



SAR TEST REPORT

Product Name	HSDPA/HSUPA/HSPA+/UMTS Quad bands / GSM quad bands/LTE 5 bands mobile phone
Model Name	Miata LATAM
Marketing Name	6036A
FCC ID	RAD449
Client	TCT Mobile Limited
Manufacturer	TCT Mobile Limited
Date of issue	April 4, 2014

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GENERAL SUMMARY

Reference Standard(s)	<p>FCC 47CFR §2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices</p> <p>ANSI C95.1, 1992: Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.(IEEE Std C95.1-1991)</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>KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r03: SAR Measurement Requirements for 100 MHz to 6 GHz</p> <p>KDB 447498 D01 Mobile Portable RF Exposure v05r02: Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies</p> <p>KDB 648474 D04 Handset SAR v01r02: SAR Evaluation Considerations for Wireless Handsets.</p> <p>KDB 941225 D01 SAR test for 3G devices v02: SAR Measurement Procedures CDMA 20001x RTT, 1x Ev-Do, WCDMA, HSDPA/HSPA</p> <p>KDB 941225 D02 HSPA and 1x Advanced v02r02 SAR Guidance for HSPA, HSPA+, DC-HSDPA and 1x-Advanced</p> <p>KDB 941225 D03 Test Reduction GSM_GPRS_EDGE v01:Recommended SAR Test Reduction Procedures for GSM/GPRS/EDGE</p> <p>KDB 941225 D04 SAR for GSM E GPRS Dual Xfer Mode v01: Evaluating SAR for GSM/(E)GPRS Dual Transfer Mode</p> <p>KDB 941225 D05 SAR for LTE Devices v02r03 SAR Test Considerations for LTE Handsets and Data Modems</p> <p>KDB 941225 D06 Hotspot Mode SAR v01r01: SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities</p> <p>KDB 248227 D01 SAR meas for 802 11 a b g v01r02: SAR Measurement Procedures for 802.11a/b/g Transmitters.</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 for the tested bands only.</p> <p>General Judgment: Pass</p>
Comment	<p>The test result only responds to the measured sample.</p>

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1. General Information

1.1. Notes of the Test Report

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

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 alone does 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.

If the electronic 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

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1.5. Information of EUT

General Information

Device Type:	Portable Device		
Exposure Category:	Uncontrolled Environment / General Population		
State of Sample:	Prototype Unit		
Product IMEI:	014010000053069		
Hardware Version:	PIO		
Software Version:	v4E18		
Antenna Type:	Internal Antenna		
Device Operating Configurations :			
Test Mode(s):	GSM 850/GSM 1900; UMTS Band II/UMTS Band V; LTE FDD Band 2/4/7/17; 802.11b/g/n HT20; Bluetooth;		
Test Modulation:	(GSM)GMSK; (UMTS)QPSK, (LTE) QPSK, 16QAM		
Device Class:	A		
HSDPA UE Category:	10		
HSUPA UE Category:	6		
HSPA+ UE Category:	14		
DC-HSDPA UE Category:	24		
LTE UE Category:	3		
GPRS Multislot Class(12):	Max Number of Timeslots in Uplink	4	
	Max Number of Timeslots in Downlink	4	
	Max Total Timeslot	5	
EGPRS Multislot Class(12):	Max Number of Timeslots in Uplink	4	
	Max Number of Timeslots in Downlink	4	
	Max Total Timeslot	5	
DTM Multislot Class(11):	Max Number of Timeslots in Uplink	3	
	Max Number of Timeslots in Downlink	4	
	Max Total Timeslot	5	
Operating Frequency Range(s):	Mode	Tx (MHz)	Rx (MHz)
	GSM 850	824.2 ~ 848.8	869.2 ~ 893.8
	GSM 1900	1850.2 ~ 1909.8	1930.2 ~ 1989.8
	UMTS Band II	1852.4 ~ 1907.6	1932.4 ~ 1987.6
	UMTS Band V	826.4 ~ 846.6	871.4 ~ 891.6

