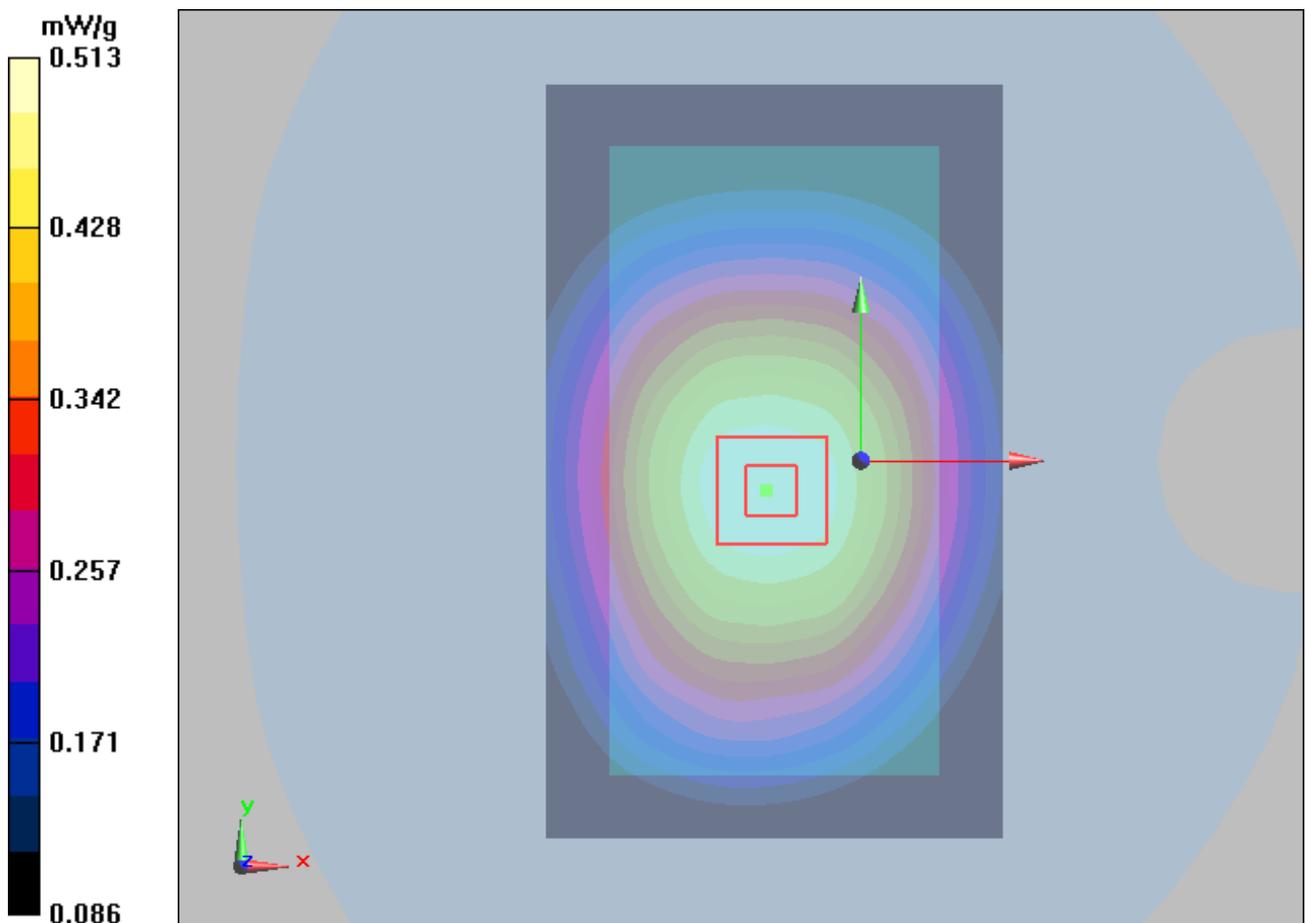


Figure 32 Body, CDMA Cellular Front Side Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

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CDMA Cellular with Earphone Back Side Middle (SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 9/29/2012 8:54:08 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 18.5 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.392 W/kg

SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.234 mW/g

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

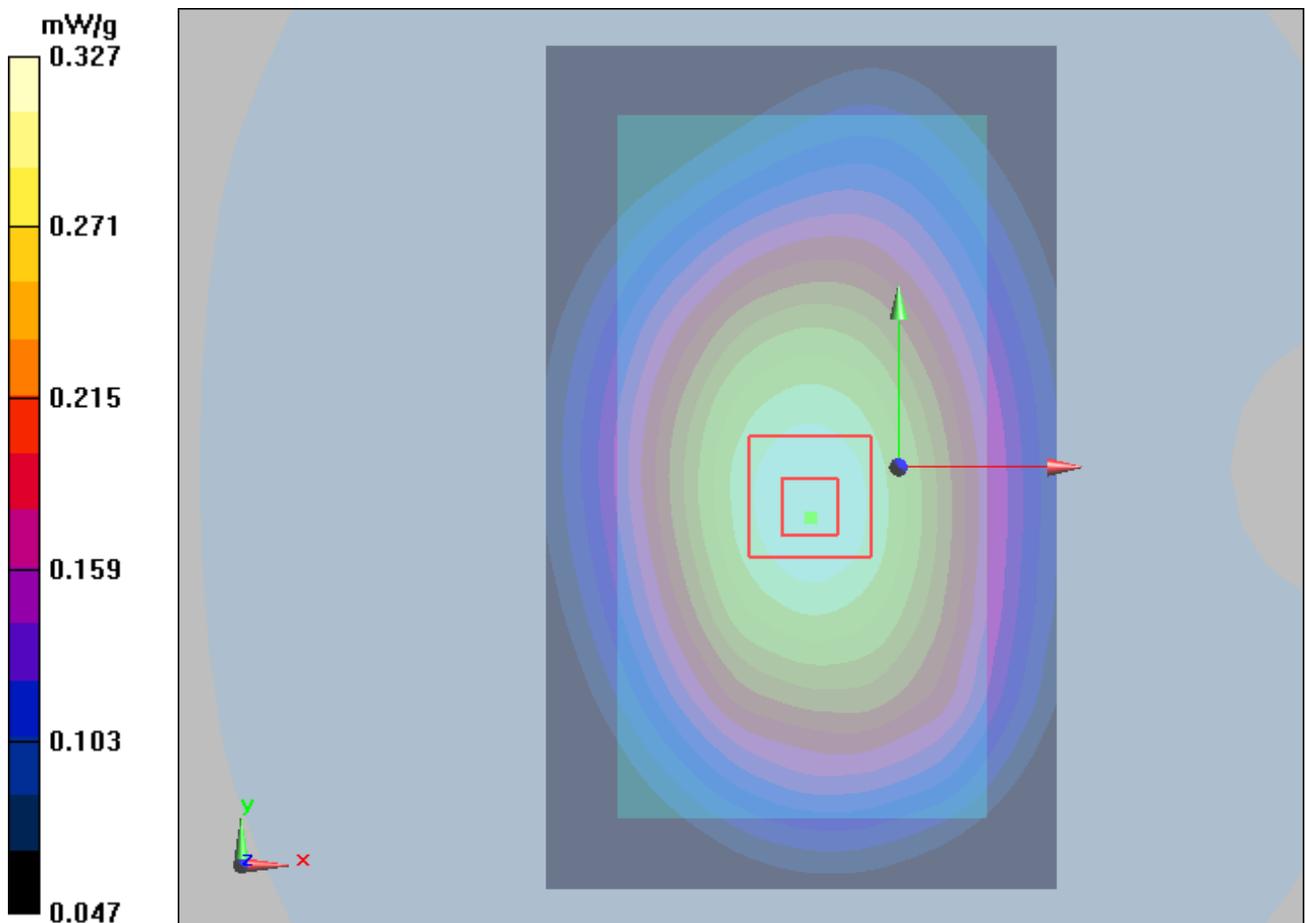


Figure 33 Body, CDMA Cellular with Earphone Back Side Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Back Side Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/28/2012 8:54:28 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.071 mW/g

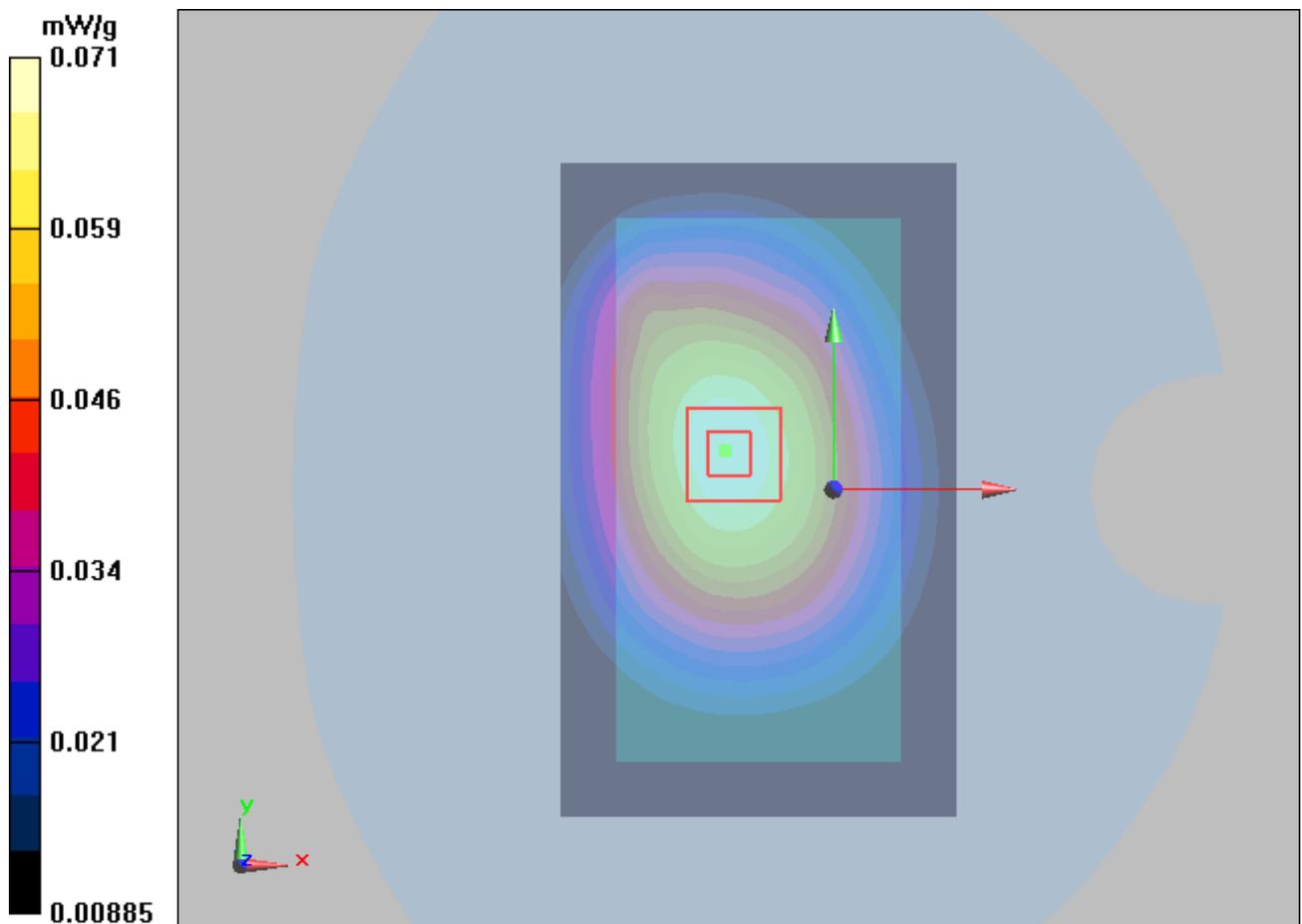
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.43 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 0.084 W/kg

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.071 mW/g



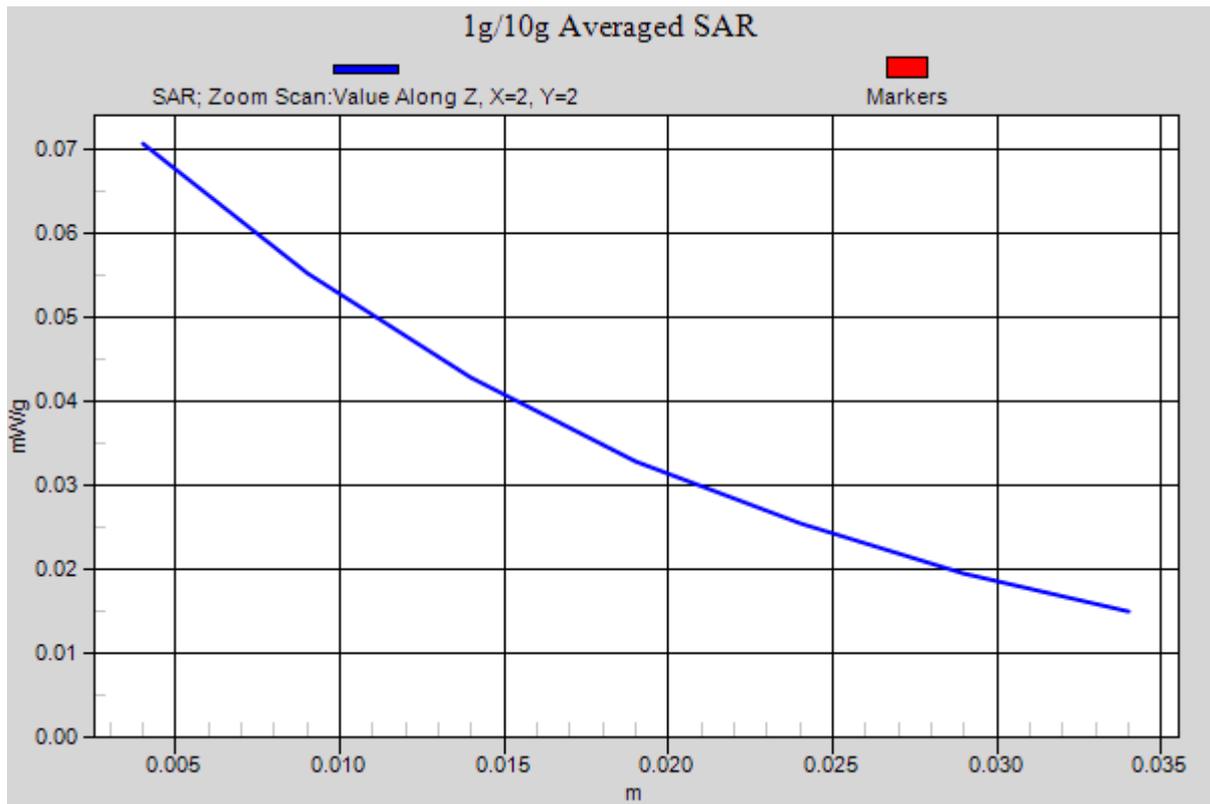


Figure 34 Body, CDMA Cellular Back Side Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Front Side Middle (SN: UWDC320XBGN01407, P=14.5dBm,Distance 10mm)

Date/Time: 11/28/2012 8:36:38 PM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.052 mW/g

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

Reference Value = 7.29 V/m; Power Drift = 0.126 dB

Peak SAR (extrapolated) = 0.061 W/kg

SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.052 mW/g

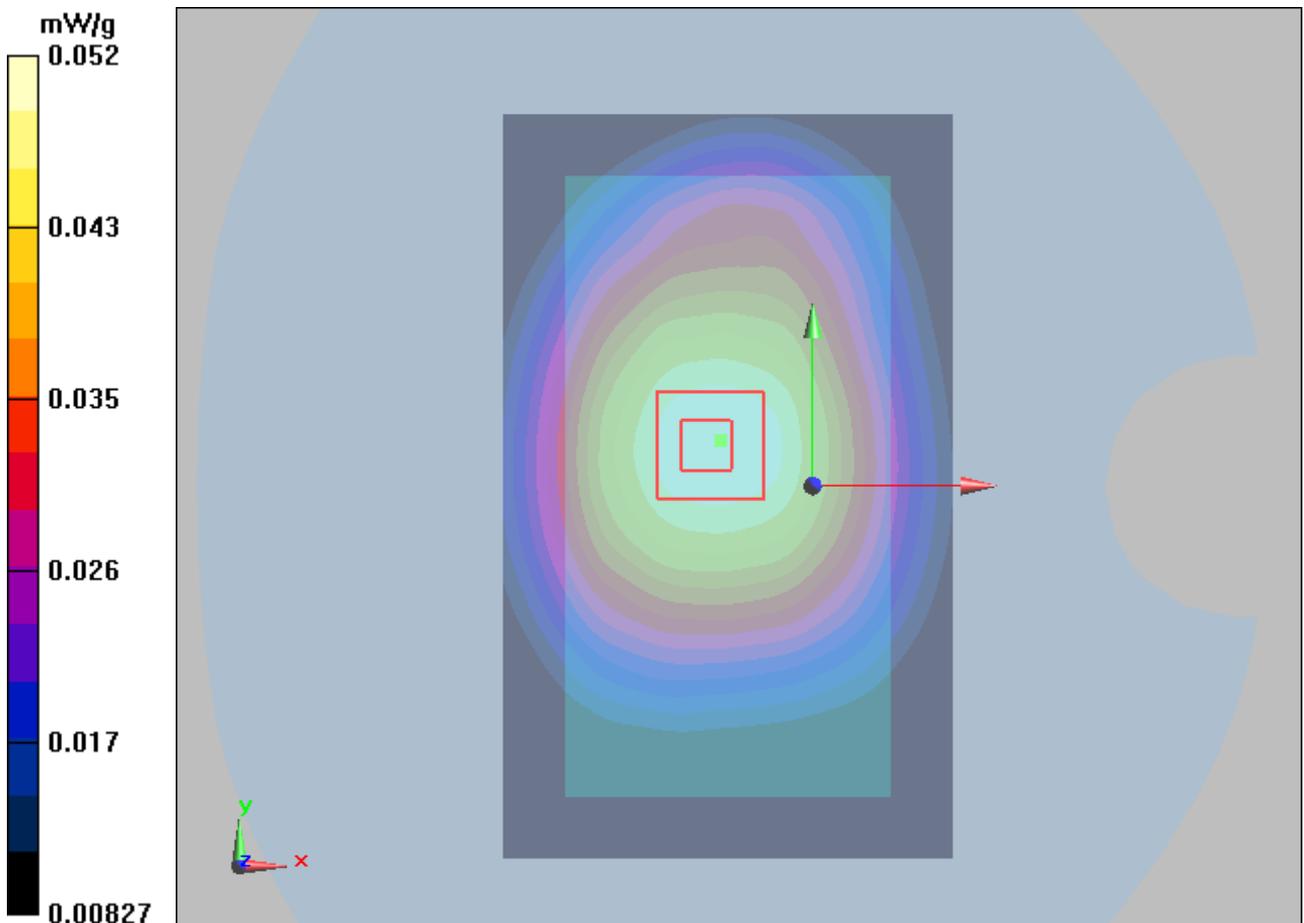


Figure 35 Body, CDMA Cellular Front Side Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Left Edge Middle (SN: UWDC320XBG01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/28/2012 7:48:10 PM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Left Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.047 mW/g

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

Reference Value = 7.21 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.064 W/kg

SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.049 mW/g

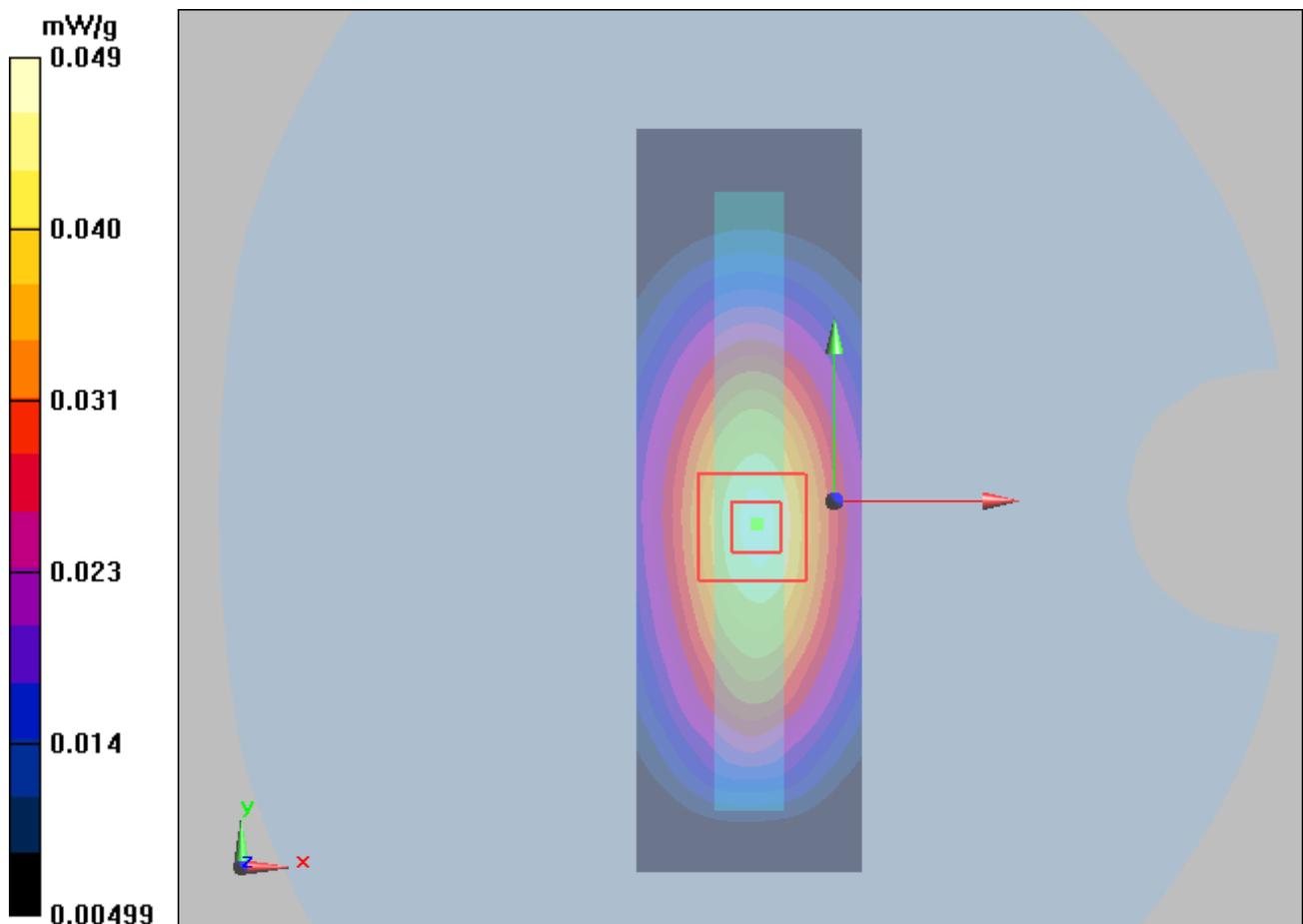


Figure 36 Body, CDMA Cellular Left Edge Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Right Edge Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/28/2012 8:03:01 PM

Communication System: CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.031 mW/g

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

Reference Value = 5.61 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.040 W/kg

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.031 mW/g

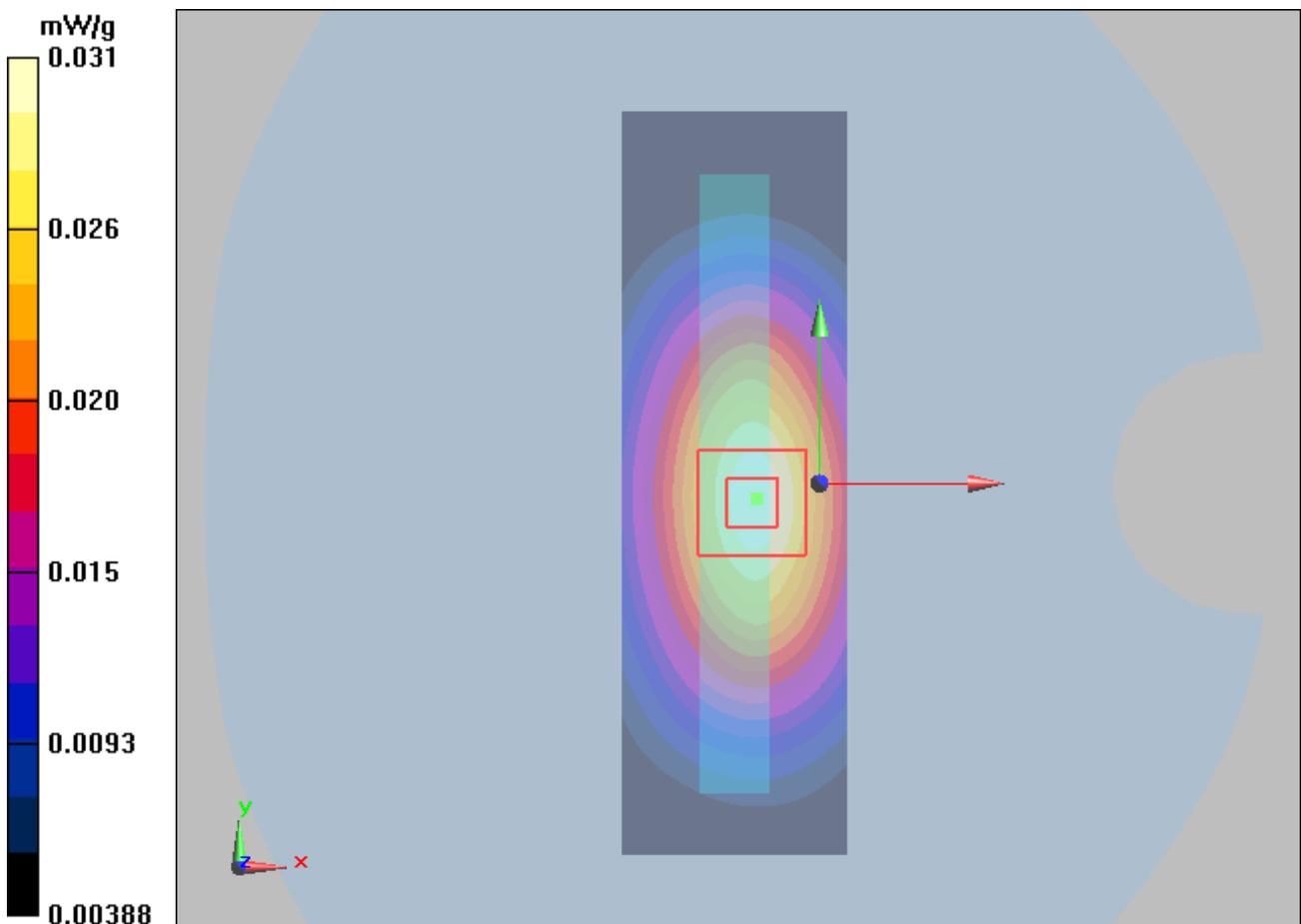


Figure 37 Body, CDMA Cellular Right Edge Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Bottom Edge Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/28/2012 8:23:16 PM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Side Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.018 mW/g

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

Reference Value = 4.29 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 0.032 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00911 mW/g

Maximum value of SAR (measured) = 0.018 mW/g

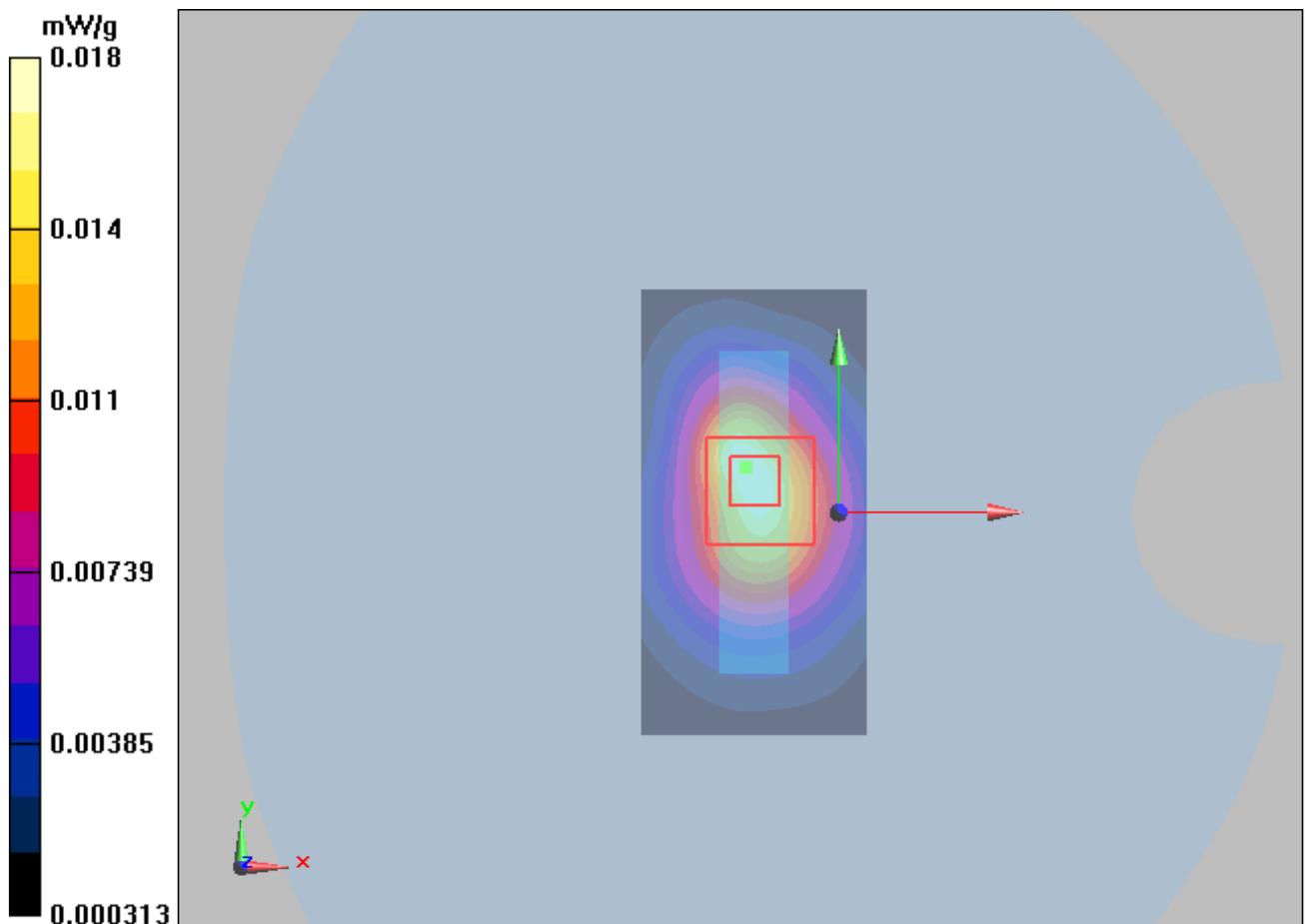


Figure 38 Body, CDMA Cellular Bottom Edge Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular with earphone Back Side Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/28/2012 9:12:36 PM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.051 mW/g

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

Reference Value = 6.8 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.062 W/kg

SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.051 mW/g

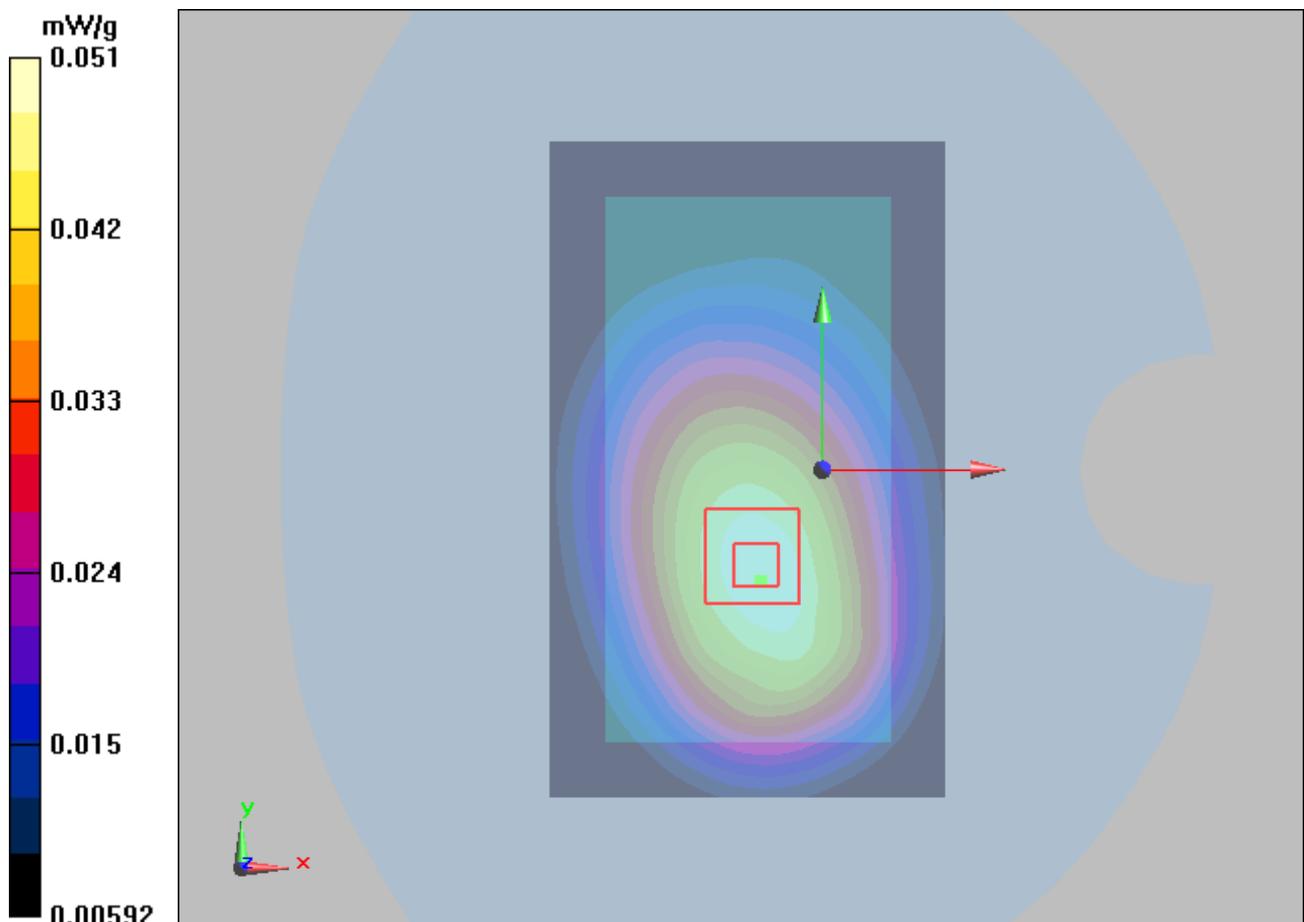


Figure 39 Body, CDMA Cellular Back Side Channel 384

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA Cellular Back Side Middle (SN: MAIC702X03600810, P=14.5dBm, Distance 10mm)

Date/Time: 11/28/2012 9:32:30 PM

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.971$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(5.81, 5.81, 5.81); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.069 mW/g

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

Reference Value = 8.36 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.082 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.069 mW/g

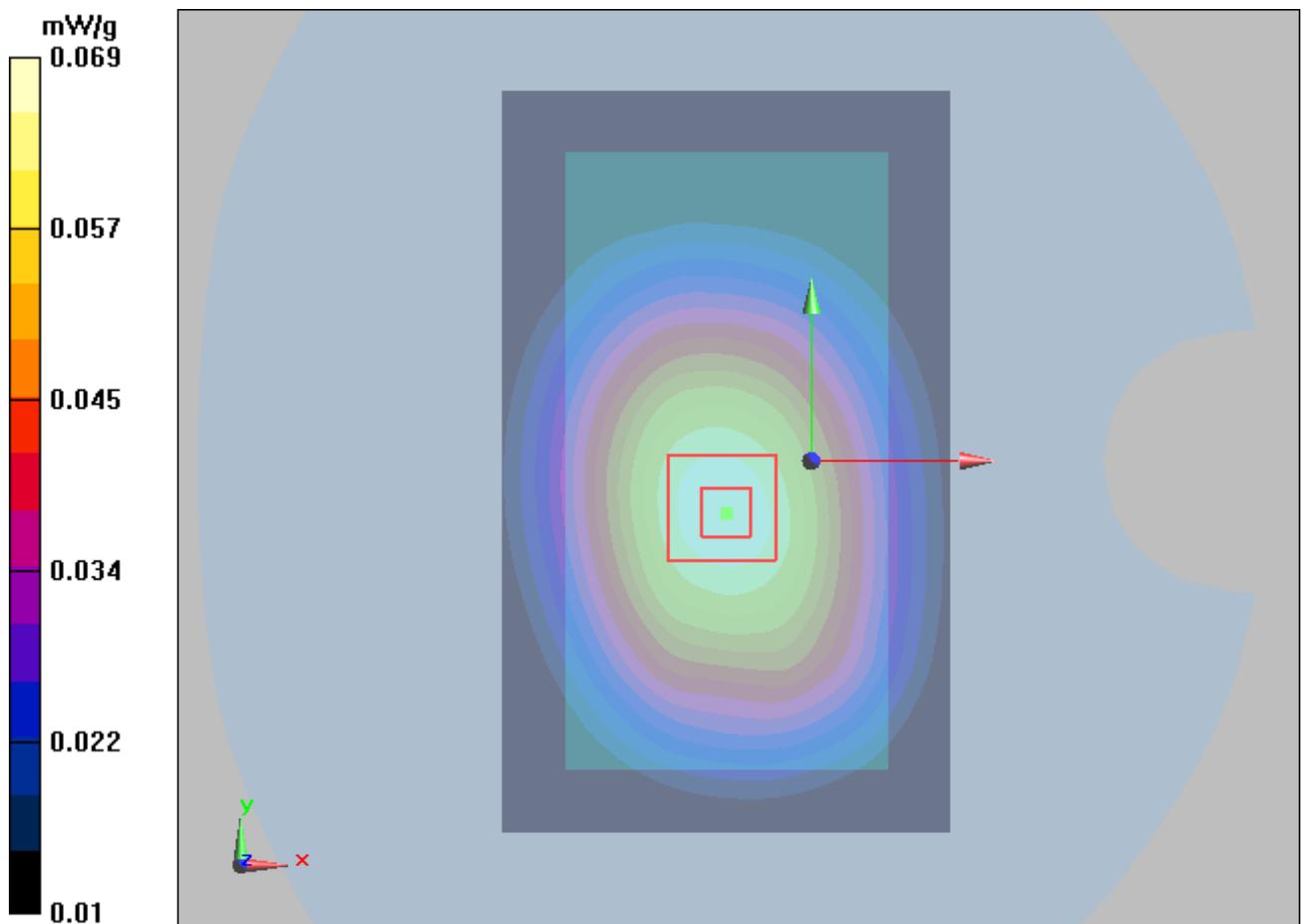


Figure 40 Body, CDMA Cellular Back Side Channel 384

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CDMA PCS Left Cheek Middle (SN: UWDC320XBGN01407)

Date/Time: 10/9/2012 5:28:34 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.534 mW/g

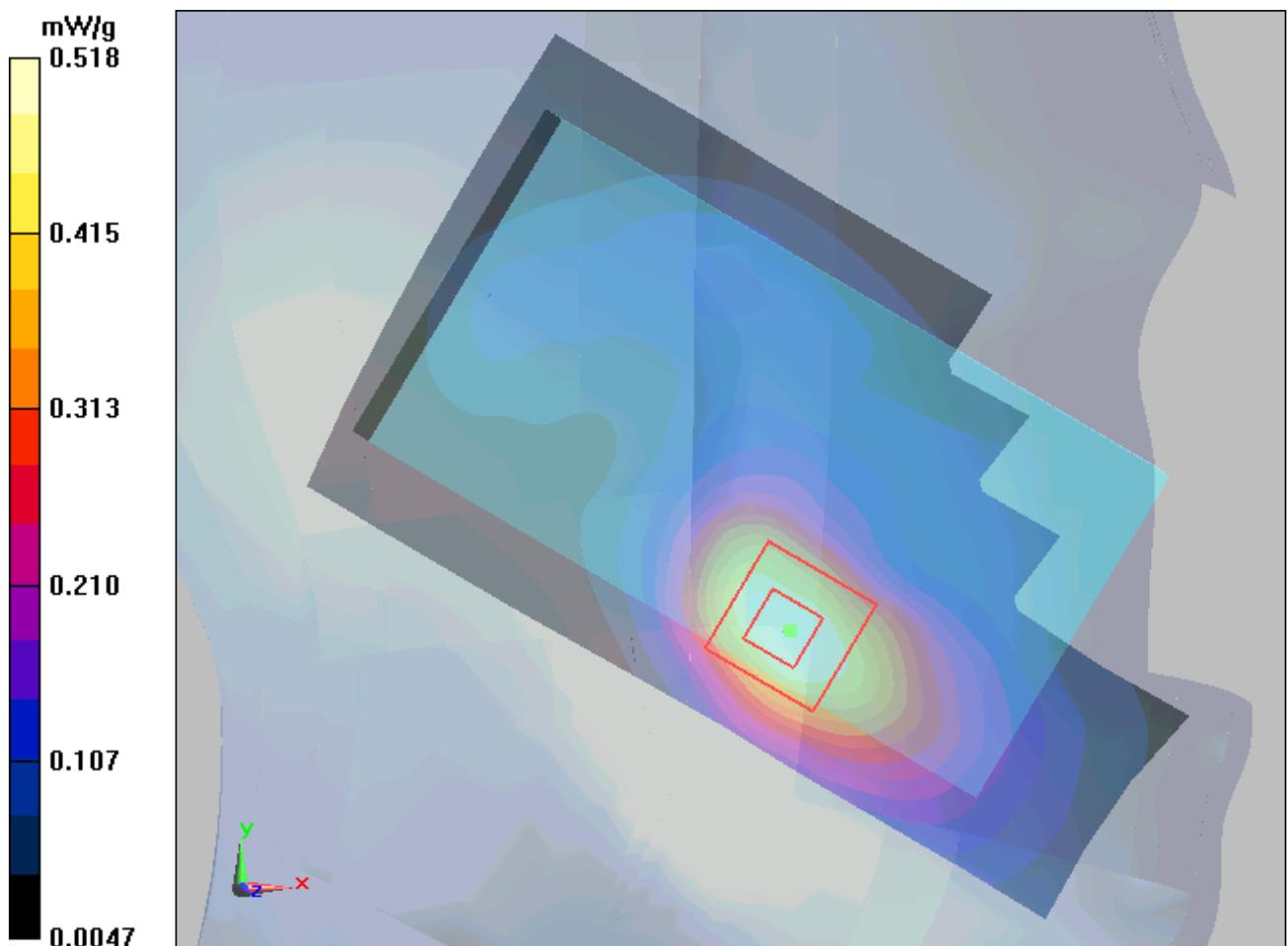
Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.55 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.284 mW/g

Maximum value of SAR (measured) = 0.518 mW/g



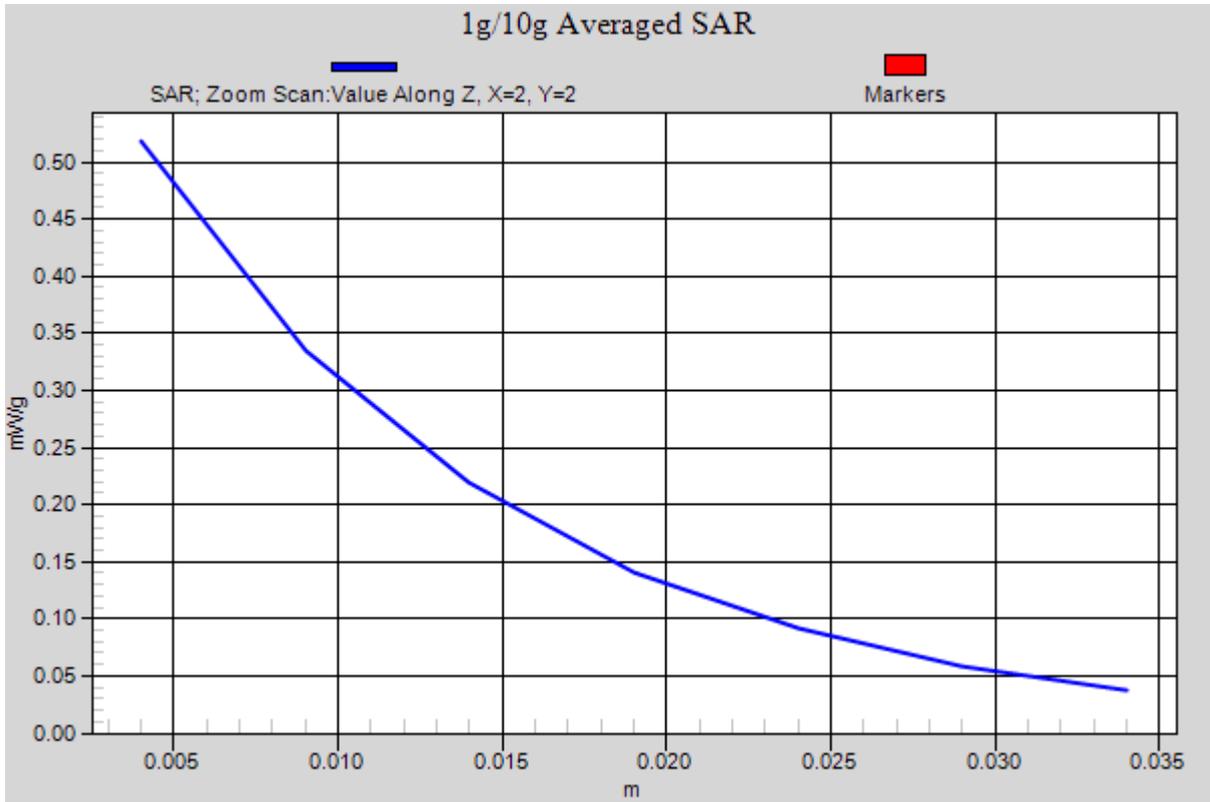


Figure 41 CDMA PCS Left Hand Touch Cheek Channel 600

CDMA PCS Left Tilt Middle (SN: UWDC320XBGN01407)

Date/Time: 10/9/2012 5:46:13 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.194 mW/g

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

Reference Value = 11.8 V/m; Power Drift = 0.095 dB

Peak SAR (extrapolated) = 0.294 W/kg

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.193 mW/g

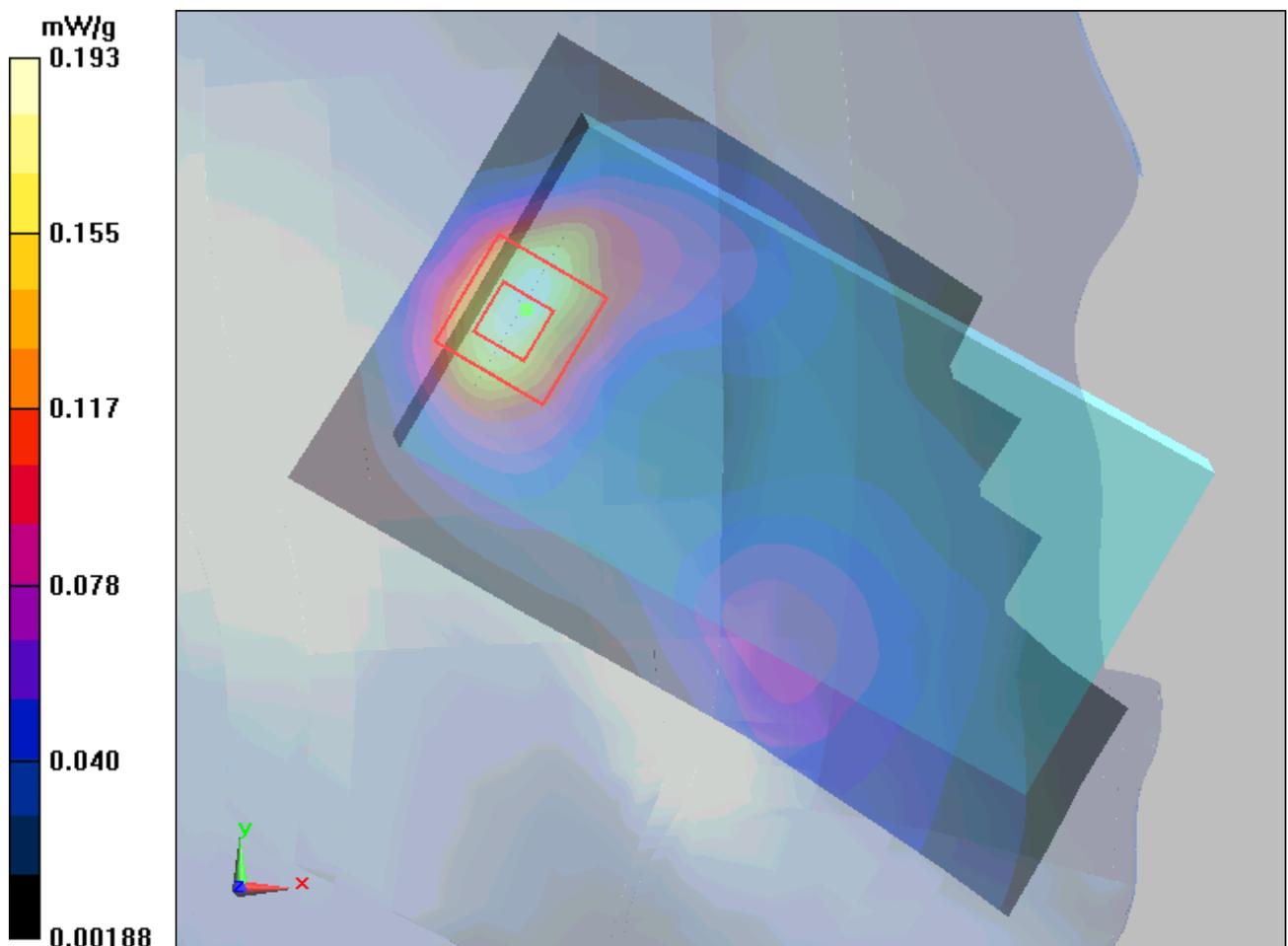


Figure 42 CDMA PCS Left Hand Tilt 15° Channel 600

CDMA PCS Right Cheek Middle (SN: UWDC320XBGN01407)

Date/Time: 10/9/2012 6:04:14 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.243 mW/g

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

Reference Value = 8.12 V/m; Power Drift = 0.196 dB

Peak SAR (extrapolated) = 0.358 W/kg

SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.245 mW/g

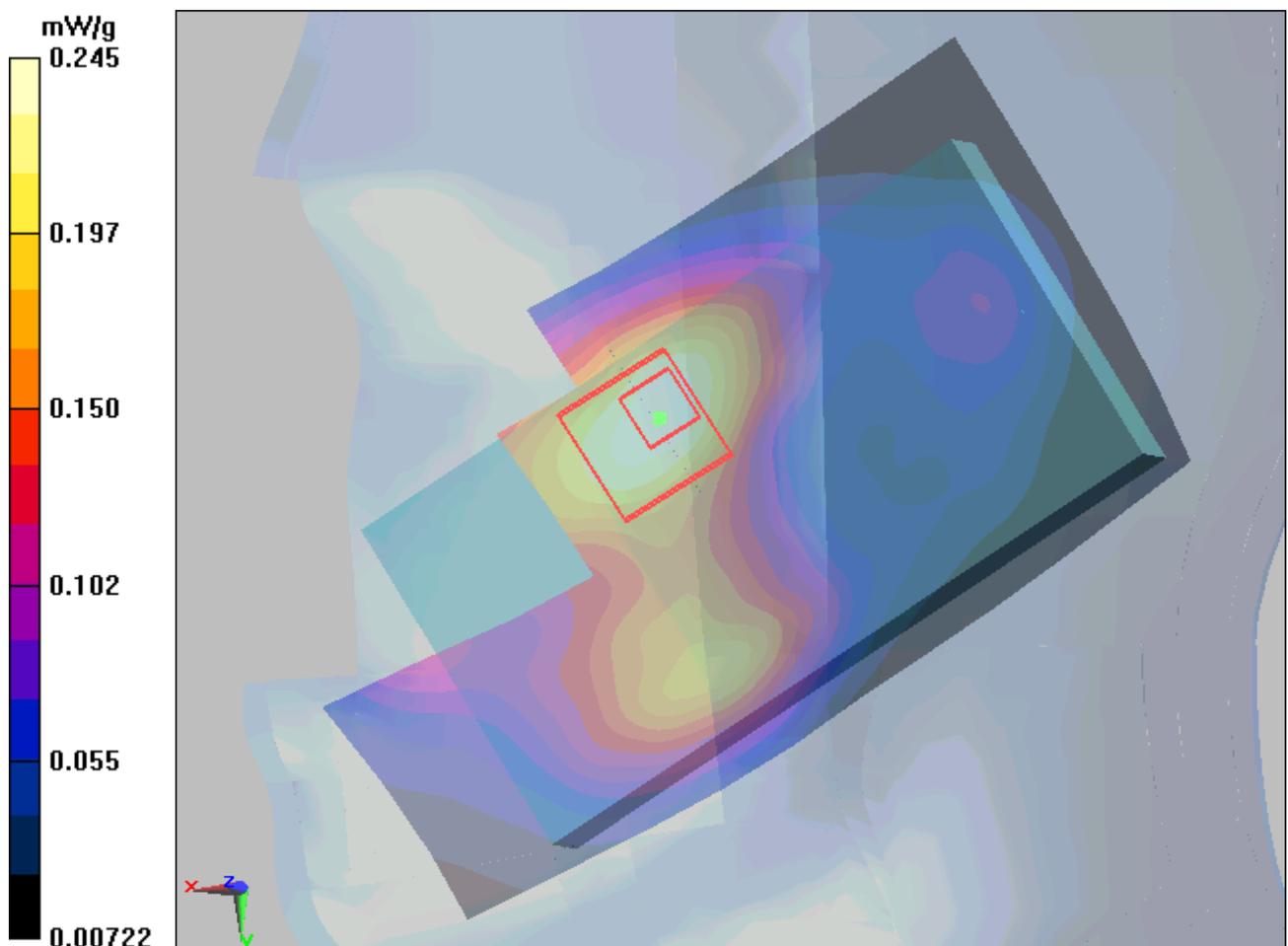


Figure 43 CDMA PCS Right Hand Touch Cheek Channel 600

CDMA PCS Right Tilt Middle (SN: UWDC320XBGN01407)

Date/Time: 10/9/2012 6:21:39 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.166 mW/g

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

Reference Value = 10.8 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.085 mW/g

Maximum value of SAR (measured) = 0.172 mW/g

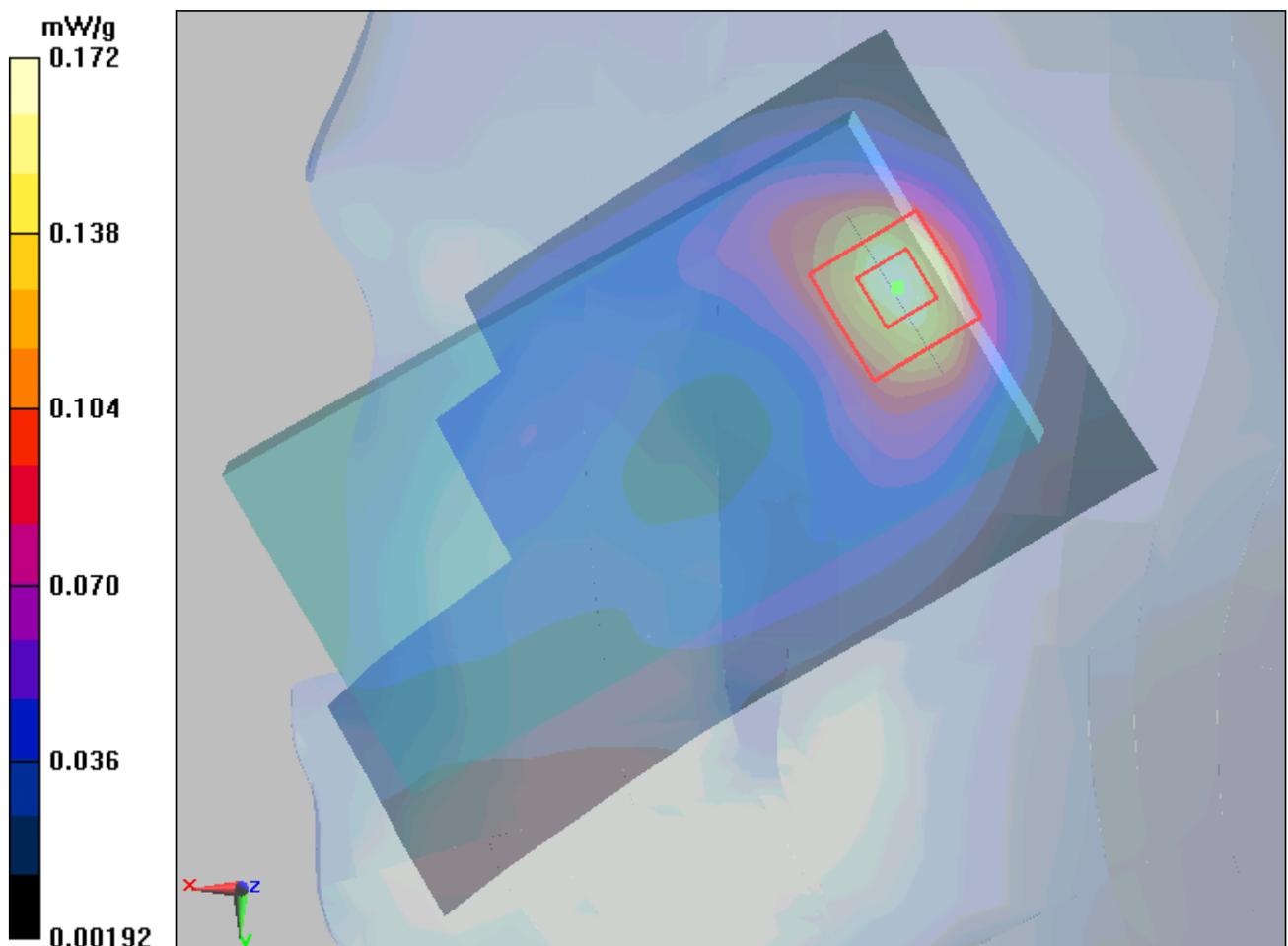


Figure 44 CDMA PCS Right Hand Tilt 15° Channel 600

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CDMA PCS Left Cheek Middle (SN: MAIC702X03600810)

Date/Time: 10/9/2012 6:40:48 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.547 mW/g

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

Reference Value = 7.27 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.727 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.287 mW/g

Maximum value of SAR (measured) = 0.512 mW/g

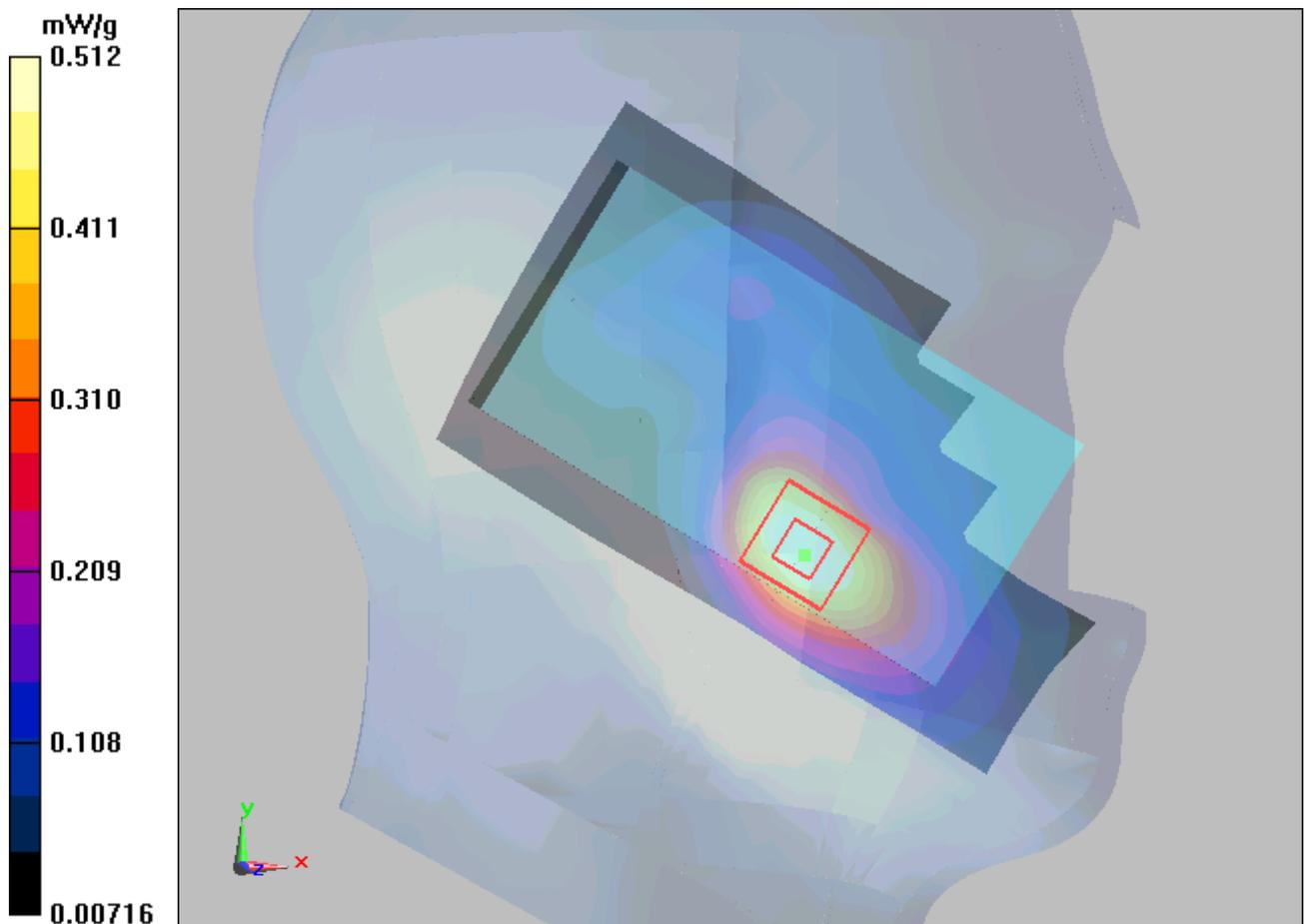


Figure 45 CDMA PCS Left Hand Touch Cheek Channel 600

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CDMA PCS Back Side Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 5:42:54 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.820 mW/g

Back Side Middle/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.997 W/kg

SAR(1 g) = 0.592 mW/g; SAR(10 g) = 0.357 mW/g

Maximum value of SAR (measured) = 0.678 mW/g

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

Reference Value = 10.2 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.758 mW/g; SAR(10 g) = 0.430 mW/g

Maximum value of SAR (measured) = 0.843 mW/g

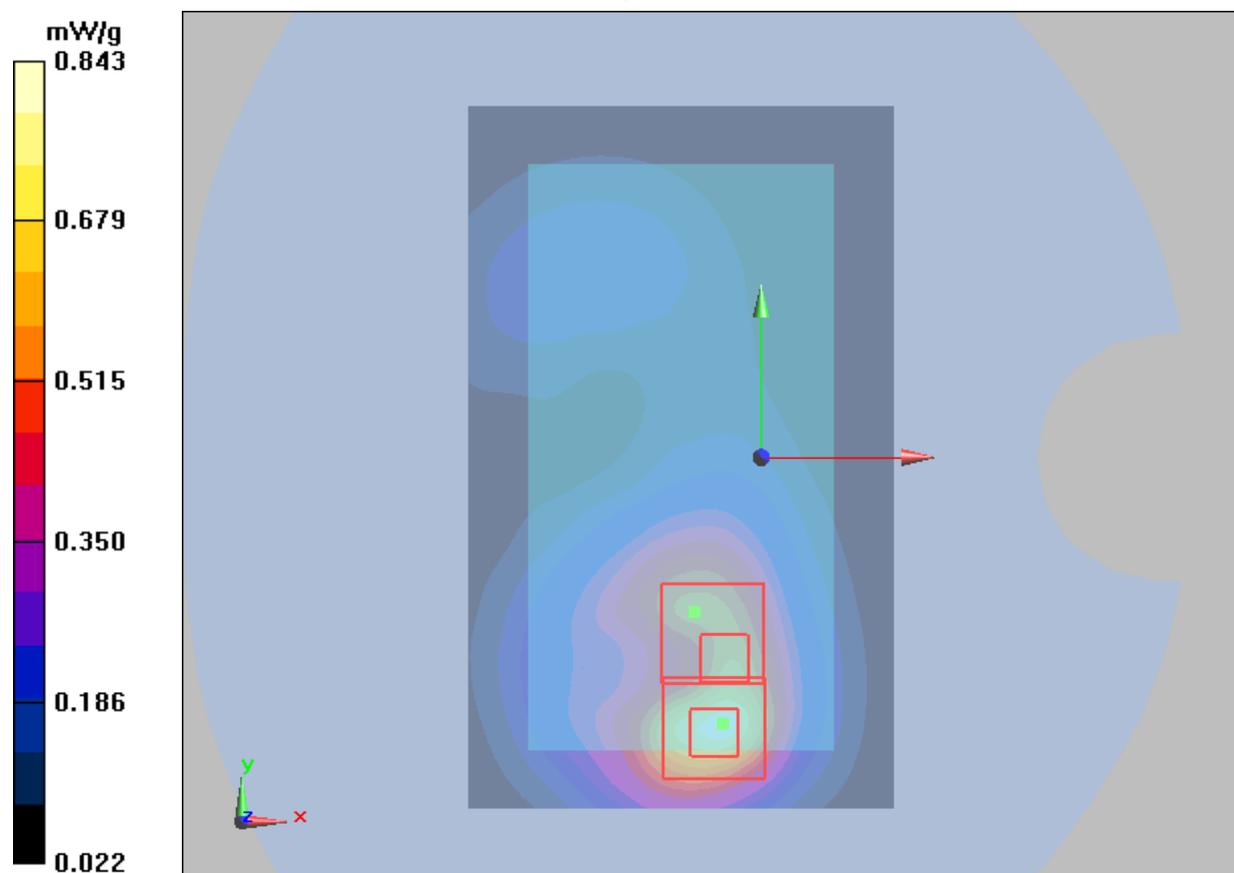


Figure 46 Body, CDMA PCS Back Side Channel 600

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Front Side Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 5:59:44 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.592 mW/g

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

Reference Value = 6.45 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.934 W/kg

SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.327 mW/g

Maximum value of SAR (measured) = 0.625 mW/g

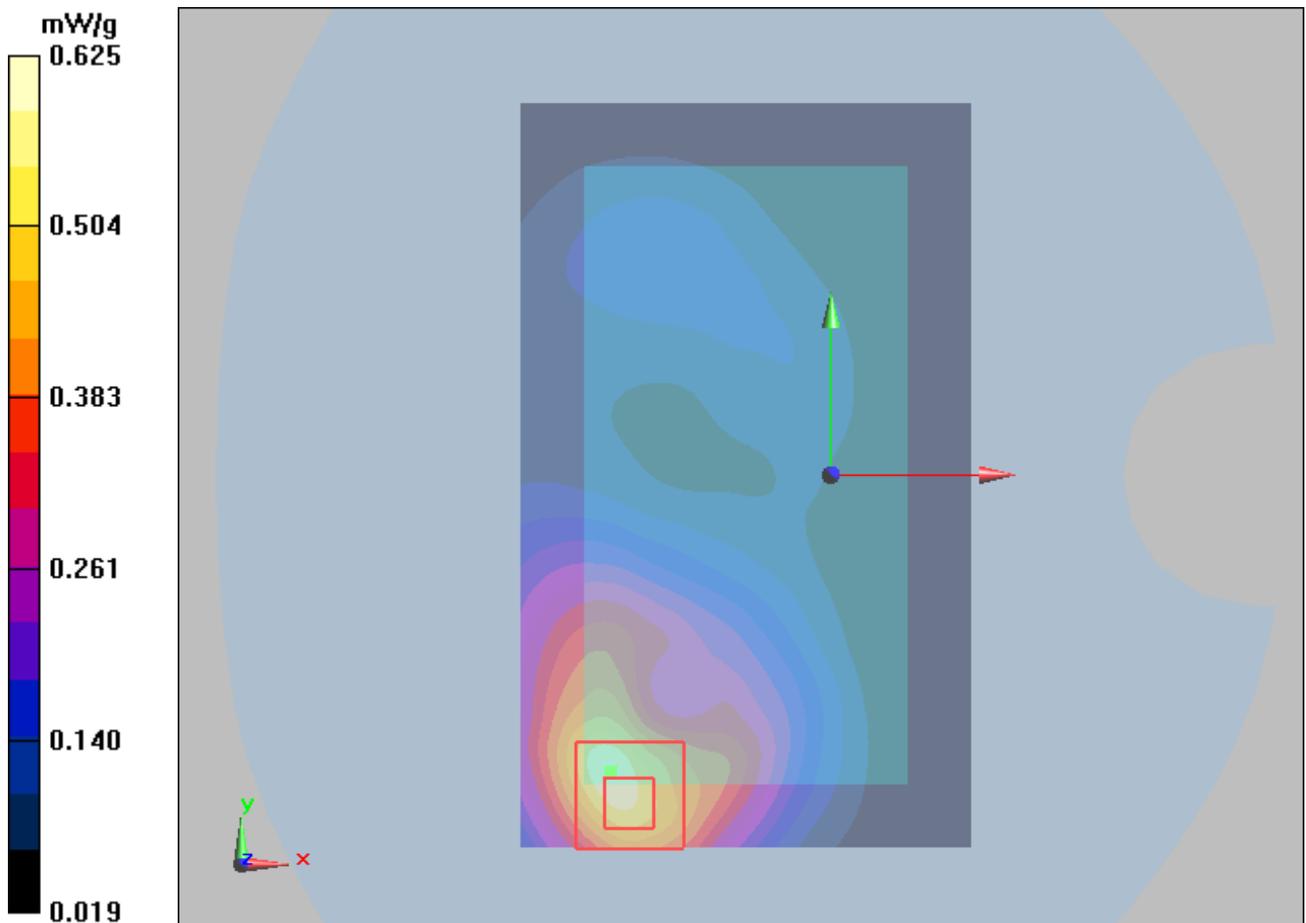


Figure 47 Body, CDMA PCS Front Side Channel 600

TA Technology (Shanghai) Co., Ltd.
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CDMA PCS Left Edge Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 6:18:15 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Left Edge Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.247 mW/g

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

Reference Value = 9.69 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.249 mW/g

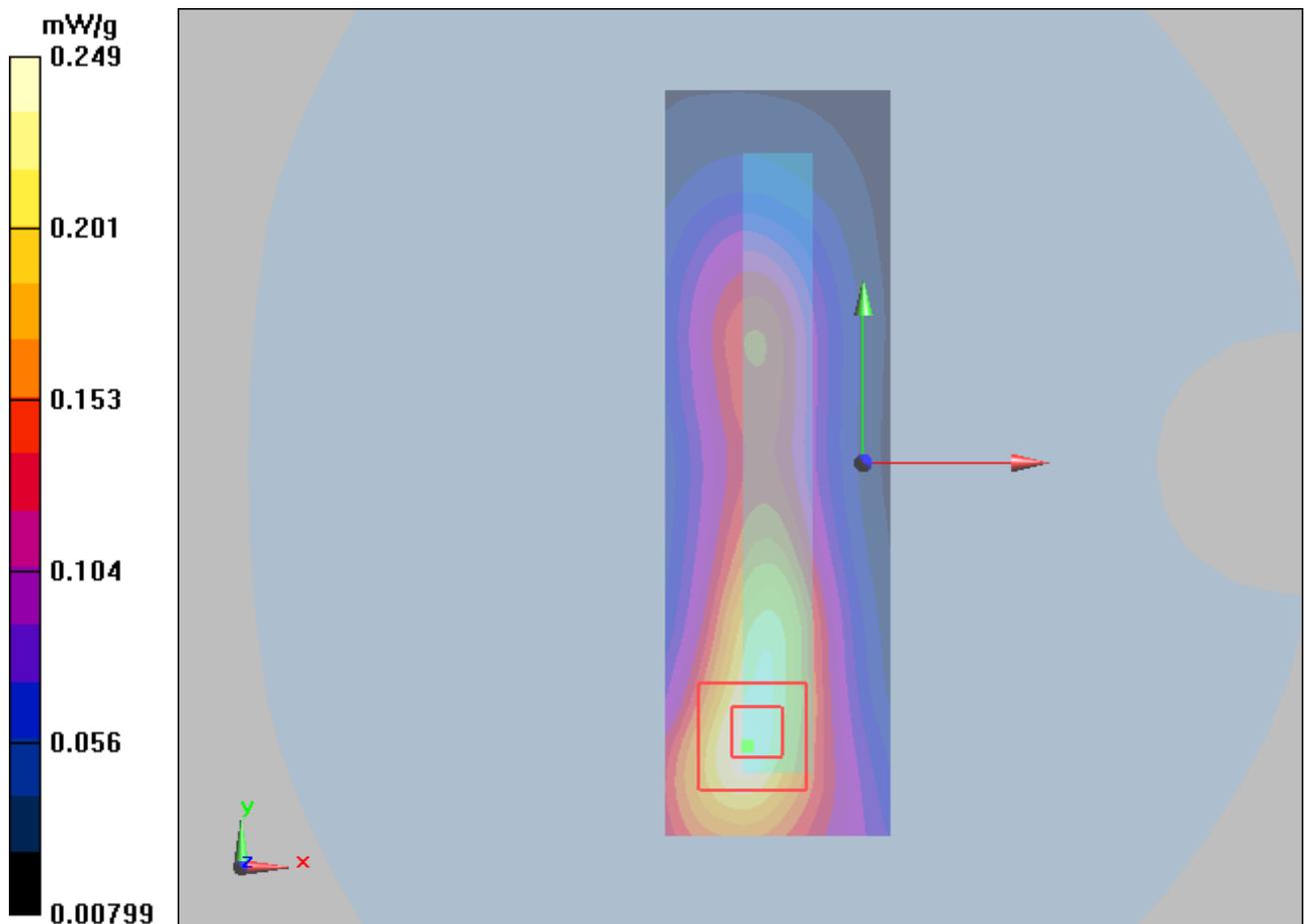


Figure 48 Body, CDMA PCS Left Edge Channel 600

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Right Edge Middle (SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 10/11/2012 6:34:50 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Edge Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.060 mW/g

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

Reference Value = 3.61 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.085 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.059 mW/g

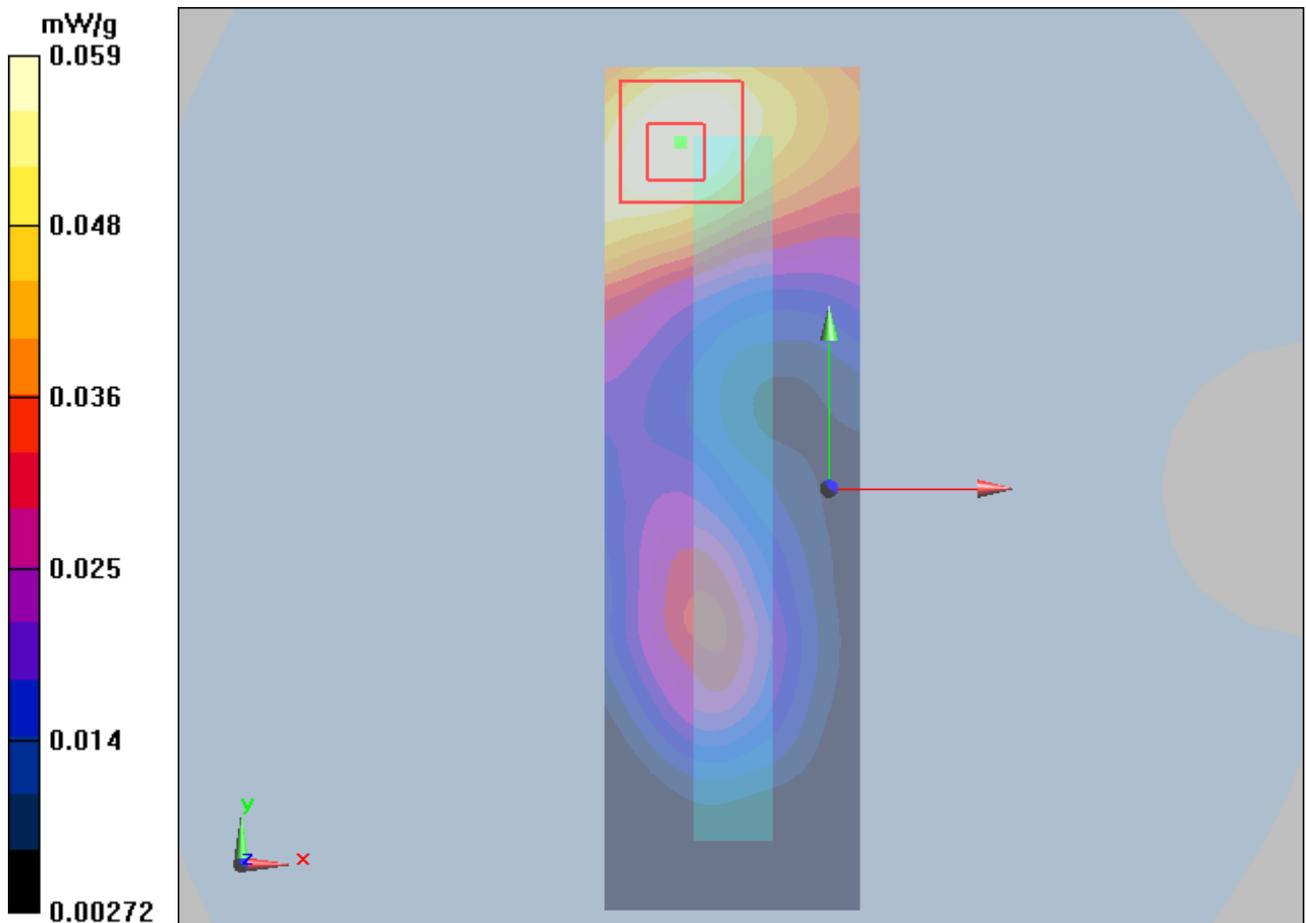


Figure 49 Body, CDMA PCS Right Edge Channel 600

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CDMA PCS Bottom Edge High (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 6:50:21 PM

Communication System: CDMA ; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Edge High/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.27 mW/g

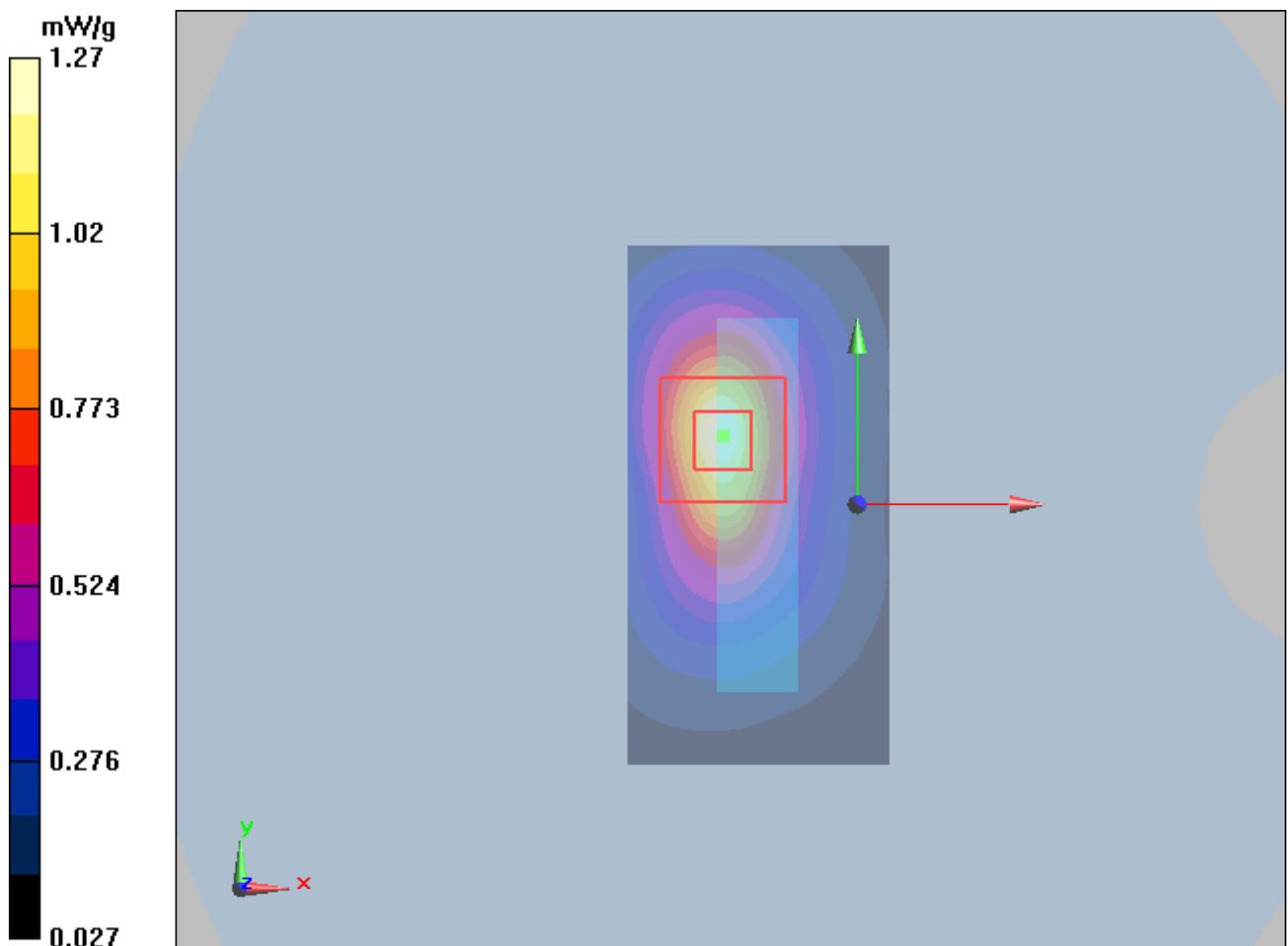
Bottom Edge High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.00879 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.611 mW/g

Maximum value of SAR (measured) = 1.27 mW/g



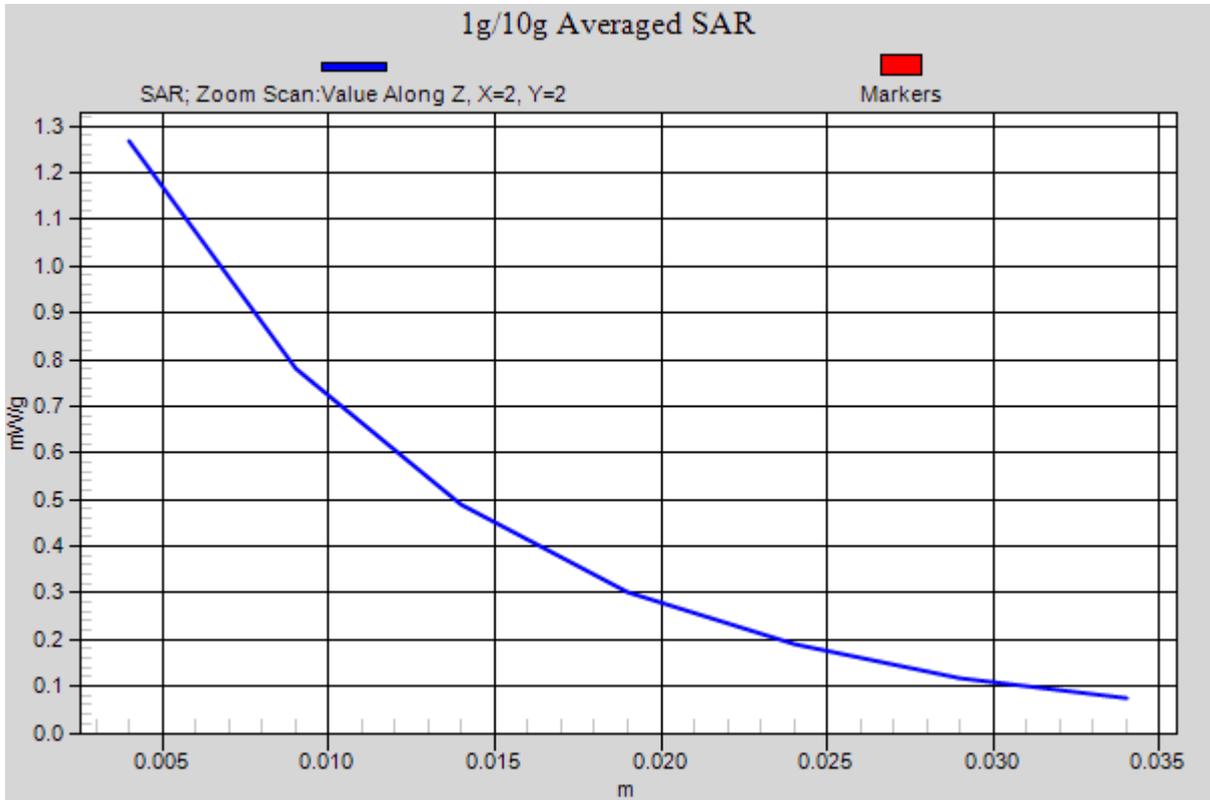


Figure 50 Body, CDMA PCS Bottom Edge Channel 1175

CDMA PCS Bottom Edge Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 7:07:37 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Edge Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.24 mW/g

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

Reference Value = 25.1 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.603 mW/g

Maximum value of SAR (measured) = 1.22 mW/g

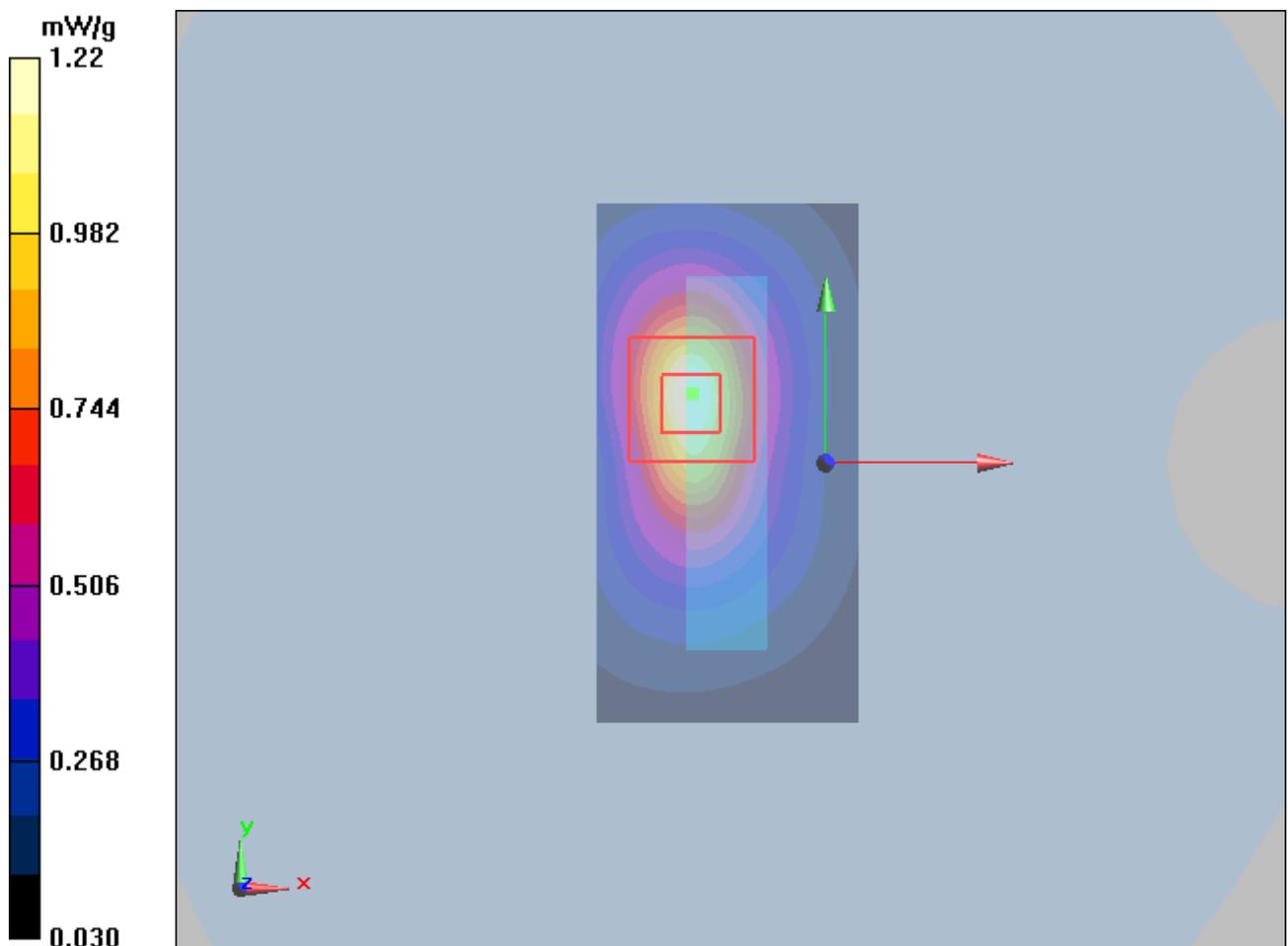


Figure 51 Body, CDMA PCS Bottom Edge Channel 600

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Bottom Edge Low (SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 10/11/2012 7:23:49 PM

Communication System: CDMA ; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Edge Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.02 mW/g

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

Reference Value = 23.1 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.926 mW/g; SAR(10 g) = 0.509 mW/g

Maximum value of SAR (measured) = 1.04 mW/g

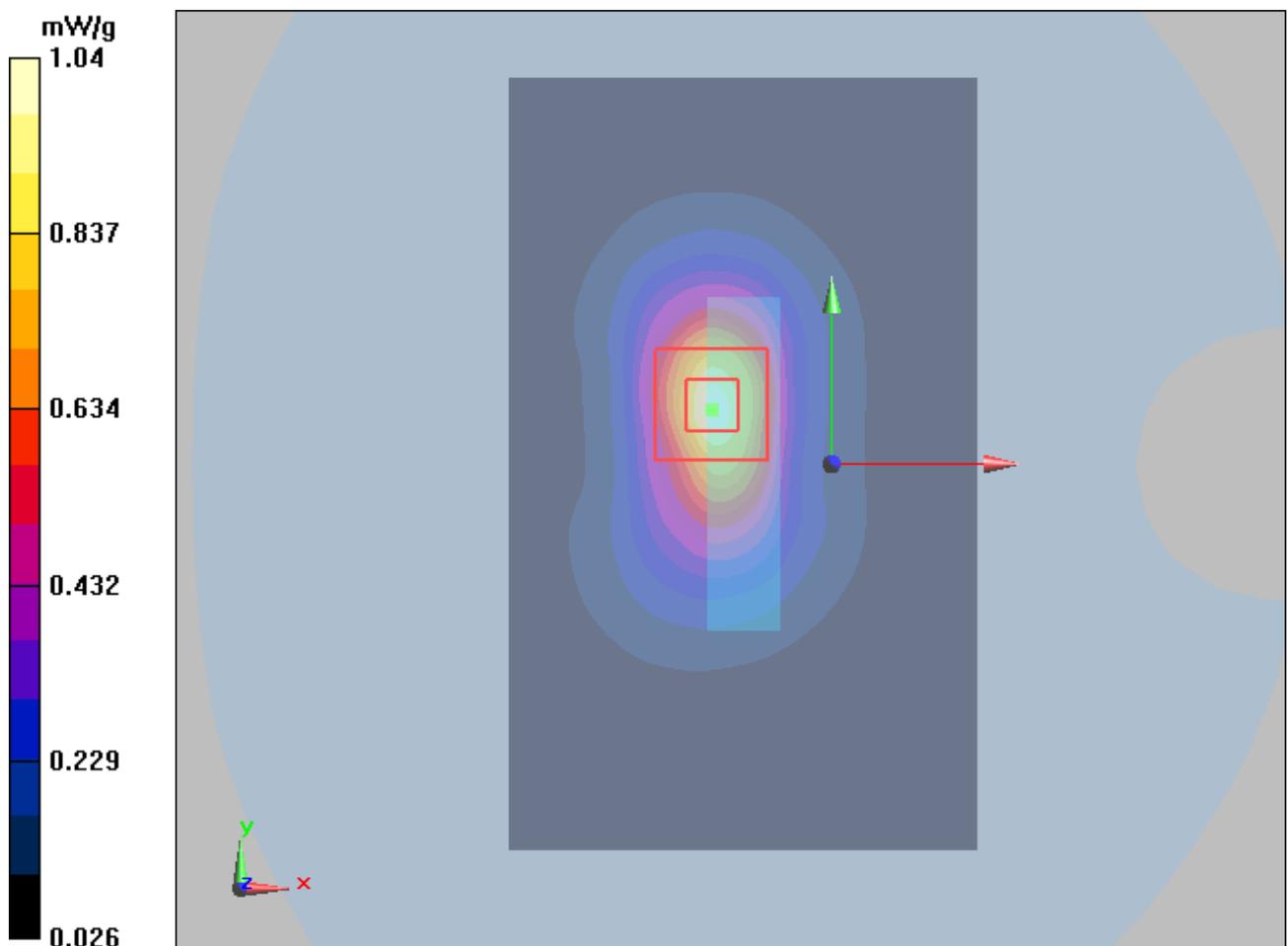


Figure 52 Body, CDMA PCS Bottom Edge Channel 25

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Bottom Edge High (SN: MAIC702X03600810, Distance 10mm)

Date/Time: 10/11/2012 7:58:57 PM

Communication System: CDMA ; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Edge High/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.985 mW/g

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

Reference Value = 23.4 V/m; Power Drift = 0.098 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.893 mW/g; SAR(10 g) = 0.473 mW/g

Maximum value of SAR (measured) = 0.994 mW/g

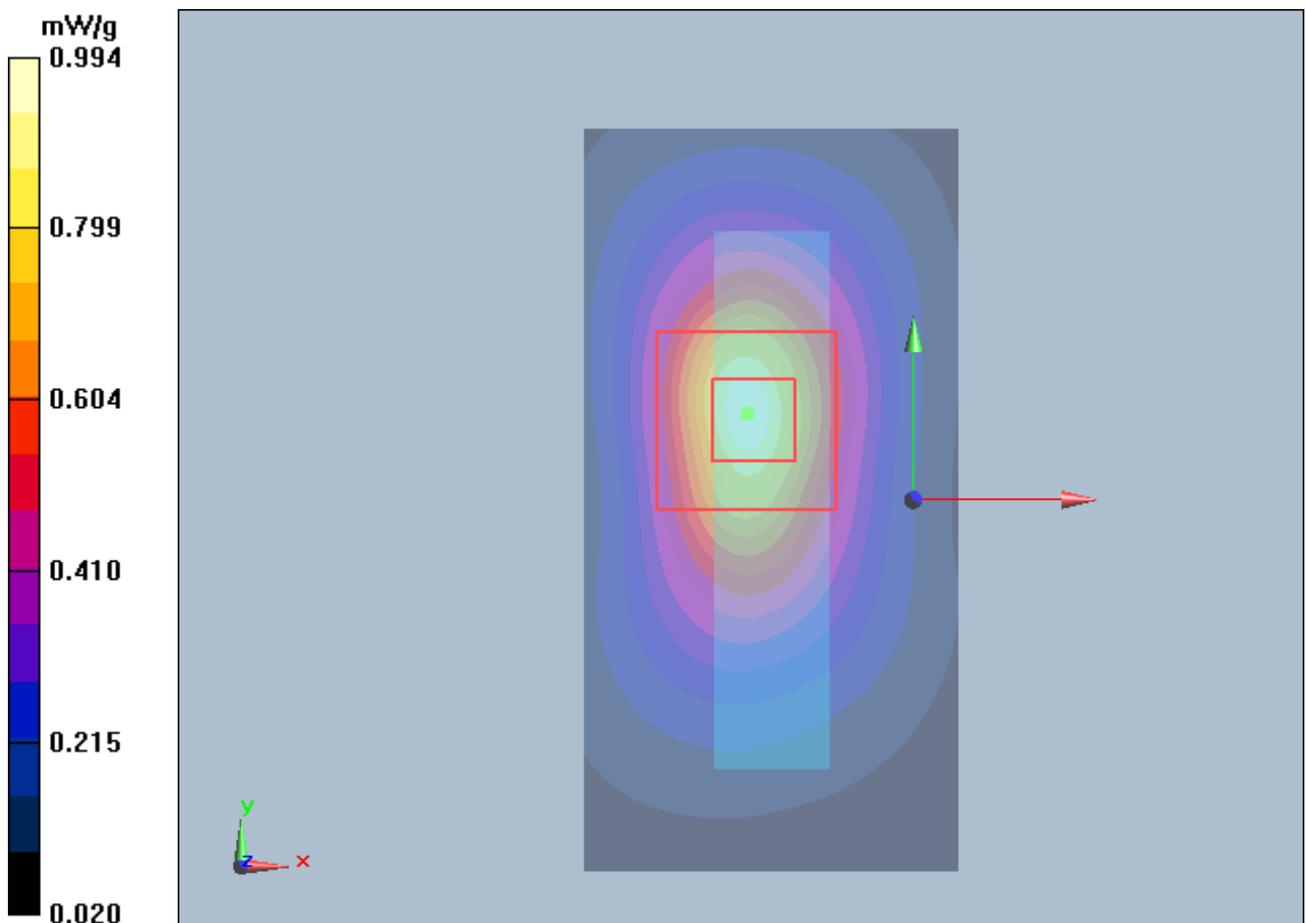


Figure 53 Body, CDMA PCS Bottom Edge Channel 1175

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CDMA PCS Back Side Middle (SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/11/2012 8:16:25 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.484 mW/g

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

Reference Value = 6.89 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.257 mW/g

Maximum value of SAR (measured) = 0.469 mW/g

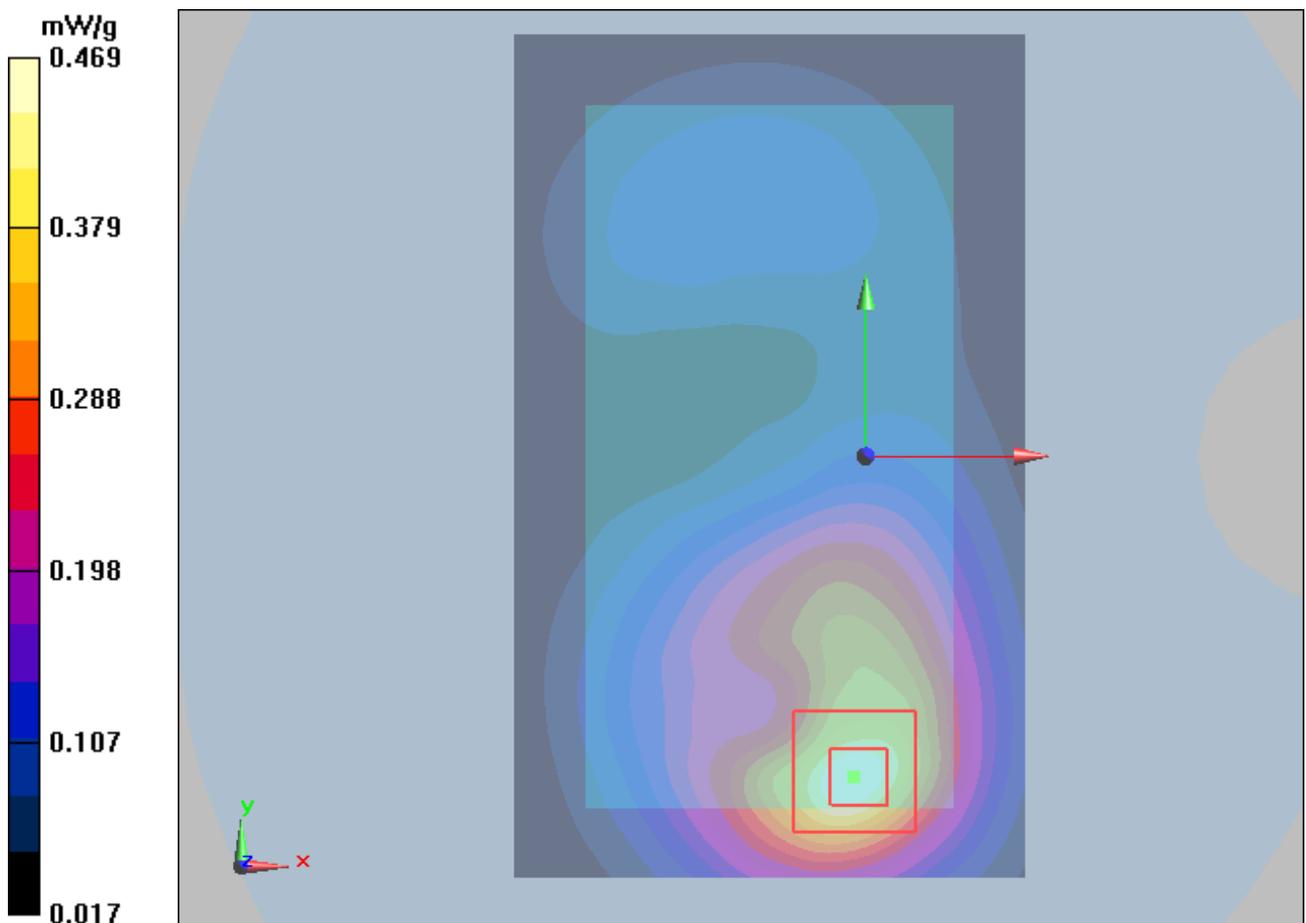


Figure 54 Body, CDMA PCS Back Side Channel 600

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CDMA PCS Front Side Middle (SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/11/2012 8:32:00 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.344 mW/g

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

Reference Value = 5.28 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.537 W/kg

SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.202 mW/g

Maximum value of SAR (measured) = 0.356 mW/g

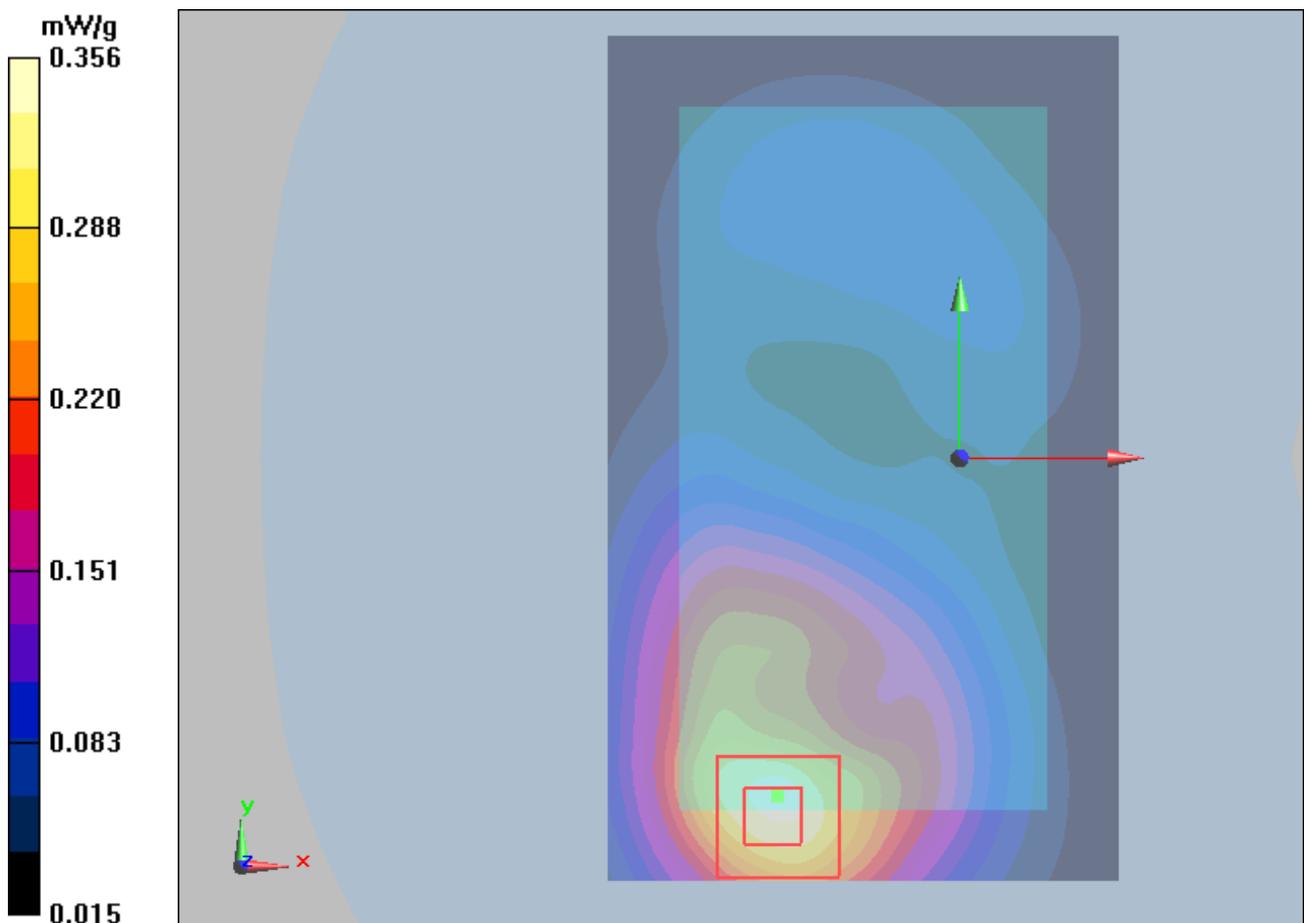


Figure 55 Body, CDMA PCS Front Side Channel 600

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Test Report

CDMA PCS with Earphone Back Side Middle (SN: UWDC320XBG01407, Distance 15mm)

Date/Time: 10/11/2012 8:48:03 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.501 mW/g

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

Reference Value = 6.62 V/m; Power Drift = 0.171 dB

Peak SAR (extrapolated) = 0.692 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 0.472 mW/g

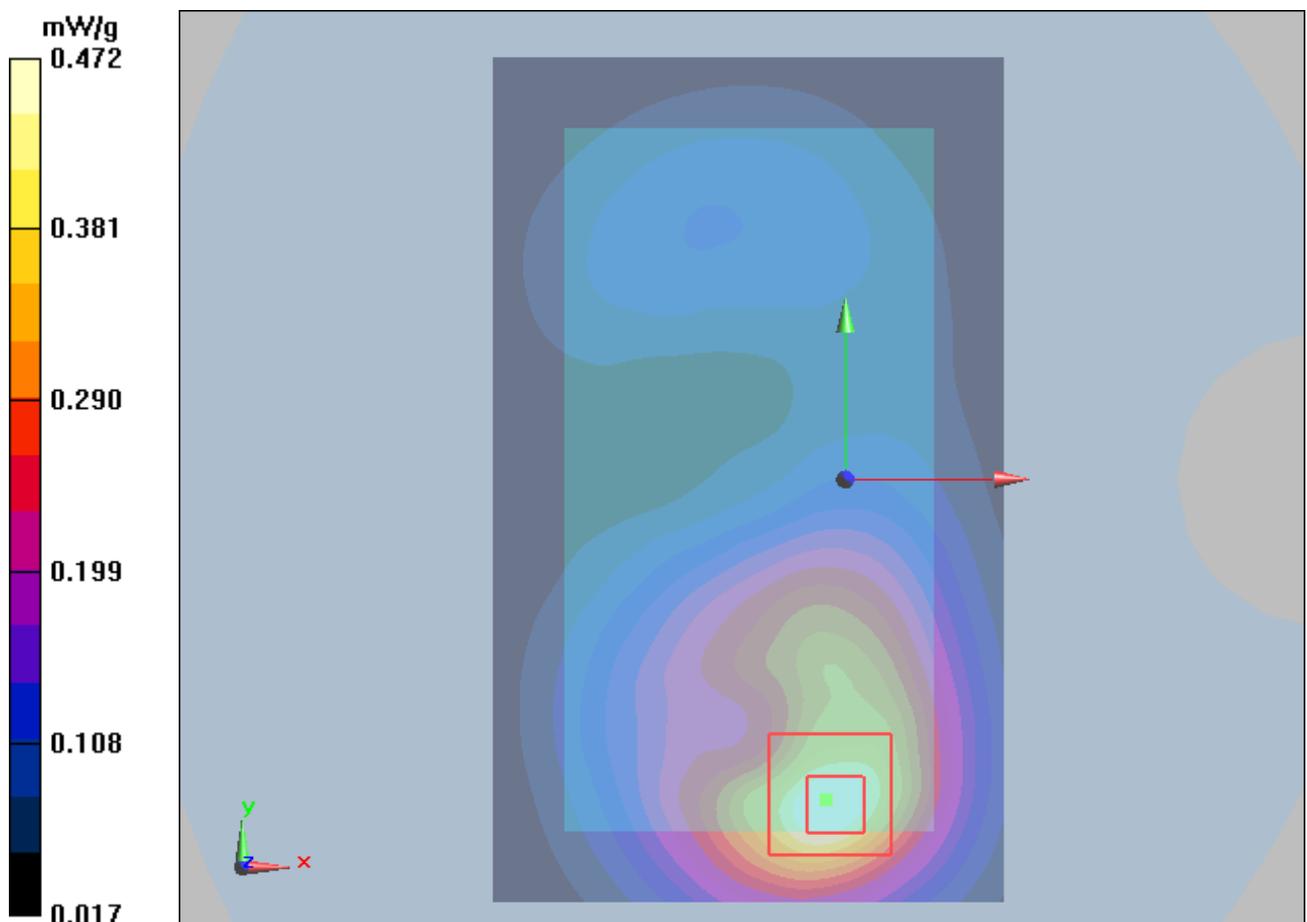


Figure 56 Body, CDMA PCS with Earphone Back Side Channel 600

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Back Side Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/27/2012 4:03:39 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.066 mW/g

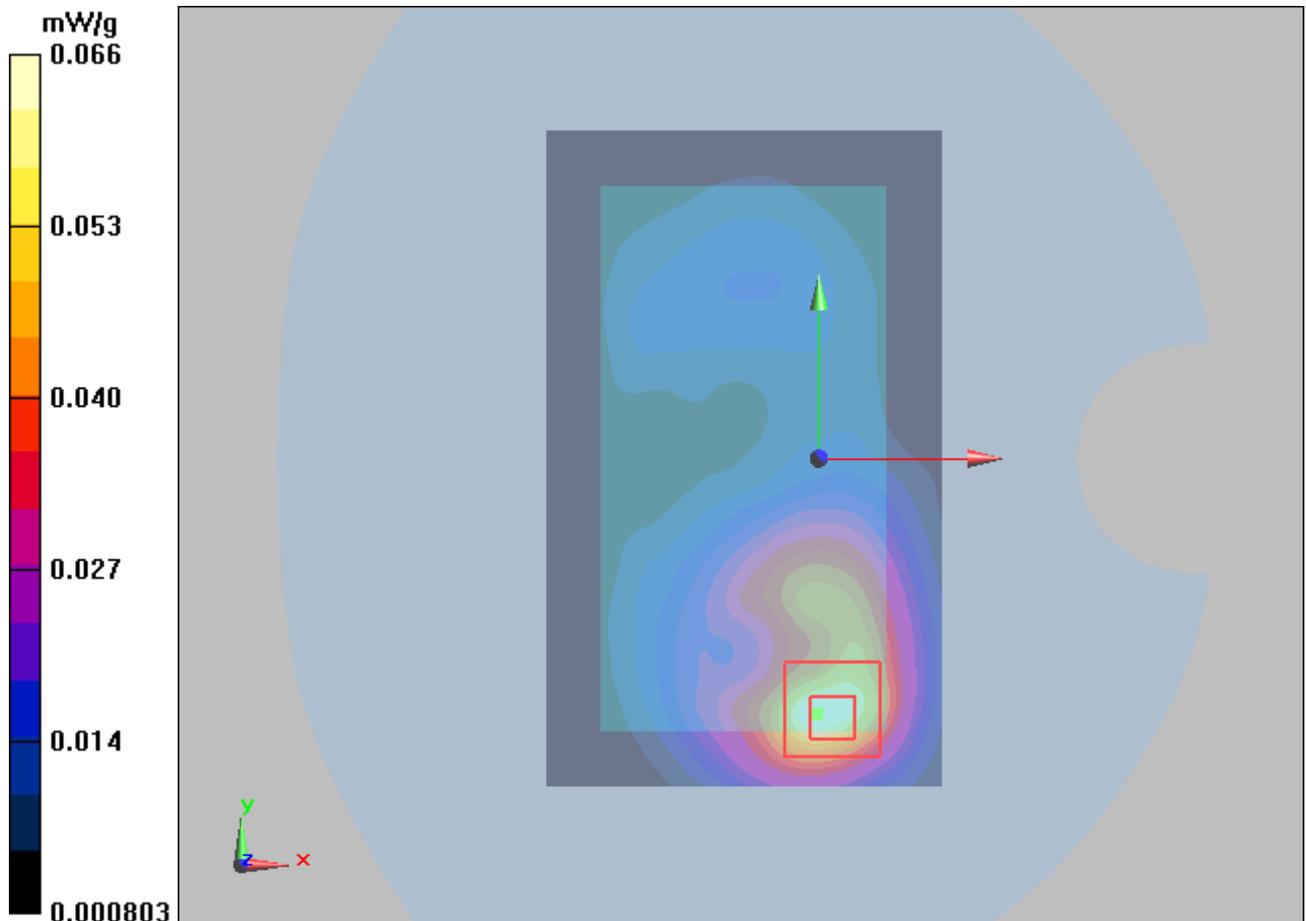
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.05 V/m; Power Drift = 0.122 dB

Peak SAR (extrapolated) = 0.098 W/kg

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.066 mW/g



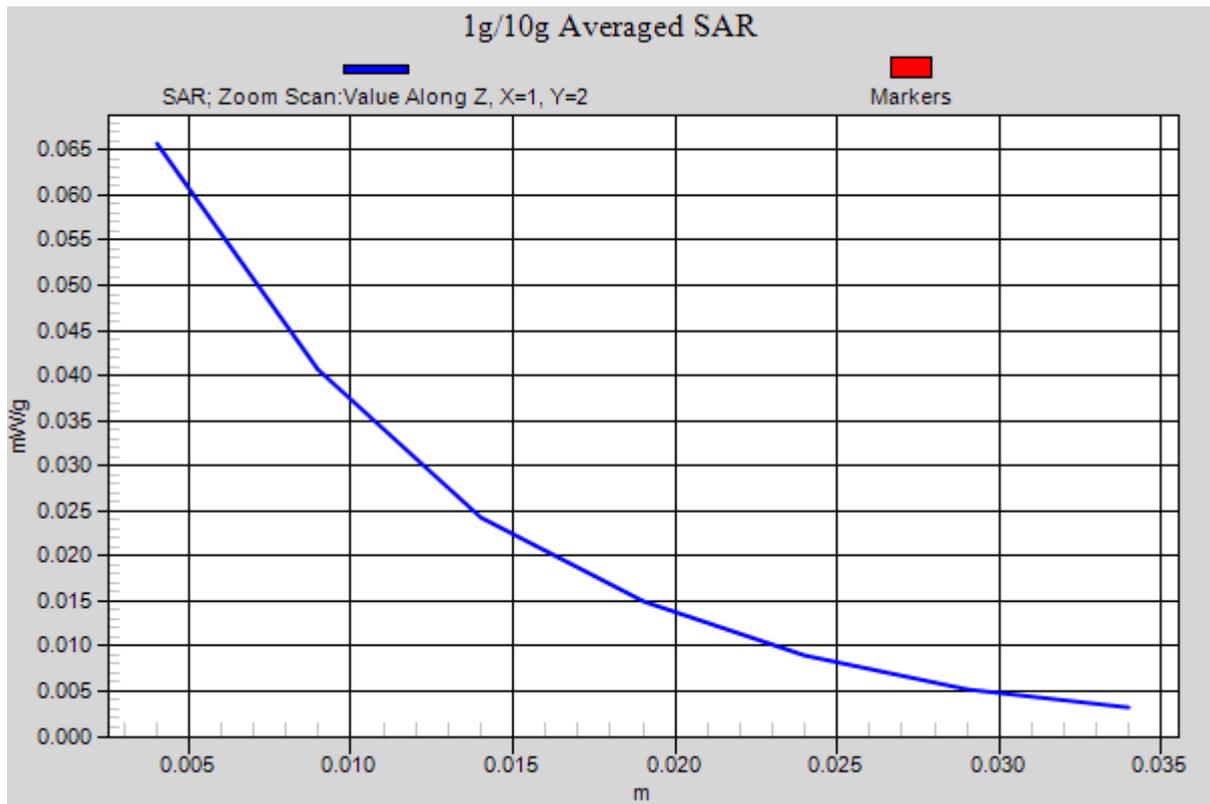


Figure 57 Body, CDMA PCS Back Side Channel 600

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Front Side Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/27/2012 4:36:44 AM

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

Medium parameters used: f = 1880 MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.050 mW/g

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

Reference Value = 2.06 V/m; Power Drift = 0.089 dB

Peak SAR (extrapolated) = 0.070 W/kg

SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.048 mW/g

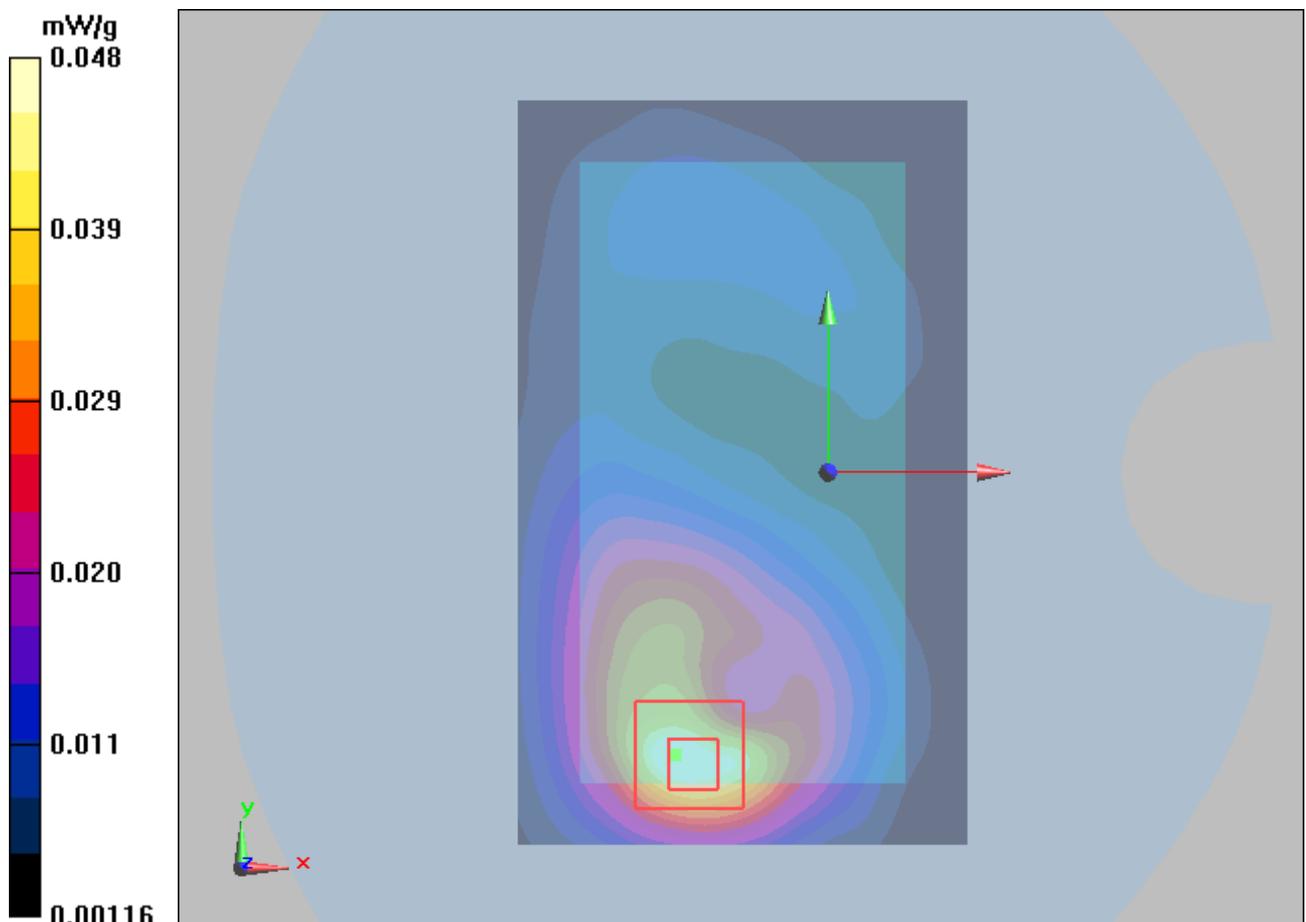


Figure 58 Body, CDMA PCS Front Side Channel 600

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CDMA PCS Left Edge Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/27/2012 4:59:16 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Left Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.014 mW/g

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

Reference Value = 1.99 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.009 mW/g

Maximum value of SAR (measured) = 0.015 mW/g

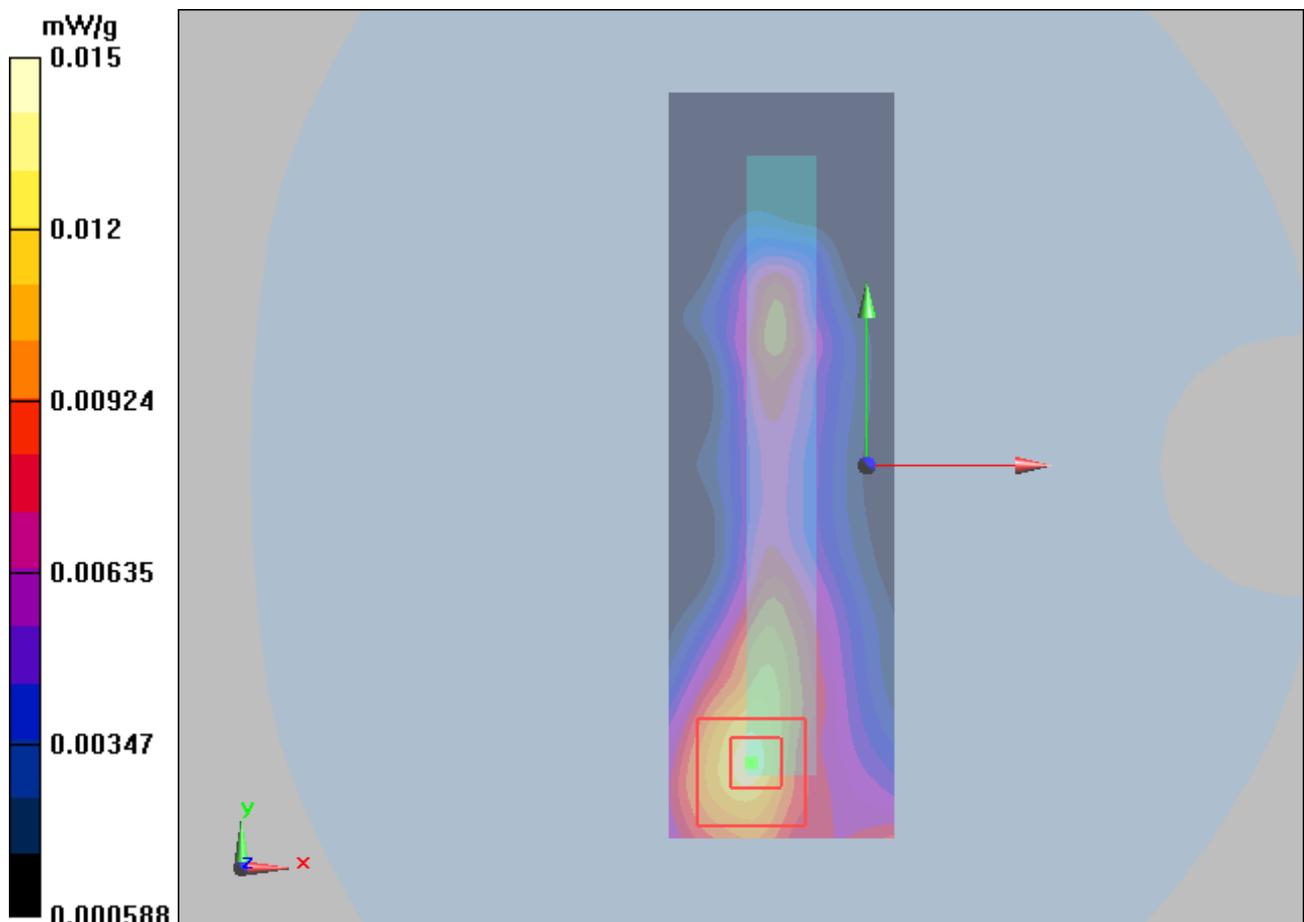


Figure 59 Body, CDMA PCS Left Edge Channel 600

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Right Edge Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/27/2012 5:24:53 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.00809 mW/g

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

Reference Value = 0.449 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.00945 W/kg

SAR(1 g) = 0.006 mW/g; SAR(10 g) = 0.003 mW/g

Maximum value of SAR (measured) = 0.00653 mW/g

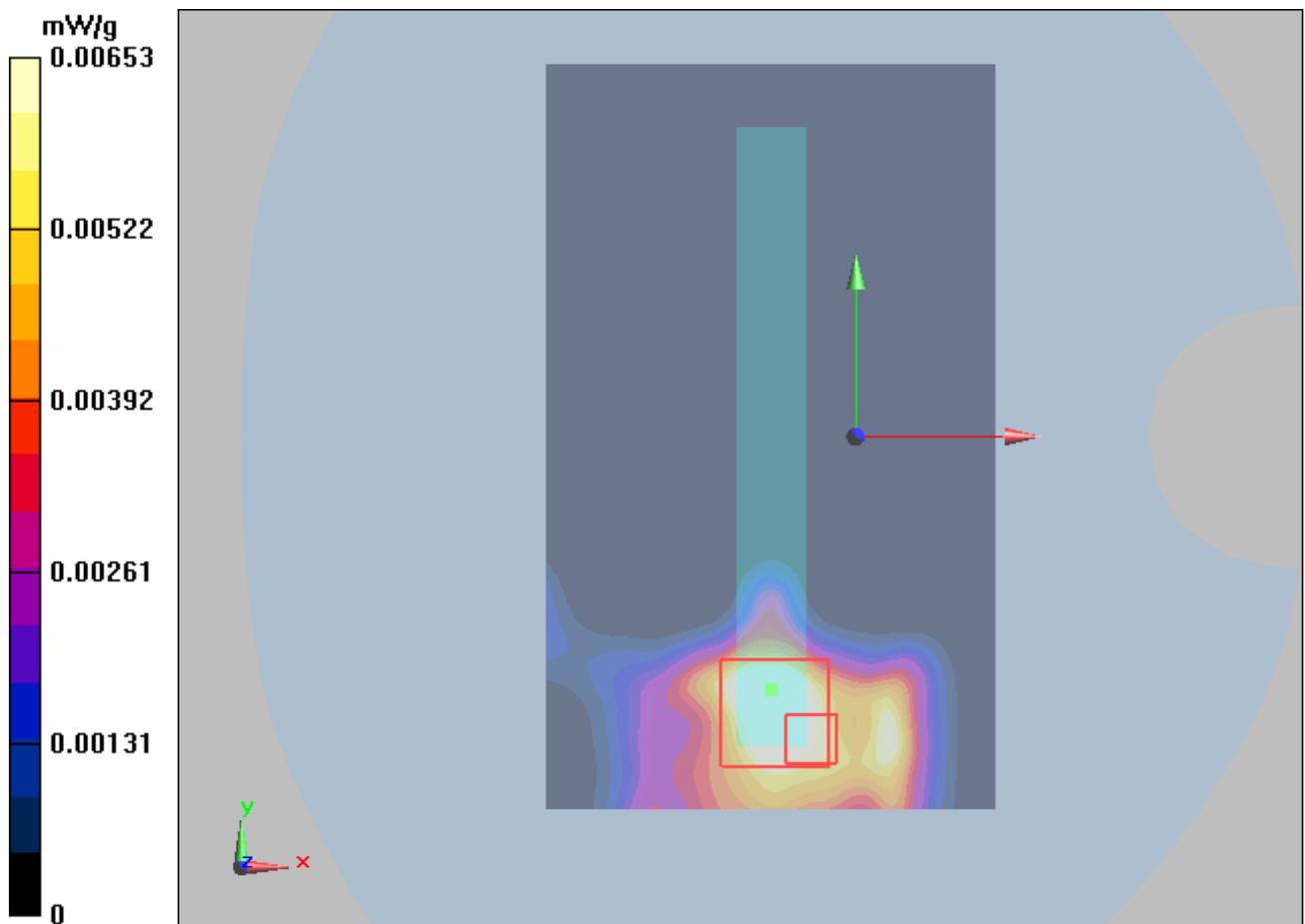


Figure 60 Body, CDMA PCS Right Edge Channel 600

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Bottom Edge Middle (SN: UWDC320XBG01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/27/2012 5:48:55 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Side Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.065 mW/g

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

Reference Value = 5.83 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.103 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.066 mW/g

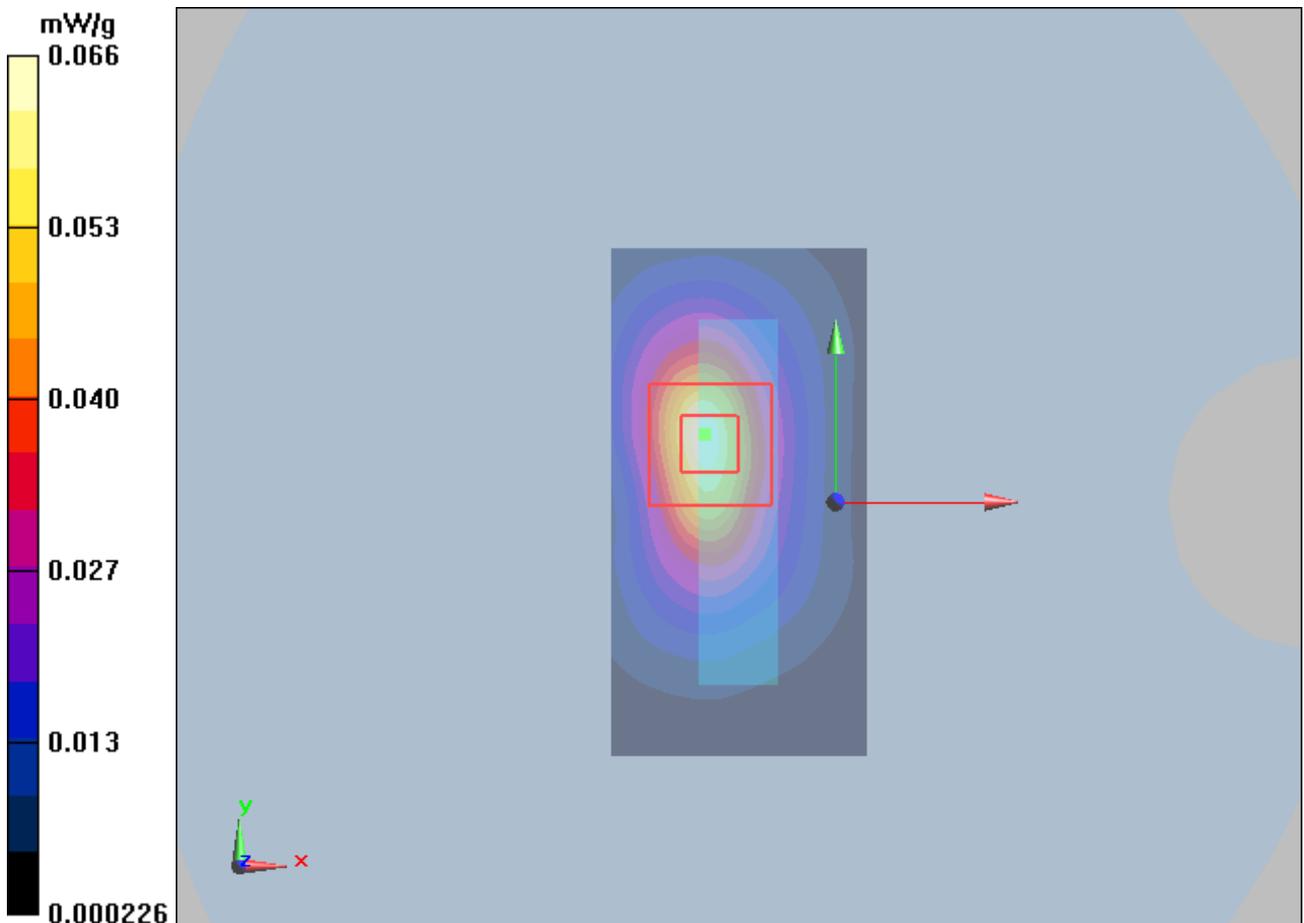


Figure 61 Body, CDMA PCS Bottom Edge Channel 600

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CDMA PCS with Earphone Bottom Edge Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/27/2012 6:21:14 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.062 mW/g

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

Reference Value = 1.91 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.092 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.060 mW/g

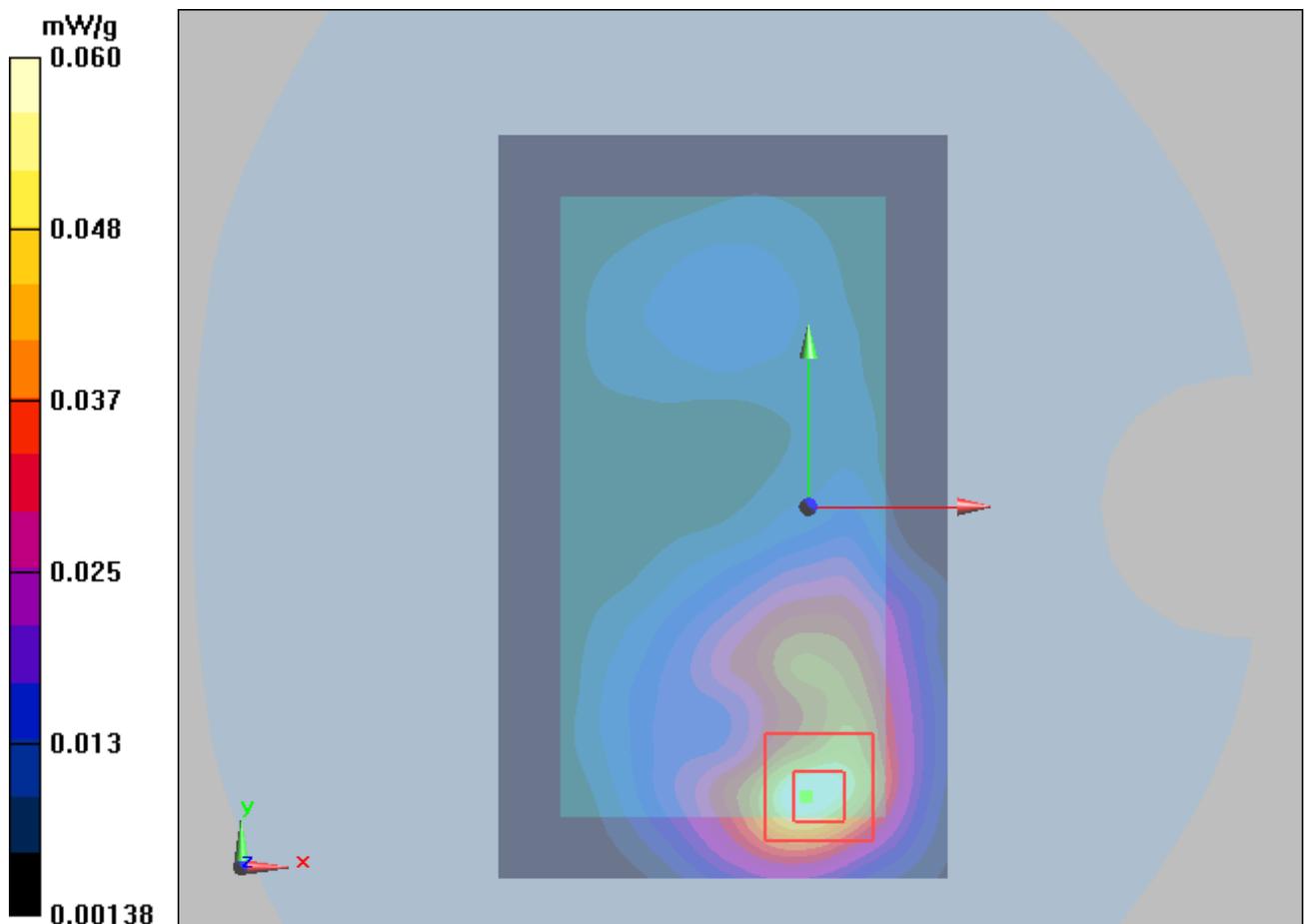


Figure 62 Body, CDMA PCS Bottom Edge Channel 600

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA PCS Bottom Edge Middle (SN: MAIC702X03600810, P=14.5dBm, Distance 10mm)

Date/Time: 11/27/2012 6:07:50 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.056 mW/g

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

Reference Value = 2.2 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 0.086 W/kg

SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.059 mW/g

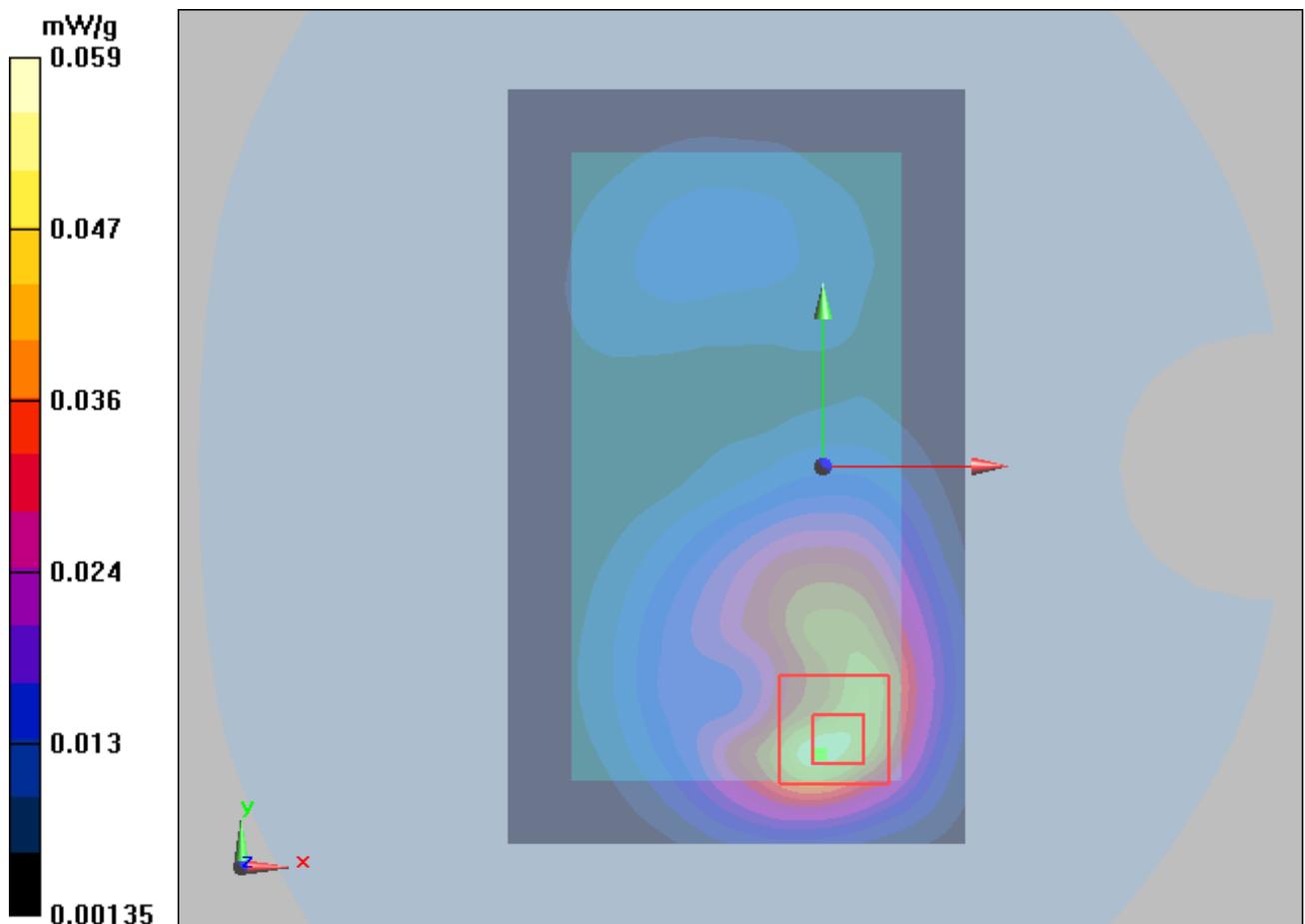


Figure 63 Body, CDMA PCS Bottom Edge Channel 600

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CDMA AWS Left Cheek Middle (SN: UWDC320XBGN01407)

Date/Time: 10/13/2012 6:15:40 PM

Communication System: CDMA ; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.769 mW/g

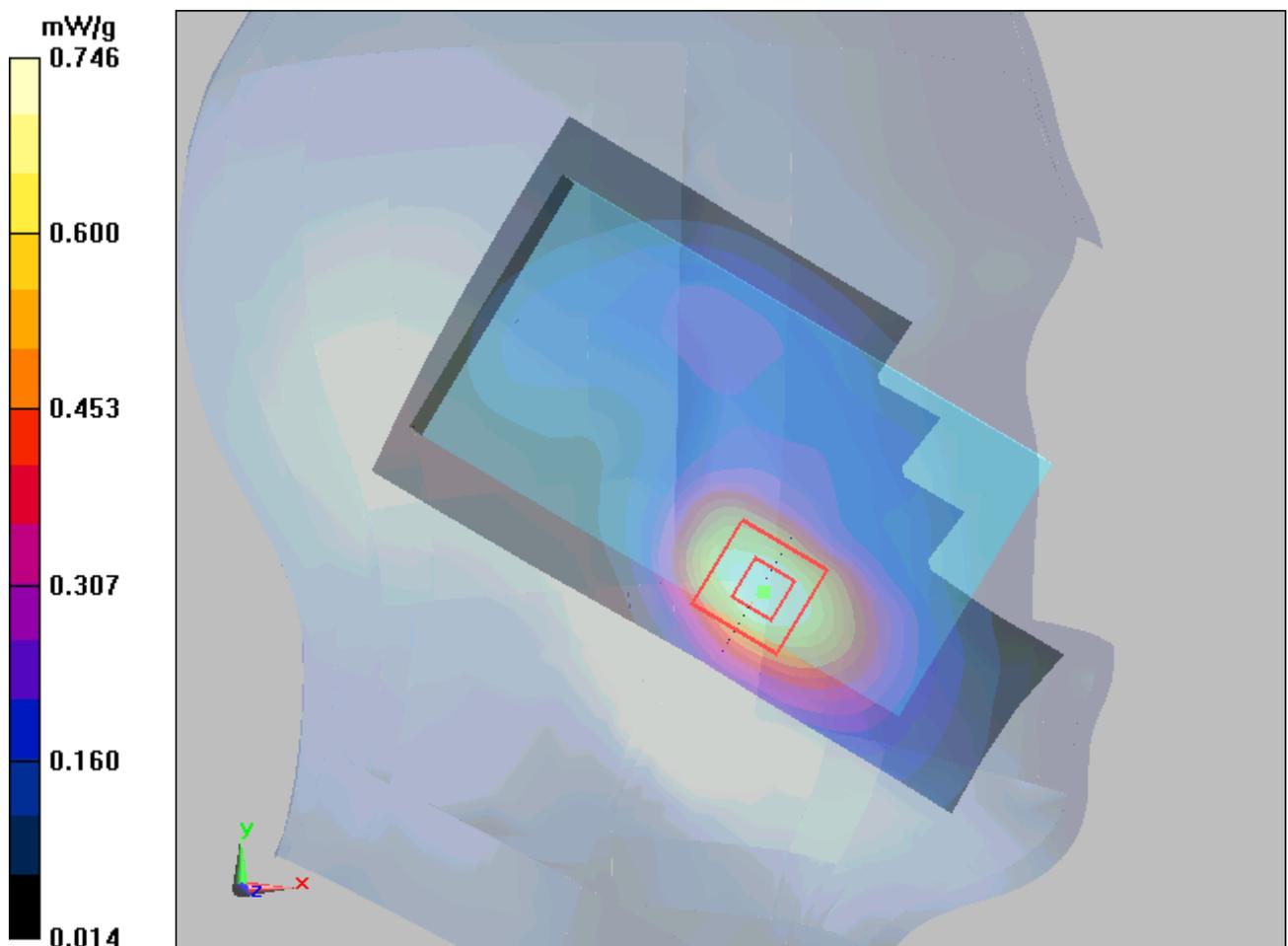
Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = 0.149 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.416 mW/g

Maximum value of SAR (measured) = 0.746 mW/g



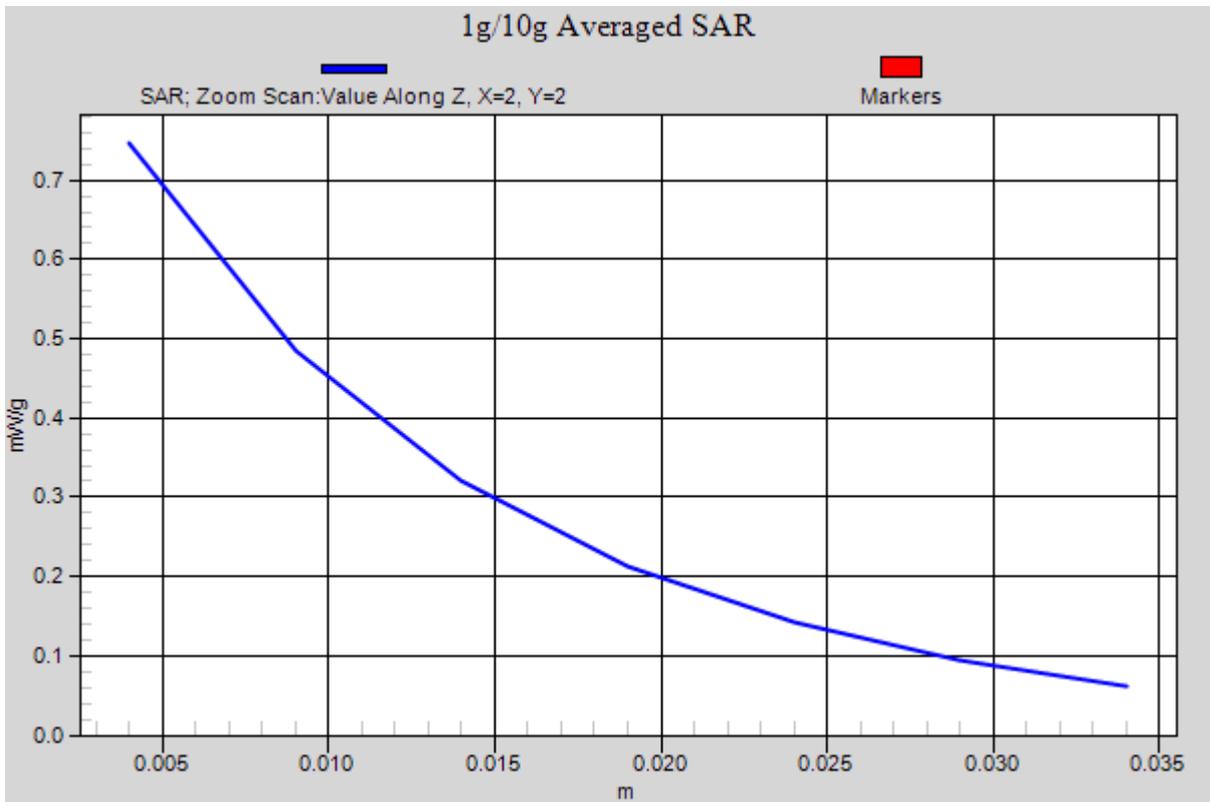


Figure 64 CDMA AWS Left Hand Touch Cheek Channel 450

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CDMA AWS Left Tilt Middle (SN: UWDC320XBGN01407)

Date/Time: 10/13/2012 6:30:06 PM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 15.3 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.318 mW/g

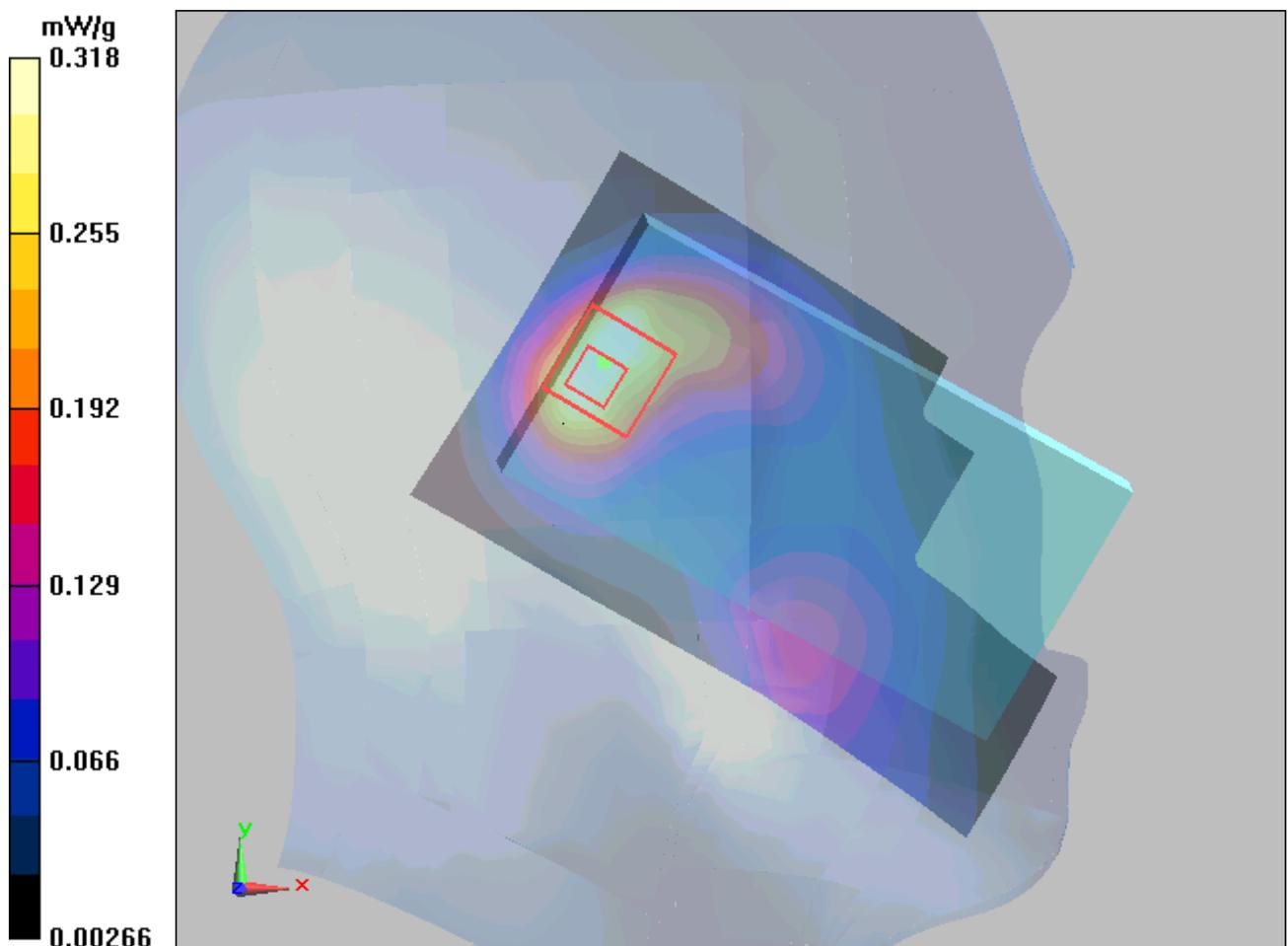


Figure 65 CDMA AWS Left Hand Tilt 15° Channel 450

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CDMA AWS Right Cheek Middle (SN: UWDC320XBGN01407)

Date/Time: 10/13/2012 6:45:21 PM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.400 mW/g

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

Reference Value = 11.1 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 0.540 W/kg

SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.234 mW/g

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

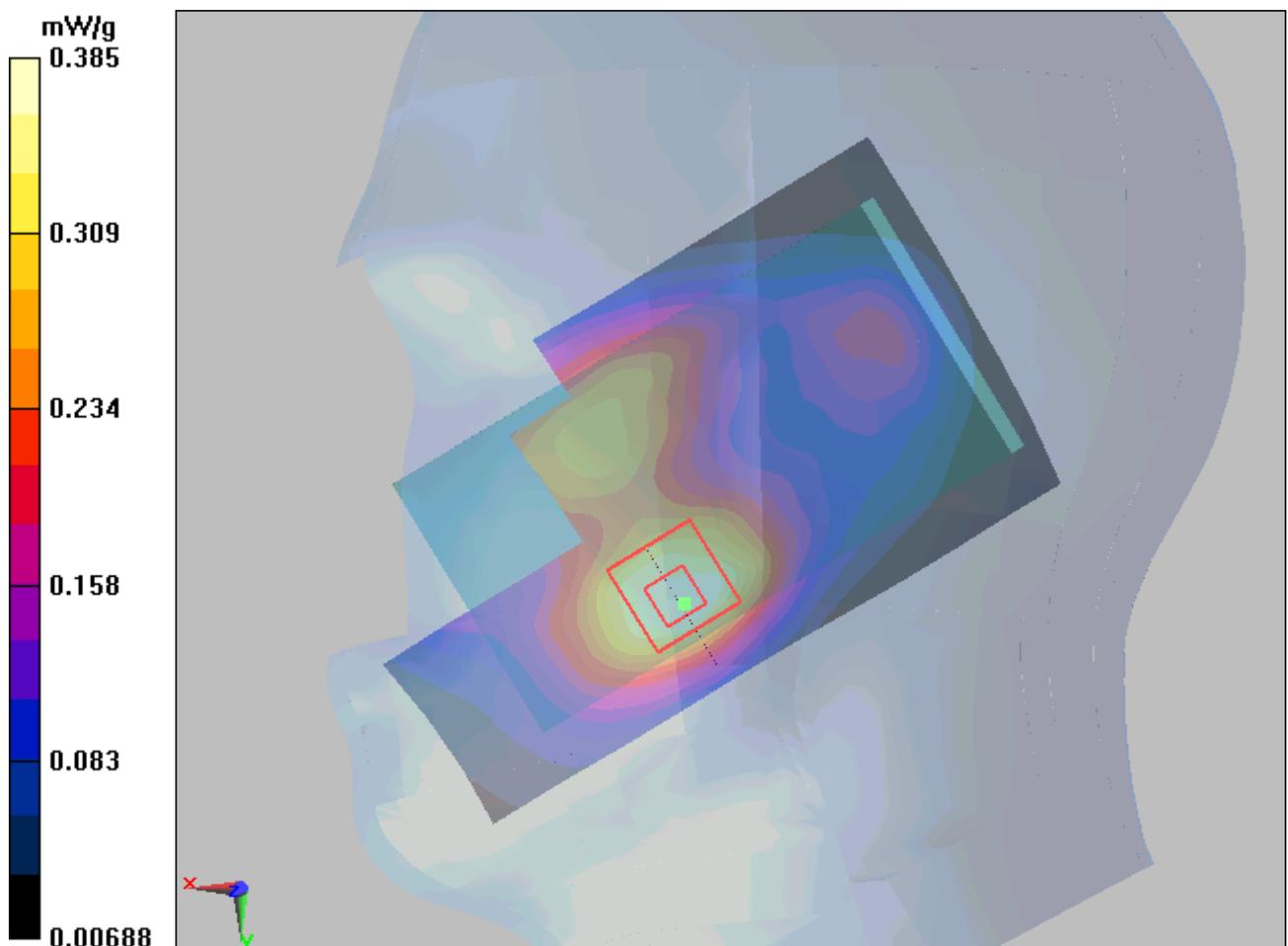


Figure 66 CDMA AWS Right Hand Touch Cheek Channel 450

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA AWS Right Tilt Middle (SN: UWDC320XBG01407)

Date/Time: 10/13/2012 7:00:10 PM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.300 mW/g

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

Reference Value = 14.8 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (measured) = 0.310 mW/g

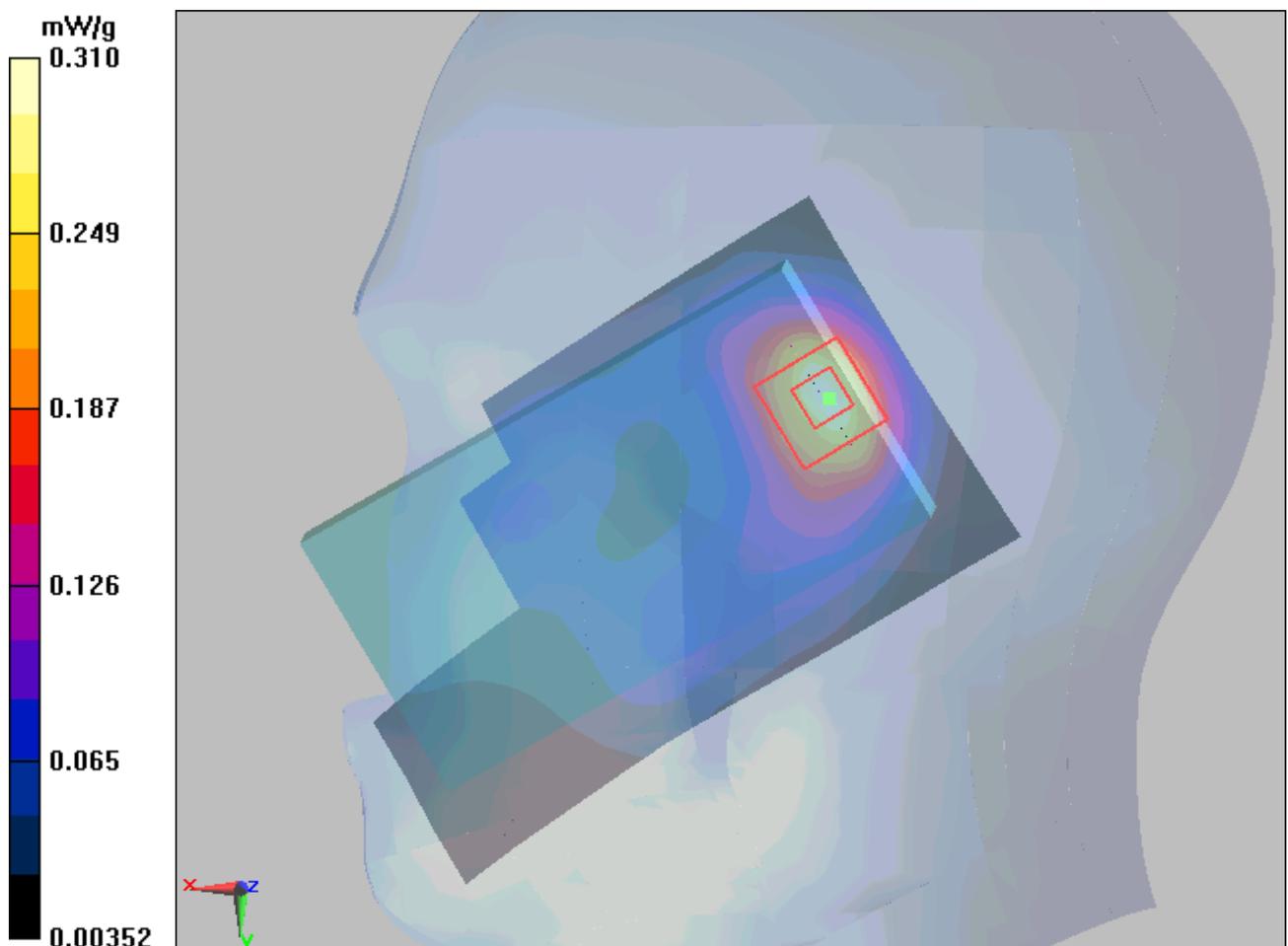


Figure 67 CDMA AWS Right Hand Tilt 15° Channel 450

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA AWS Left Cheek Middle (SN: MAIC702X03600810)

Date/Time: 10/13/2012 7:16:58 PM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.734 mW/g

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

Reference Value = 9.66 V/m; Power Drift = -0.187 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.674 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.733 mW/g

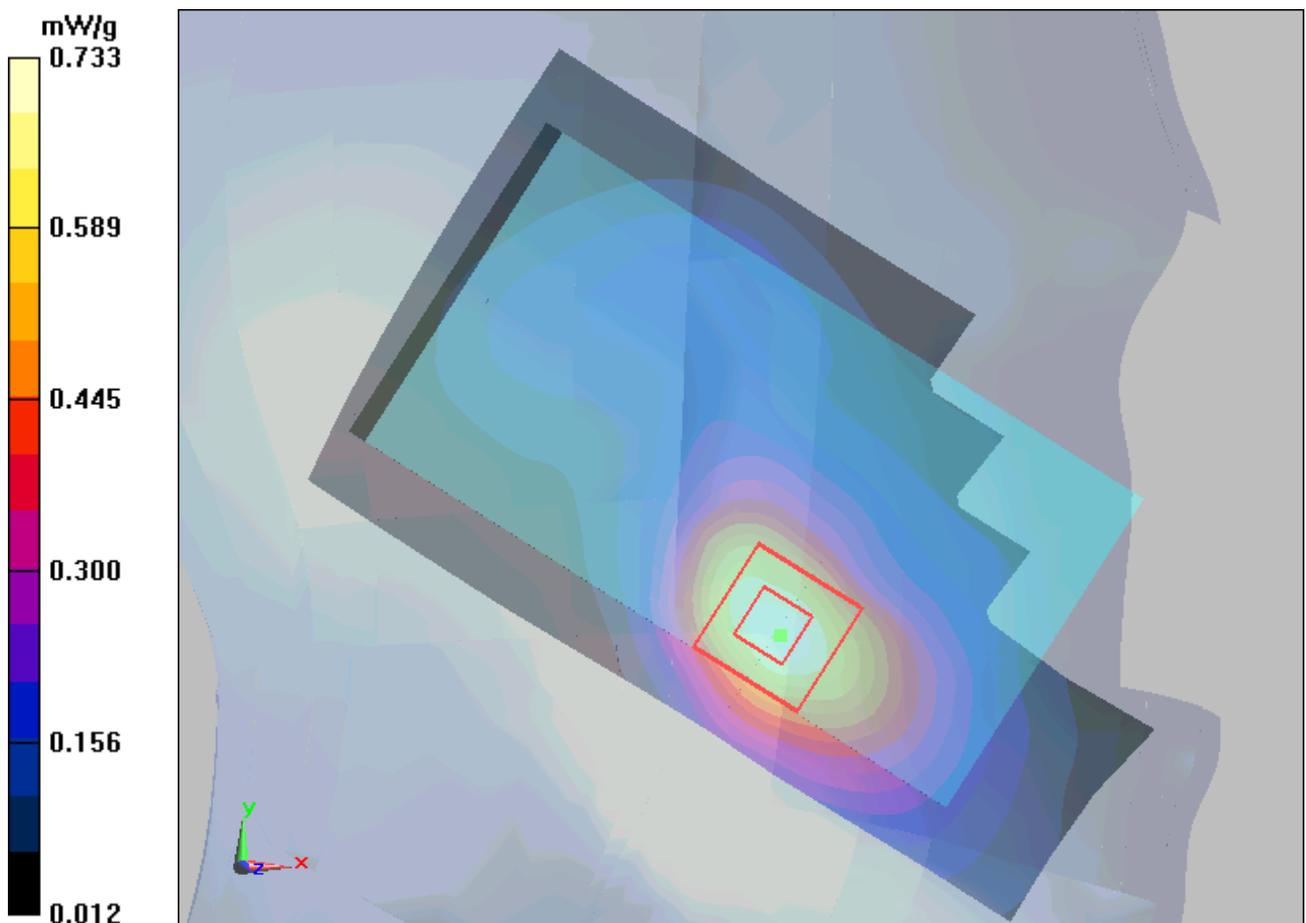


Figure 68 CDMA AWS Left Hand Touch Cheek Channel 450

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CDMA AWS Back Side High (SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 10/12/2012 6:25:44 PM

Communication System: CDMA ; Frequency: 1753.75 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1754$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Towards Phantom High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.919 mW/g

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

Reference Value = 12 V/m; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.837 mW/g; SAR(10 g) = 0.509 mW/g

Maximum value of SAR (measured) = 0.911 mW/g

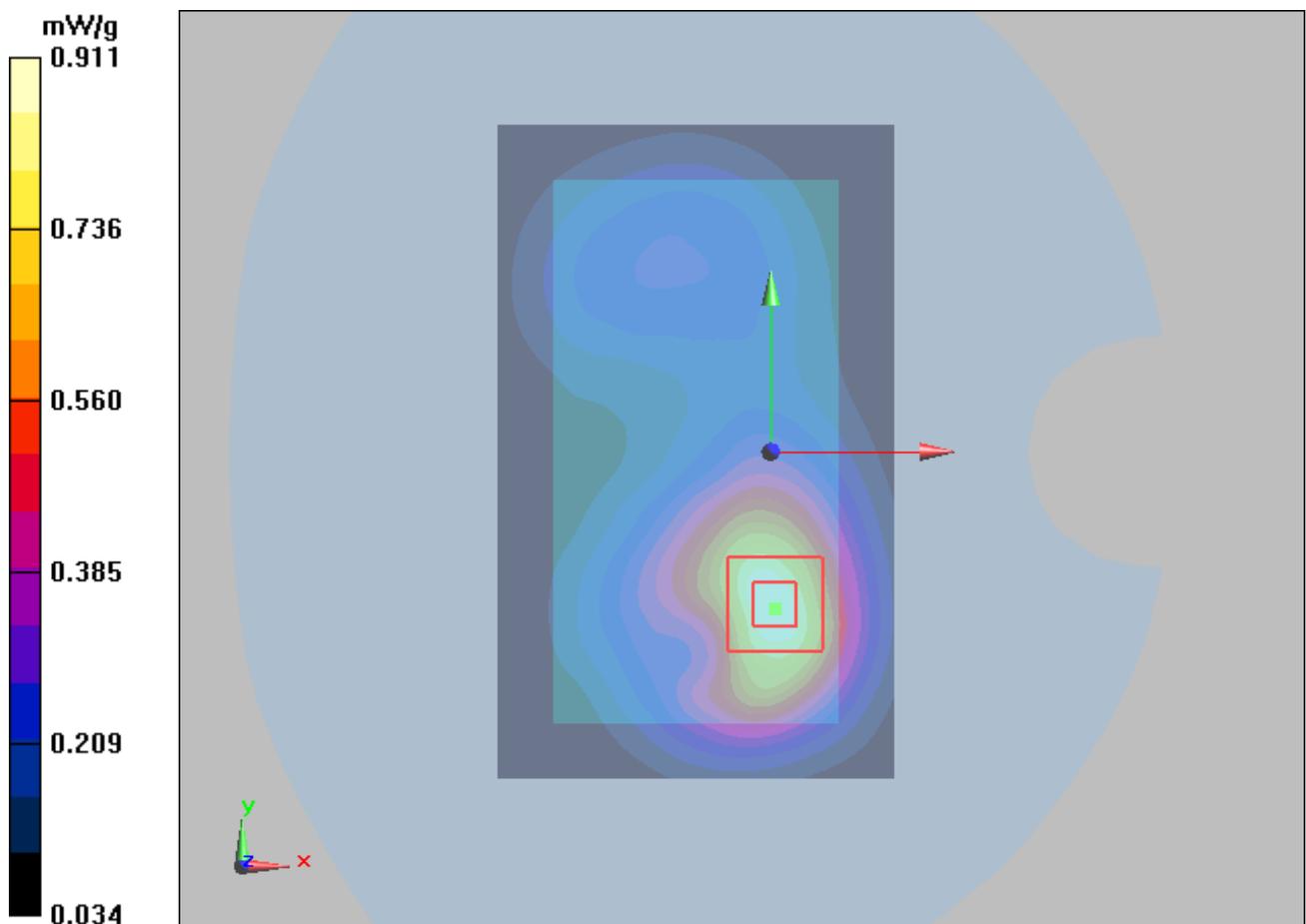


Figure 69 Body, CDMA AWS Back Side Channel 850

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CDMA AWS Back Side Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 6:46:30 PM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.958 mW/g

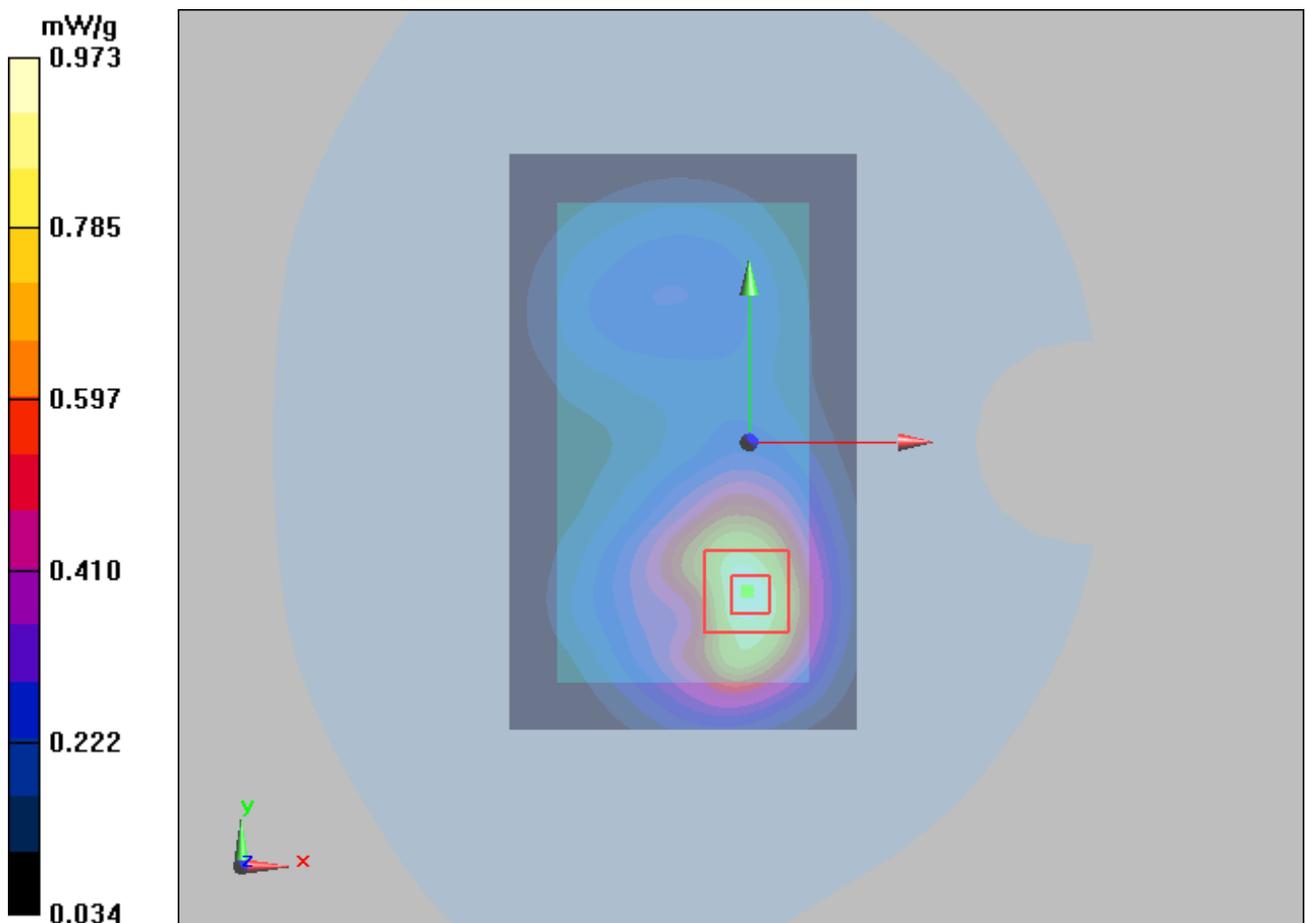
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = -0.089 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.897 mW/g; SAR(10 g) = 0.544 mW/g

Maximum value of SAR (measured) = 0.973 mW/g



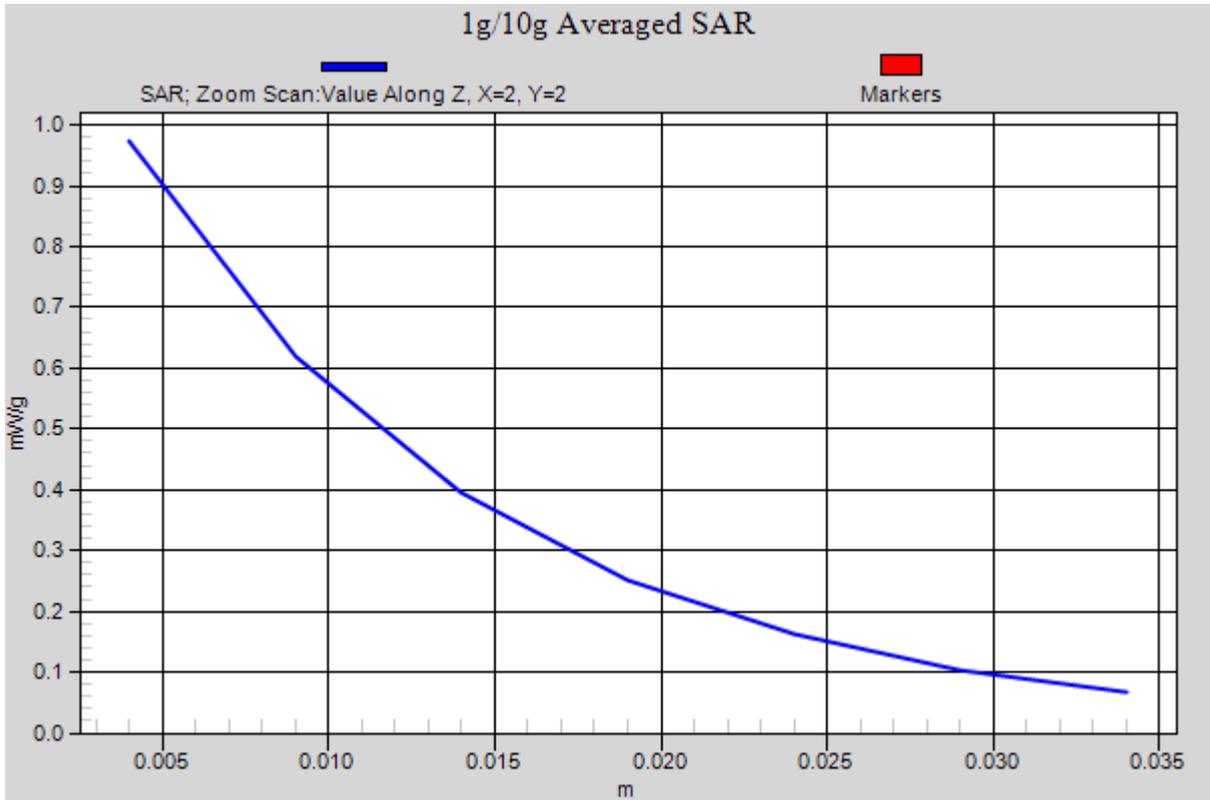


Figure 70 Body, CDMA AWS Back Side Channel 450

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CDMA AWS Back Side Low (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 7:07:48 PM

Communication System: CDMA ; Frequency: 1711.25 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1712$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.899 mW/g

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

Reference Value = 12.7 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.818 mW/g; SAR(10 g) = 0.498 mW/g

Maximum value of SAR (measured) = 0.886 mW/g

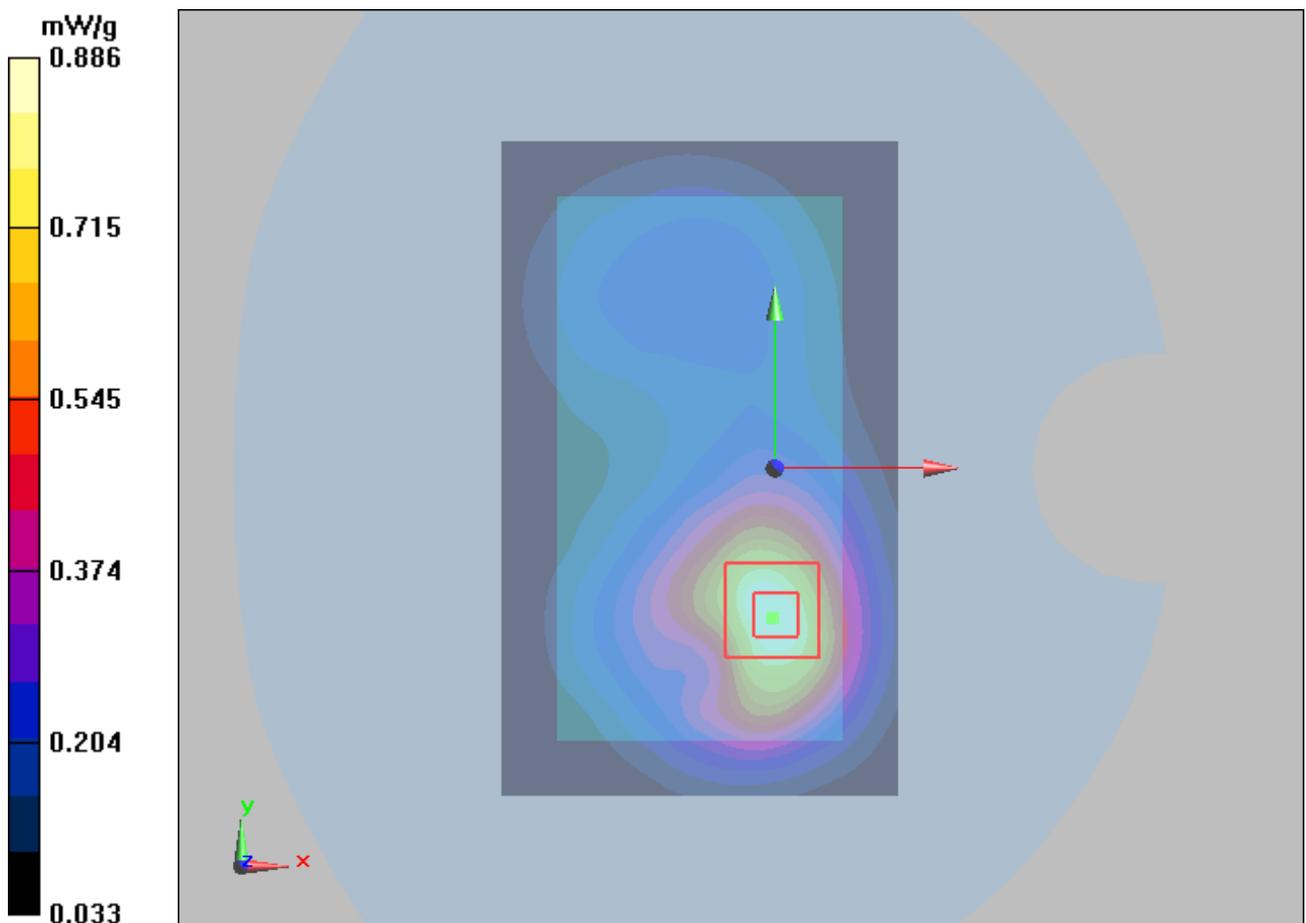


Figure 71 Body, CDMA AWS Back Side Channel 25

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CDMA AWS Front Side Middle (SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 10/12/2012 7:26:24 PM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.790 mW/g

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

Reference Value = 8.72 V/m; Power Drift = 0.140 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.700 mW/g; SAR(10 g) = 0.418 mW/g

Maximum value of SAR (measured) = 0.753 mW/g

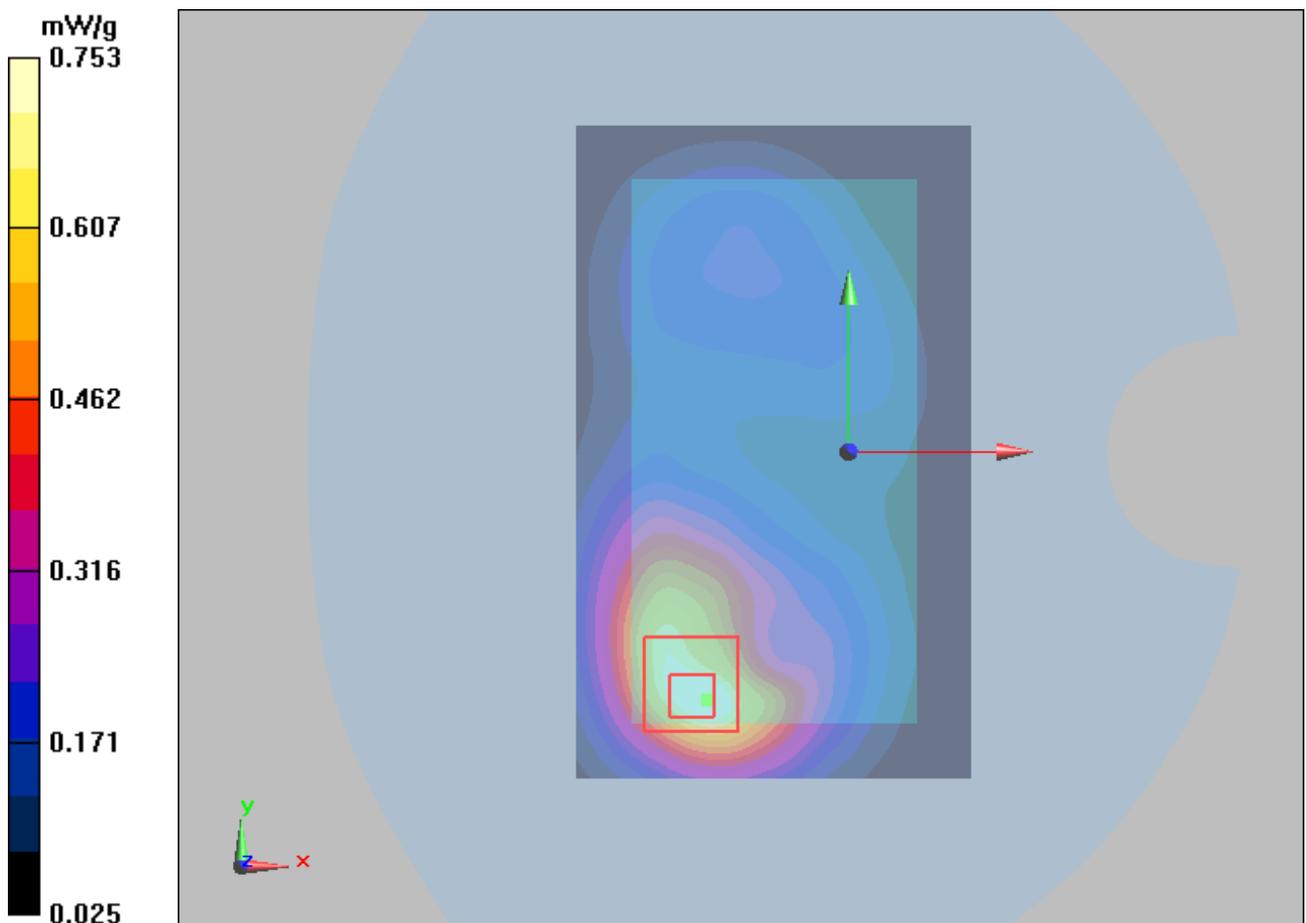


Figure 72 Body, CDMA AWS Front Side Channel 450

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CDMA AWS Left Edge Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 7:42:26 PM

Communication System: CDMA ; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Left Edge Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.359 mW/g

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

Reference Value = 11 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.517 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.195 mW/g

Maximum value of SAR (measured) = 0.349 mW/g

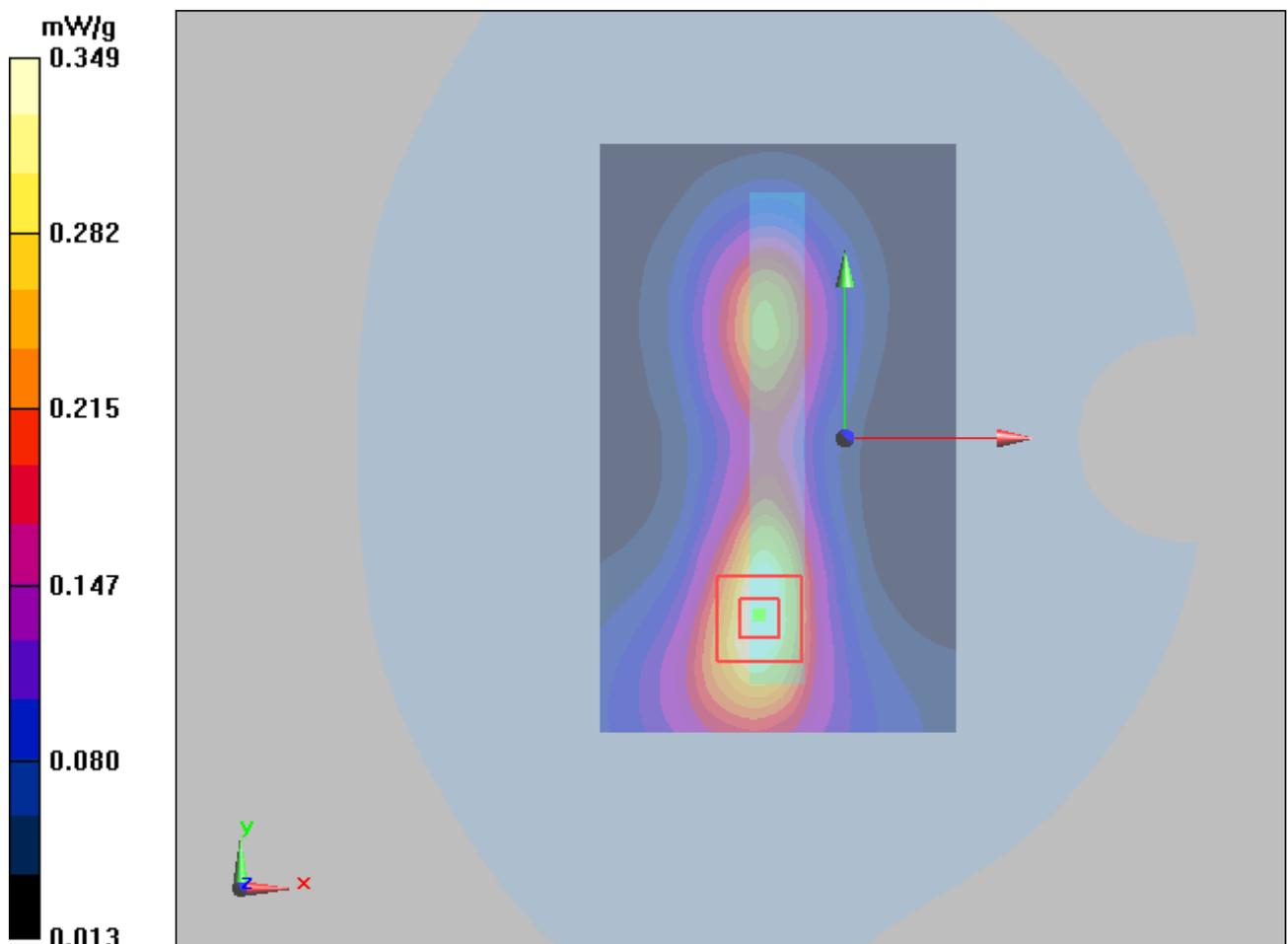


Figure 73 Body, CDMA AWS Left Edge Channel 450

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CDMA AWS Right Edge Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 8:14:12 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Edge Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.070 mW/g

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

Reference Value = 3.74 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.097 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.063 mW/g

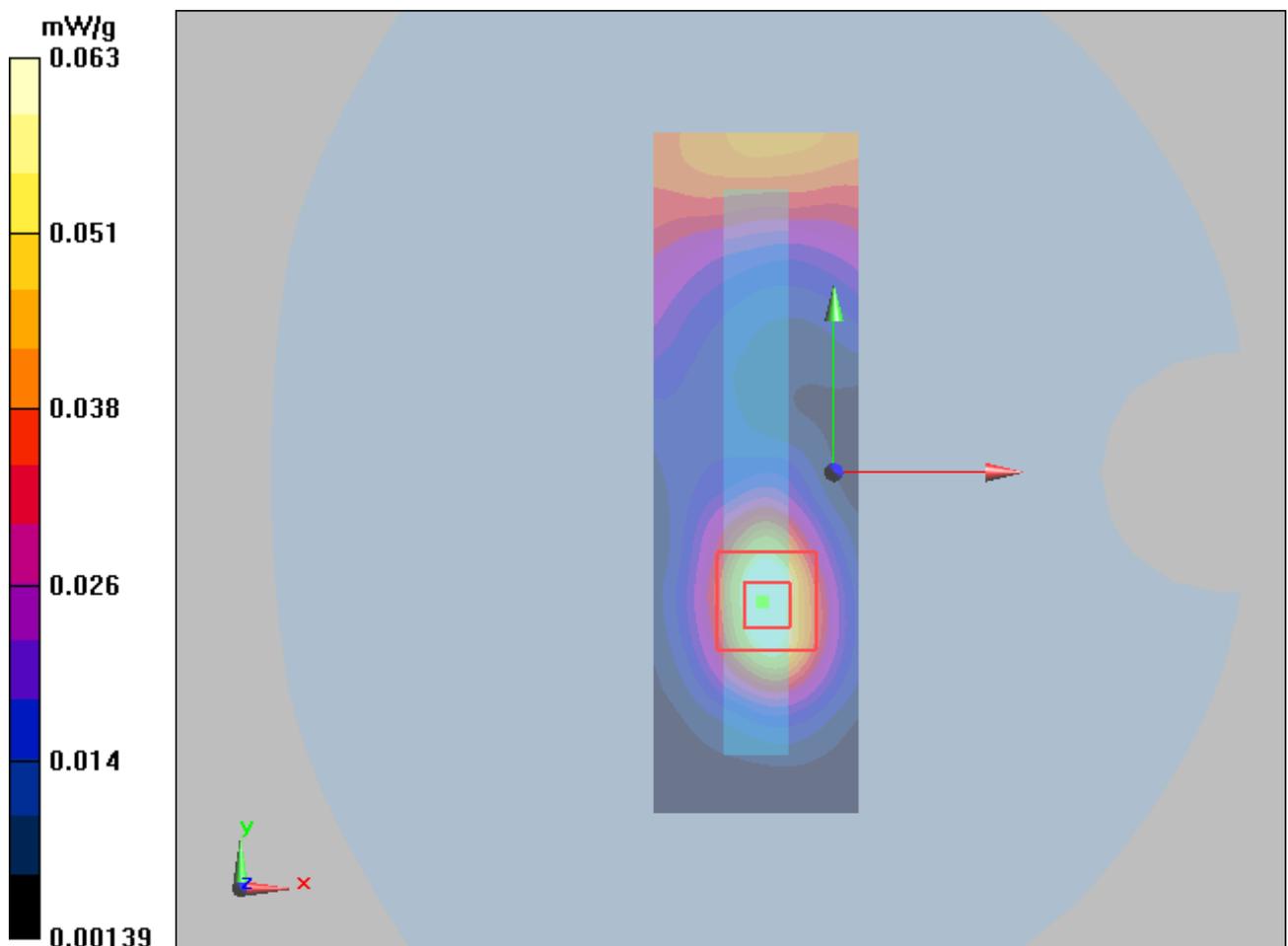


Figure 74 Body, CDMA AWS Right Edge Channel 450

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CDMA AWS Bottom Edge Middle (SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 8:30:53 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Edge Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.788 mW/g

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

Reference Value = 22.5 V/m; Power Drift = -0.159 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.733 mW/g; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (measured) = 0.832 mW/g

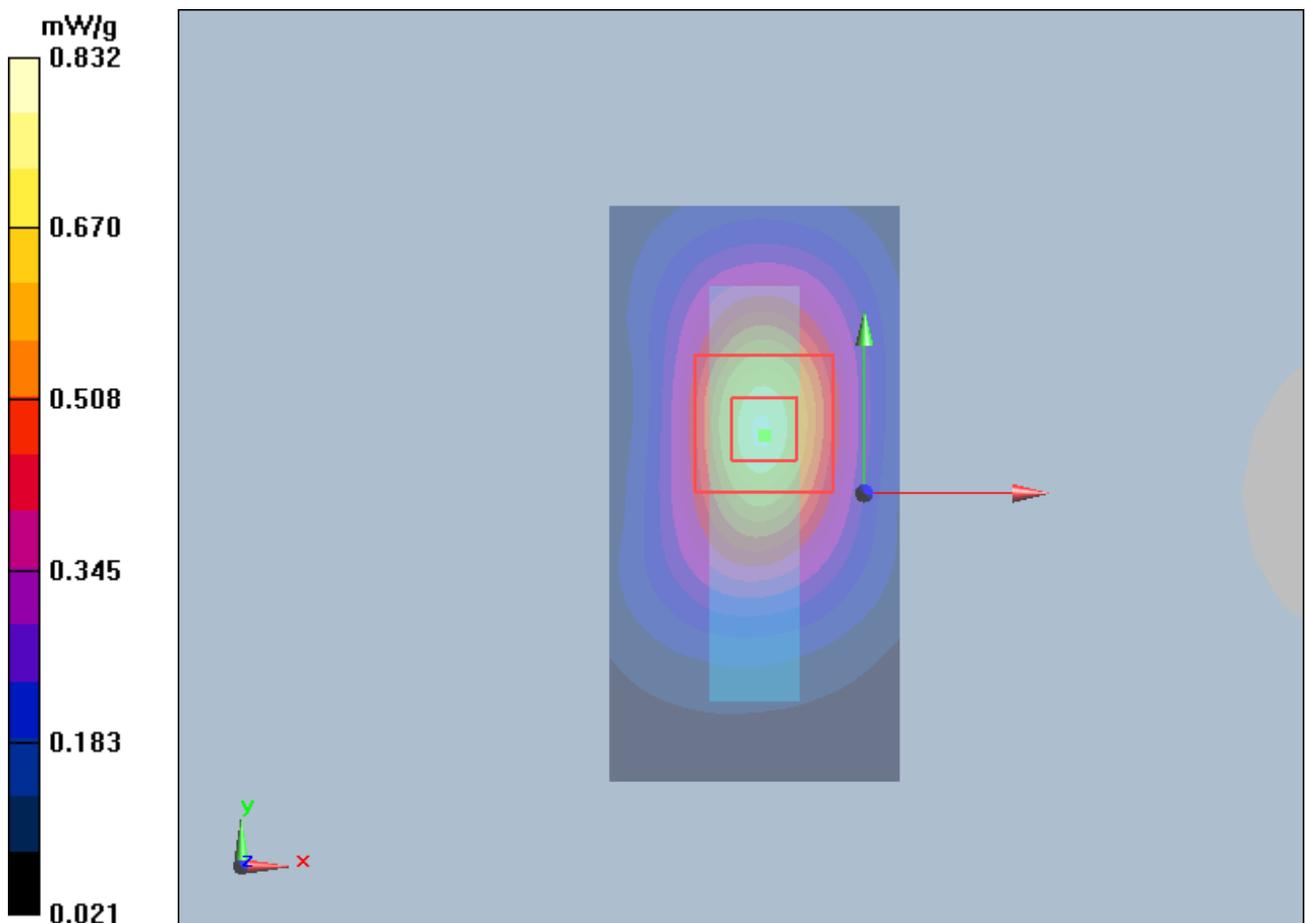


Figure 75 Body, CDMA AWS Bottom Edge Channel 450

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CDMA AWS Back Side Middle (SN: MAIC702X03600810, Distance 10mm)

Date/Time: 10/12/2012 9:05:08 AM

Communication System: CDMA ; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1 mW/g

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

Reference Value = 12.9 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.845 mW/g; SAR(10 g) = 0.510 mW/g

Maximum value of SAR (measured) = 0.918 mW/g

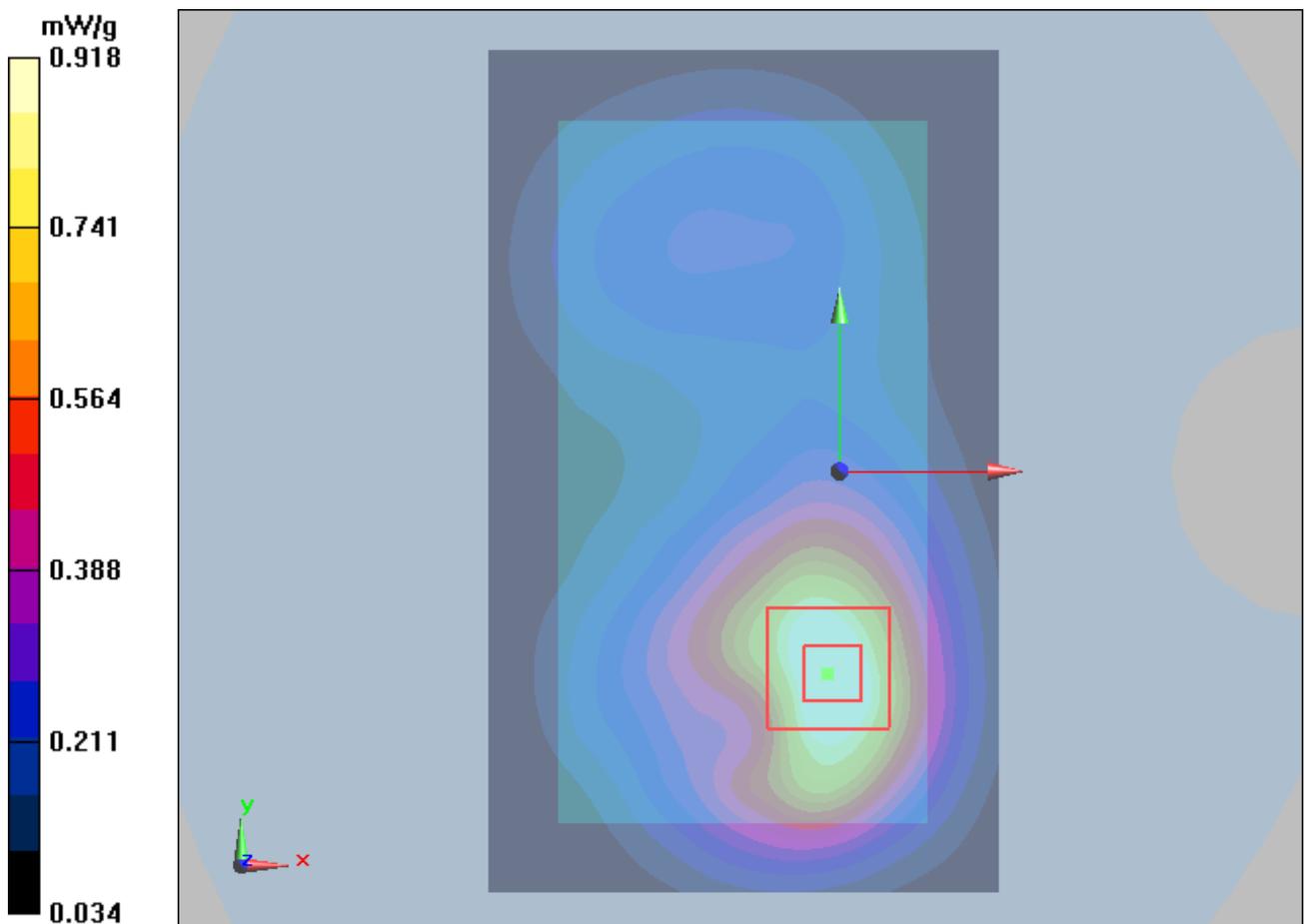


Figure 76 Body, CDMA AWS Back Side Channel 450

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA AWS Back Side Middle (SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/12/2012 9:22:23 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.599 mW/g

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

Reference Value = 8.47 V/m; Power Drift = 0.00251 dB

Peak SAR (extrapolated) = 0.853 W/kg

SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.348 mW/g

Maximum value of SAR (measured) = 0.600 mW/g

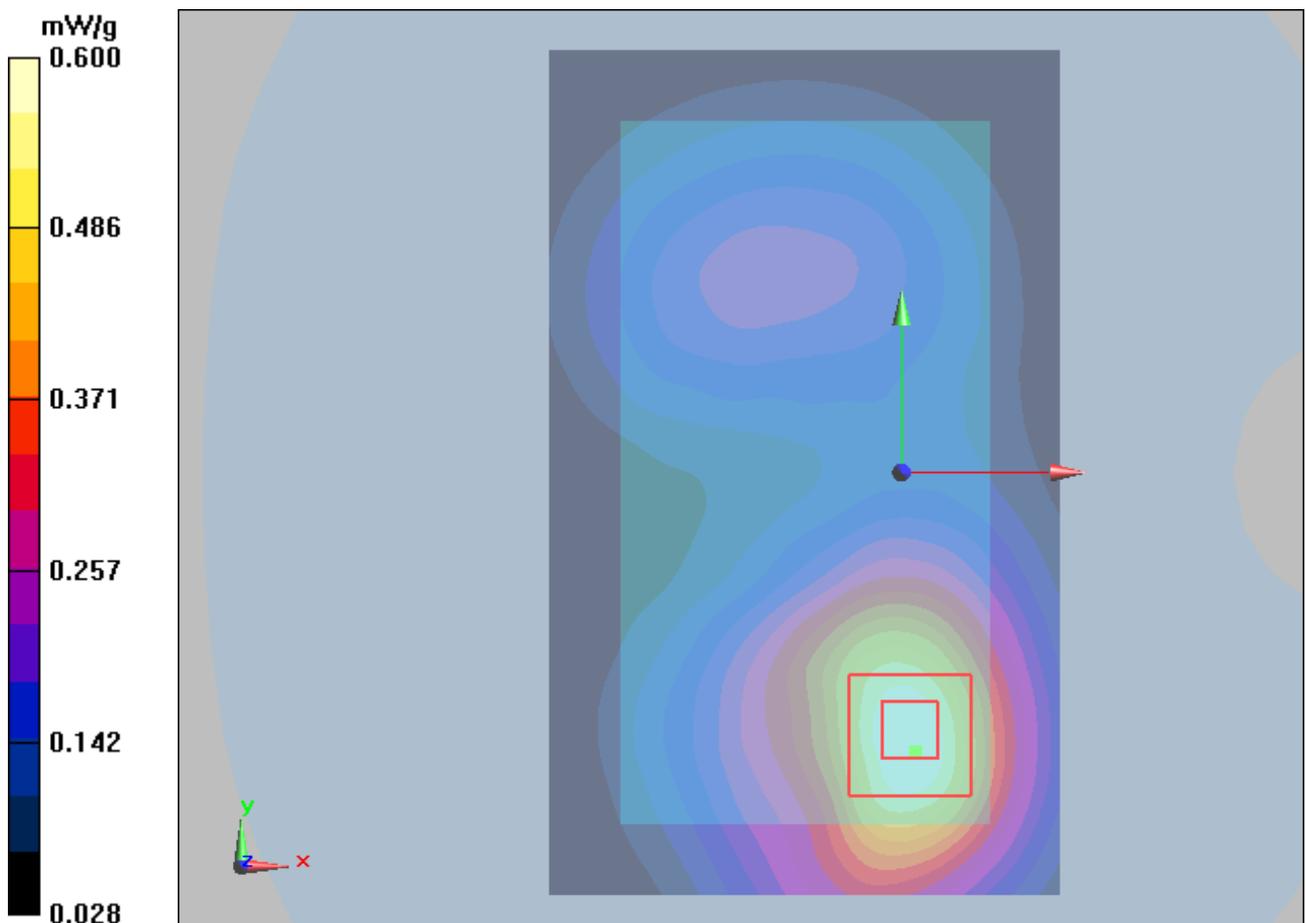


Figure 77 Body, CDMA AWS Back Side Channel 450

TA Technology (Shanghai) Co., Ltd.
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CDMA AWS Front Side Middle (SN: UWDC320XBG01407, Distance 15mm)

Date/Time: 10/12/2012 9:39:53 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.536 mW/g

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

Reference Value = 7.78 V/m; Power Drift = 0.100 dB

Peak SAR (extrapolated) = 0.786 W/kg

SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.529 mW/g

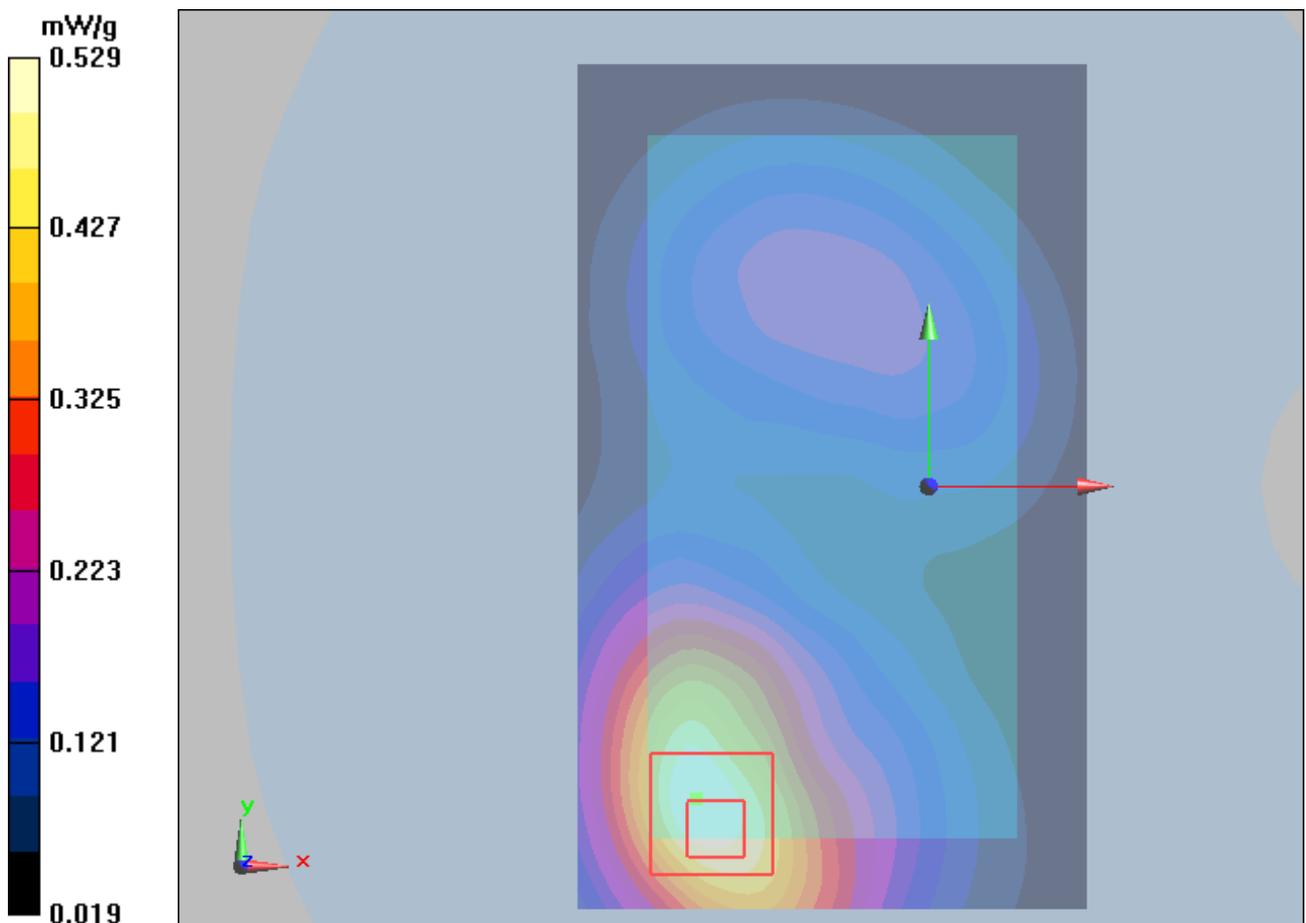


Figure 78 Body, CDMA AWS Front Side Channel 450

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CDMA AWS with Earphone Back Side Middle (SN: UWDC320XBG01407, Distance 15mm)

Date/Time: 10/12/2012 9:56:18 AM

Communication System: CDMA ; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.556 mW/g

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

Reference Value = 8.36 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 0.802 W/kg

SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.325 mW/g

Maximum value of SAR (measured) = 0.558 mW/g

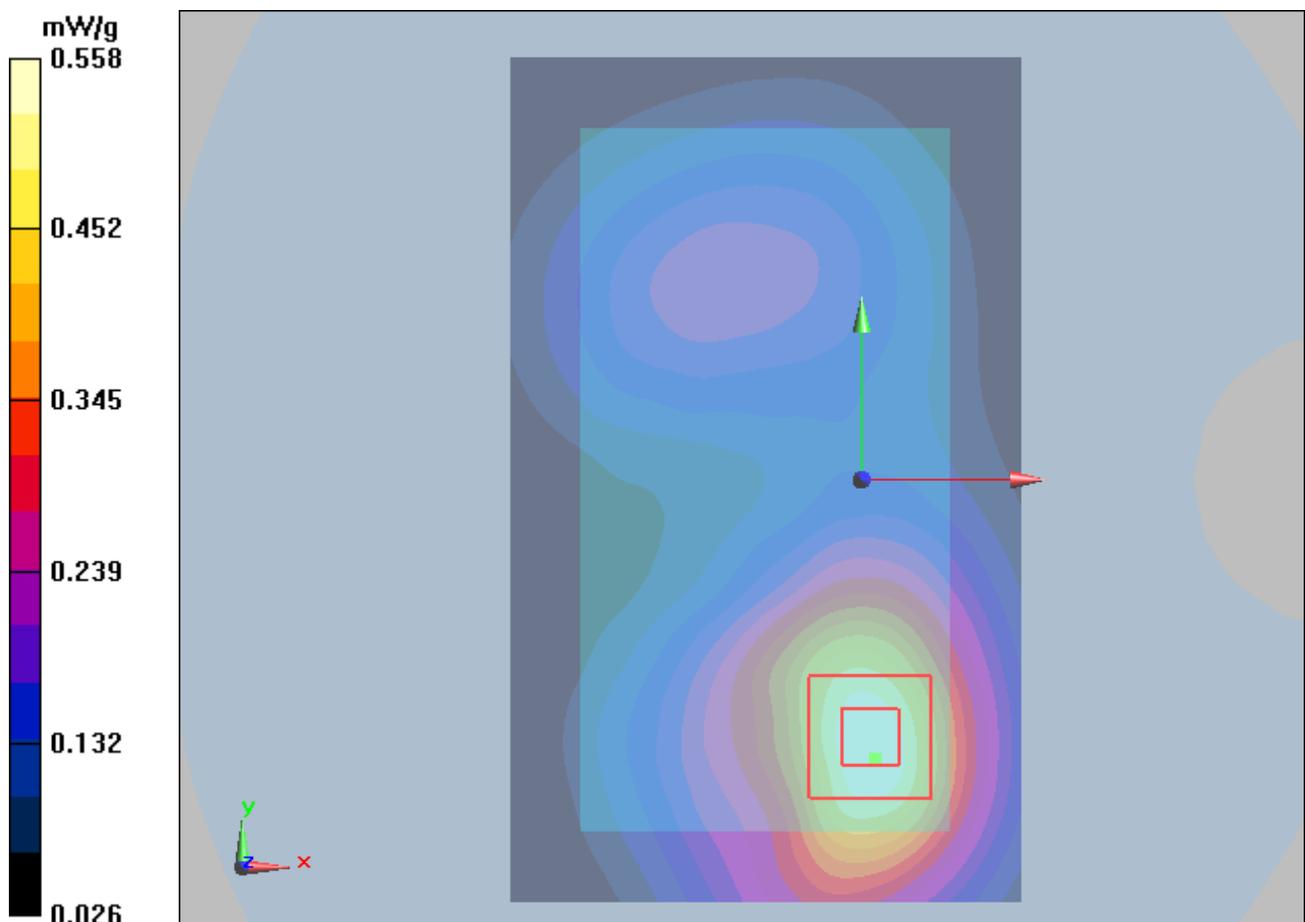


Figure 79 Body, CDMA AWS with Earphone Back Side Channel 450

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CDMA AWS Back Side Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/26/2012 6:32:35 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.041 mW/g

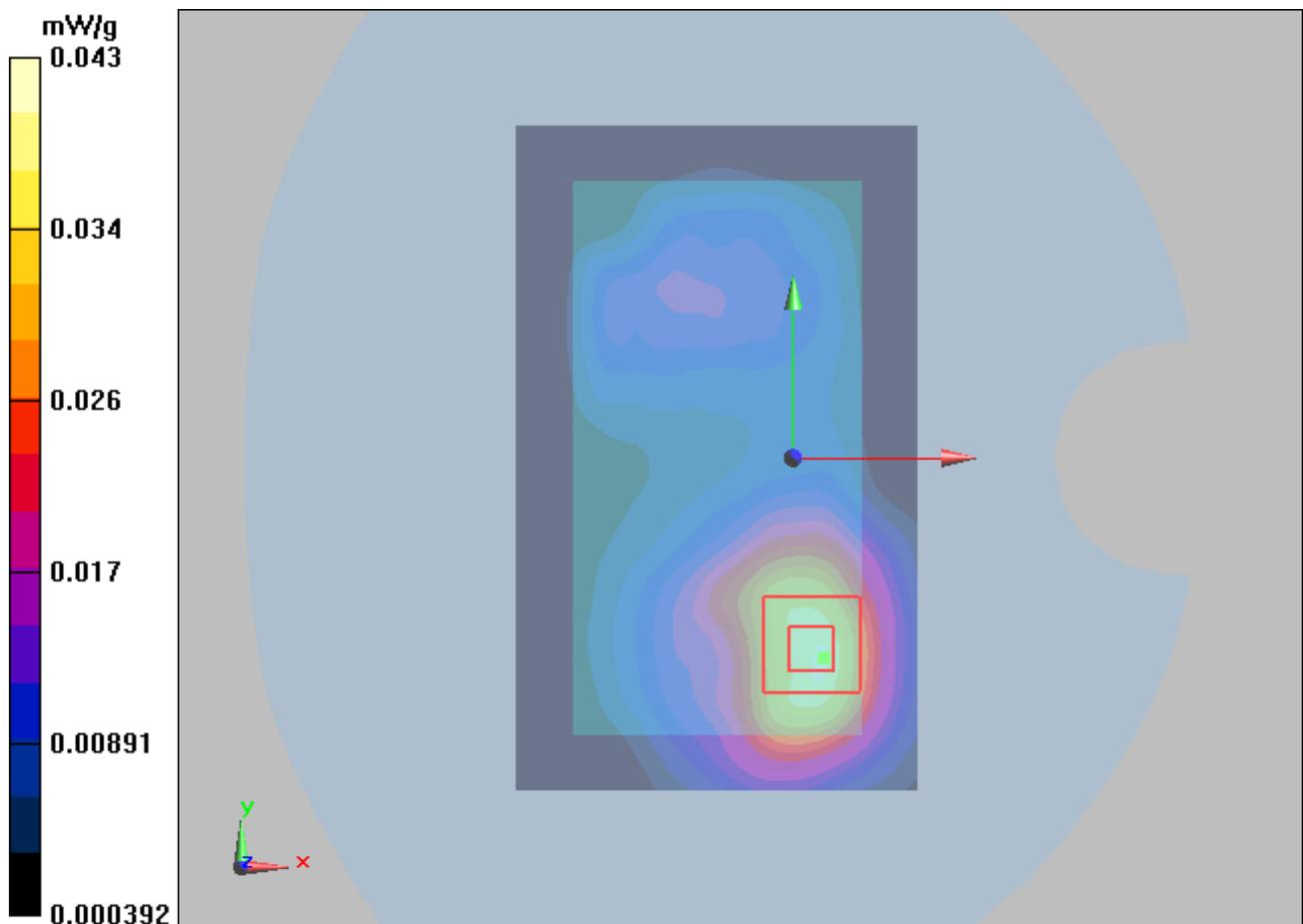
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.09 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.064 W/kg

SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.043 mW/g



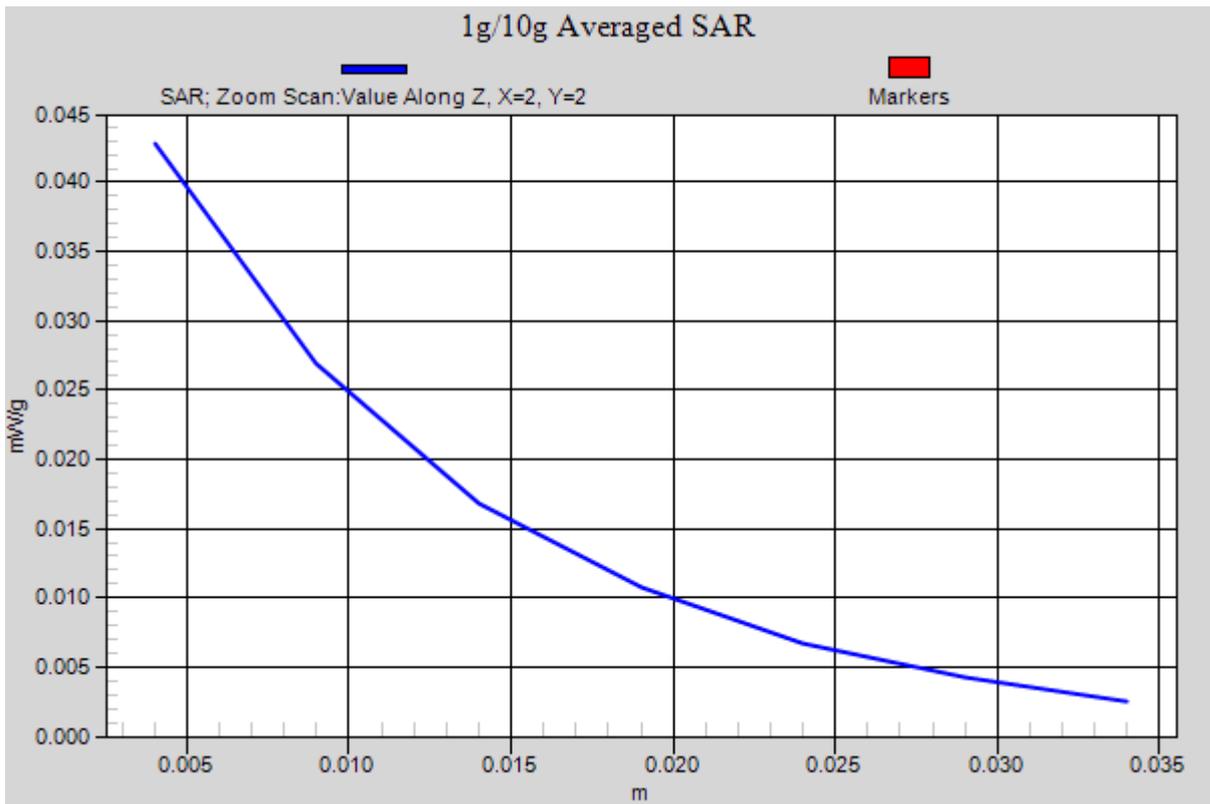


Figure 80 Body, CDMA AWS Back Side Channel 450

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CDMA AWS Front Side Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/26/2012 5:56:27 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.041 mW/g

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

Reference Value = 1.83 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 0.059 W/kg

SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.039 mW/g

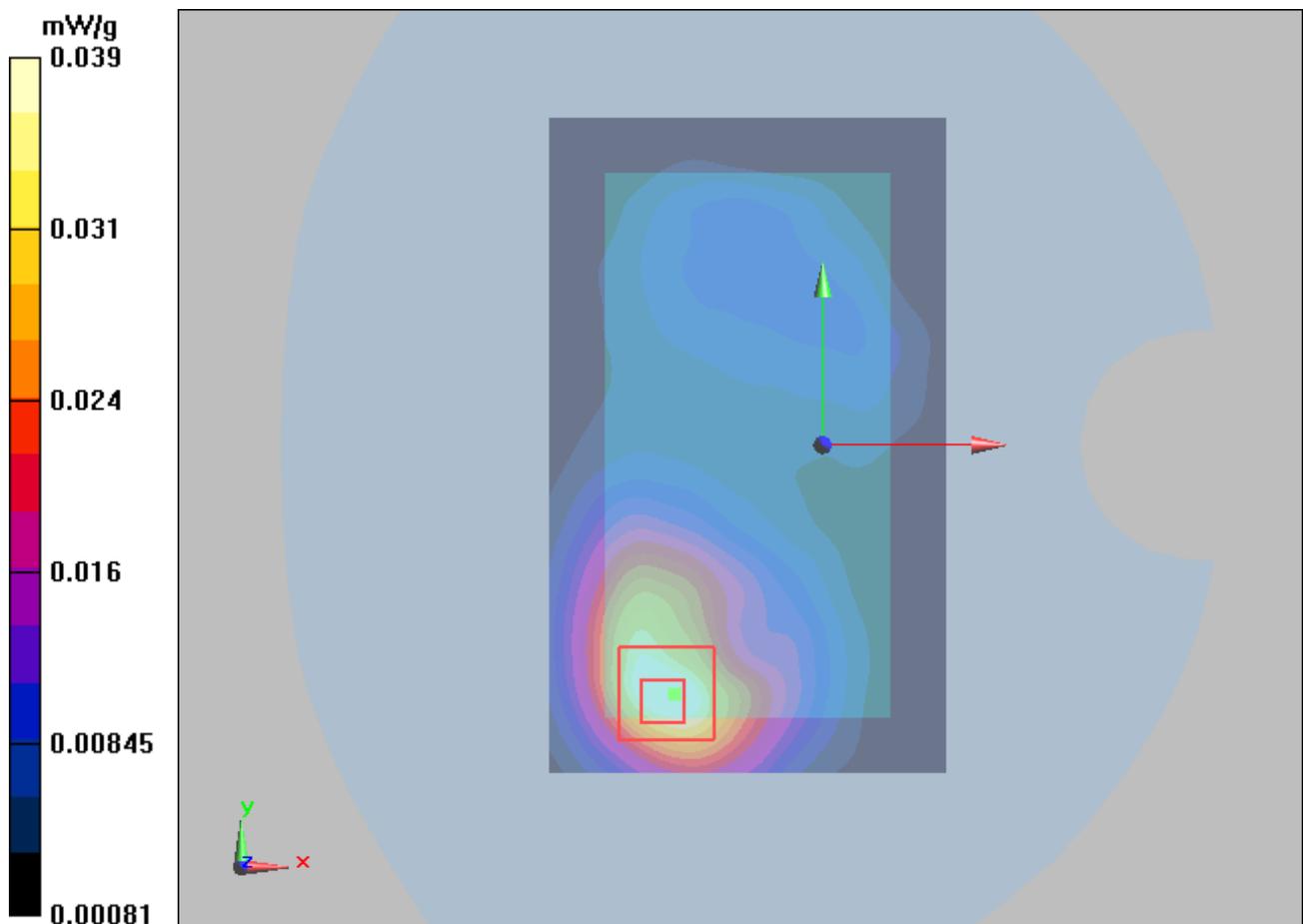


Figure 81 Body, CDMA AWS Front Side Channel 450

TA Technology (Shanghai) Co., Ltd.
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CDMA AWS Left Edge Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/26/2012 5:40:02 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Left Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.016 mW/g