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	LTE FDD 2(1.4MHz)	1850.7 ~ 1909.3	1930.7 ~ 1989.3
	LTE FDD 2(3MHz)	1851.5 ~ 1908.5	1931.5 ~ 1988.5
	LTE FDD 2(5MHz)	1852.5 ~ 1907.5	1932.5 ~ 1987.5
	LTE FDD 2(10MHz)	1855 ~ 1905	1935 ~ 1985
	LTE FDD 2(15MHz)	1857.5 ~ 1902.5	1937.5 ~ 1982.5
	LTE FDD 2(20MHz)	1860 ~ 1900	1940 ~ 1980
	LTE FDD 4(1.4MHz)	1710.7 ~ 1754.3	2110.7 ~ 2154.3
	LTE FDD 4(3MHz)	1711.5 ~ 1753.5	2111.5 ~ 2153.5
	LTE FDD 4(5MHz)	1712.5 ~ 1752.5	2112.5 ~ 2152.5
	LTE FDD 4(10MHz)	1715 ~ 1750	2115 ~ 2150
	LTE FDD 4(15MHz)	1717.5 ~ 1747.5	2117.5 ~ 2147.5
	LTE FDD 4(20MHz)	1720 ~ 1745	2120 ~ 2145
	LTE FDD 7(5MHz)	2502.5 ~ 2567.5	2622.5 ~ 2687.5
	LTE FDD 7(10MHz)	2505 ~ 2565	2625 ~ 2685
	LTE FDD 7(15MHz)	2507.5 ~ 2562.5	2627.5 ~ 2682.5
	LTE FDD 7(20MHz)	2510 ~ 2560	2630 ~ 2680
	LTE FDD 17(5MHz)	706.5 ~ 713.5	736.5 ~ 743.5
	LTE FDD 17(10MHz)	709 ~ 711	739 ~ 741
	Bluetooth	2402 ~2480	2402 ~2480
	WIFI	2412 ~2462	2412 ~2462
Power Class:	GSM 850: 4		
	GSM 1900: 1		
	UMTS Band II: 3		
	UMTS Band V: 3		
	LTE FDD 2: 3		
	LTE FDD 4: 3		
	LTE FDD 7: 3		
	LTE FDD 17: 3		
Power Level	GSM 850: tested with power level 5		
	GSM 1900: tested with power level 0		
	UMTS Band II: tested with power control all up bits		
	UMTS Band V: tested with power control all up bits		
	LTE FDD 2: tested with max power		
	LTE FDD 4: tested with max power		
	LTE FDD 7: tested with max power		
	LTE FDD 17: tested with max power		

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Auxiliary Equipment Details

Name	Model	S/N
Battery 1	TLi020F1	B2000010C1100JEM
Battery 2	TLi020F2	B2000013C2Y000LF
Earphone 1	CCB3001A15C2	/
Earphone 2	CCB3001A15C4	/

Equipment under Test (EUT) has Personal Wireless Routers (hot spots) function.

The EUT has three antennas:

Antenna 1: GSM/UMTS/LTE antenna that is used for Tx/Rx;

Antenna 2: Diversity antenna that is used for Rx;

Antenna 3: BT/WIFI/GPS antenna; BT/WIFI that can be used for Tx/Rx, GPS that can be used for Rx.

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 Reported SAR_{1g}

2. Head SAR Configuration

Mode	Test Position	Channel /Frequency(MHz)	Limit SAR _{1g} 1.6 W/kg	
			Measured SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
GSM 850	Right/Cheek	190/836.6	0.364	0.416
GSM 850 DTM	Right/Cheek	128/824.4	0.449	0.633
GSM 1900	Right/Cheek	512/1850.2	0.442	0.518
GSM 1900 DTM	Right/Cheek	512/1850.2	0.573	0.728
UMTS Band II	Right/Cheek	9262/1852.4	0.774	0.924
UMTS Band V	Right/Cheek	4132/826.4	0.495	0.562
LTE FDD 2	Right/Cheek	18700/1860	0.284	0.341
LTE FDD 4	Right/Cheek	20300/1745	0.859	1.072
LTE FDD 7	Right/Cheek	21100/2535	0.23	0.283
LTE FDD 17	Left/Cheek	23790/710	0.338	0.351
WiFi(802.11b)	Left/Cheek	6/2437	0.398	0.472

Body Worn Configuration

Mode	Test Position	Channel /Frequency(MHz)	Limit SAR _{1g} 1.6 W/kg	
			Measured SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
GSM 850	Back Side	251/848.8	0.964	1.159
GSM 850 DTM	Back Side	128/824.4	0.869	1.225
GSM 1900	Back Side	512/1850.2	0.788	0.937
GSM 1900 DTM	Back Side	661/1880	0.769	0.973
UMTS Band II	Back Side	9262/1852.4	0.986	1.177
UMTS Band V	Back Side	4132/826.4	0.763	0.866
LTE FDD 2	Back Side	18900/1880	0.688	0.799
LTE FDD 4	Back Side	20050/1720	1.05	1.289
LTE FDD 7	Back Side	20850/2510	0.764	0.931
LTE FDD 17	Back Side	23790/710	0.676	0.701
WiFi(802.11b)	Back Side	11/2462	0.186	0.217

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Hotspot SAR Configuration

Mode	Test Position	Channel /Frequency(MHz)	Limit SAR _{1g} 1.6 W/kg	
			Measured SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
GSM 850	Back Side	251/848.8	0.964	1.159
GSM 850 DTM	Back Side	128/824.4	0.869	1.225
GSM 1900	Back Side	512/1850.2	0.788	0.937
GSM 1900 DTM	Back Side	661/1880	0.769	0.973
UMTS Band II	Back Side	9262/1852.4	0.986	1.177
UMTS Band V	Back Side	4132/826.4	0.763	0.866
LTE FDD 2	Bottom Edge	19100/1900	0.885	1.062
LTE FDD 4	Back Side	20050/1720	1.05	1.289
LTE FDD 7	Back Side	20850/2510	0.764	0.931
LTE FDD 17	Back Side	23790/710	0.676	0.701
WiFi(802.11b)	Back Side	11/2462	0.186	0.217

2.1. Test Date

The test performed from February 20, 2014 to March 4, 2014.