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

Reference Value = 2.03 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.008 mW/g

Maximum value of SAR (measured) = 0.014 mW/g

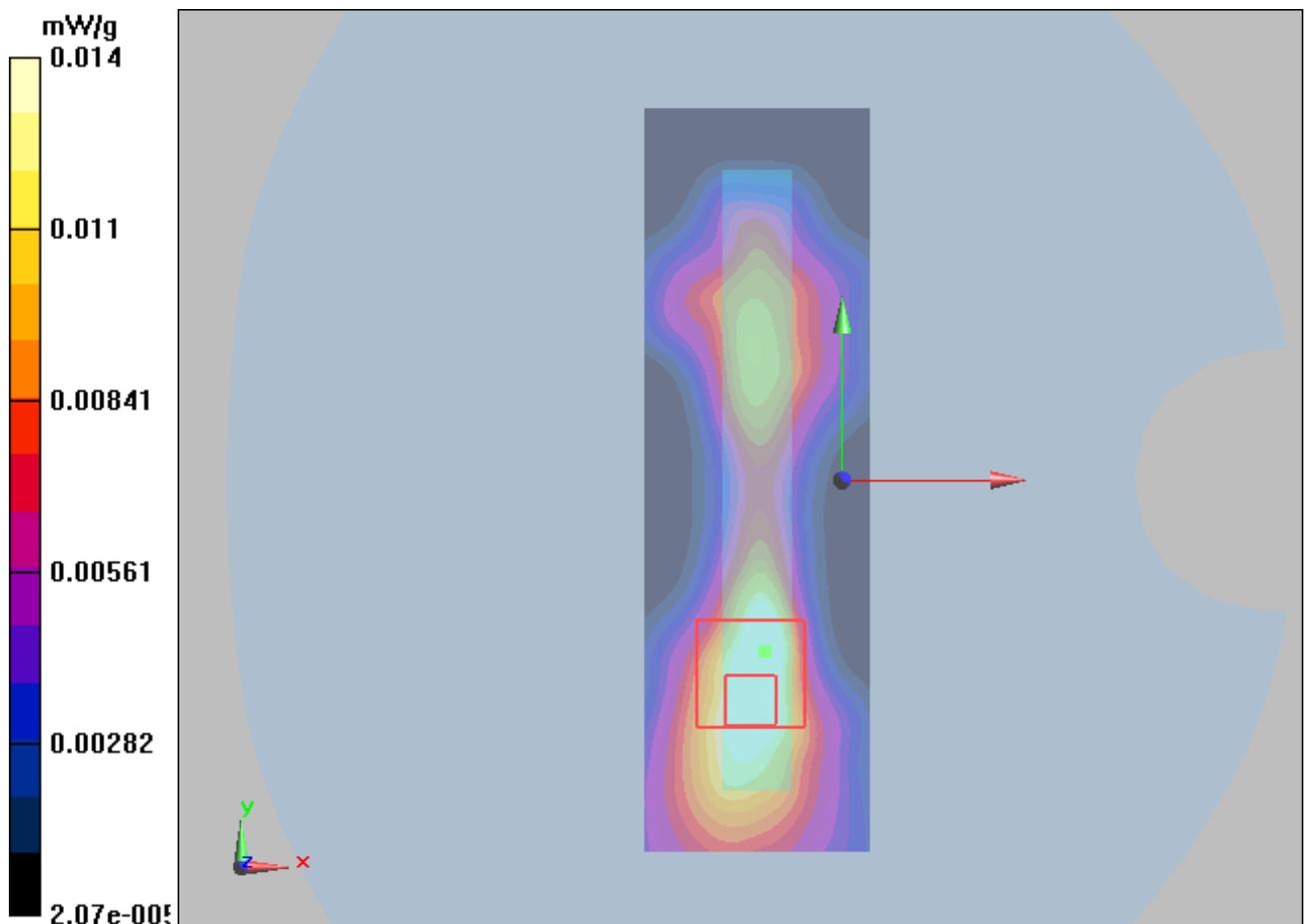


Figure 82 Body, CDMA AWS Left Edge Channel 450

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA AWS Right Edge Middle (SN: UWDC320XBG01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/26/2012 5:25:04 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.00579 mW/g

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

Reference Value = 0 V/m; Power Drift = 0.099 dB

Peak SAR (extrapolated) = 0.00988 W/kg

SAR(1 g) = 0.003 mW/g; SAR(10 g) = 0.002 mW/g

Maximum value of SAR (measured) = 0.00345 mW/g

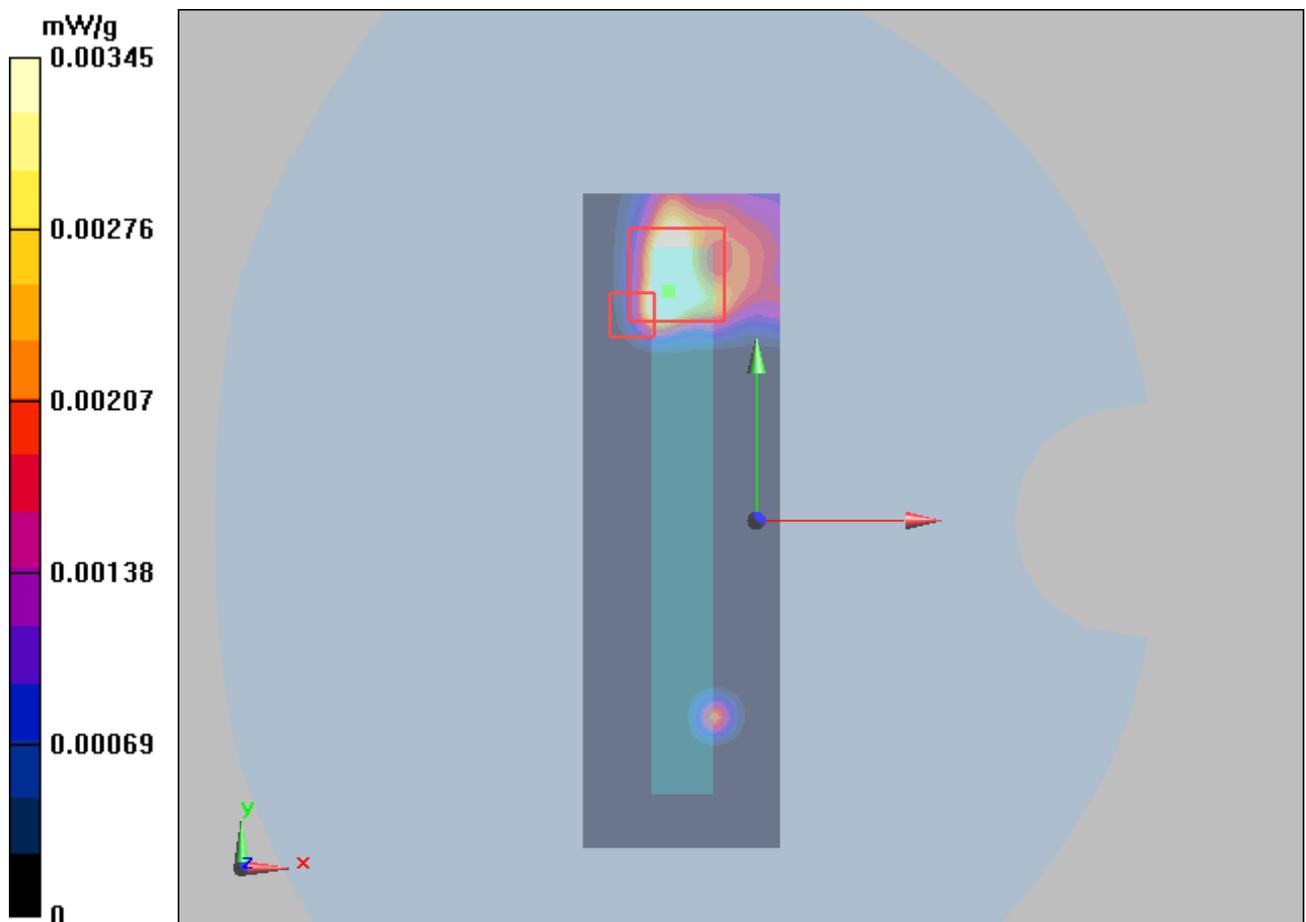


Figure 83 Body, CDMA AWS Right Edge Channel 450

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA AWS Bottom Edge Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/26/2012 6:18:42 AM

Communication System: CDMA ; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Side Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.038 mW/g

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

Reference Value = 4.56 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.059 W/kg

SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.038 mW/g

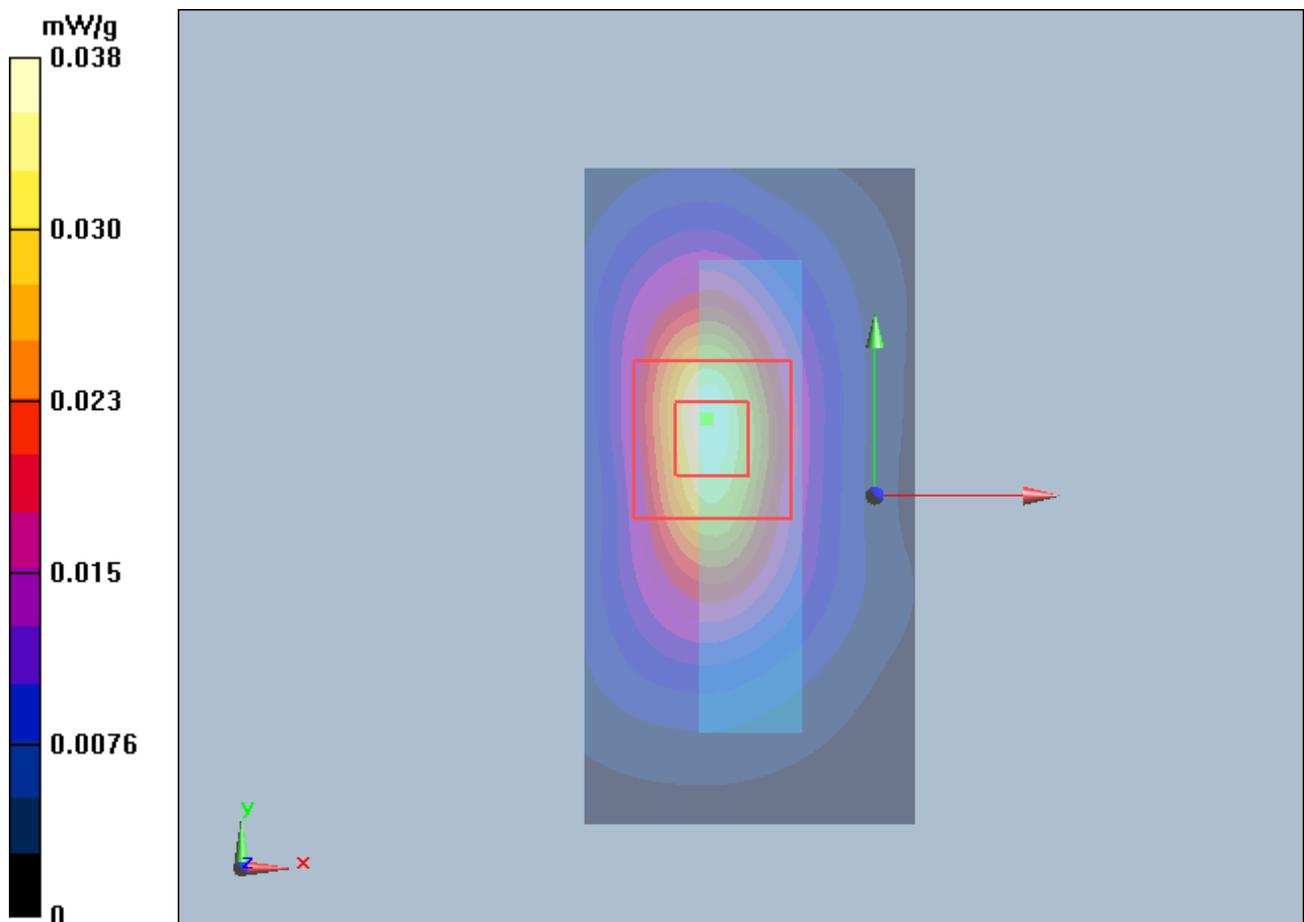


Figure 84 Body, CDMA AWS Bottom Edge Channel 450

TA Technology (Shanghai) Co., Ltd. Test Report

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CDMA AWS with Earphone Back Side Middle (SN: UWDC320XBGN01407, P=14.5dBm, Distance 10mm)

Date/Time: 11/26/2012 6:54:29 AM

Communication System: CDMA ; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.040 mW/g

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

Reference Value = 2 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.062 W/kg

SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.043 mW/g

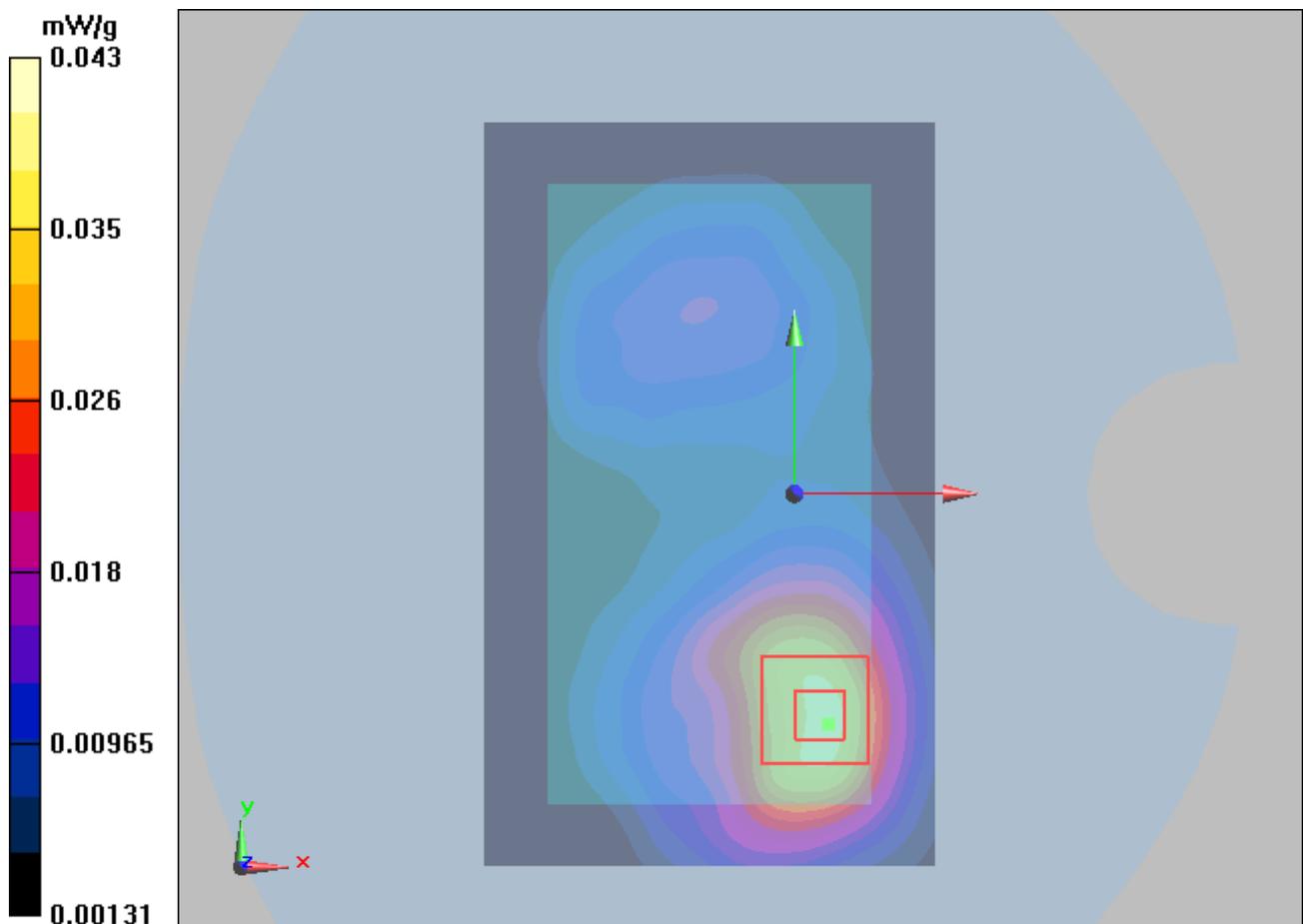


Figure 85 Body, CDMA AWS Back Side Channel 450

TA Technology (Shanghai) Co., Ltd.
Test Report

CDMA AWS Back Side Middle (SN: MAIC702X03600810, P=14.5dBm, Distance 10mm)

Date/Time: 11/26/2012 7:18:52 AM

Communication System: CDMA ; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.037 mW/g

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

Reference Value = 1.91 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 0.058 W/kg

SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.039 mW/g

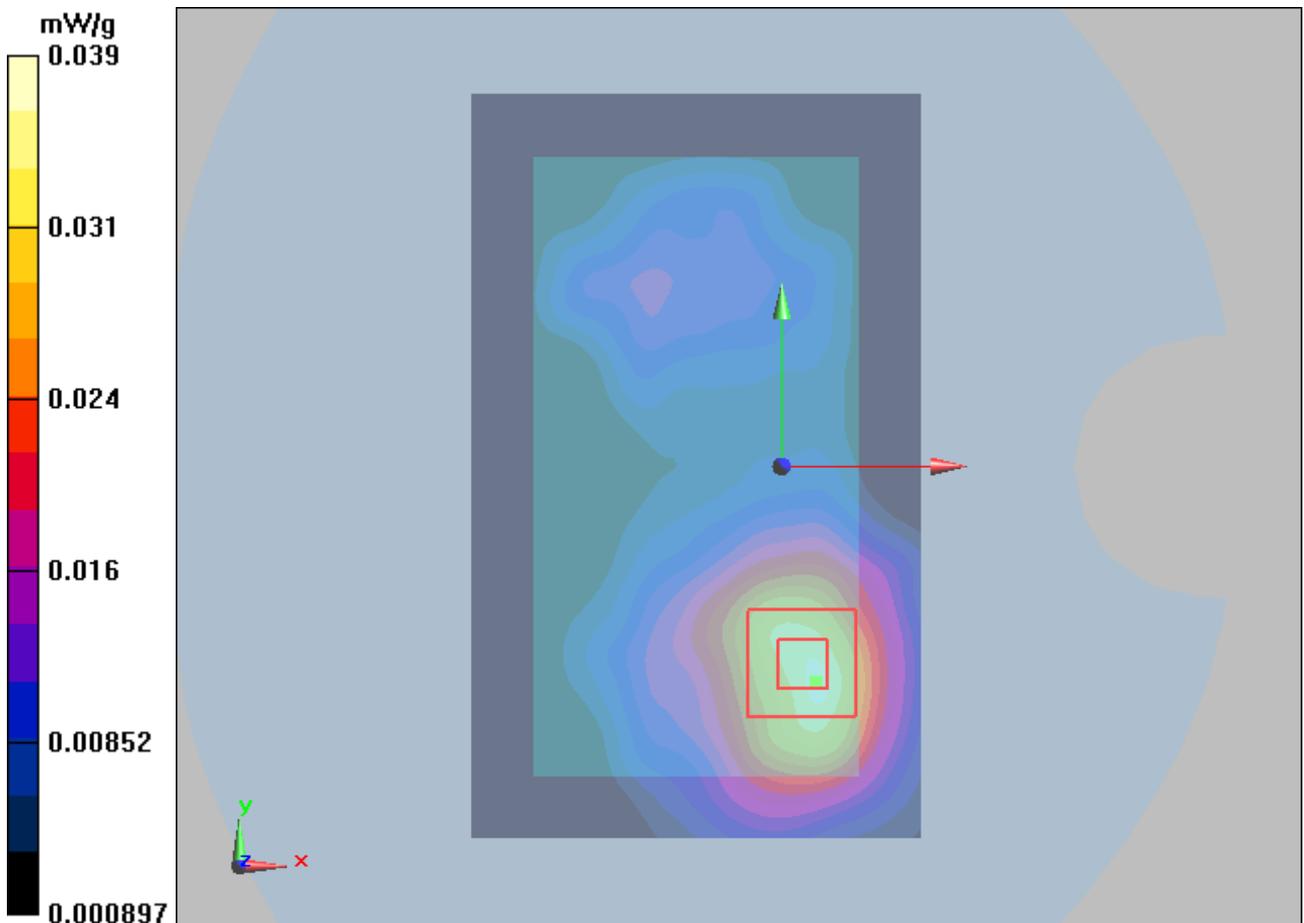


Figure 86 Body, CDMA AWS Back Side Channel 450

TA Technology (Shanghai) Co., Ltd. Test Report

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LTE Band 2 with 50% RB Left Cheek Middle (10MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 10:09:34 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.459 mW/g

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

Reference Value = 10.7 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.447 mW/g

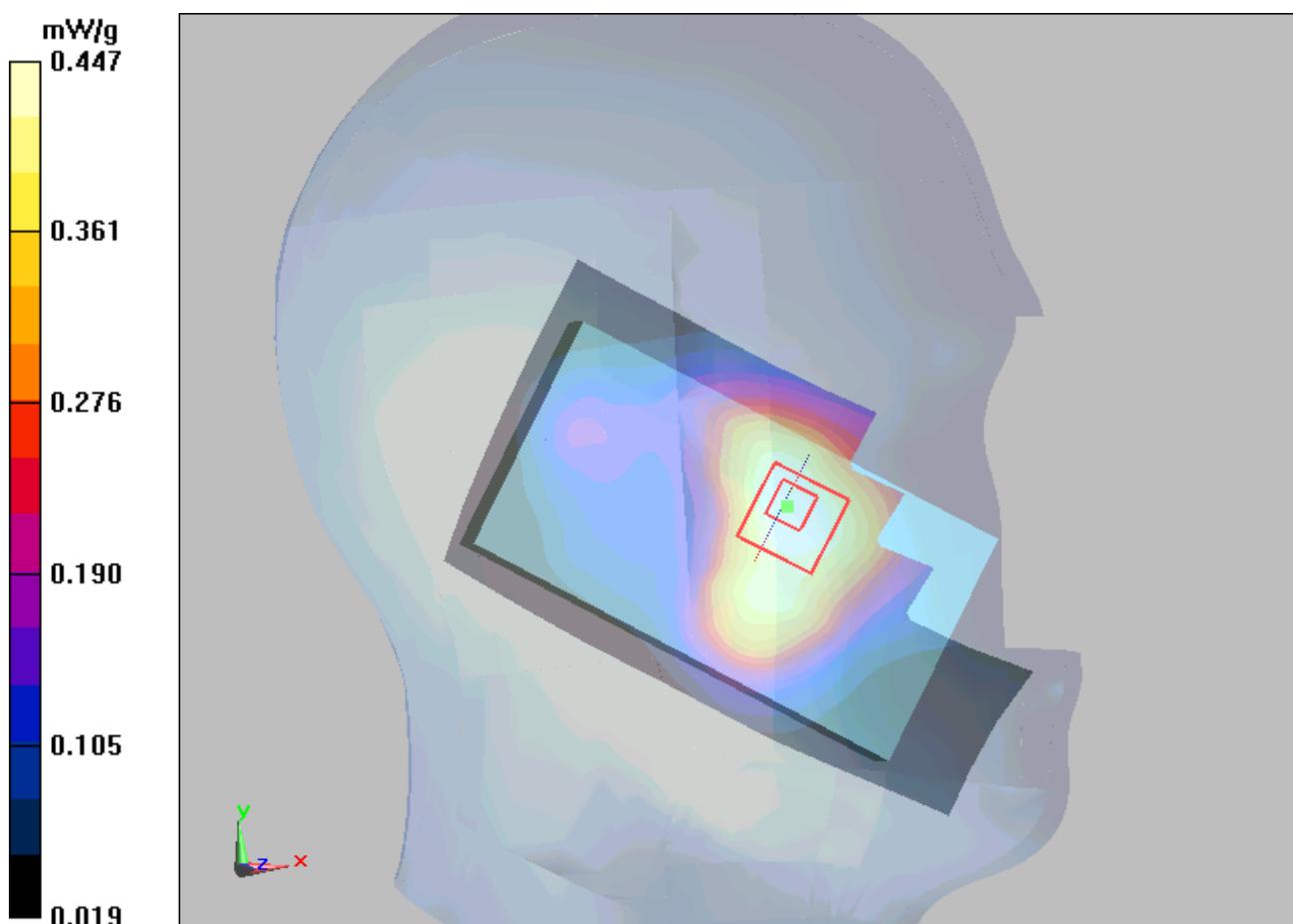


Figure 87 LTE Band 2 with 50% RB Left Hand Touch Cheek Channel 18900

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 50% RB Left Tilt Middle (10MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 10:25:37 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.462 mW/g

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

Reference Value = 16.6 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.597 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.227 mW/g

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

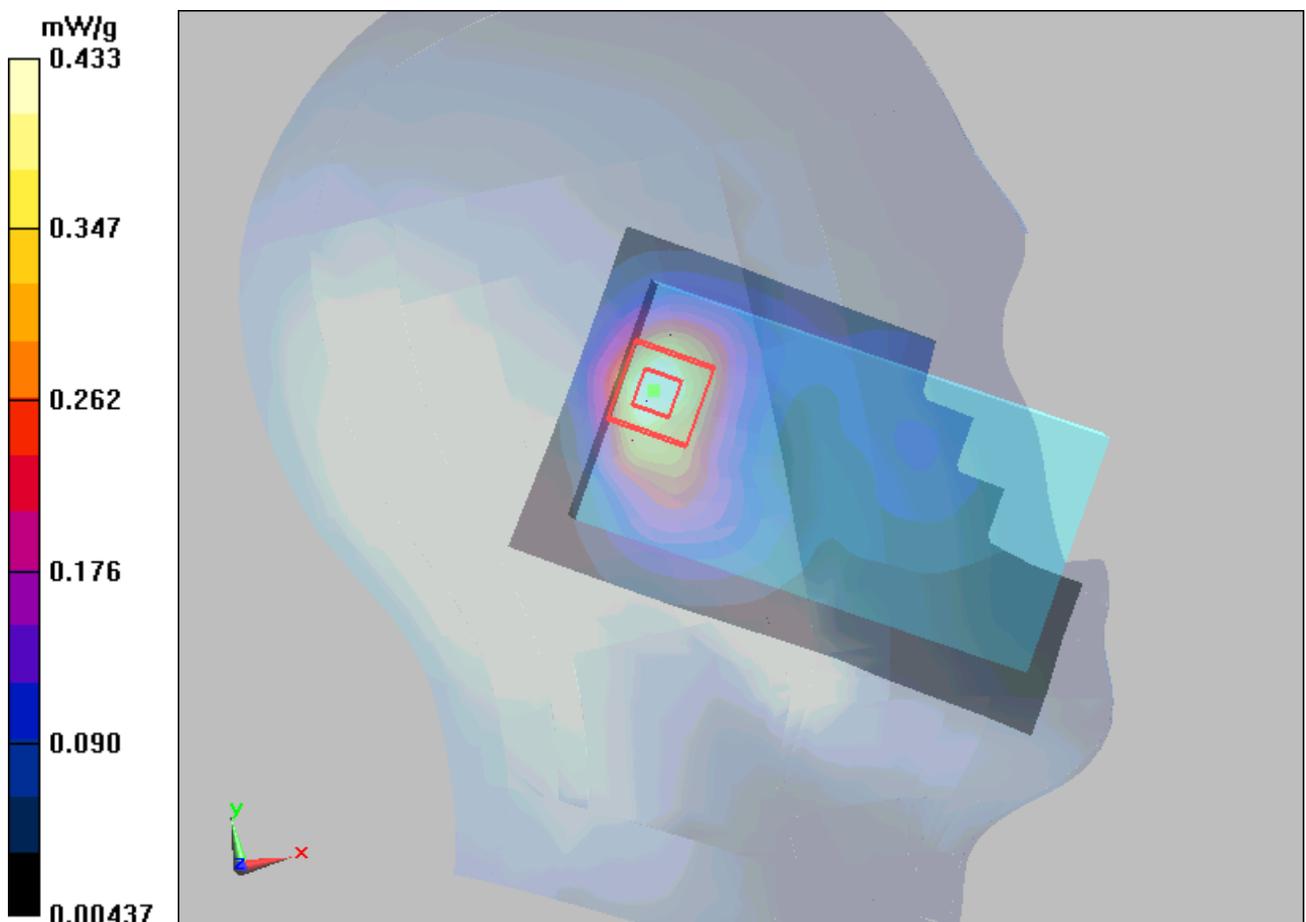


Figure 88 LTE Band 2 with 50% RB Left Hand Tilt 15° Channel 18900

TA Technology (Shanghai) Co., Ltd.
Test Report

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LTE Band 2 with 50% RB Right Cheek Middle (10MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 10:50:26 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.739 mW/g

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

Reference Value = 9.01 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 1.1 W/kg

SAR(1 g) = 0.689 mW/g; SAR(10 g) = 0.426 mW/g

Maximum value of SAR (measured) = 0.732 mW/g

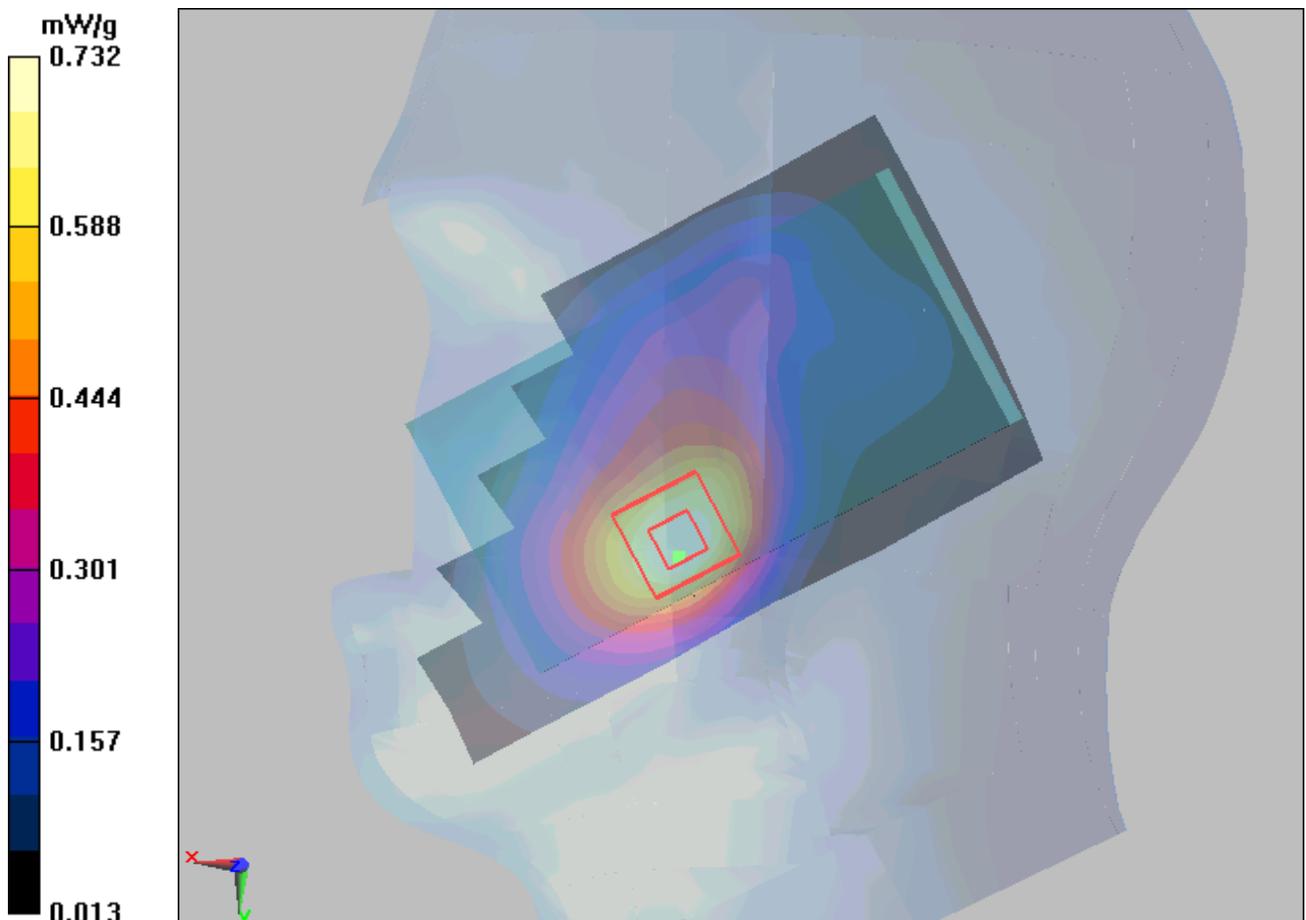


Figure 89 LTE Band 2 with 50% RB Right Hand Touch Cheek Channel 18900

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 50% RB Right Tilt Middle (10MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 11:05:59 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 14.2 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 0.484 W/kg

SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.361 mW/g

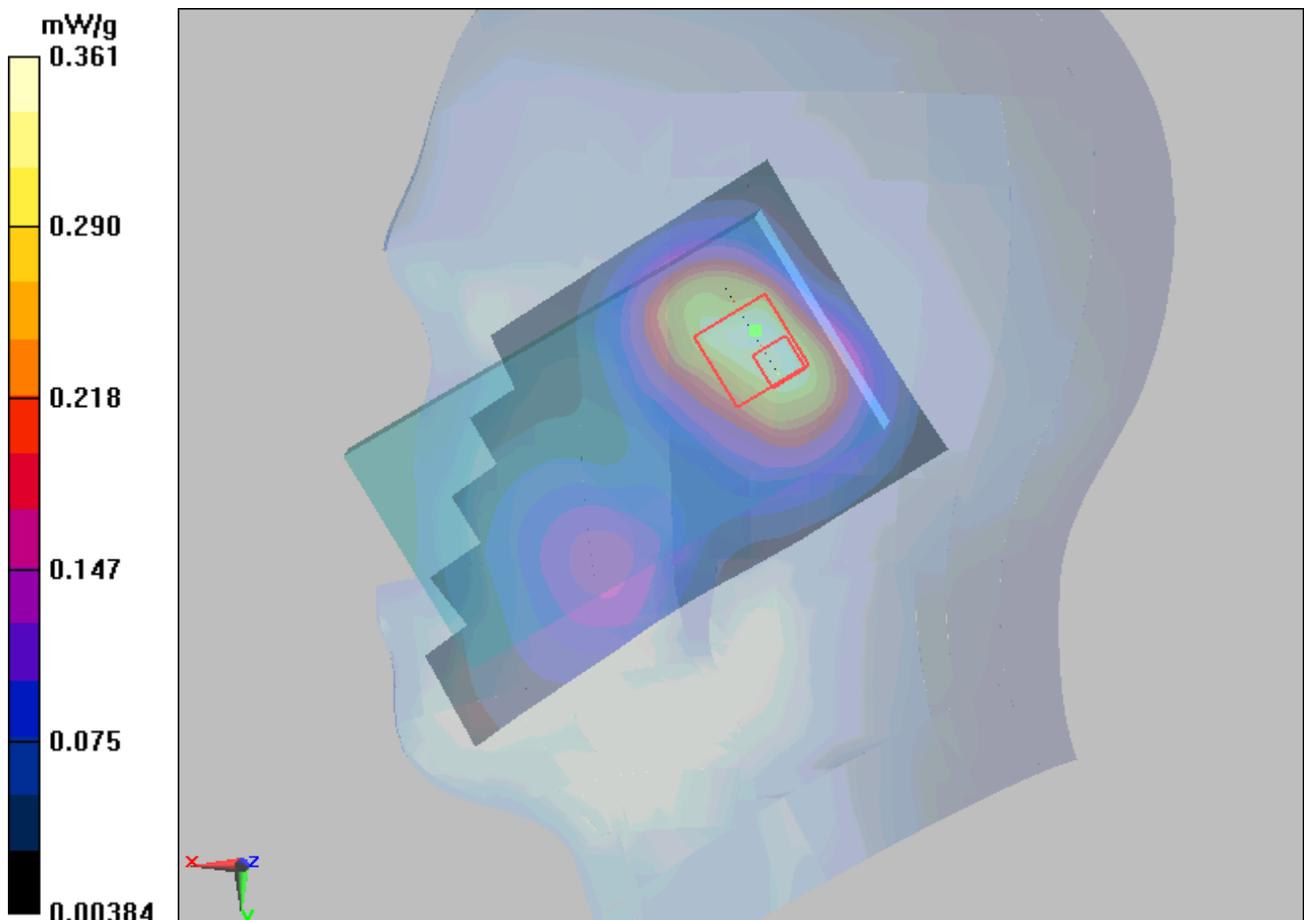


Figure 90 LTE Band 2 with 50% RB Right Hand Tilt 15° Channel 18900

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 1 RB Right Cheek High (10MHz, SN: UWDC320XBGN01407, QPSK, Low end)

Date/Time: 10/9/2012 11:21:41 AM

Communication System: LTE; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1905$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.904 mW/g

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

Reference Value = 11 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.535 mW/g

Maximum value of SAR (measured) = 0.955 mW/g

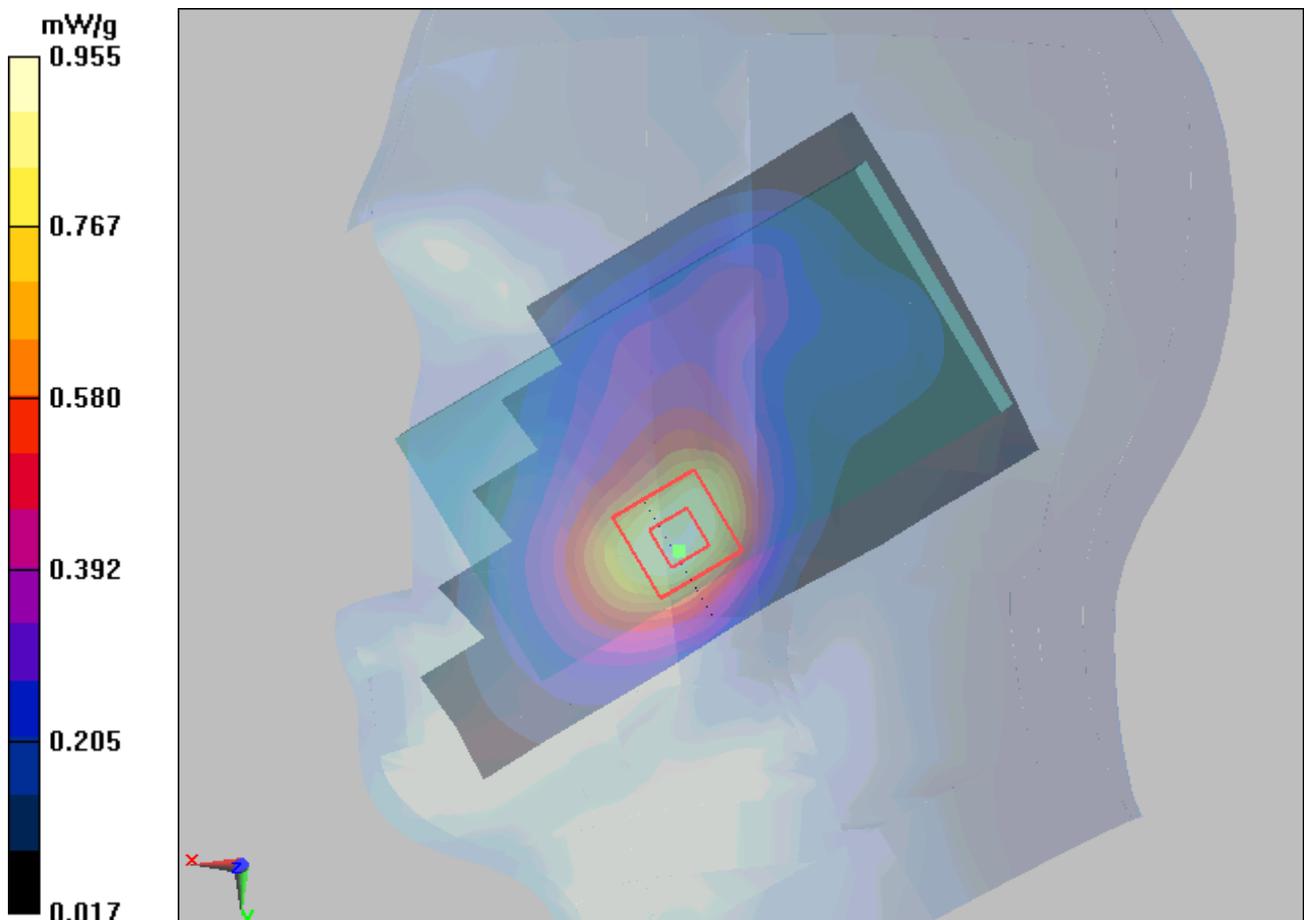


Figure 91 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 19150

TA Technology (Shanghai) Co., Ltd.
Test Report

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LTE Band 2 with 1 RB Right Cheek Middle (10MHz, SN: UWDC320XBGN01407, QPSK, Low end)

Date/Time: 10/9/2012 11:37:02 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.945 mW/g

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

Reference Value = 10.9 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 1.4 W/kg

SAR(1 g) = 0.879 mW/g; SAR(10 g) = 0.545 mW/g

Maximum value of SAR (measured) = 0.960 mW/g

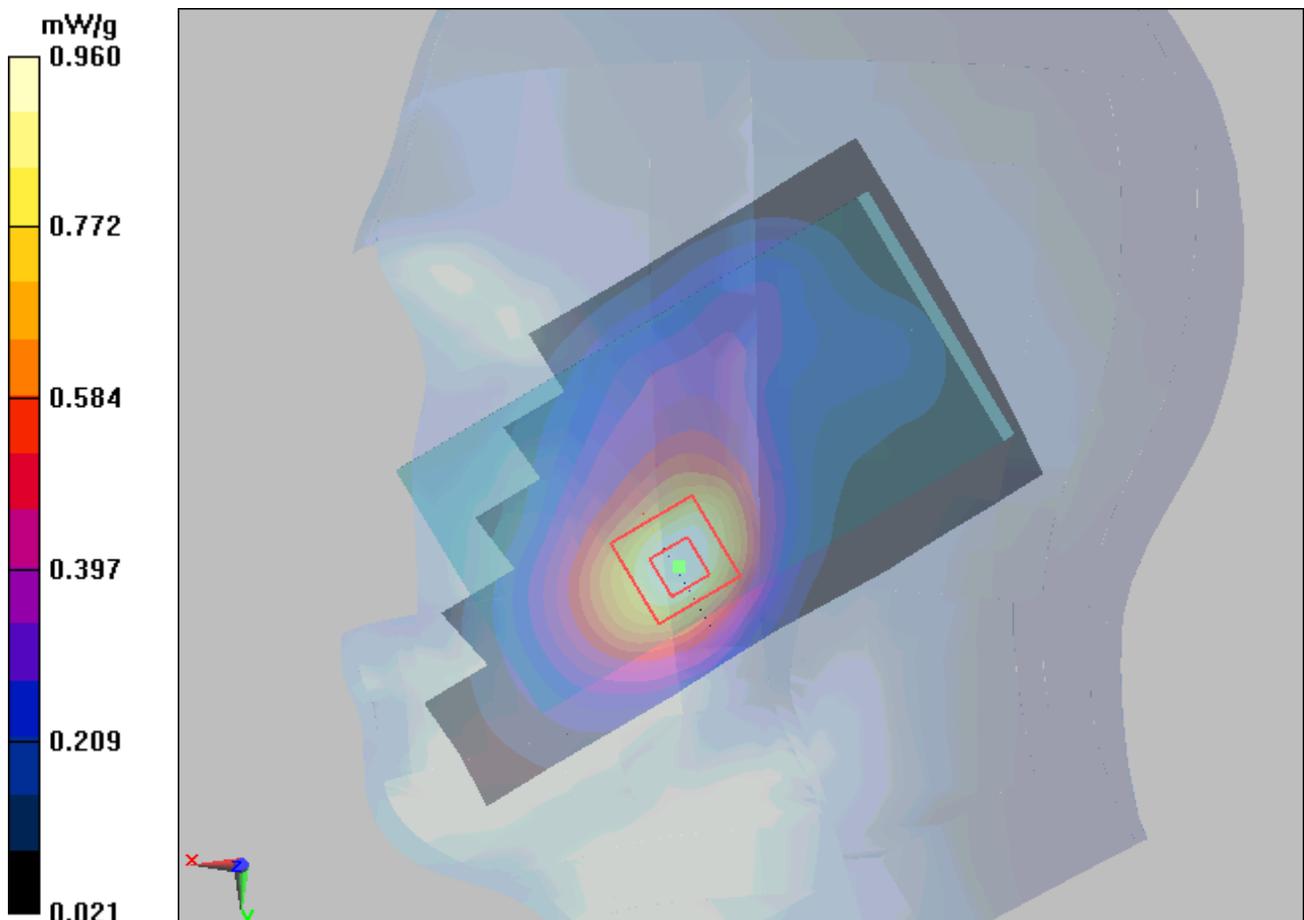


Figure 92 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18900

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 1 RB Right Cheek Low (10MHz, SN: UWDC320XBGN01407, QPSK, Low end)

Date/Time: 10/9/2012 11:53:47 AM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1855$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.962 mW/g

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

Reference Value = 11.8 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.574 mW/g

Maximum value of SAR (measured) = 0.958 mW/g

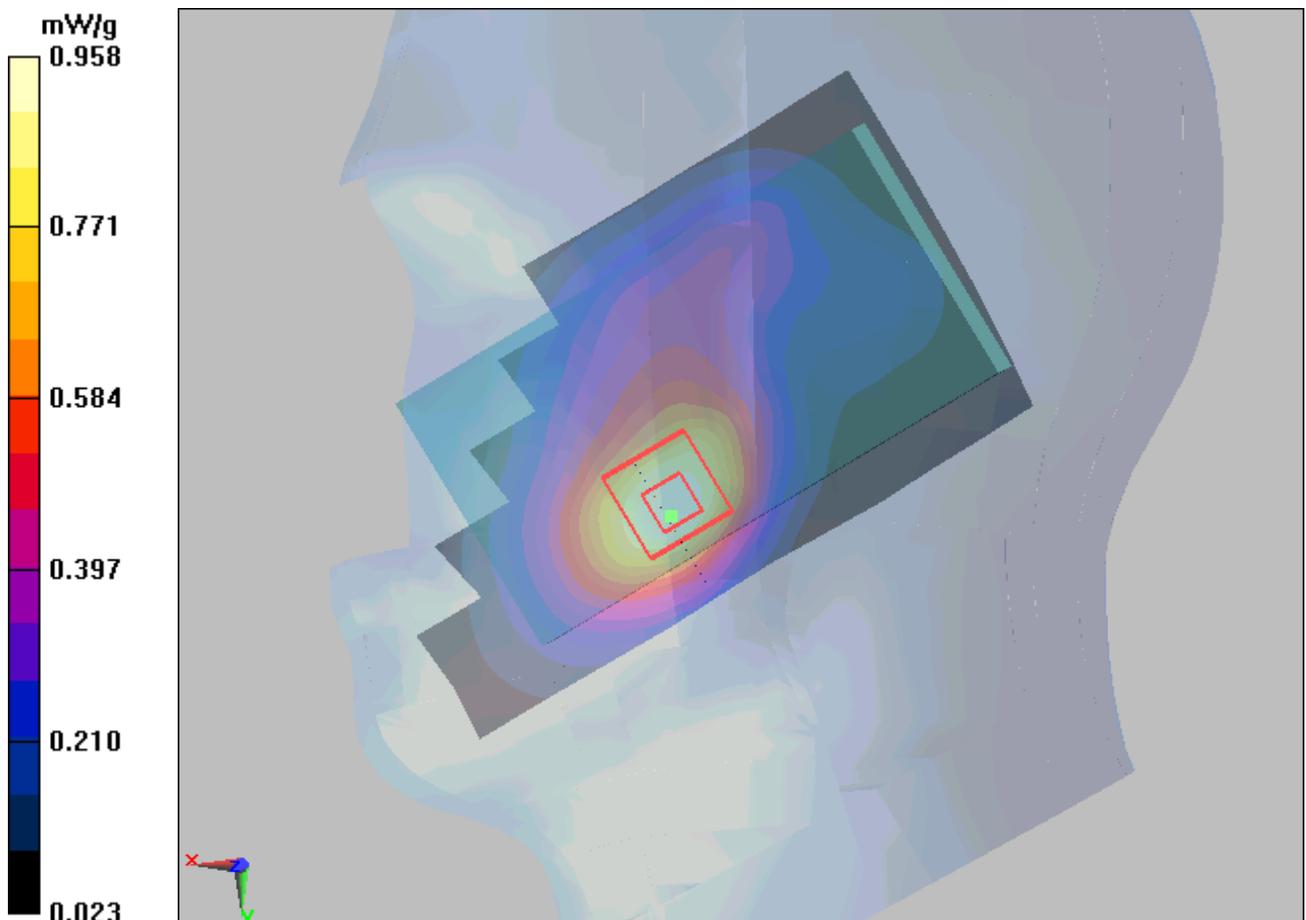


Figure 93 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18650

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 1 RB Right Cheek High (10MHz, SN: UWDC320XBGN01407, QPSK, High end)

Date/Time: 10/9/2012 12:10:43 PM

Communication System: LTE; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1905$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 8.56 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.782 mW/g; SAR(10 g) = 0.479 mW/g

Maximum value of SAR (measured) = 0.858 mW/g

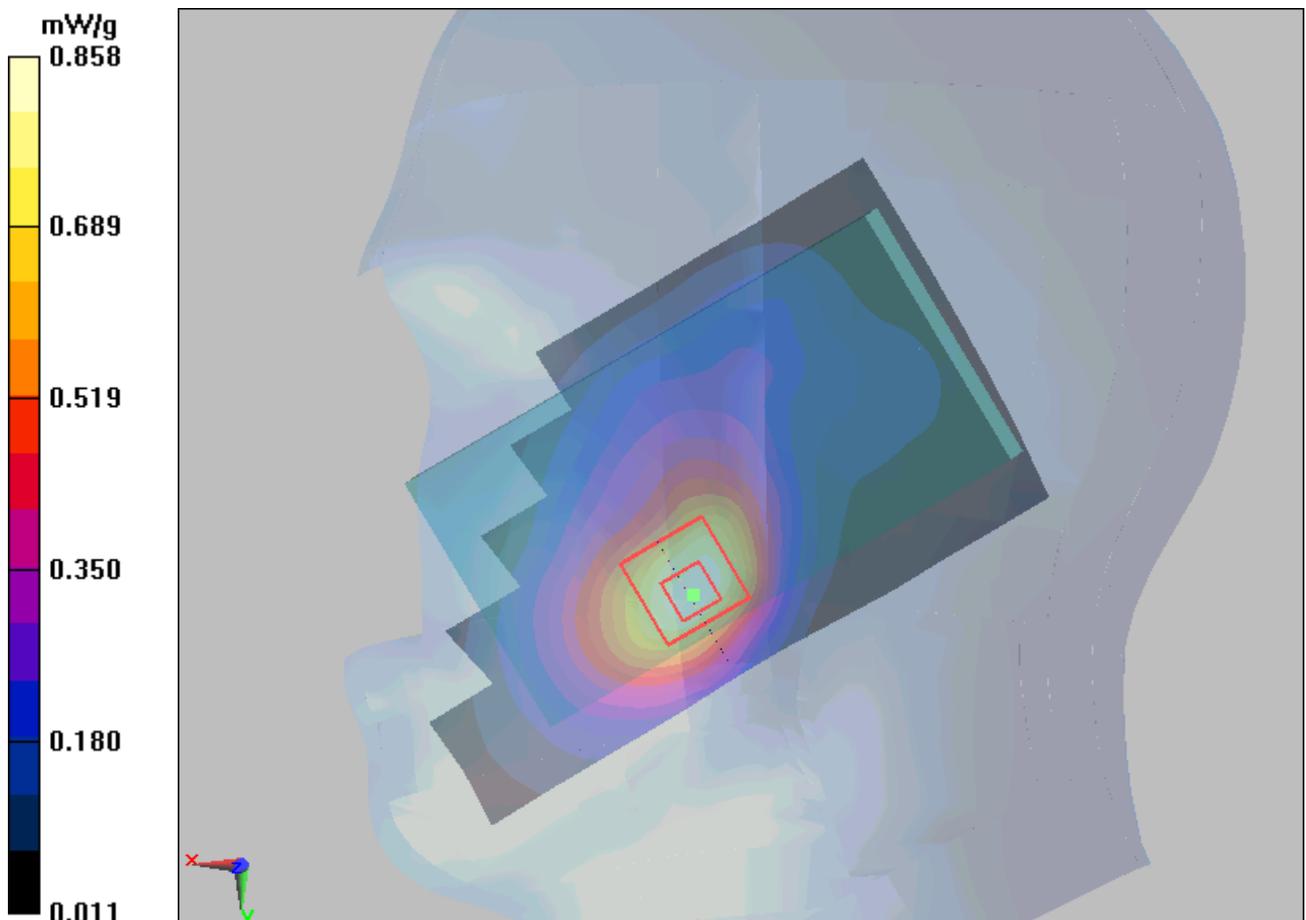


Figure 94 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 19150

TA Technology (Shanghai) Co., Ltd.
Test Report

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LTE Band 2 with 1 RB Right Cheek Middle (10MHz, SN: UWDC320XBGN01407, QPSK, High end)

Date/Time: 10/9/2012 12:27:27 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.08 mW/g

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

Reference Value = 10.4 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.620 mW/g

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

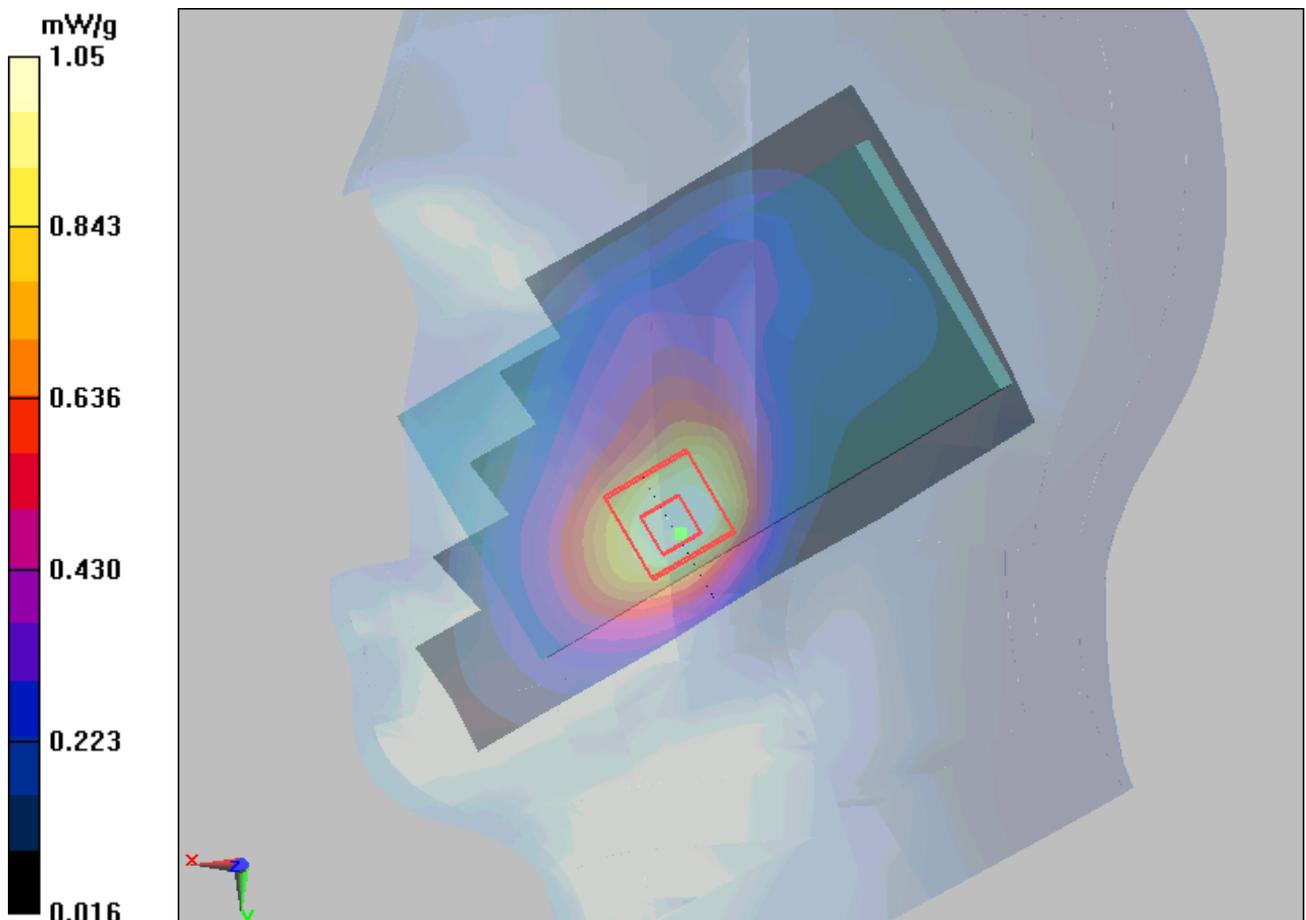


Figure 95 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18900

TA Technology (Shanghai) Co., Ltd.
Test Report

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LTE Band 2 with 1 RB Right Cheek Low (10MHz, SN: UWDC320XBGN01407, QPSK, High end)

Date/Time: 10/9/2012 12:42:12 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1855$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.16 mW/g

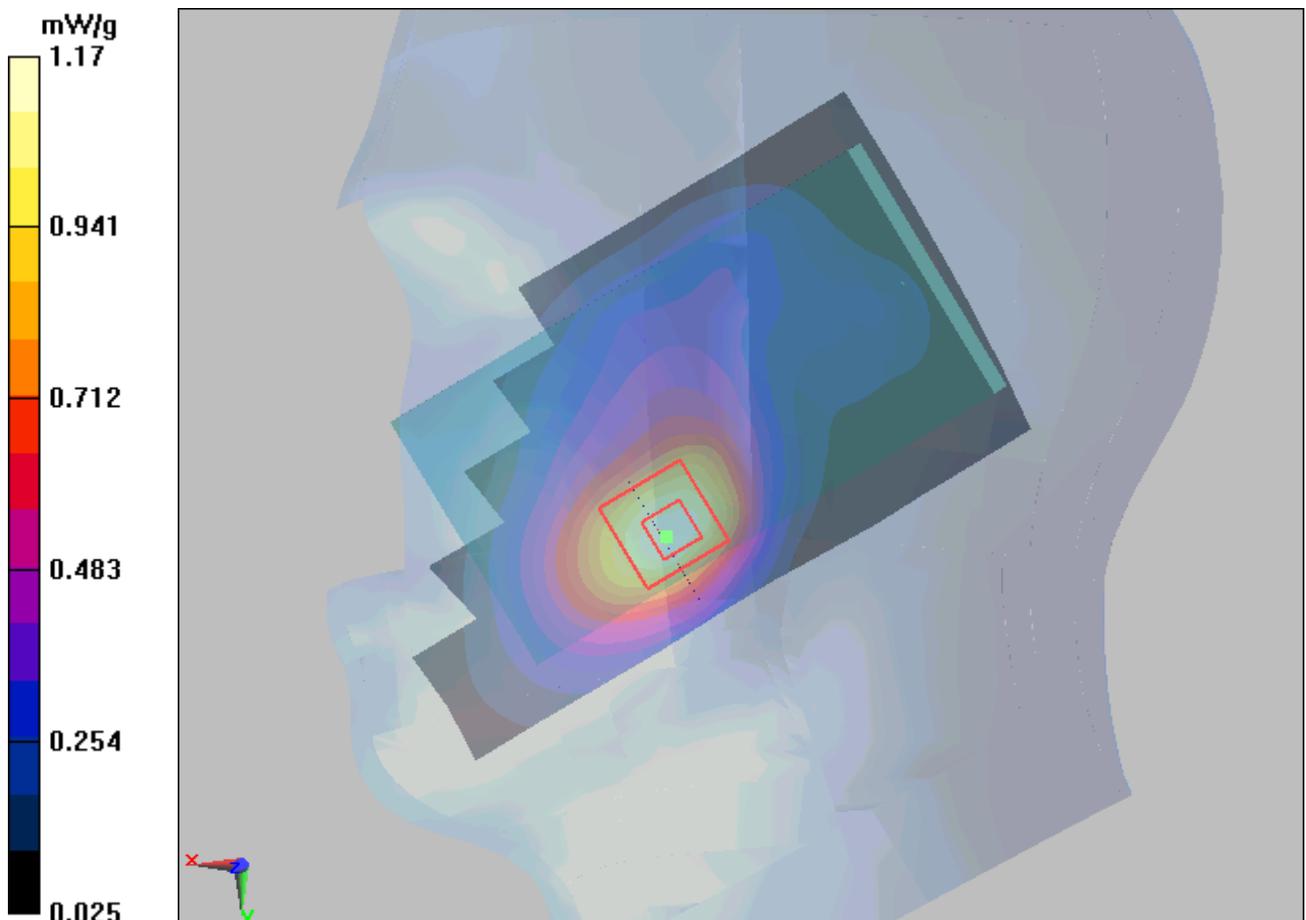
Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = 0.077 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.665 mW/g

Maximum value of SAR (measured) = 1.17 mW/g



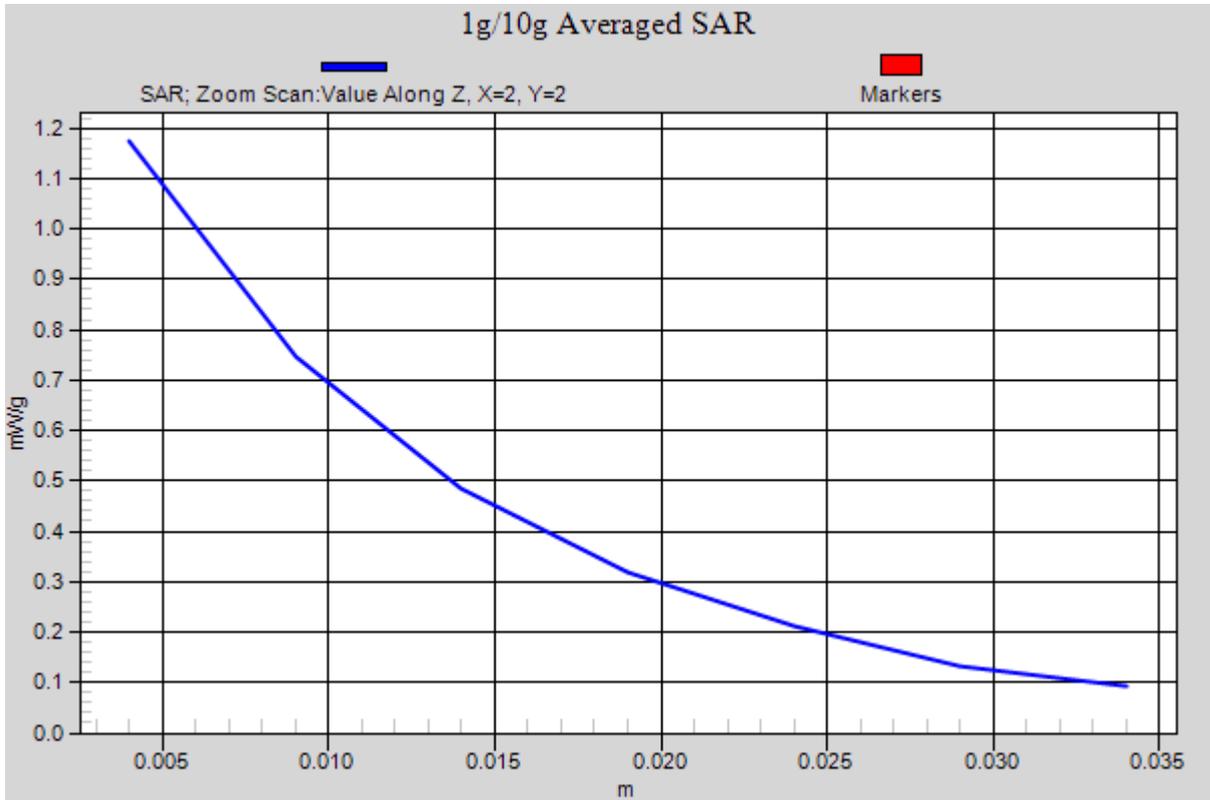


Figure 96 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18650

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 50% RB Right Cheek Low (10MHz, SN: UWDC320XBGN01407, 16QAM)

Date/Time: 10/9/2012 12:59:01 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1855$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.634 mW/g

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

Reference Value = 9.15 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.918 W/kg

SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.359 mW/g

Maximum value of SAR (measured) = 0.629 mW/g

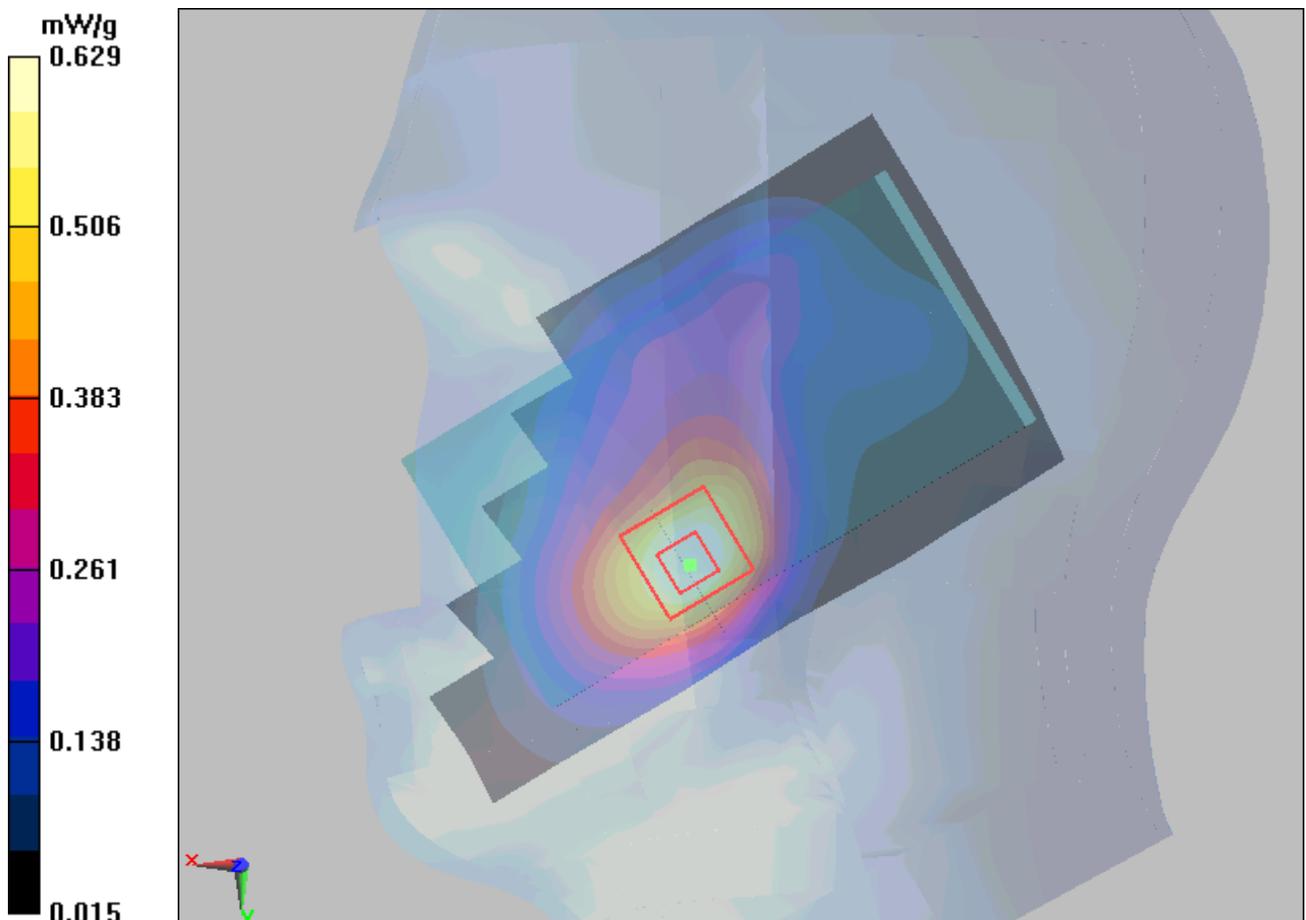


Figure 97 LTE Band 2 with 50% RB Right Hand Touch Cheek Channel 18650

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 1 RB Right Cheek Low (10MHz, SN: UWDC320XBGN01407, 16QAM, Low end)

Date/Time: 10/9/2012 1:20:45 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1855$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.699 mW/g

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

Reference Value = 9.92 V/m; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.684 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.724 mW/g

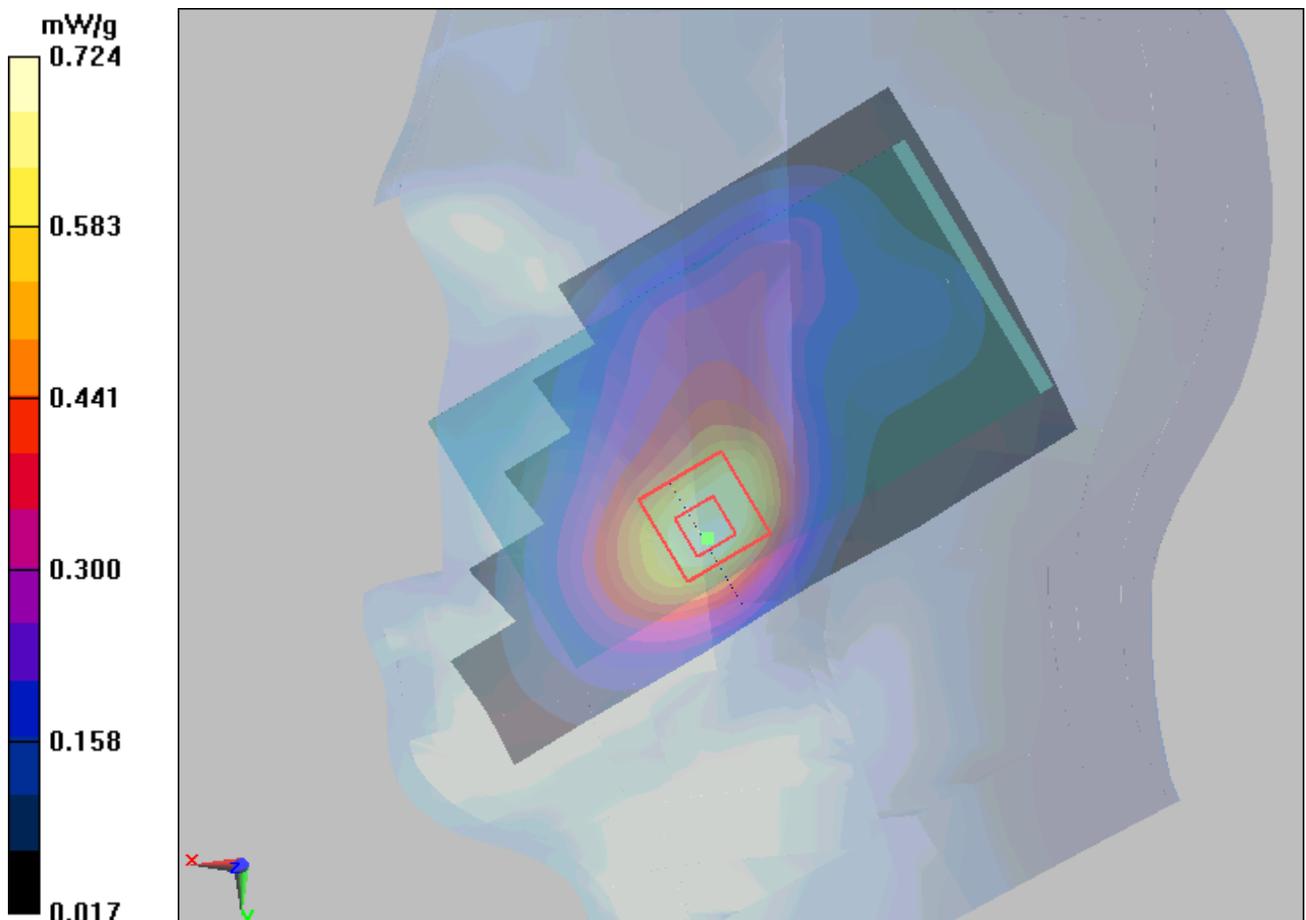


Figure 98 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18650

TA Technology (Shanghai) Co., Ltd.
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LTE Band 2 with 1 RB Right Cheek Low (10MHz, SN: UWDC320XBGN01407, 16QAM, High end)

Date/Time: 10/9/2012 1:38:23 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1855$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 mW/g

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

Reference Value = 10.5 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.579 mW/g

Maximum value of SAR (measured) = 1 mW/g

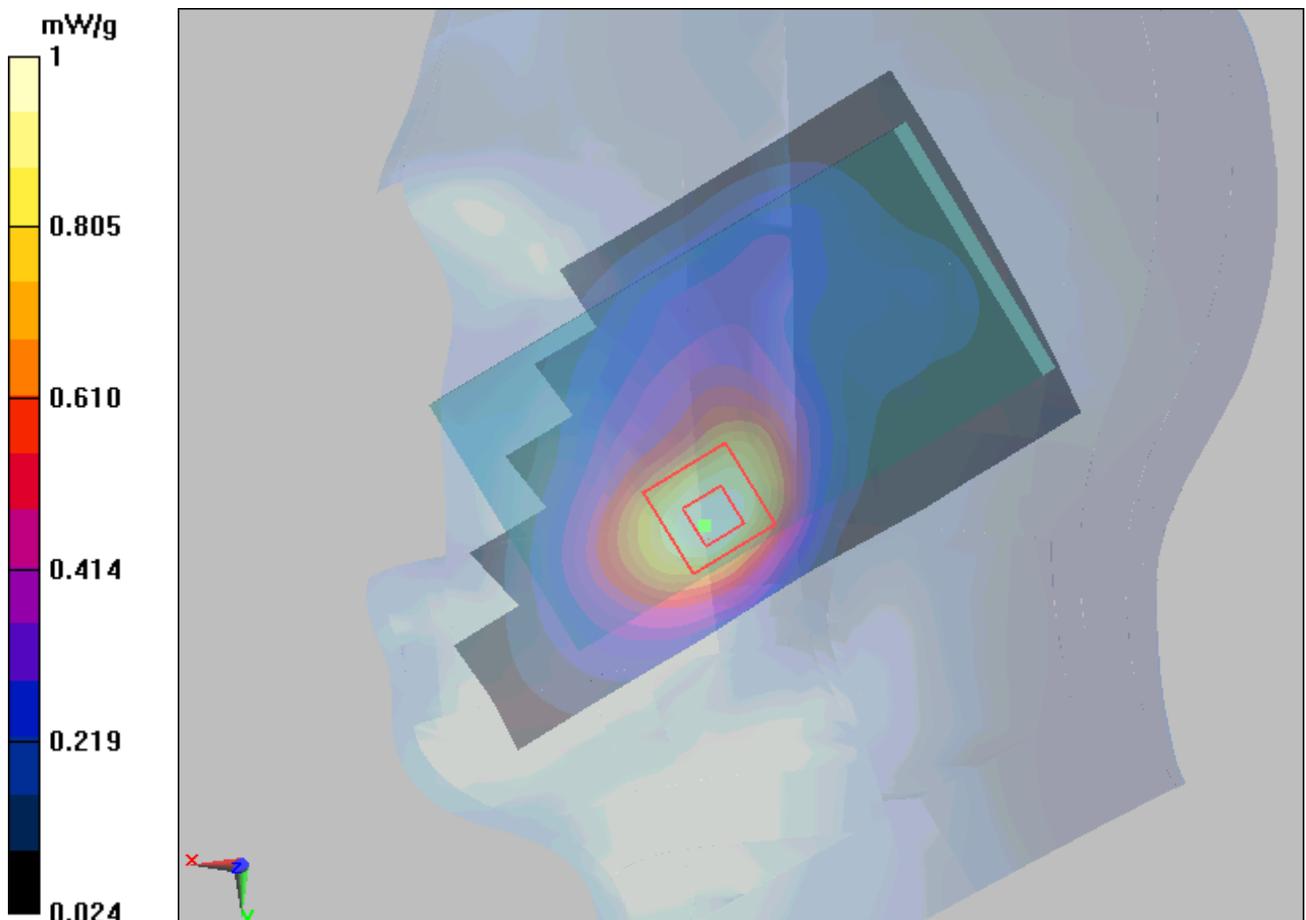


Figure 99 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18650

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 1 RB Right Cheek Low (10MHz, SN: MAIC702X03600810, QPSK, High end)

Date/Time: 10/9/2012 1:55:06 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1855$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.04 mW/g

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

Reference Value = 10.1 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.962 mW/g; SAR(10 g) = 0.590 mW/g

Maximum value of SAR (measured) = 1.000 mW/g

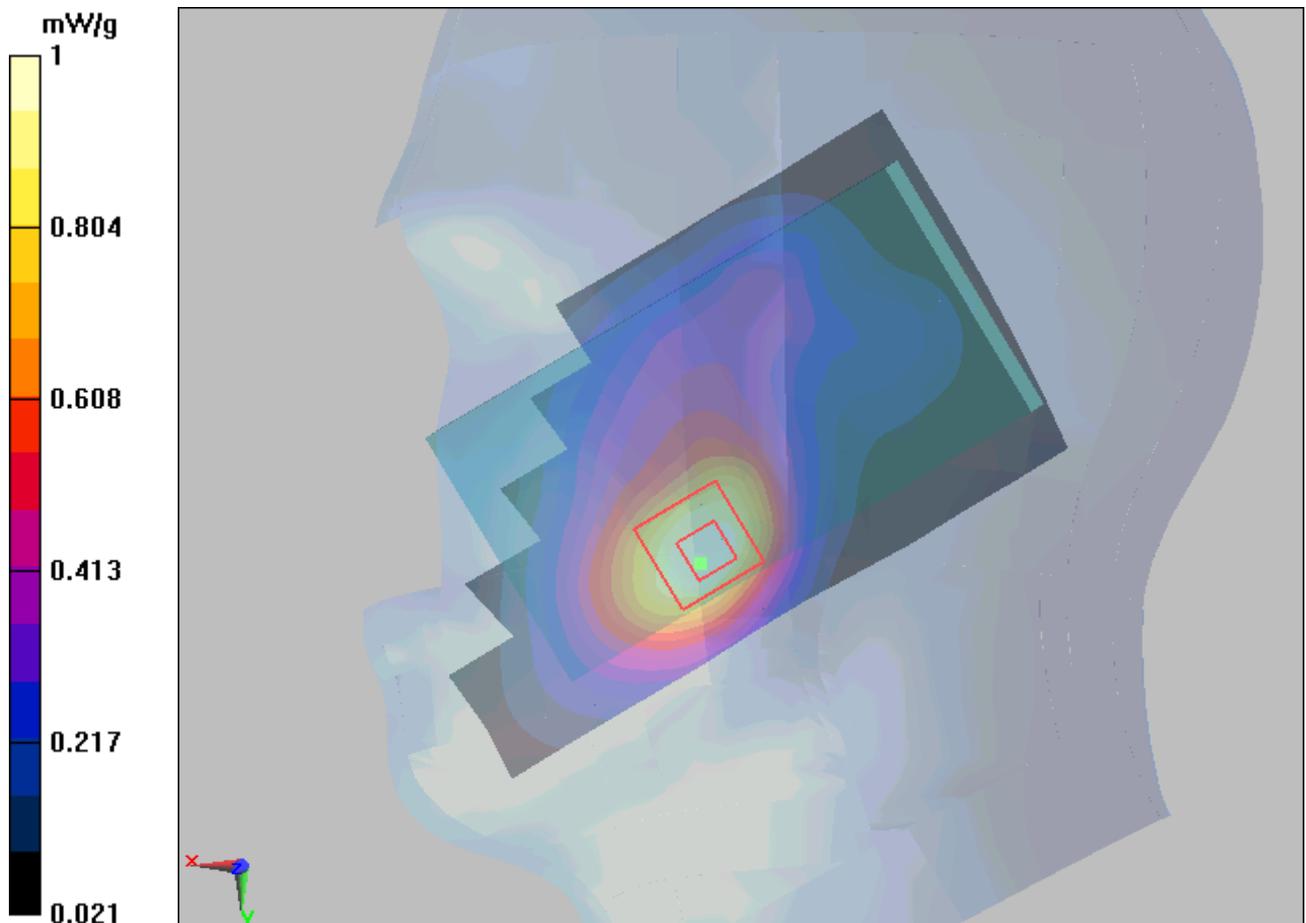


Figure 100 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18650

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LTE Band 2 with 50% RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 10:35:06 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.697 mW/g

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

Reference Value = 9.12 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.398 mW/g

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

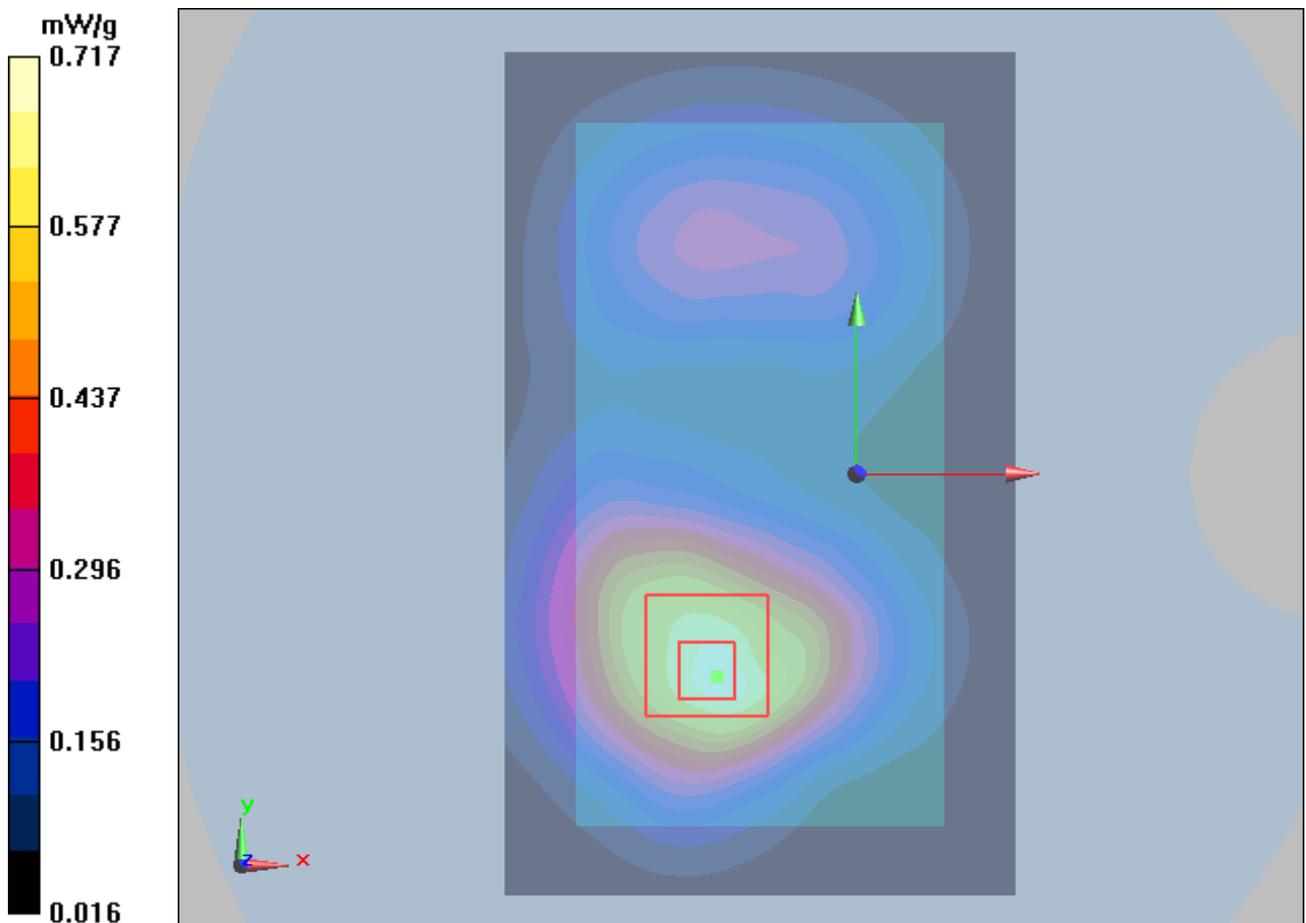


Figure 101 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 50% RB Front Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 11:42:26 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.535 mW/g

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

Reference Value = 9.34 V/m; Power Drift = -0.126 dB

Peak SAR (extrapolated) = 0.797 W/kg

SAR(1 g) = 0.488 mW/g; SAR(10 g) = 0.304 mW/g

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

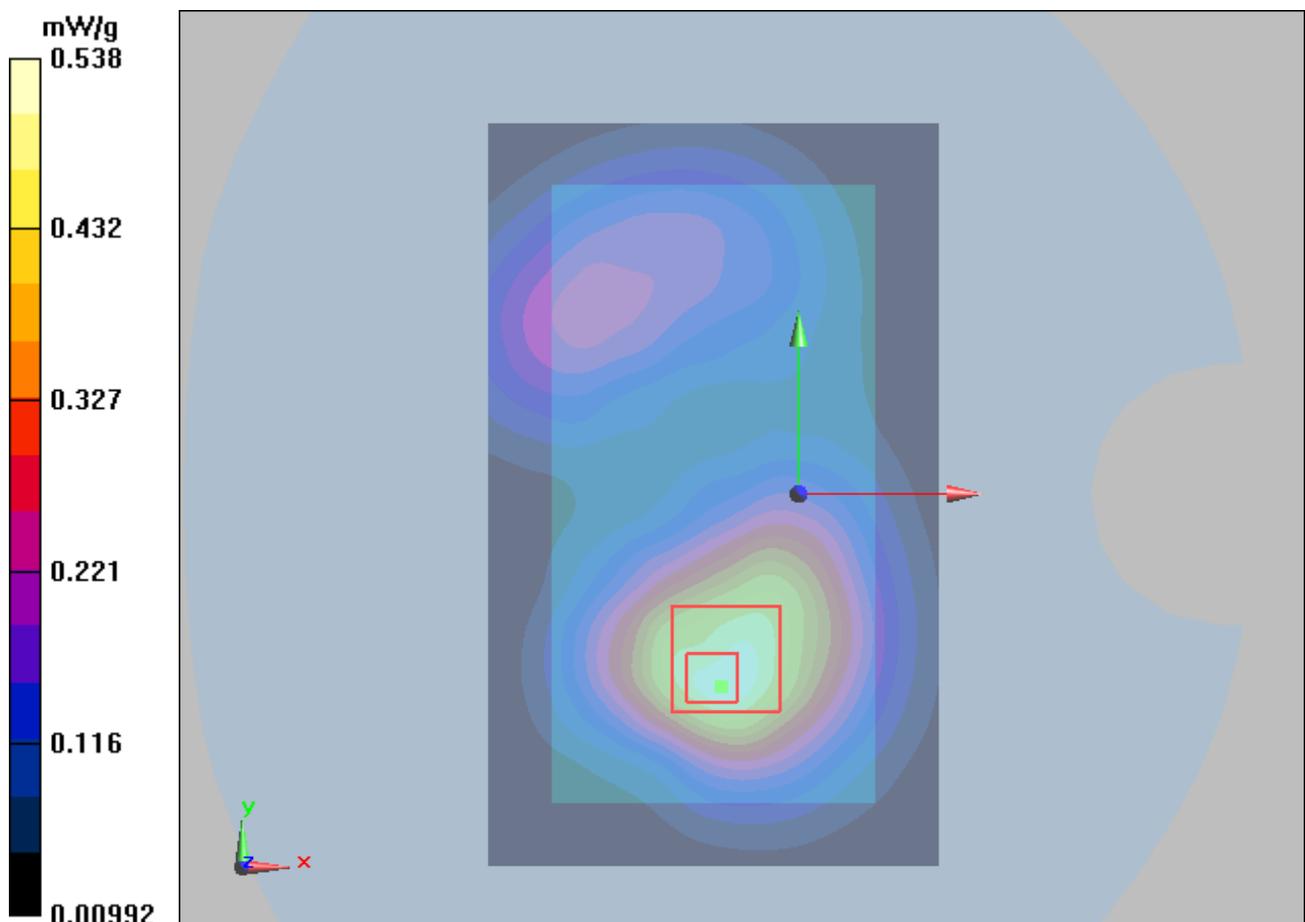


Figure 102 Body, LTE Band 2 with 50% RB Front Side Channel 18900

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LTE Band 2 with 50% RB Right Edge Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 12:00:55 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Edge Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.422 mW/g

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

Reference Value = 12.5 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.675 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.219 mW/g

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

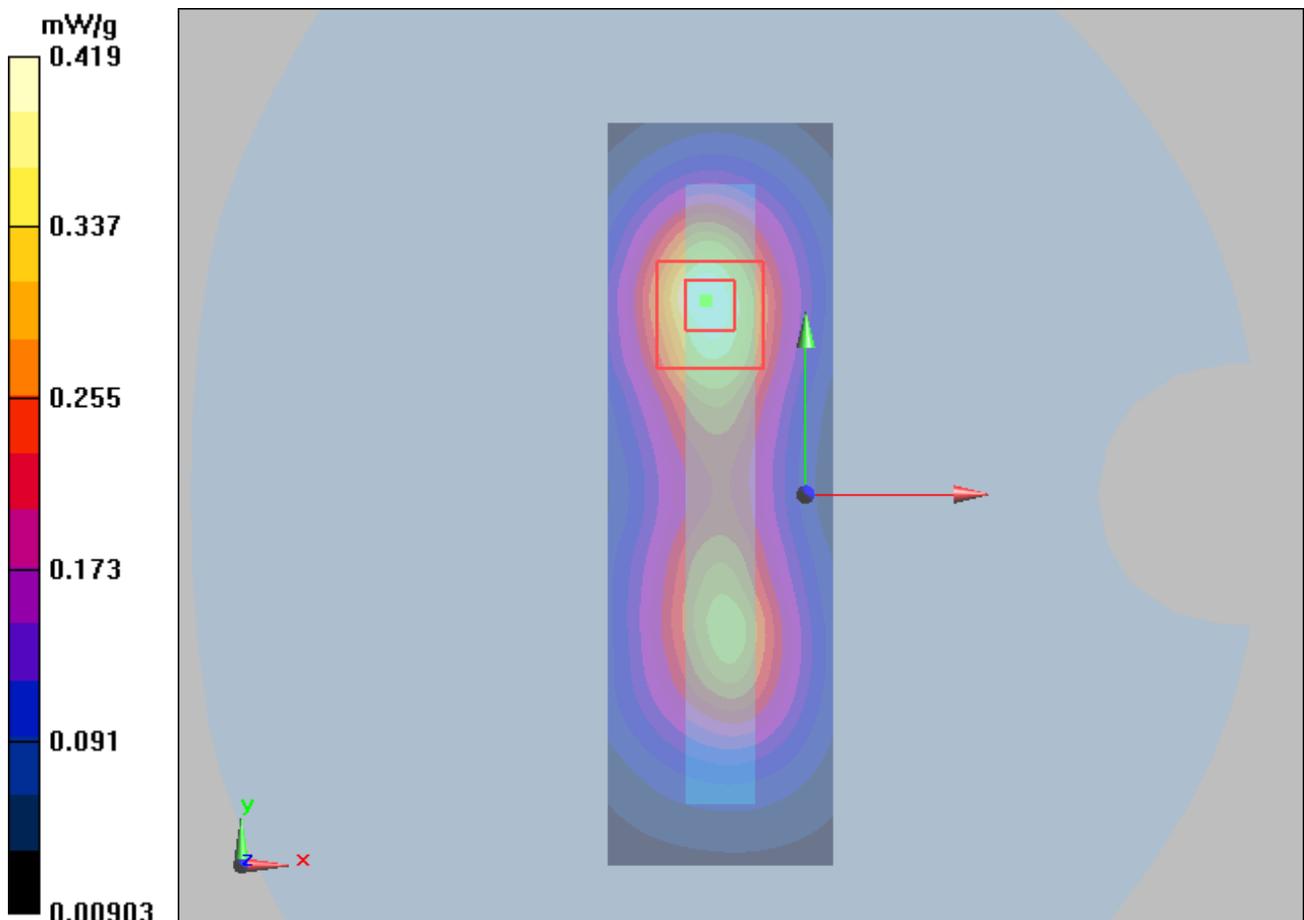


Figure 103 Body, LTE Band 2 with 50% RB Right Edge Channel 18900

TA Technology (Shanghai) Co., Ltd.
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LTE Band 2 with 50% RB Bottom Edge Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/11/2012 12:17:32 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Edge Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.126 mW/g

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

Reference Value = 7.47 V/m; Power Drift = -0.00631 dB

Peak SAR (extrapolated) = 0.197 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.123 mW/g

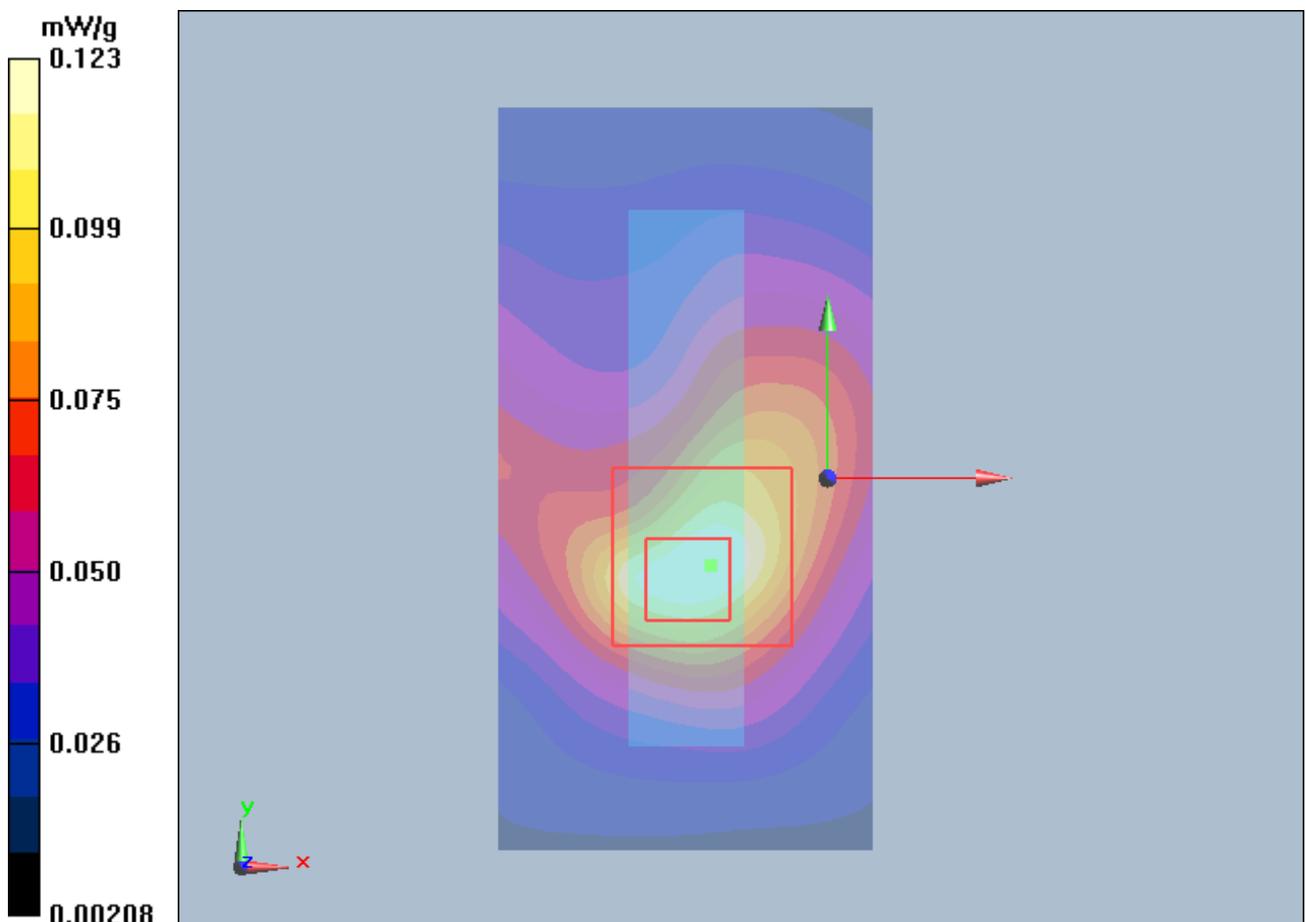


Figure 104 Body, LTE Band 2 with 50% RB Bottom Edge Channel 18900

TA Technology (Shanghai) Co., Ltd.
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LTE Band 2 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, QPSK, Low end)

Date/Time: 10/11/2012 12:35:04 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.744 mW/g

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

Reference Value = 8.94 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.987 W/kg

SAR(1 g) = 0.628 mW/g; SAR(10 g) = 0.401 mW/g

Maximum value of SAR (measured) = 0.670 mW/g

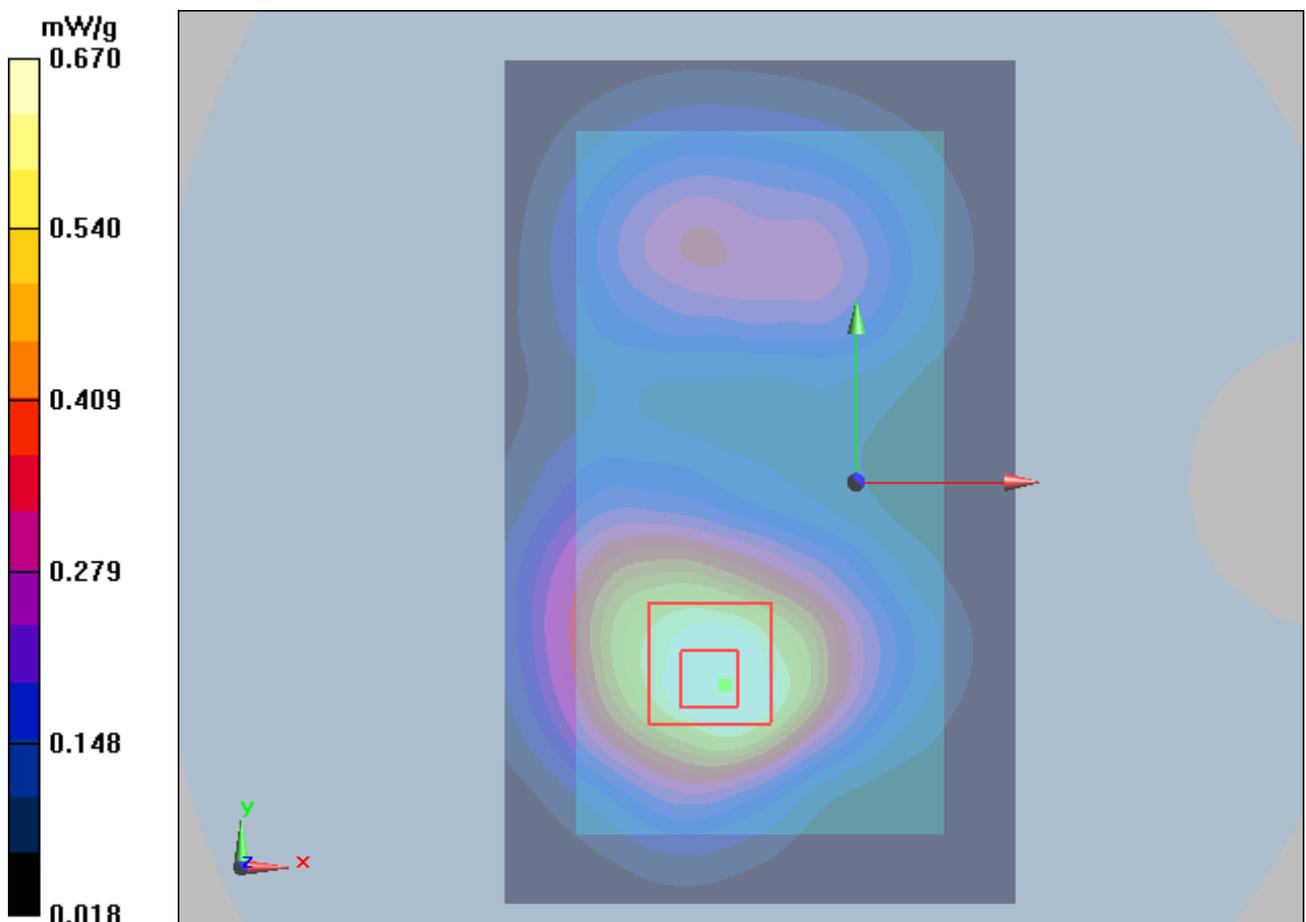


Figure 105 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, QPSK, High end)

Date/Time: 10/11/2012 9:33:00 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.744 mW/g

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

Reference Value = 13.7 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.972 W/kg

SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.413 mW/g

Maximum value of SAR (measured) = 0.691 mW/g

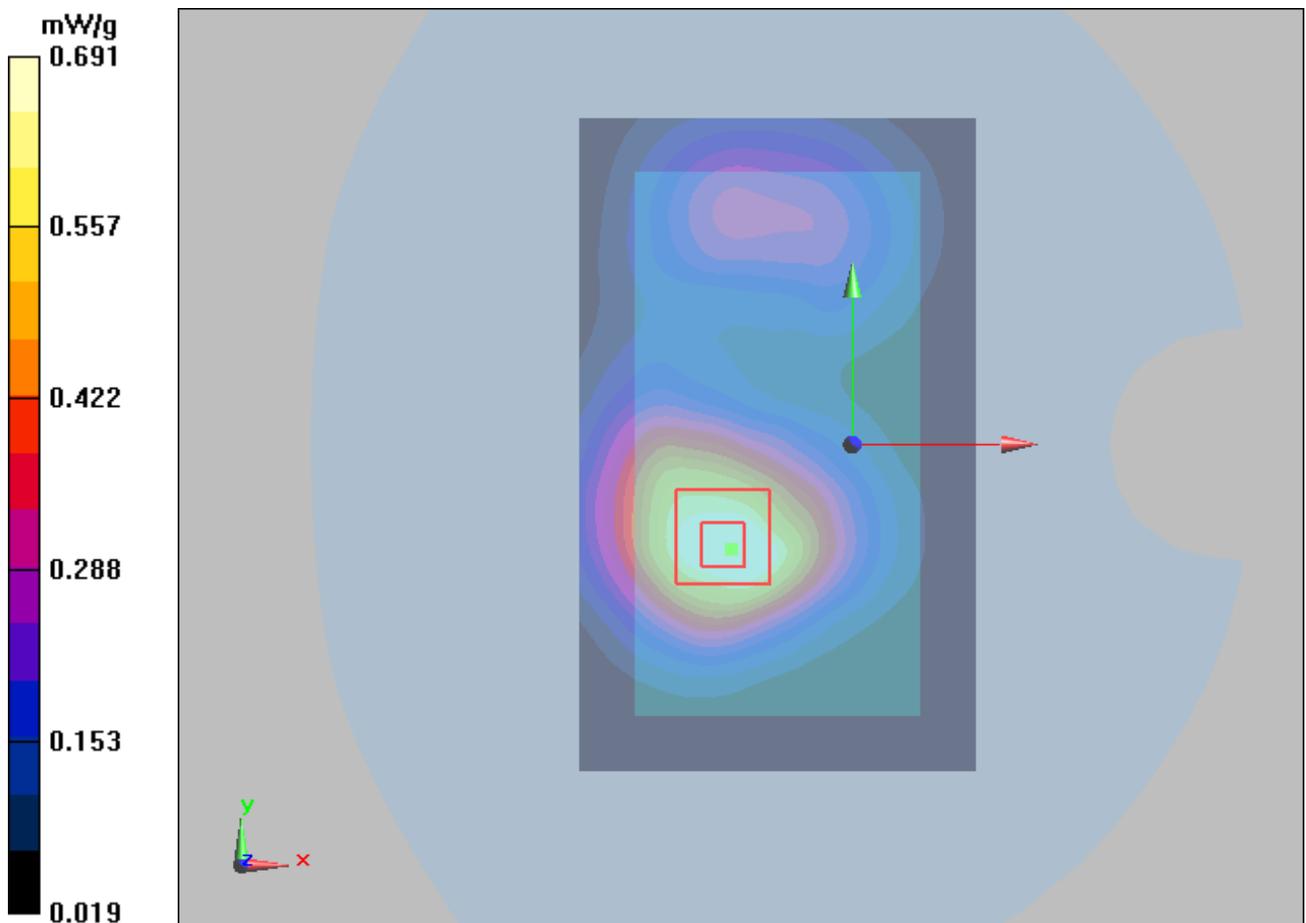


Figure 106 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM)

Date/Time: 10/11/2012 12:53:47 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.715 mW/g

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

Reference Value = 8.12 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.952 W/kg

SAR(1 g) = 0.639 mW/g; SAR(10 g) = 0.407 mW/g

Maximum value of SAR (measured) = 0.676 mW/g

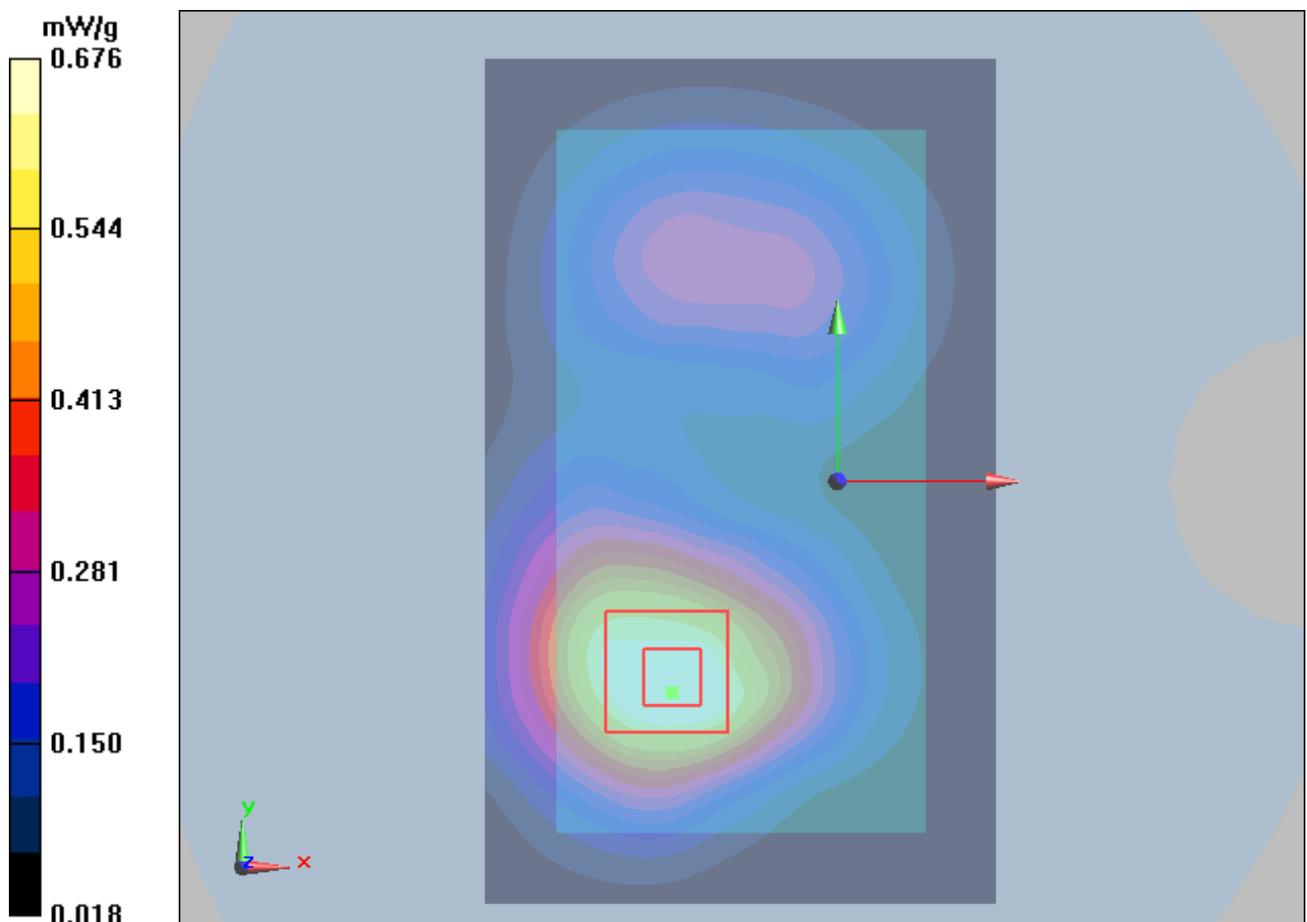


Figure 107 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, Low end)

Date/Time: 10/11/2012 2:50:00 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.678 mW/g

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

Reference Value = 7.92 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.925 W/kg

SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.385 mW/g

Maximum value of SAR (measured) = 0.639 mW/g

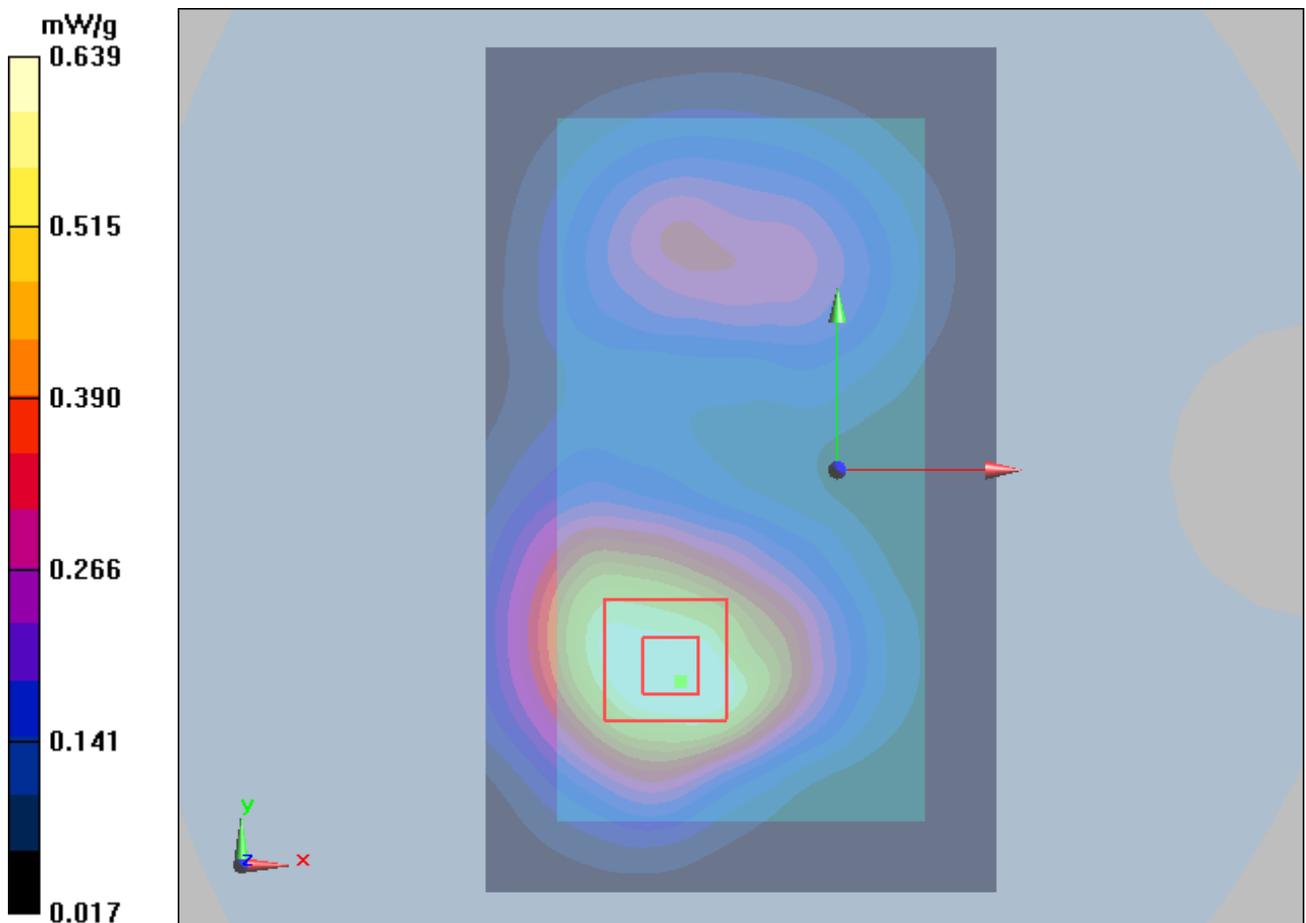


Figure 108 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, High end)

Date/Time: 10/11/2012 9:51:18 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.725 mW/g

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

Reference Value = 13.4 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.962 W/kg

SAR(1 g) = 0.643 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 0.693 mW/g

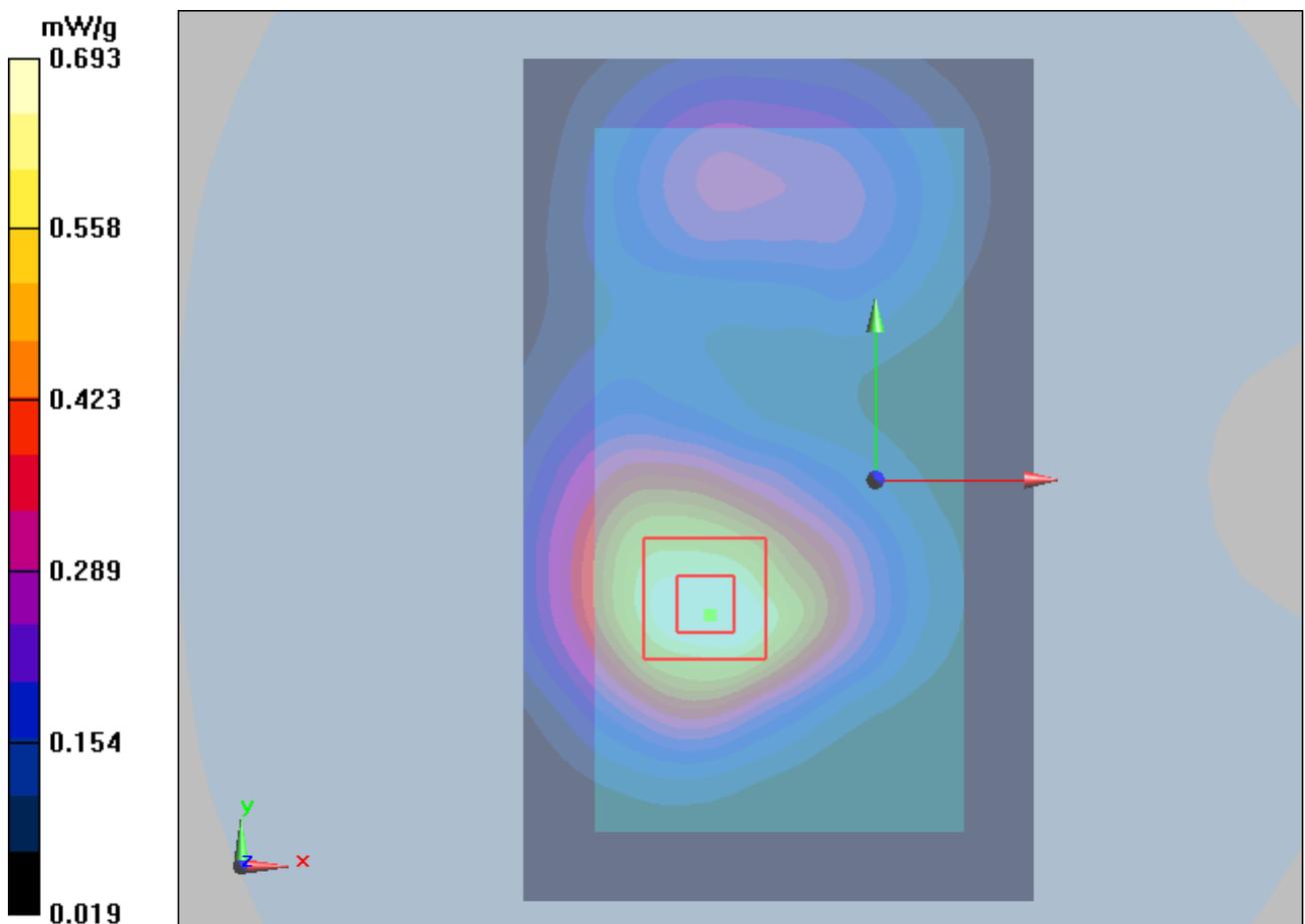


Figure 109 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/11/2012 4:51:08 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.667 mW/g

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

Reference Value = 9.31 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 0.928 W/kg

SAR(1 g) = 0.614 mW/g; SAR(10 g) = 0.394 mW/g

Maximum value of SAR (measured) = 0.658 mW/g

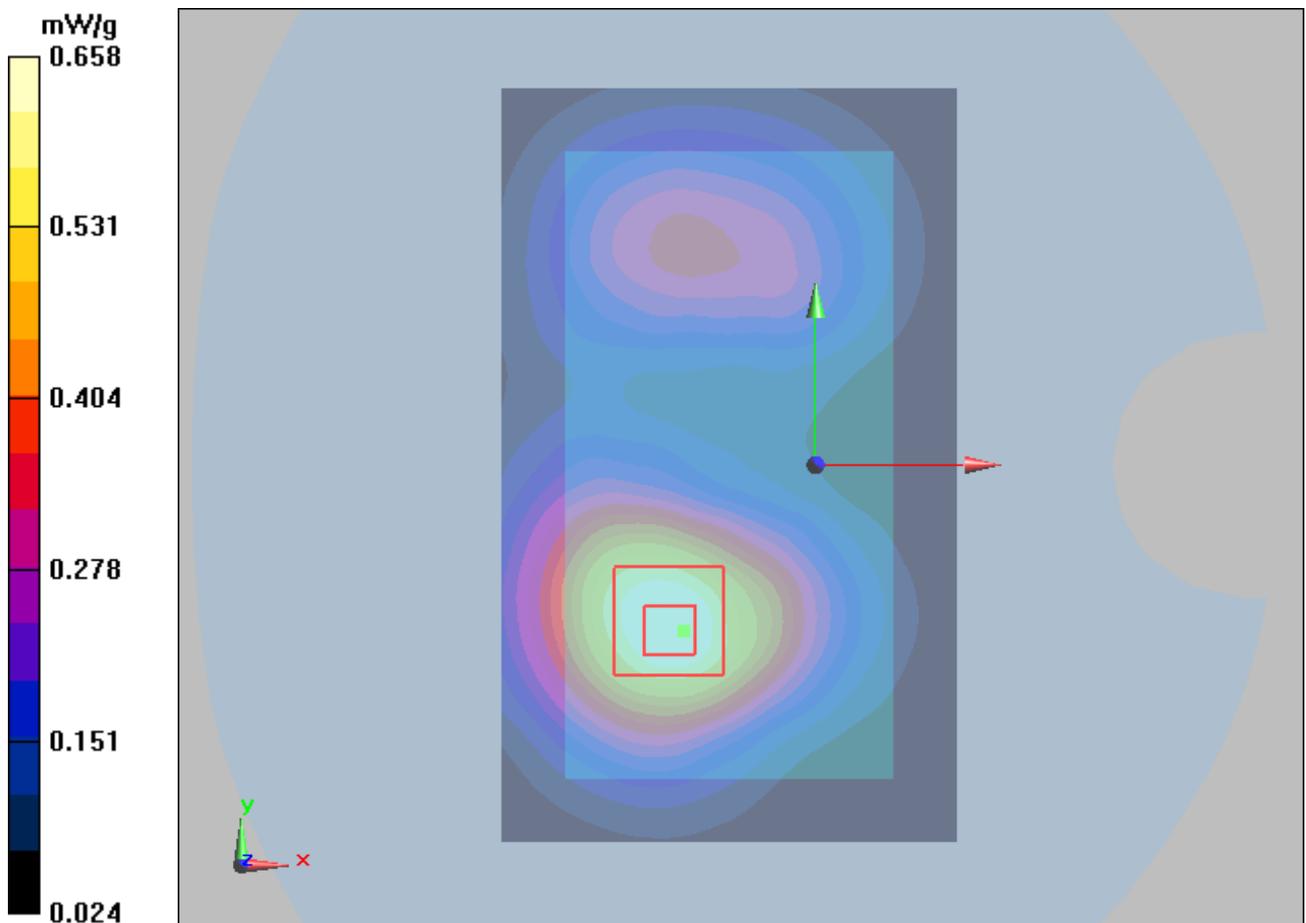


Figure 110 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 50% RB Front Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/11/2012 5:08:59 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.531 mW/g

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

Reference Value = 8.06 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.702 W/kg

SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.309 mW/g

Maximum value of SAR (measured) = 0.507 mW/g

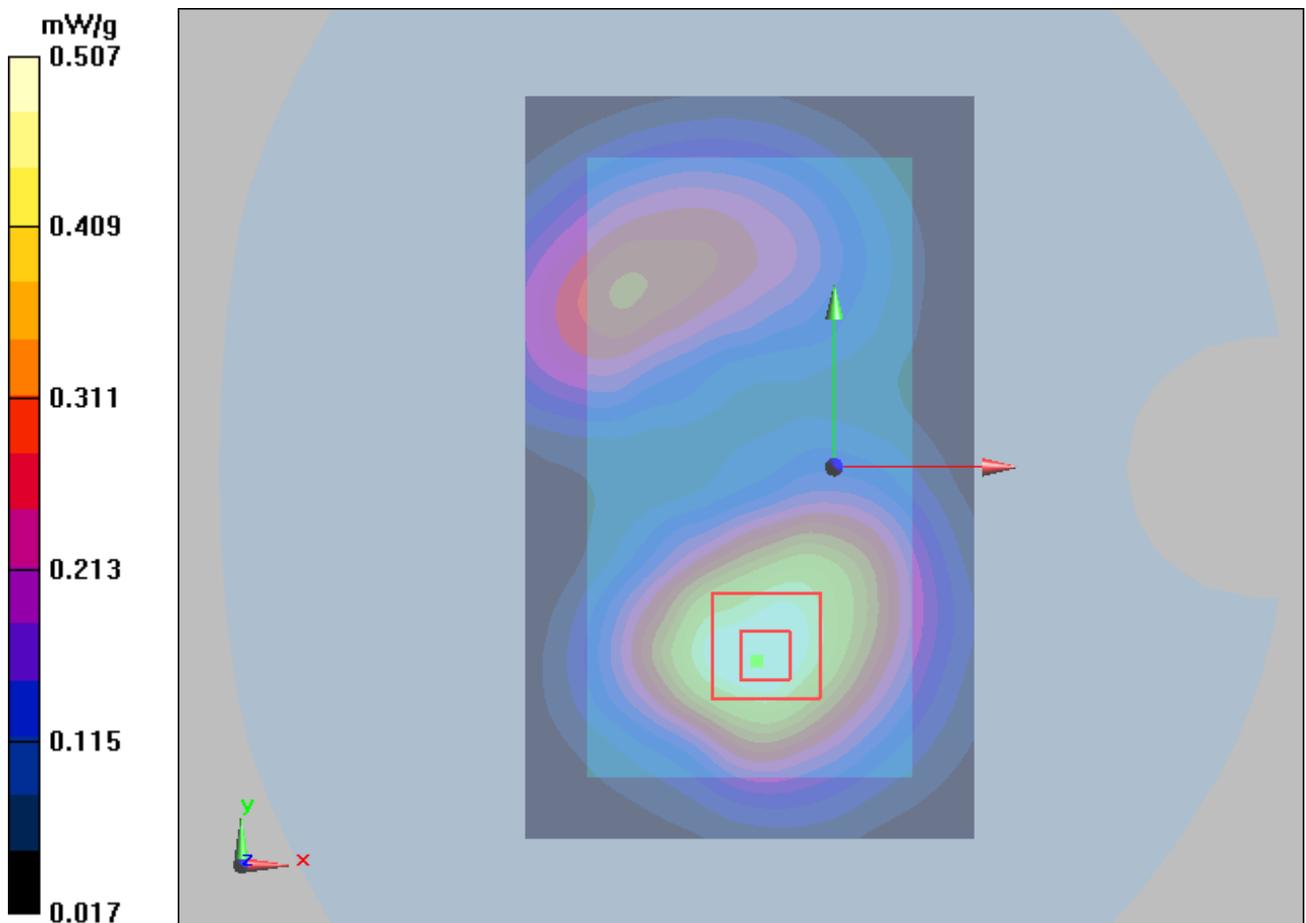


Figure 111 Body, LTE Band 2 with 50% RB Front Side Channel 18900

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LTE Band 2 with 50% RB and Earphone Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/11/2012 5:25:25 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.563 mW/g

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

Reference Value = 13 V/m; Power Drift = 0.184 dB

Peak SAR (extrapolated) = 0.750 W/kg

SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.332 mW/g

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

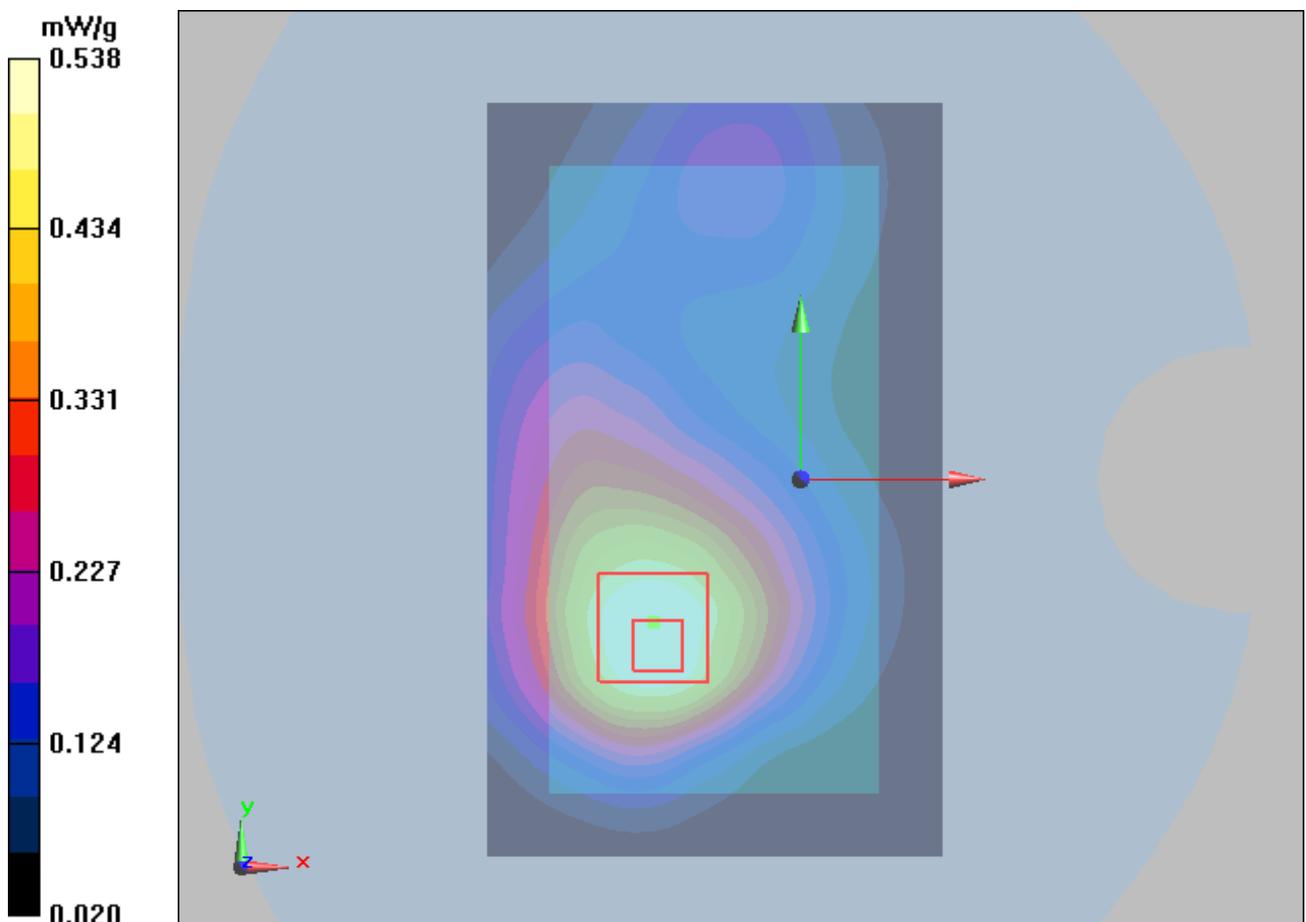


Figure 112 Body, LTE Band 2 with 50% RB and Earphone Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, QPSK, Low end)

Date/Time: 10/11/2012 10:54:34 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.773 mW/g

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

Reference Value = 11.5 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.443 mW/g

Maximum value of SAR (measured) = 0.741 mW/g

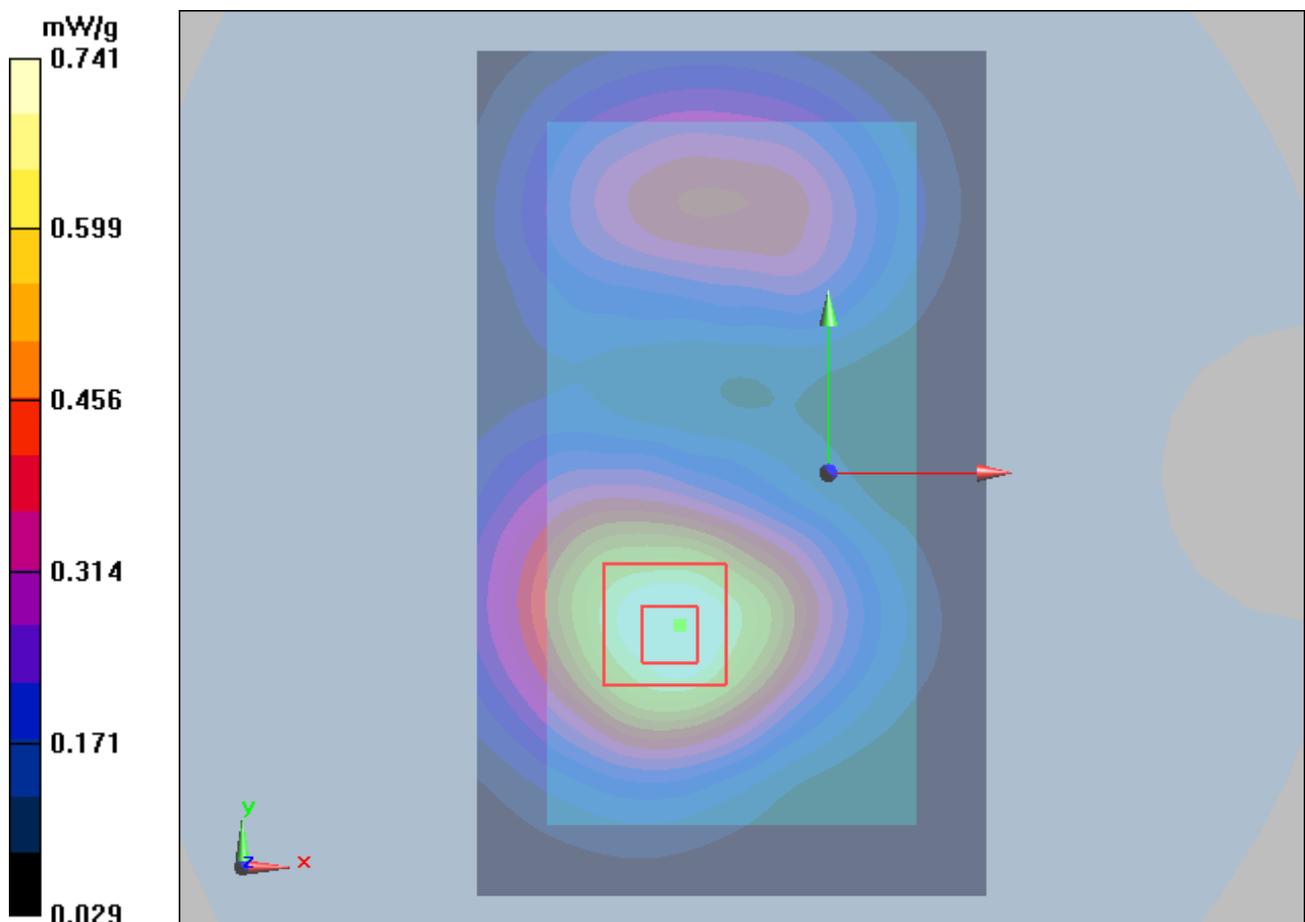


Figure 113 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, QPSK, High end)

Date/Time: 10/11/2012 11:10:21 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.773 mW/g

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

Reference Value = 12.4 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.445 mW/g

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

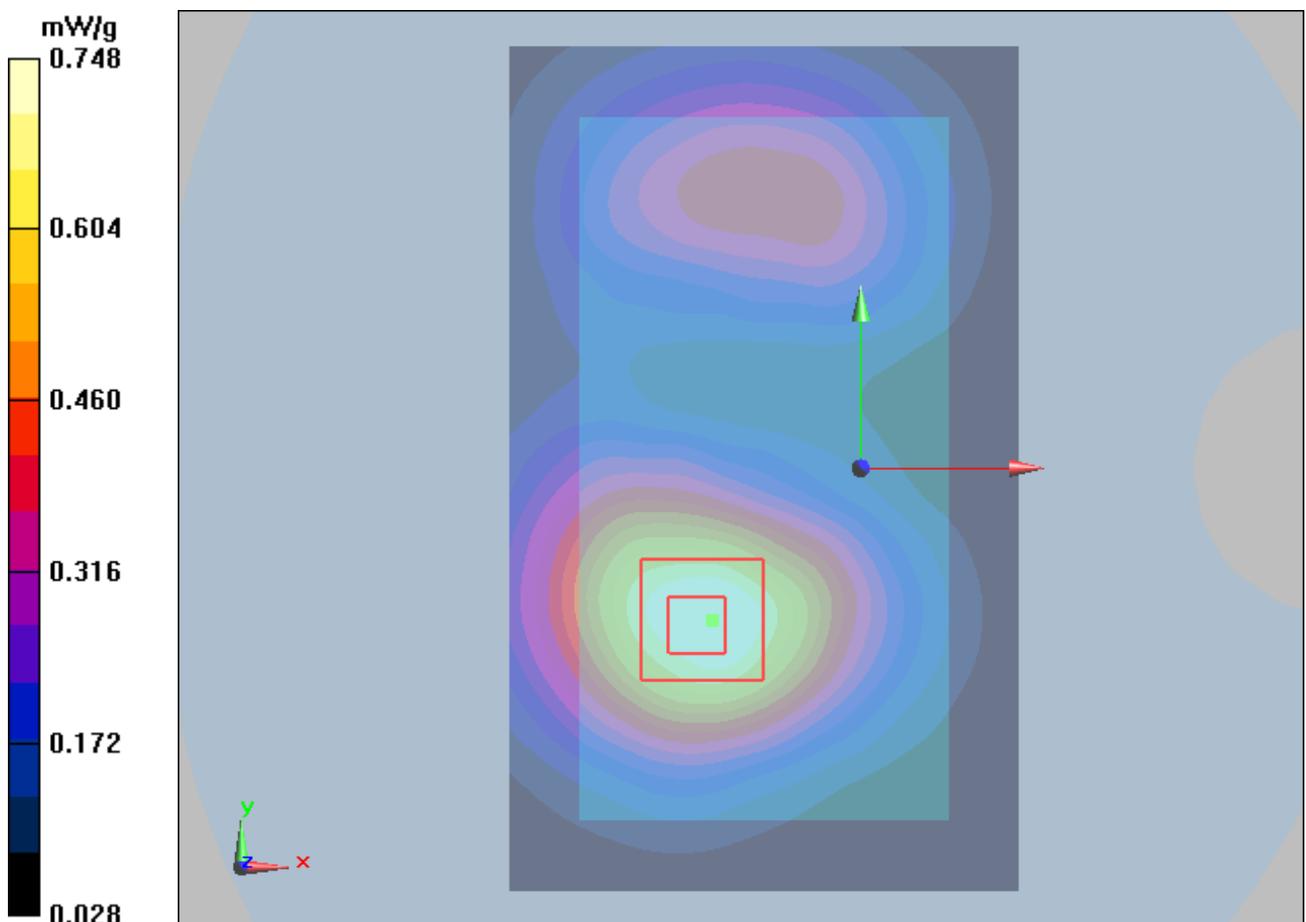


Figure 114 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM)

Date/Time: 10/11/2012 1:41:04 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.499 mW/g

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

Reference Value = 9.51 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 0.717 W/kg

SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.297 mW/g

Maximum value of SAR (measured) = 0.493 mW/g

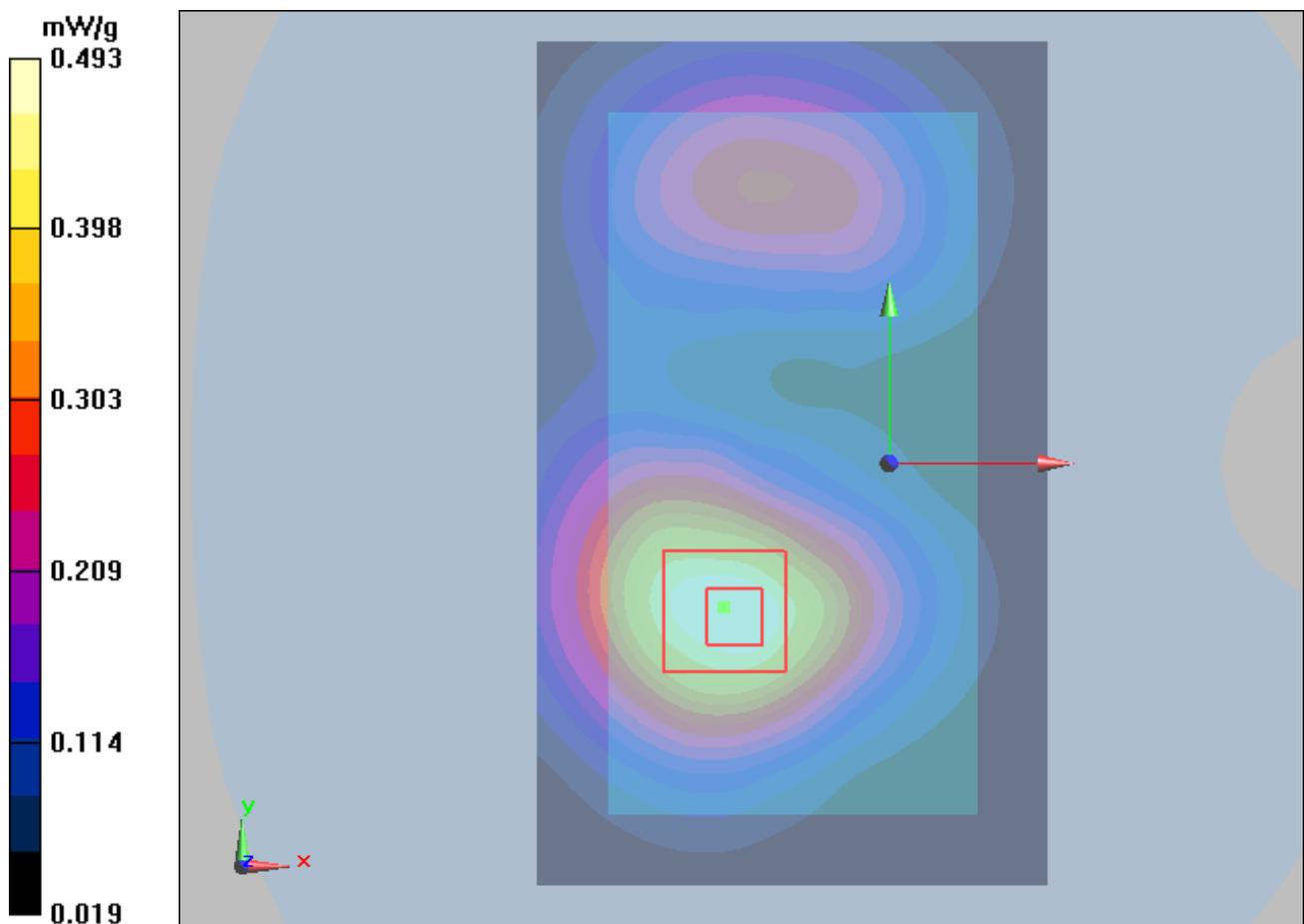


Figure 115 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM, Low end)

Date/Time: 10/11/2012 11:26:48 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.573 mW/g

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

Reference Value = 10.4 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 0.794 W/kg

SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.340 mW/g

Maximum value of SAR (measured) = 0.562 mW/g

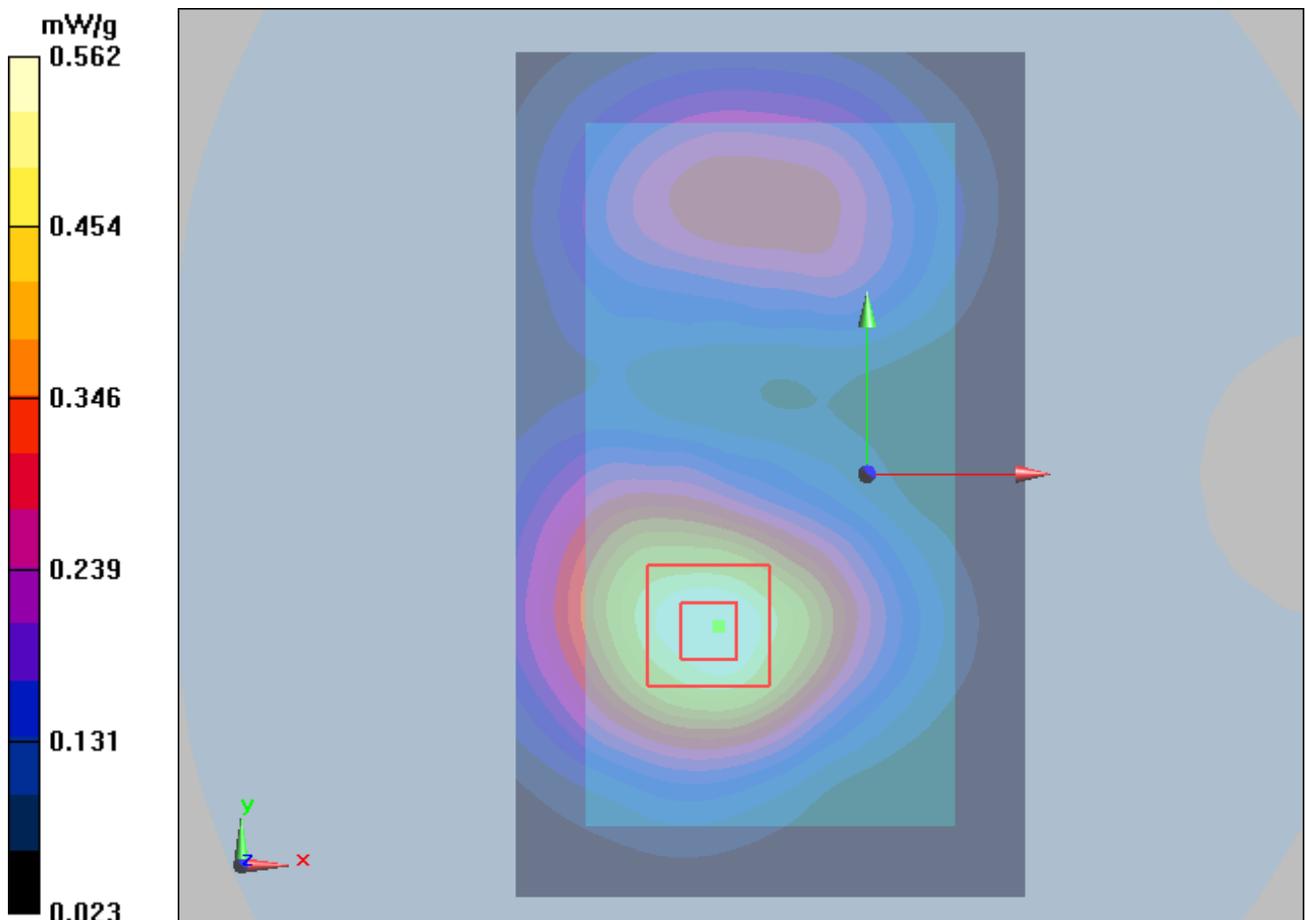


Figure 116 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM, High end)

Date/Time: 10/11/2012 1:24:50 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.634 mW/g

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

Reference Value = 11.3 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.932 W/kg

SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.387 mW/g

Maximum value of SAR (measured) = 0.634 mW/g

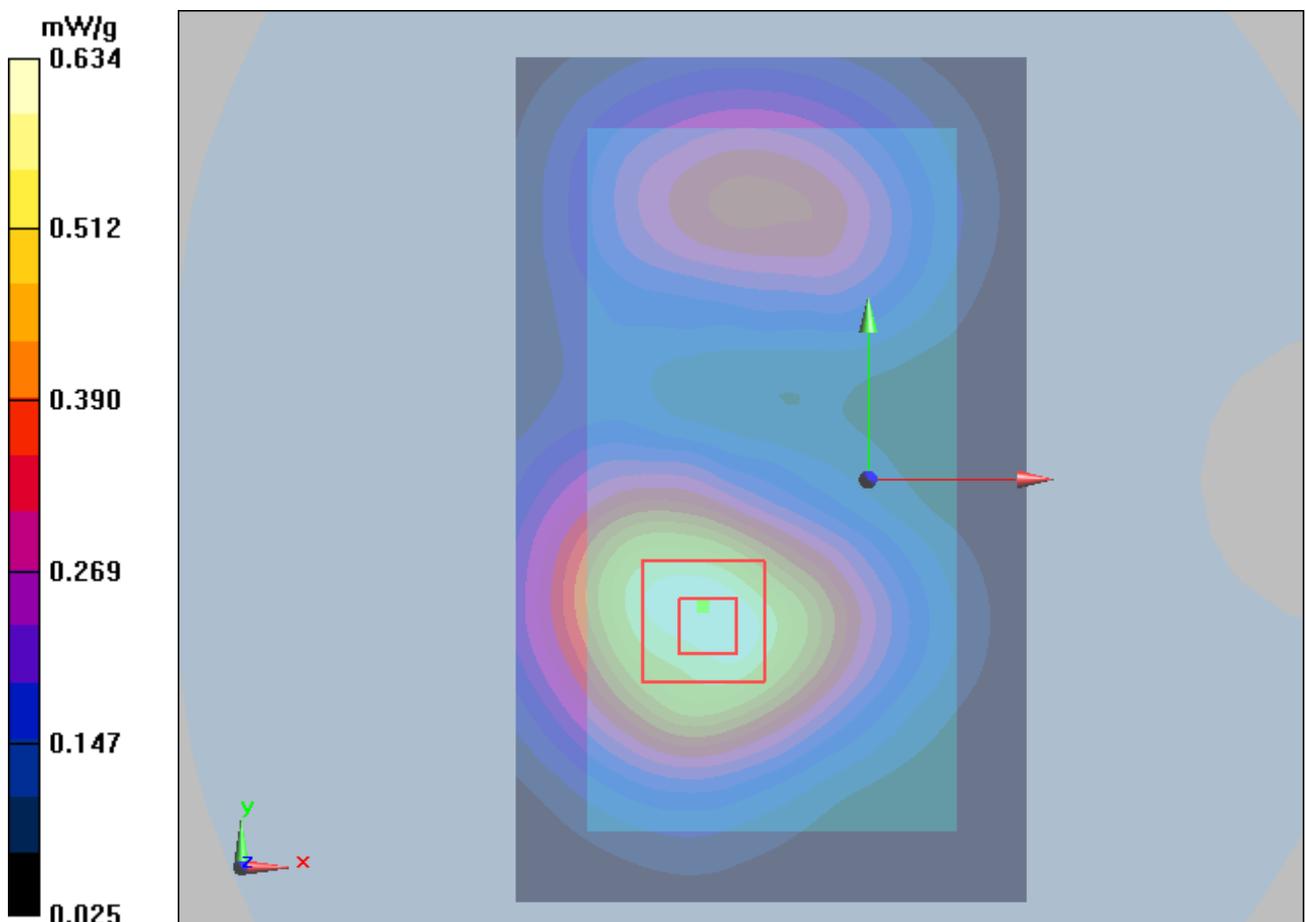


Figure 117 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side High (10MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 11/26/2012 7:35:44 PM

Communication System: LTE; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1905$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

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

Reference Value = 10.3 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.966 mW/g; SAR(10 g) = 0.601 mW/g

Maximum value of SAR (measured) = 1.04 mW/g

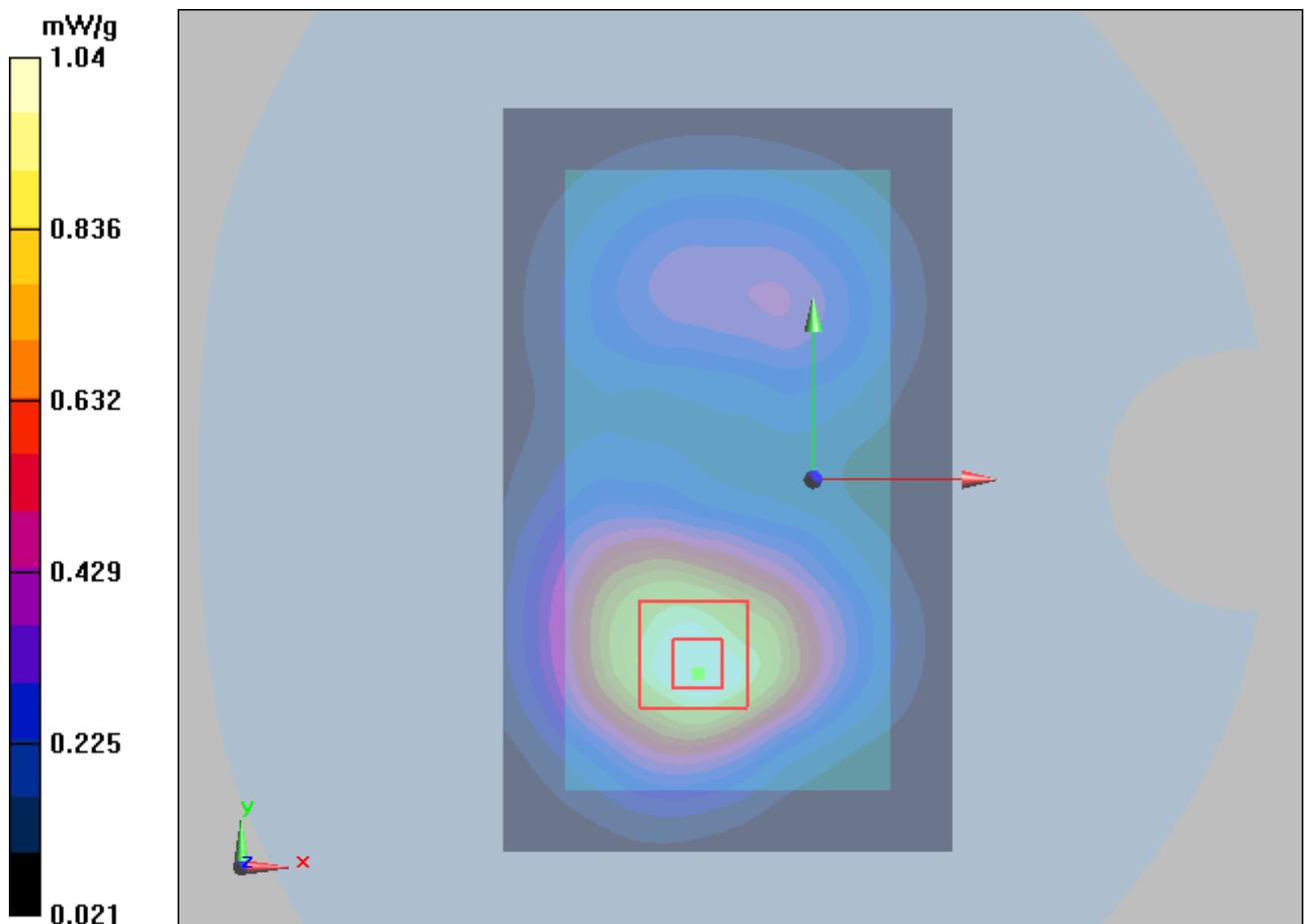


Figure 118 Body, LTE Band 2 with 50% RB Back Side Channel 19150

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LTE Band 2 with 50% RB Back Side Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 7:17:30 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.13 mW/g

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

Reference Value = 10.5 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.611 mW/g

Maximum value of SAR (measured) = 1.07 mW/g

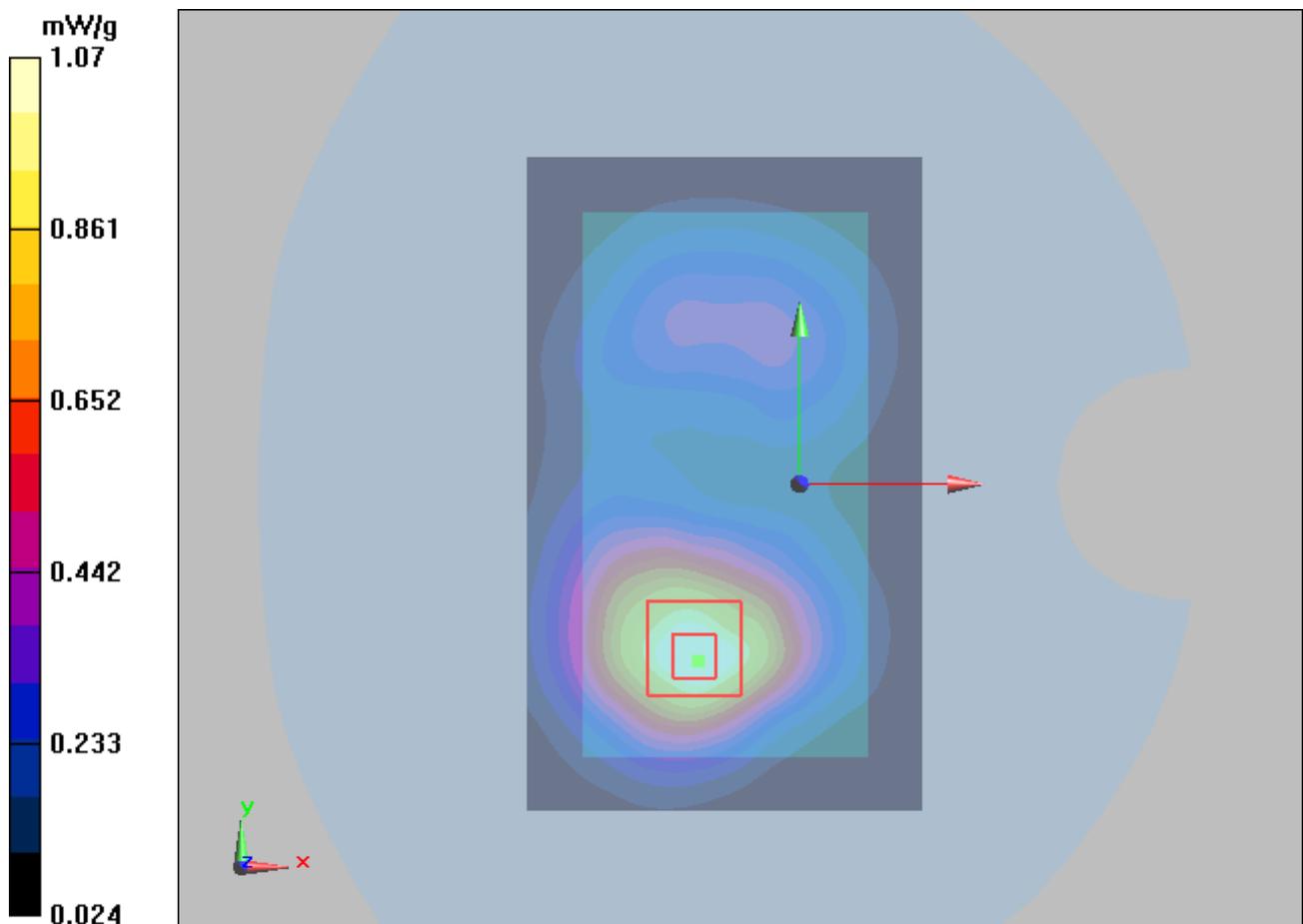


Figure 119 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side Low (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 7:53:45 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1855 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.14 mW/g

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

Reference Value = 9.8 V/m ; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.01 mW/g ; SAR(10 g) = 0.625 mW/g

Maximum value of SAR (measured) = 1.09 mW/g

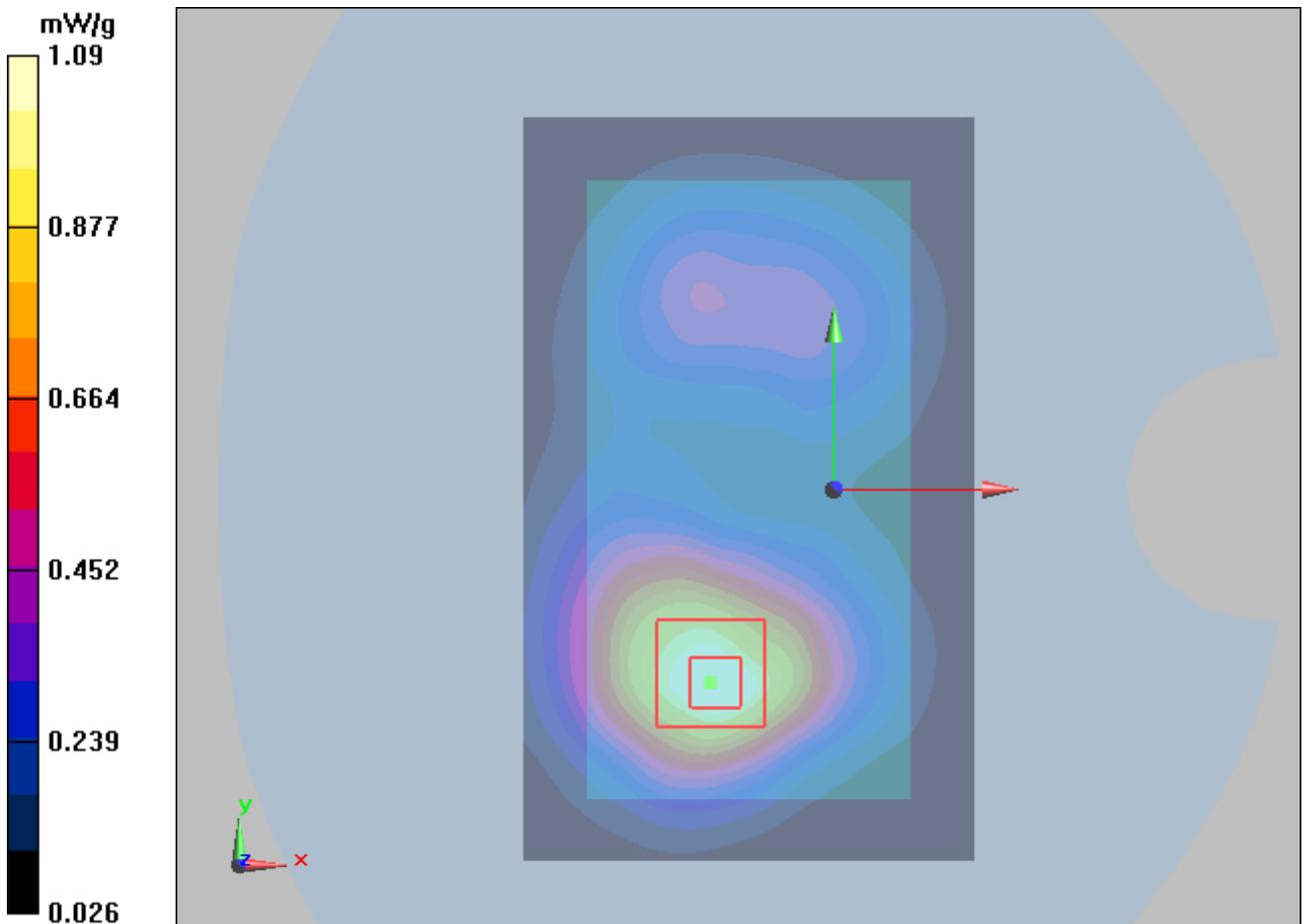


Figure 120 Body, LTE Band 2 with 50% RB Back Side Channel 18650

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LTE Band 2 with 50% RB Front Side Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/27/2012 2:32:28 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.776 mW/g

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

Reference Value = 9.54 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.700 mW/g; SAR(10 g) = 0.449 mW/g

Maximum value of SAR (measured) = 0.750 mW/g

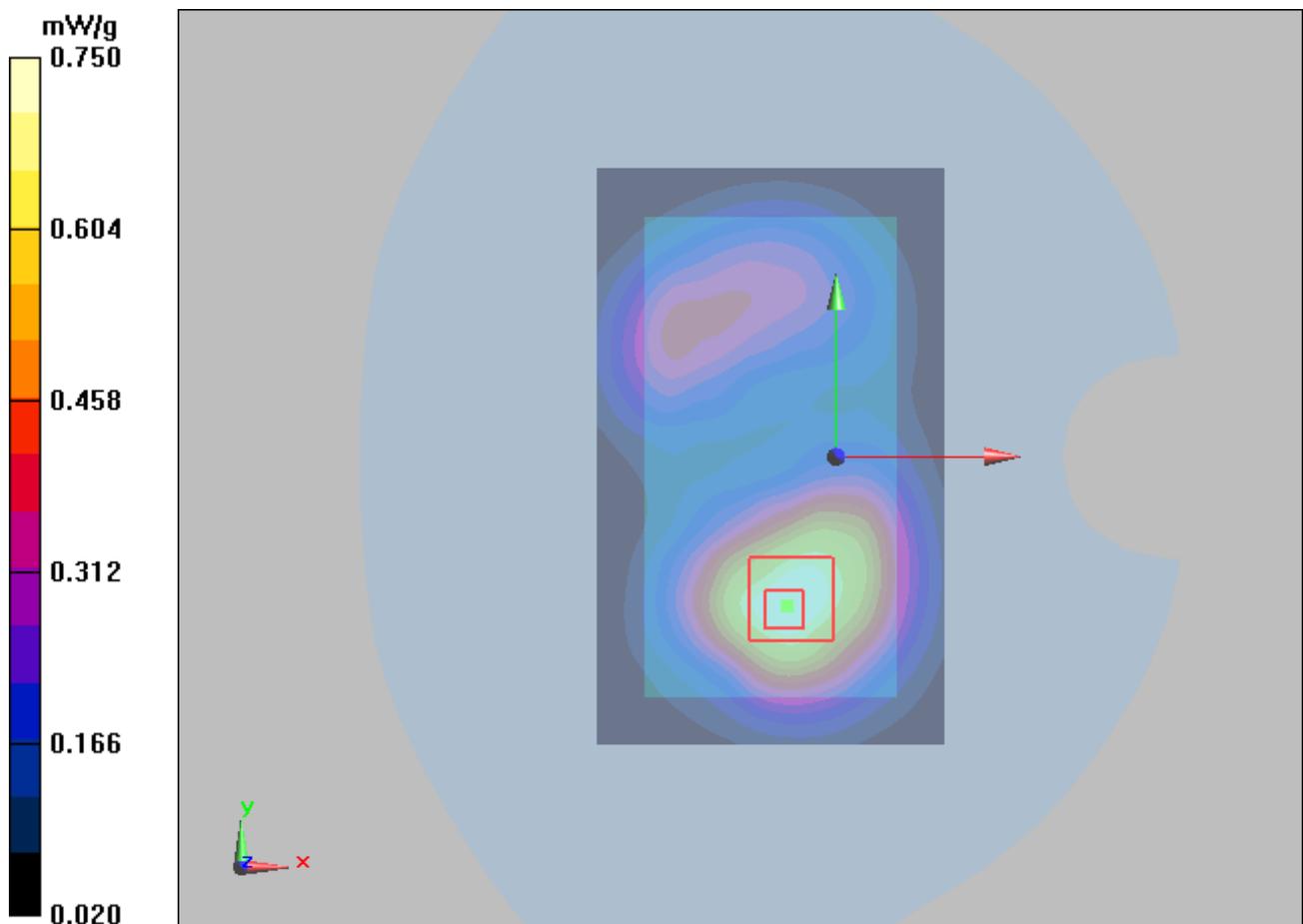


Figure 121 Body, LTE Band 2 with 50% RB Front Side Channel 18900

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LTE Band 2 with 50% RB Right Edge Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/27/2012 2:17:26 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.620 mW/g

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

Reference Value = 15 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.934 W/kg

SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.327 mW/g

Maximum value of SAR (measured) = 0.614 mW/g

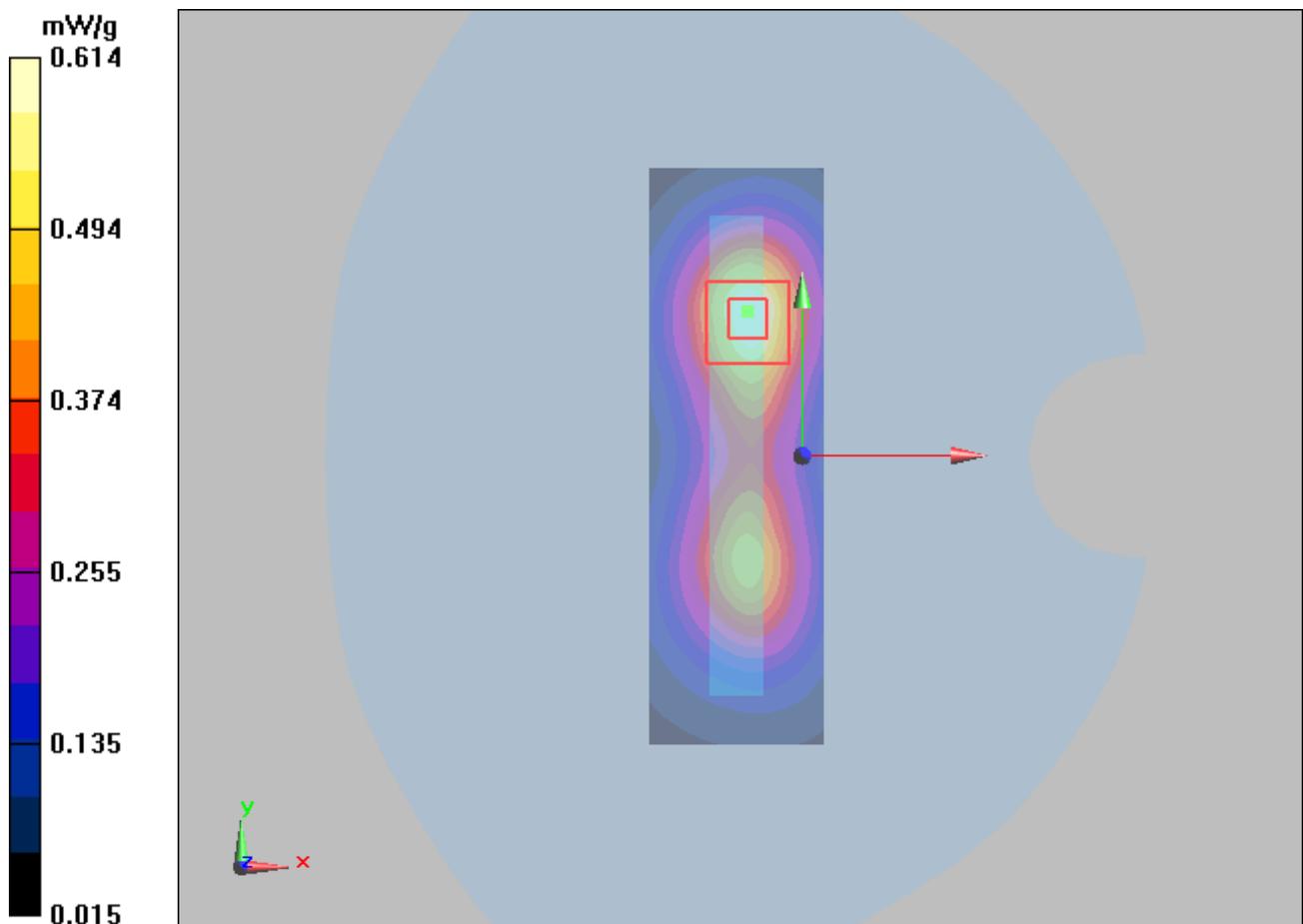


Figure 122 Body, LTE Band 2 with 50% RB Right Edge Channel 18900

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LTE Band 2 with 50% RB Bottom Edge Middle (10MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 11/27/2012 2:03:35 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Side Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.171 mW/g

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

Reference Value = 9.9 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 0.238 W/kg

SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.092 mW/g

Maximum value of SAR (measured) = 0.155 mW/g

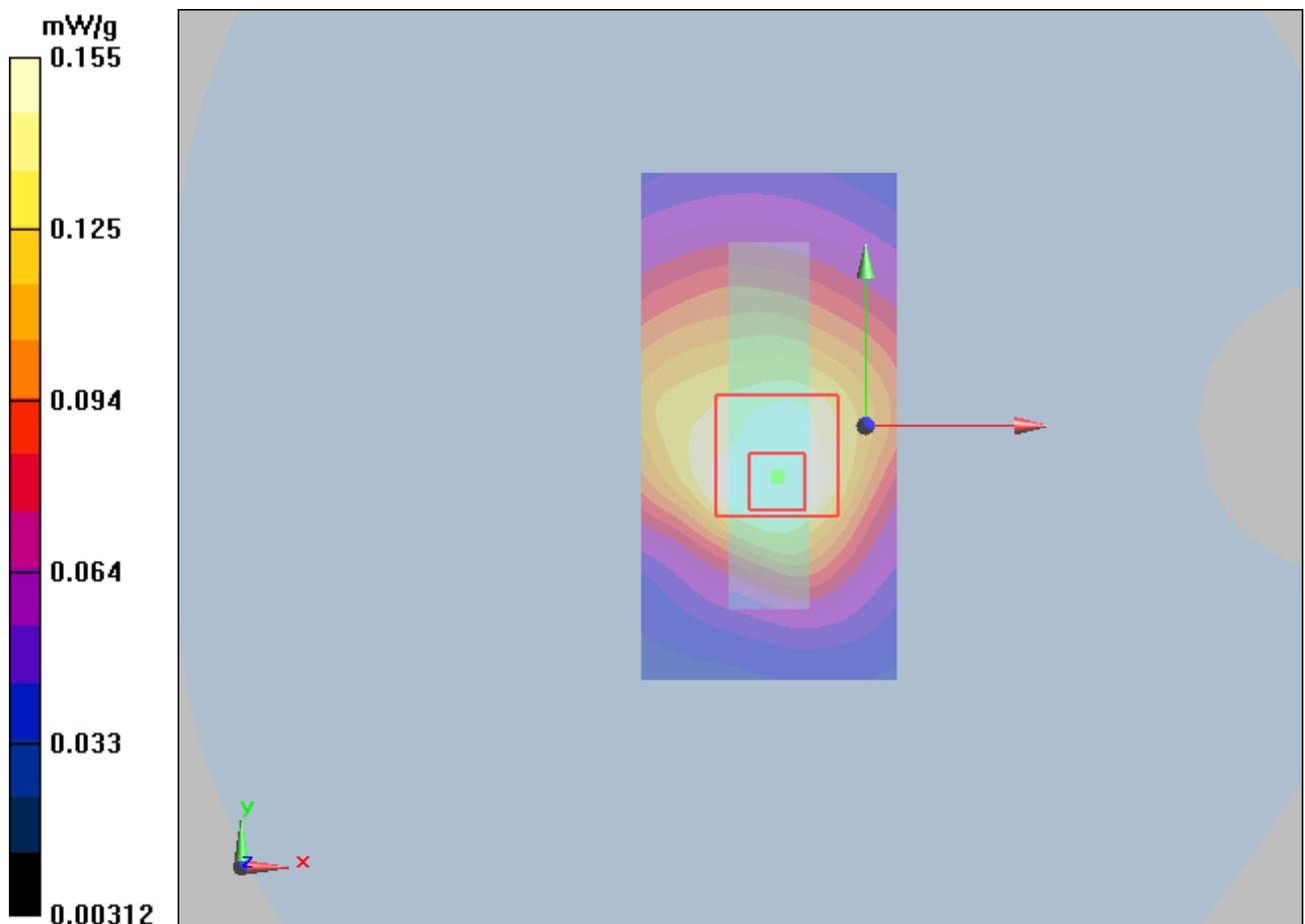


Figure 123 Body, LTE Band 2 with 50% RB Bottom Edge Channel 18900

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LTE Band 2 with 1 RB Back Side Low (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK, Low end)

Date/Time: 11/26/2012 8:12:42 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1855$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.37 mW/g

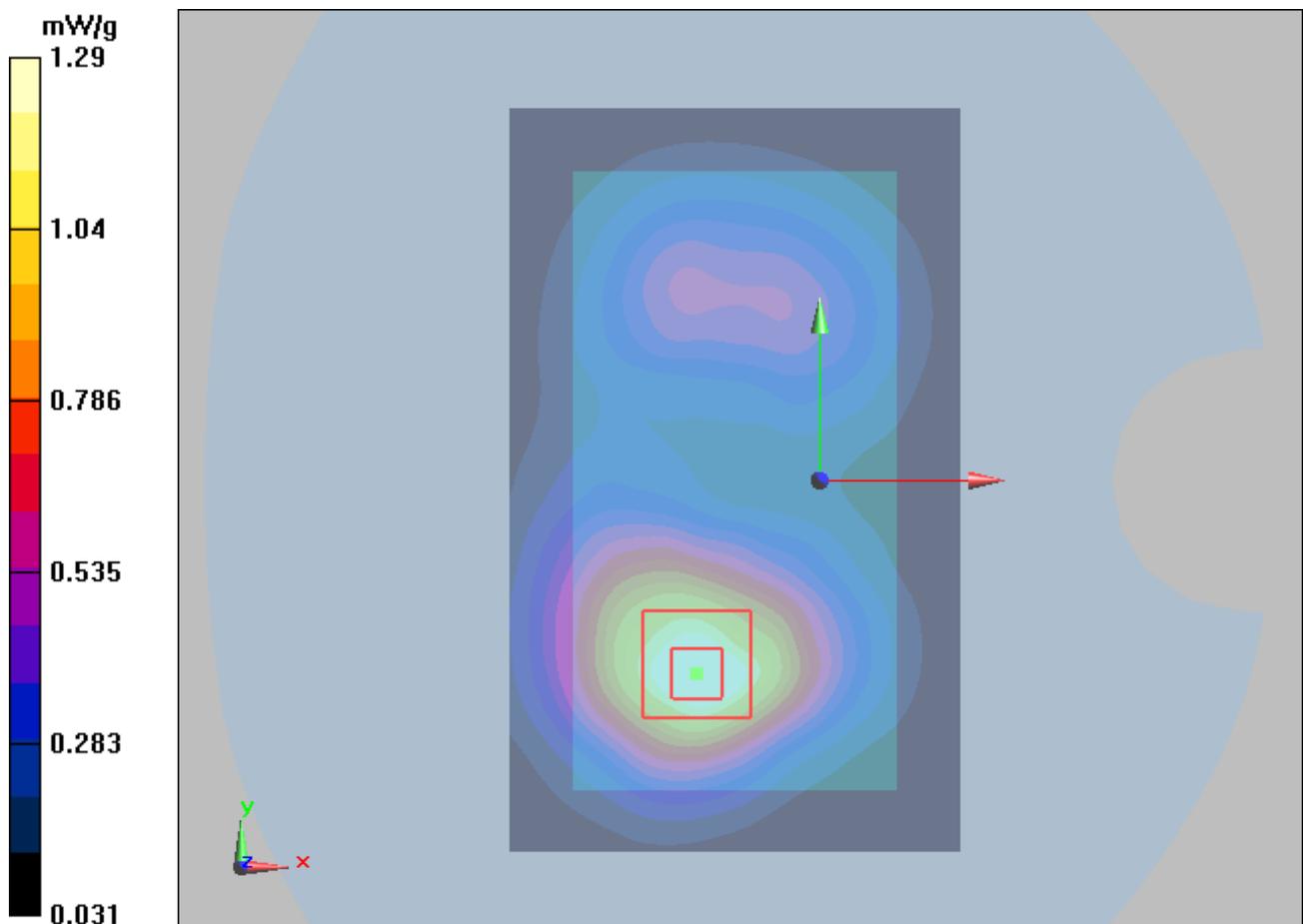
Back Side Low(Low)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.742 mW/g

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



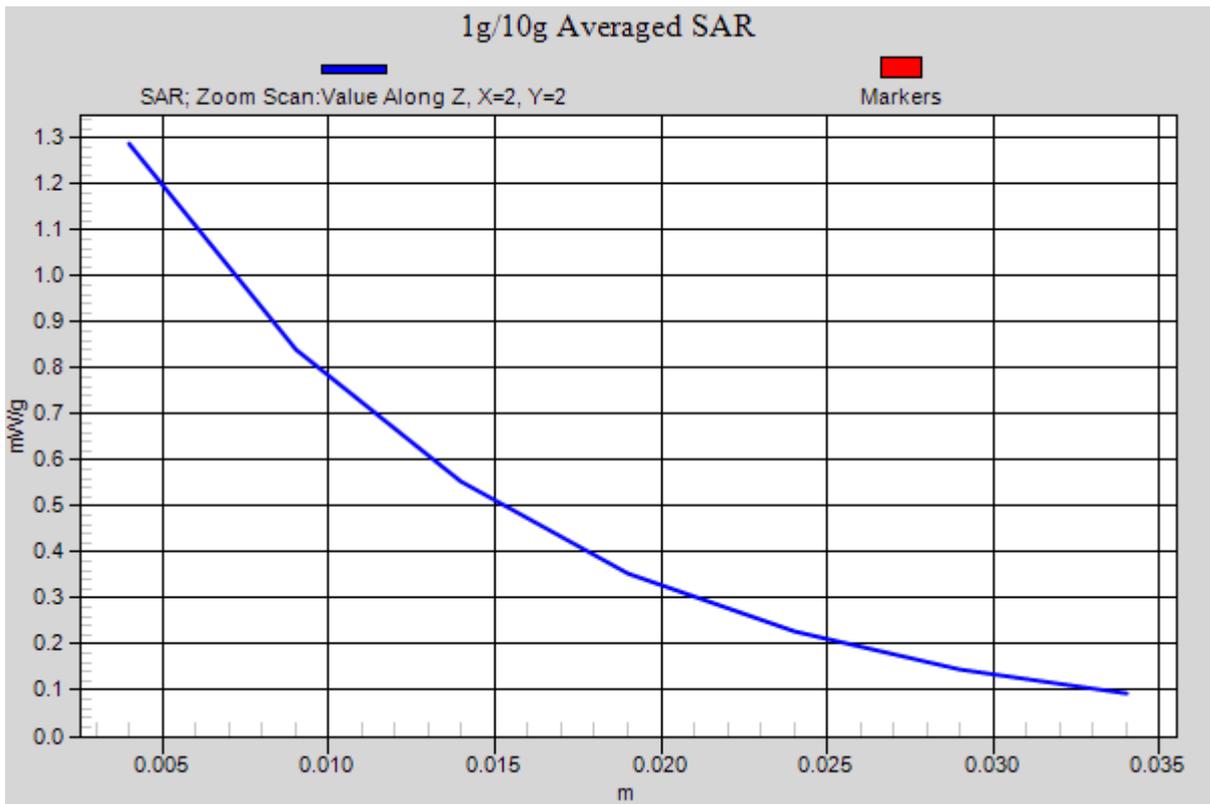


Figure 124 Body, LTE Band 2 with 1 RB Back Side Channel 18650

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LTE Band 2 with 1 RB Back Side Low (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK, High end)

Date/Time: 11/26/2012 8:28:55 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1855$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.37 mW/g

Back Side Low(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.738 mW/g

Maximum value of SAR (measured) = 1.28 mW/g

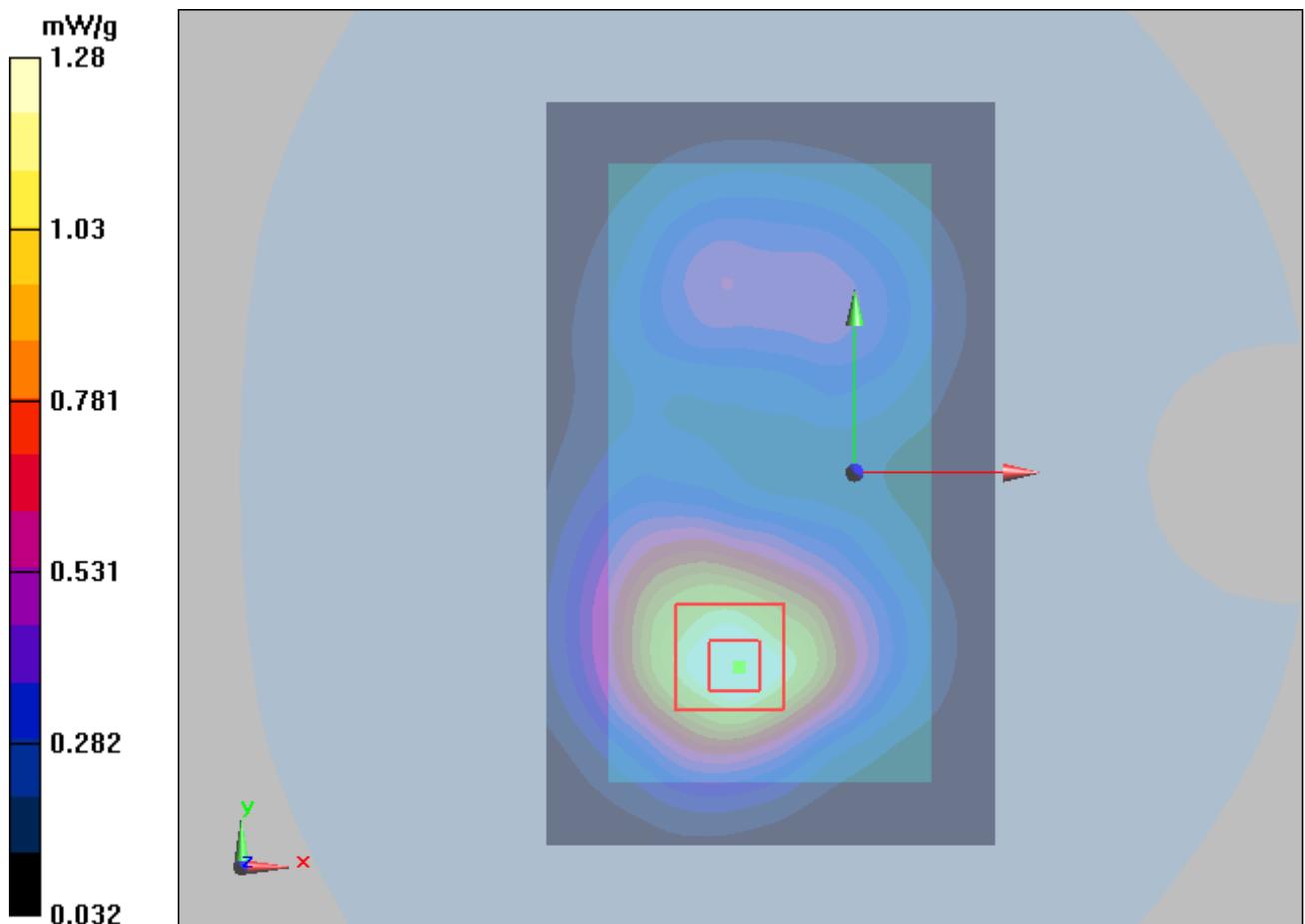


Figure 125 Body, LTE Band 2 with 1 RB Back Side Channel 18650

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LTE Band 2 with 50% RB Back Side Low (10MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm, 16QAM)

Date/Time: 11/26/2012 8:47:34 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1855$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.909 mW/g

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

Reference Value = 8.67 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.795 mW/g; SAR(10 g) = 0.493 mW/g

Maximum value of SAR (measured) = 0.856 mW/g

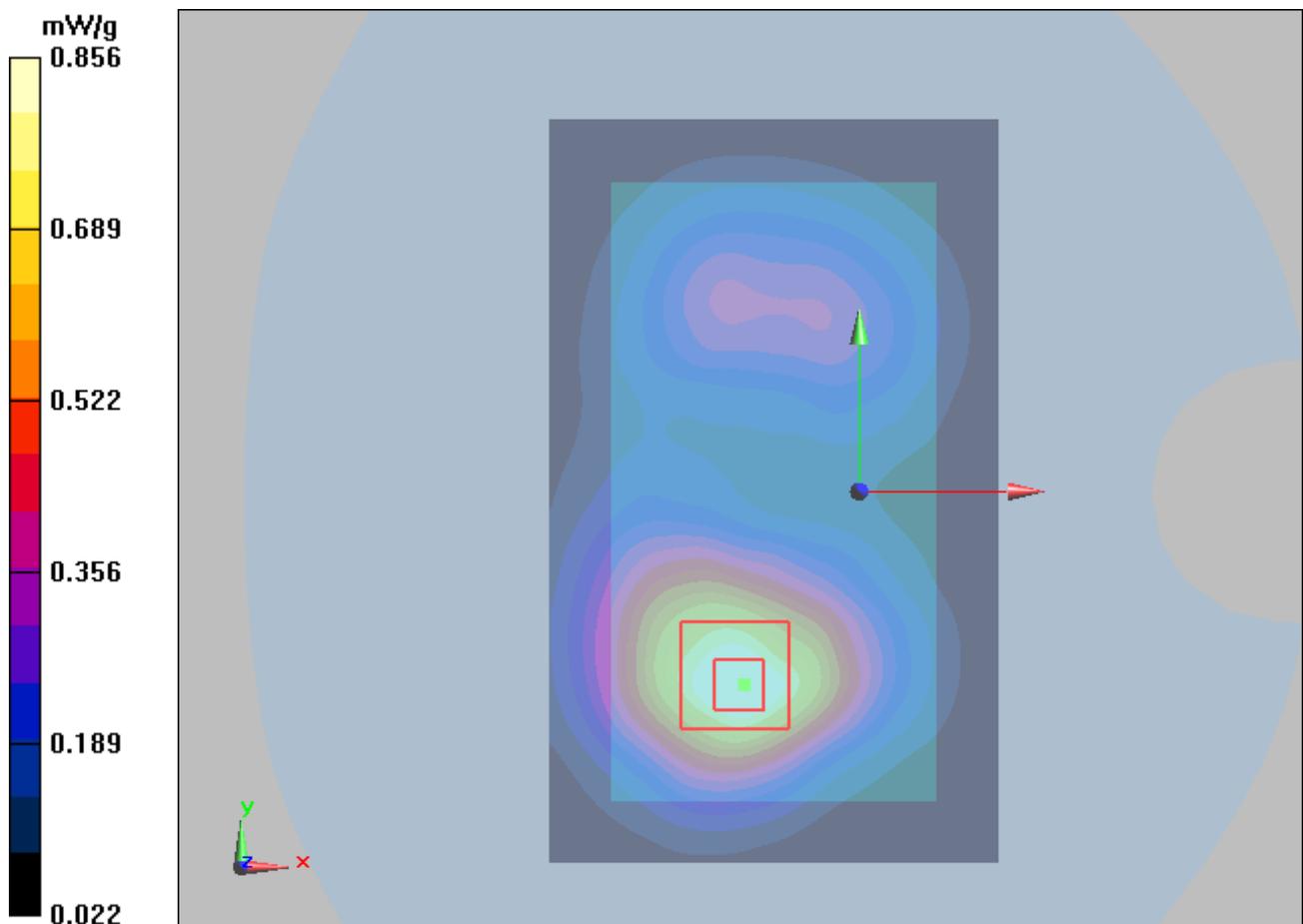


Figure 126 Body, LTE Band 2 with 50% RB Back Side Channel 18650

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LTE Band 2 with 1 RB Back Side low (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, Low end)

Date/Time: 11/26/2012 9:34:34 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1855$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.988 mW/g

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

Reference Value = 8.43 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.540 mW/g

Maximum value of SAR (measured) = 0.928 mW/g

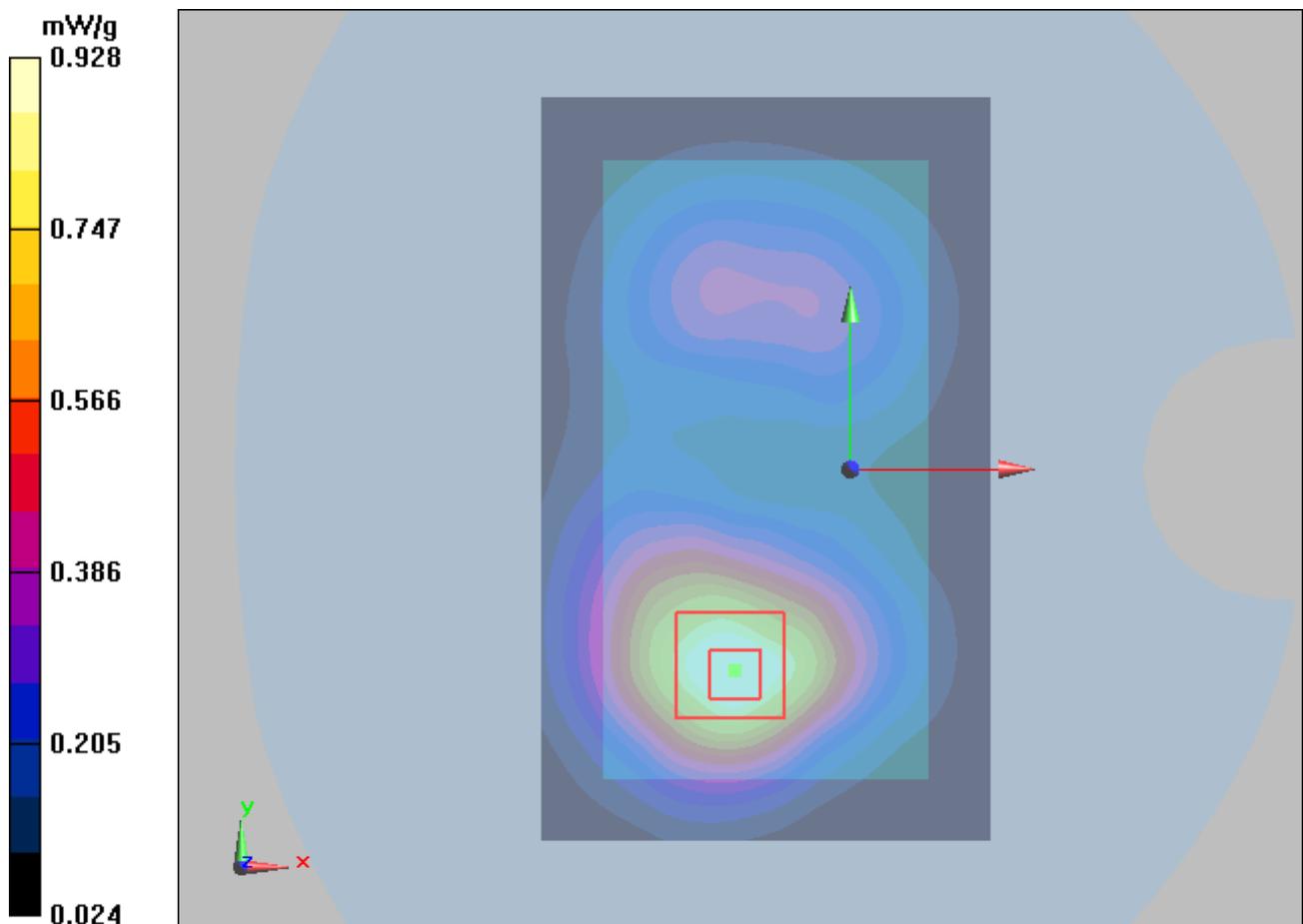


Figure 127 Body, LTE Band 2 with 1 RB Back Side Channel 18650

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LTE Band 2 with 1 RB Back Side Low (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, High end)

Date/Time: 11/26/2012 9:50:27 PM

Communication System: LTE; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1855$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.981 mW/g

Back Side Low(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.69 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.858 mW/g; SAR(10 g) = 0.534 mW/g

Maximum value of SAR (measured) = 0.918 mW/g

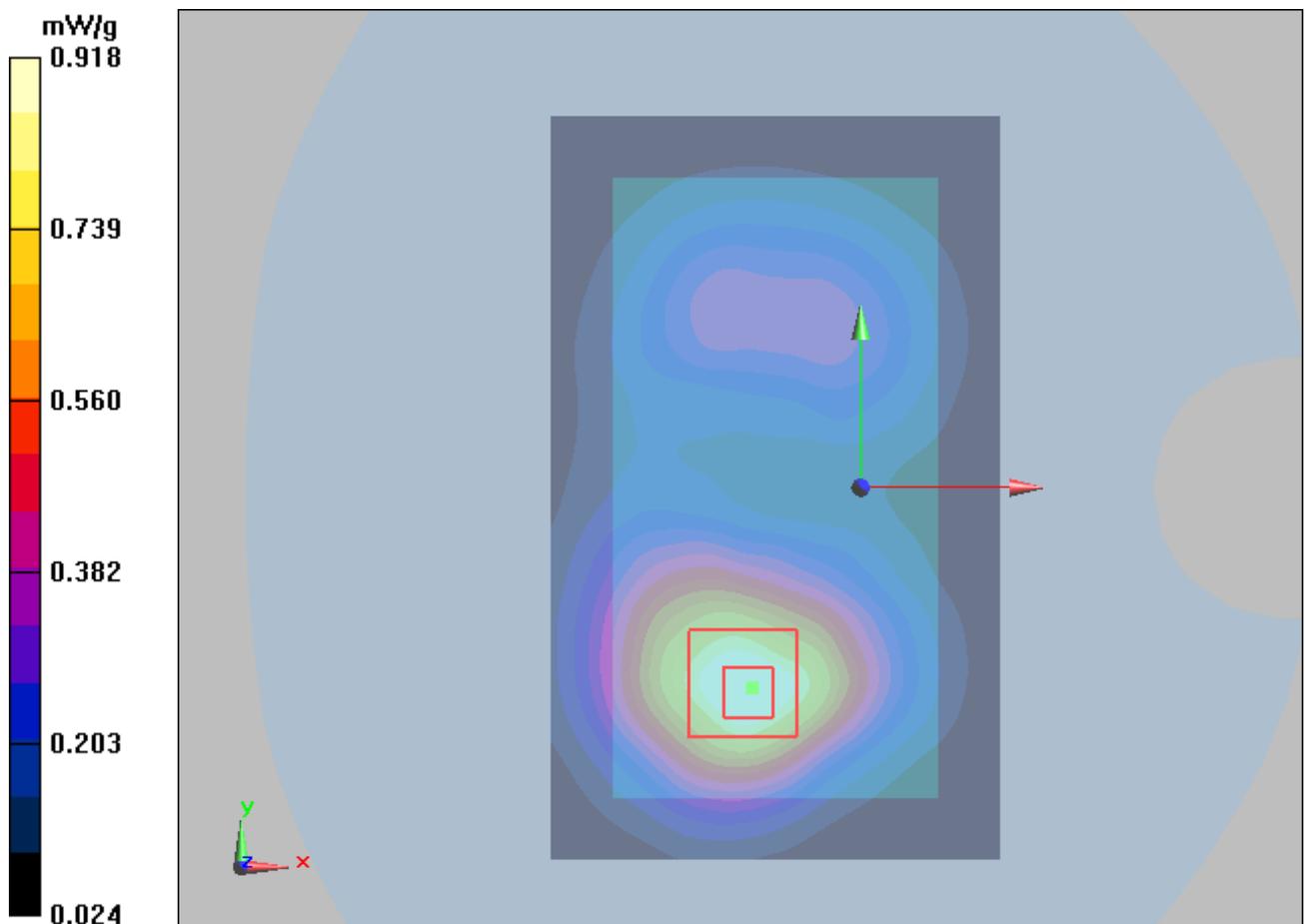


Figure 128 Body, LTE Band 2 with 1 RB Back Side Channel 18650

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LTE Band 2 with 50% RB Left Cheek Middle (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 2:11:42 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.561 mW/g

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

Reference Value = 10.3 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.355 mW/g

Maximum value of SAR (measured) = 0.559 mW/g

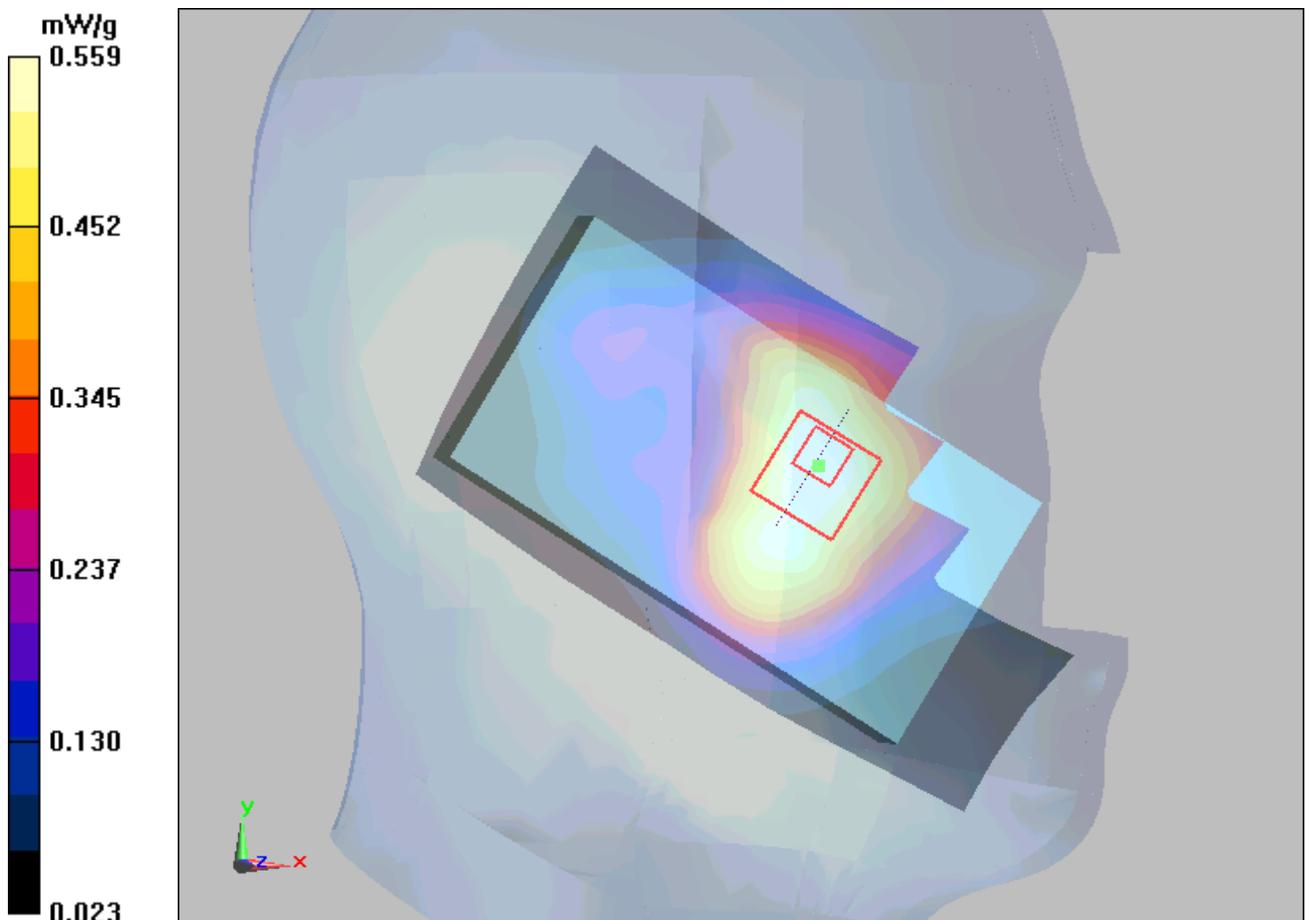


Figure 129 LTE Band 2 with 50% RB Left Hand Touch Cheek Channel 18900

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 50% RB Left Tilt Middle (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 2:28:19 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.576 mW/g

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

Reference Value = 18.1 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.296 mW/g

Maximum value of SAR (measured) = 0.528 mW/g

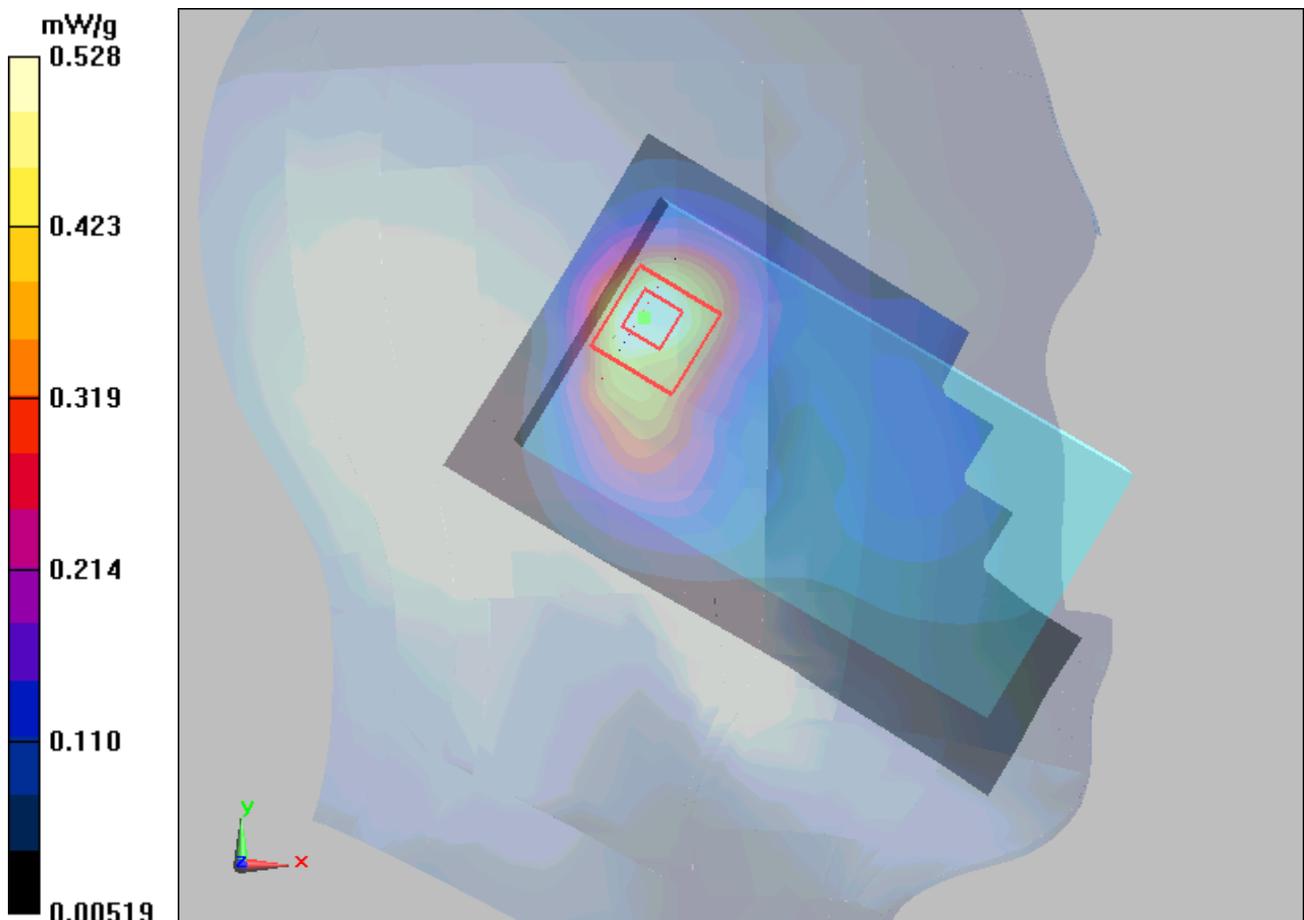


Figure 130 LTE Band 2 with 50% RB Left Hand Tilt 15° Channel 18900

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 2 with 50% RB Right Cheek High (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 2:46:19 PM

Communication System: LTE; Frequency: 1909.3 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.872 mW/g

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

Reference Value = 9.42 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.804 mW/g; SAR(10 g) = 0.497 mW/g

Maximum value of SAR (measured) = 0.853 mW/g

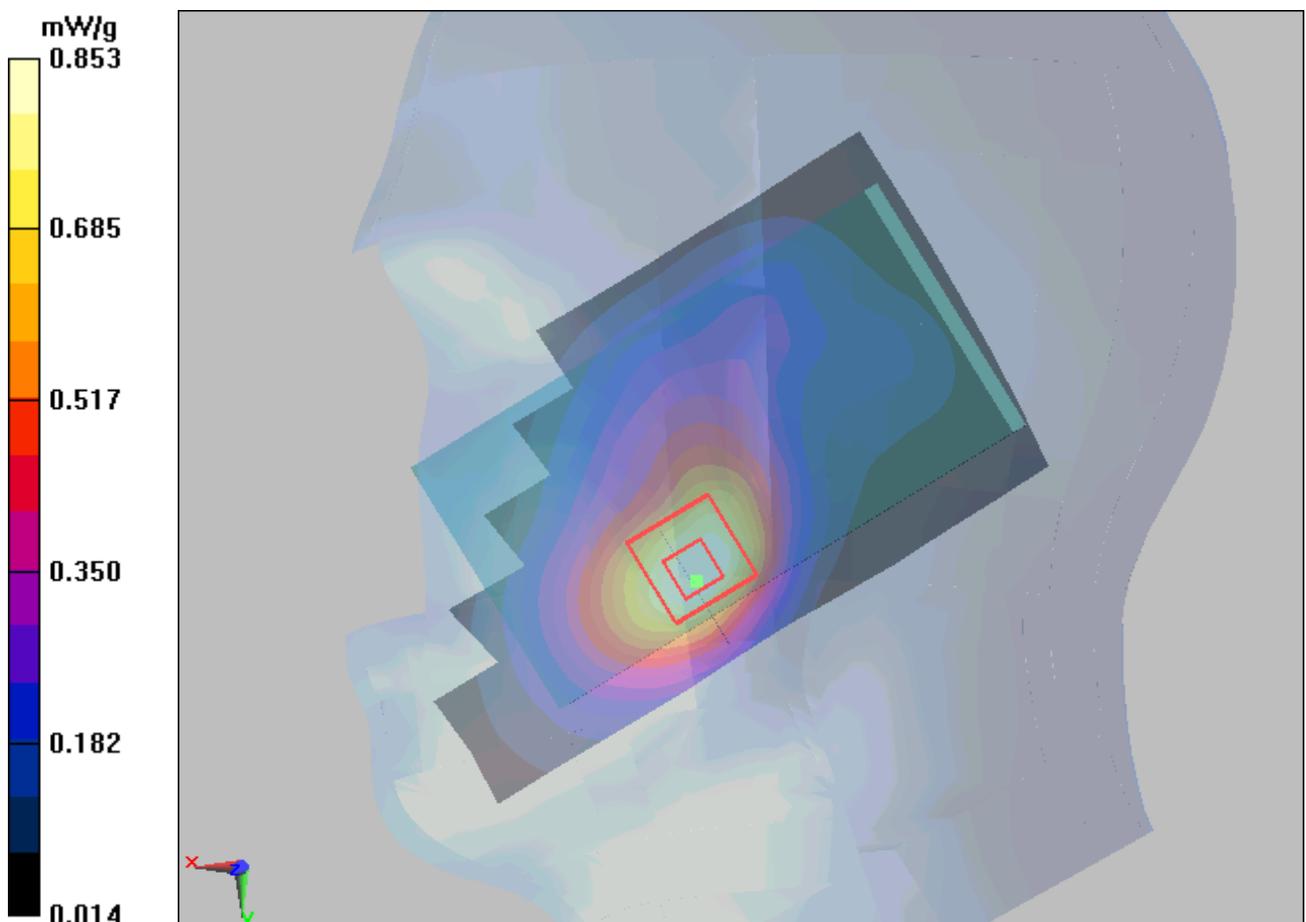


Figure 131 LTE Band 2 with 50% RB Right Hand Touch Cheek Channel 19193

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LTE Band 2 with 50% RB Right Cheek Middle (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 3:05:03 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.02 mW/g

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

Reference Value = 11.3 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.936 mW/g; SAR(10 g) = 0.586 mW/g

Maximum value of SAR (measured) = 1.01 mW/g

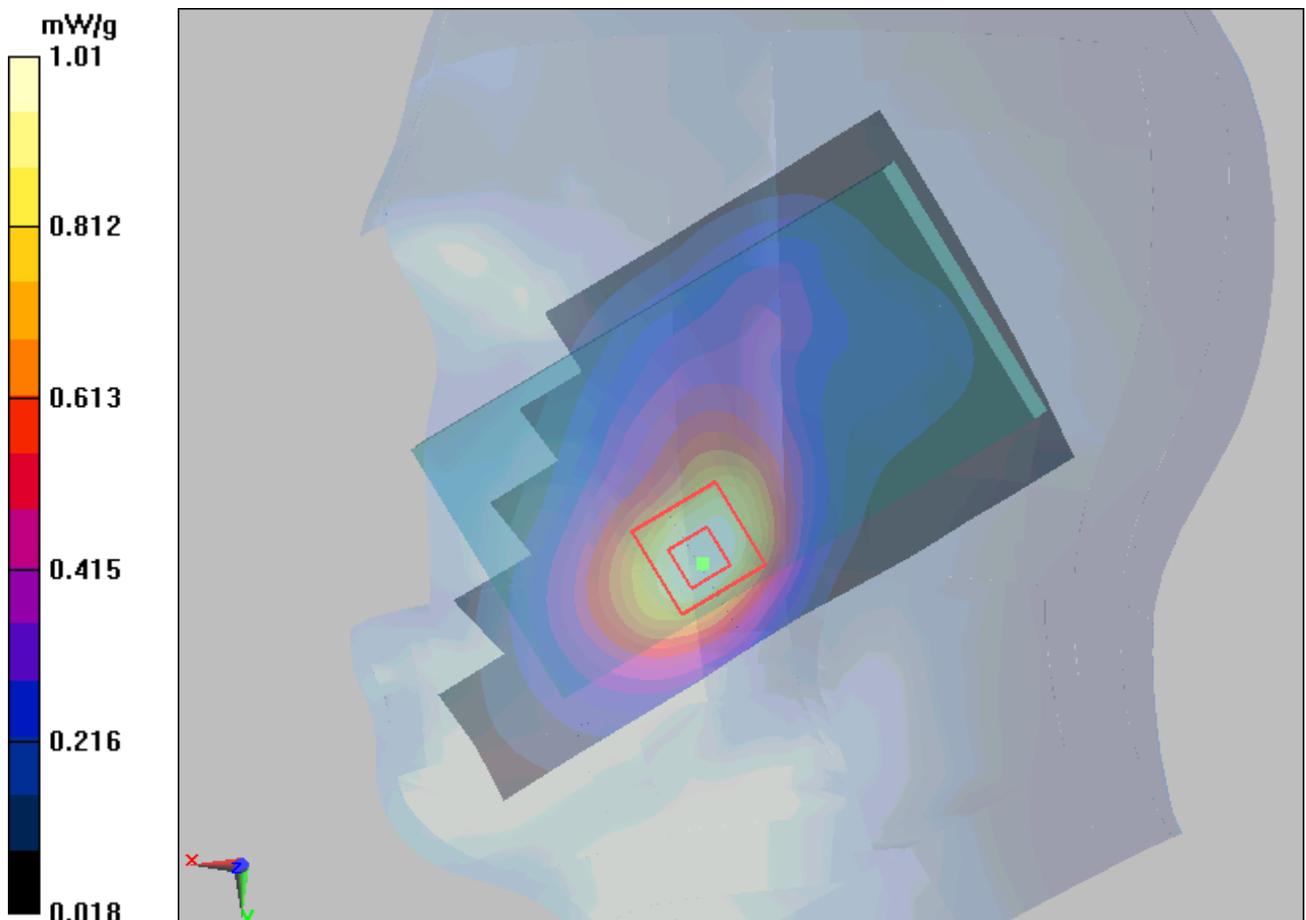


Figure 132 LTE Band 2 with 50% RB Right Hand Touch Cheek Channel 18900

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LTE Band 2 with 50% RB Right Cheek Low (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 3:22:01 PM

Communication System: LTE; Frequency: 1850.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1850.7$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.07 mW/g

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

Reference Value = 11 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 1.5 W/kg

SAR(1 g) = 0.966 mW/g; SAR(10 g) = 0.604 mW/g

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

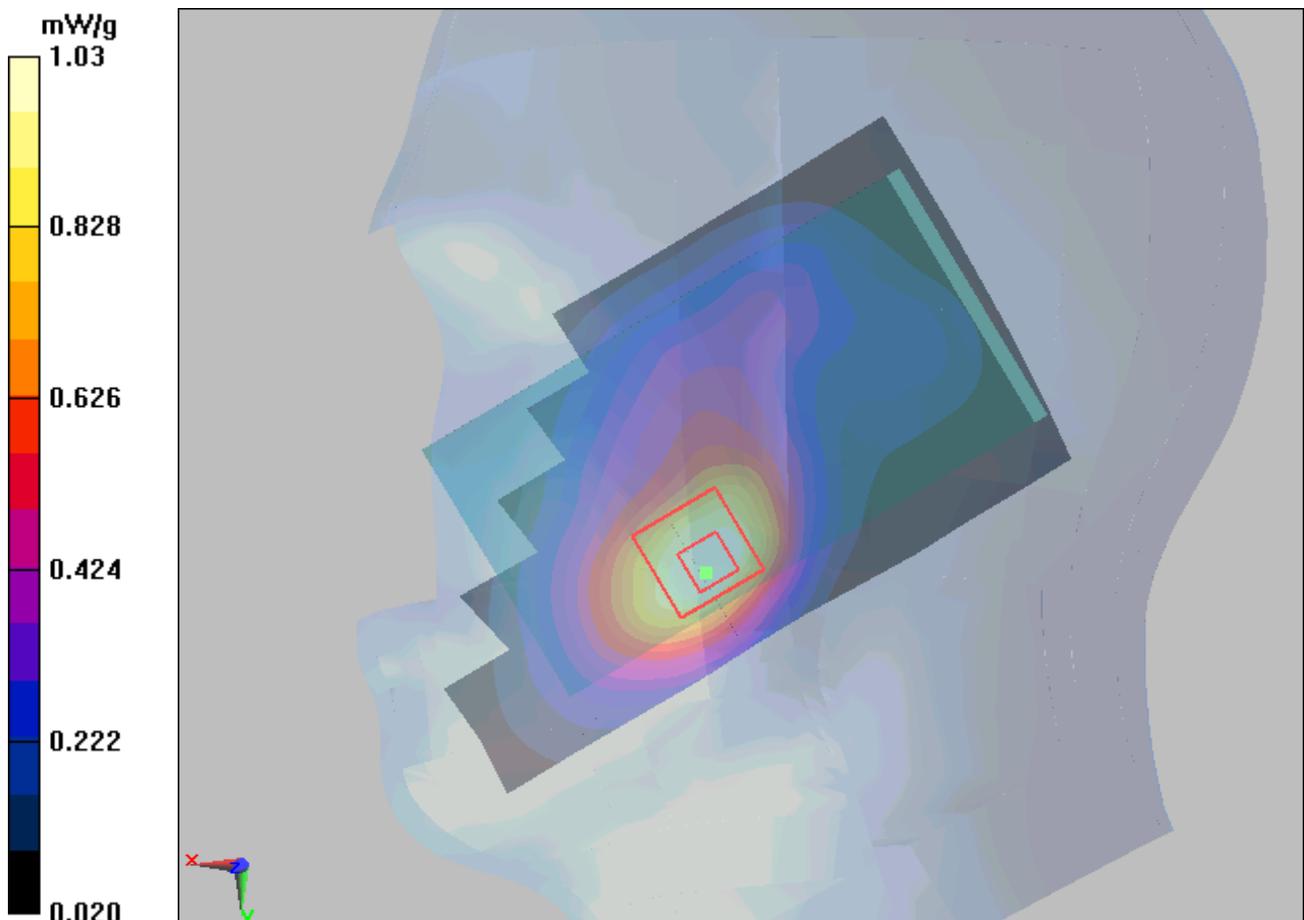


Figure 133 LTE Band 2 with 50% RB Right Hand Touch Cheek Channel 18607

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LTE Band 2 with 50% RB Right Tilt Middle (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/9/2012 3:38:17 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.493 mW/g

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

Reference Value = 16.6 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.647 W/kg

SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.290 mW/g

Maximum value of SAR (measured) = 0.483 mW/g

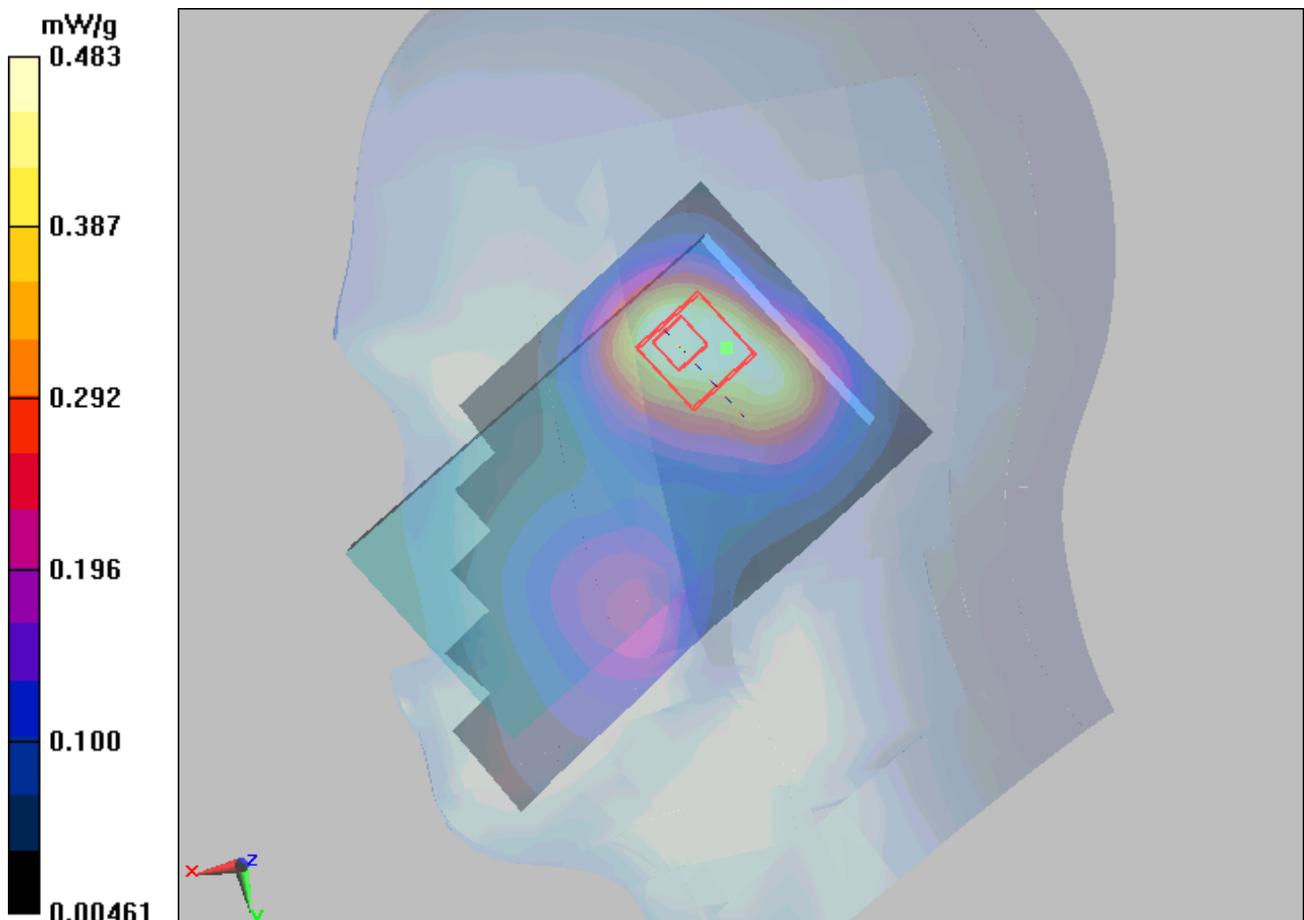


Figure 134 LTE Band 2 with 50% RB Right Hand Tilt 15° Channel 18900

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LTE Band 2 with 1 RB Right Cheek Low (1.4MHz, SN: UWDC320XBGN01407, QPSK, Low end)

Date/Time: 10/9/2012 3:57:40 PM

Communication System: LTE; Frequency: 1850.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1850.7$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 mW/g

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

Reference Value = 11.2 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.631 mW/g

Maximum value of SAR (measured) = 1.12 mW/g

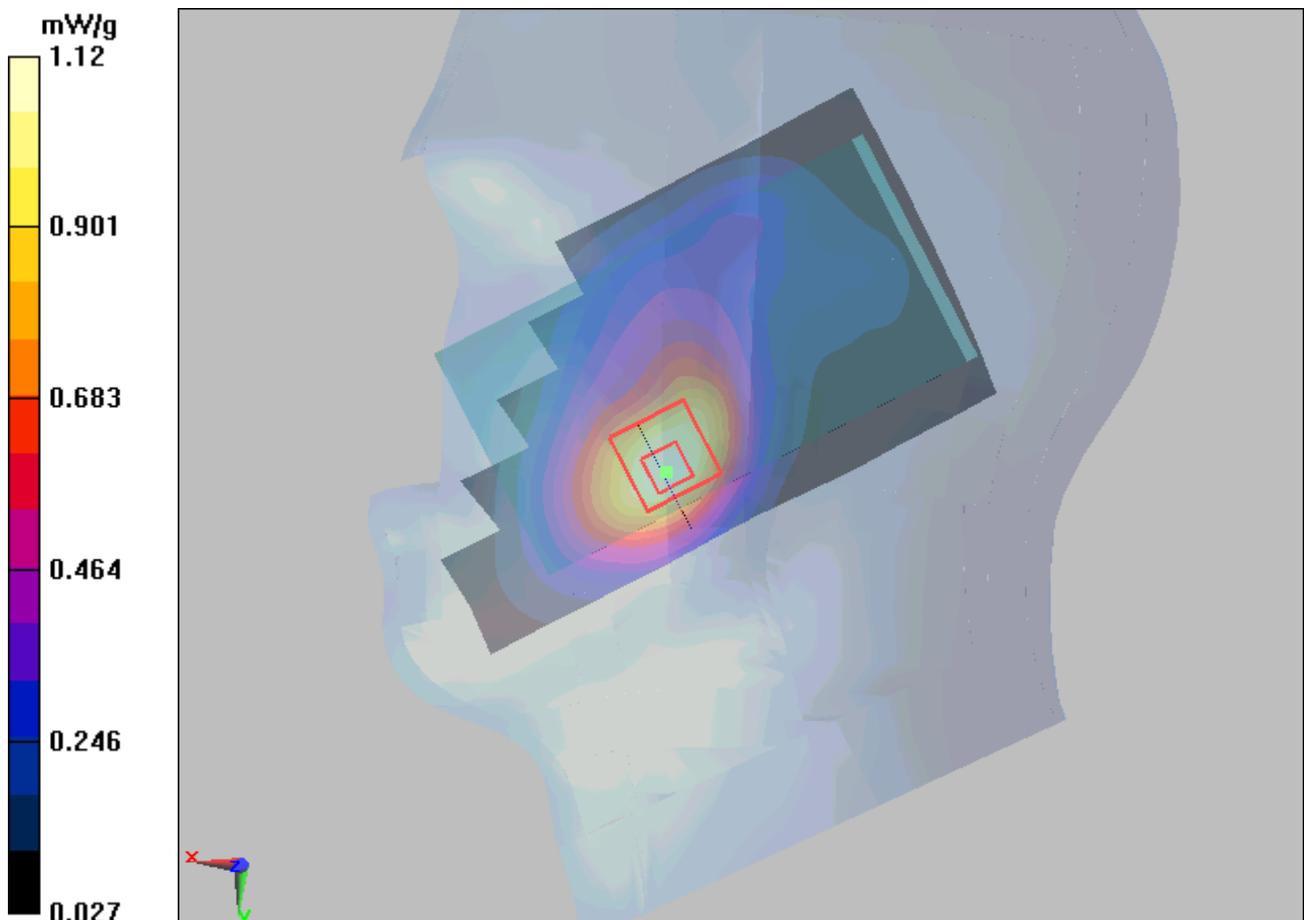


Figure 135 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18607

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LTE Band 2 with 1 RB Right Cheek Low (1.4MHz, SN: UWDC320XBGN01407, QPSK, High end)

Date/Time: 10/9/2012 4:15:11 PM

Communication System: LTE; Frequency: 1850.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1850.7$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.14 mW/g

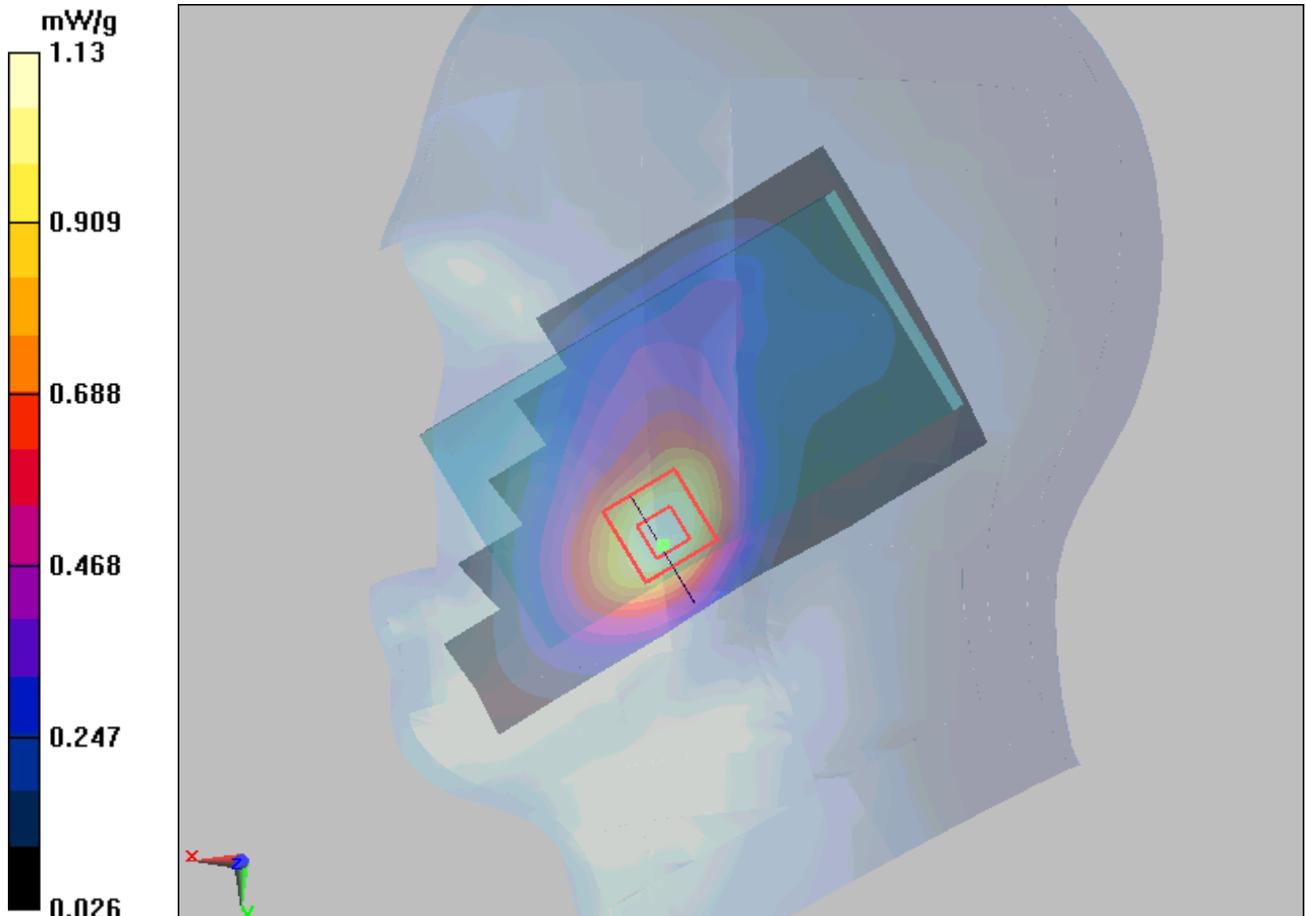
Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.649 mW/g

Maximum value of SAR (measured) = 1.13 mW/g



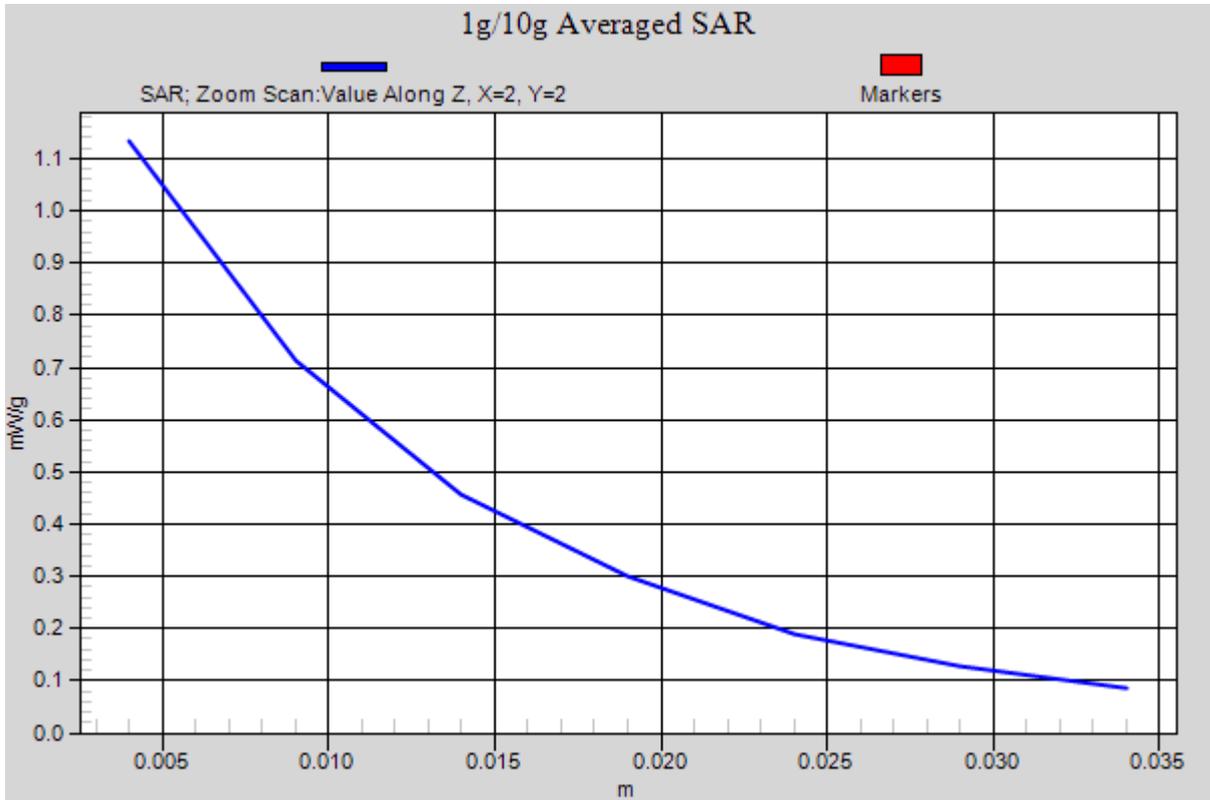


Figure 136 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18607

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LTE Band 2 with 50% RB Right Cheek Low (1.4MHz, SN: UWDC320XBGN01407, 16QAM)

Date/Time: 10/9/2012 4:32:32 PM

Communication System: LTE; Frequency: 1850.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1850.7$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.733 mW/g

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

Reference Value = 9.91 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.667 mW/g; SAR(10 g) = 0.418 mW/g

Maximum value of SAR (measured) = 0.716 mW/g

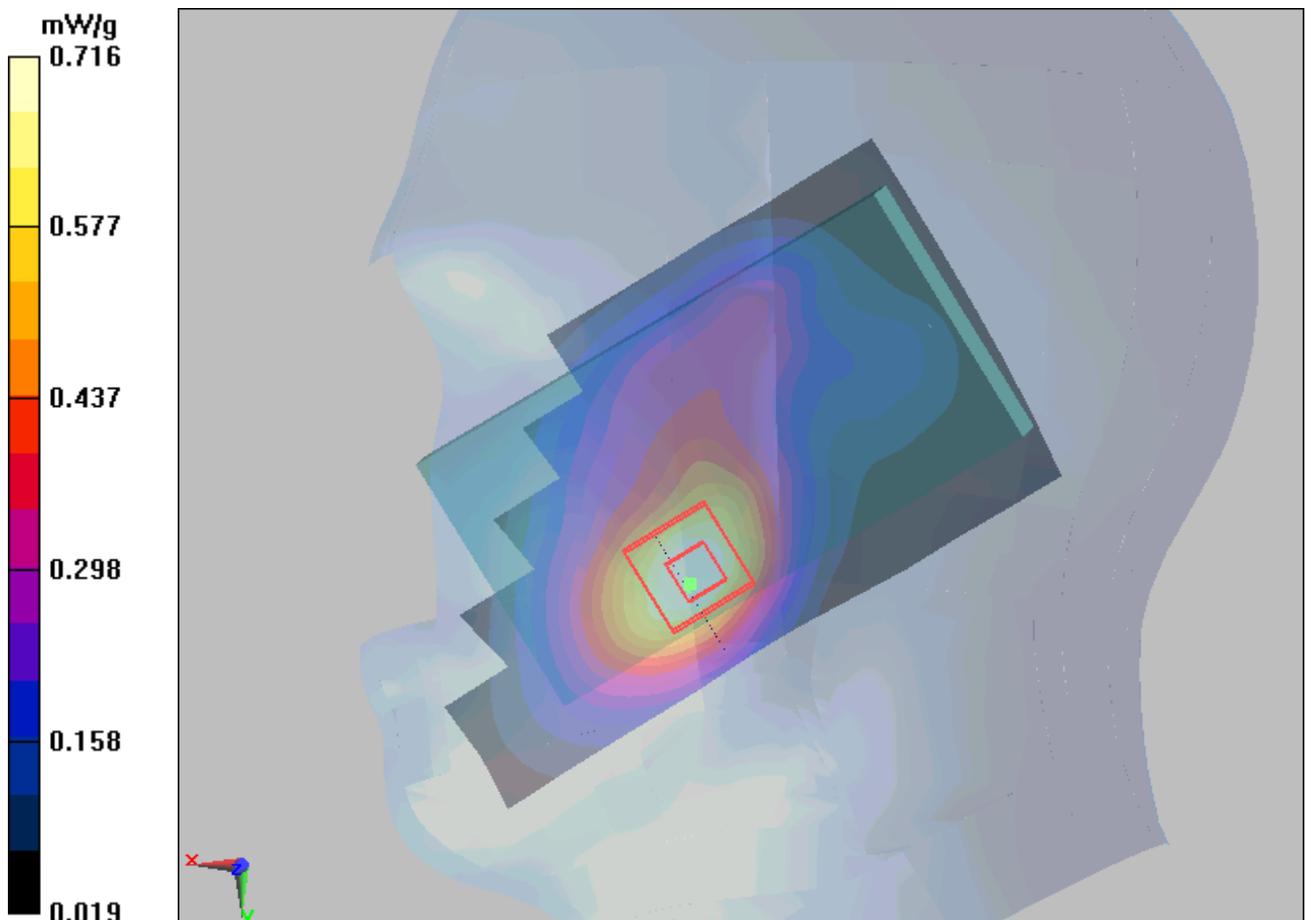


Figure 137 LTE Band 2 with 50% RB Right Hand Touch Cheek Channel 18607

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LTE Band 2 with 1 RB Right Cheek Low (1.4MHz, SN: UWDC320XBGN01407, 16QAM, Low end)

Date/Time: 10/9/2012 4:50:48 PM

Communication System: LTE; Frequency: 1850.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1850.7$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.839 mW/g

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

Reference Value = 9.74 V/m; Power Drift = 0.091 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.788 mW/g; SAR(10 g) = 0.484 mW/g

Maximum value of SAR (measured) = 0.853 mW/g

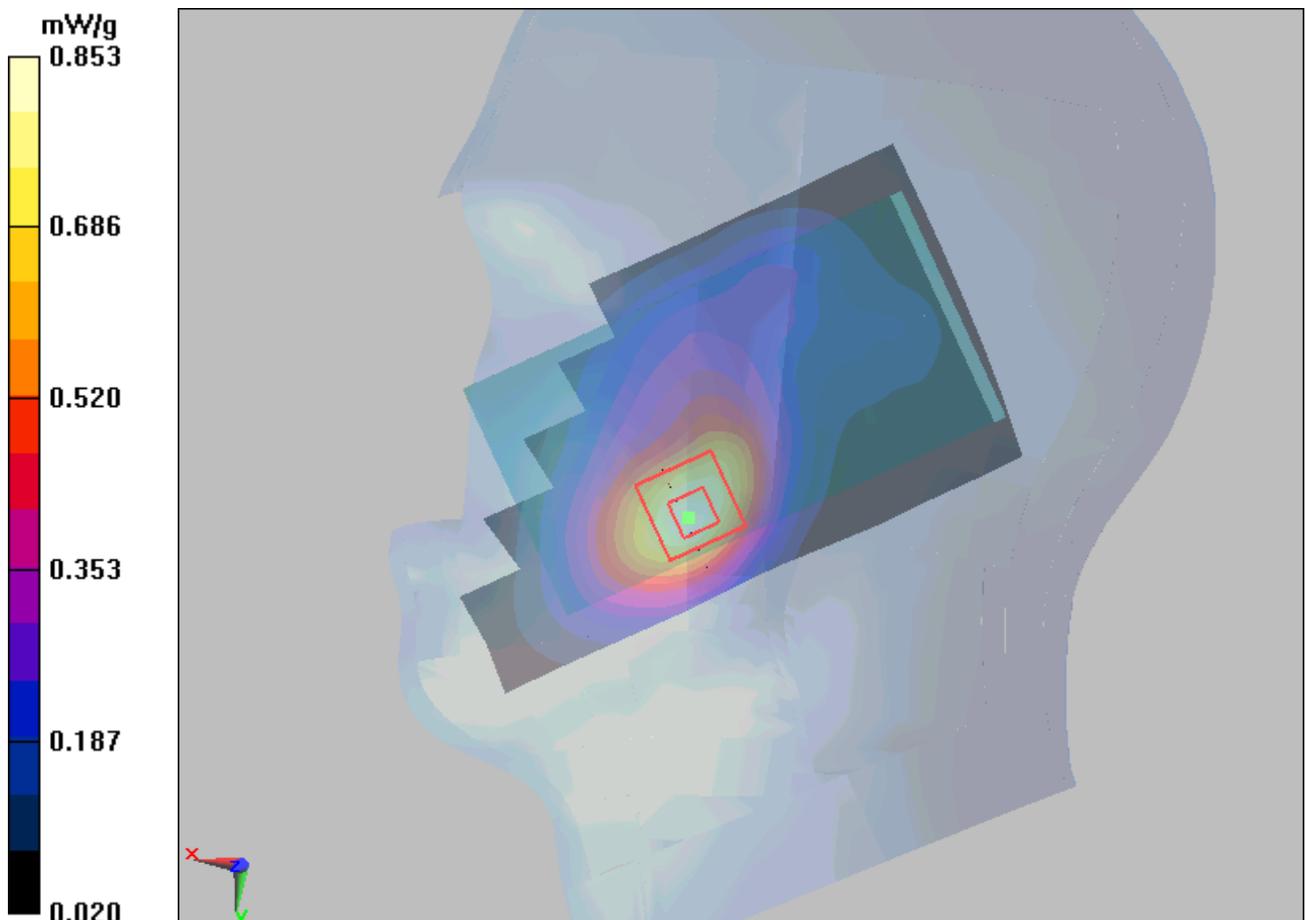


Figure 138 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18607

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LTE Band 2 with 1 RB Right Cheek Low (1.4MHz, SN: UWDC320XBGN01407, 16QAM, High end)

Date/Time: 10/9/2012 5:09:50 PM

Communication System: LTE; Frequency: 1850.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1850.7$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.69, 4.69, 4.69); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.819 mW/g

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

Reference Value = 10.1 V/m; Power Drift = 0.082 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.781 mW/g; SAR(10 g) = 0.485 mW/g

Maximum value of SAR (measured) = 0.832 mW/g

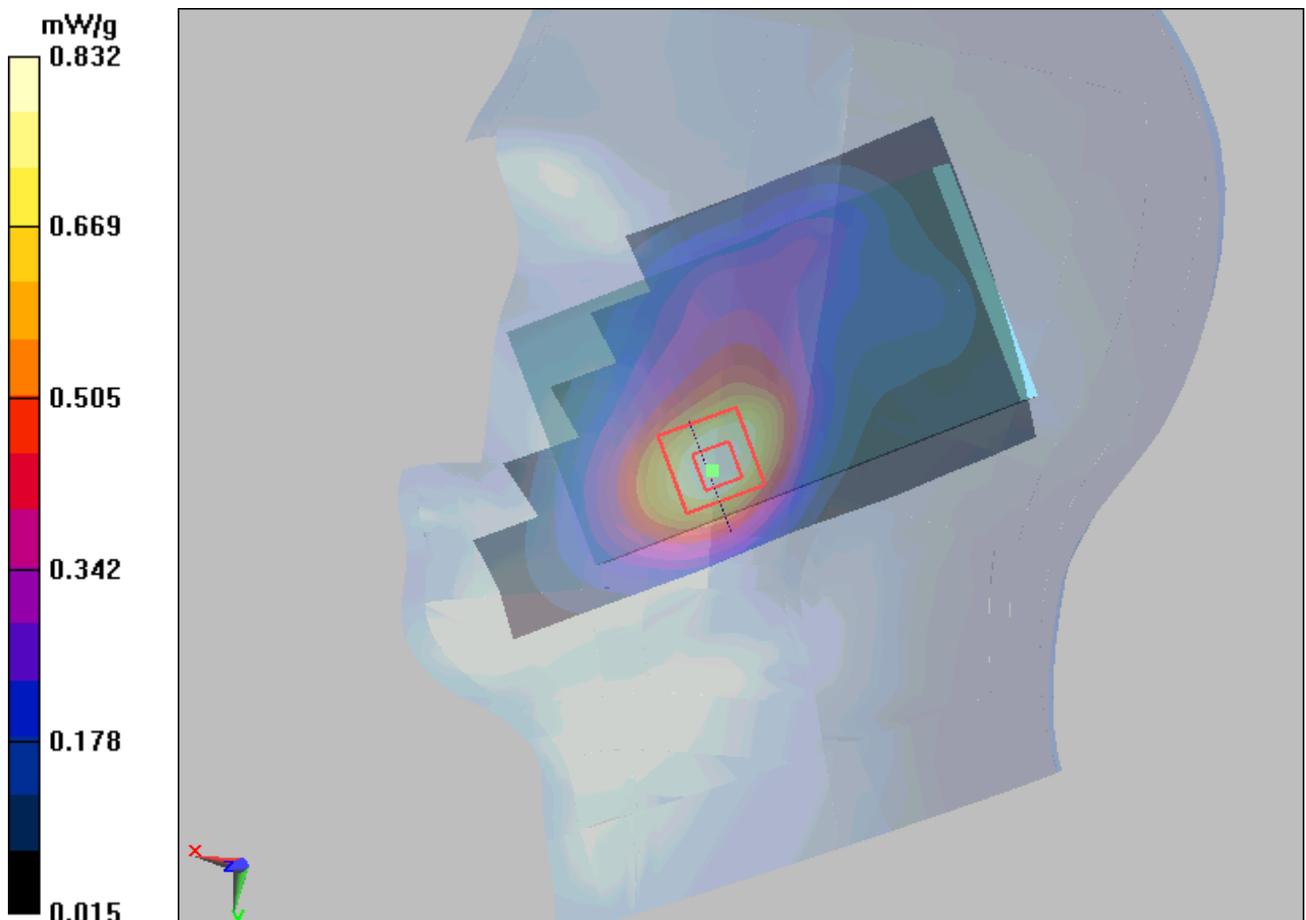


Figure 139 LTE Band 2 with 1 RB Right Hand Touch Cheek Channel 18607

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LTE Band 2 with 50% RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/11/2012 2:01:01 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.816 mW/g

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

Reference Value = 10 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.778 mW/g; SAR(10 g) = 0.492 mW/g

Maximum value of SAR (measured) = 0.828 mW/g

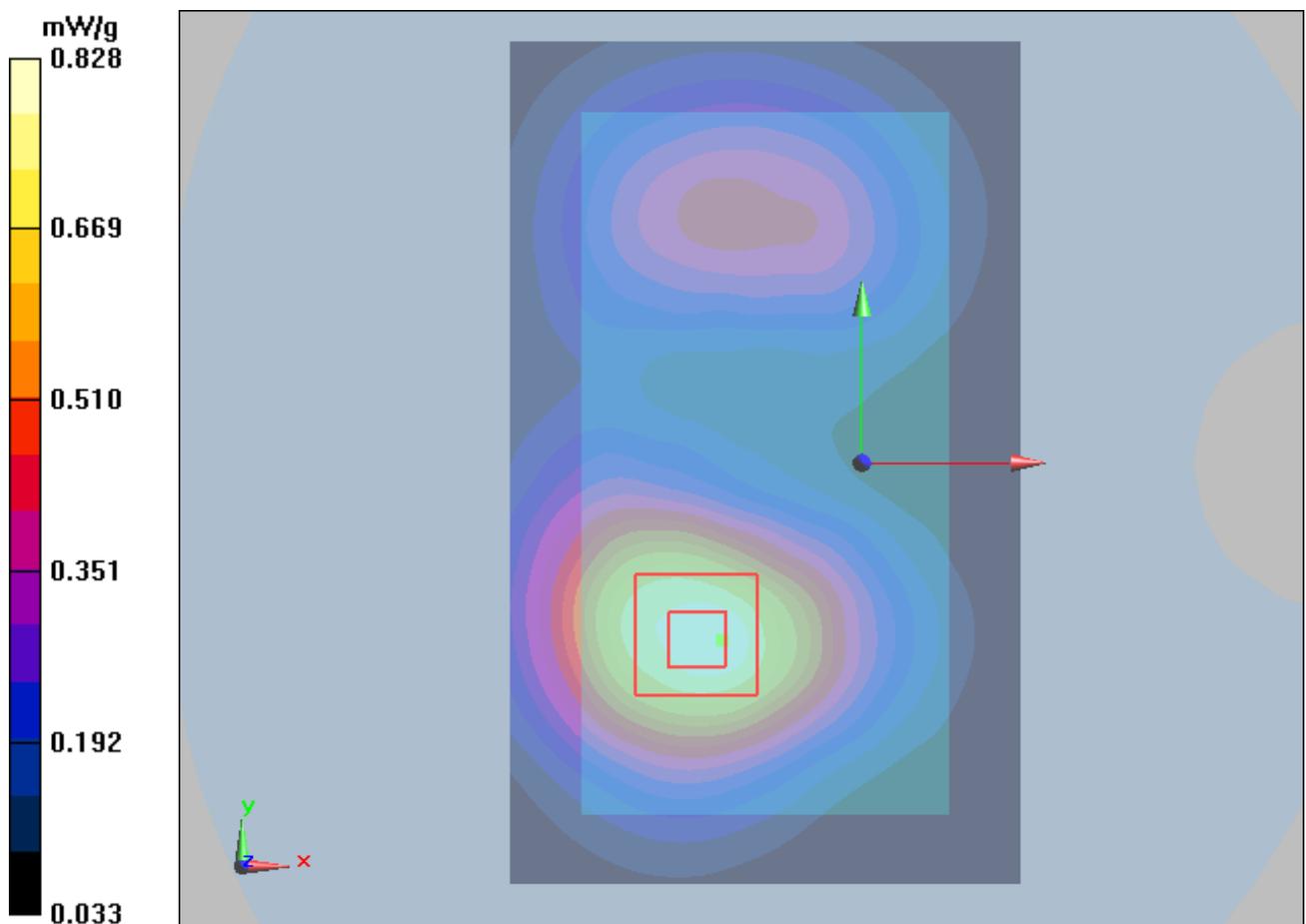


Figure 140 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 50% RB Front Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/11/2012 2:34:34 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.693 mW/g

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

Reference Value = 9.73 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.933 W/kg

SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.412 mW/g

Maximum value of SAR (measured) = 0.668 mW/g

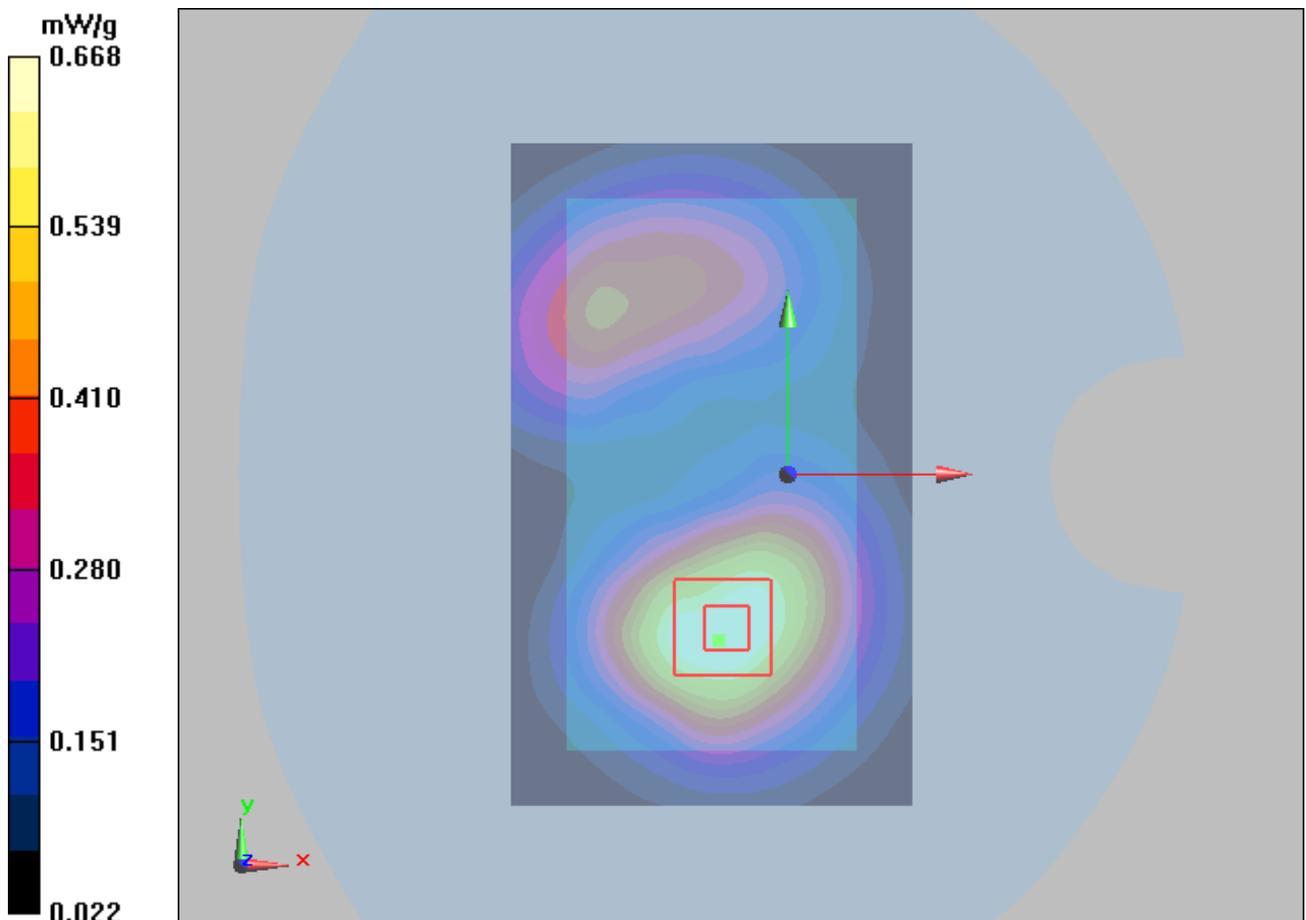


Figure 141 Body, LTE Band 2 with 50% RB Front Side Channel 18900

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LTE Band 2 with 50% RB and Earphone Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/11/2012 2:17:14 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.658 mW/g

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

Reference Value = 13.4 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.923 W/kg

SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.383 mW/g

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

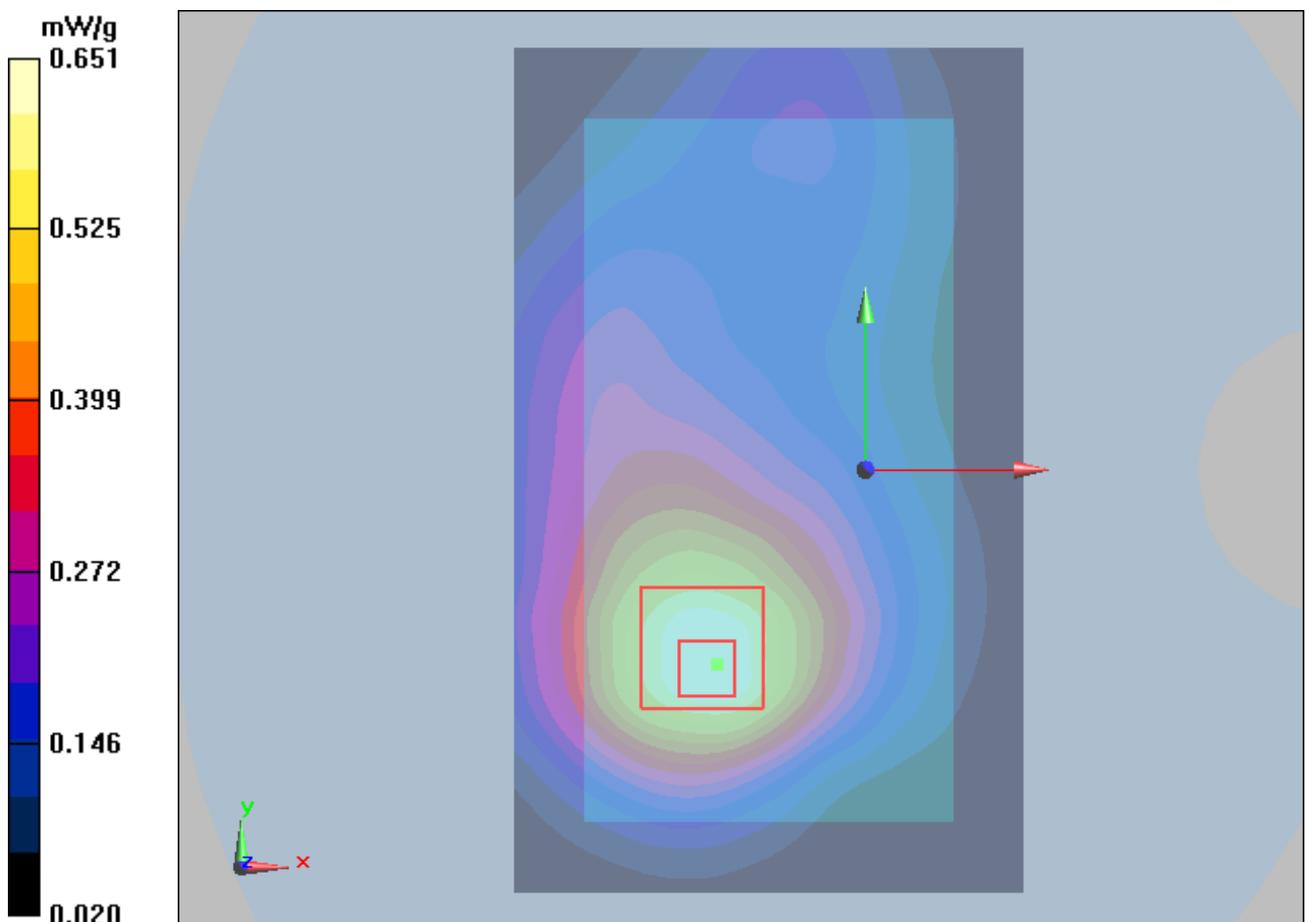


Figure 142 Body, LTE Band 2 with 50% RB and Earphone Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, QPSK, Low end)

Date/Time: 10/11/2012 3:26:19 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.836 mW/g

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

Reference Value = 9.87 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.771 mW/g; SAR(10 g) = 0.496 mW/g

Maximum value of SAR (measured) = 0.832 mW/g

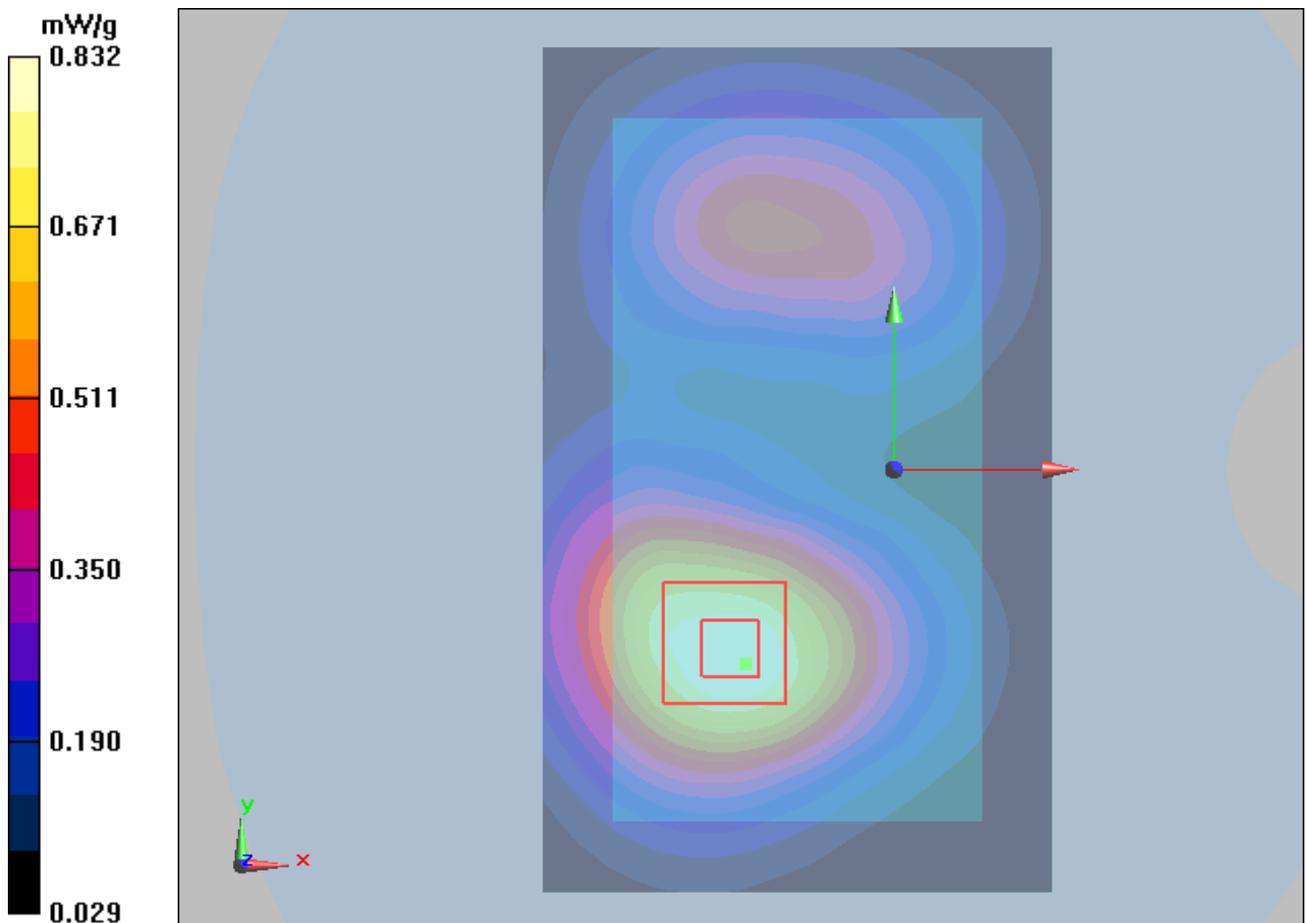


Figure 143 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, QPSK, High end)

Date/Time: 10/11/2012 3:43:05 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.509 mW/g

Maximum value of SAR (measured) = 0.851 mW/g

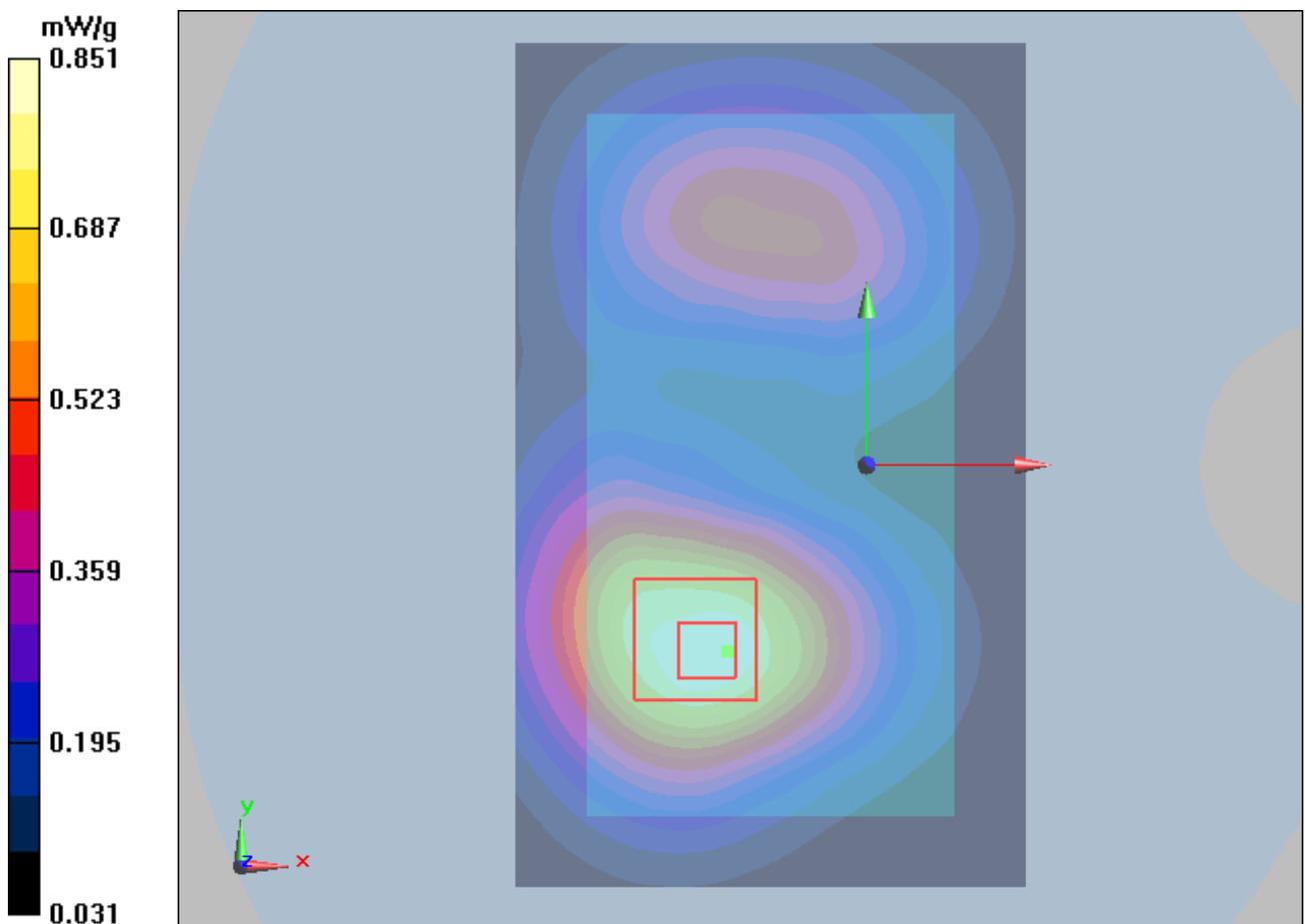


Figure 144 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM)

Date/Time: 10/11/2012 4:34:55 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.2 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.504 mW/g

Maximum value of SAR (measured) = 0.827 mW/g

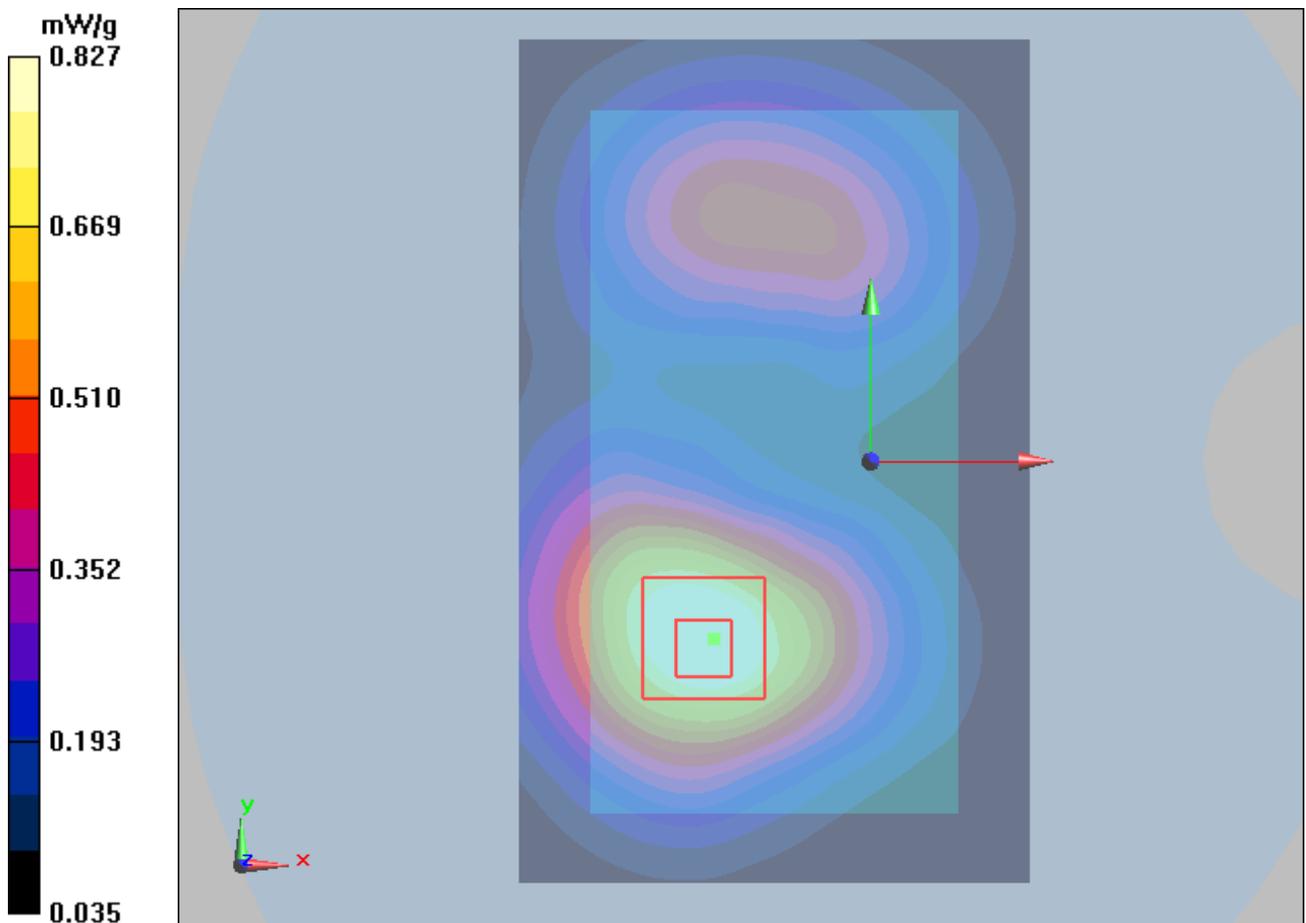


Figure 145 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM, Low end)

Date/Time: 10/11/2012 4:18:45 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.706 mW/g

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

Reference Value = 8.99 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.412 mW/g

Maximum value of SAR (measured) = 0.696 mW/g

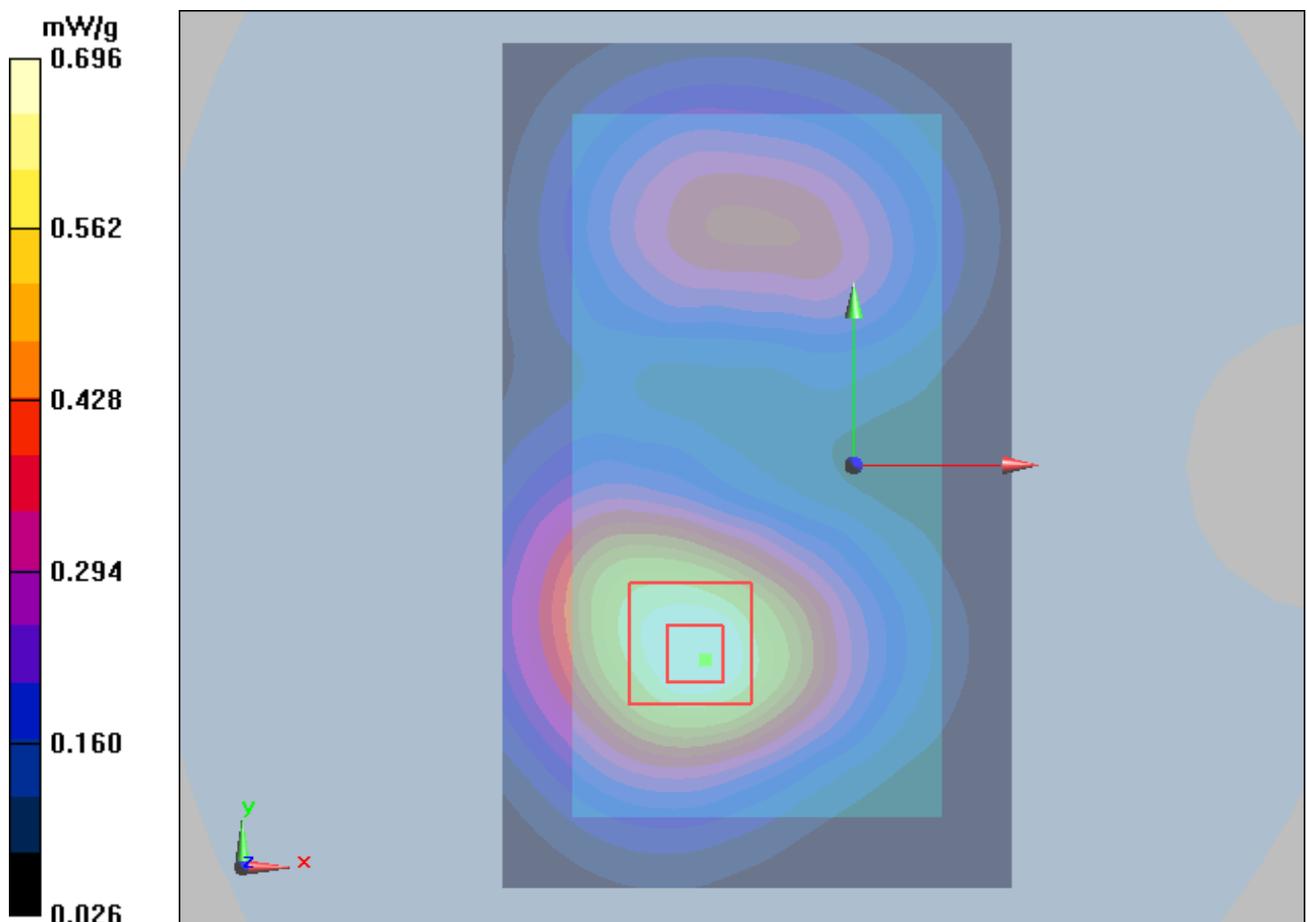


Figure 146 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM, High end)

Date/Time: 10/11/2012 4:02:49 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.697 mW/g

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

Reference Value = 9.07 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.985 W/kg

SAR(1 g) = 0.658 mW/g; SAR(10 g) = 0.420 mW/g

Maximum value of SAR (measured) = 0.708 mW/g

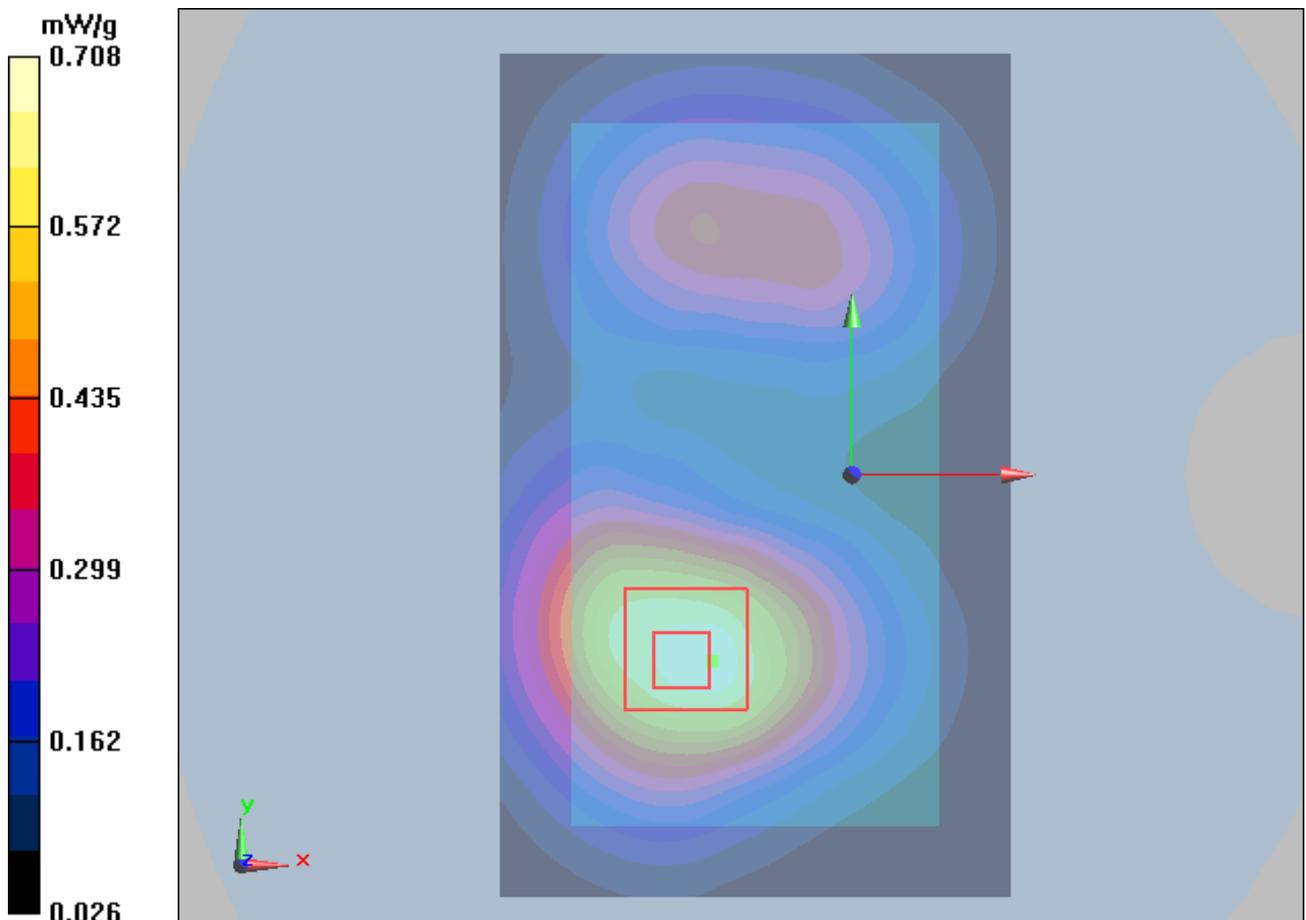


Figure 147 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SN: MAIC702X03600810, Distance 15mm, QPSK, High end)

Date/Time: 10/11/2012 10:18:25 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.888 mW/g

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

Reference Value = 12.8 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.827 mW/g; SAR(10 g) = 0.526 mW/g

Maximum value of SAR (measured) = 0.898 mW/g

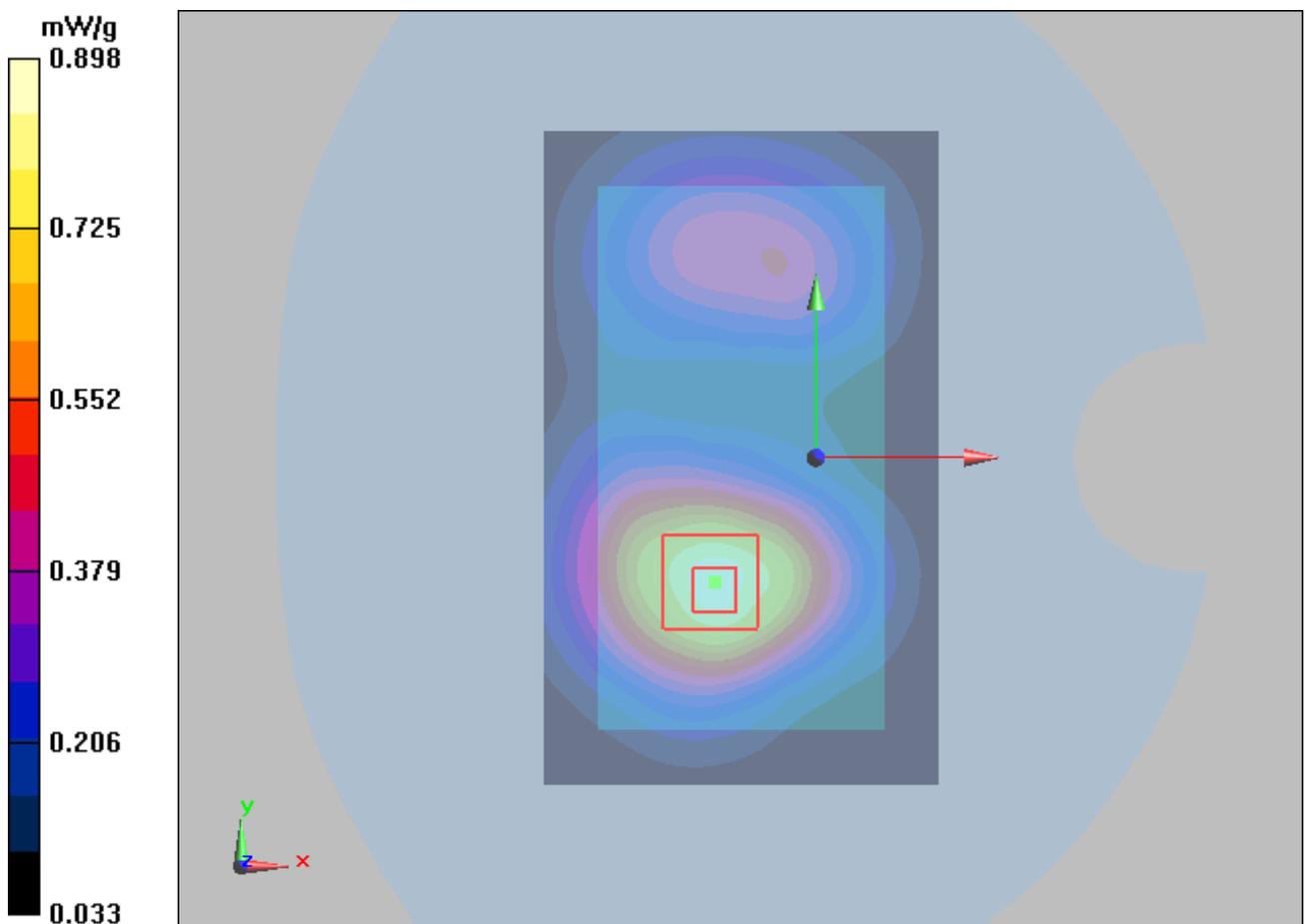


Figure 148 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side High (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 10:29:19 PM

Communication System: LTE; Frequency: 1909.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1909.3$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.17 mW/g

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

Reference Value = 9.99 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.640 mW/g

Maximum value of SAR (measured) = 1.1 mW/g

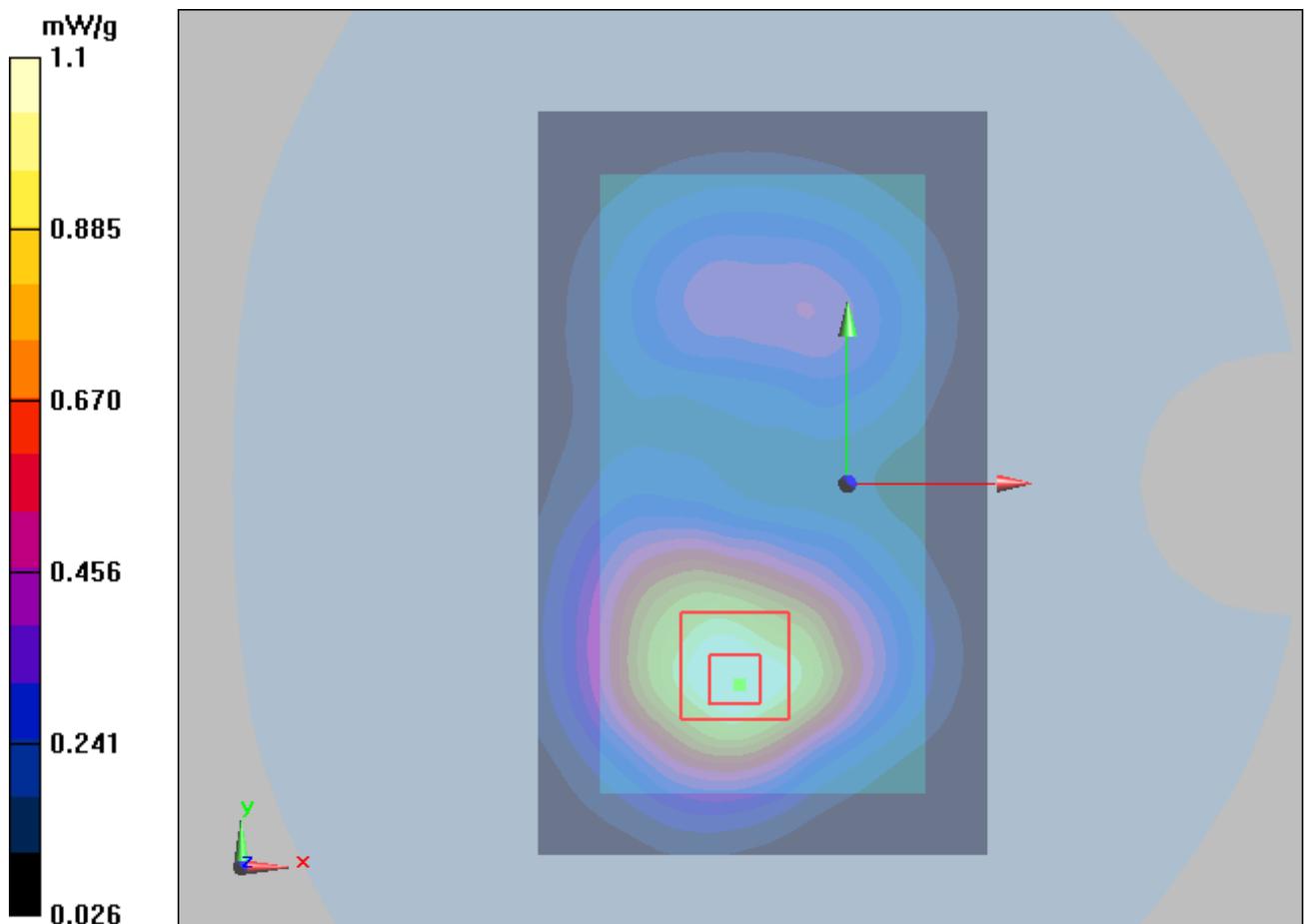


Figure 149 Body, LTE Band 2 with 50% RB Back Side Channel 19193

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LTE Band 2 with 50% RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 10:10:55 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.43 mW/g

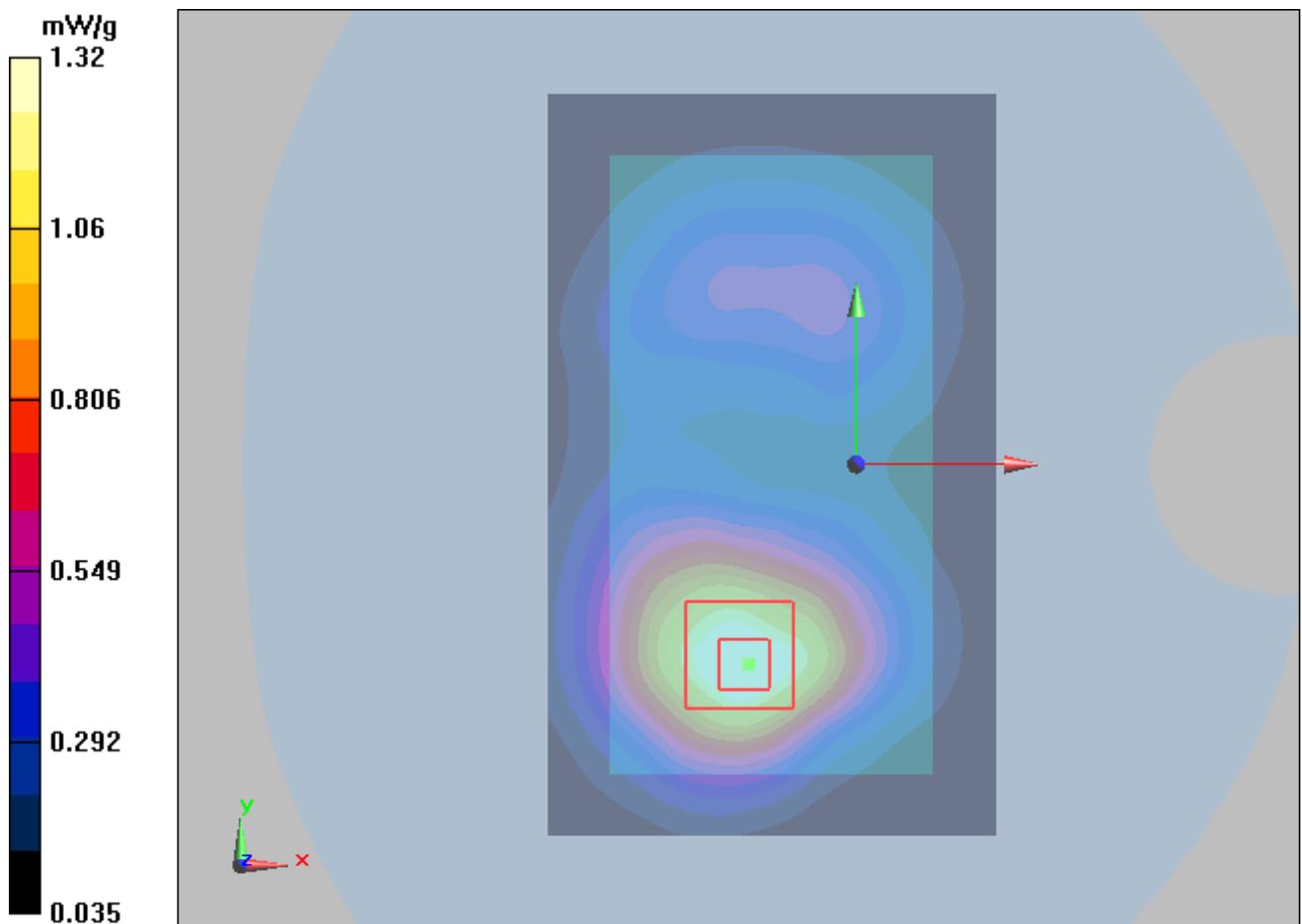
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.766 mW/g

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



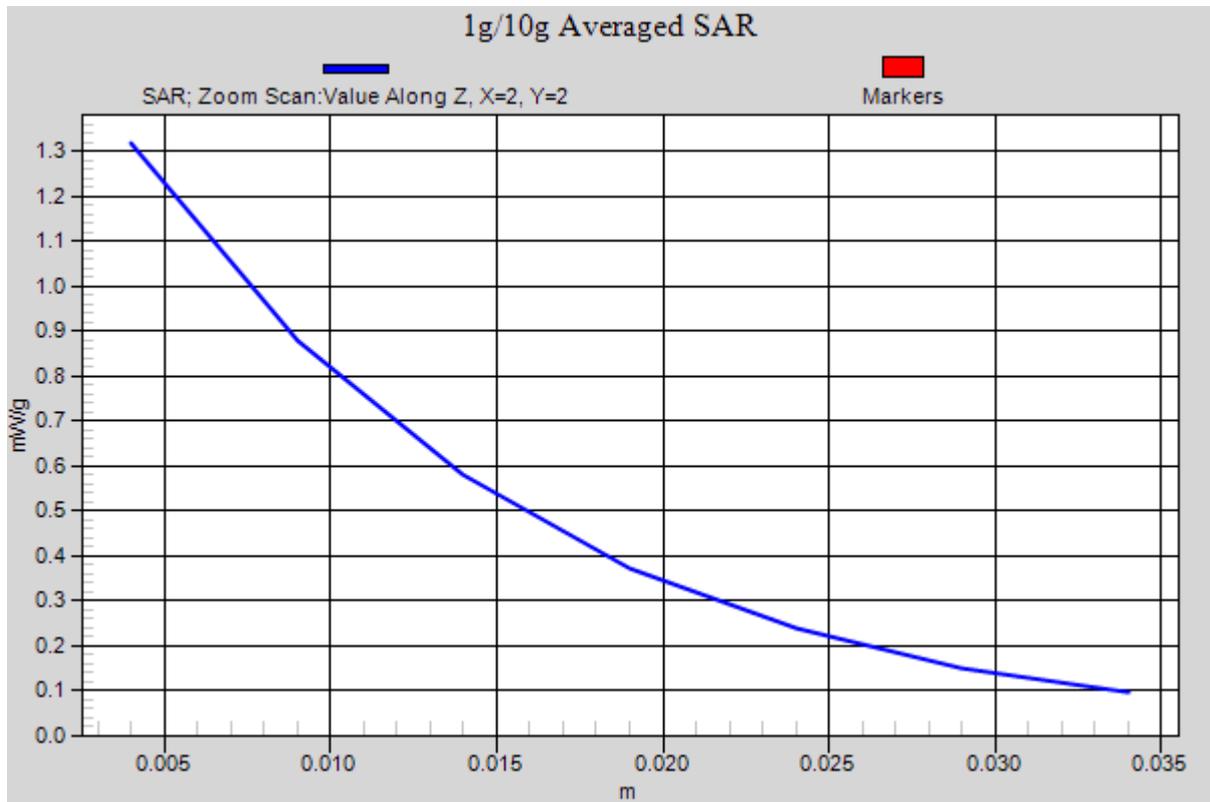


Figure 150 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side Low (1.4MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 11/26/2012 10:46:52 PM

Communication System: LTE; Frequency: 1850.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1851$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.36 mW/g

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

Reference Value = 10 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.739 mW/g

Maximum value of SAR (measured) = 1.27 mW/g

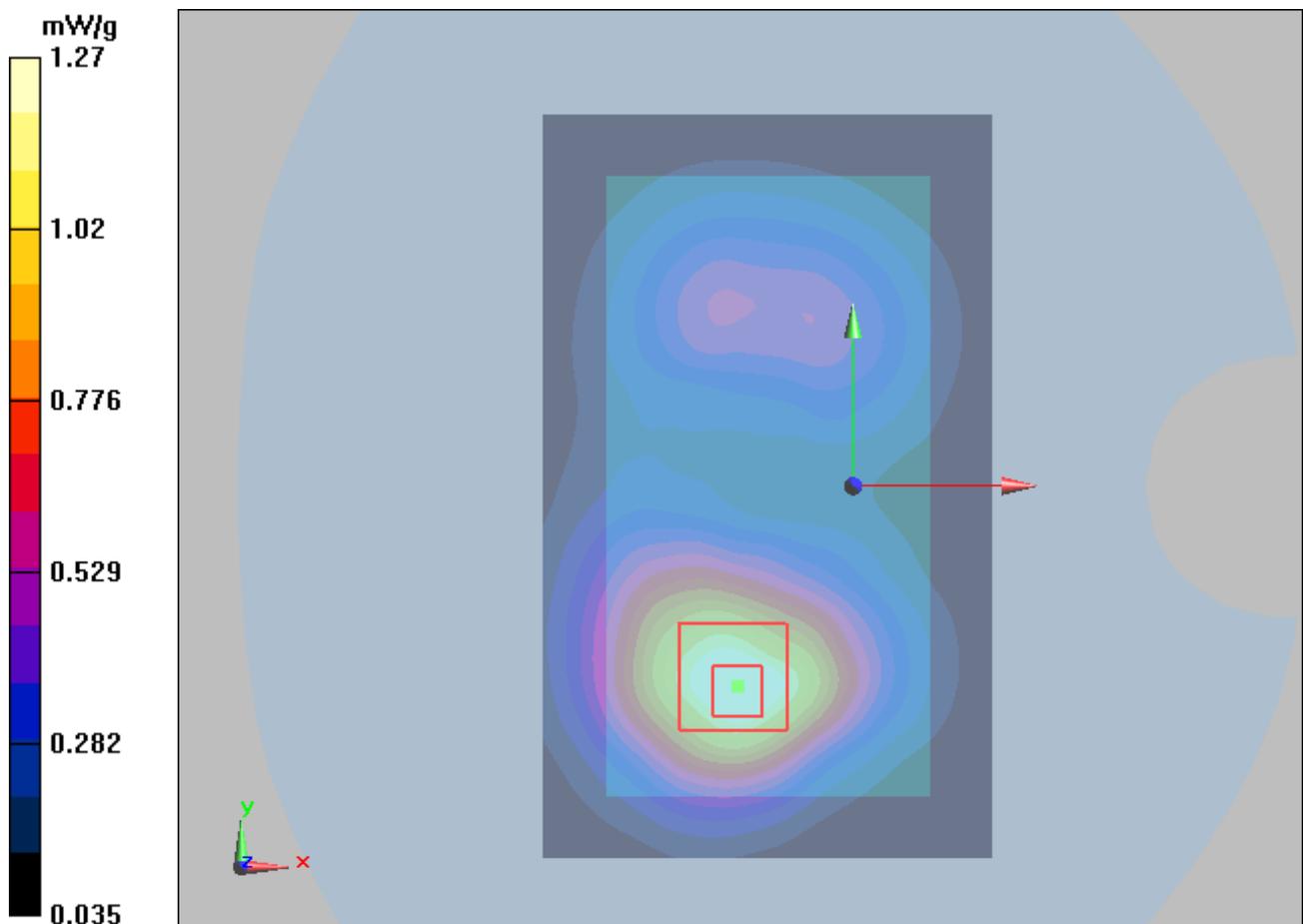


Figure 151 Body, LTE Band 2 with 50% RB Back Side Channel 18607

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LTE Band 2 with 50% RB Front Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/27/2012 1:03:38 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.932 mW/g

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

Reference Value = 11.4 V/m; Power Drift = -0.129 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.832 mW/g; SAR(10 g) = 0.535 mW/g

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

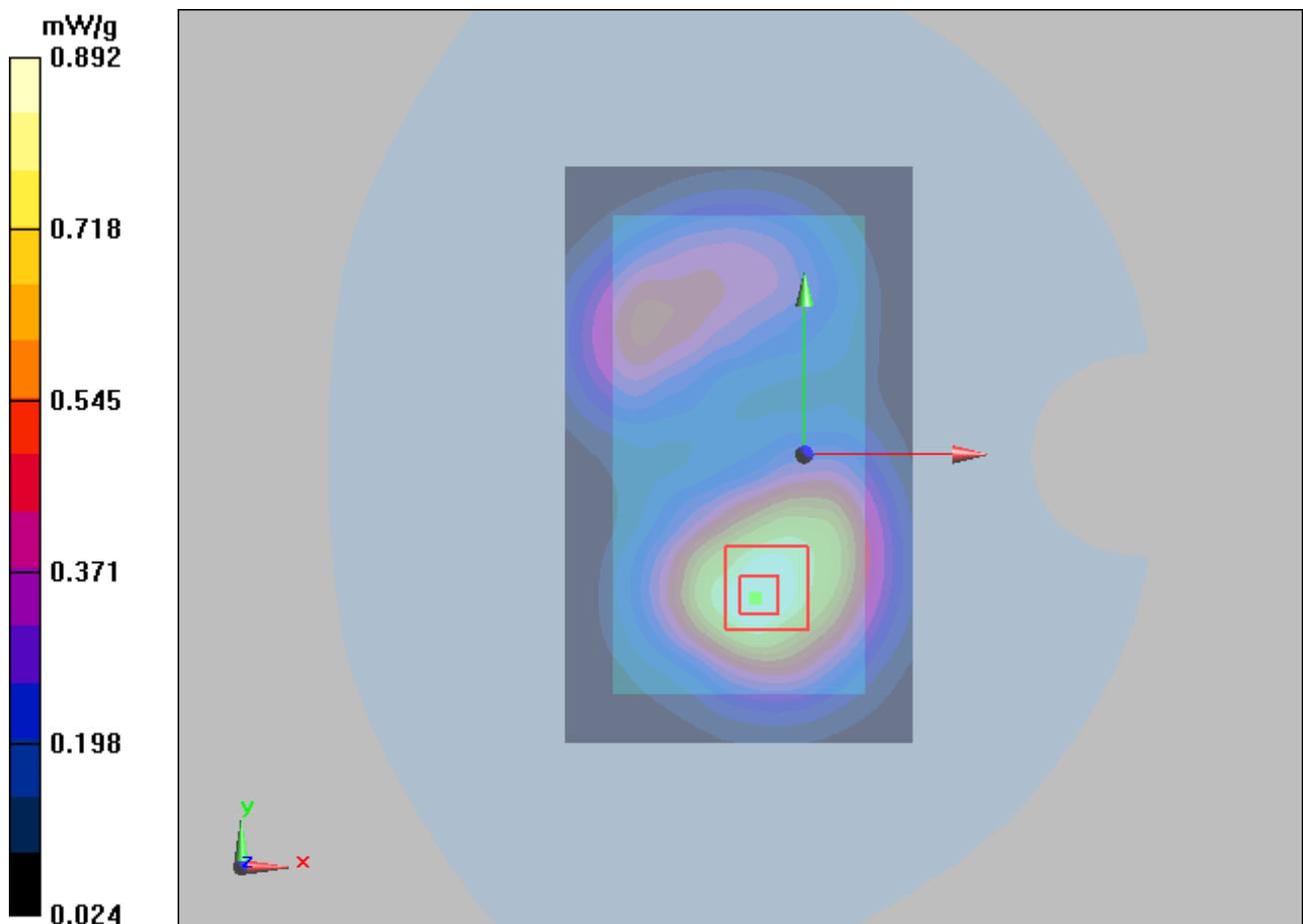


Figure 152 Body, LTE Band 2 with 50% RB Front Side Channel 18900

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LTE Band 2 with 50% RB Right Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/27/2012 1:22:20 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.839 mW/g

Front Side Middle/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.902 W/kg

SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.340 mW/g

Maximum value of SAR (measured) = 0.620 mW/g

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

Reference Value = 18.1 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.752 mW/g; SAR(10 g) = 0.436 mW/g

Maximum value of SAR (measured) = 0.828 mW/g

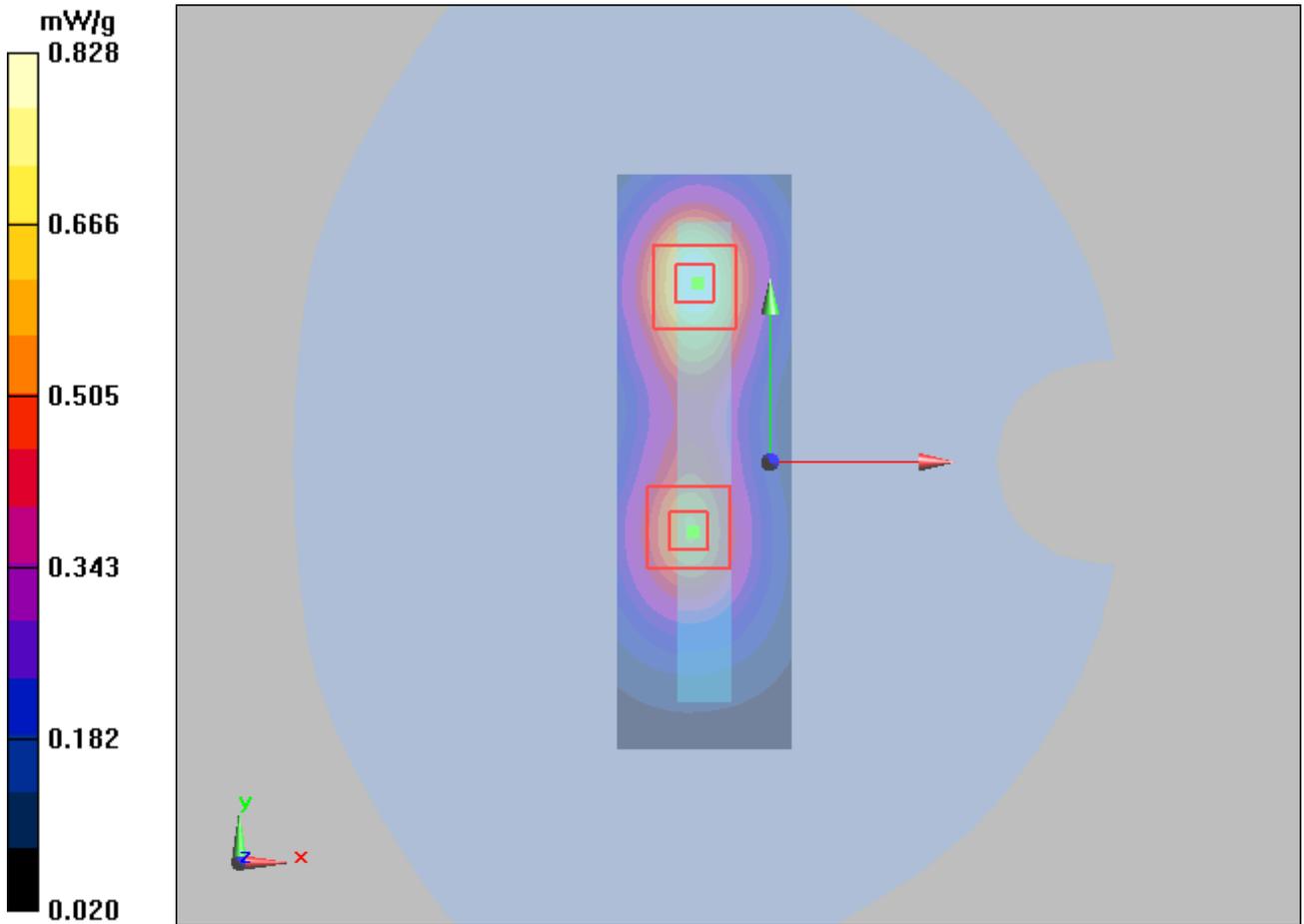


Figure 153 Body, LTE Band 2 with 50% RB Right Side Channel 18900

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LTE Band 2 with 50% RB Bottom Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/27/2012 1:44:01 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Side Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.217 mW/g

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

Reference Value = 11 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.115 mW/g

Maximum value of SAR (measured) = 0.199 mW/g

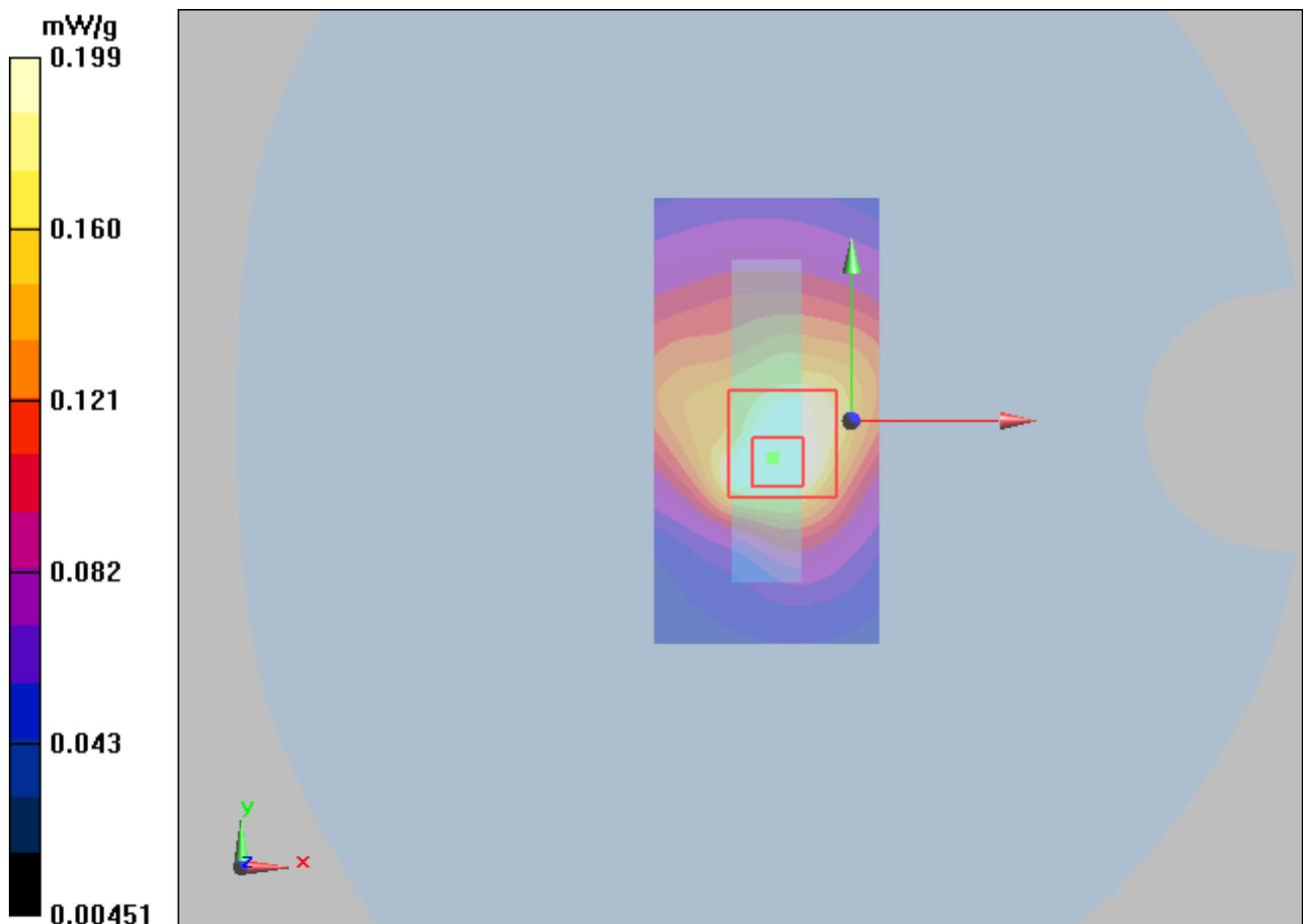


Figure 154 Body, LTE Band 2 with 50% RB Bottom Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm, QPSK, Low end)

Date/Time: 11/26/2012 11:10:13 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.38 mW/g

Back Side Middle(Low)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.744 mW/g

Maximum value of SAR (measured) = 1.28 mW/g

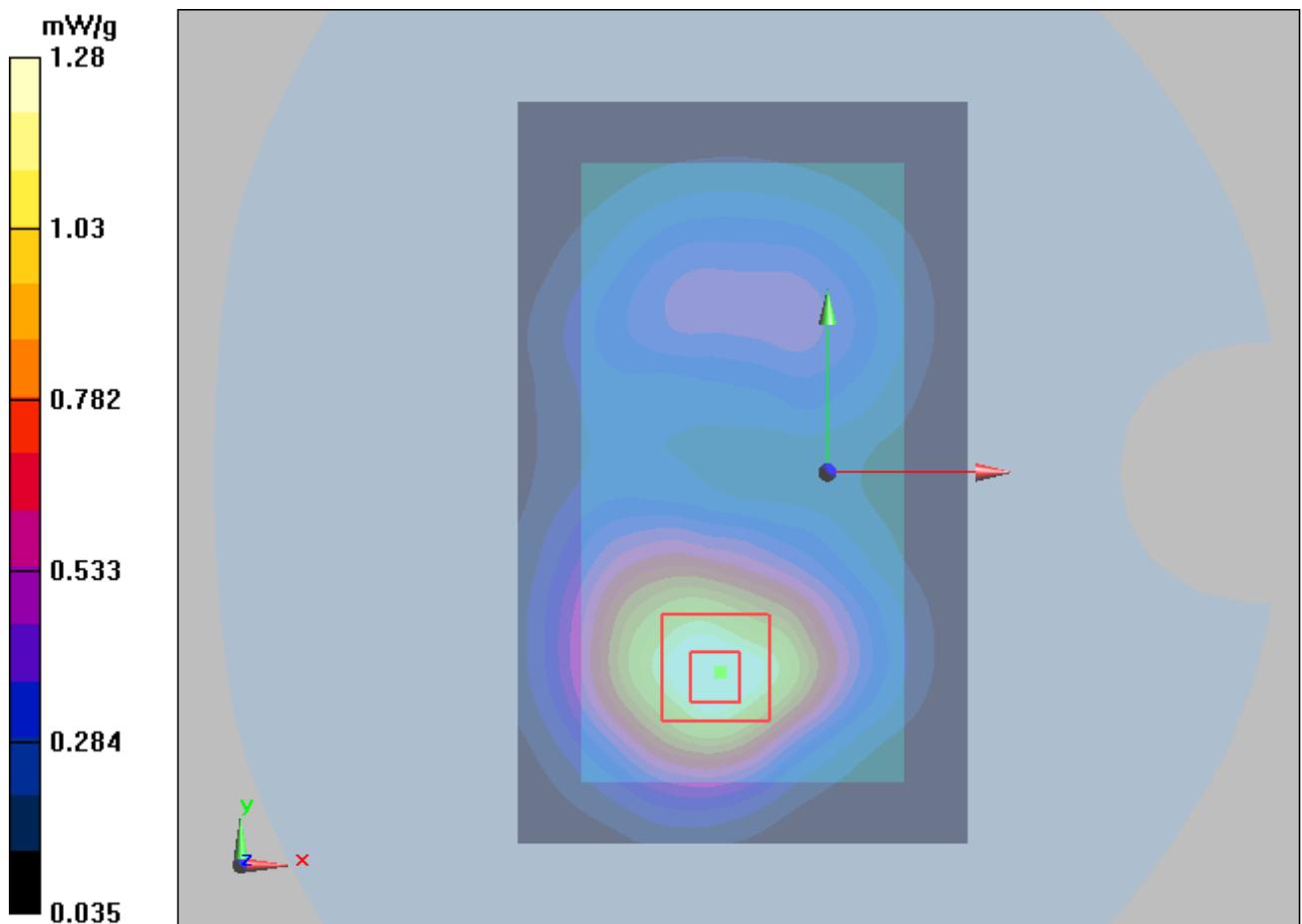


Figure 155 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK, High end)

Date/Time: 11/26/2012 11:26:23 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.39 mW/g

Back Side Middle(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.753 mW/g

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

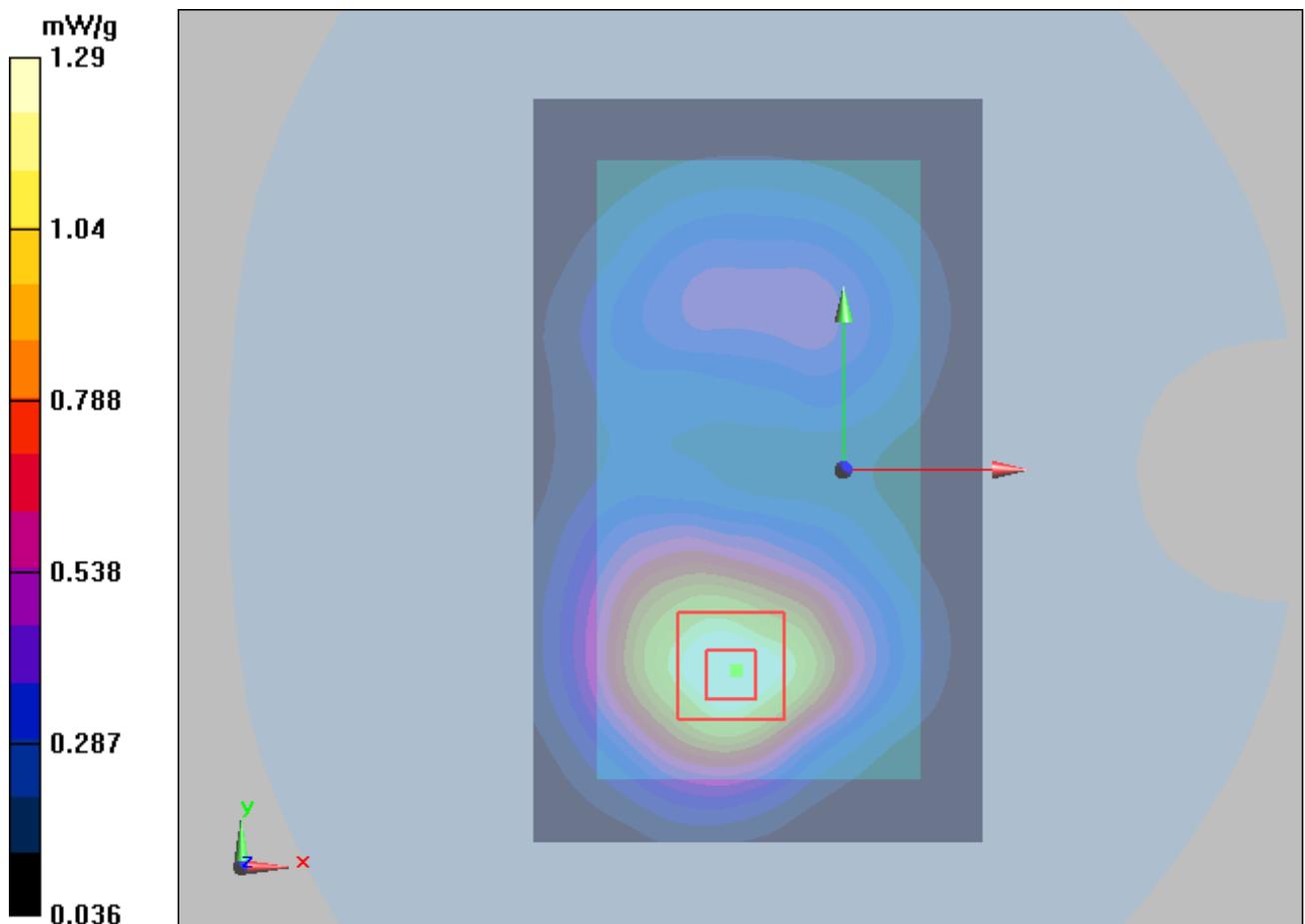


Figure 156 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 50% RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm, 16QAM)

Date/Time: 11/26/2012 11:45:08 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.11 mW/g

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

Reference Value = 9.63 V/m; Power Drift = 0.693 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.626 mW/g

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

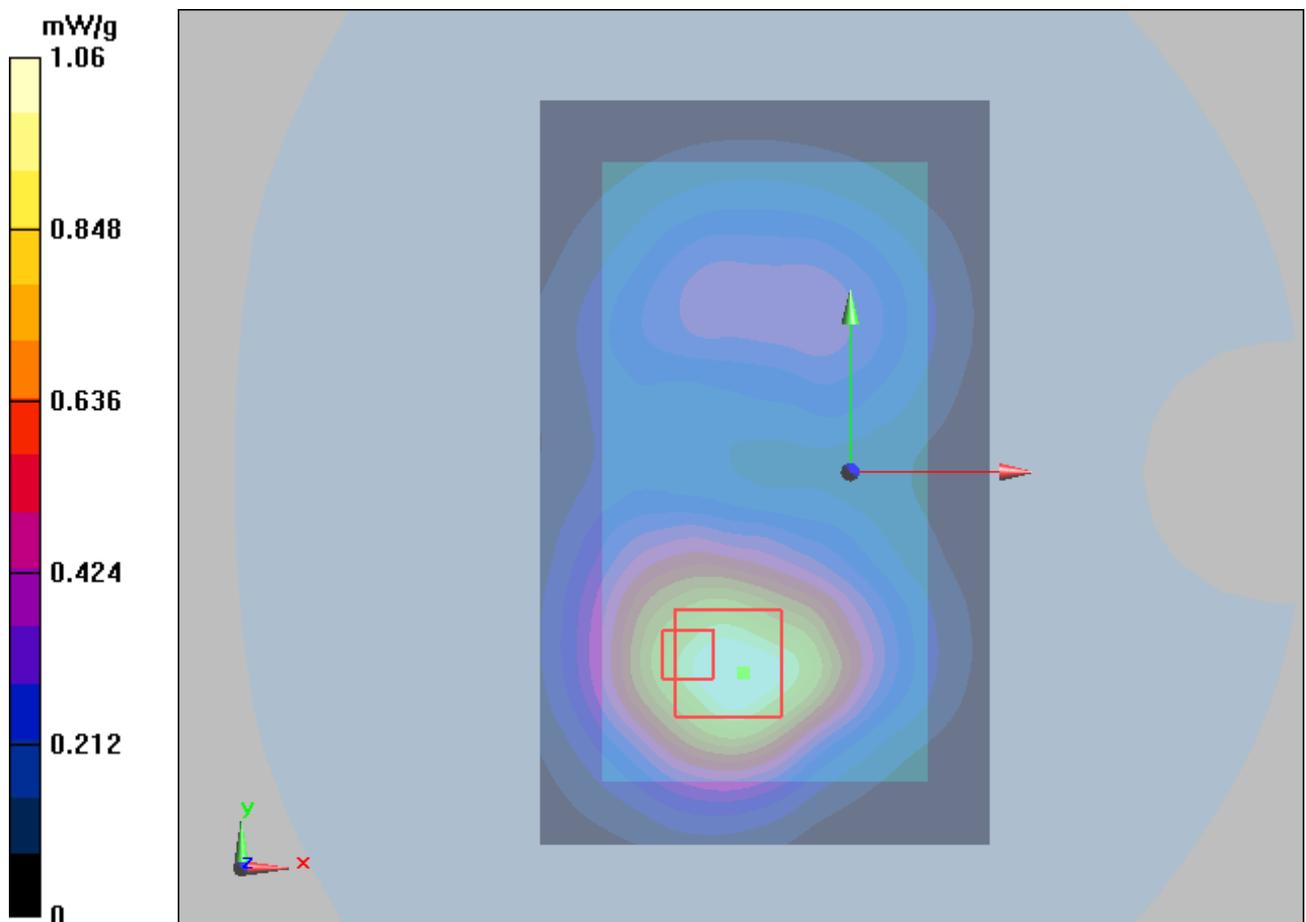


Figure 157 Body, LTE Band 2 with 50% RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, Low end)

Date/Time: 11/27/2012 12:13:55 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.11 mW/g

Back Side Middle(Low)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.605 mW/g

Maximum value of SAR (measured) = 1.04 mW/g

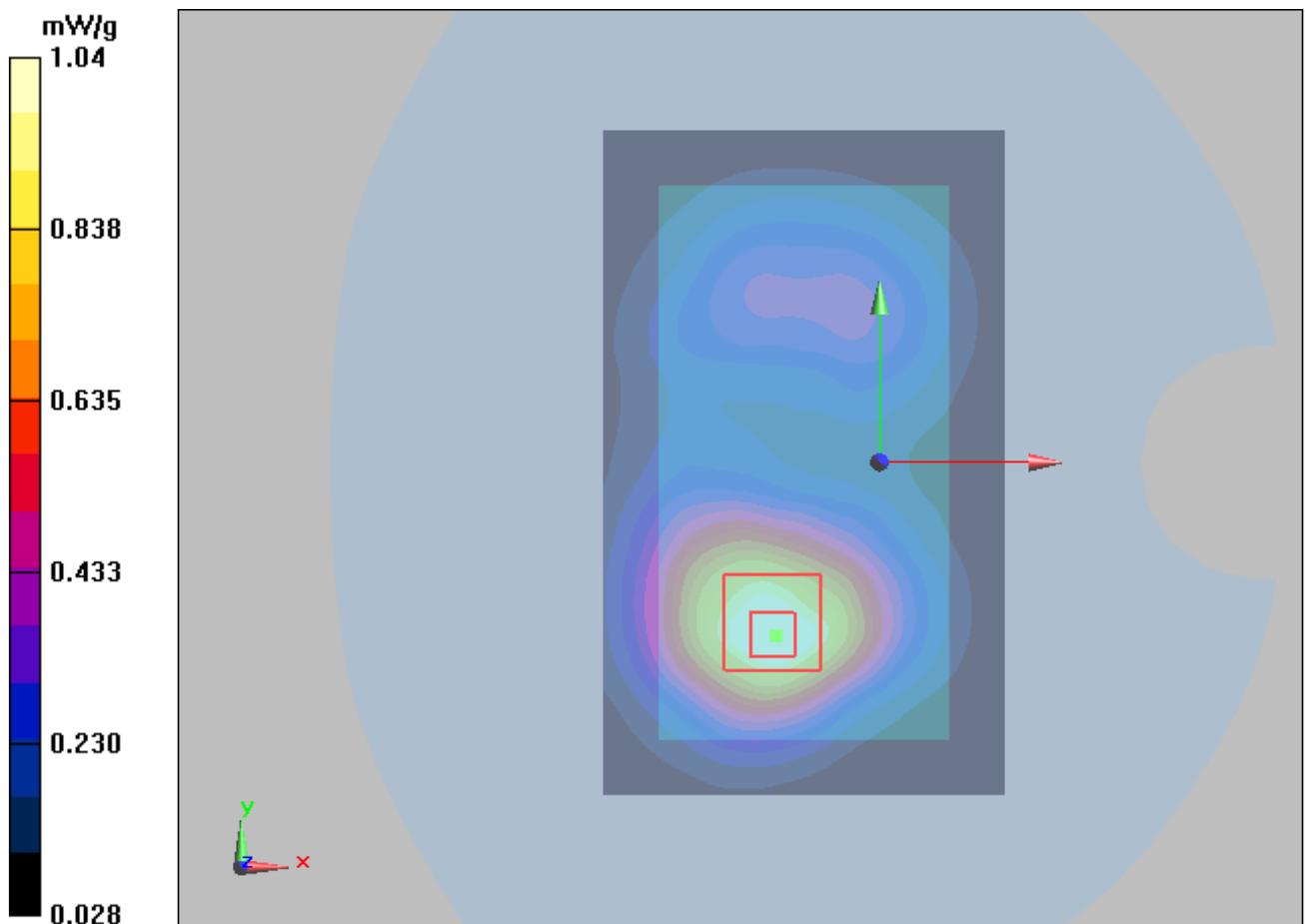


Figure 158 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, High end)

Date/Time: 11/27/2012 12:45:39 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

Back Side Middle(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.599 mW/g

Maximum value of SAR (measured) = 1.04 mW/g

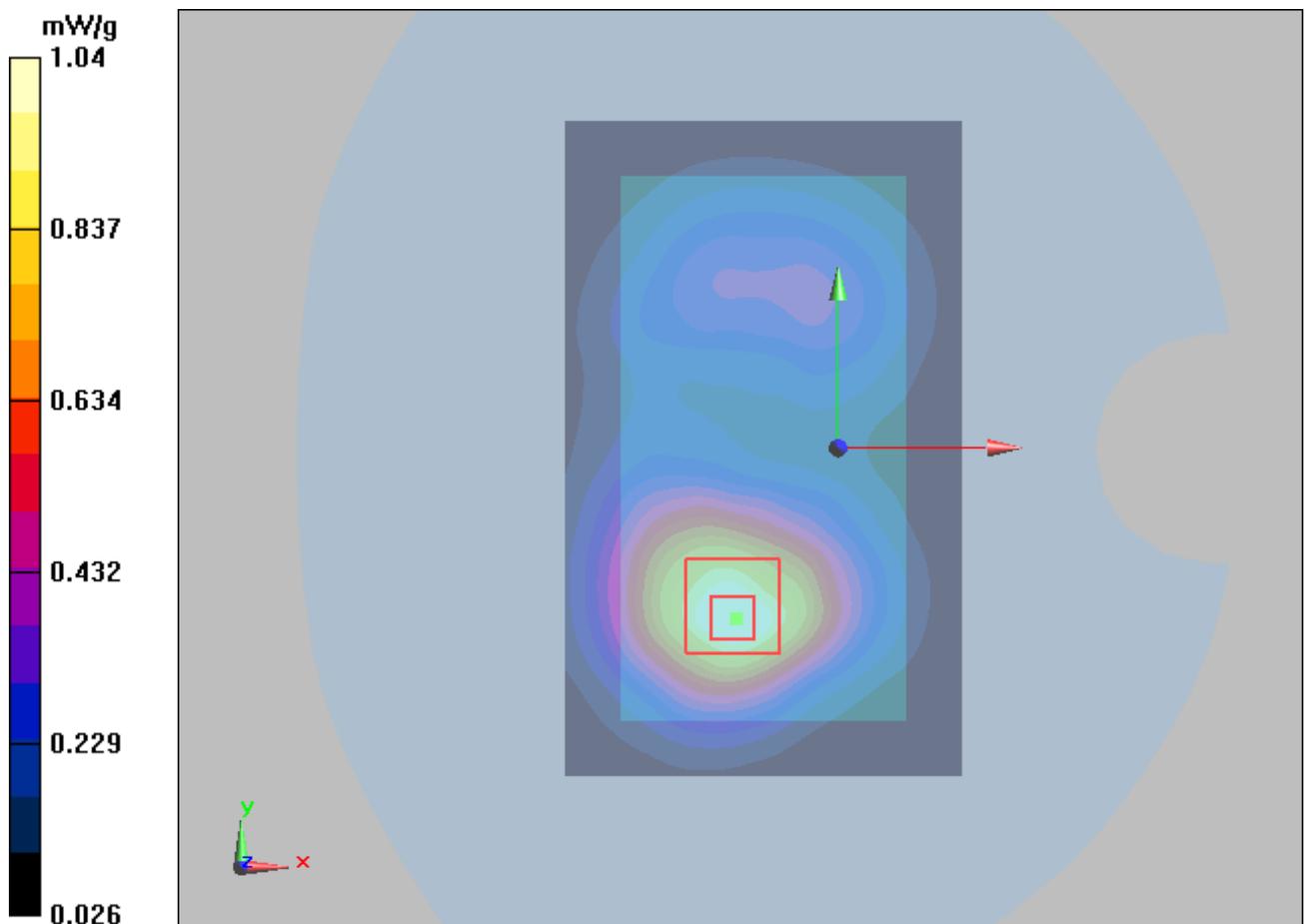


Figure 159 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 2 with 1 RB Back Side Middle (1.4MHz, SVLTE, SN: MAIC702X03600810, Distance 10mm, QPSK, High end)

Date/Time: 11/27/2012 3:05:33 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.15 mW/g

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

Reference Value = 13.4 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.631 mW/g

Maximum value of SAR (measured) = 1.1 mW/g

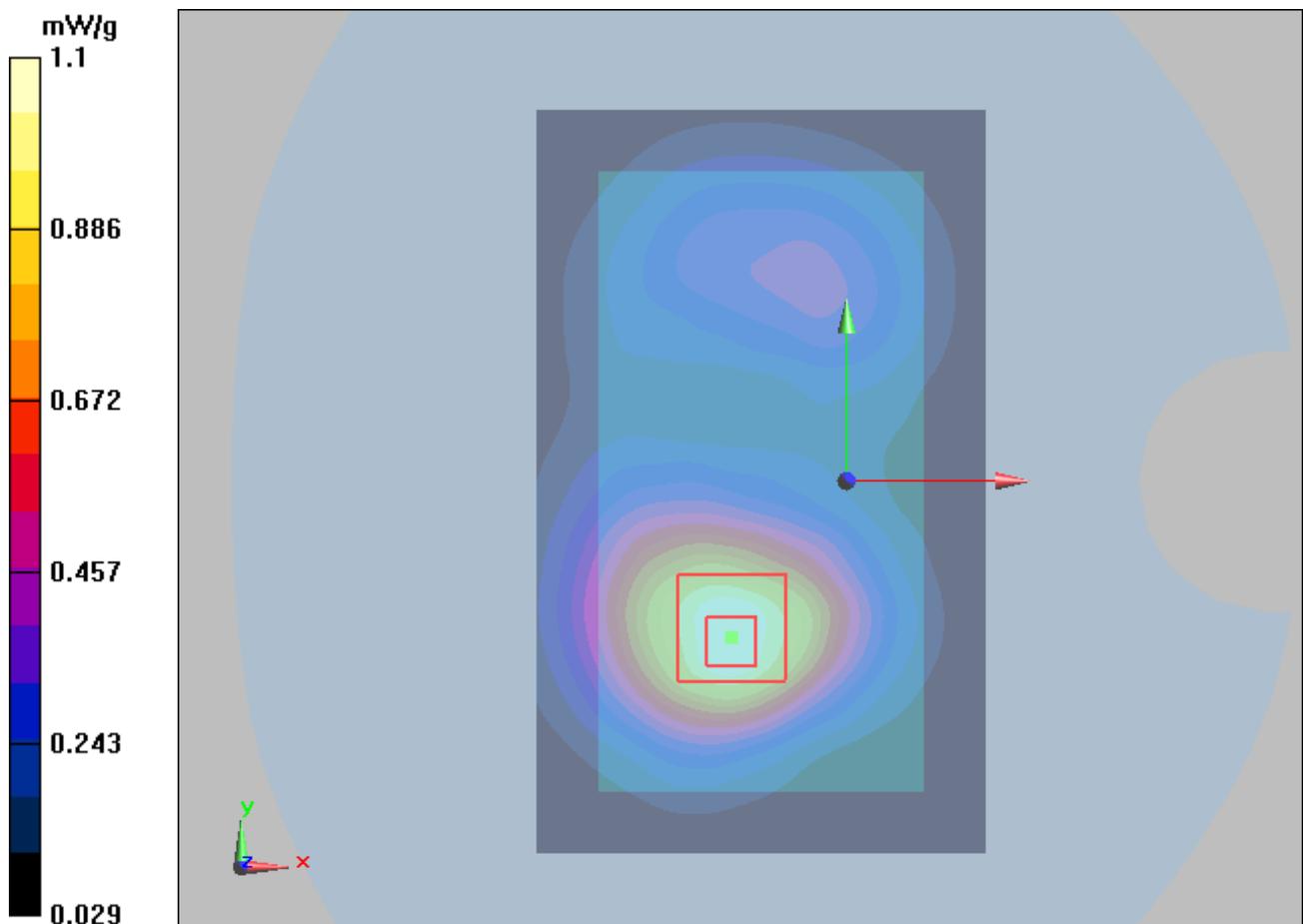


Figure 160 Body, LTE Band 2 with 1 RB Back Side Channel 18900

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LTE Band 4 with 50% RB Left Cheek Middle (10MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 7:31:50 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.2 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.352 mW/g

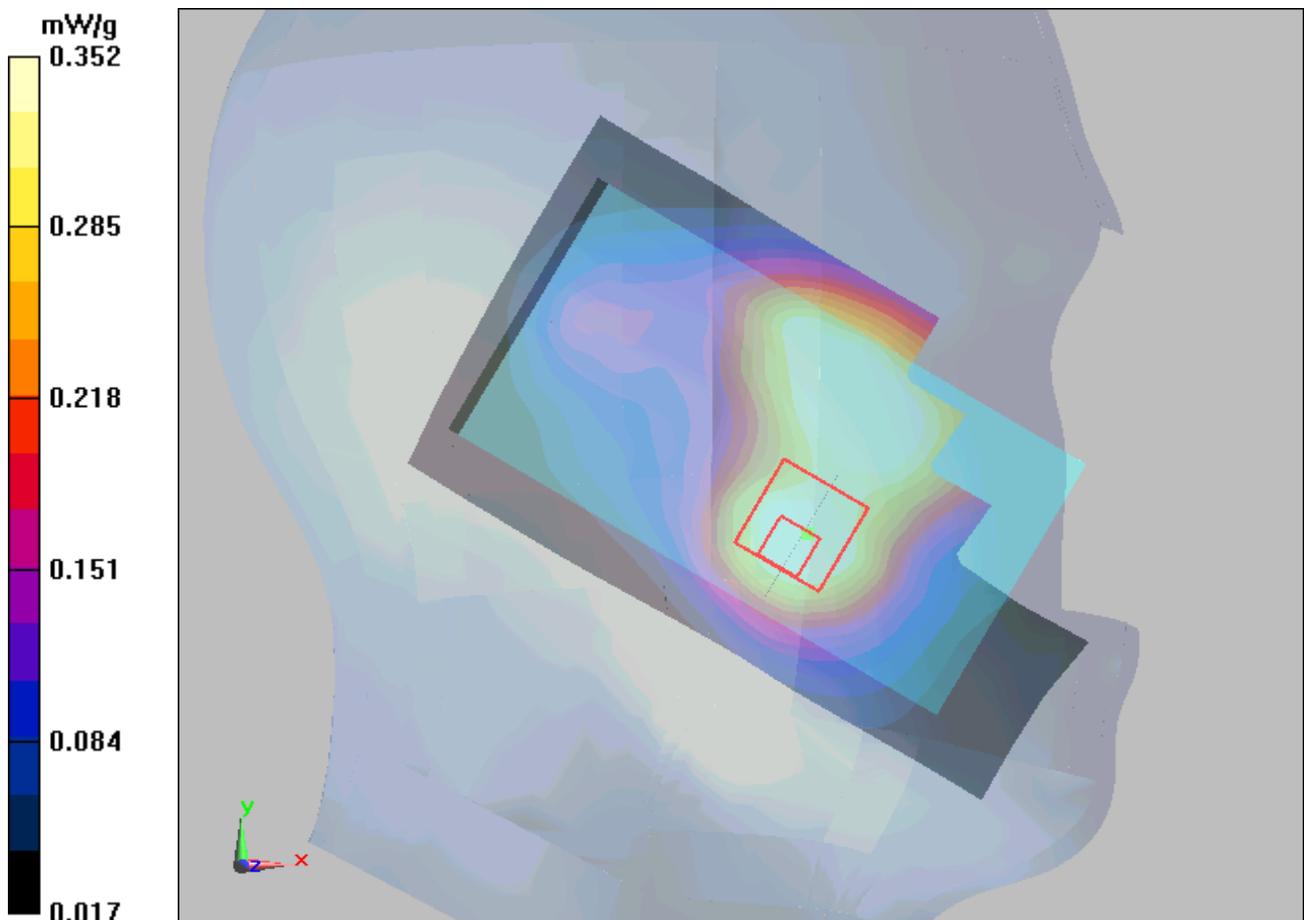


Figure 161 LTE Band 4 with 50% RB Left Hand Touch Cheek Channel 20175

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LTE Band 4 with 50% RB Left Tilt Middle (10MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 7:46:35 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.372 mW/g

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

Reference Value = 15.4 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 0.507 W/kg

SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.196 mW/g

Maximum value of SAR (measured) = 0.358 mW/g

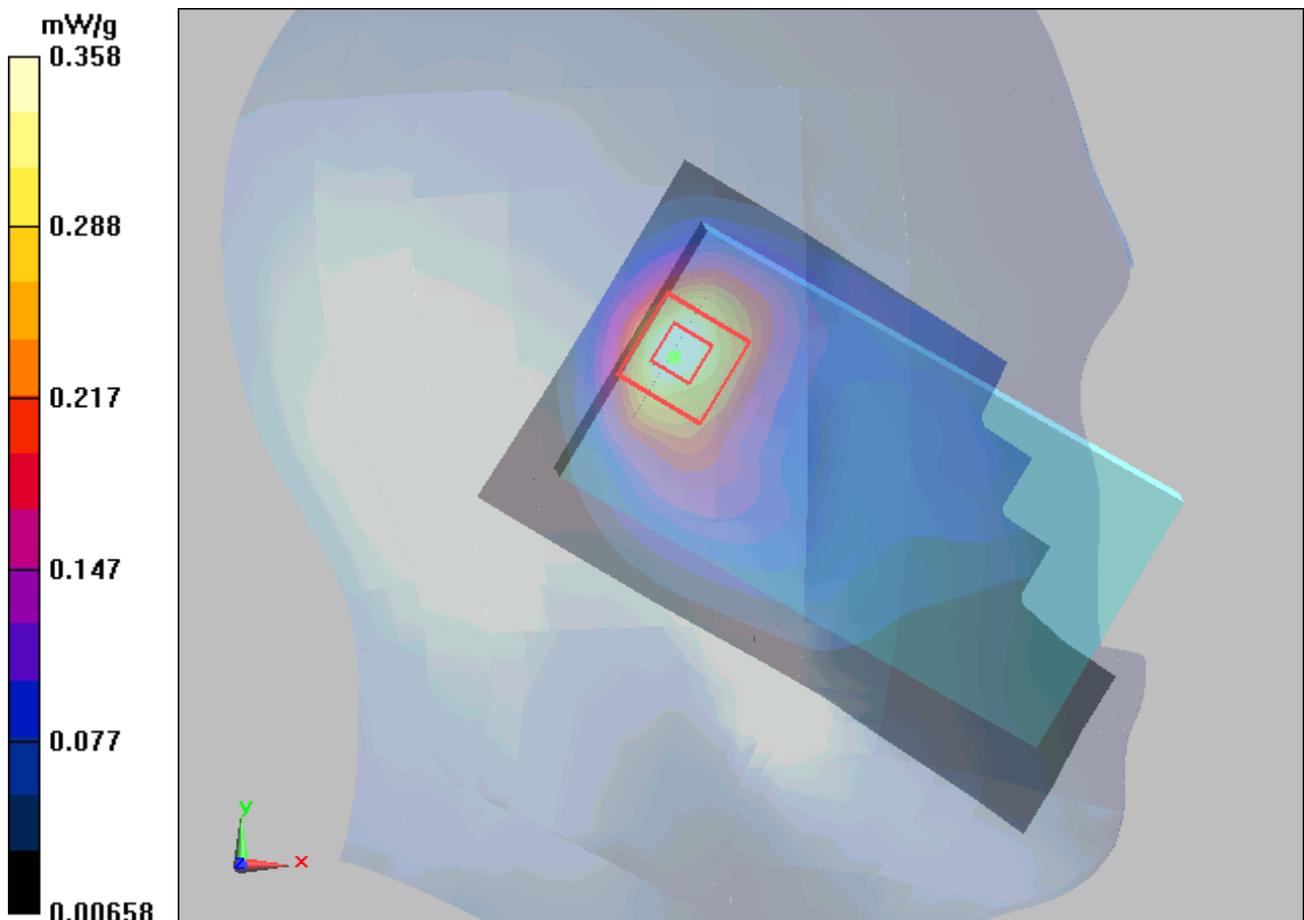


Figure 162 LTE Band 4 with 50% RB Left Hand Tilt 15° Channel 20175

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LTE Band 4 with 50% RB Right Cheek Middle (10MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 8:03:52 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.751 mW/g

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

Reference Value = 9.34 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.428 mW/g

Maximum value of SAR (measured) = 0.749 mW/g

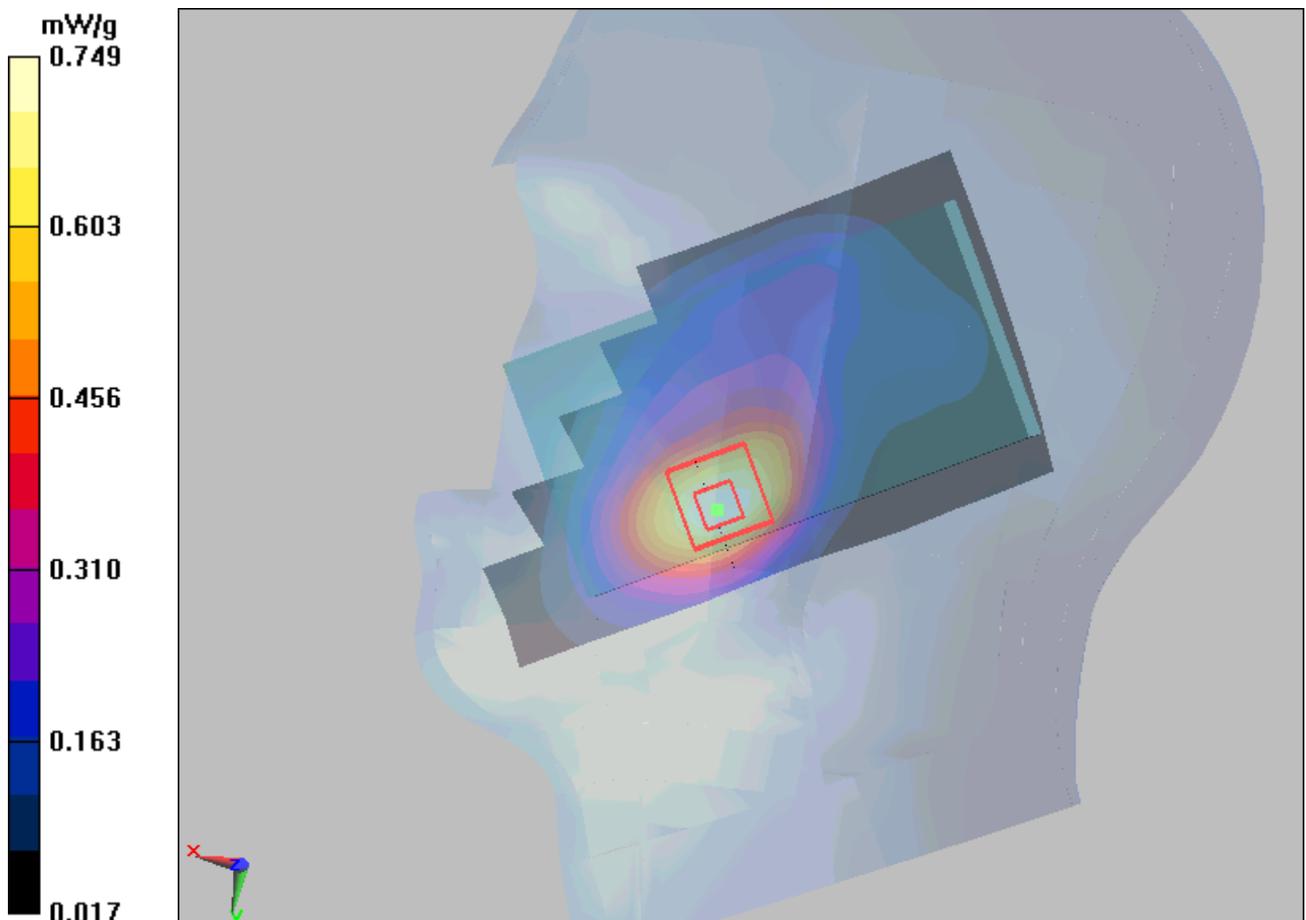


Figure 163 LTE Band 4 with 50% RB Right Hand Touch Cheek Channel 20175

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LTE Band 4 with 50% RB Right Tilt Middle (10MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 8:18:19 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.324 mW/g

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

Reference Value = 14 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.180 mW/g

Maximum value of SAR (measured) = 0.313 mW/g

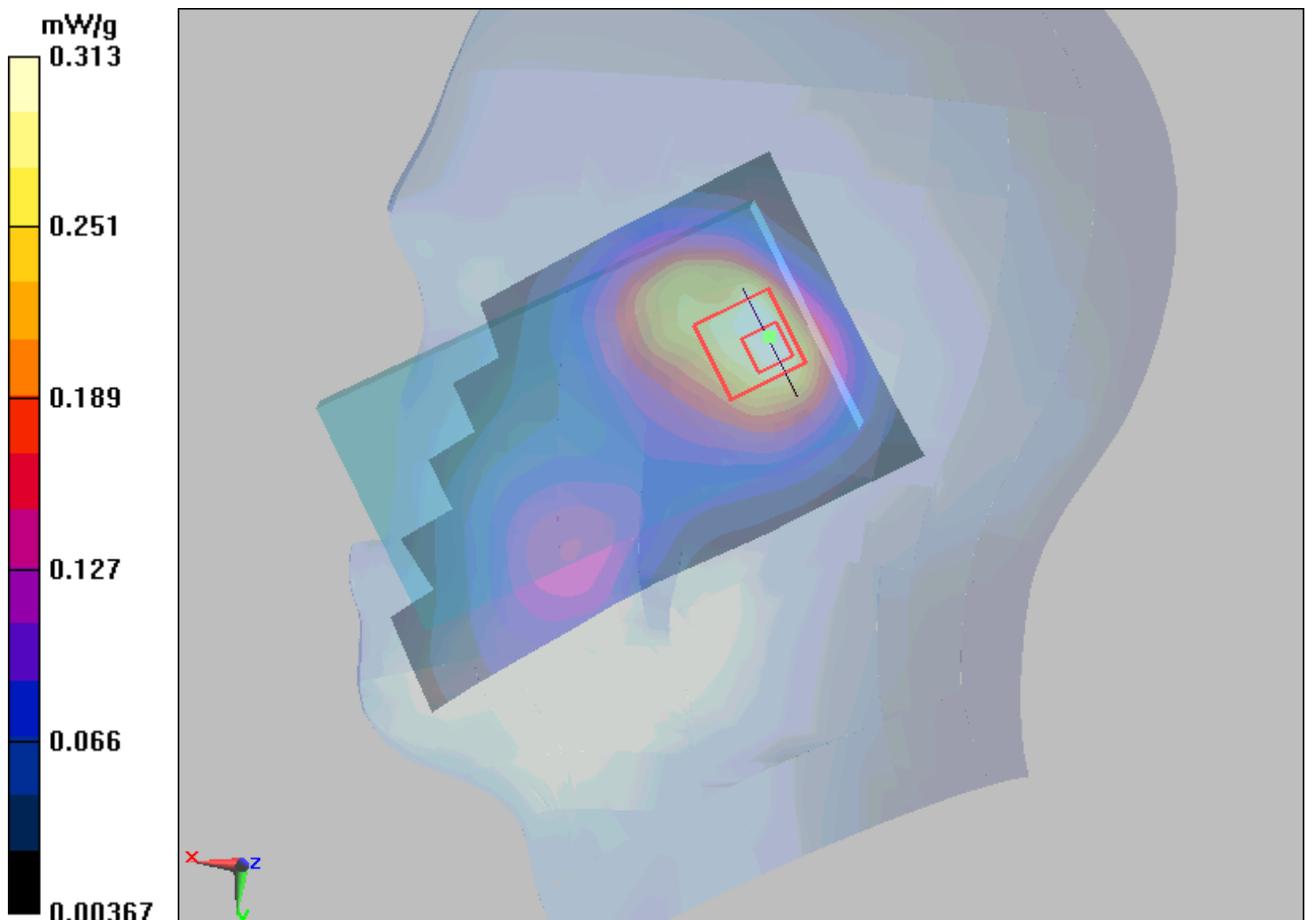


Figure 164 LTE Band 4 with 50% RB Right Hand Tilt 15° Channel 20175

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LTE Band 4 with 1 RB Right Cheek High (10MHz, SN: UWDC320XBGN01407, QPSK, Low end)

Date/Time: 10/13/2012 8:33:54 PM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.08 mW/g

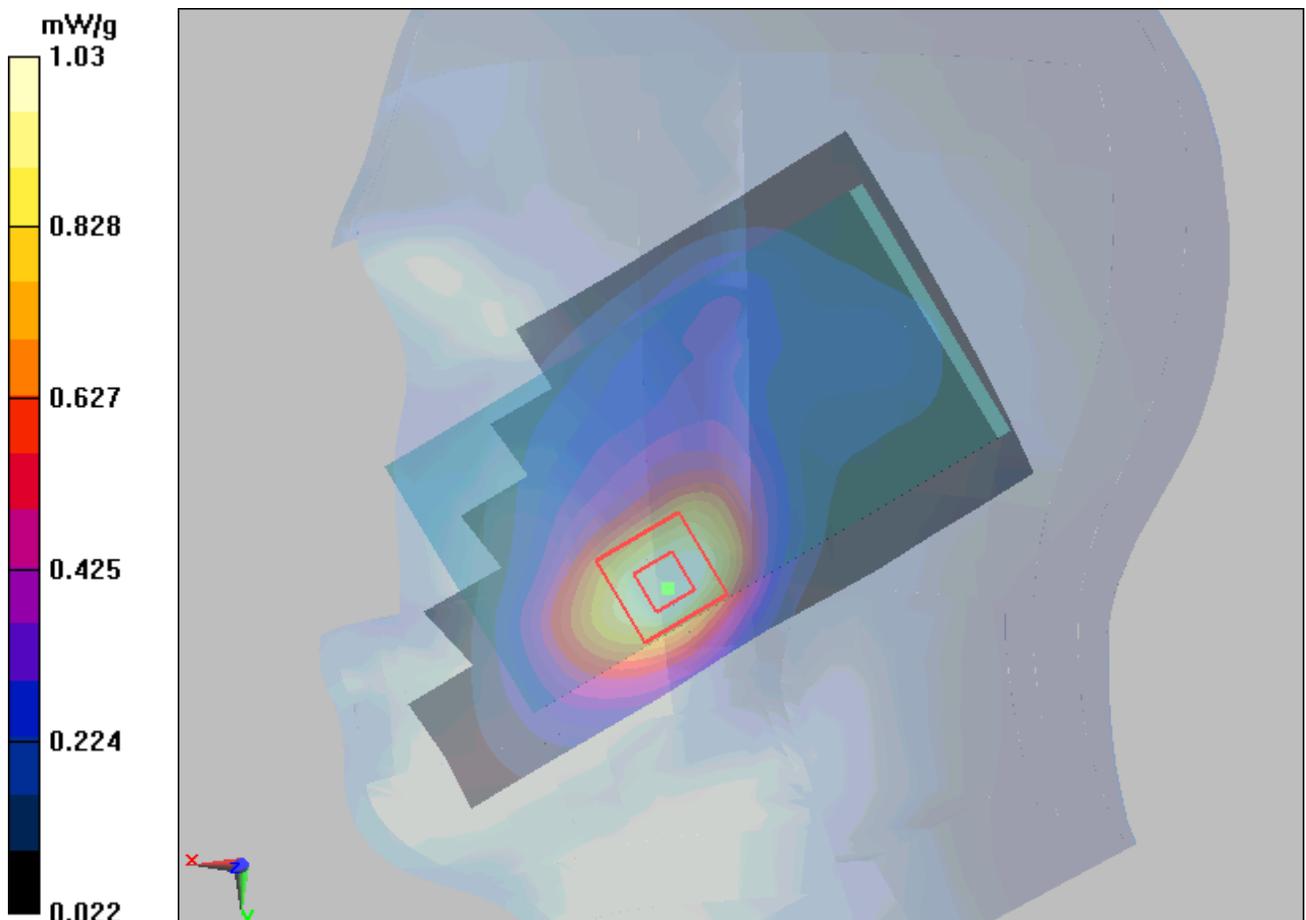
Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.958 mW/g; SAR(10 g) = 0.592 mW/g

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



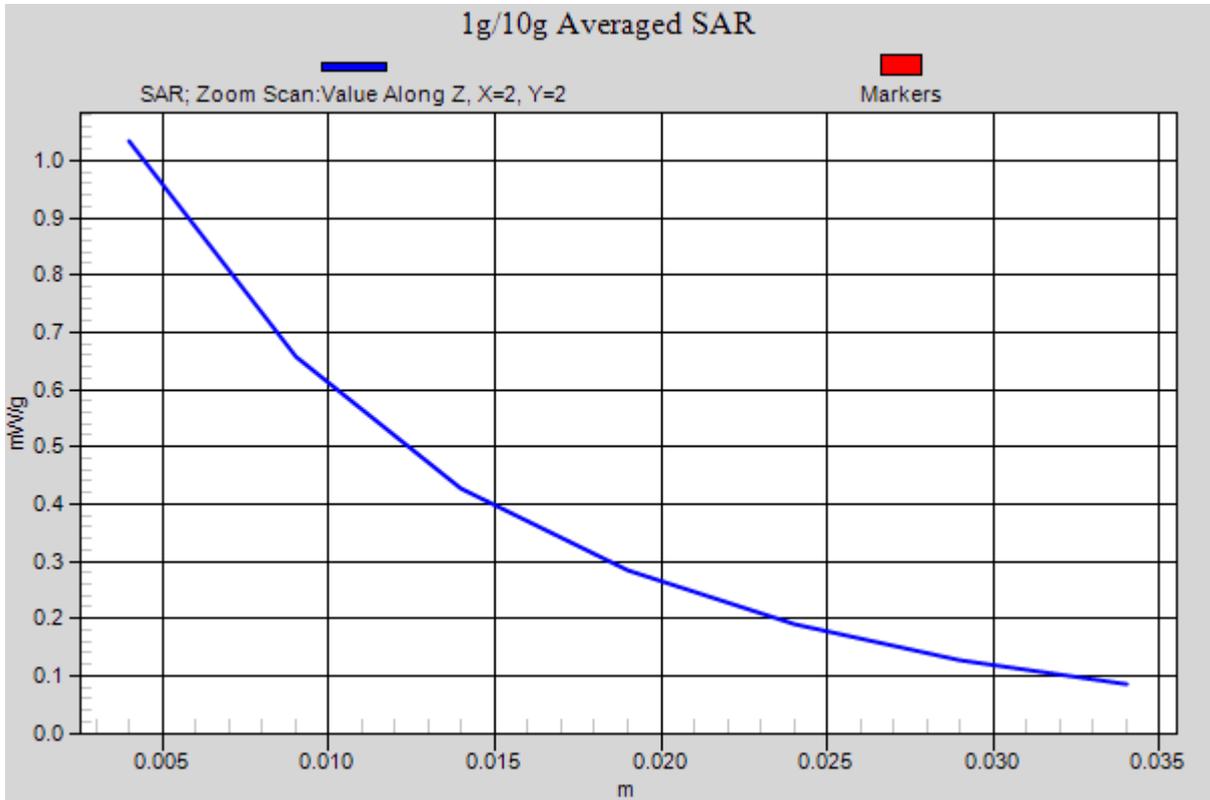


Figure 165 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20350

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LTE Band 4 with 1 RB Right Cheek Middle (10MHz, SN: UWDC320XBGN01407, QPSK, Low end)

Date/Time: 10/13/2012 8:48:50 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.906 mW/g

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

Reference Value = 11.3 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.823 mW/g; SAR(10 g) = 0.515 mW/g

Maximum value of SAR (measured) = 0.901 mW/g

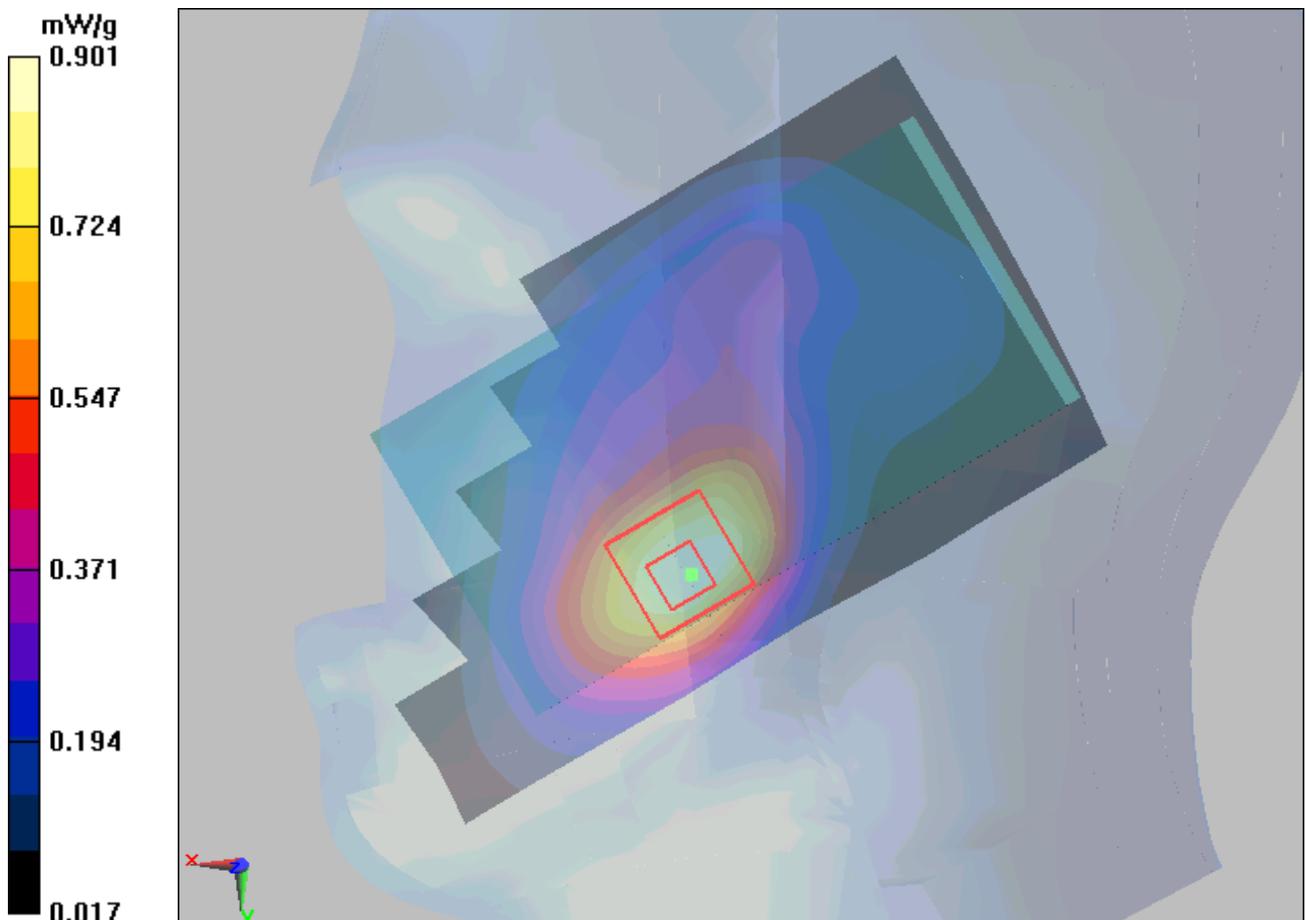


Figure 166 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20175

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LTE Band 4 with 1 RB Right Cheek Low (10MHz, SN: UWDC320XBGN01407, QPSK, Low end)

Date/Time: 10/13/2012 9:05:44 PM

Communication System: LTE; Frequency: 1715 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1715$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.835 mW/g

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

Reference Value = 9.92 V/m; Power Drift = 0.161 dB

Peak SAR (extrapolated) = 1.2 W/kg

SAR(1 g) = 0.769 mW/g; SAR(10 g) = 0.477 mW/g

Maximum value of SAR (measured) = 0.838 mW/g

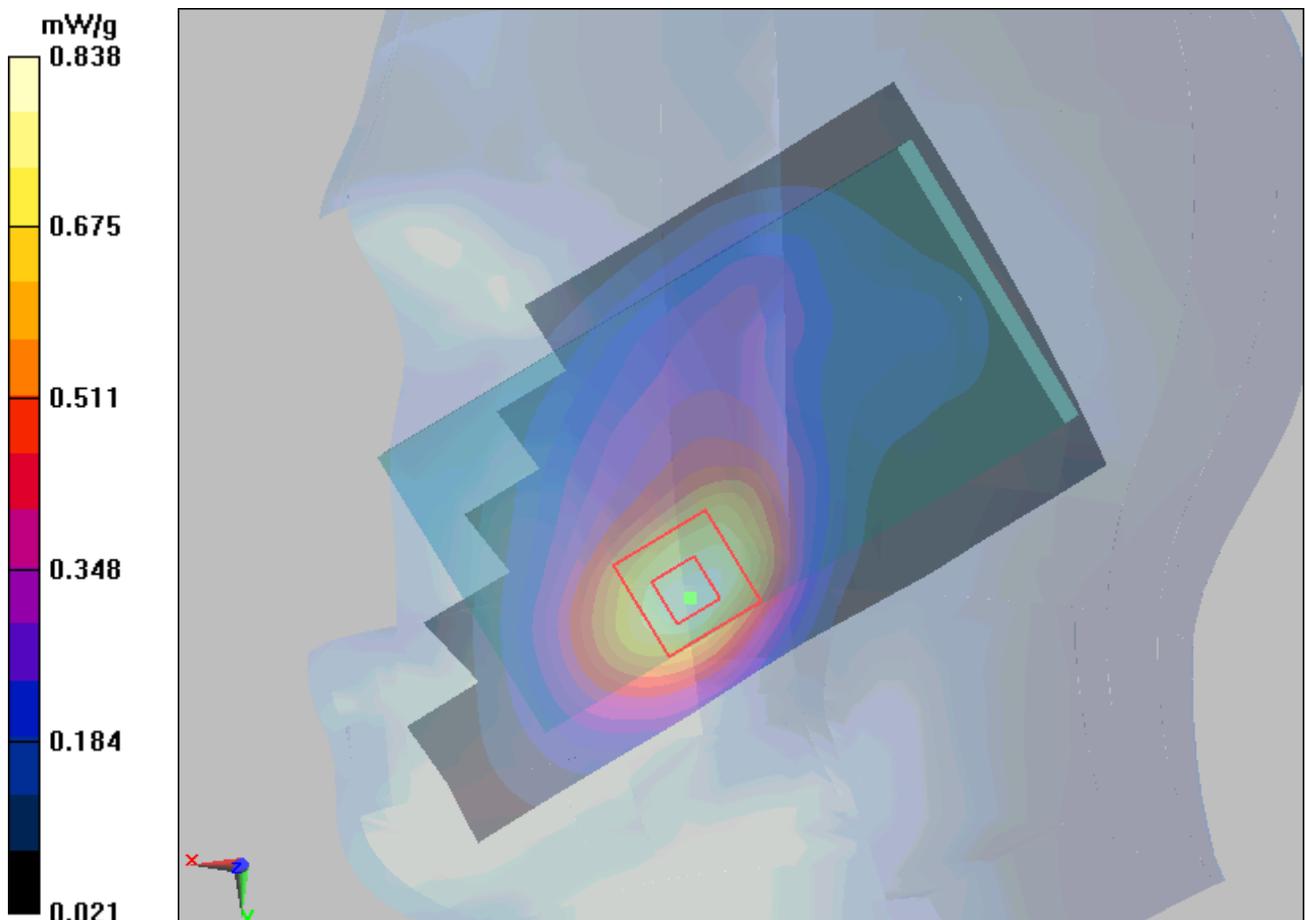


Figure 167 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20000

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LTE Band 4 with 1 RB Right Cheek High (10MHz, SN: UWDC320XBGN01407, QPSK, High end)

Date/Time: 10/13/2012 9:20:24 PM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.04 mW/g

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

Reference Value = 11.6 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.573 mW/g

Maximum value of SAR (measured) = 0.986 mW/g

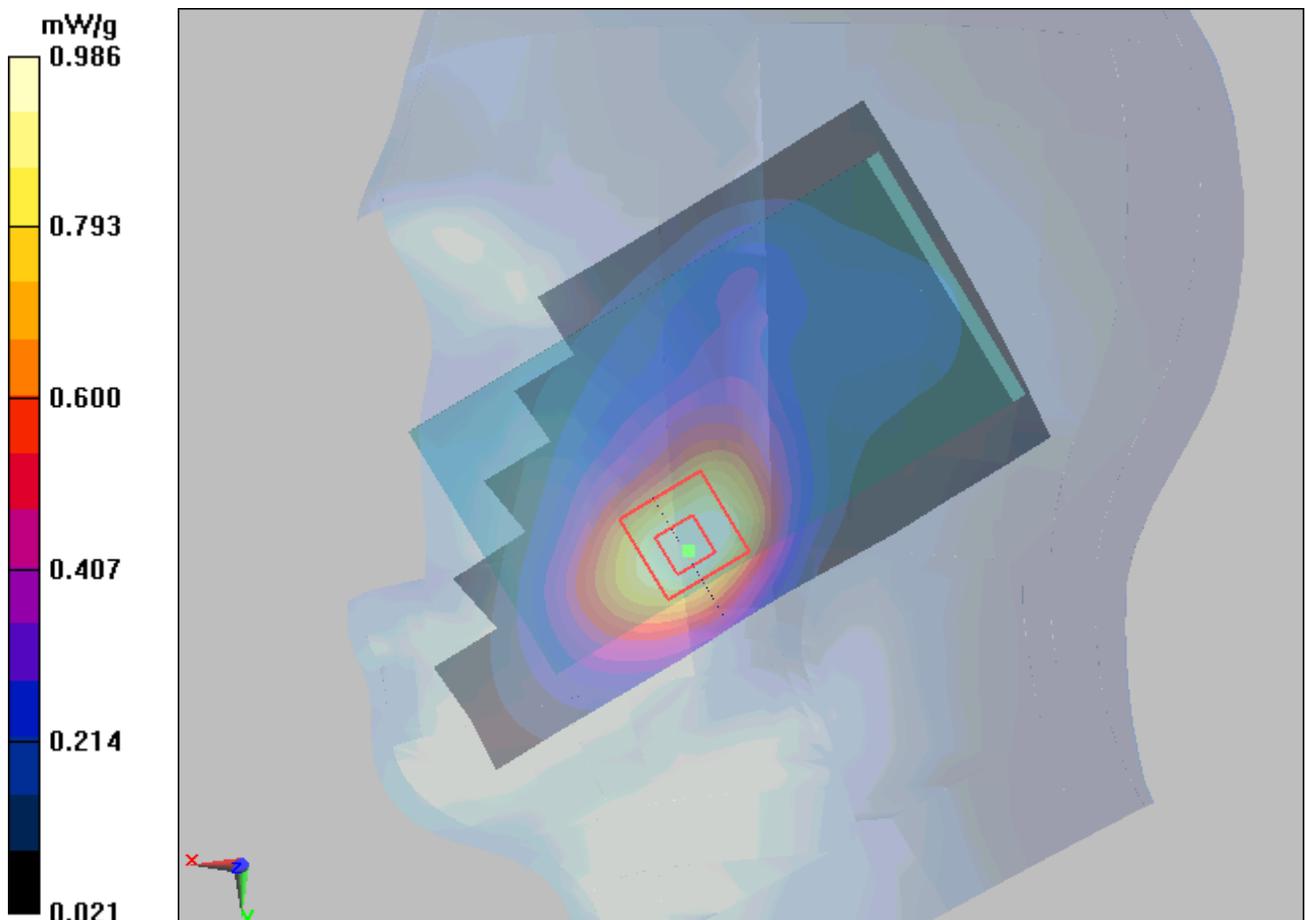


Figure 168 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20350

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LTE Band 4 with 1 RB Right Cheek Middle (10MHz, SN: UWDC320XBGN01407, QPSK, High end)

Date/Time: 10/13/2012 9:35:52 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 12.1 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.933 mW/g; SAR(10 g) = 0.581 mW/g

Maximum value of SAR (measured) = 0.989 mW/g

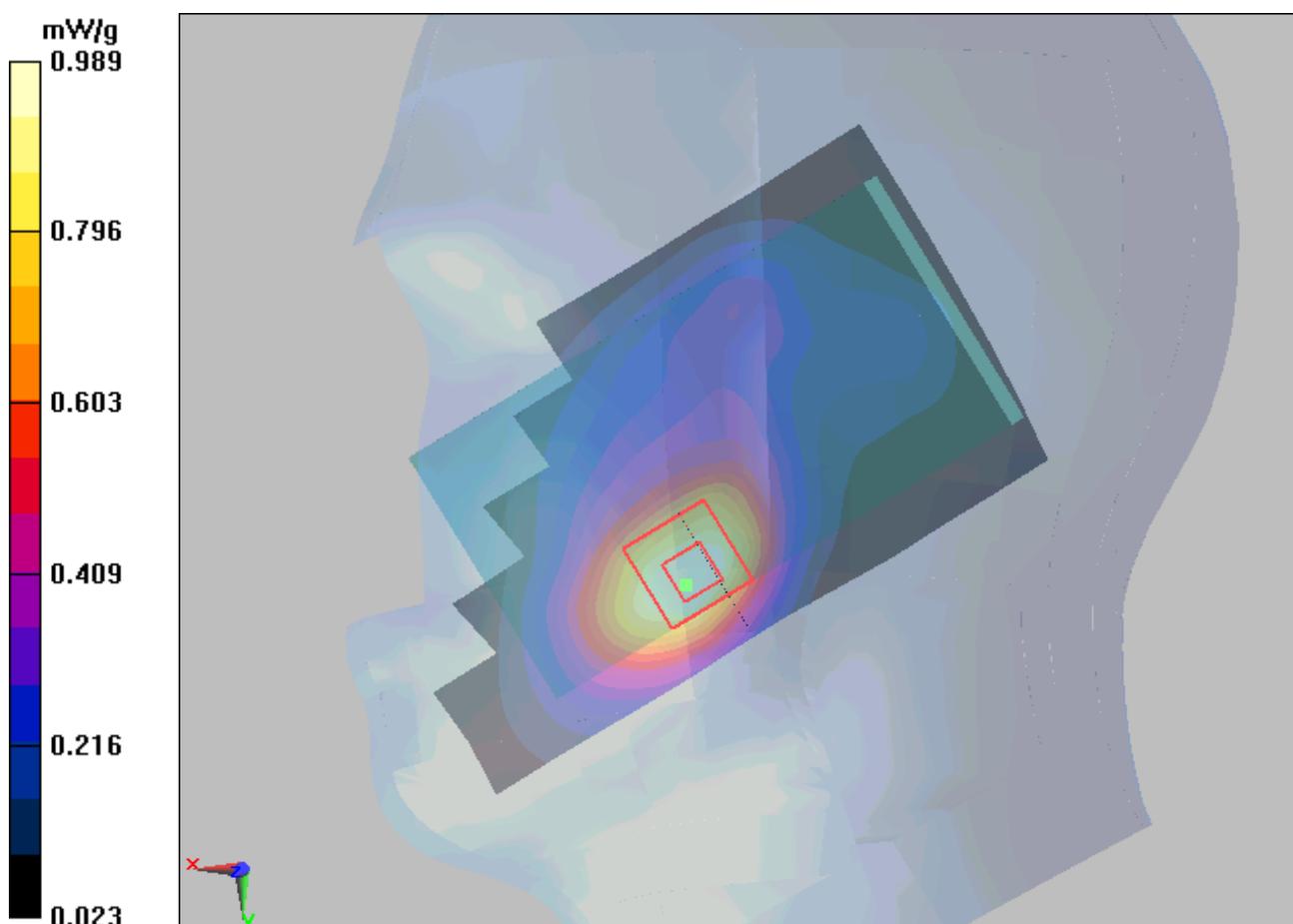


Figure 169 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20175

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LTE Band 4 with 1 RB Right Cheek Low (10MHz, SN: UWDC320XBGN01407, QPSK, High end)

Date/Time: 10/13/2012 9:50:40 PM

Communication System: LTE; Frequency: 1715 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1715$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.790 mW/g

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

Reference Value = 9.83 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.438 mW/g

Maximum value of SAR (measured) = 0.737 mW/g

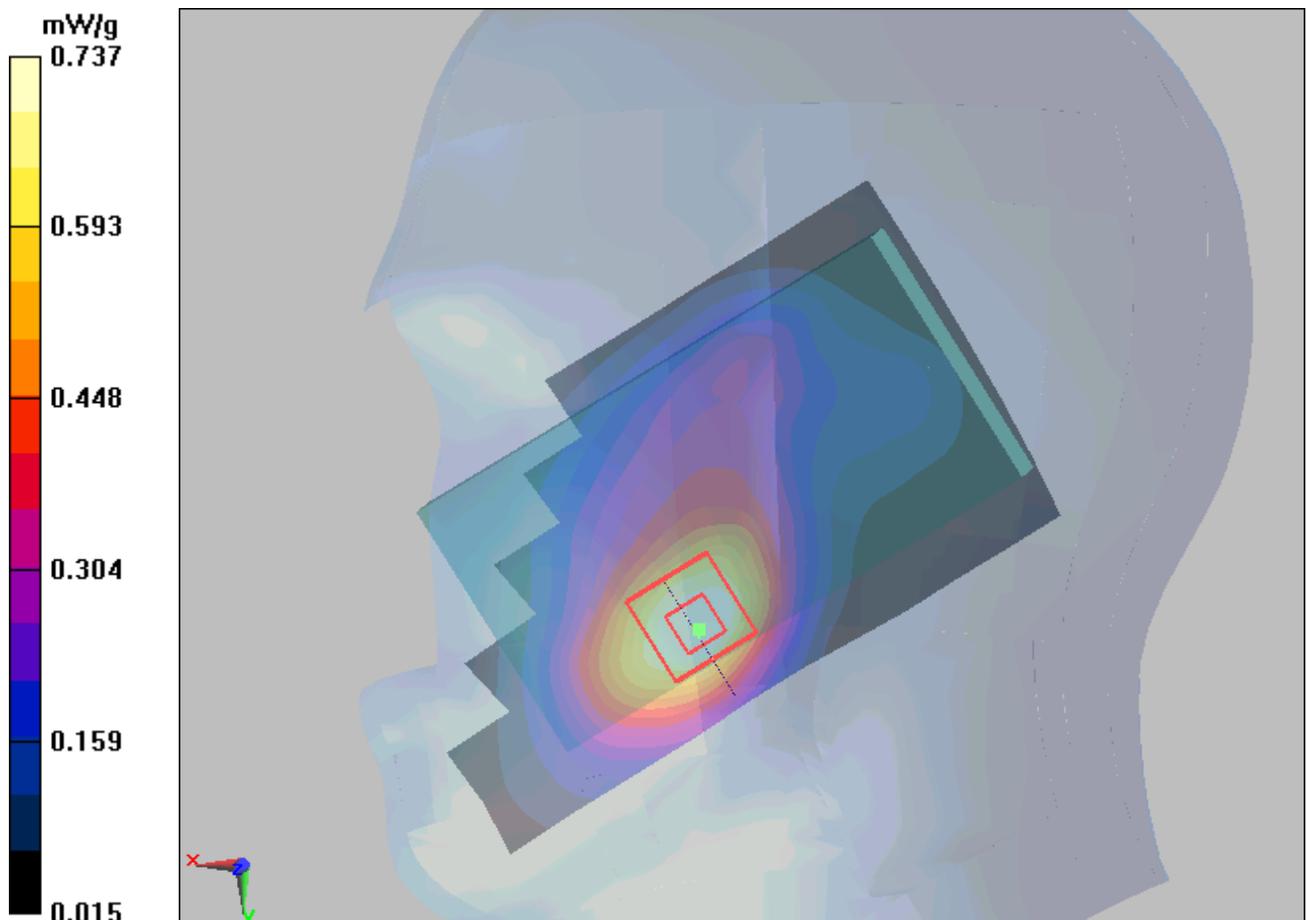


Figure 170 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20000

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LTE Band 4 with 50% RB Right Cheek High (10MHz, SN: UWDC320XBGN01407, 16QAM)

Date/Time: 10/13/2012 10:07:57 PM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.670 mW/g

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

Reference Value = 9.65 V/m; Power Drift = -0.00431 dB

Peak SAR (extrapolated) = 0.954 W/kg

SAR(1 g) = 0.610 mW/g; SAR(10 g) = 0.377 mW/g

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

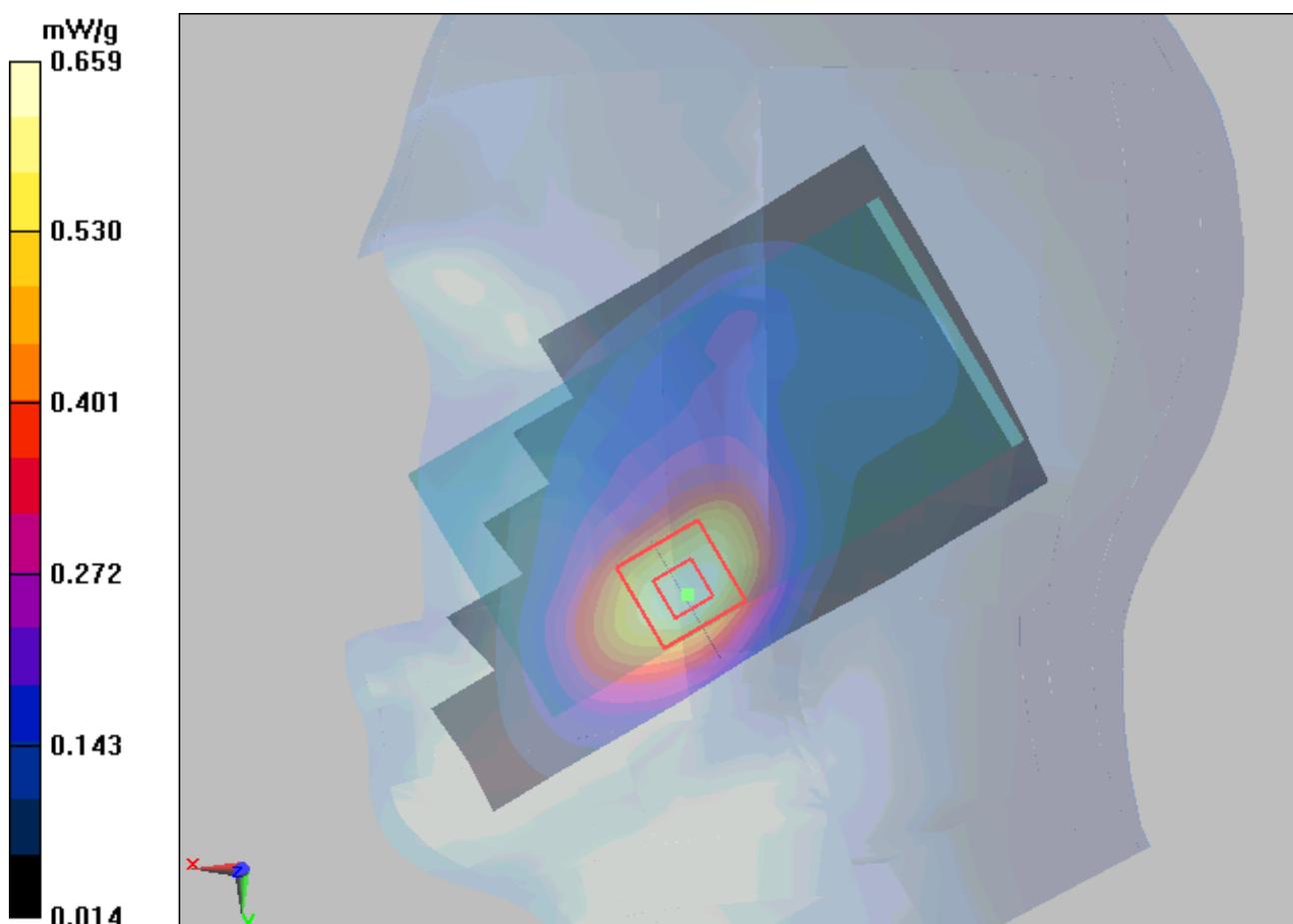


Figure 171 LTE Band 4 with 50% RB Right Hand Touch Cheek Channel 20350

TA Technology (Shanghai) Co., Ltd.
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LTE Band 4 with 1 RB Right Cheek High (10MHz, SN: UWDC320XBGN01407, 16QAM, Low end)

Date/Time: 10/13/2012 10:22:17 PM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.786 mW/g

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

Reference Value = 11.1 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.707 mW/g; SAR(10 g) = 0.440 mW/g

Maximum value of SAR (measured) = 0.760 mW/g

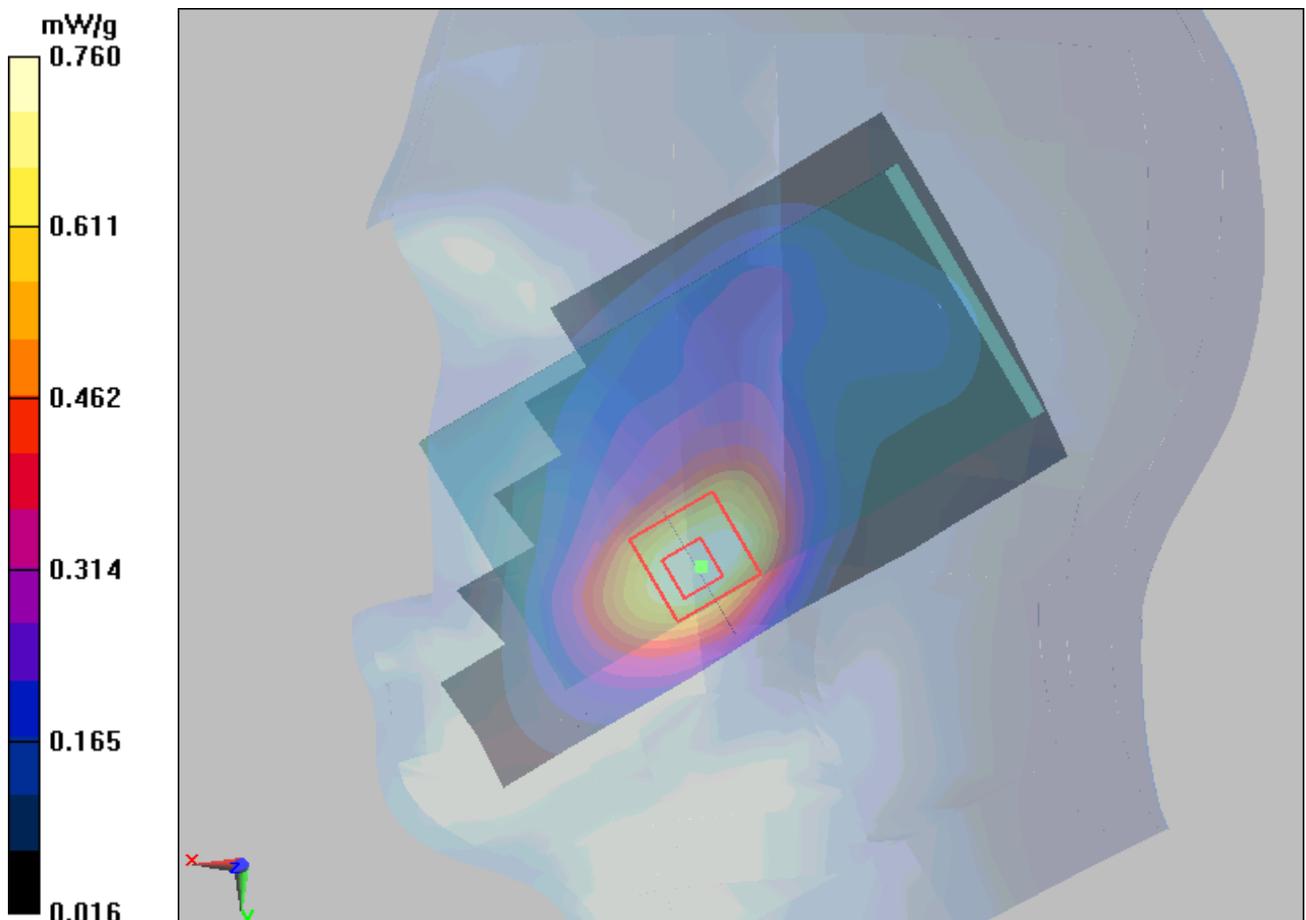


Figure 172 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20350

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LTE Band 4 with 1 RB Right Cheek High (10MHz, SN: UWDC320XBGN01407, 16QAM, High end)

Date/Time: 10/13/2012 10:37:24 PM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.696 mW/g

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

Reference Value = 9.46 V/m; Power Drift = 0.100 dB

Peak SAR (extrapolated) = 0.978 W/kg

SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.392 mW/g

Maximum value of SAR (measured) = 0.672 mW/g

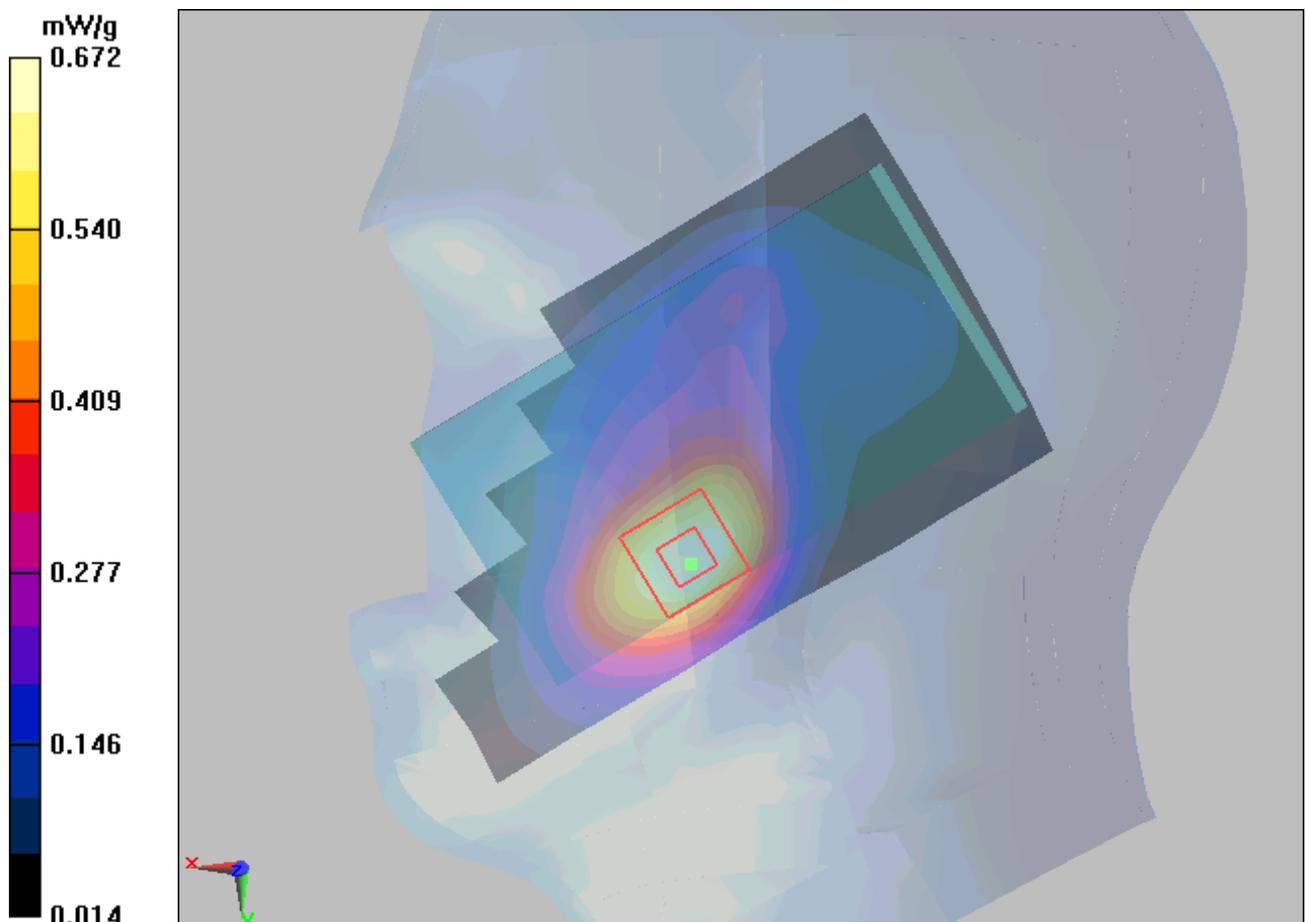


Figure 173 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20350

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 4 with 50% RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 9:20:24 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.697 mW/g

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

Reference Value = 9.12 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 0.962 W/kg

SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.372 mW/g

Maximum value of SAR (measured) = 0.650 mW/g

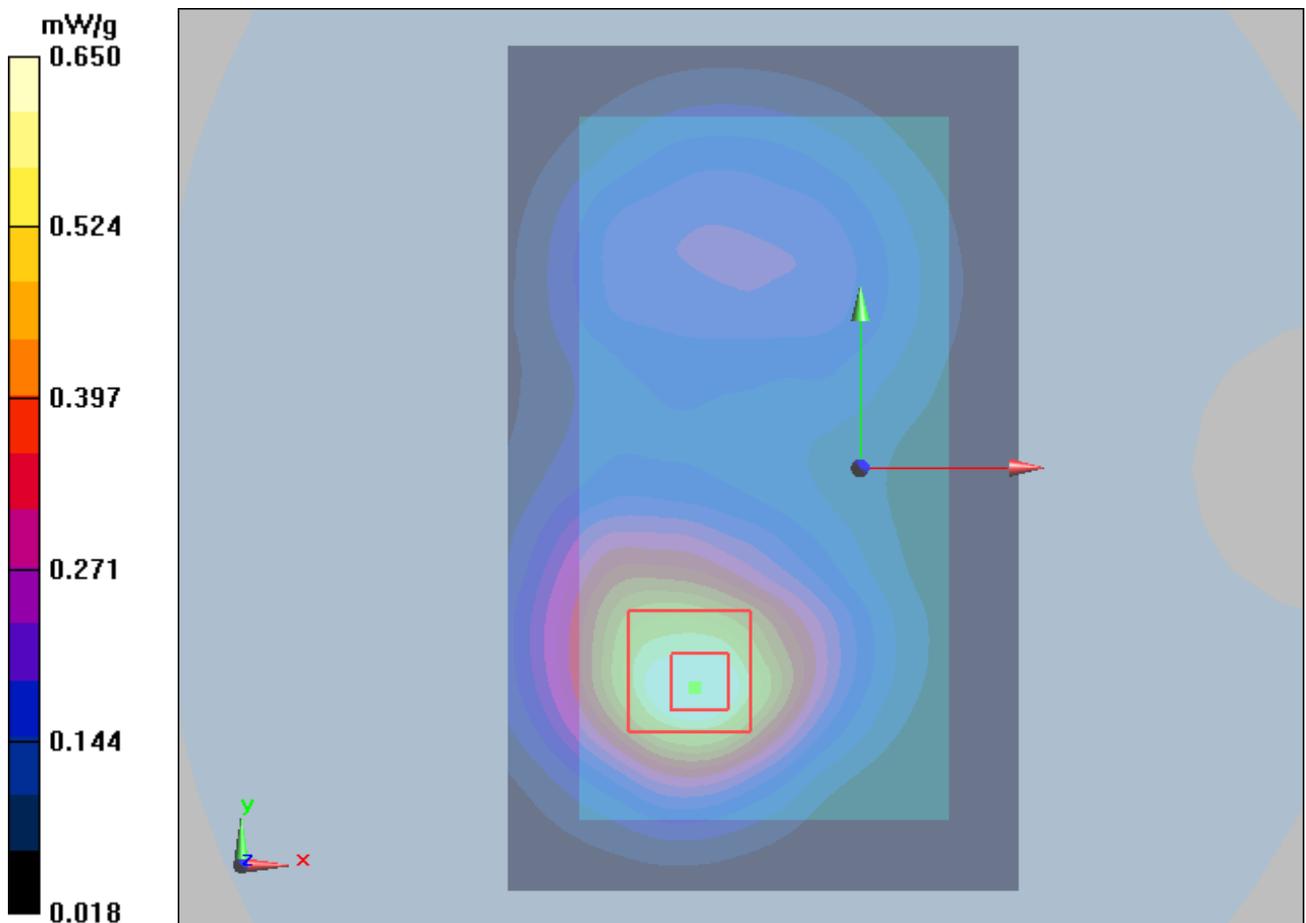


Figure 174 Body, LTE Band 4 with 50% RB Back Side Channel 20175

TA Technology (Shanghai) Co., Ltd.
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LTE Band 4 with 50% RB Front Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 1:16:49 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.492 mW/g

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

Reference Value = 8.49 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.706 W/kg

SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.286 mW/g

Maximum value of SAR (measured) = 0.479 mW/g

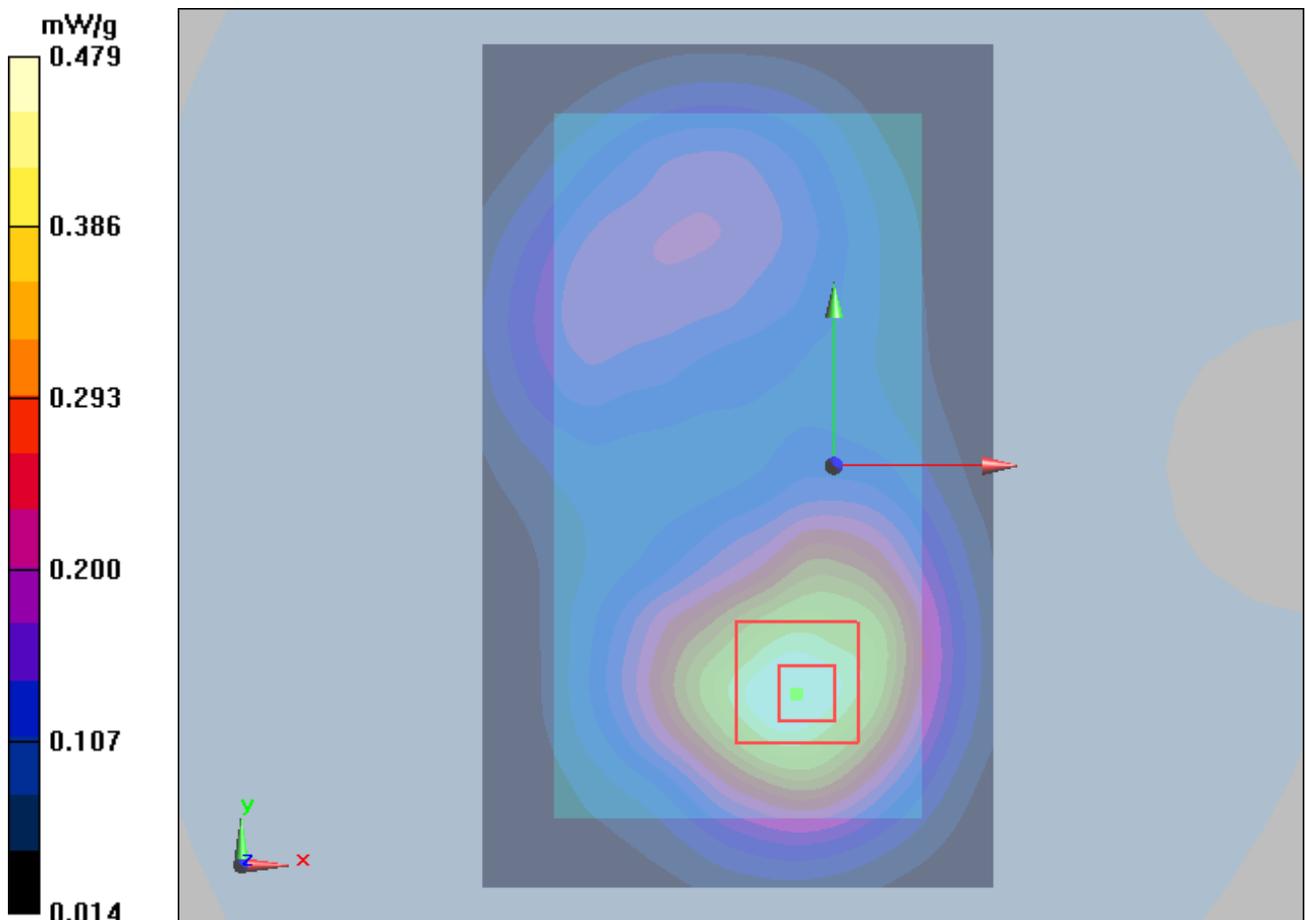


Figure 175 Body, LTE Band 4 with 50% RB Front Side Channel 20175

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LTE Band 4 with 50% RB Right Edge Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 1:33:39 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Edge Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.358 mW/g

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

Reference Value = 11.3 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.497 W/kg

SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 0.338 mW/g

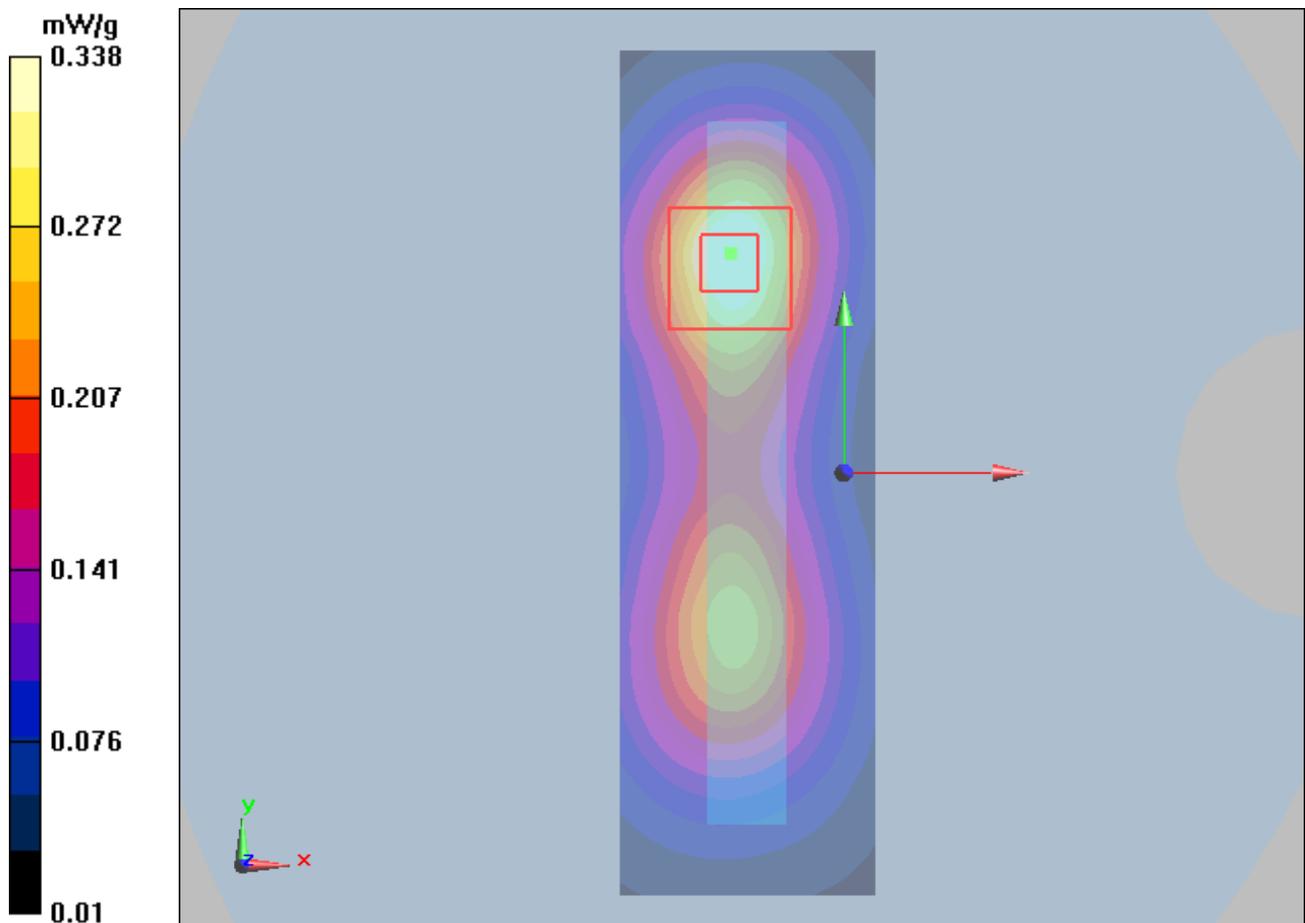


Figure 176 Body, LTE Band 4 with 50% RB Right Edge Channel 20175

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LTE Band 4 with 50% RB Bottom Edge Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 10/12/2012 1:51:16 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Edge Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.105 mW/g

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

Reference Value = 8.37 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.105 mW/g

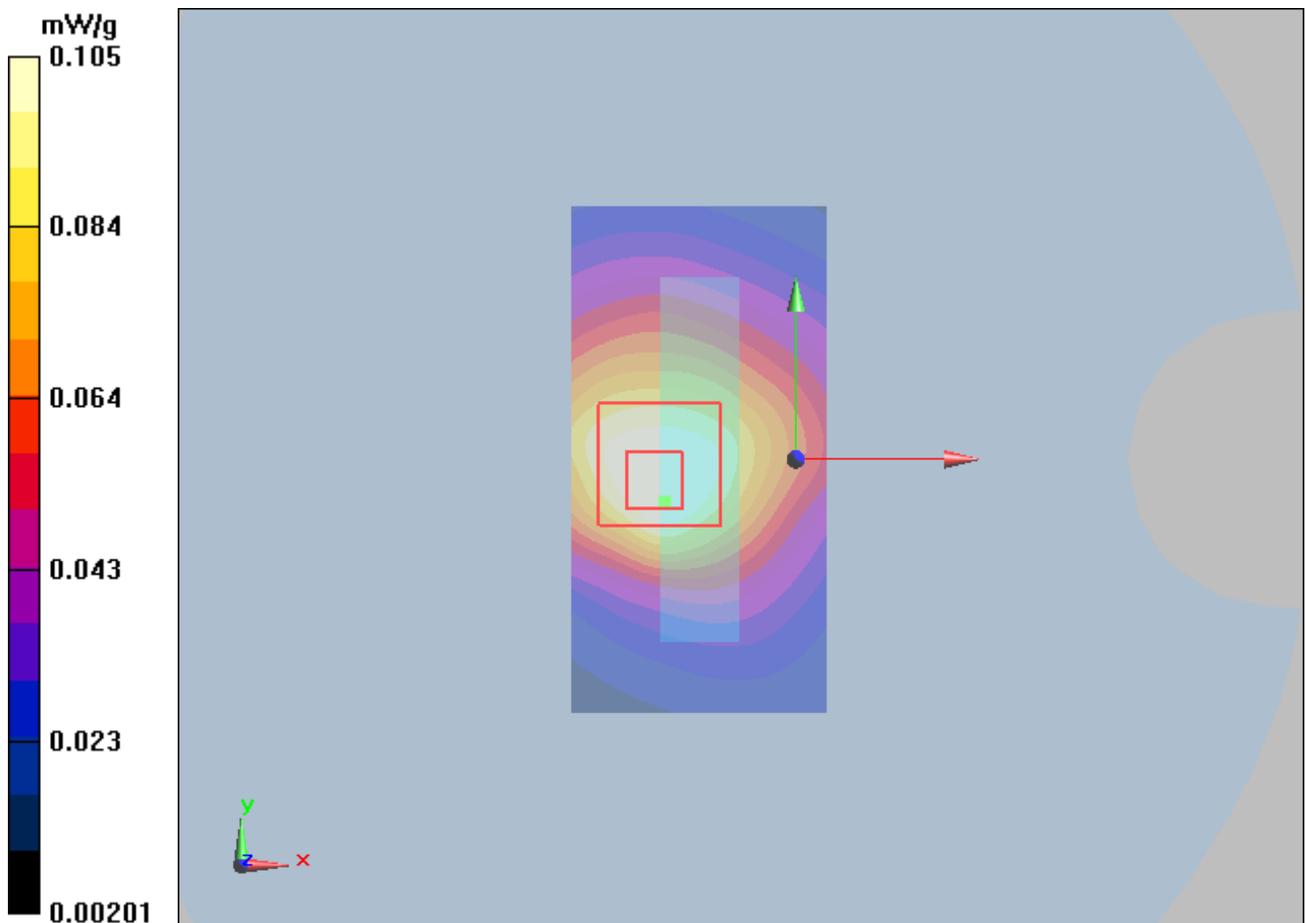


Figure 177 Body, LTE Band 4 with 50% RB Bottom Edge Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, QPSK, Low end)

Date/Time: 10/12/2012 2:10:24 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.693 mW/g

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

Reference Value = 9.22 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.933 W/kg

SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.372 mW/g

Maximum value of SAR (measured) = 0.647 mW/g

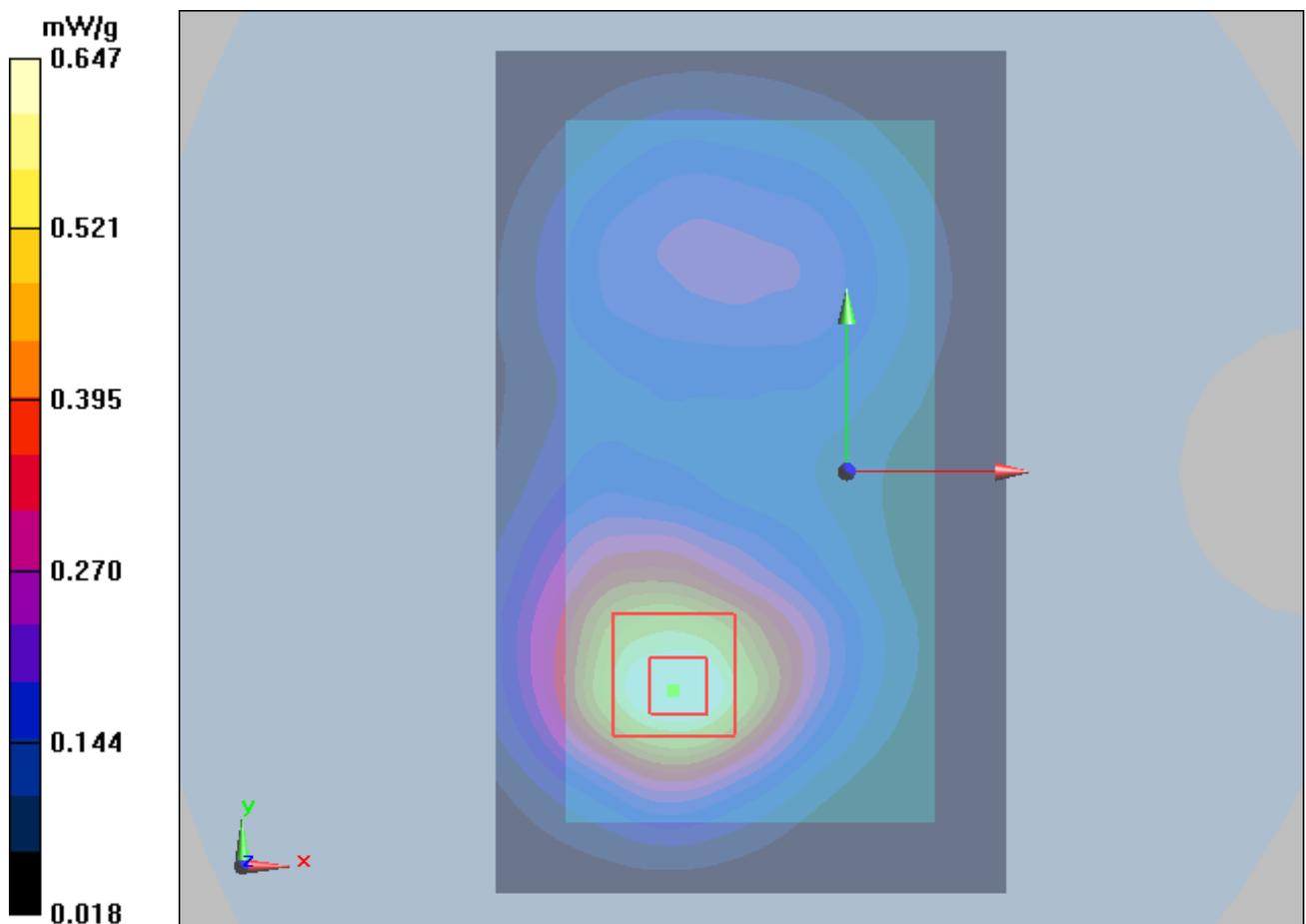


Figure 178 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, QPSK, High end)

Date/Time: 10/12/2012 2:28:39 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 8.97 V/m; Power Drift = 0.049 dB

Peak SAR (extrapolated) = 0.955 W/kg

SAR(1 g) = 0.625 mW/g; SAR(10 g) = 0.385 mW/g

Maximum value of SAR (measured) = 0.667 mW/g

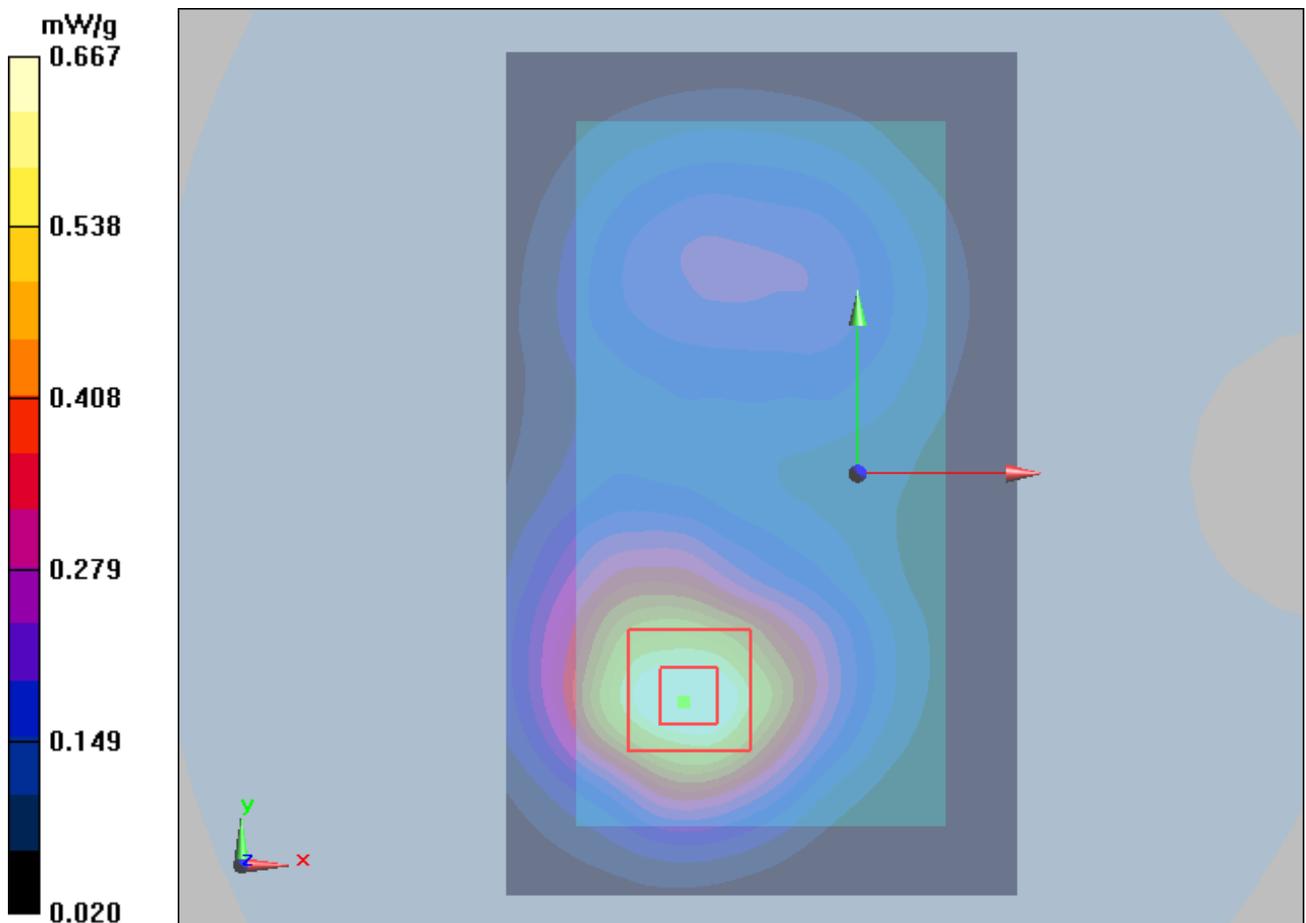


Figure 179 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM)

Date/Time: 10/12/2012 2:46:52 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.668 mW/g

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

Reference Value = 9.65 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 0.906 W/kg

SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.361 mW/g

Maximum value of SAR (measured) = 0.622 mW/g

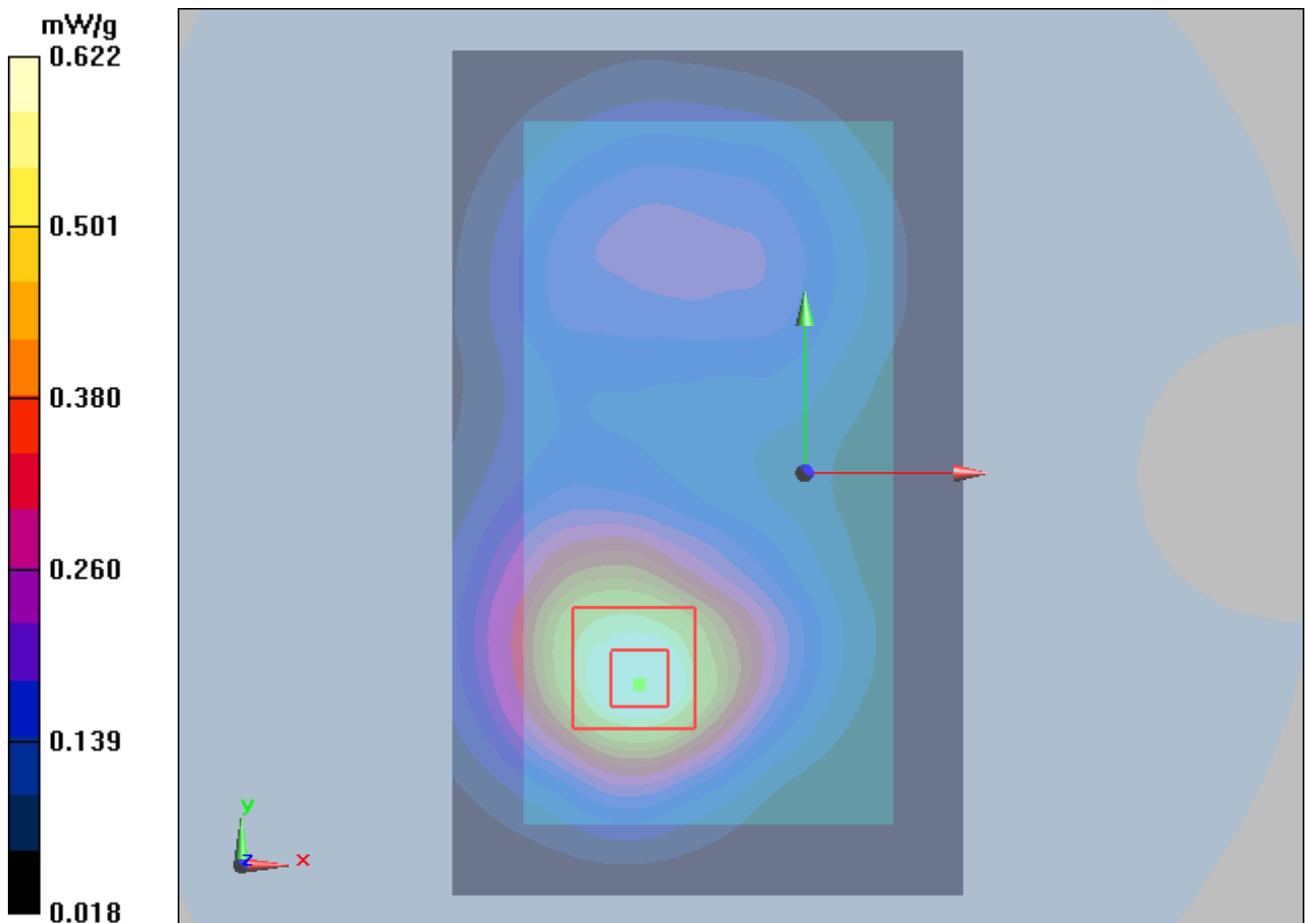


Figure 180 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, Low end)

Date/Time: 10/12/2012 3:05:45 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.693 mW/g

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

Reference Value = 9.13 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.970 W/kg

SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.384 mW/g

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

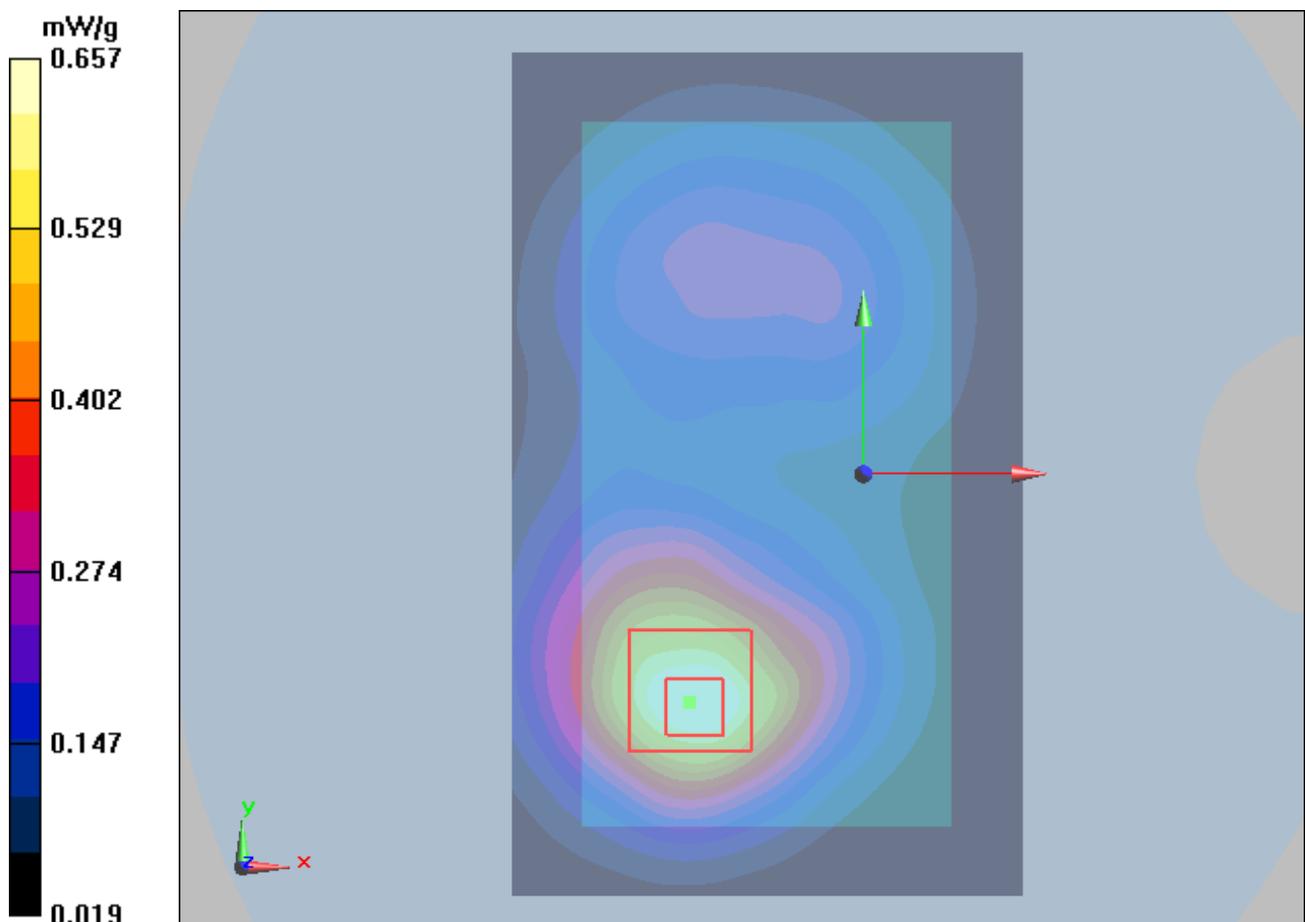


Figure 181 Body, LTE Band 4 with 1 RB Back Side Channel 20175

TA Technology (Shanghai) Co., Ltd.
Test Report

LTE Band 4 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, High end)

Date/Time: 10/12/2012 3:23:47 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.706 mW/g

Back Side Middle(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.19 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.658 mW/g; SAR(10 g) = 0.397 mW/g

Maximum value of SAR (measured) = 0.713 mW/g

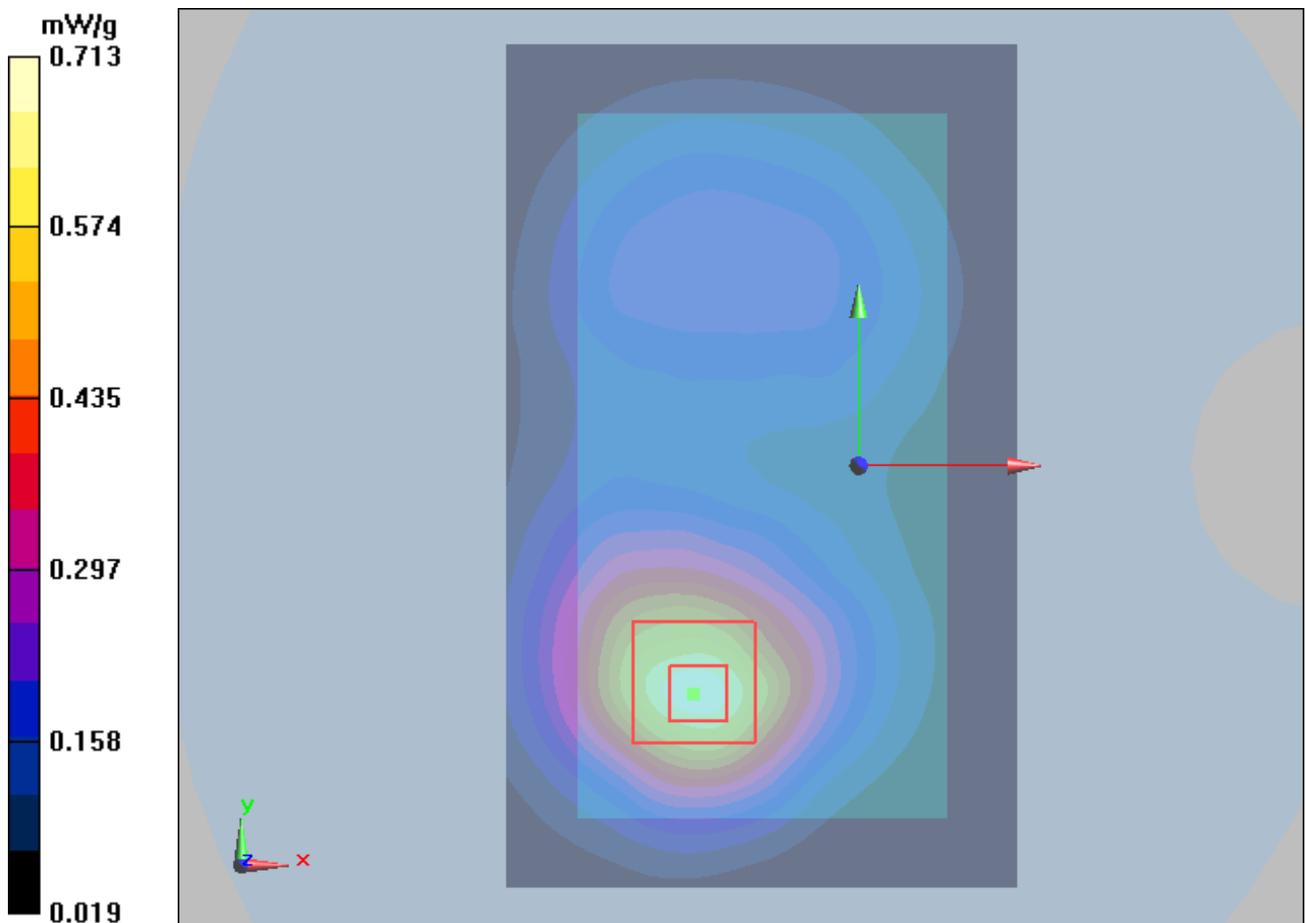


Figure 182 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/12/2012 4:00:44 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.635 mW/g

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

Reference Value = 9.75 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 0.908 W/kg

SAR(1 g) = 0.583 mW/g; SAR(10 g) = 0.366 mW/g

Maximum value of SAR (measured) = 0.626 mW/g

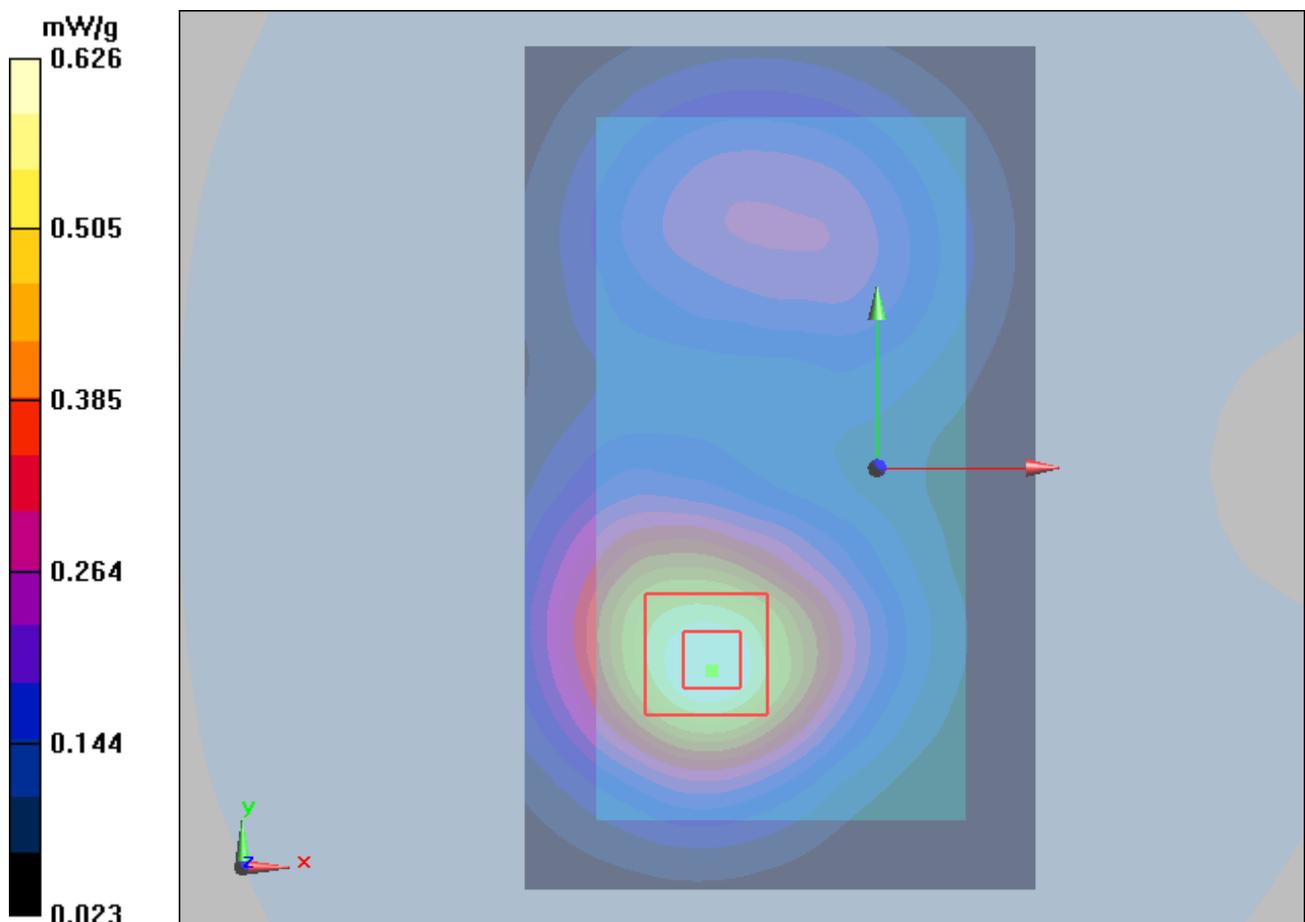


Figure 183 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 50% RB Front Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/12/2012 4:17:34 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.475 mW/g

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

Reference Value = 8.36 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.639 W/kg

SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.273 mW/g

Maximum value of SAR (measured) = 0.445 mW/g

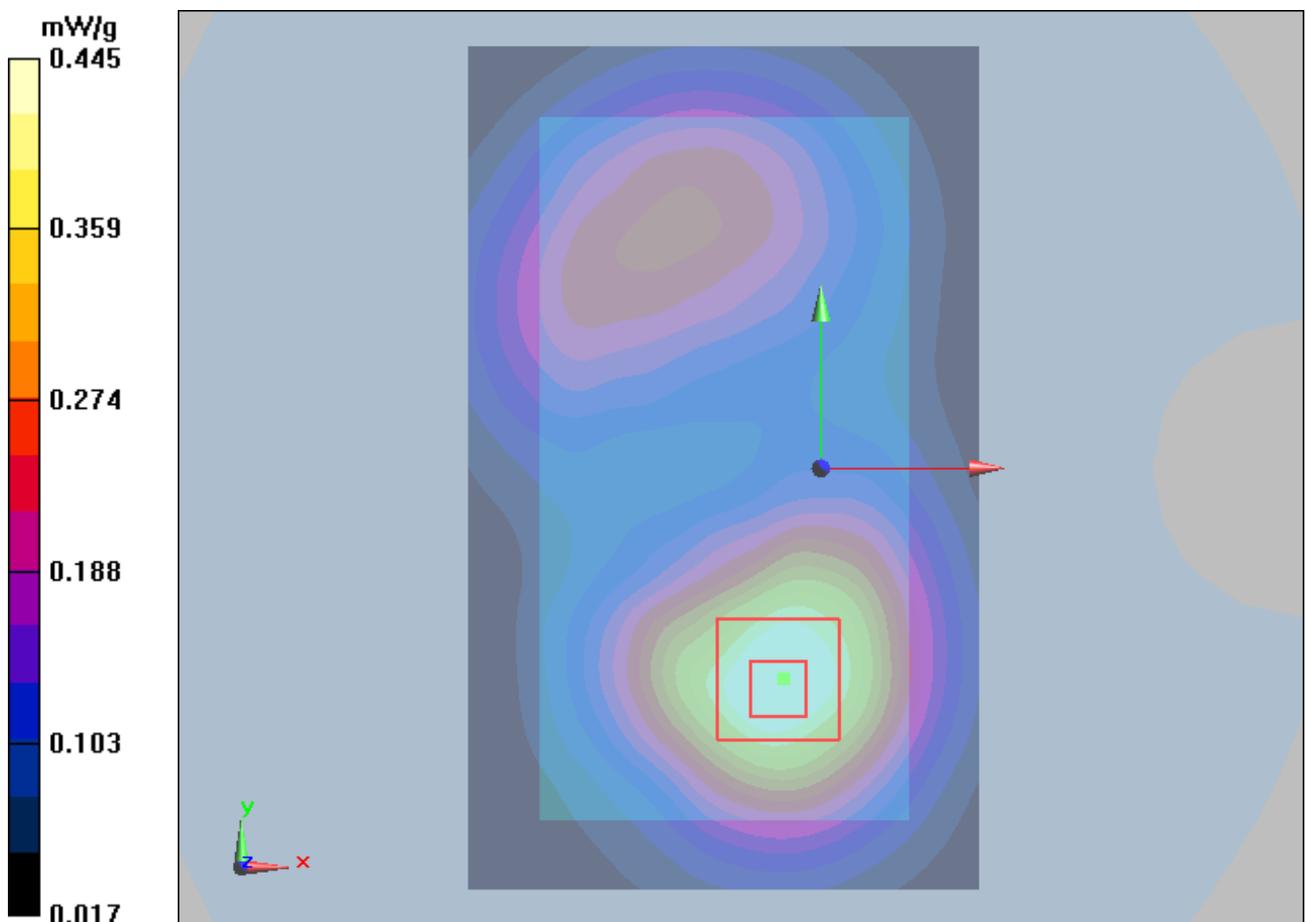


Figure 184 Body, LTE Band 4 with 50% RB Front Side Channel 20175

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LTE Band 4 with 50% RB and Earphone Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/12/2012 4:34:37 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 8.83 V/m; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 0.855 W/kg

SAR(1 g) = 0.559 mW/g; SAR(10 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.608 mW/g

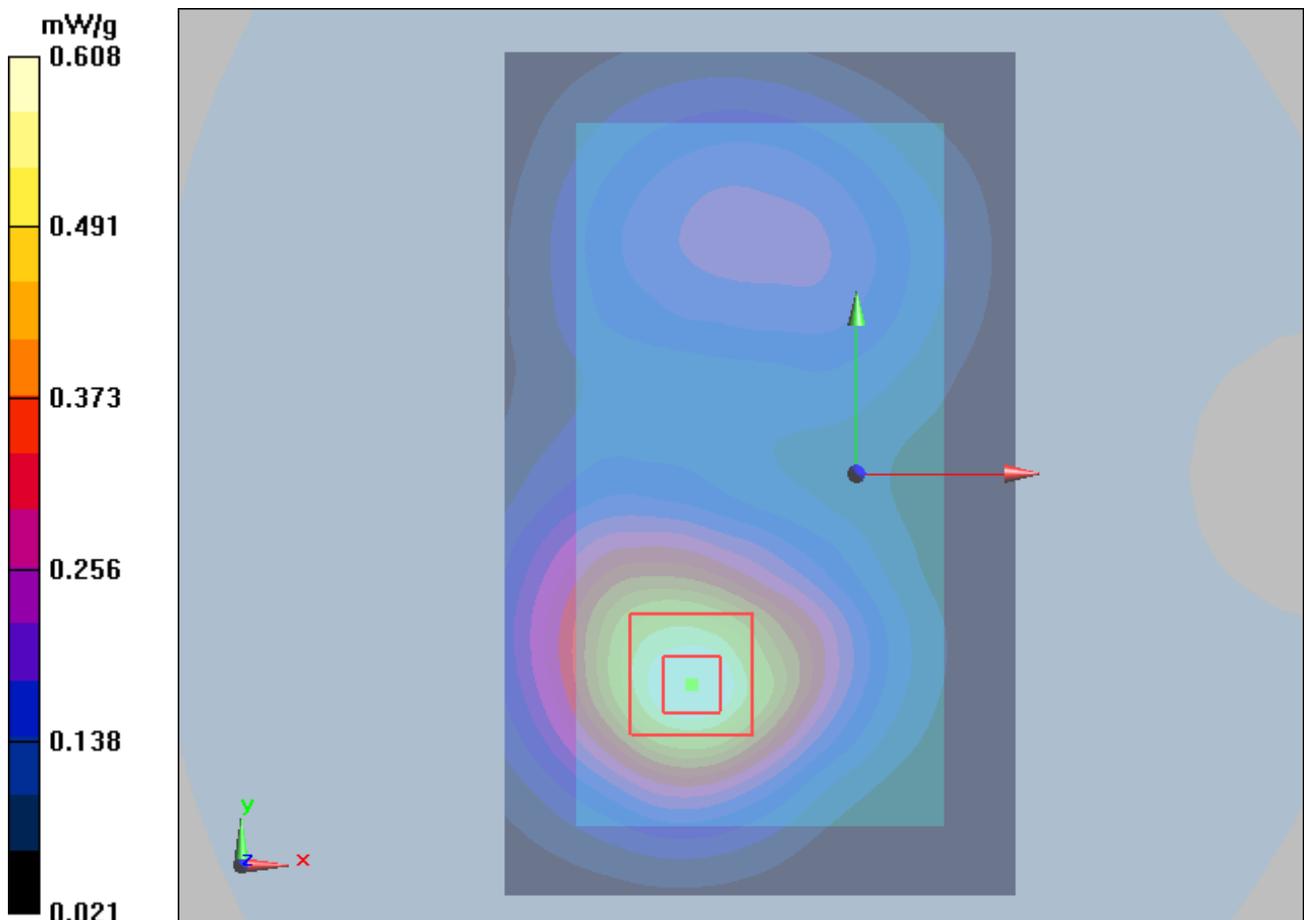


Figure 185 Body, LTE Band 4 with 50% RB and Earphone Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, QPSK, Low end)

Date/Time: 10/12/2012 4:53:22 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.821 mW/g

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

Reference Value = 9.96 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.727 mW/g; SAR(10 g) = 0.458 mW/g

Maximum value of SAR (measured) = 0.780 mW/g

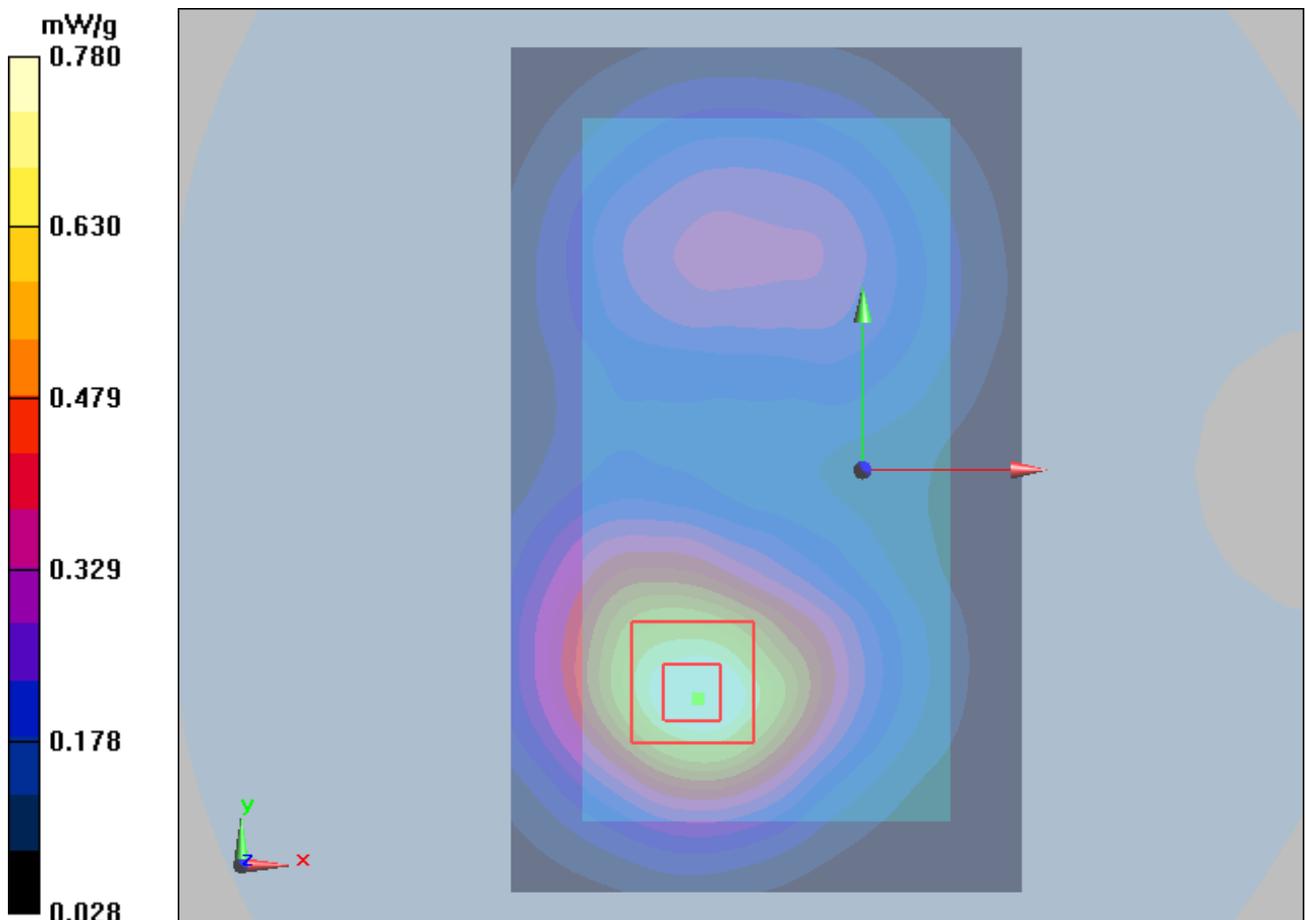


Figure 186 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, QPSK, High end)

Date/Time: 10/12/2012 5:10:46 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.806 mW/g

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

Reference Value = 10.1 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 1.1 W/kg

SAR(1 g) = 0.715 mW/g; SAR(10 g) = 0.452 mW/g

Maximum value of SAR (measured) = 0.768 mW/g

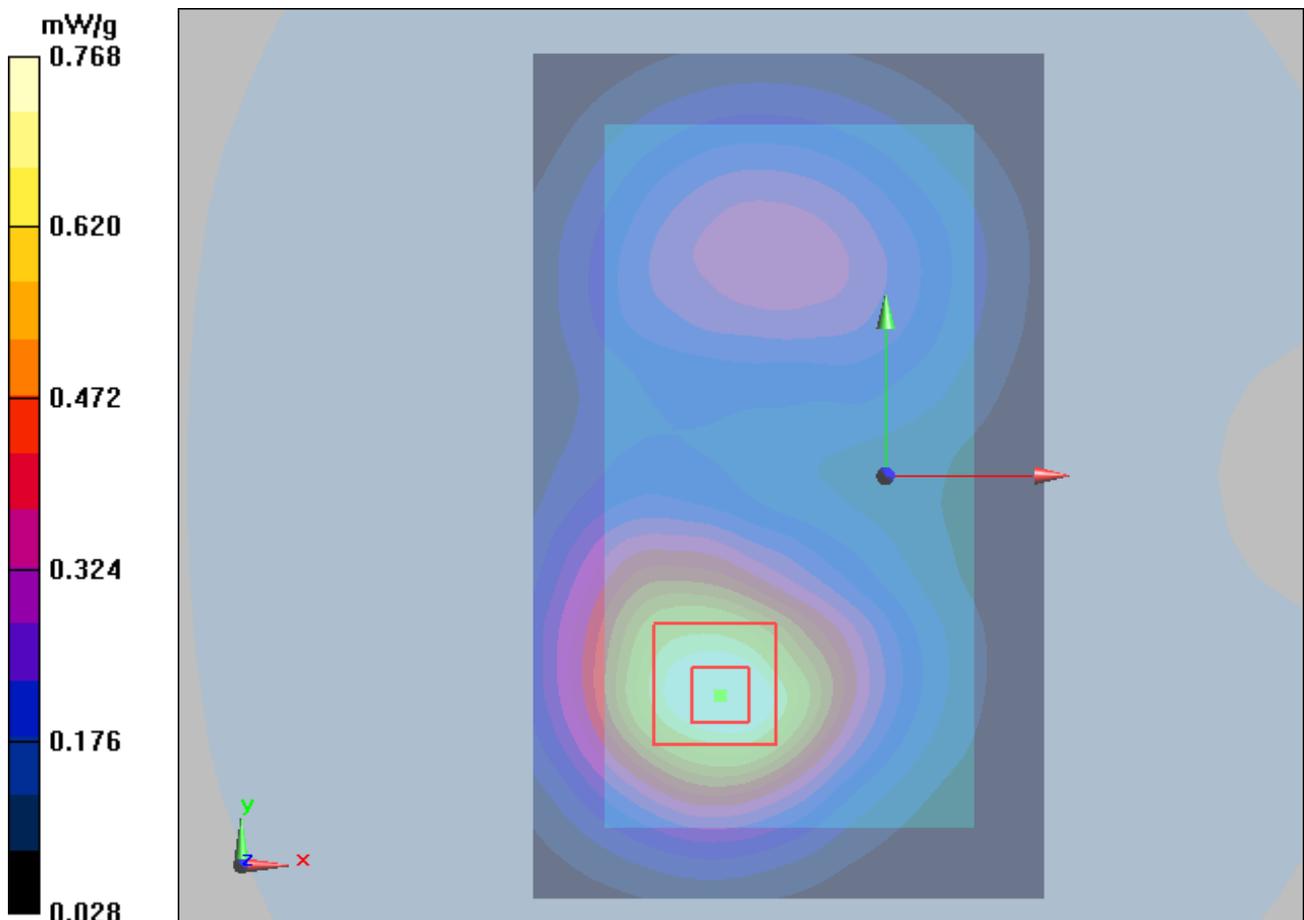


Figure 187 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM)

Date/Time: 10/12/2012 5:29:18 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.503 mW/g

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

Reference Value = 7.78 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.277 mW/g

Maximum value of SAR (measured) = 0.473 mW/g

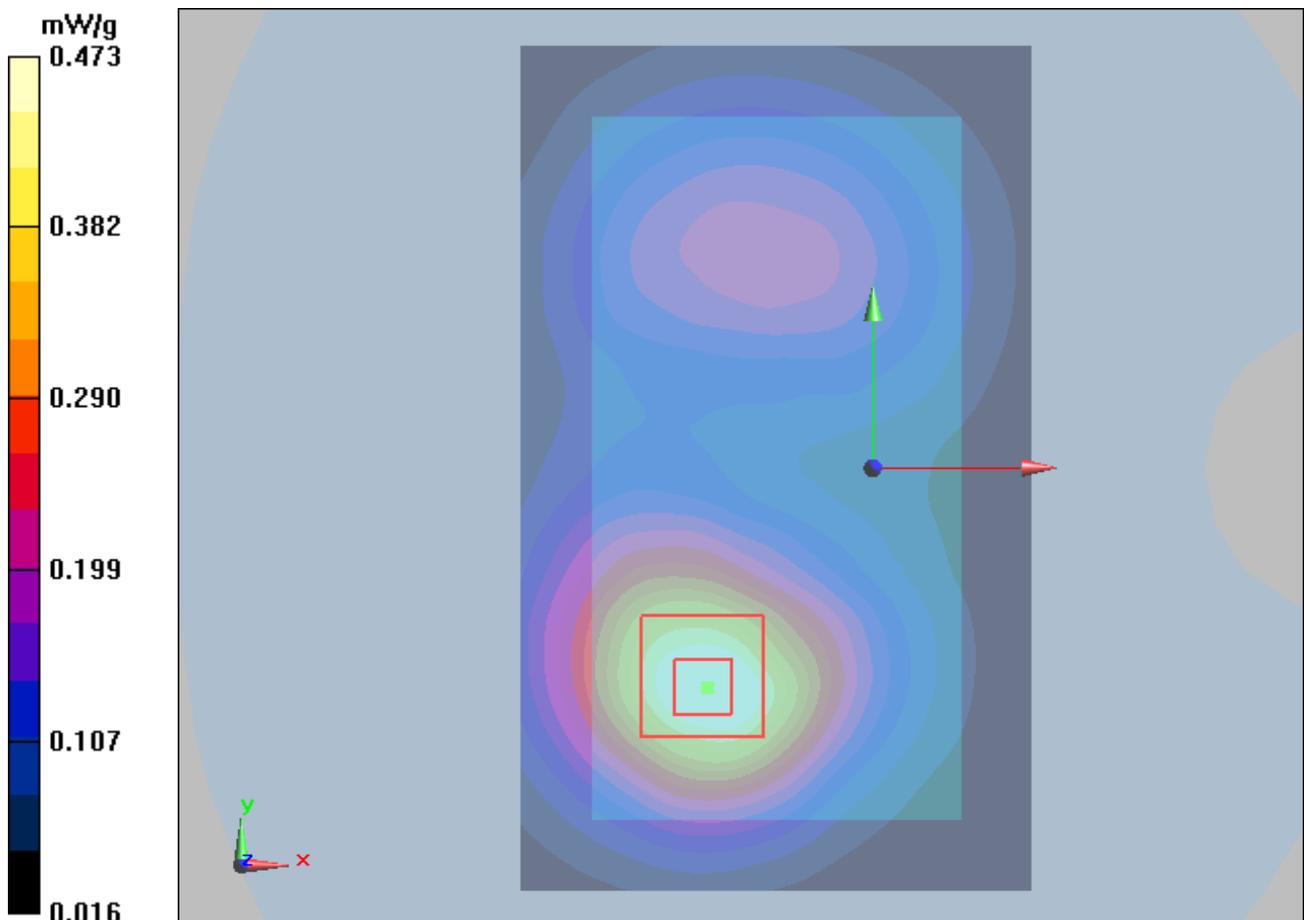


Figure 188 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM, Low end)

Date/Time: 10/12/2012 5:50:05 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.624 mW/g

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

Reference Value = 9.02 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.917 W/kg

SAR(1 g) = 0.576 mW/g; SAR(10 g) = 0.358 mW/g

Maximum value of SAR (measured) = 0.622 mW/g

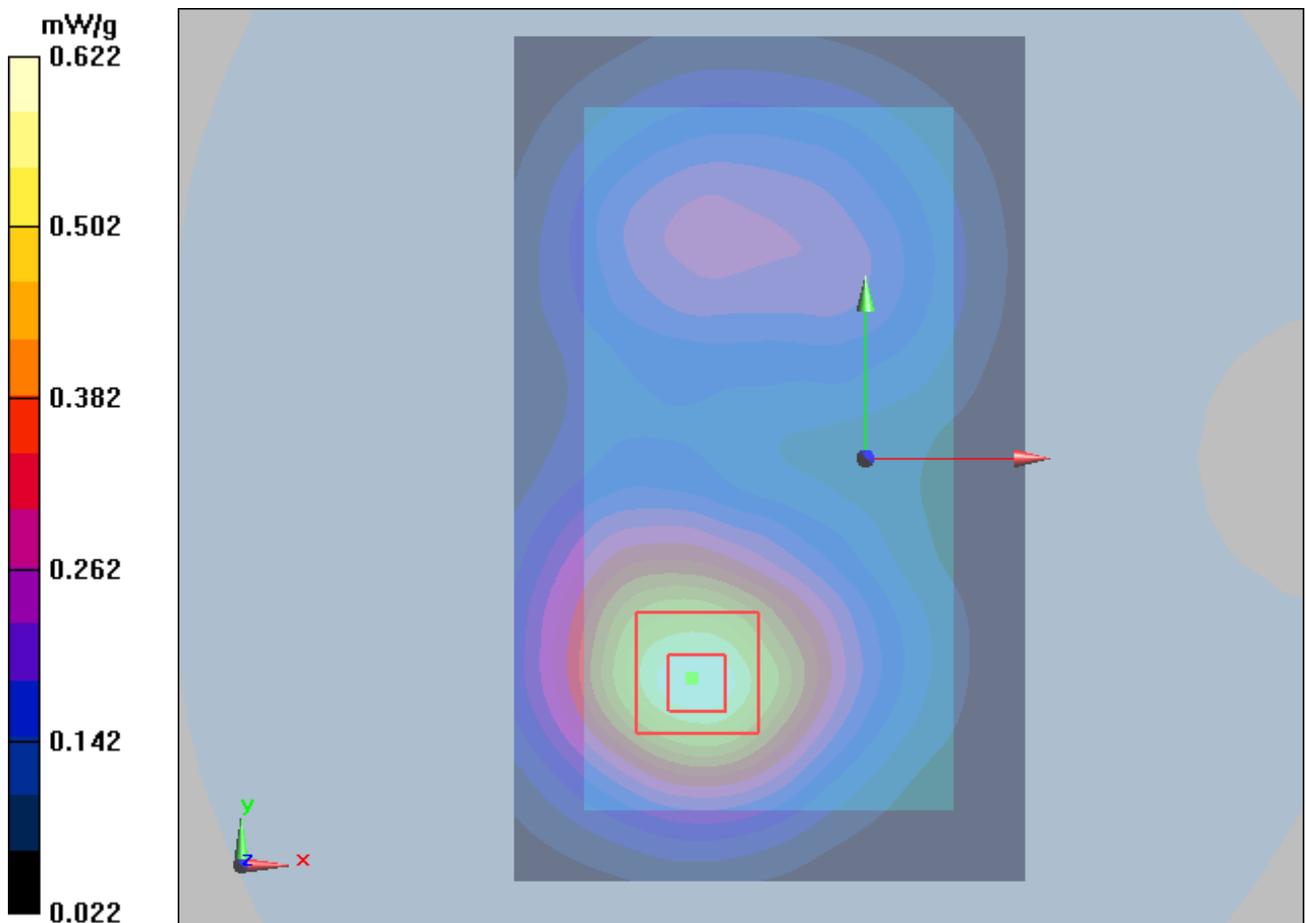


Figure 189 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM, High end)

Date/Time: 10/12/2012 6:08:07 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.631 mW/g

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

Reference Value = 8.61 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.924 W/kg

SAR(1 g) = 0.571 mW/g; SAR(10 g) = 0.359 mW/g

Maximum value of SAR (measured) = 0.602 mW/g

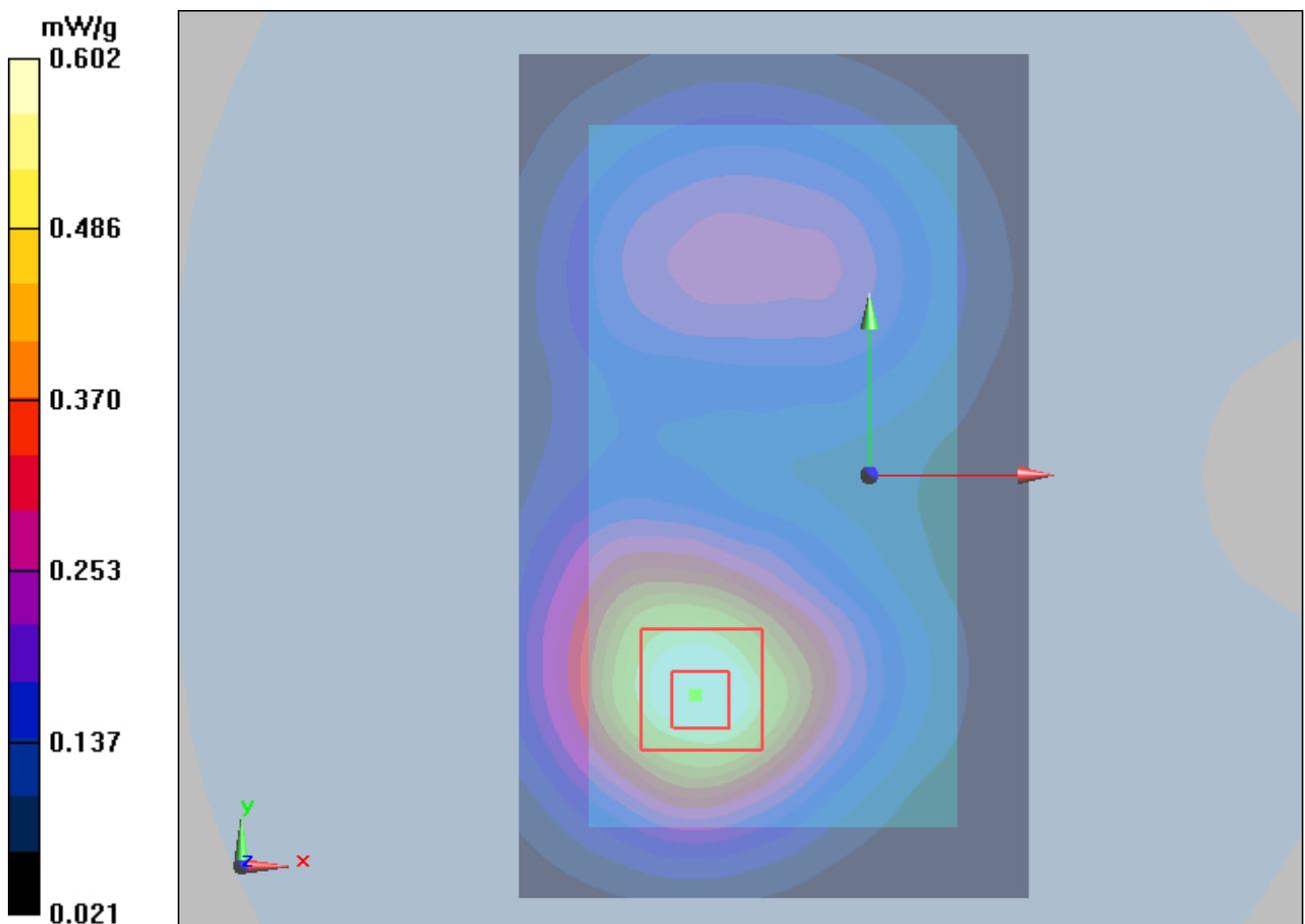


Figure 190 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side High (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 10:51:14 AM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side 10mm High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

Back Side 10mm High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.901 mW/g; SAR(10 g) = 0.549 mW/g

Maximum value of SAR (measured) = 0.972 mW/g

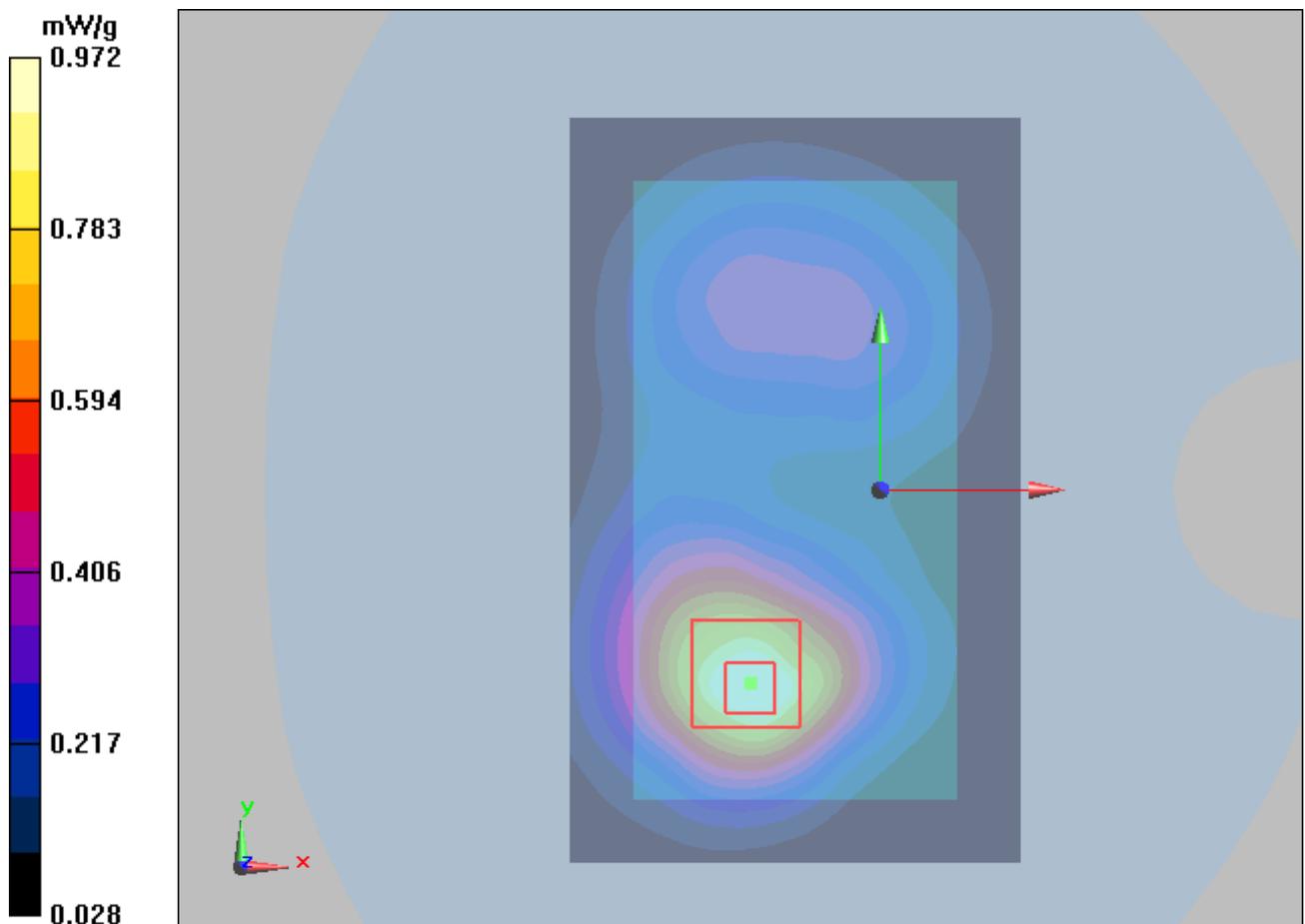


Figure 191 Body, LTE Band 4 with 50% RB Back Side Channel 20350

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LTE Band 4 with 50% RB Back Side Middle (10MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm)

Date/Time: 11/26/2012 10:32:26 AM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.1 mW/g

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

Reference Value = 10.6 V/m; Power Drift = 0.137 dB

Peak SAR (extrapolated) = 1.5 W/kg

SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.585 mW/g

Maximum value of SAR (measured) = 1.04 mW/g

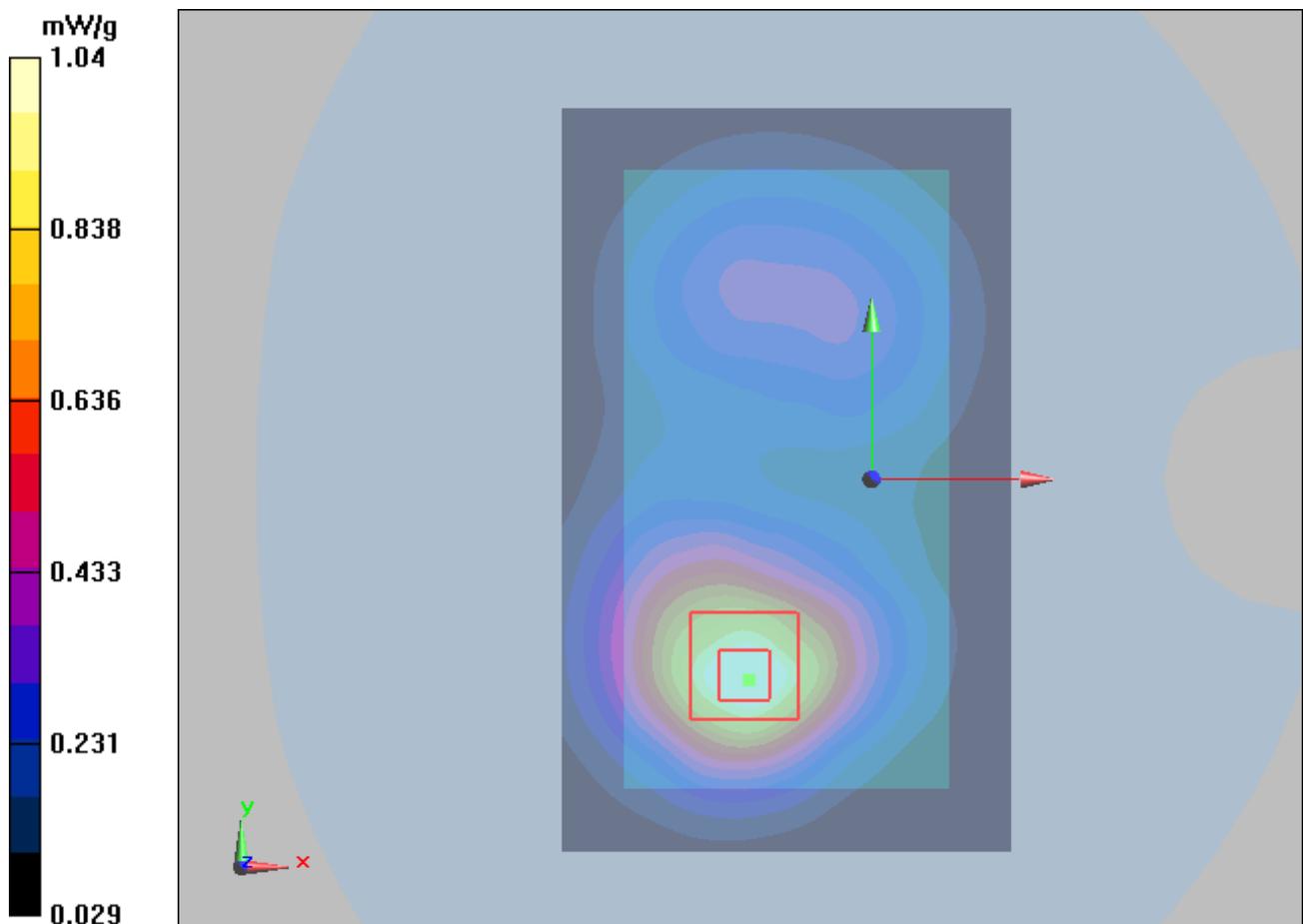


Figure 192 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side Low (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 11:12:42 AM

Communication System: LTE; Frequency: 1715 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1715$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.950 mW/g

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

Reference Value = 10.7 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 1.3 W/kg

SAR(1 g) = 0.830 mW/g; SAR(10 g) = 0.510 mW/g

Maximum value of SAR (measured) = 0.898 mW/g

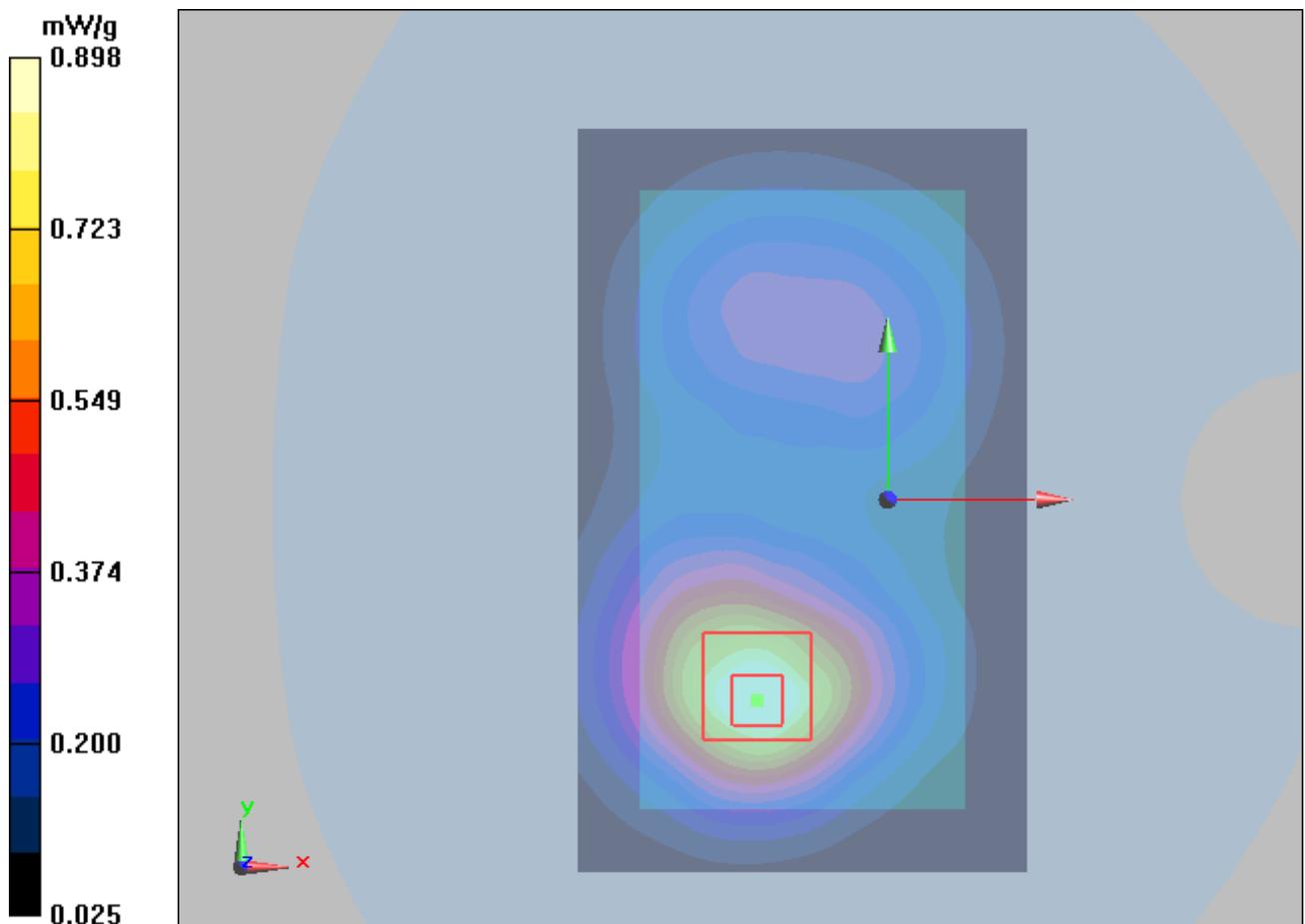


Figure 193 Body, LTE Band 4 with 50% RB Back Side Channel 20000

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LTE Band 4 with 50% RB Front Side Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 10:13:59 AM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 9.87 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.684 mW/g; SAR(10 g) = 0.435 mW/g

Maximum value of SAR (measured) = 0.720 mW/g

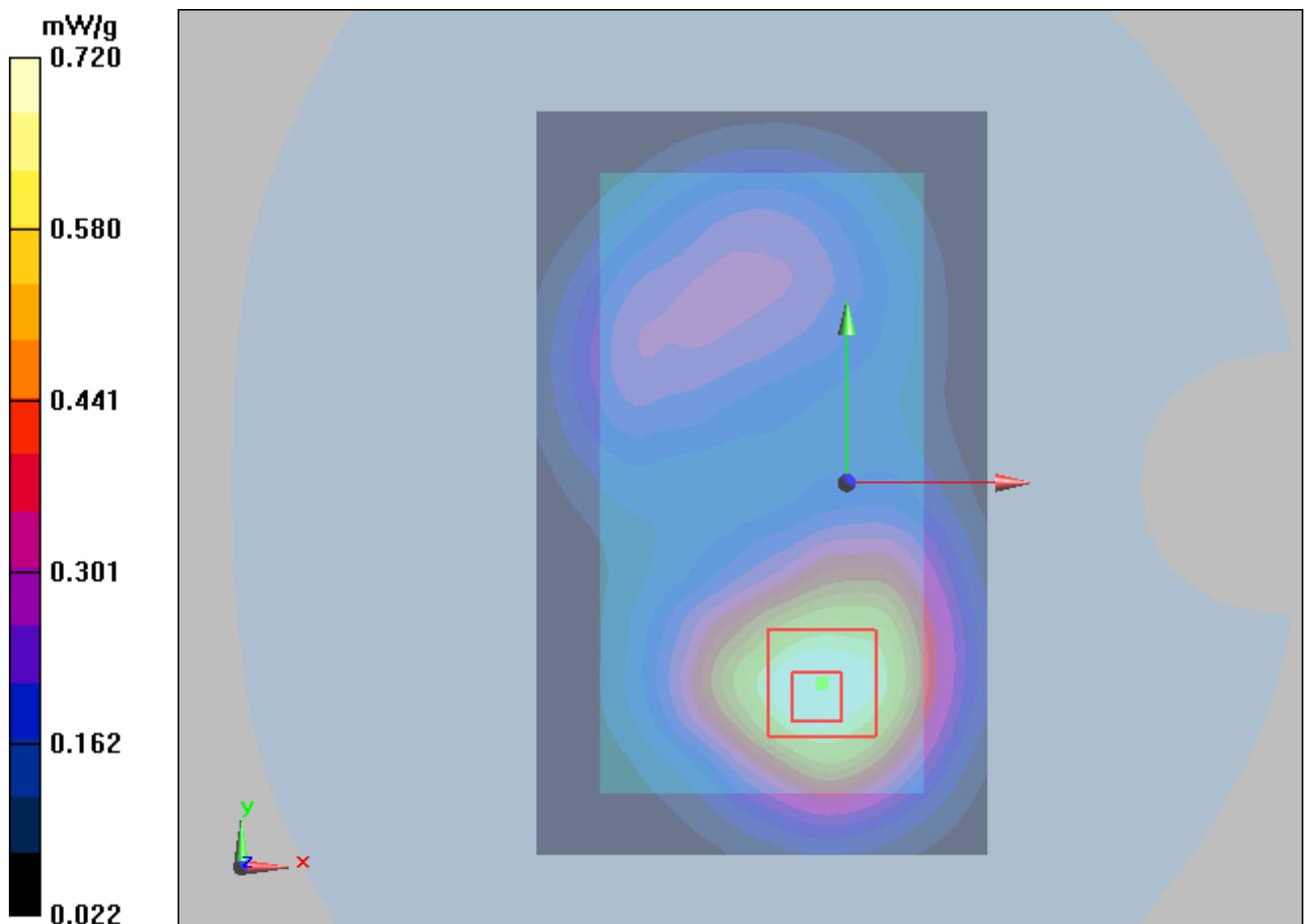


Figure 194 Body, LTE Band 4 with 50% RB Front Side Channel 20175

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LTE Band 4 with 50% RB Right Edge Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 9:44:36 AM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.595 mW/g

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

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

Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.582 mW/g

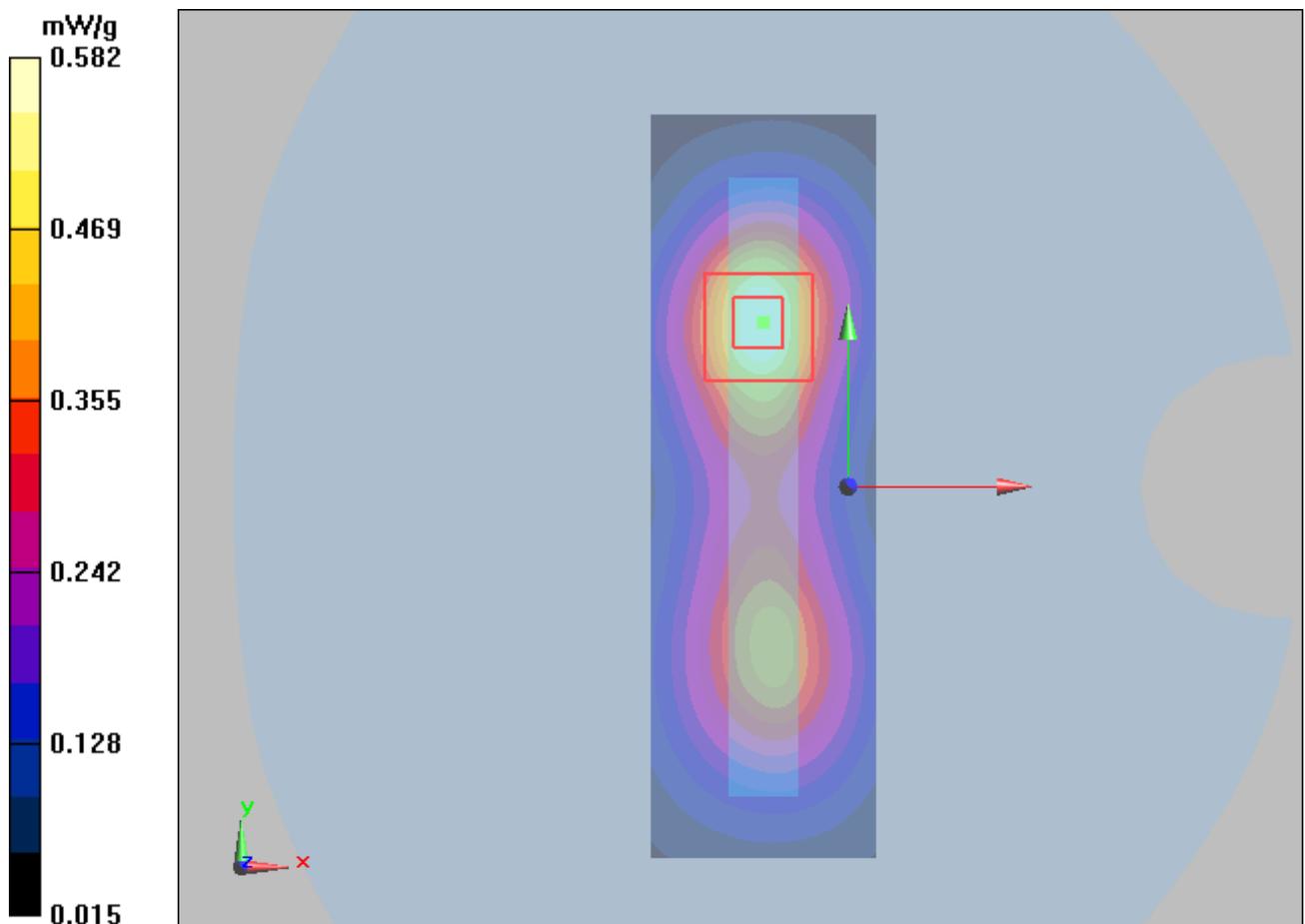


Figure 195 Body, LTE Band 4 with 50% RB Right Edge Channel 20175

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LTE Band 4 with 50% RB Bottom Edge Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm)

Date/Time: 11/26/2012 9:58:45 AM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Side Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.177 mW/g

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

Reference Value = 10.5 V/m; Power Drift = -0.090 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.169 mW/g

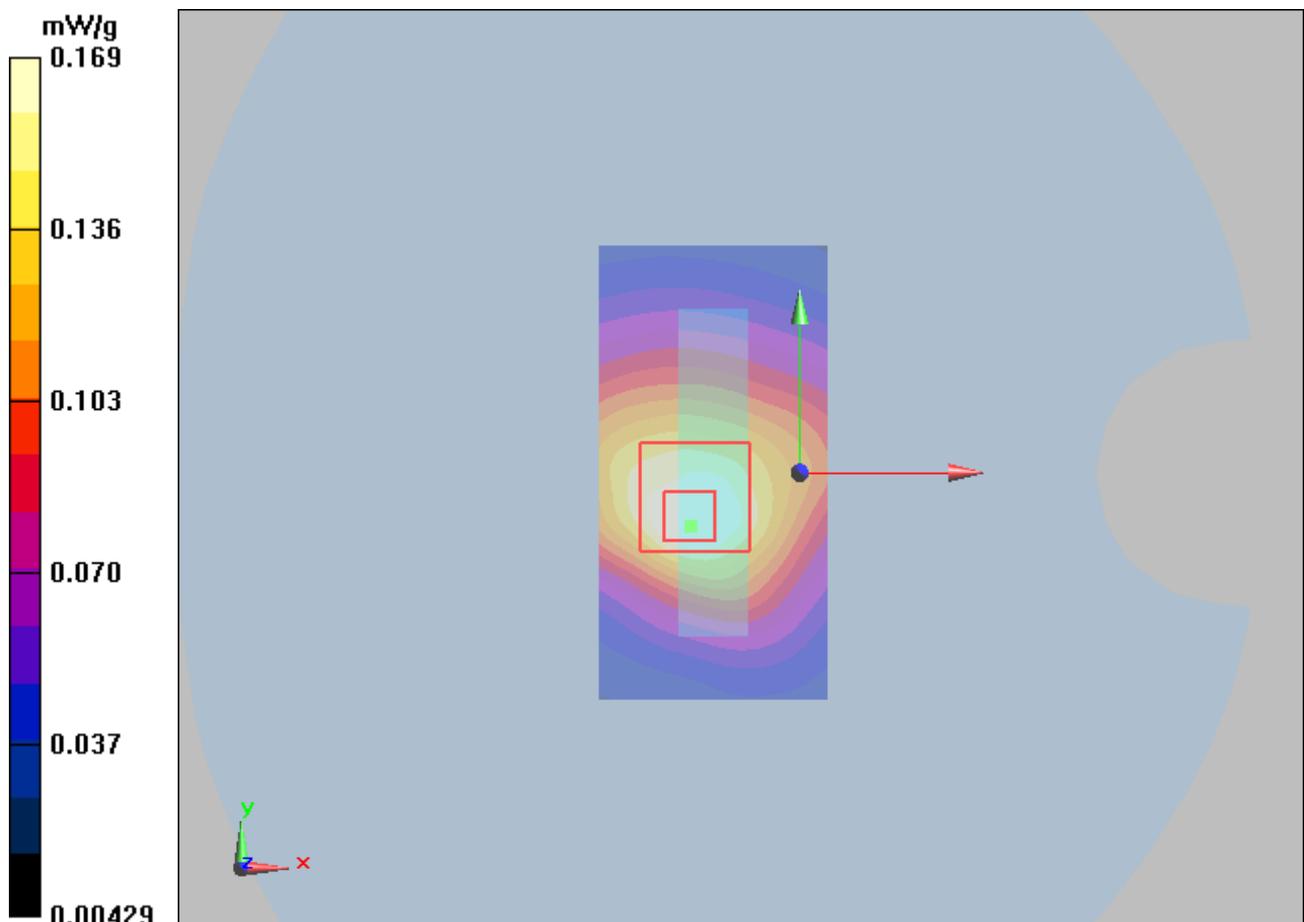


Figure 196 Body, LTE Band 4 with 50% RB Bottom Edge Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK, Low end)

Date/Time: 11/26/2012 12:31:02 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.4 mW/g

Back Side Middle(Low)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.753 mW/g

Maximum value of SAR (measured) = 1.33 mW/g

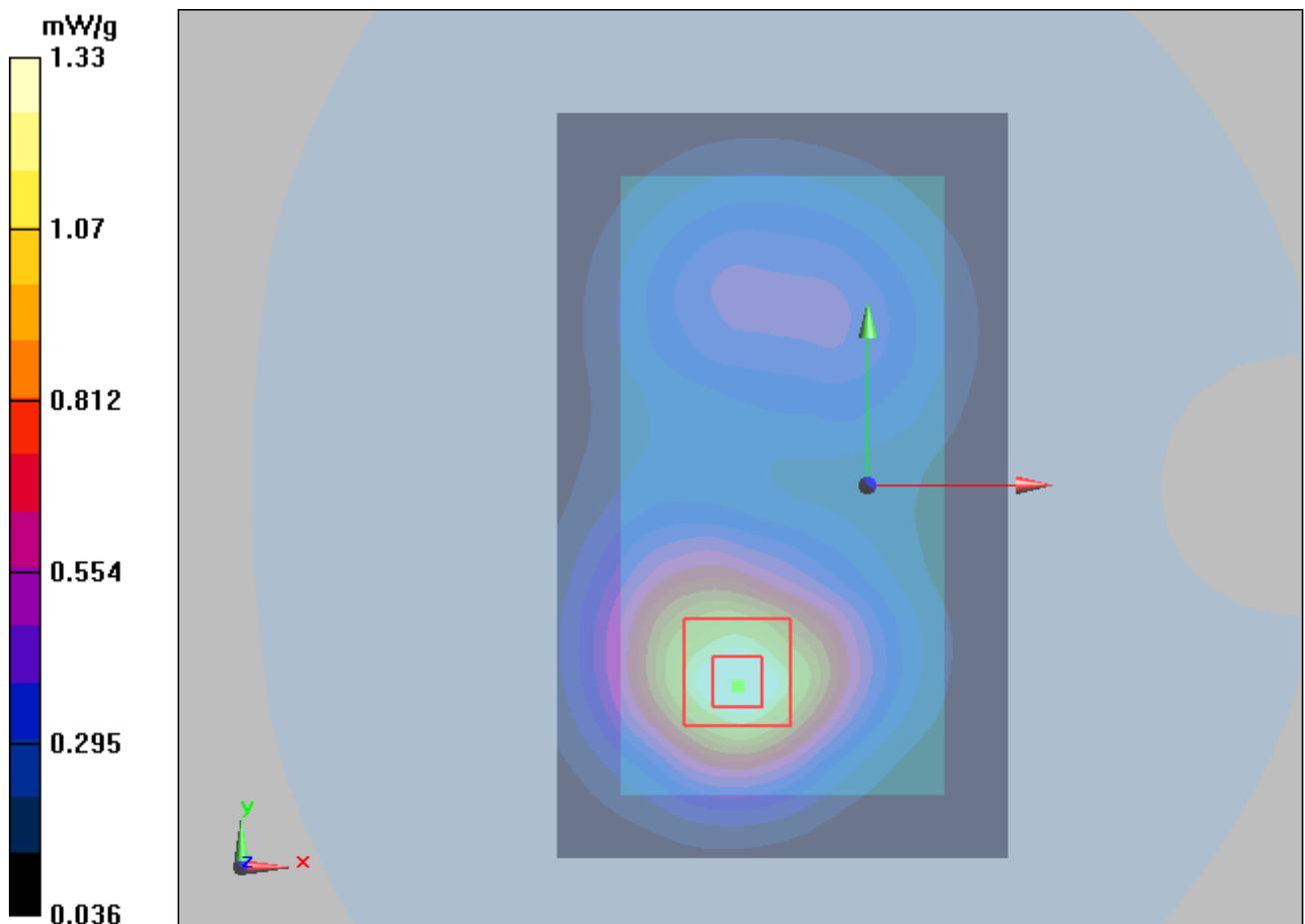


Figure 197 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK, High end)

Date/Time: 11/26/2012 11:55:00 AM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.41 mW/g

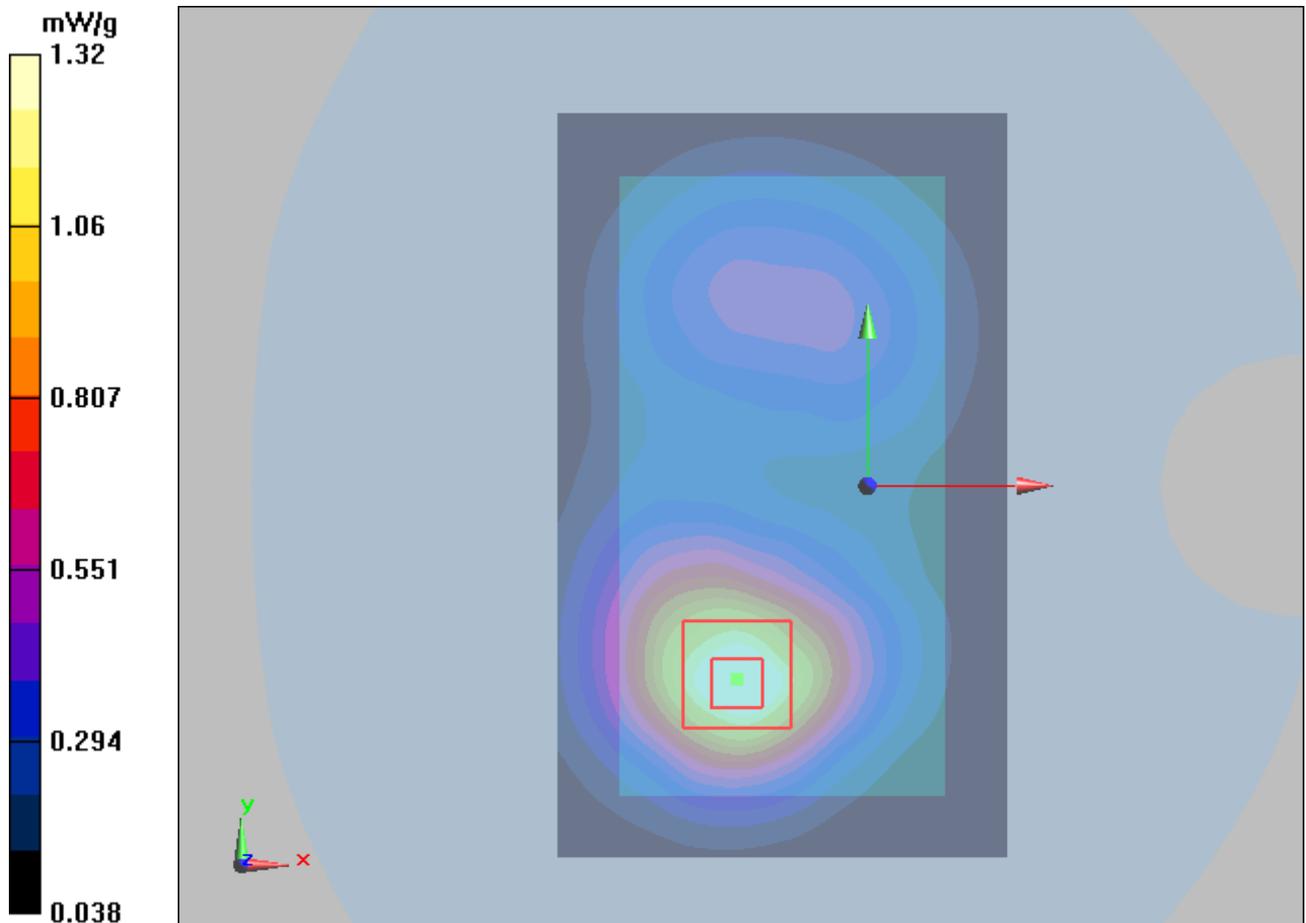
Back Side Middle(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.754 mW/g

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



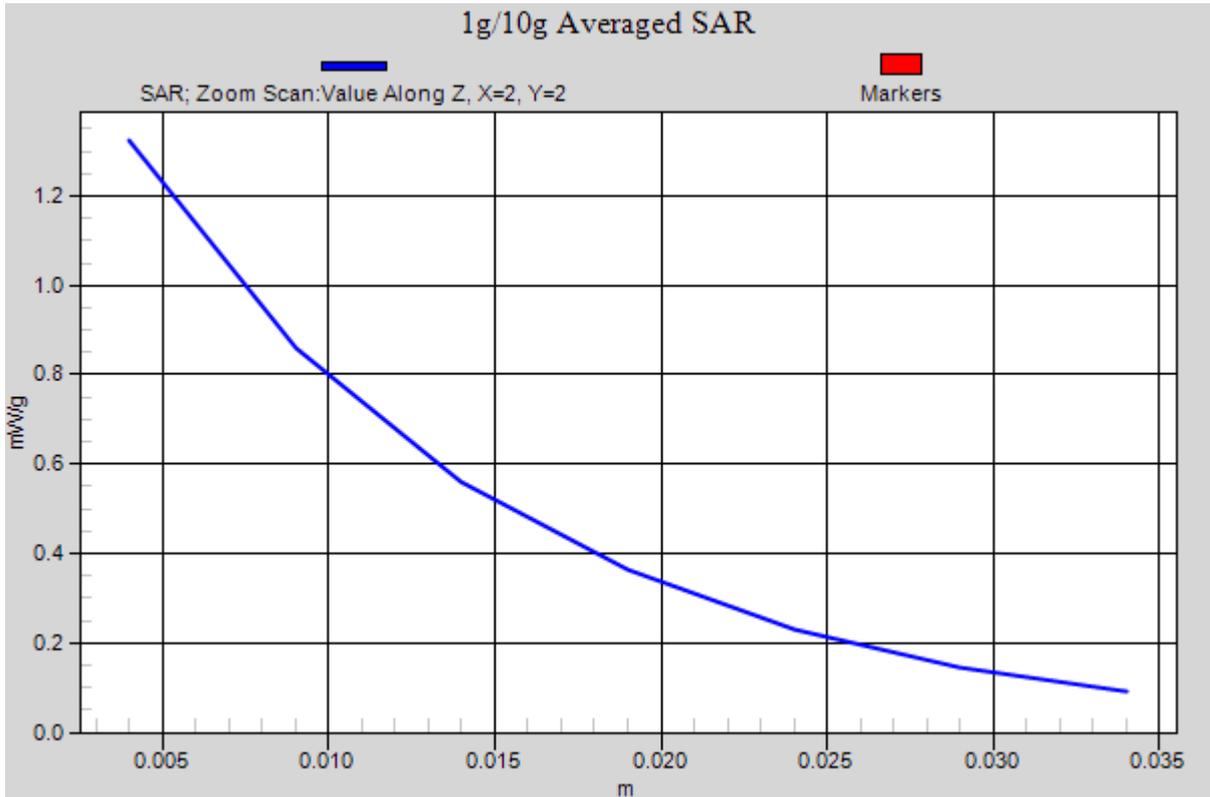


Figure 198 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side Middle (10MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm, 16QAM)

Date/Time: 11/26/2012 12:48:45 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.869 mW/g

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

Reference Value = 9.57 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 1.2 W/kg

SAR(1 g) = 0.767 mW/g; SAR(10 g) = 0.468 mW/g

Maximum value of SAR (measured) = 0.823 mW/g

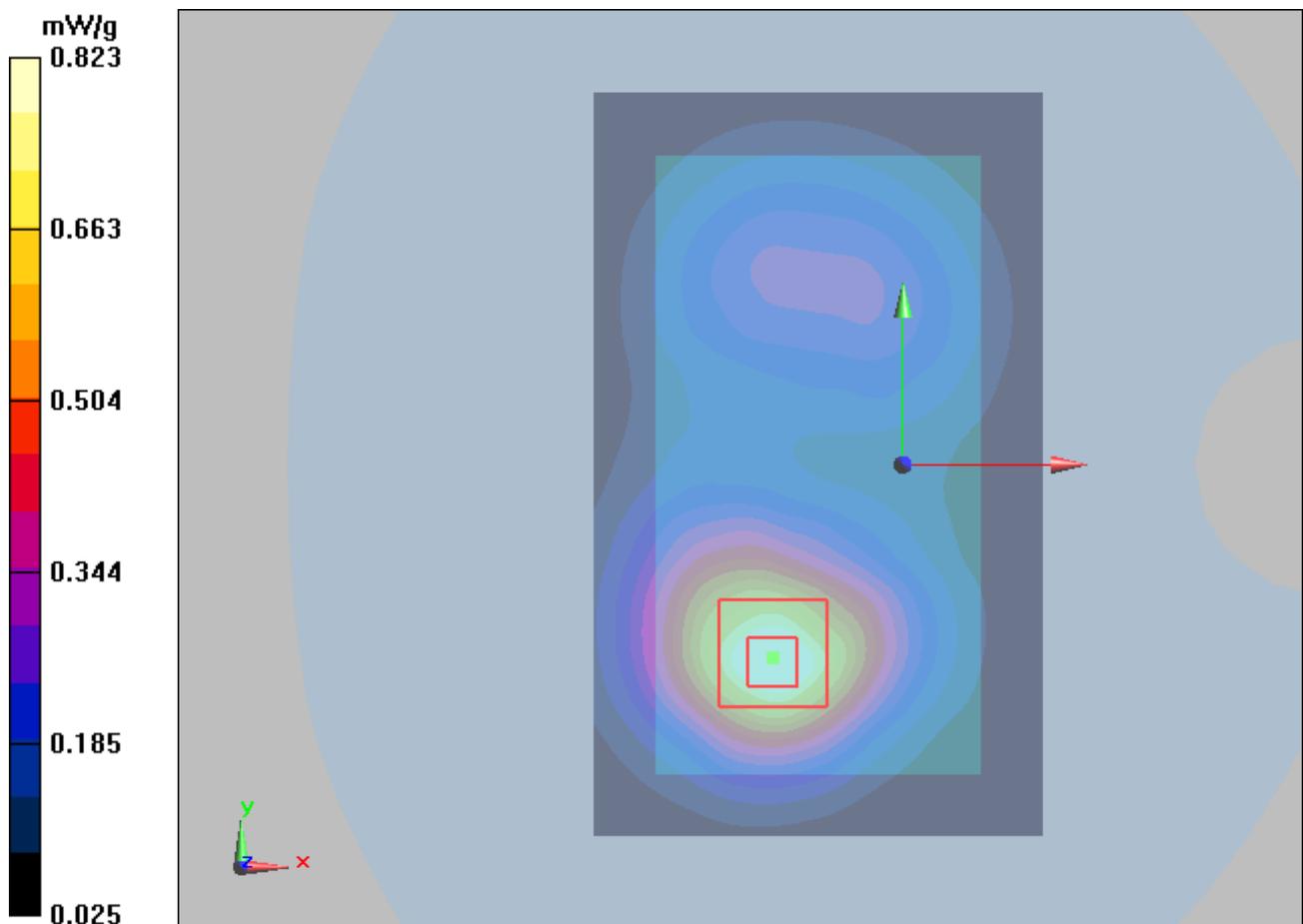


Figure 199 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, Low end)

Date/Time: 11/26/2012 1:05:14 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

Back Side Middle(Low)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.953 mW/g; SAR(10 g) = 0.584 mW/g

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

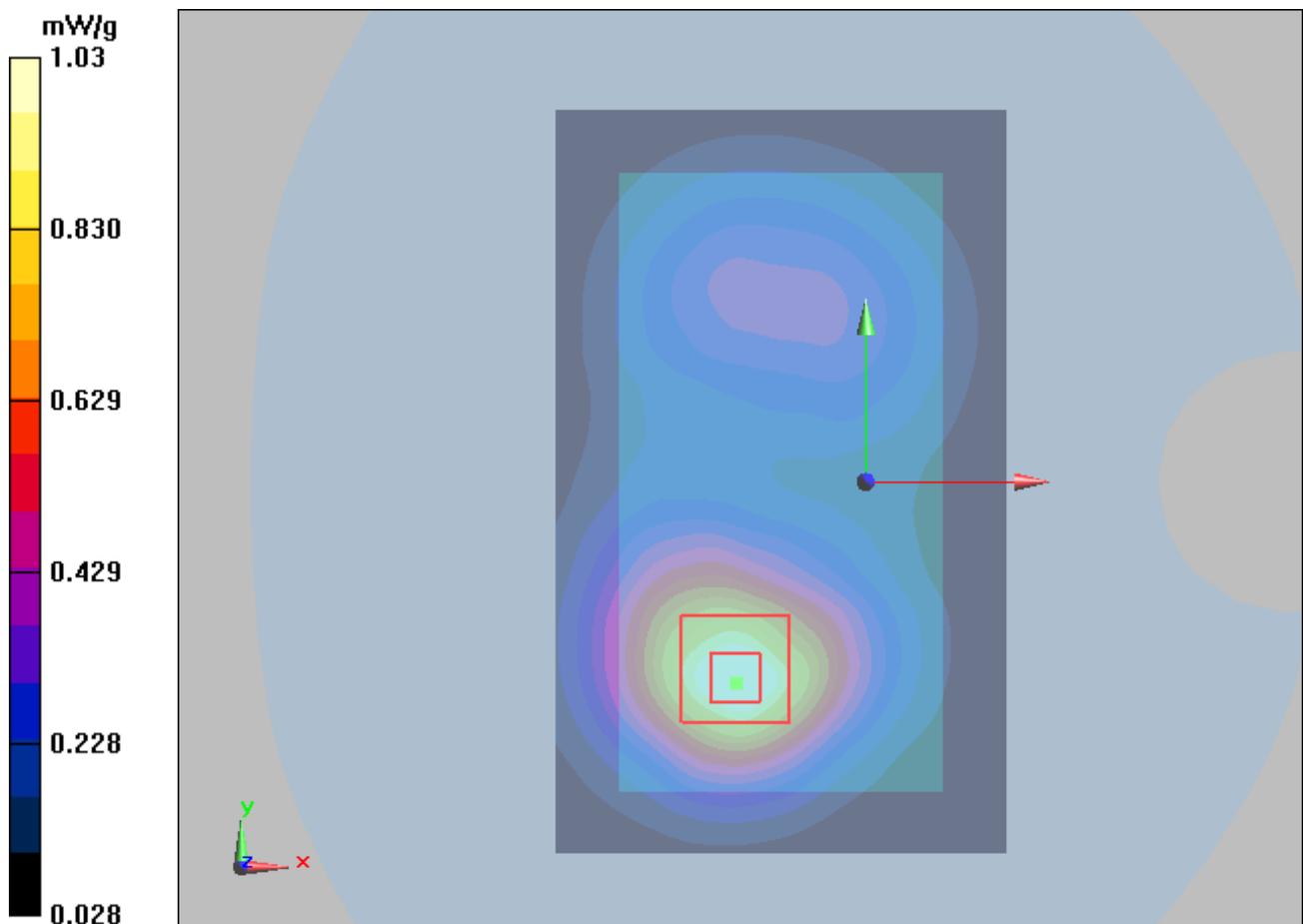


Figure 200 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (10MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, High end)

Date/Time: 11/26/2012 1:20:59 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

Back Side Middle(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.581 mW/g

Maximum value of SAR (measured) = 1.02 mW/g

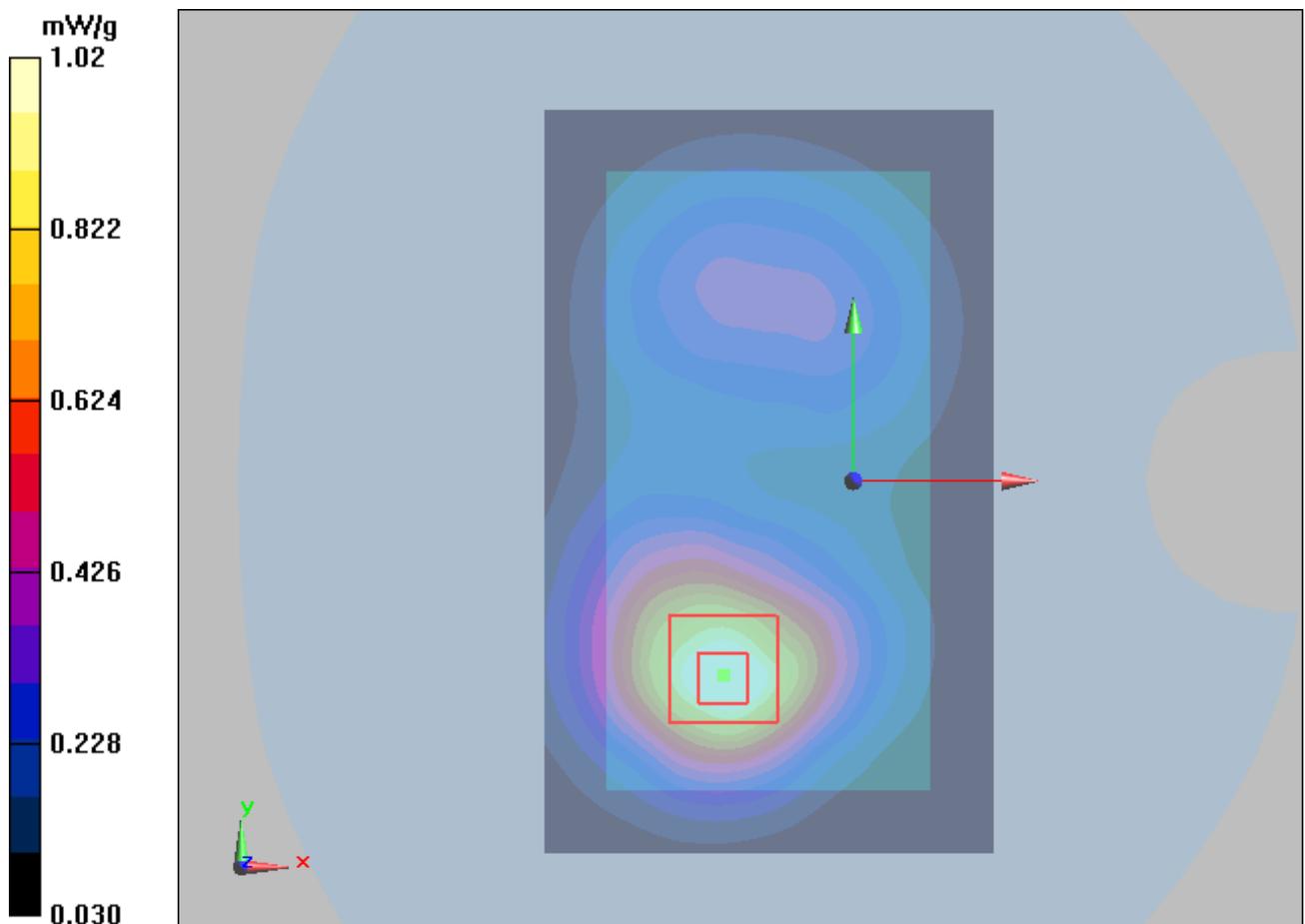


Figure 201 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Left Cheek Middle (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 2:05:25 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 12.9 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 0.691 W/kg

SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.316 mW/g

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

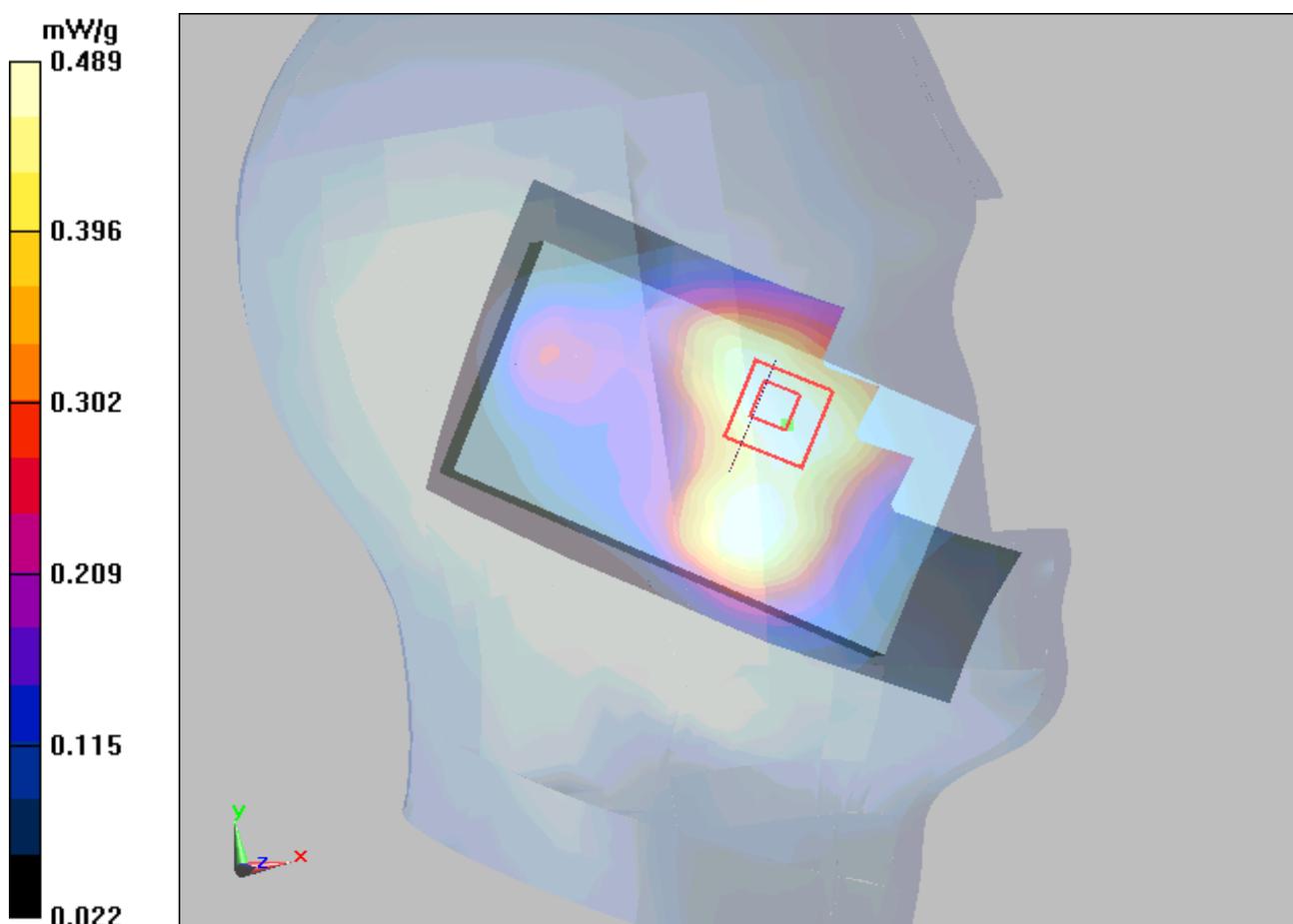


Figure 202 LTE Band 4 with 50% RB Left Hand Touch Cheek Channel 20175

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LTE Band 4 with 50% RB Left Tilt Middle (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 2:21:16 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.516 mW/g

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

Reference Value = 19.1 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 0.675 W/kg

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.259 mW/g

Maximum value of SAR (measured) = 0.486 mW/g

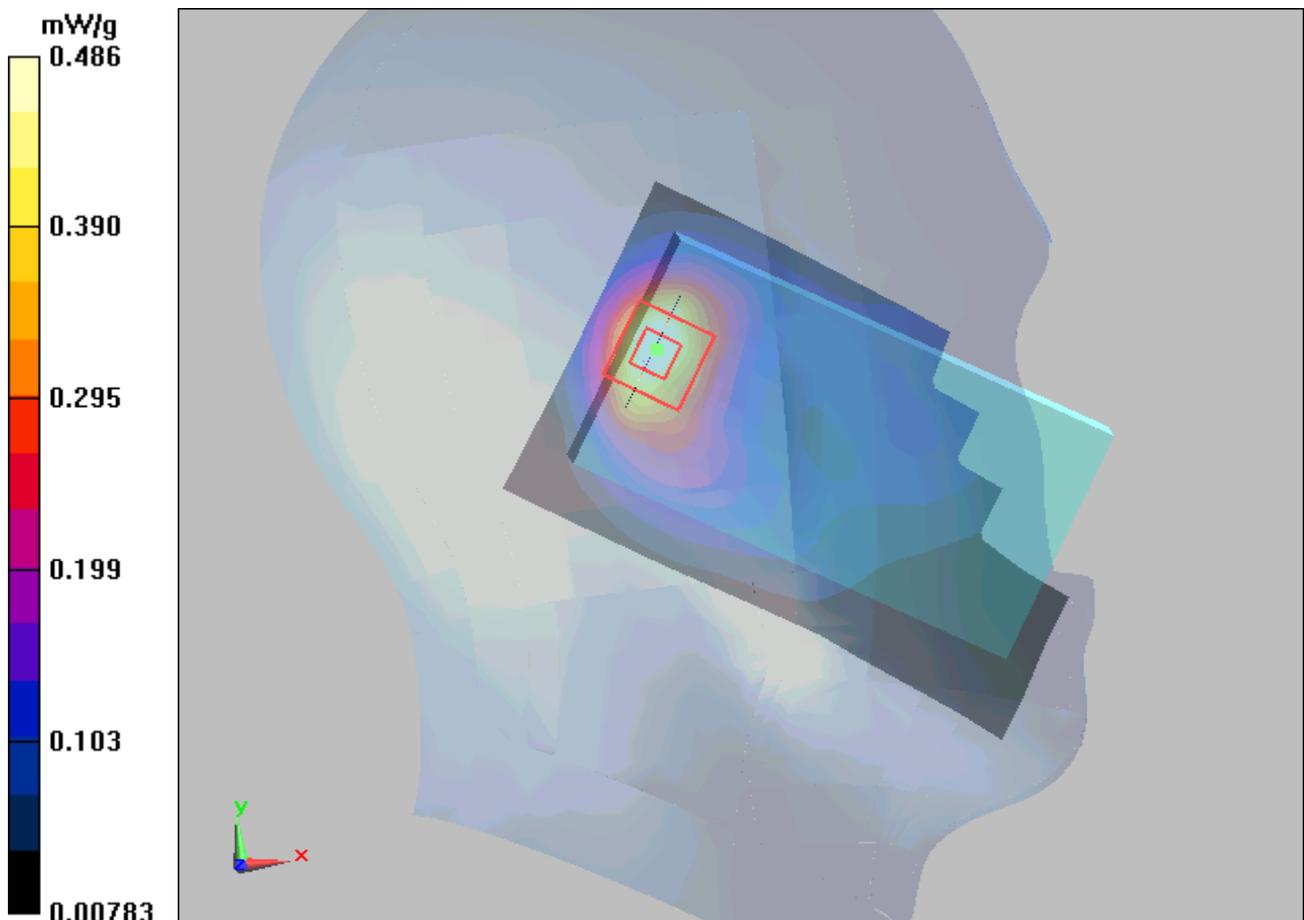


Figure 203 LTE Band 4 with 50% RB Left Hand Tilt 15° Channel 20175

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LTE Band 4 with 50% RB Right Cheek High (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 3:10:44 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.984 mW/g

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

Reference Value = 11.4 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 1.5 W/kg

SAR(1 g) = 0.942 mW/g; SAR(10 g) = 0.577 mW/g

Maximum value of SAR (measured) = 0.996 mW/g

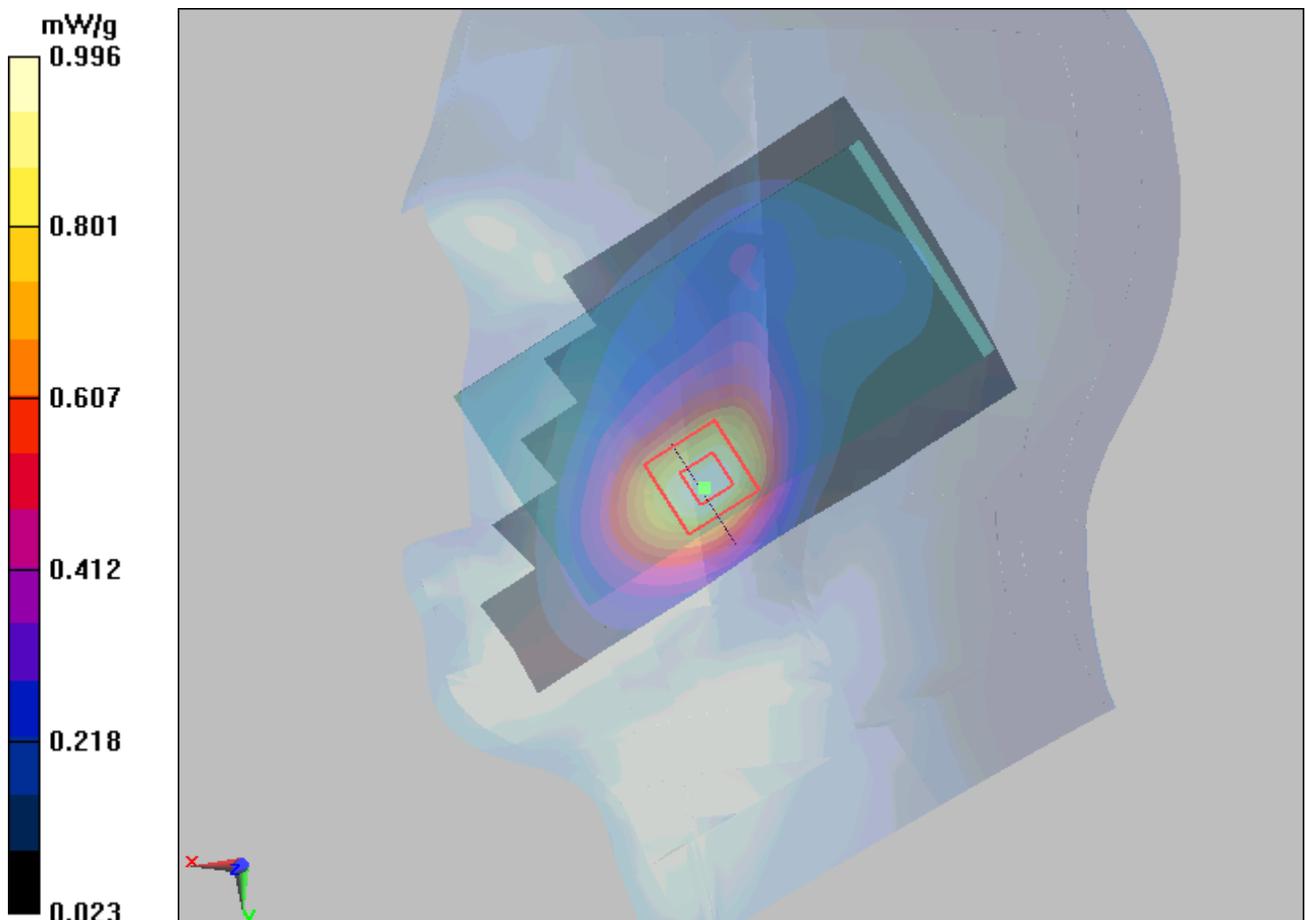


Figure 204 LTE Band 4 with 50% RB Right Hand Touch Cheek Channel 20393

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LTE Band 4 with 50% RB Right Cheek Middle (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 2:52:06 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.971 mW/g

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

Reference Value = 11.7 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.883 mW/g; SAR(10 g) = 0.552 mW/g

Maximum value of SAR (measured) = 0.951 mW/g

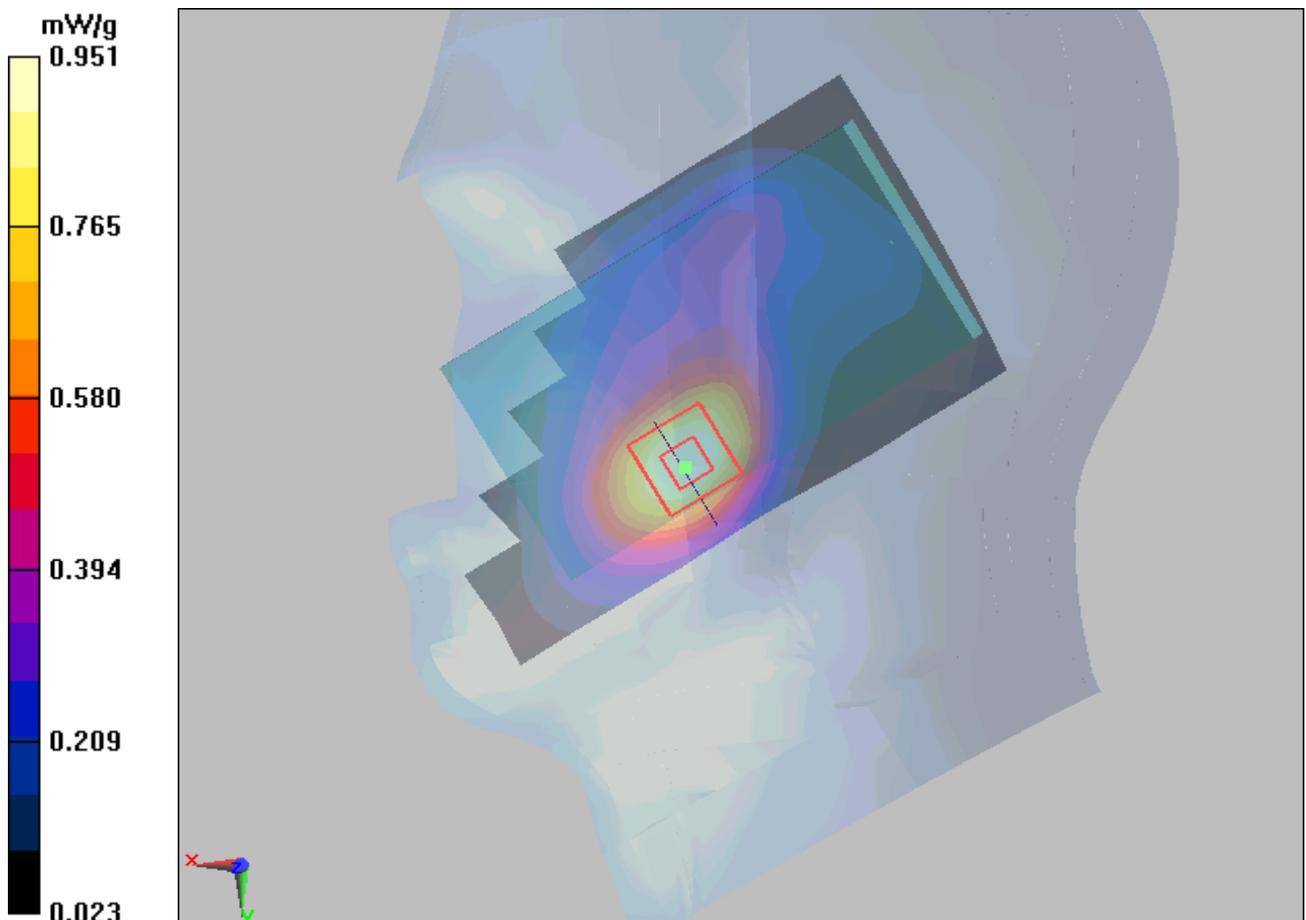


Figure 205 LTE Band 4 with 50% RB Right Hand Touch Cheek Channel 20175

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LTE Band 4 with 50% RB Right Cheek Low (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 3:34:24 PM

Communication System: LTE; Frequency: 1710.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1710.7$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.3 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.426 mW/g

Maximum value of SAR (measured) = 0.706 mW/g

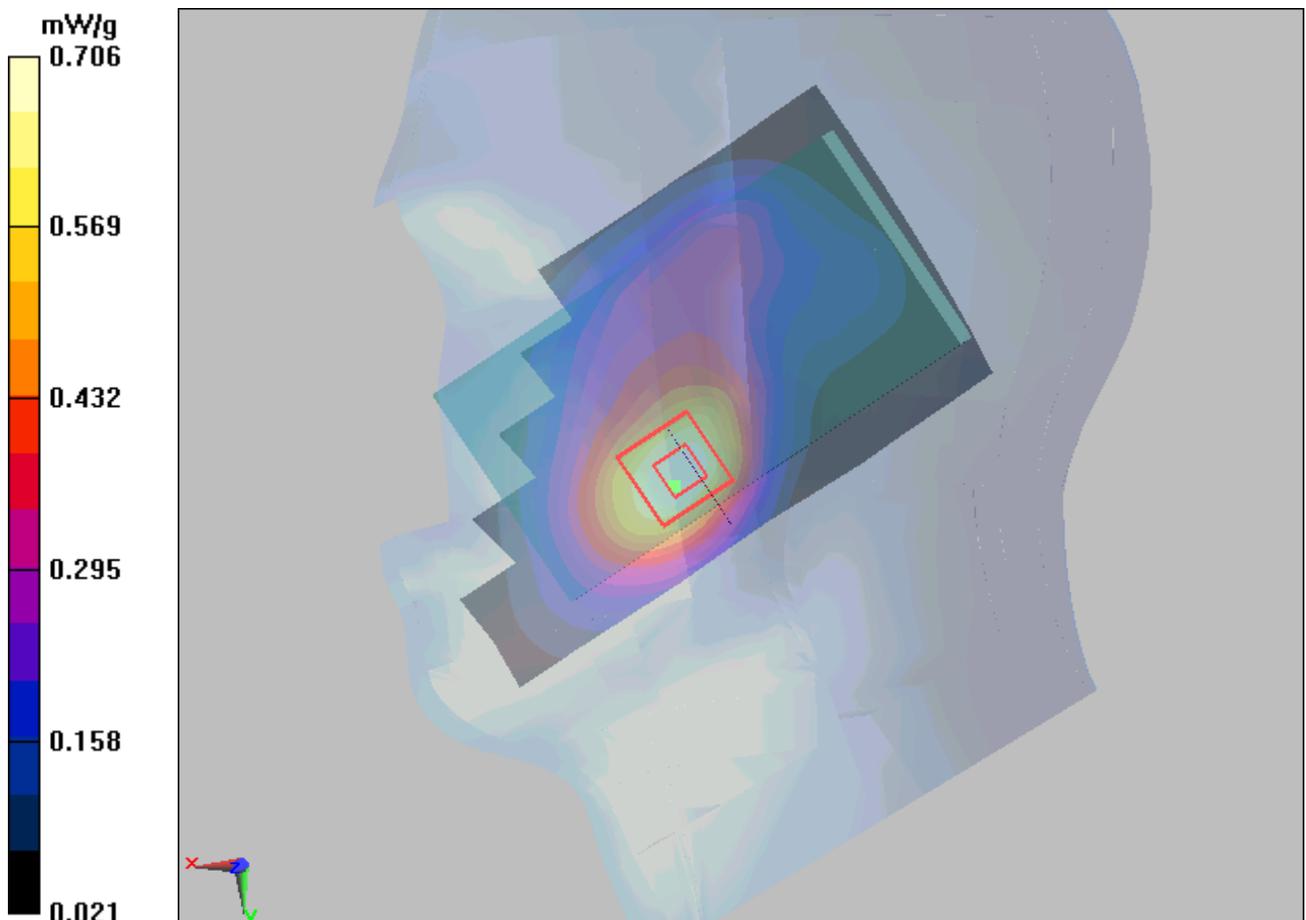


Figure 206 LTE Band 4 with 50% RB Right Hand Touch Cheek Channel 19957

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LTE Band 4 with 50% RB Right Tilt Middle (1.4MHz, SN: UWDC320XBGN01407, QPSK)

Date/Time: 10/13/2012 3:52:18 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.454 mW/g

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

Reference Value = 16.7 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.228 mW/g

Maximum value of SAR (measured) = 0.393 mW/g

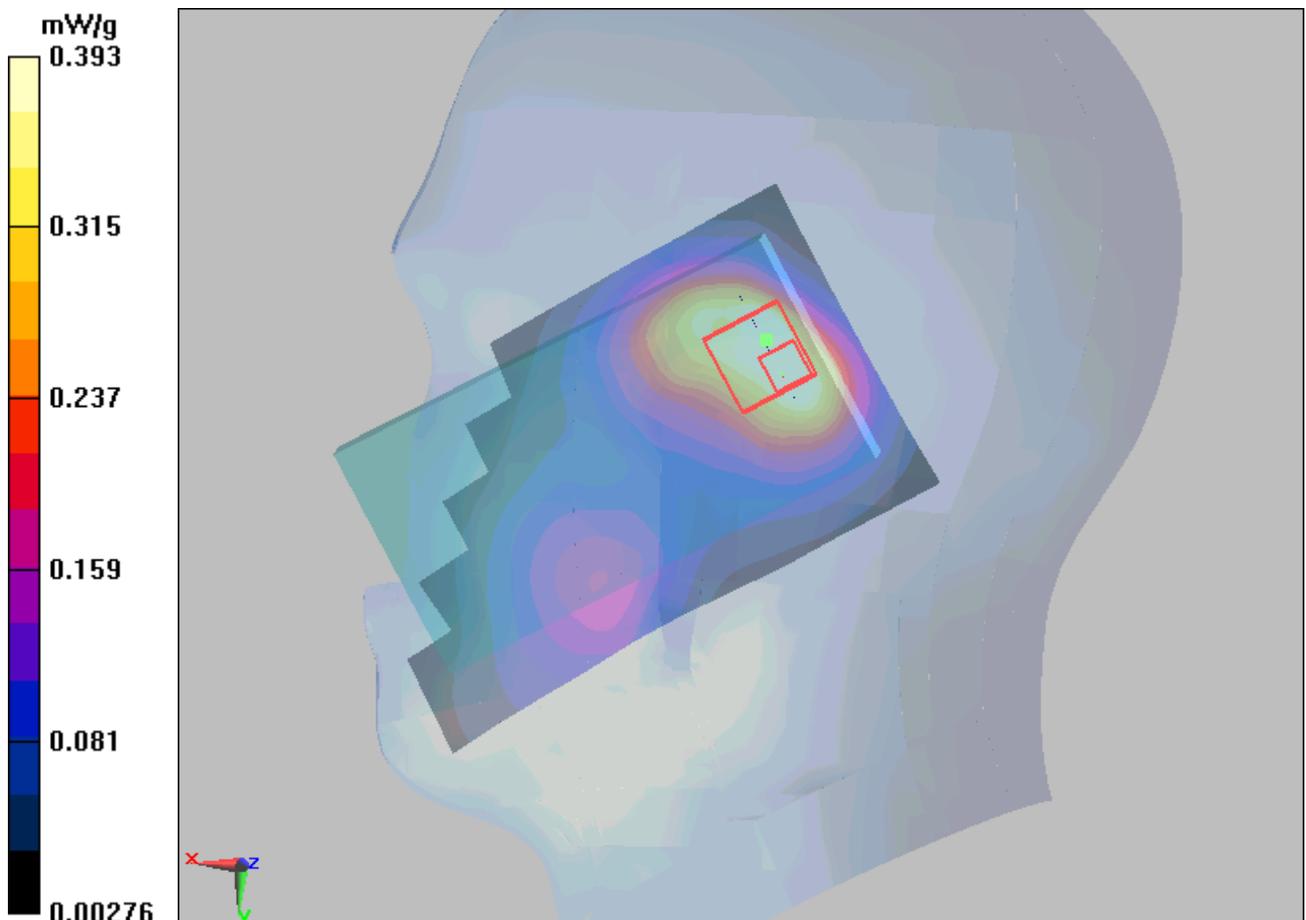


Figure 207 LTE Band 4 with 50% RB Right Hand Tilt 15° Channel 20175

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LTE Band 4 with 1 RB Right Cheek High (1.4MHz, SN: UWDC320XBGN01407, QPSK, Low end)

Date/Time: 10/13/2012 4:32:05 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

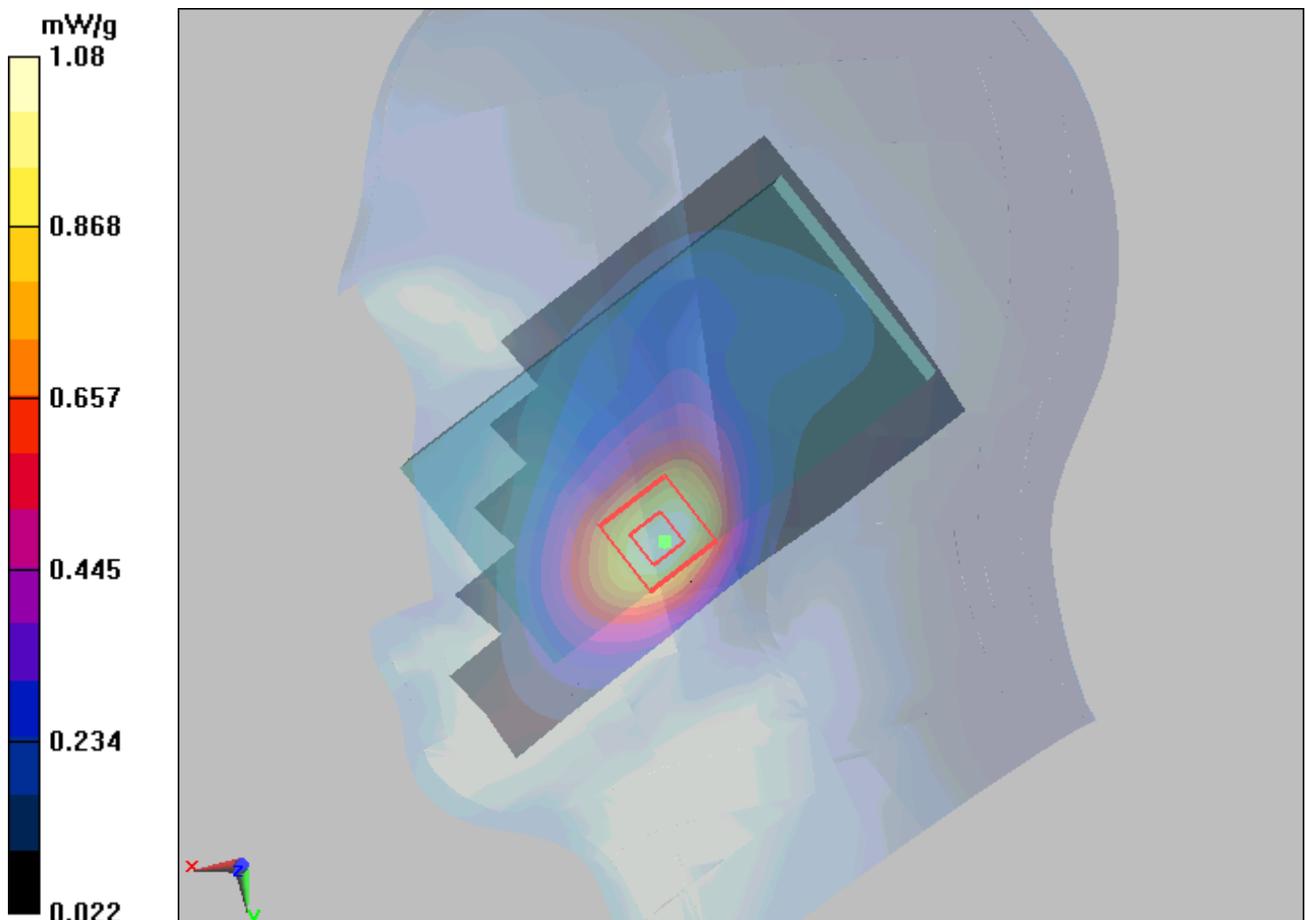
Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.612 mW/g

Maximum value of SAR (measured) = 1.08 mW/g



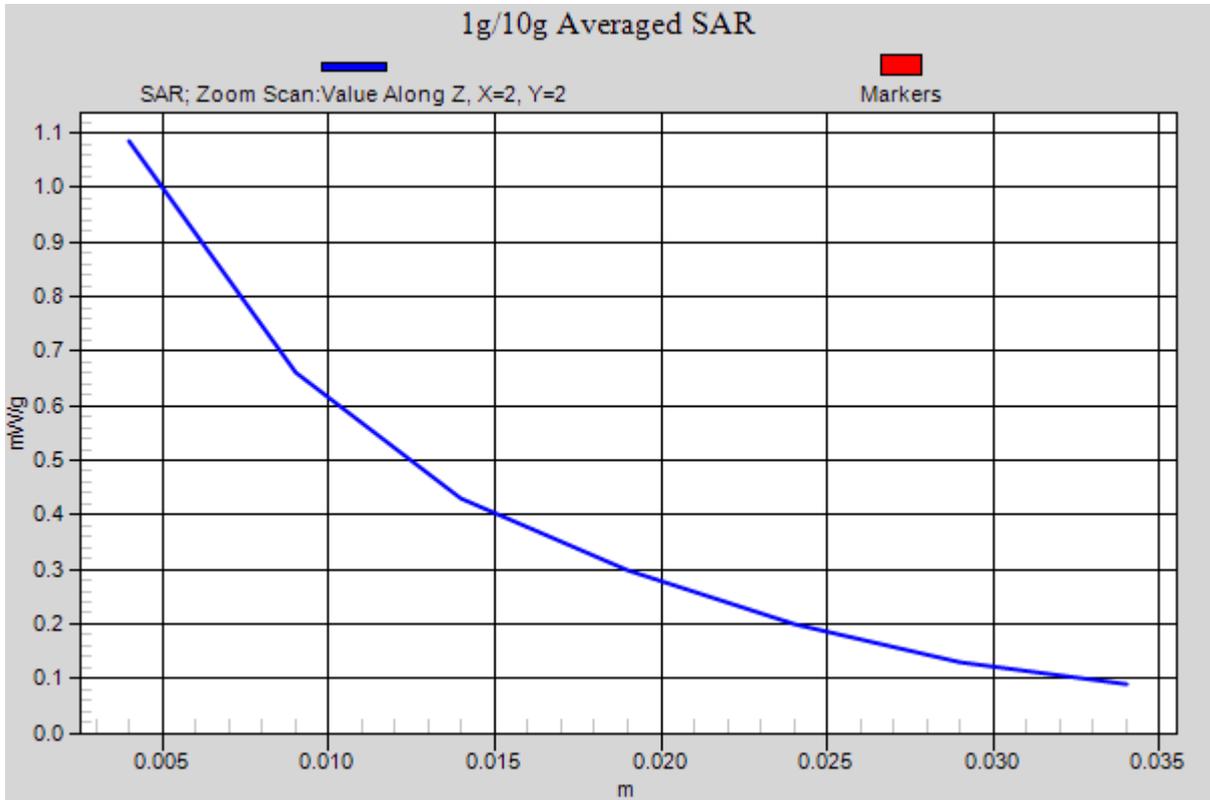


Figure 208 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20393

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LTE Band 4 with 1 RB Right Cheek High (1.4MHz, SN: UWDC320XBGN01407, QPSK, High end)

Date/Time: 10/13/2012 4:16:23 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.07 mW/g

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

Reference Value = 11.5 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.600 mW/g

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

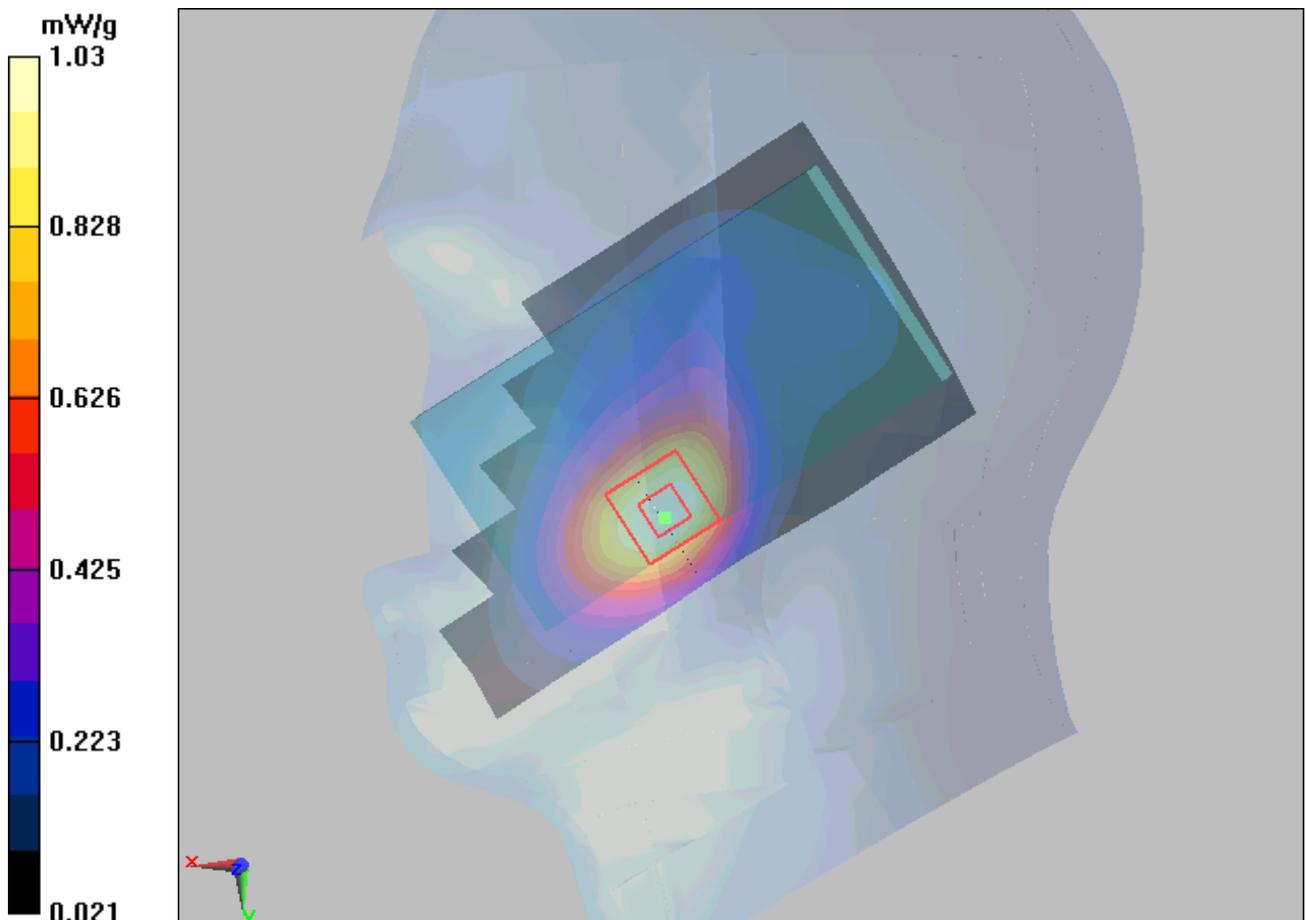


Figure 209 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20393

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LTE Band 4 with 50% RB Right Cheek High (1.4MHz, SN: UWDC320XBGN01407, 16QAM)

Date/Time: 10/13/2012 5:29:07 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.856 mW/g

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

Reference Value = 10.8 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 1.3 W/kg

SAR(1 g) = 0.802 mW/g; SAR(10 g) = 0.493 mW/g

Maximum value of SAR (measured) = 0.856 mW/g

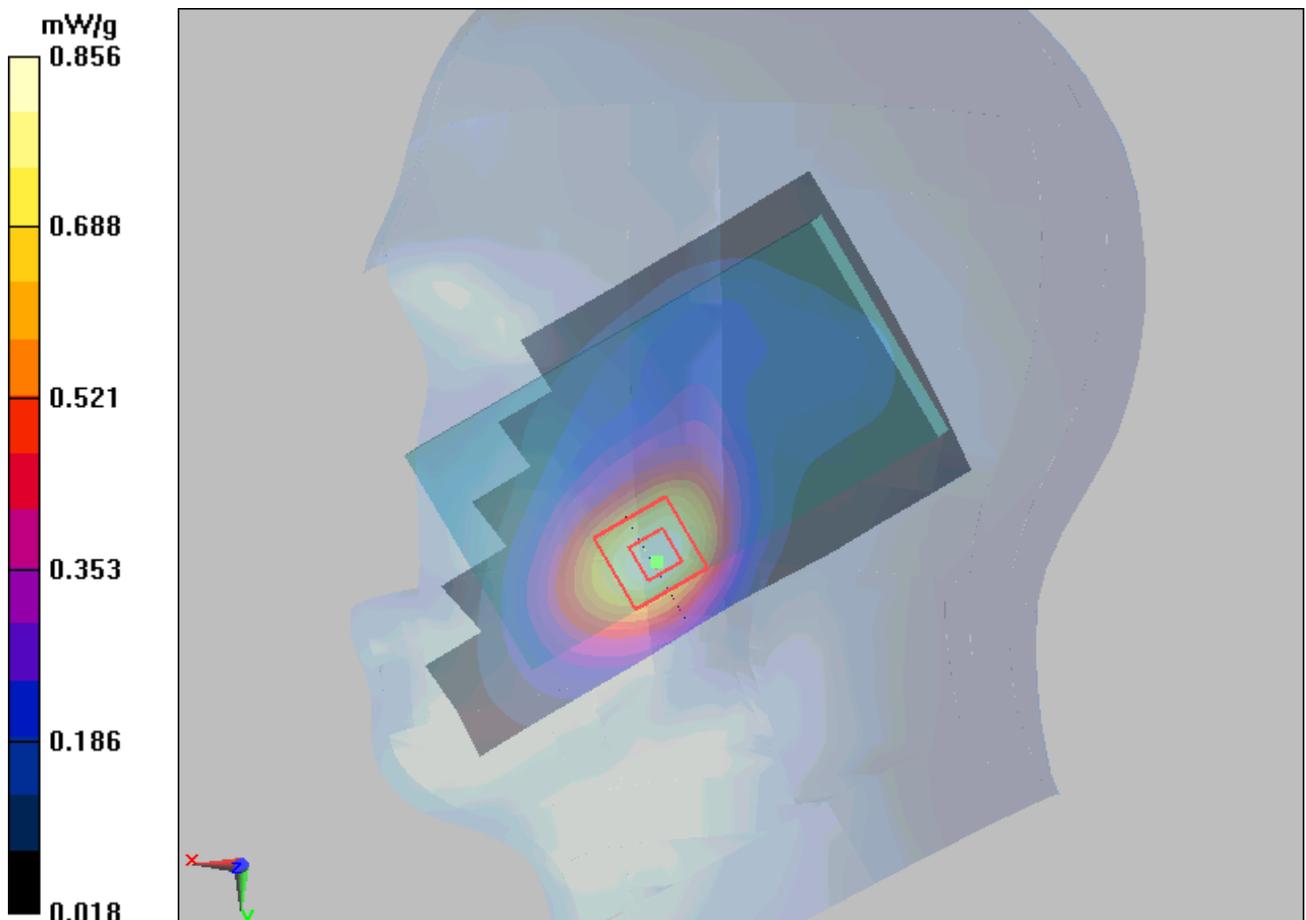


Figure 210 LTE Band 4 with 50% RB Right Hand Touch Cheek Channel 20393

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LTE Band 4 with 1 RB Right Cheek High (1.4MHz, SN: UWDC320XBGN01407, 16QAM, Low end)

Date/Time: 10/13/2012 4:49:17 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.5 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.803 mW/g; SAR(10 g) = 0.495 mW/g

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

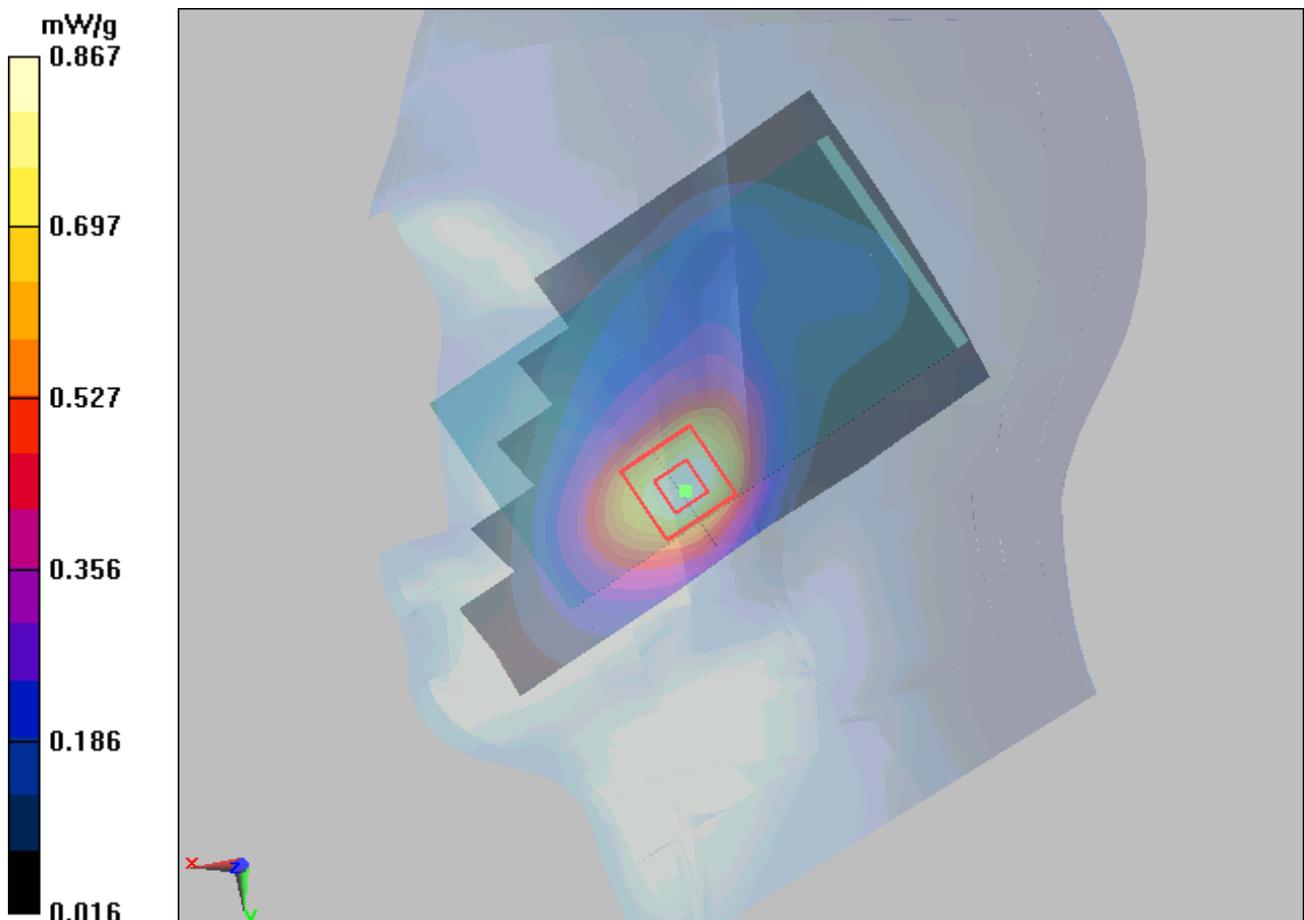


Figure 211 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20393

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LTE Band 4 with 1 RB Right Cheek High (1.4MHz, SN: UWDC320XBGN01407, 16QAM, High end)

Date/Time: 10/13/2012 5:07:34 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.874 mW/g

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

Reference Value = 10.4 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.484 mW/g

Maximum value of SAR (measured) = 0.855 mW/g

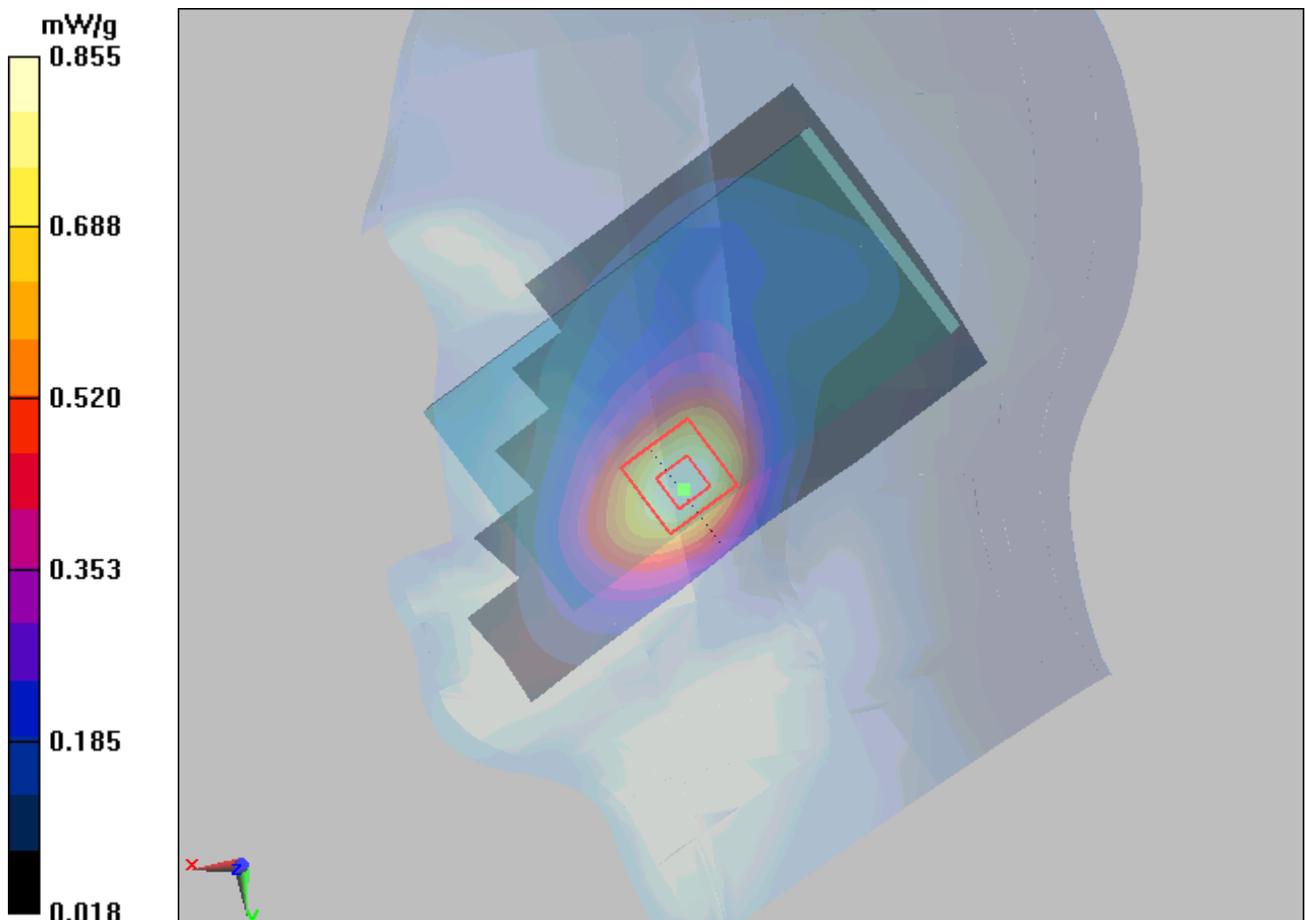


Figure 212 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20393

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LTE Band 4 with 1 RB Right Cheek High (1.4MHz, SN: MAIC702X03600810, QPSK, Low end)

Date/Time: 10/13/2012 5:47:10 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.9, 4.9, 4.9); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.1 mW/g

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

Reference Value = 11.7 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.990 mW/g; SAR(10 g) = 0.611 mW/g

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

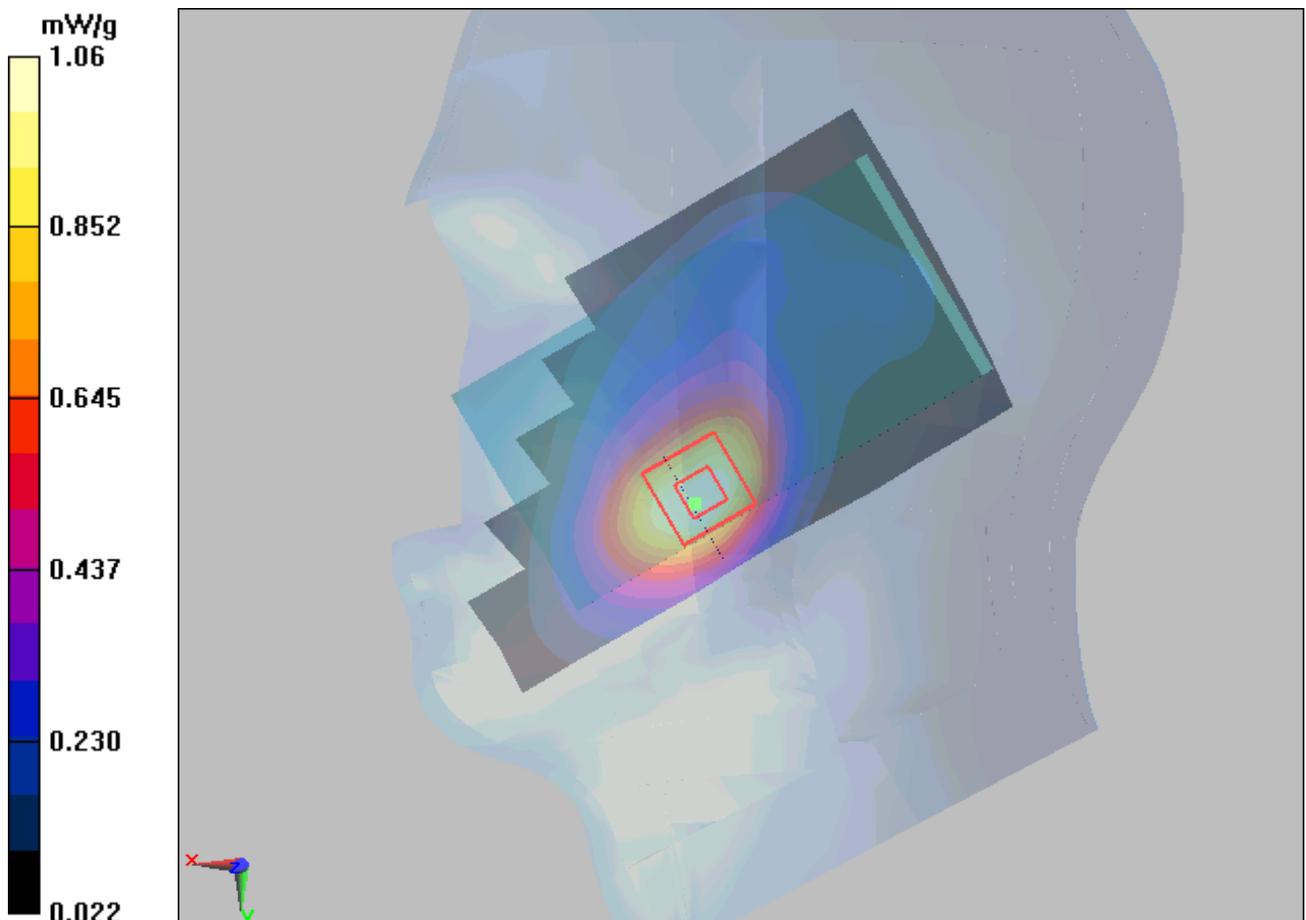


Figure 213 LTE Band 4 with 1 RB Right Hand Touch Cheek Channel 20393

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LTE Band 4 with 50% RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/12/2012 8:21:41 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.799 mW/g

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

Reference Value = 9.92 V/m; Power Drift = -0.00474 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.739 mW/g; SAR(10 g) = 0.458 mW/g

Maximum value of SAR (measured) = 0.801 mW/g

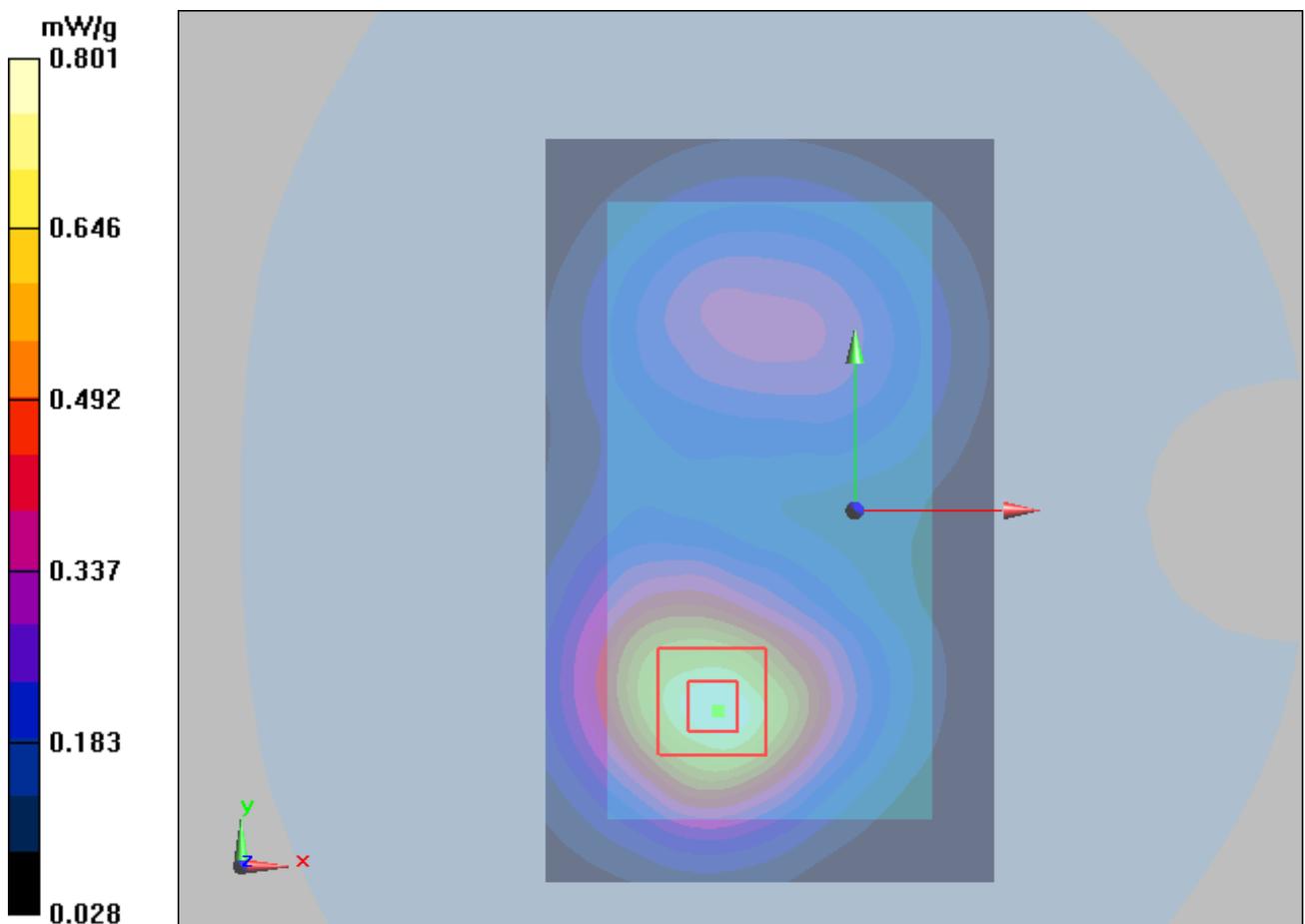


Figure 214 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 50% RB Front Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/12/2012 8:03:43 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.655 mW/g

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

Reference Value = 9.5 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.837 W/kg

SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.374 mW/g

Maximum value of SAR (measured) = 0.613 mW/g

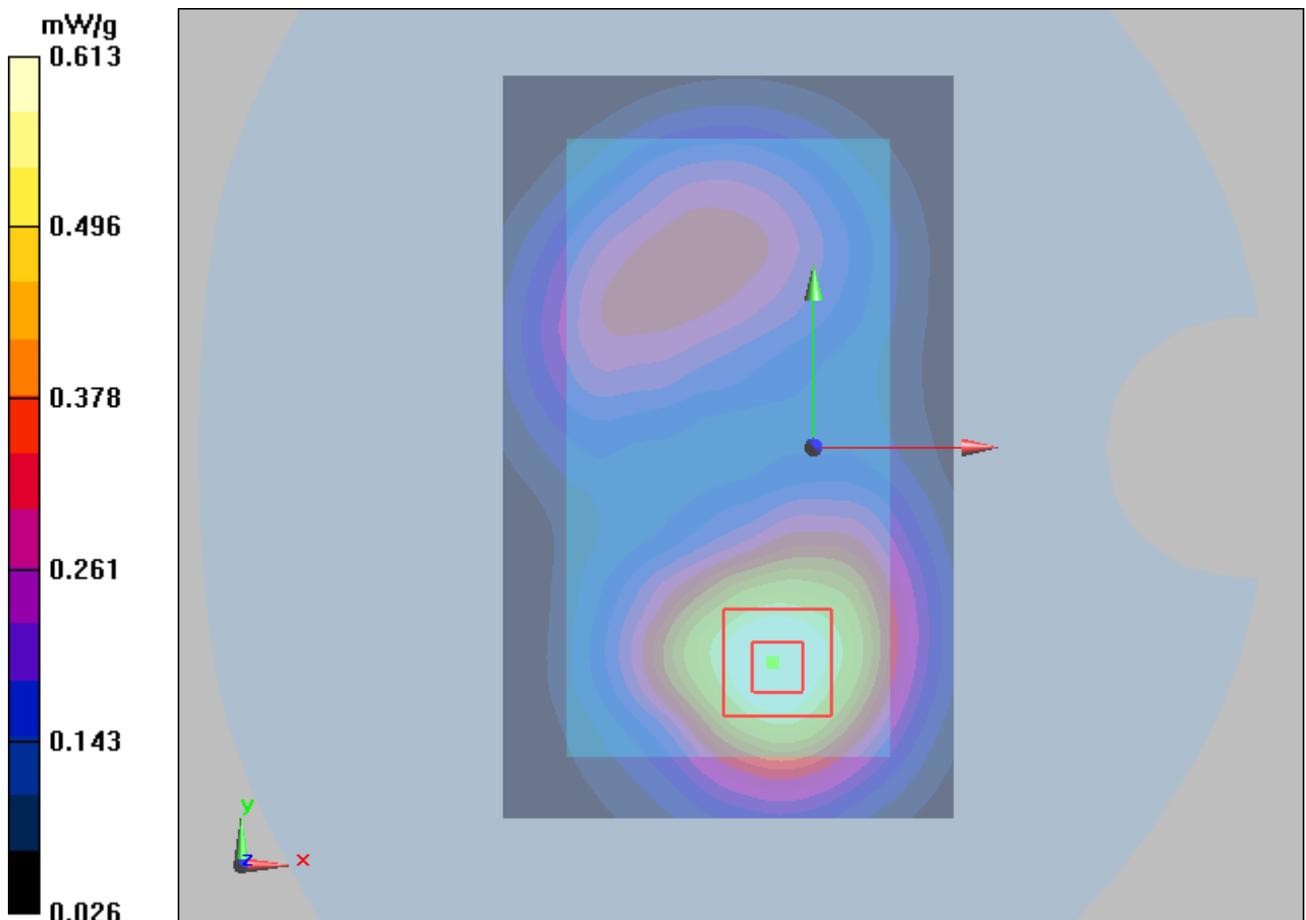


Figure 215 Body, LTE Band 4 with 50% RB Front Side Channel 20175

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LTE Band 4 with 50% RB and Earphone Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm)

Date/Time: 10/12/2012 8:41:11 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.718 mW/g

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

Reference Value = 11.7 V/m; Power Drift = 0.00437 dB

Peak SAR (extrapolated) = 0.959 W/kg

SAR(1 g) = 0.628 mW/g; SAR(10 g) = 0.395 mW/g

Maximum value of SAR (measured) = 0.668 mW/g

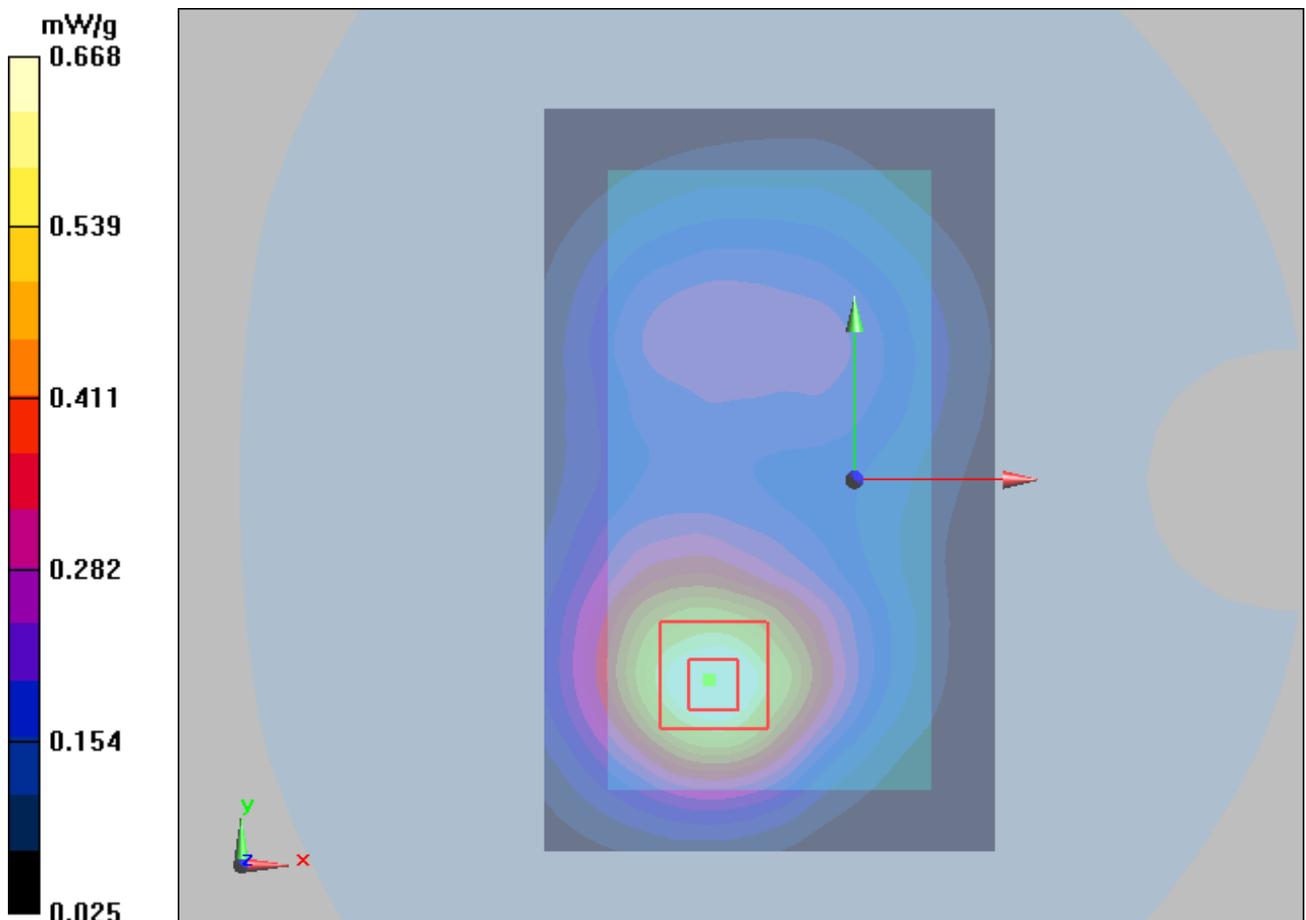


Figure 216 Body, LTE Band 4 with 50% RB and Earphone Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, QPSK, Low end)

Date/Time: 10/12/2012 9:55:49 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.860 mW/g

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

Reference Value = 10.3 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.753 mW/g; SAR(10 g) = 0.473 mW/g

Maximum value of SAR (measured) = 0.794 mW/g

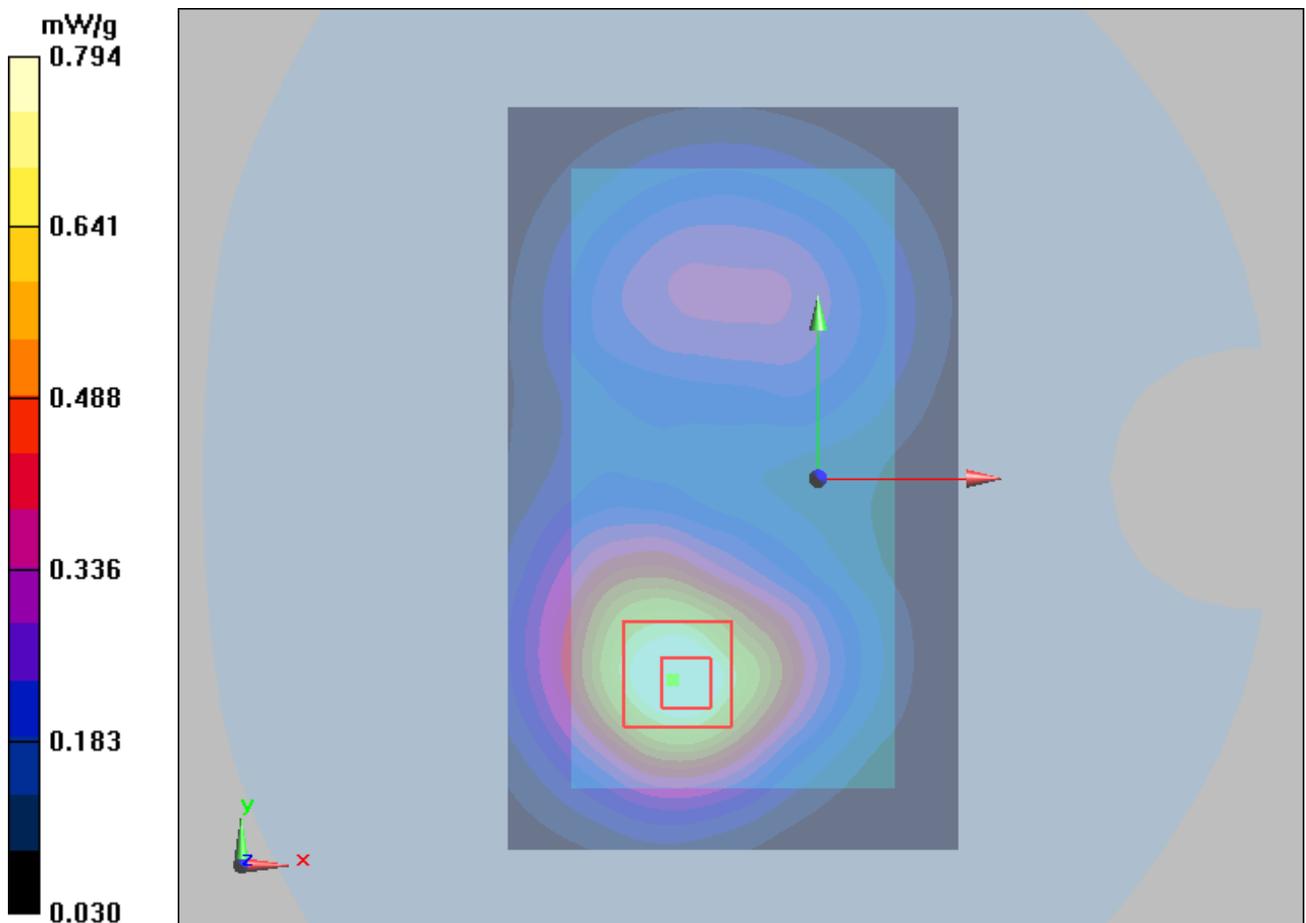


Figure 217 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, QPSK, High end)

Date/Time: 10/12/2012 10:12:17 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.837 mW/g

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

Reference Value = 10 V/m; Power Drift = 0.099 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.758 mW/g; SAR(10 g) = 0.472 mW/g

Maximum value of SAR (measured) = 0.834 mW/g

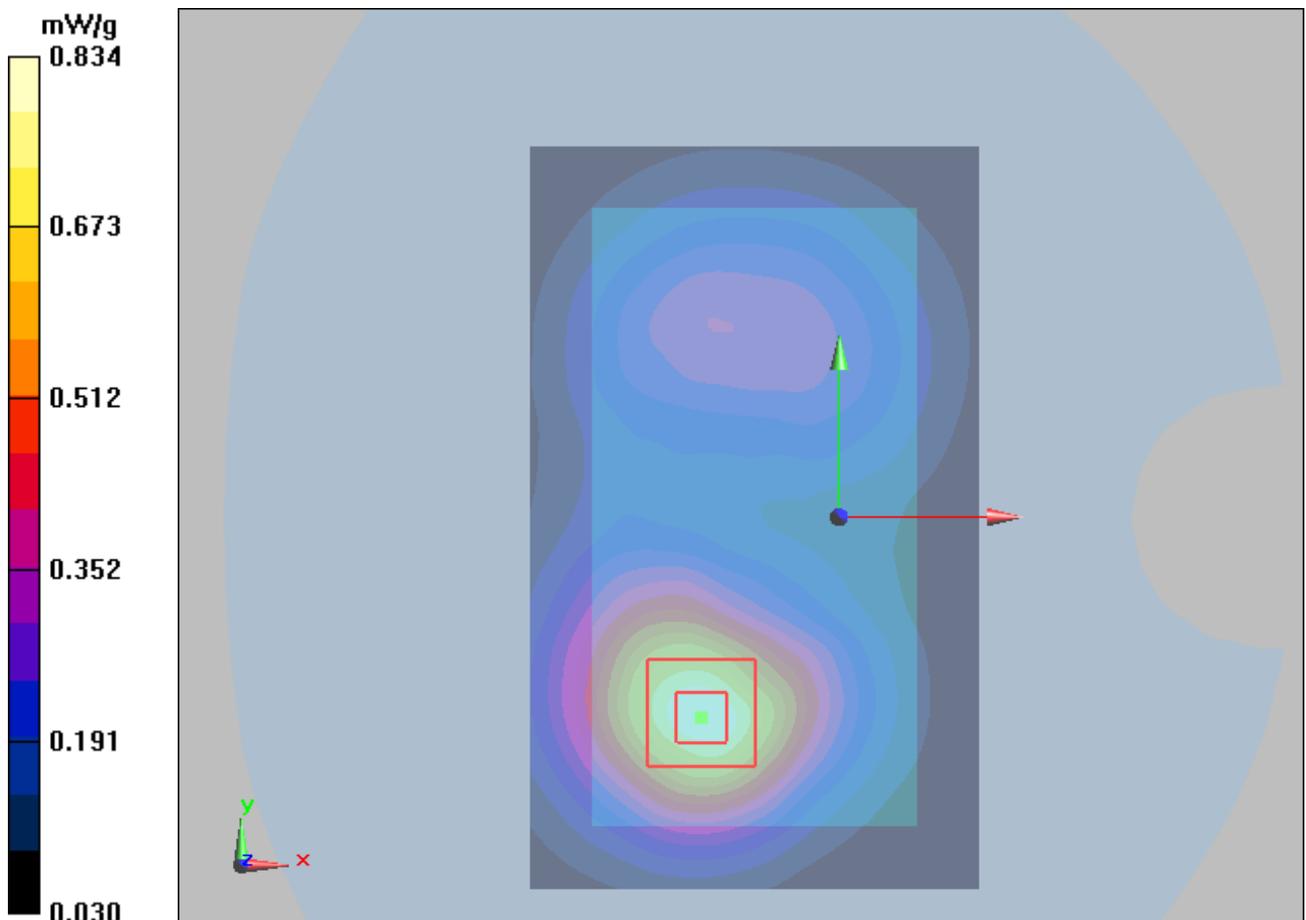


Figure 218 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM)

Date/Time: 10/12/2012 11:45:28 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.630 mW/g

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

Reference Value = 8.86 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 0.896 W/kg

SAR(1 g) = 0.572 mW/g; SAR(10 g) = 0.358 mW/g

Maximum value of SAR (measured) = 0.604 mW/g

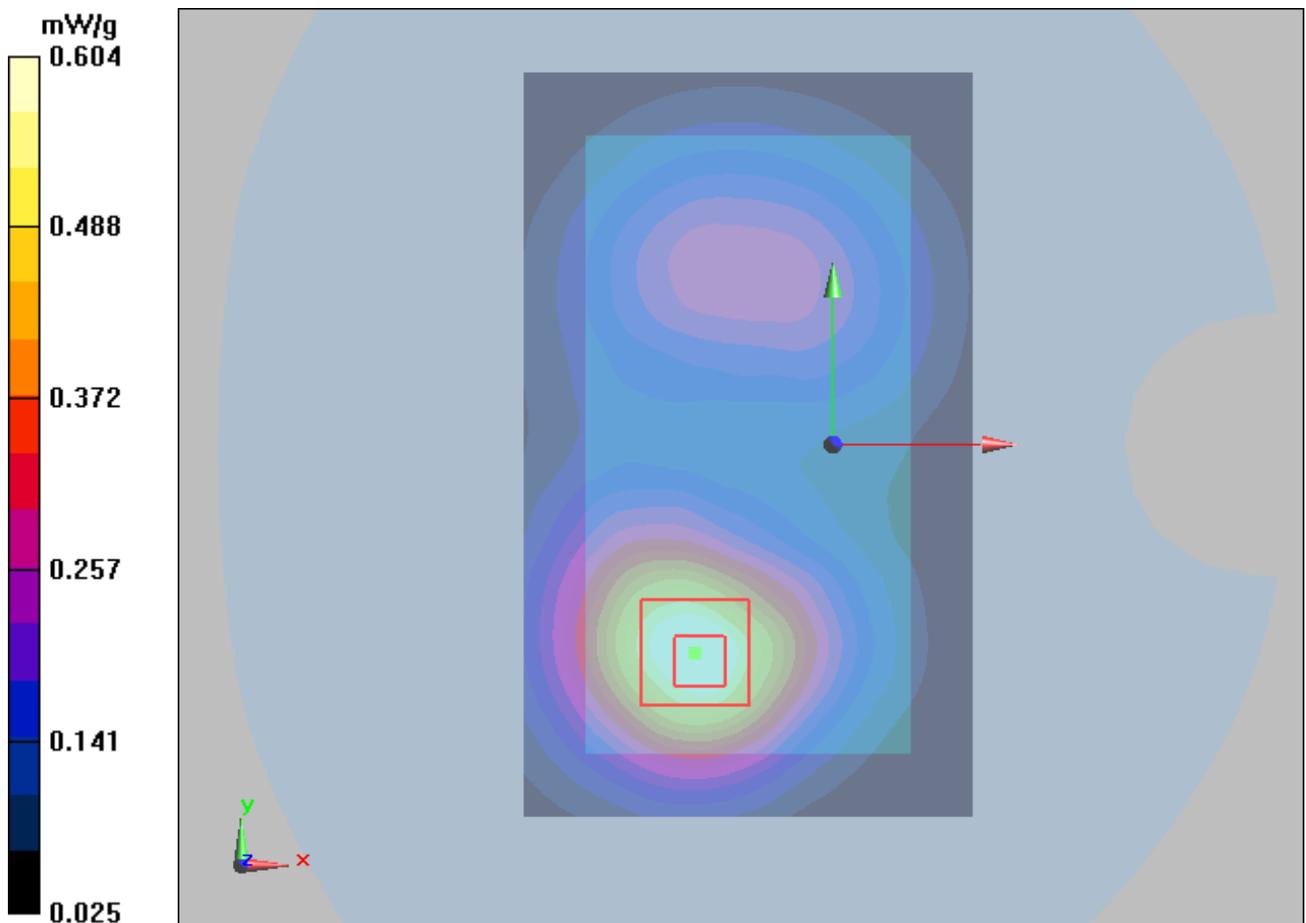


Figure 219 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM, Low end)

Date/Time: 10/12/2012 11:03:52 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.647 mW/g

Back Side Middle(Low)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.82 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.891 W/kg

SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.359 mW/g

Maximum value of SAR (measured) = 0.619 mW/g

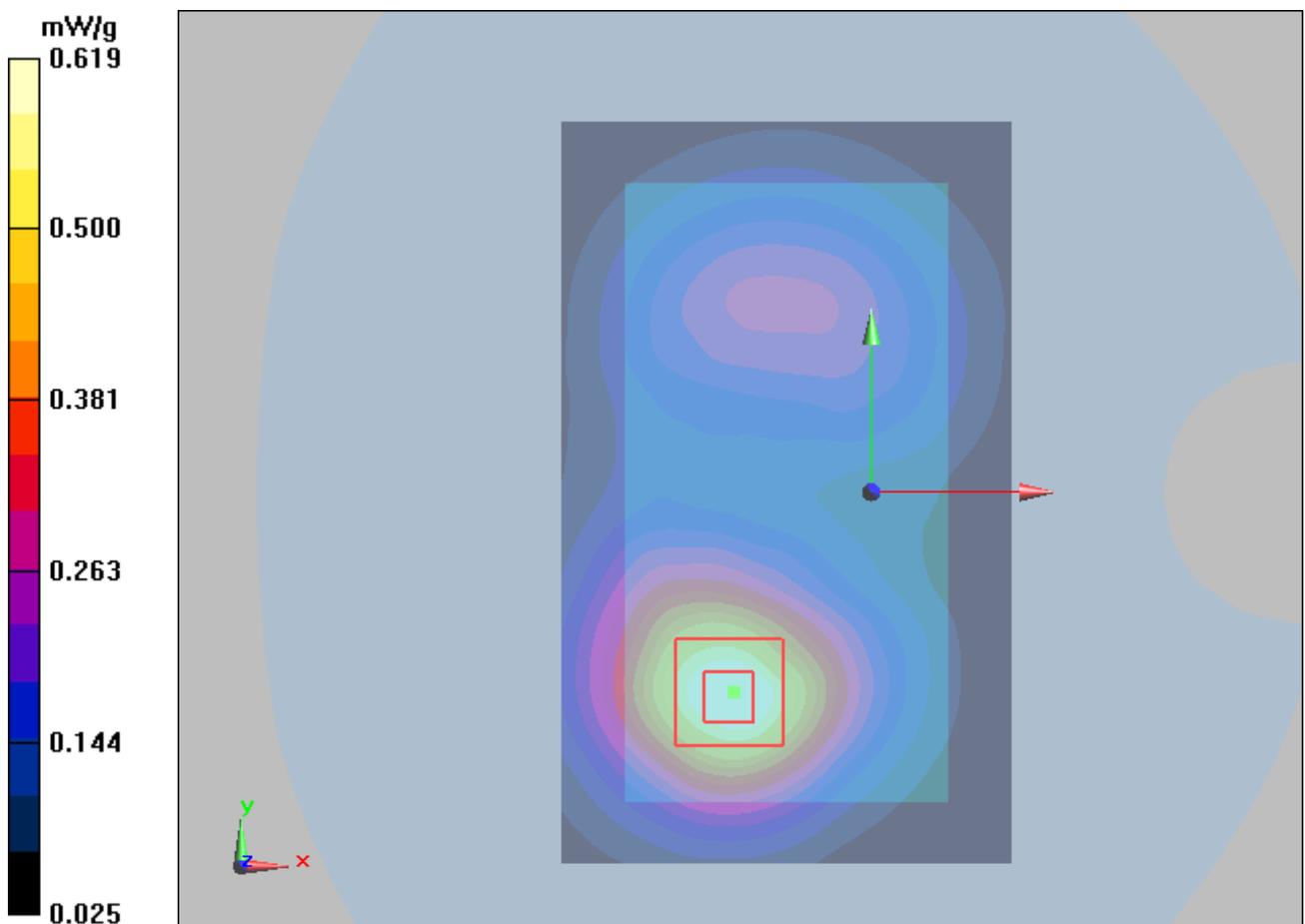


Figure 220 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 15mm, 16QAM, High end)

Date/Time: 10/12/2012 10:47:30 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.646 mW/g

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

Reference Value = 8.92 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.888 W/kg

SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.363 mW/g

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

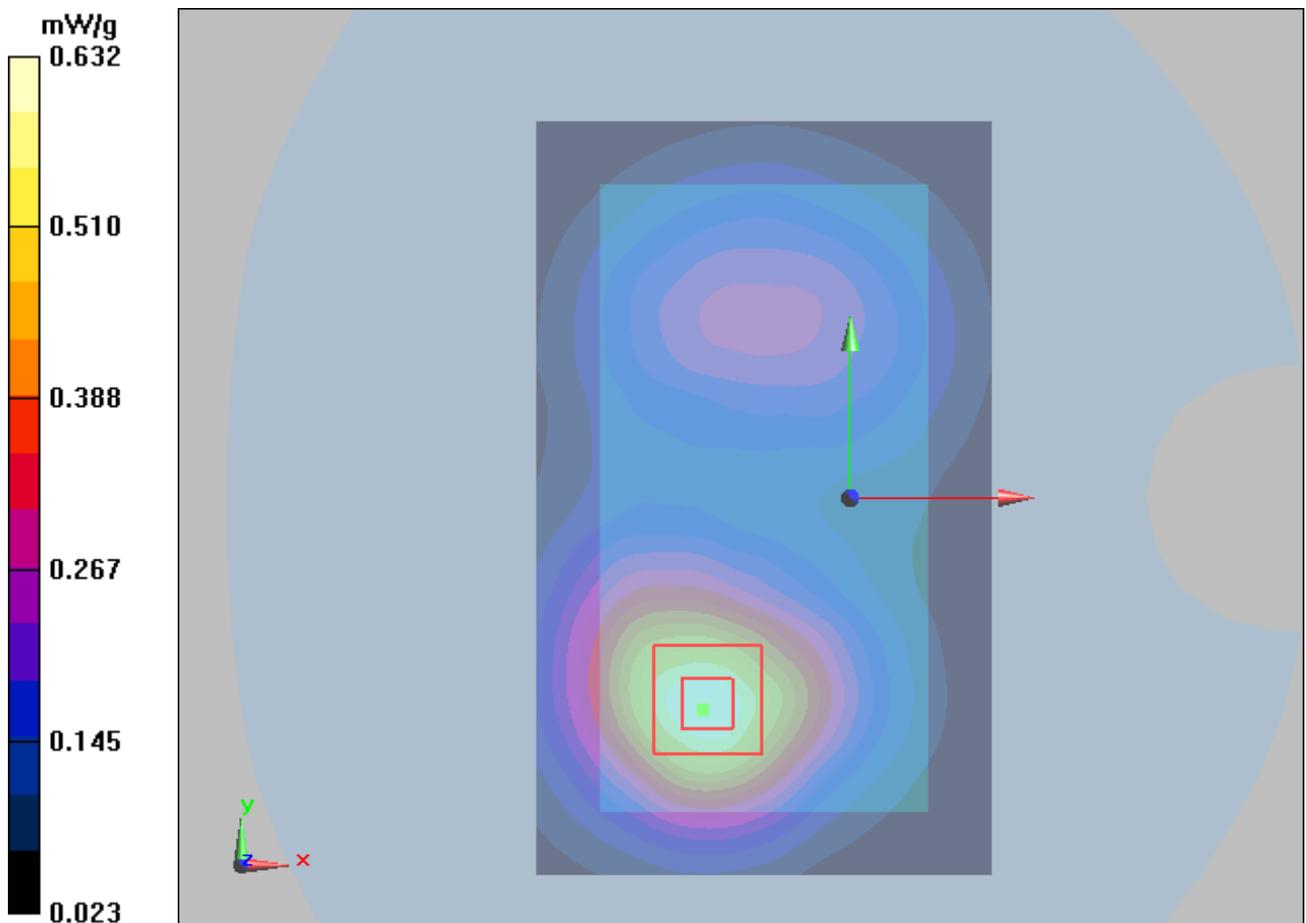


Figure 221 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SN: MAIC702X03600810, Distance 15mm, QPSK, High end)

Date/Time: 10/12/2012 9:00:39 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.785 mW/g

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

Reference Value = 10 V/m; Power Drift = 0.110 dB

Peak SAR (extrapolated) = 1.1 W/kg

SAR(1 g) = 0.706 mW/g; SAR(10 g) = 0.443 mW/g

Maximum value of SAR (measured) = 0.759 mW/g

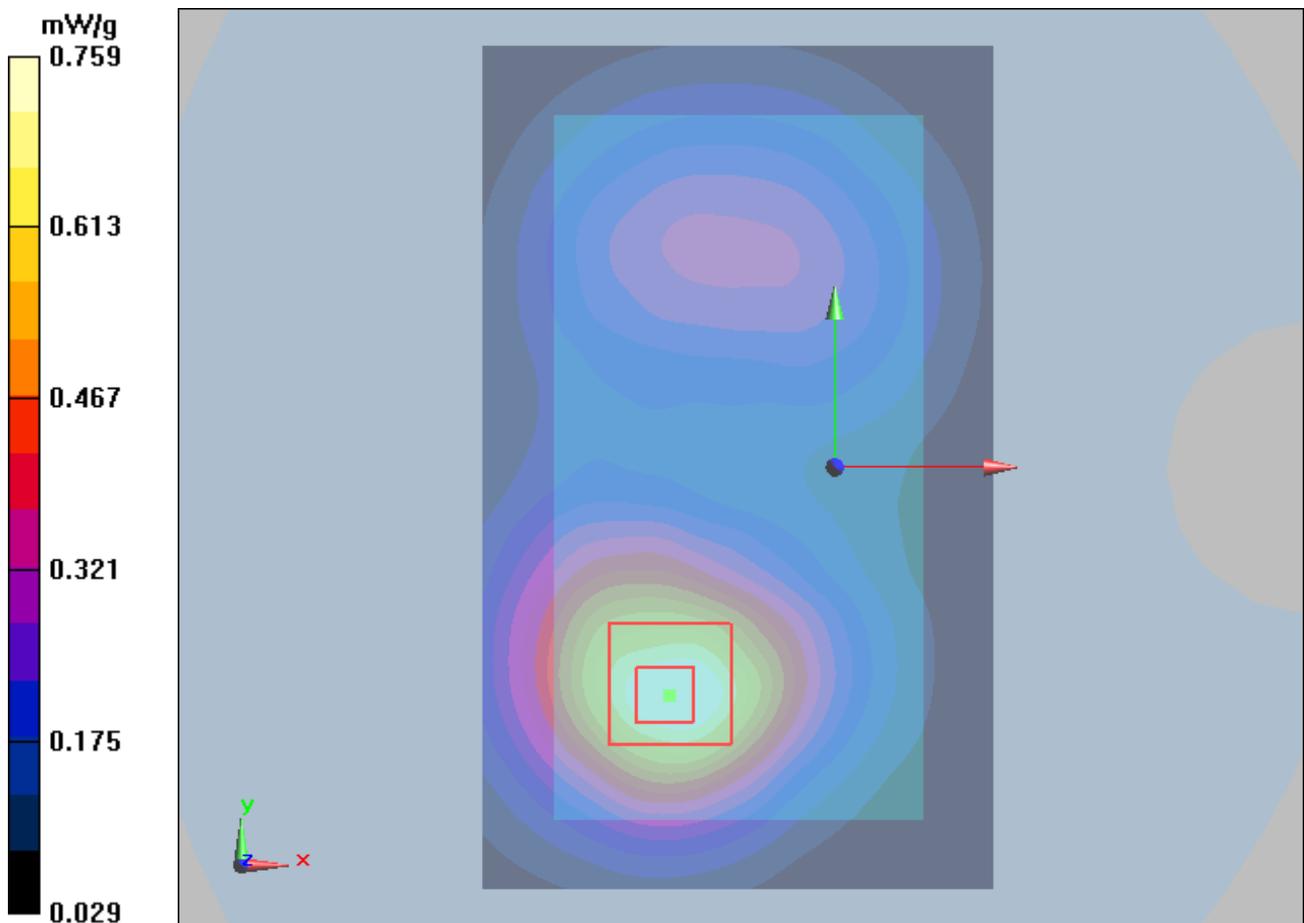


Figure 222 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side High (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK)

Date/Time: 11/26/2012 2:39:51 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.45 mW/g

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

Reference Value = 11.9 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.686 mW/g

Maximum value of SAR (measured) = 1.22 mW/g

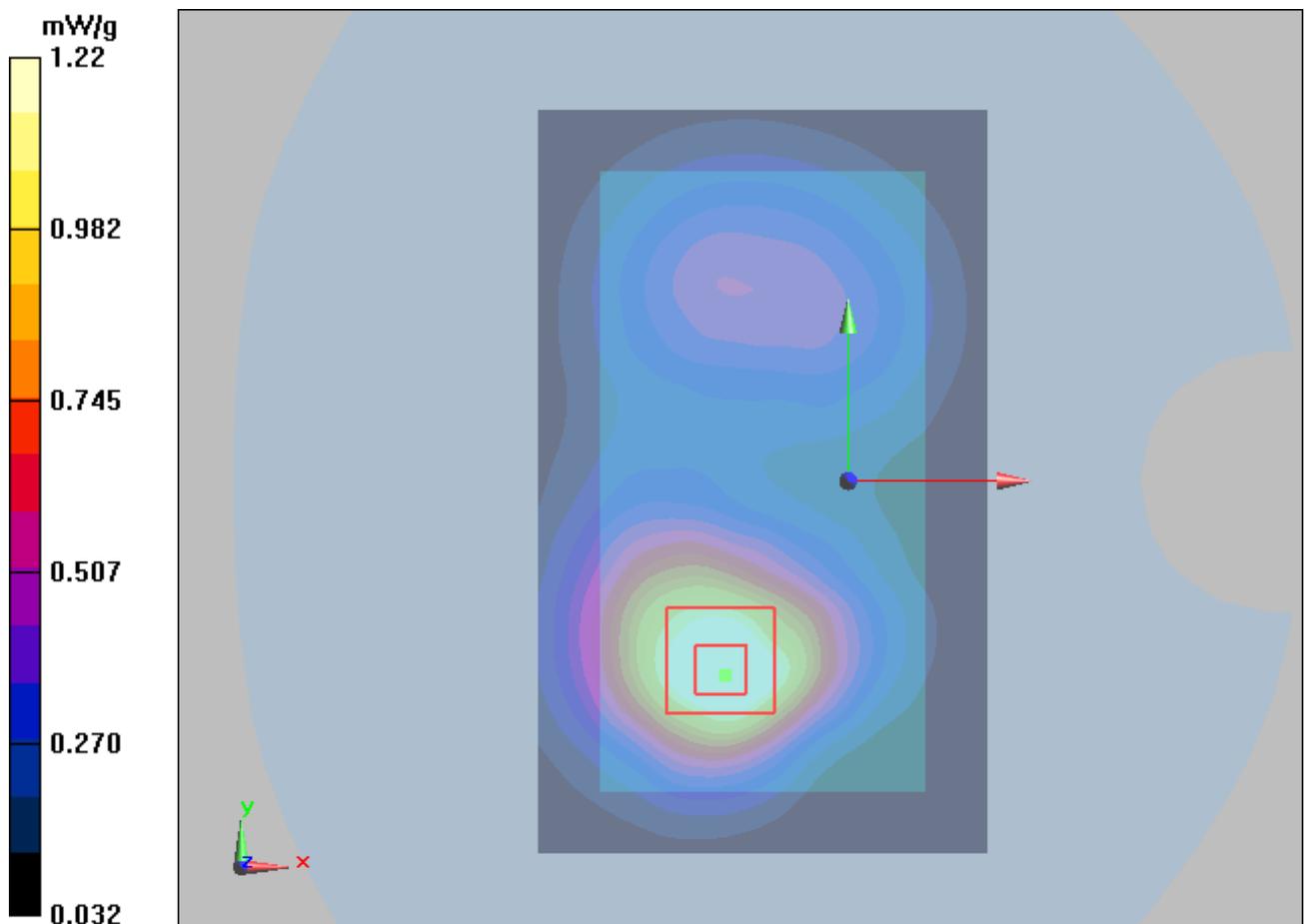


Figure 223 Body, LTE Band 4 with 50% RB Back Side Channel 20393

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LTE Band 4 with 50% RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm, QPSK)

Date/Time: 11/26/2012 1:39:47 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.42 mW/g

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

Reference Value = 12.3 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.755 mW/g

Maximum value of SAR (measured) = 1.33 mW/g

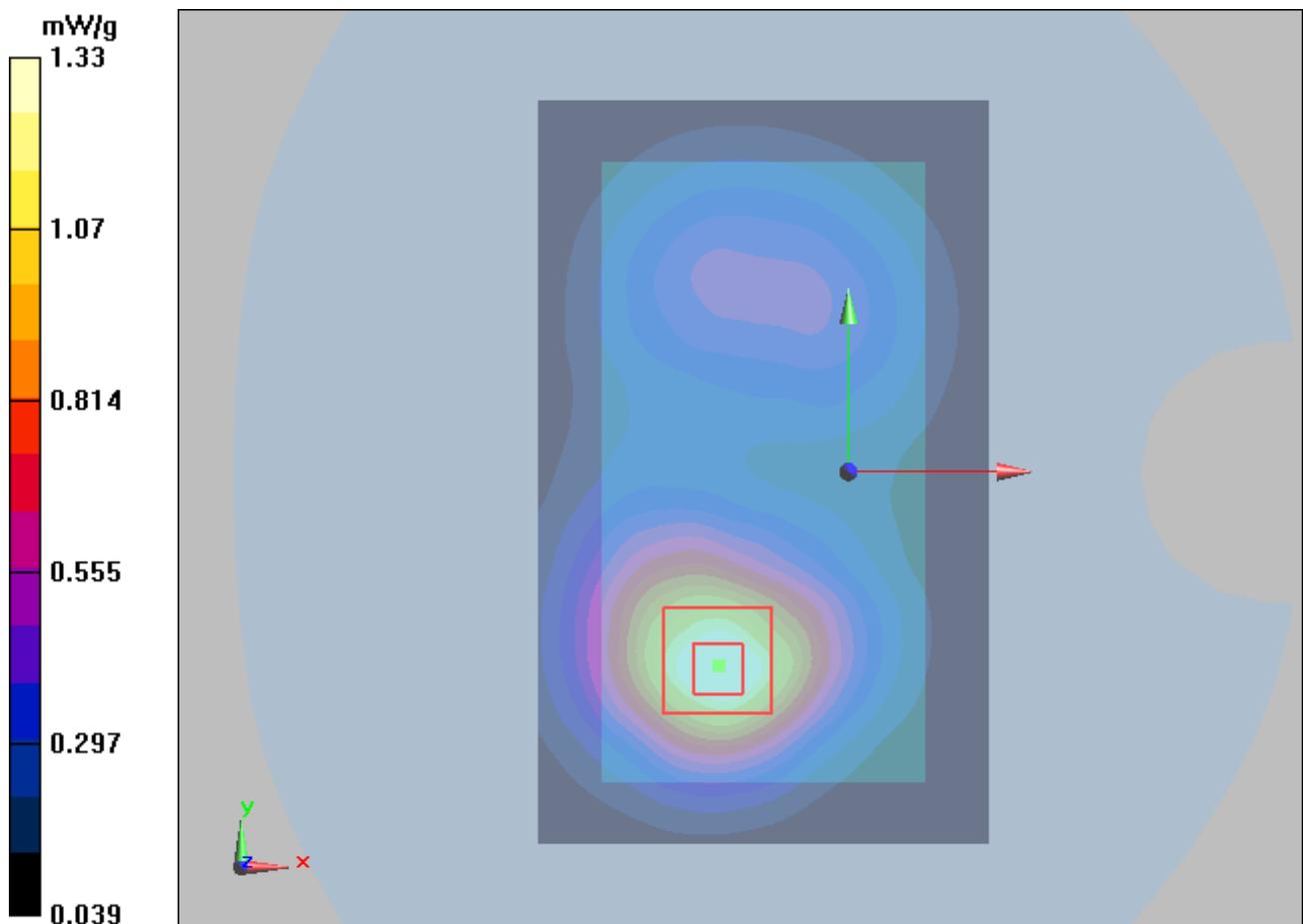


Figure 224 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side Low (1.4MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm, QPSK)

Date/Time: 11/26/2012 2:58:59 PM

Communication System: LTE; Frequency: 1710.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1710.7$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.27 mW/g

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

Reference Value = 12.4 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.686 mW/g

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

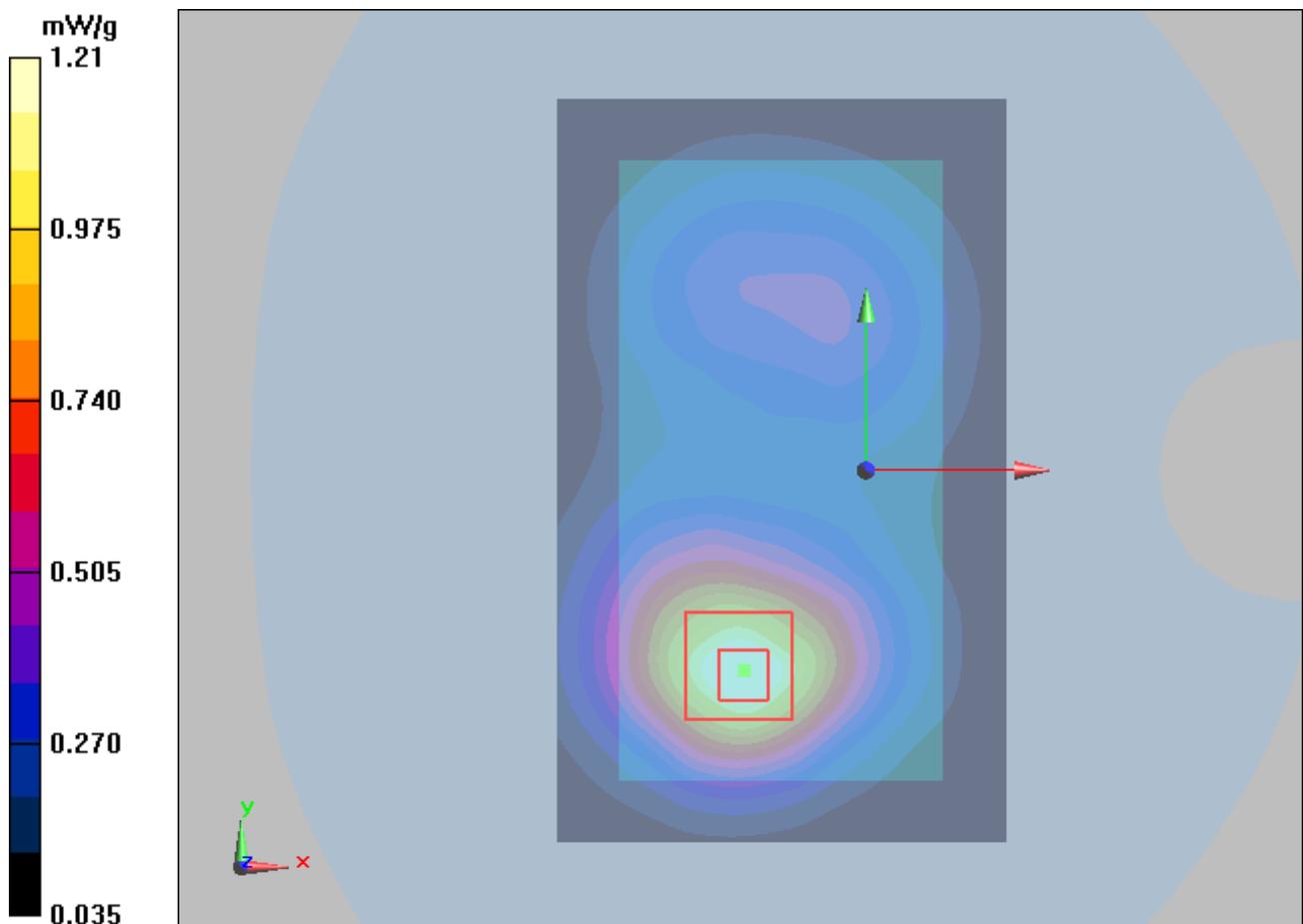


Figure 225 Body, LTE Band 4 with 50% RB Back Side Channel 19957

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LTE Band 4 with 50% RB Front Side High (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK)

Date/Time: 11/26/2012 3:41:13 PM

Communication System: LTE; Frequency: 1754.3 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1754.3$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.1 mW/g

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

Reference Value = 11 V/m; Power Drift = -0.149 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.602 mW/g

Maximum value of SAR (measured) = 1 mW/g

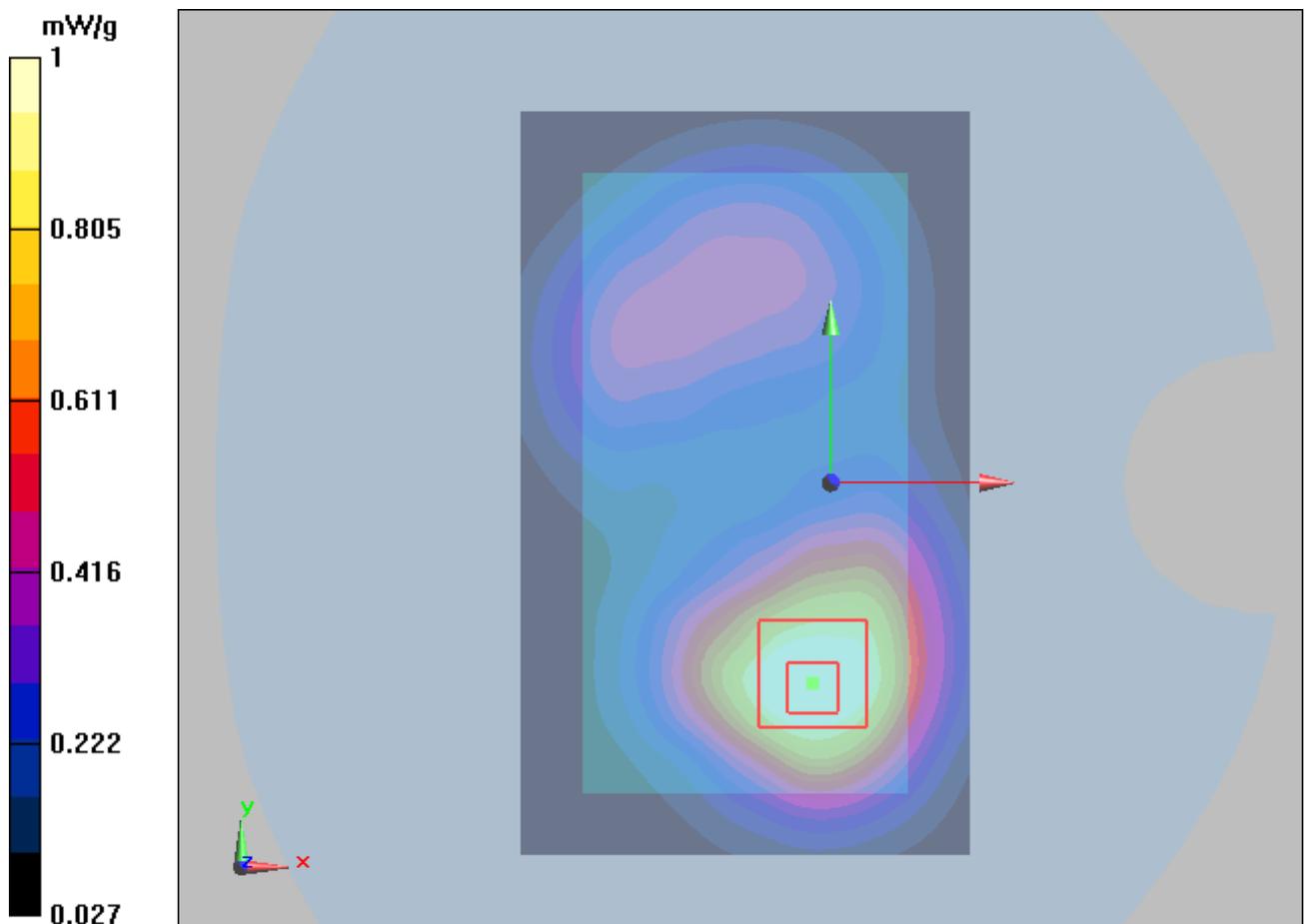


Figure 226 Body, LTE Band 4 with 50% RB front Side Channel 20393

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LTE Band 4 with 50% RB Front Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK)

Date/Time: 11/26/2012 3:19:55 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 mW/g

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

Reference Value = 11.7 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.910 mW/g; SAR(10 g) = 0.578 mW/g

Maximum value of SAR (measured) = 0.979 mW/g

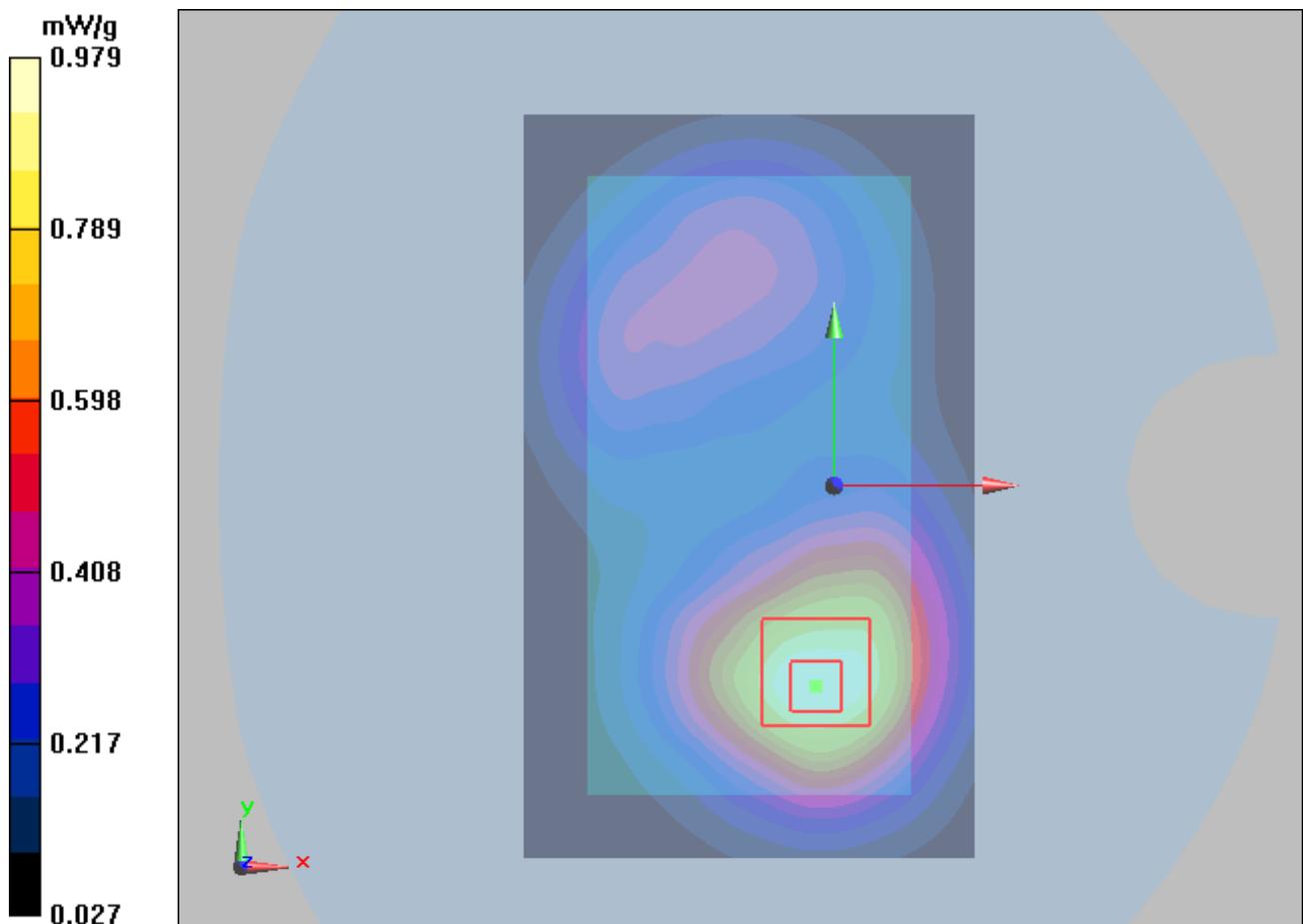


Figure 227 Body, LTE Band 4 with 50% RB front Side Channel 20175

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LTE Band 4 with 50% RB Front Side Low (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK)

Date/Time: 11/26/2012 4:00:13 PM

Communication System: LTE; Frequency: 1710.7 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1710.7$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Front Side Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.899 mW/g

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

Reference Value = 11.3 V/m; Power Drift = -0.195 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.807 mW/g; SAR(10 g) = 0.516 mW/g

Maximum value of SAR (measured) = 0.860 mW/g

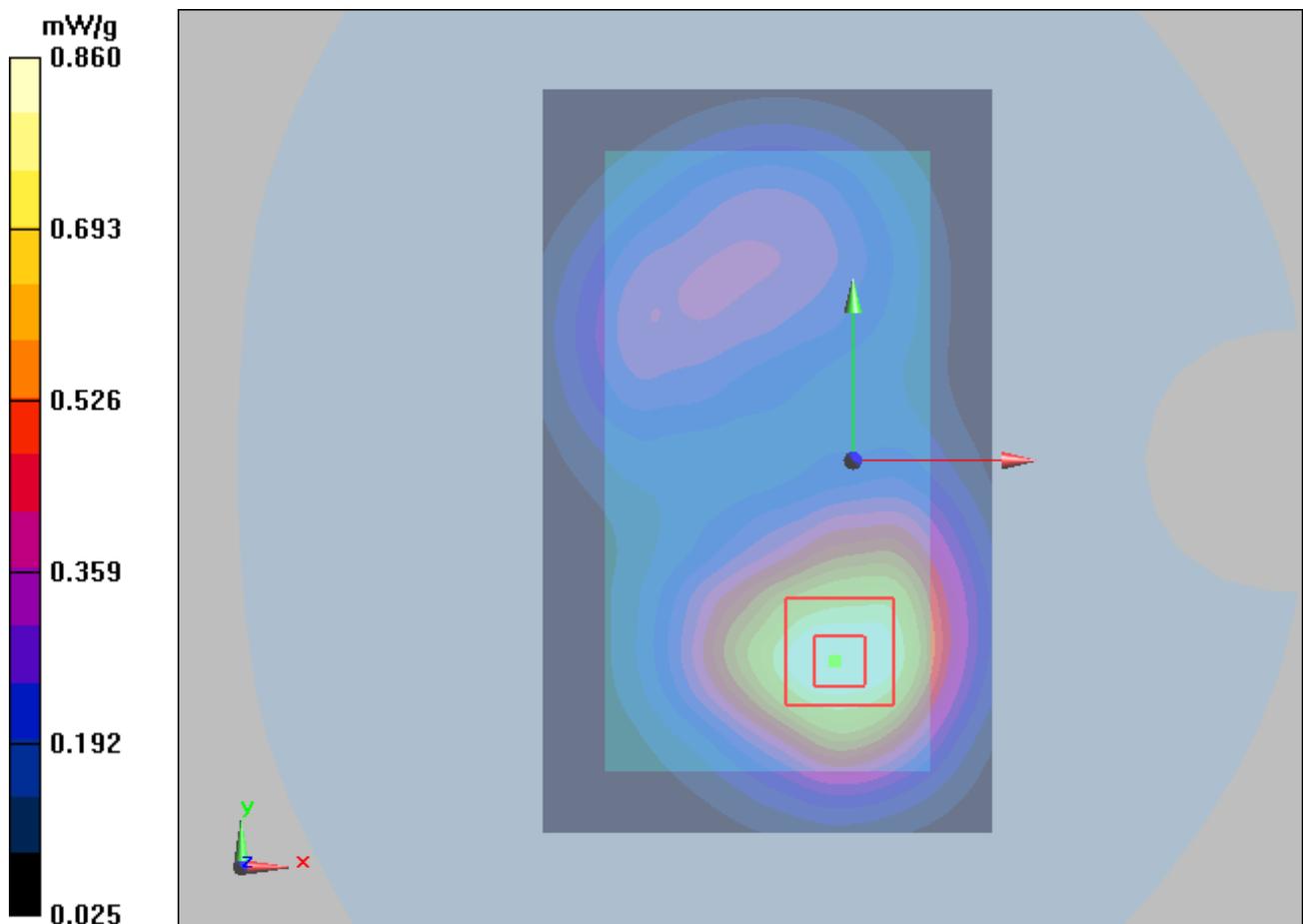


Figure 228 Body, LTE Band 4 with 50% RB front Side Channel 19957

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LTE Band 4 with 50% RB Right Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK)

Date/Time: 11/26/2012 4:33:47 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Right Side Middle/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.710 mW/g

Right Side Middle/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = -0.00843 dB

Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.486 mW/g; SAR(10 g) = 0.298 mW/g

Maximum value of SAR (measured) = 0.529 mW/g

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

Reference Value = 16.3 V/m; Power Drift = -0.00843 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.627 mW/g; SAR(10 g) = 0.368 mW/g

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

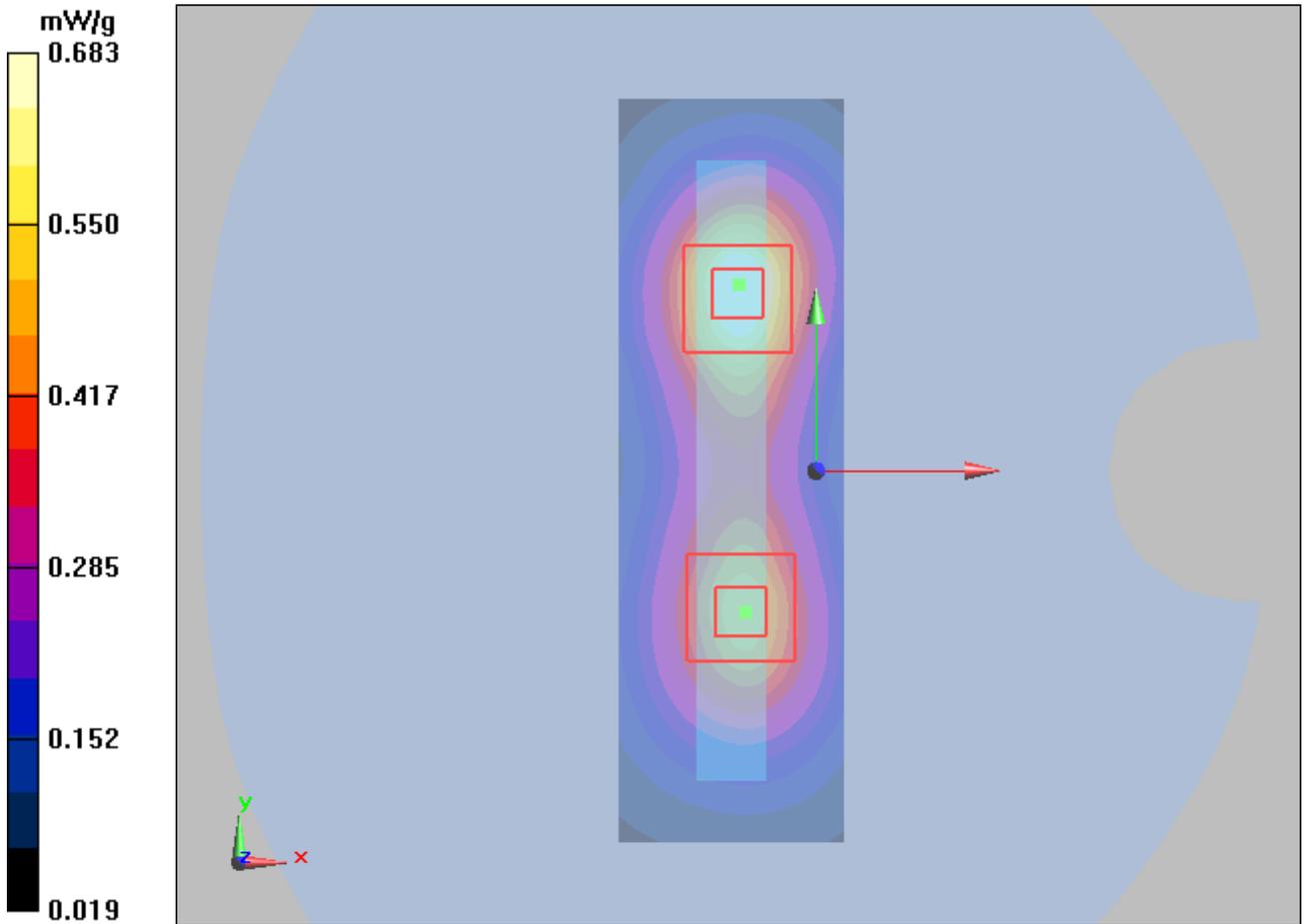


Figure 229 Body, LTE Band 4 with 50% RB front Side Channel 20175

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LTE Band 4 with 50% RB Bottom Side Middle (1.4MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm, QPSK)

Date/Time: 11/26/2012 4:21:32 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Bottom Side Middle/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.230 mW/g

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

Reference Value = 12.2 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.214 mW/g

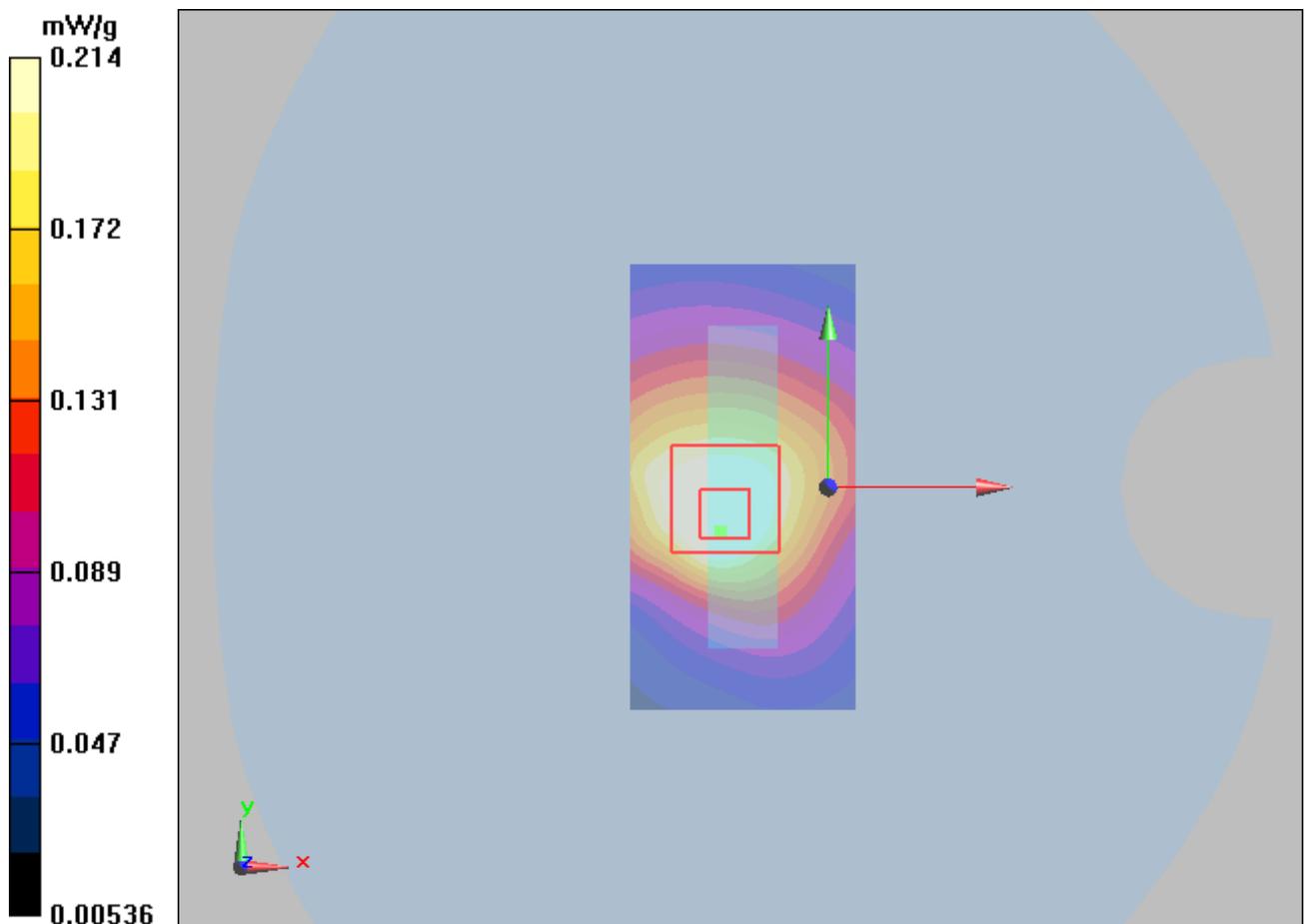


Figure 230 Body, LTE Band 4 with 50% RB front Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBGN01407, Distance 10mm, QPSK, Low end)

Date/Time: 11/26/2012 2:14:56 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.4 mW/g

Back Side Middle(Low)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.754 mW/g

Maximum value of SAR (measured) = 1.33 mW/g

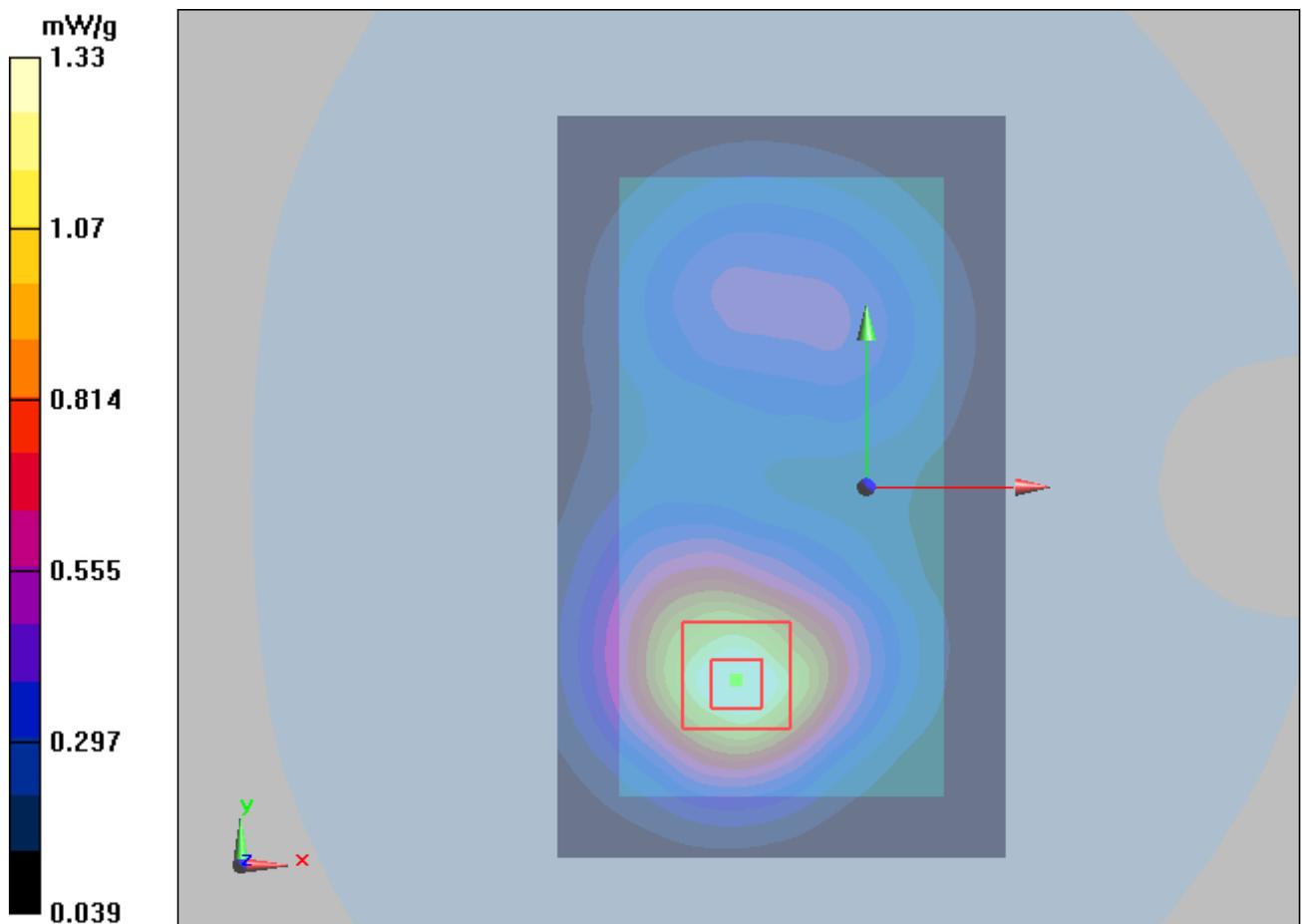


Figure 231 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SVLTE, SN: UWDC320XBG01407, Distance 10mm, QPSK, High end)

Date/Time: 11/26/2012 1:59:06 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.42 mW/g

Back Side Middle(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.757 mW/g

Maximum value of SAR (measured) = 1.33 mW/g

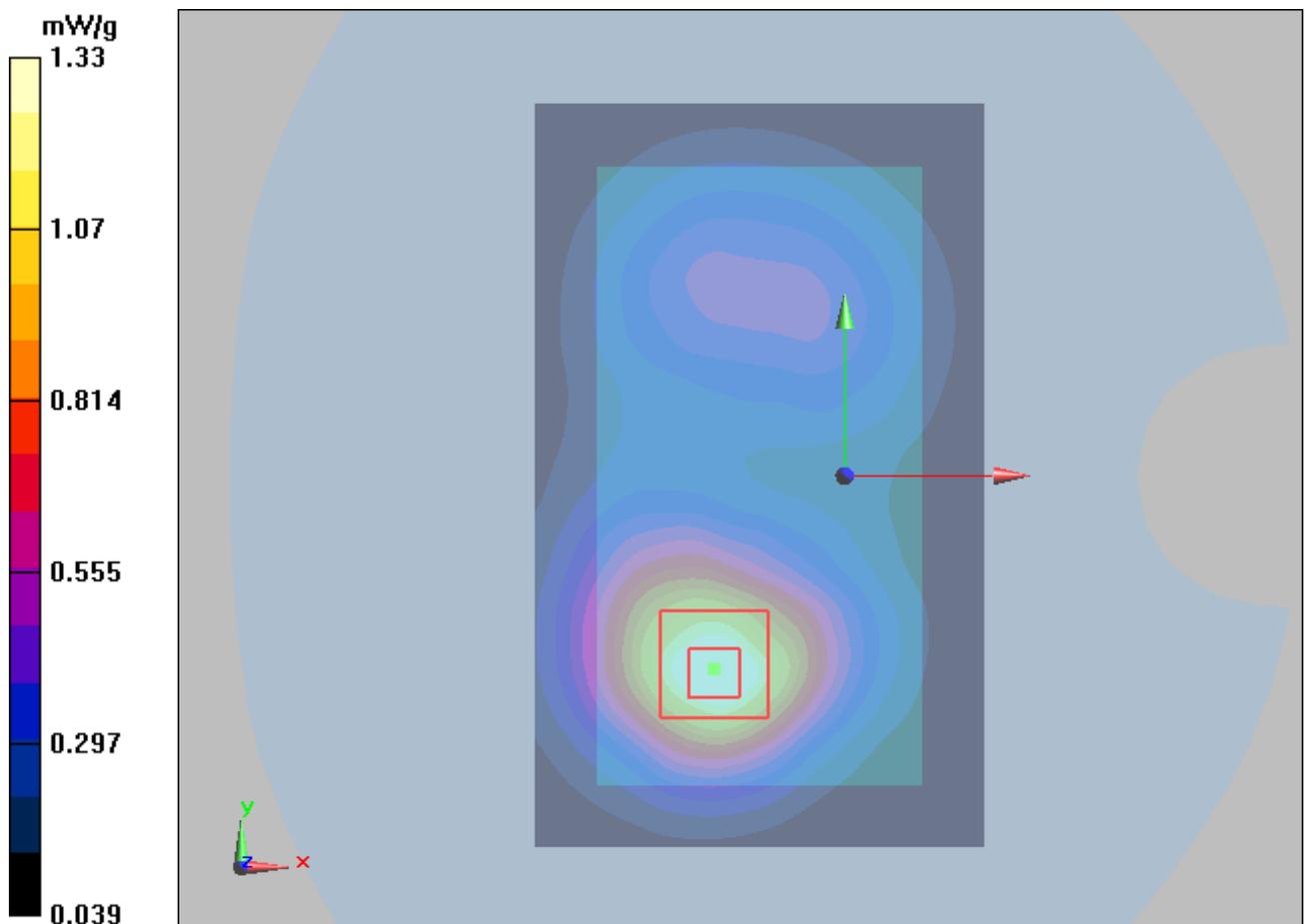


Figure 232 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 50% RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM)

Date/Time: 11/26/2012 4:57:11 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.15 mW/g

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

Reference Value = 11.1 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.613 mW/g

Maximum value of SAR (measured) = 1.08 mW/g

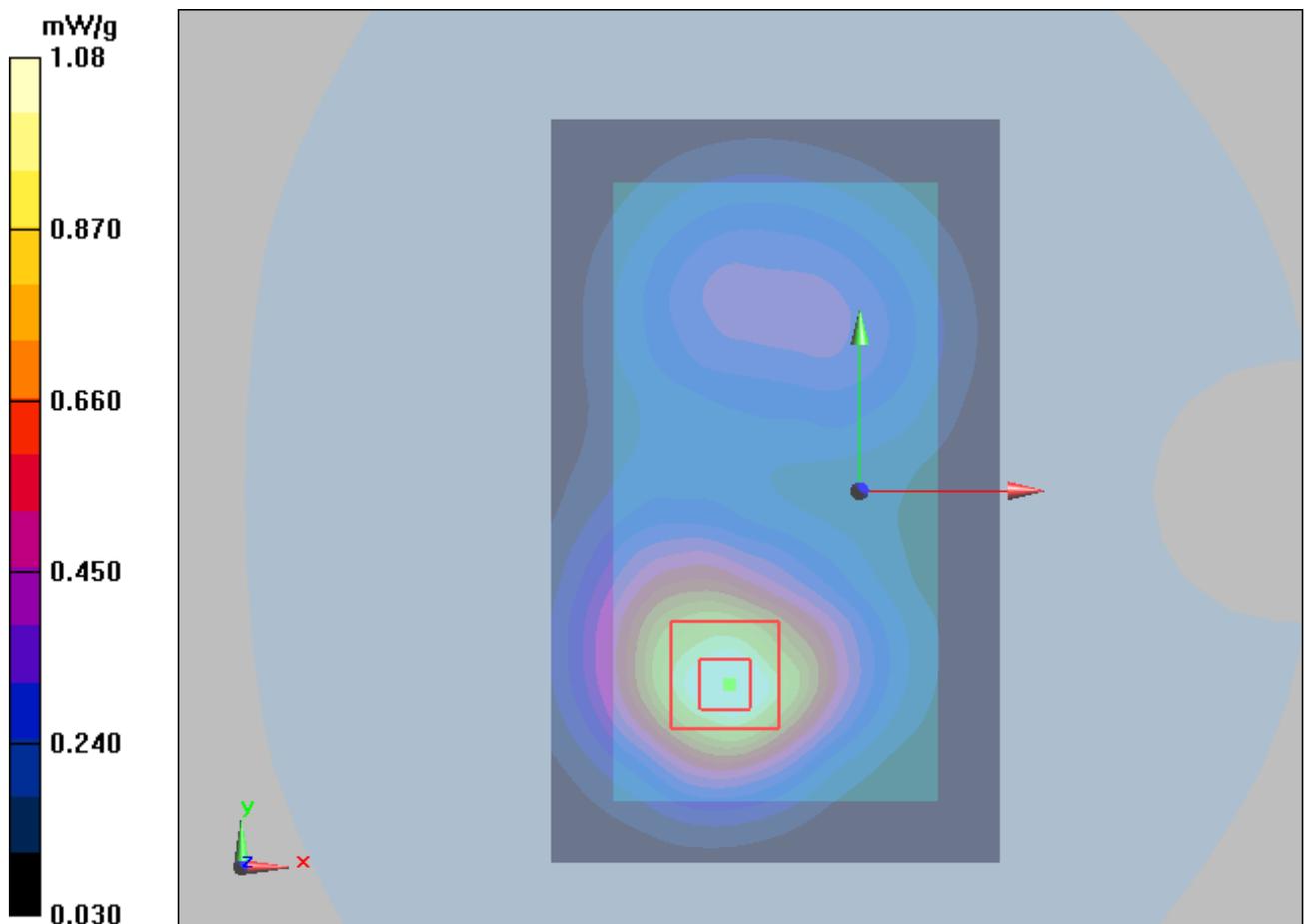


Figure 233 Body, LTE Band 4 with 50% RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, Low end)

Date/Time: 11/26/2012 5:27:54 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(Low)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 mW/g

Back Side Middle(Low)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.977 mW/g; SAR(10 g) = 0.597 mW/g

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

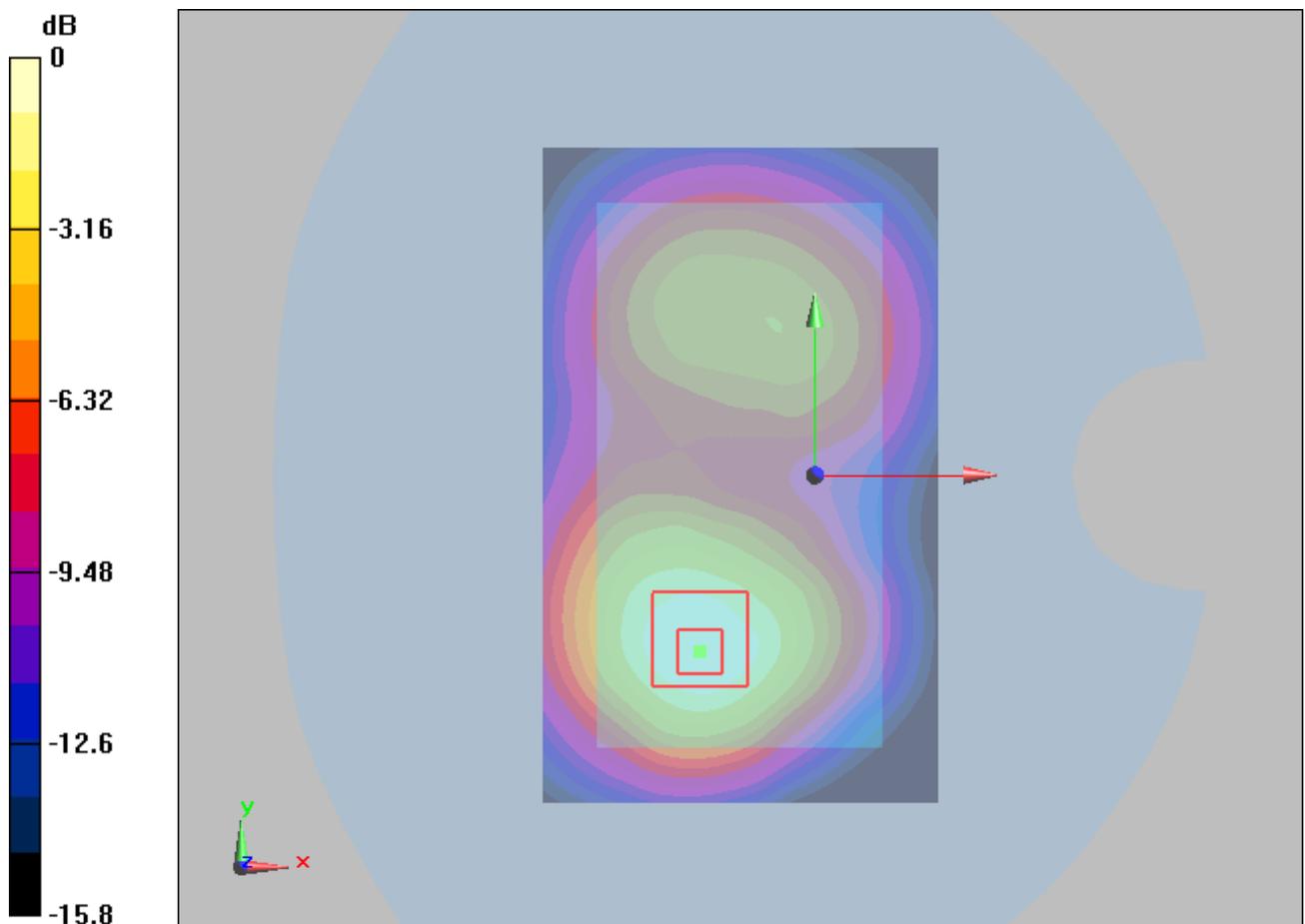


Figure 234 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SN: UWDC320XBGN01407, Distance 10mm, 16QAM, High end)

Date/Time: 11/26/2012 5:43:53 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 mW/g

Back Side Middle(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.987 mW/g; SAR(10 g) = 0.601 mW/g

Maximum value of SAR (measured) = 1.07 mW/g

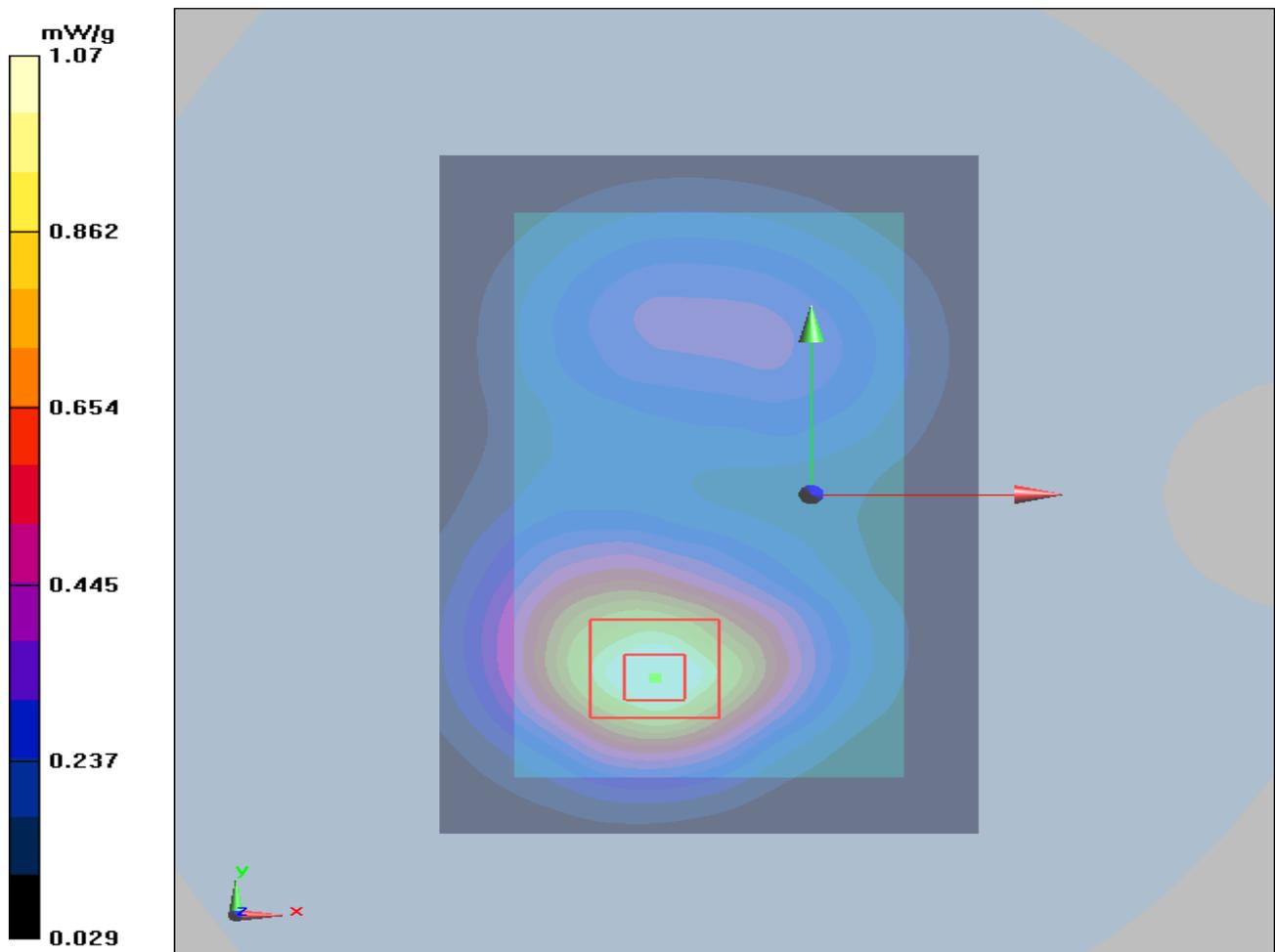


Figure 235 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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LTE Band 4 with 1 RB Back Side Middle (1.4MHz, SN: MAIC702X03600810, Distance 10mm, QPSK, High end)

Date/Time: 11/26/2012 6:21:46 PM

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.65, 4.65, 4.65); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Back Side Middle(High)/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.41 mW/g

Back Side Middle(High)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.766 mW/g

Maximum value of SAR (measured) = 1.35 mW/g

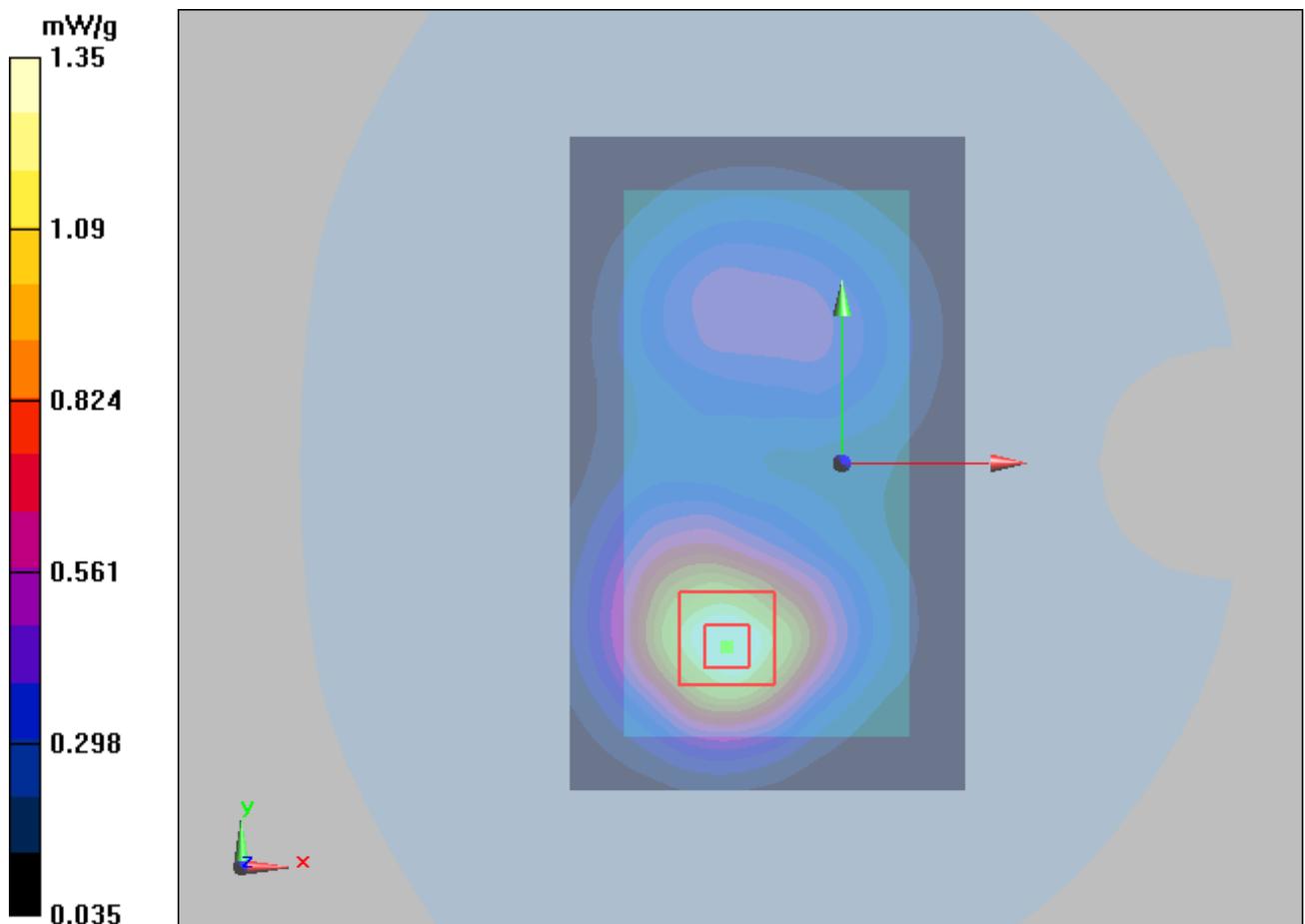


Figure 236 Body, LTE Band 4 with 1 RB Back Side Channel 20175

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802.11b Left Cheek High (Battery SN: UWDC320XBGN1407)

Date/Time: 10/8/2012 6:56:10 PM

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.14, 4.14, 4.14); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.126 mW/g

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

Reference Value = 3.42 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.057 mW/g

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

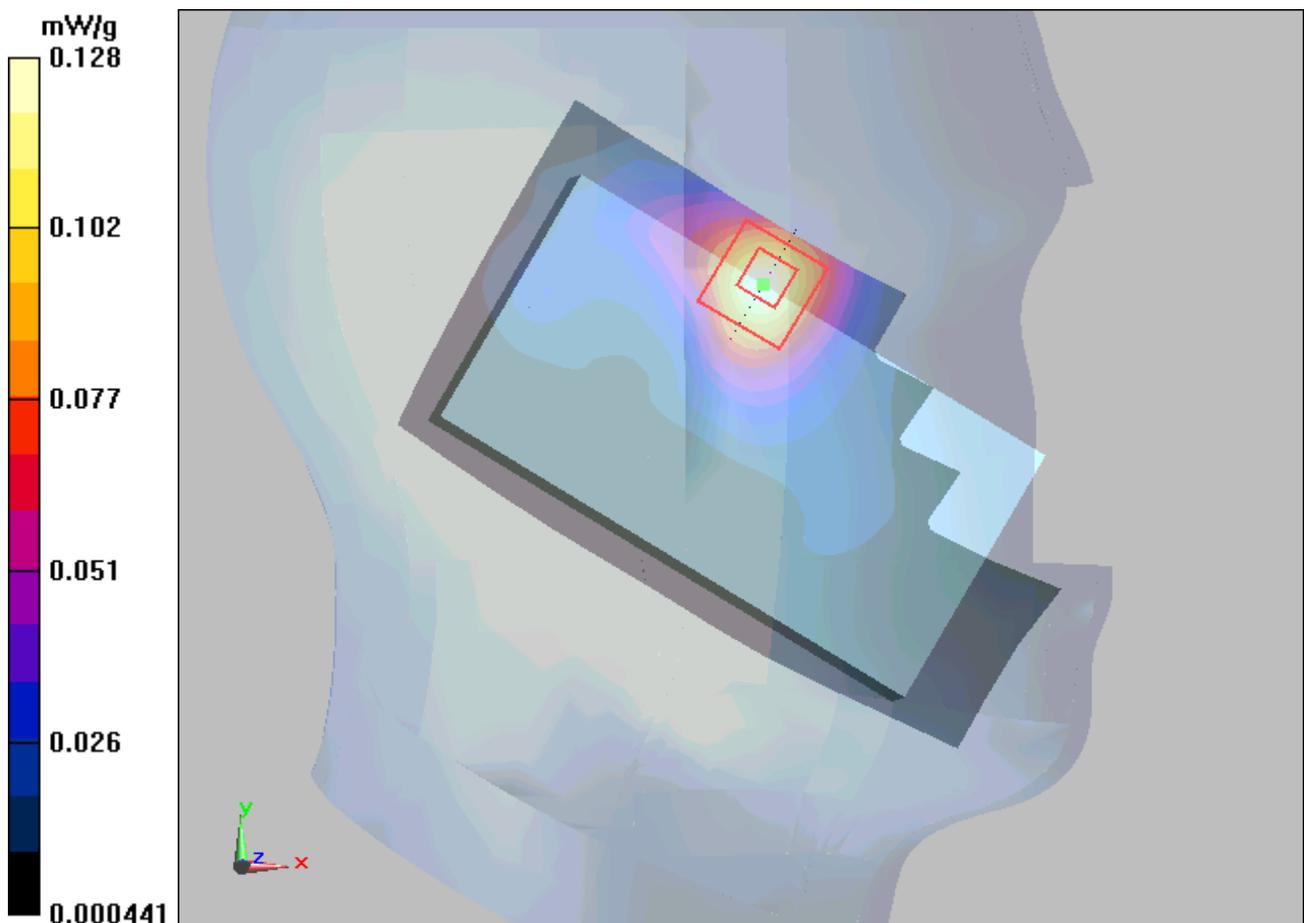


Figure 237 Left Hand Touch Cheek 802.11b Channel 11

TA Technology (Shanghai) Co., Ltd.
Test Report

802.11b Left Tilt High (Battery SN: UWDC320XBGN1407)

Date/Time: 10/8/2012 7:25:32 PM

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.14, 4.14, 4.14); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.065 mW/g

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

Reference Value = 5.88 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.112 W/kg

SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.027 mW/g

Maximum value of SAR (measured) = 0.062 mW/g

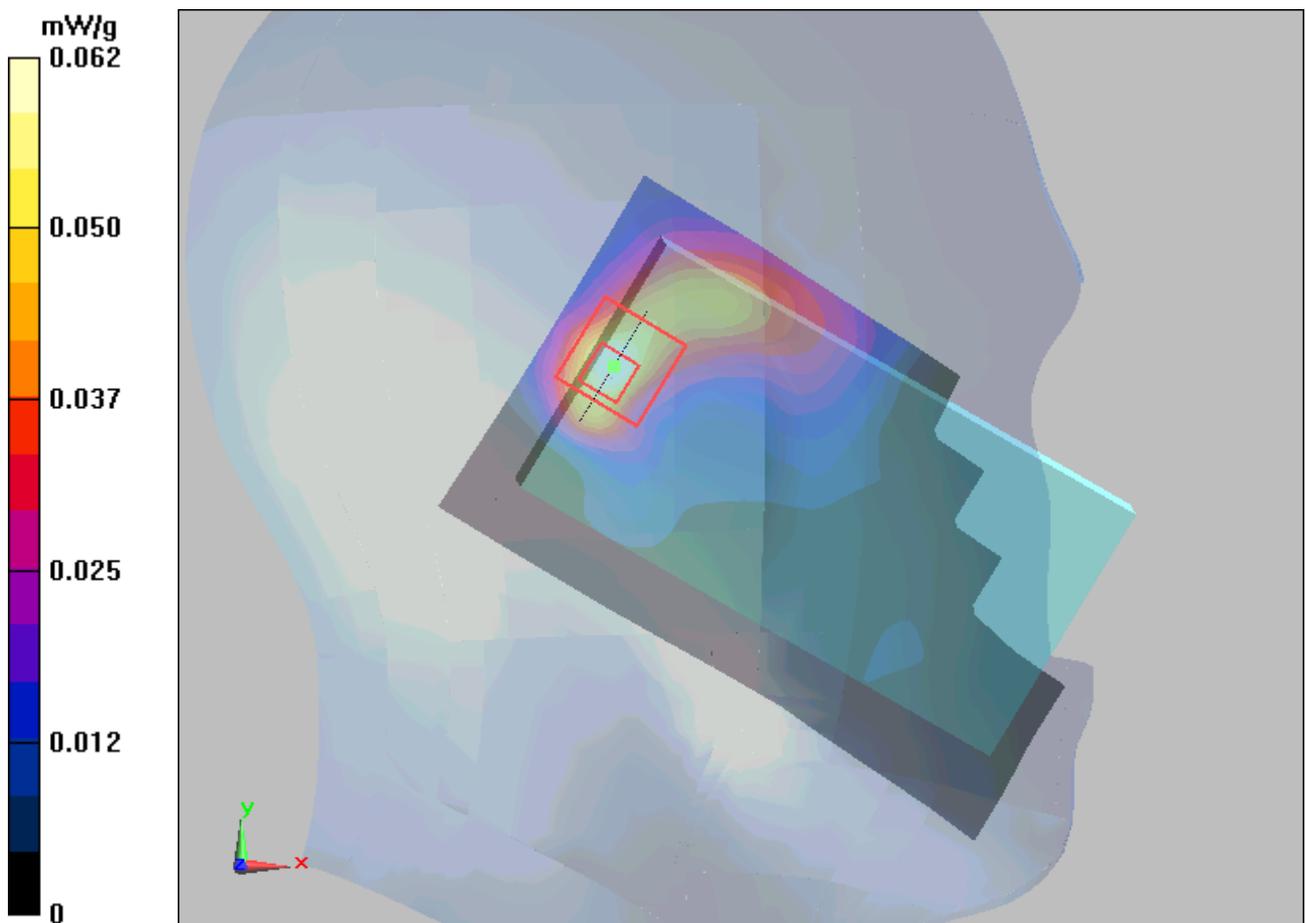


Figure 238 Left Hand Tilt 15° 802.11b Channel 11

TA Technology (Shanghai) Co., Ltd.
Test Report

802.11b Right Cheek High (Battery SN: UWDC320XBGN1407)

Date/Time: 10/8/2012 5:59:31 PM

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.14, 4.14, 4.14); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.149 mW/g

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

Reference Value = 4.88 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.289 W/kg

SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.067 mW/g

Maximum value of SAR (measured) = 0.149 mW/g

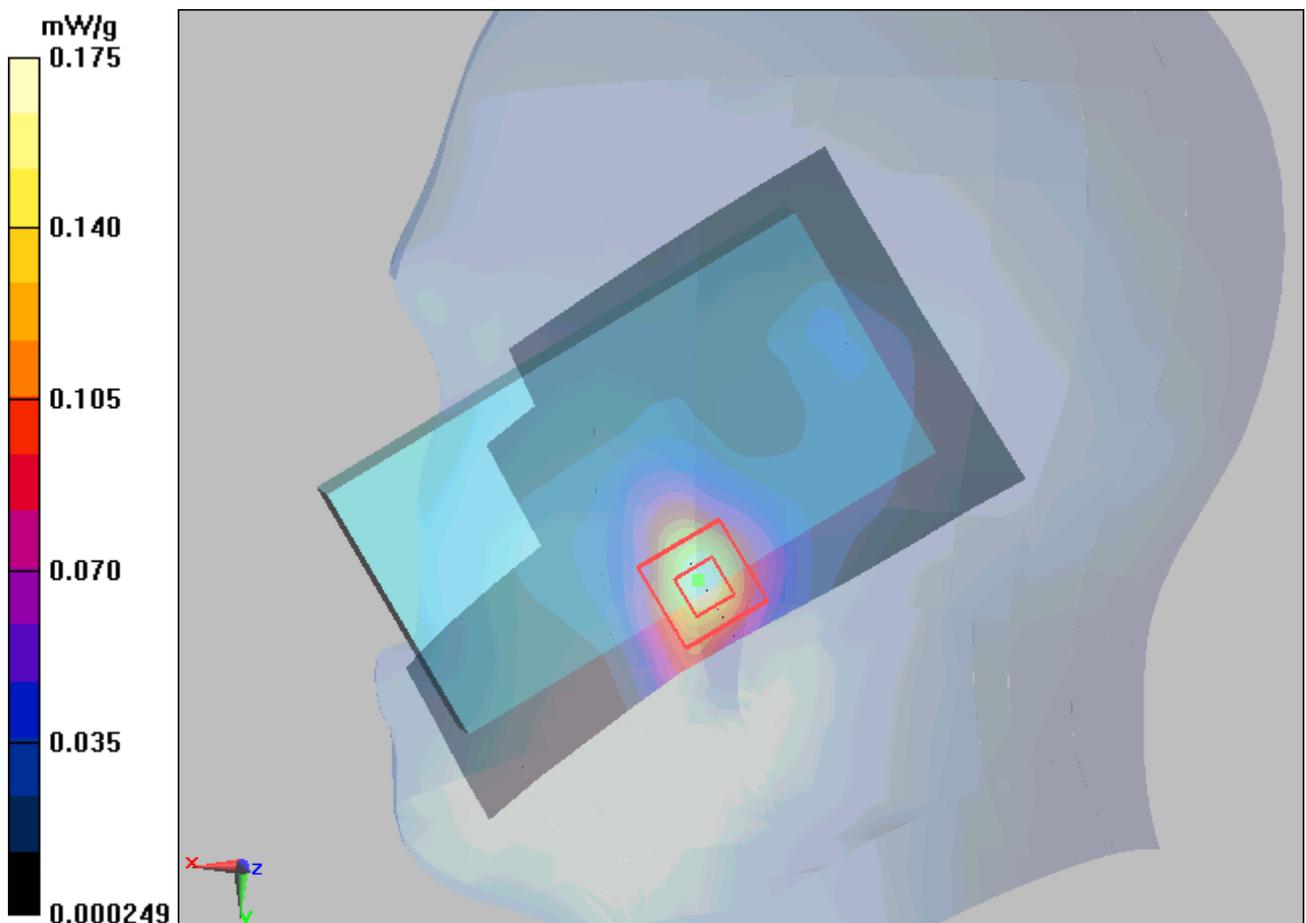


Figure 239 Right Hand Touch Cheek 802.11b Channel 11

TA Technology (Shanghai) Co., Ltd.
Test Report

Report No. RHA1304 -0041SAR01R1

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802.11b Right Tilt High (Battery SN: UWDC320XBGN1407)

Date/Time: 10/8/2012 6:27:54 PM

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.14, 4.14, 4.14); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Tilt High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.064 mW/g

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

Reference Value = 6.01 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.116 W/kg

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.027 mW/g

Maximum value of SAR (measured) = 0.066 mW/g

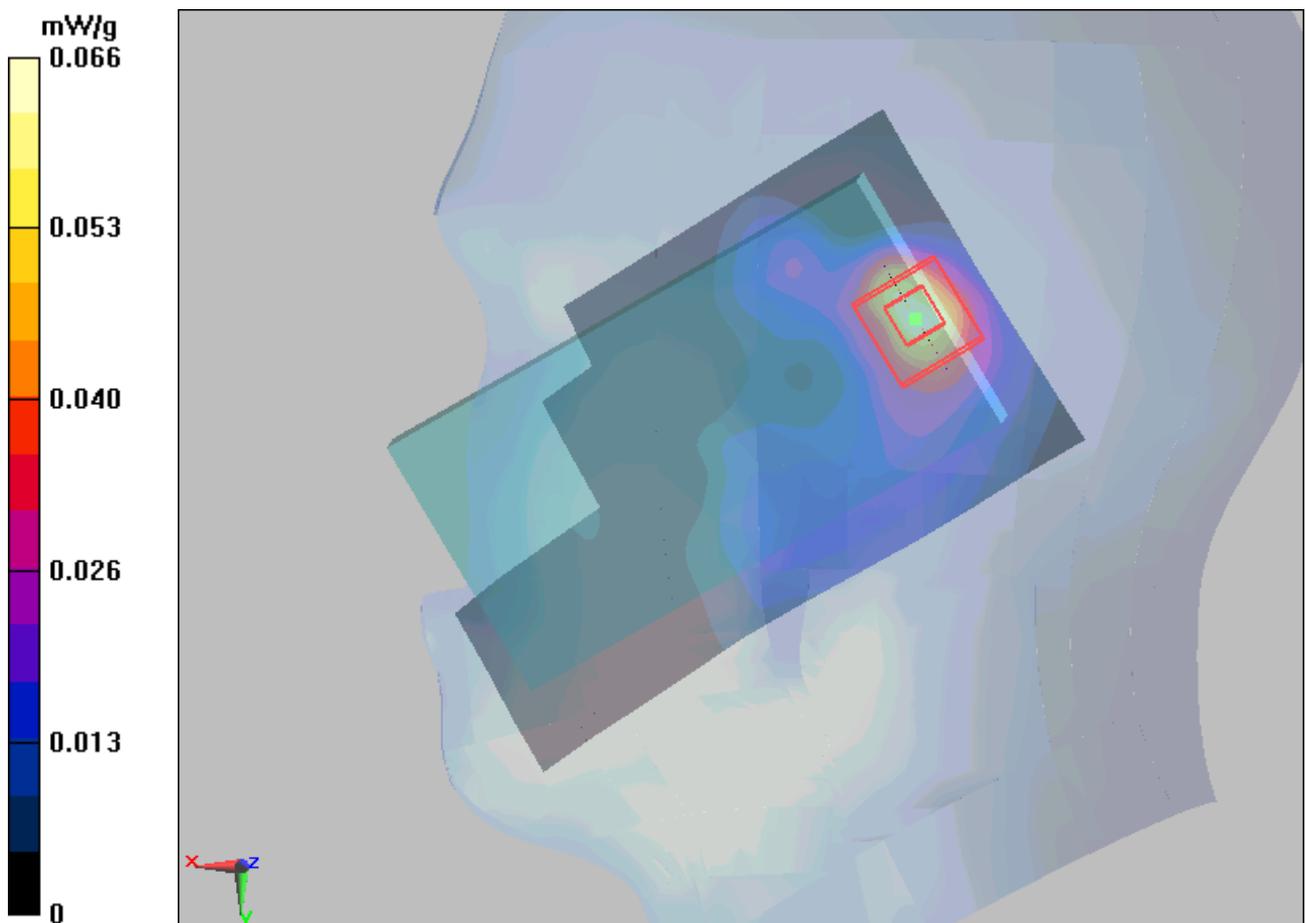


Figure 240 Right Hand Tilt 15° 802.11b Channel 11

TA Technology (Shanghai) Co., Ltd.
Test Report

Report No. RHA1304 -0041SAR01R1

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802.11b Right Cheek High (Battery SN: MAIC702X03600810)

Date/Time: 10/15/2012 12:36:15 PM

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3189; ConvF(4.14, 4.14, 4.14); Calibrated: 6/22/2012

Electronics: DAE4 Sn1317; Calibrated: 1/23/2012

Phantom: SAM2; Type: SAM; Serial: TP-1524

Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Cheek High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.169 mW/g

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

Reference Value = 5.09 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.076 mW/g

Maximum value of SAR (measured) = 0.169 mW/g

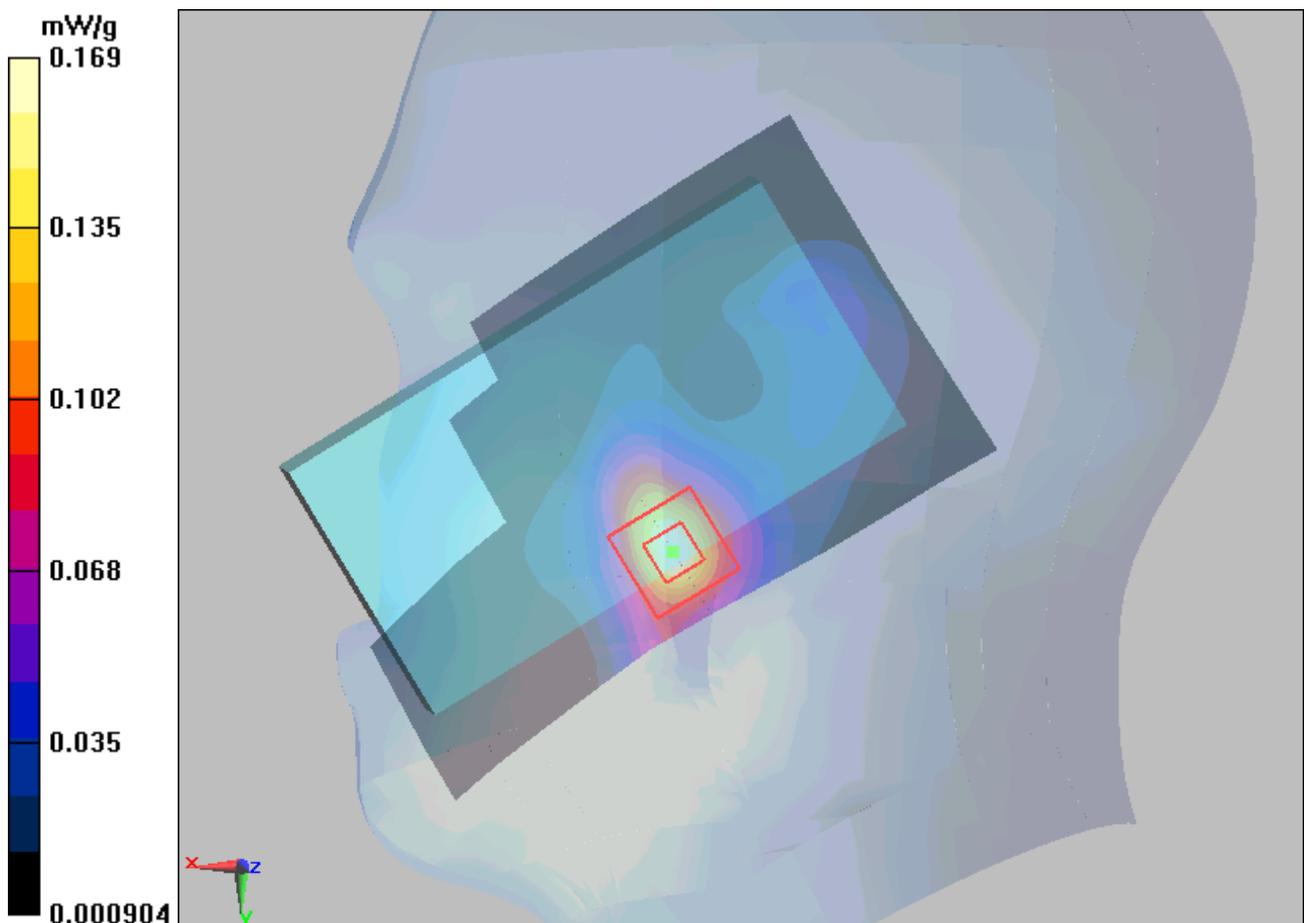


Figure 241 Right Hand Touch Cheek 802.11b Channel 11