3. SAR Measurements System Configuration

3.1. 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.

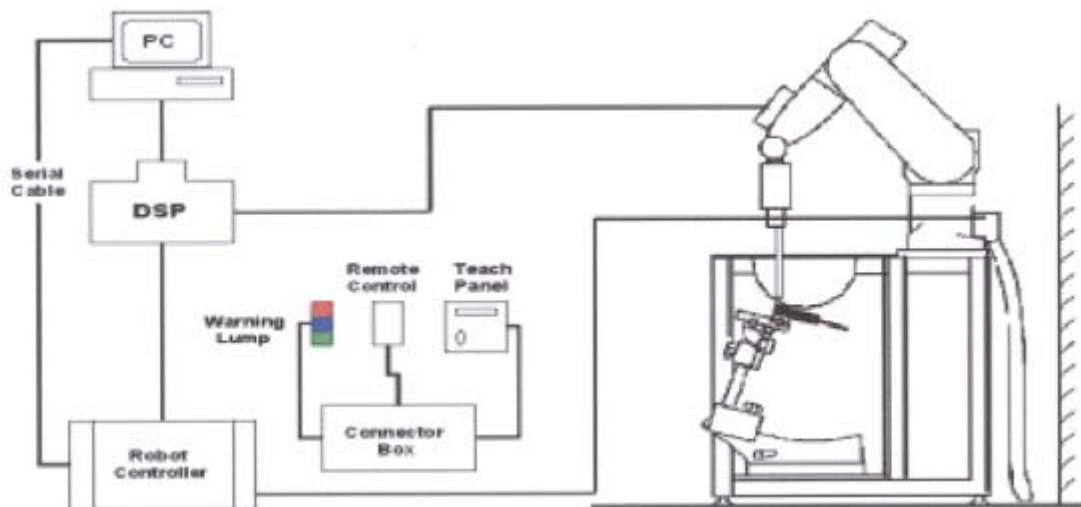


Figure 1 SAR Lab Test Measurement Set-up

3.2. DASY5 E-field Probe System

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

3.2.1. 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 2.EX3DV4 E-field Probe



Figure 3. EX3DV4 E-field probe

3.2.2. 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/m^3).

3.3. Other Test Equipment

3.3.1. 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 influence of the clamp on the test results could thus be lowered.



Figure 4 Device Holder

3.3.2. 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 5 Generic Twin Phantom

3.4. 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. $\pm 5\%$.
- The “surface check” measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)
- 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

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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) (Δx_{area} , Δy_{area})	Maximum Zoom Scan Resolution (mm) (Δx_{zoom} , Δy_{zoom})	Maximum Zoom Scan Spatial Resolution (mm) $\Delta z_{\text{zoom}}(n)$	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

3.5. Data Storage and Evaluation

3.5.1. 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.

3.5.2. 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

4. 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.	

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5. Tissue-equivalent Liquid

5.1. 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 3 and table 4 show the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the KDB 865664 D01.

Table 3: Composition of the Head Tissue Equivalent Matter

MIXTURE%	FREQUENCY(Brain) 750MHz
Water	41.448
Sugar	56
Salt	1.452
Preventol	0.1
Cellulose	1.0
Dielectric Parameters Target Value	f=750MHz $\epsilon=41.9$ $\sigma=0.89$

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 $\epsilon=40.0$ $\sigma=1.40$

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

MIXTURE%	FREQUENCY(Brain) 2600MHz
Water	55.242
Glycol	44.452
Salt	0.306
Dielectric Parameters Target Value	f=2600MHz $\epsilon=39.0$ $\sigma=1.96$

Table 4: Composition of the Body Tissue Equivalent Matter

MIXTURE%	FREQUENCY(Body) 750MHz
Water	52.49
Sugar	45
Salt	1.41
Preventol	0.1
Cellulose	1.0
Dielectric Parameters Target Value	f=750MHz $\epsilon=55.5$ $\sigma=0.96$

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 $\epsilon=53.4$ $\sigma=1.49$

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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 $\epsilon=52.70$ $\sigma=1.95$

MIXTURE%	FREQUENCY (Body) 2600MHz
Water	72.6
Glycol monobutyl	27.3
Salt	0.1
Dielectric Parameters Target Value	f=2600MHz $\epsilon=52.5$ $\sigma=2.16$

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5.2. Tissue-equivalent Liquid Properties

Table 5: Dielectric Performance of Tissue Simulating Liquid

Frequency	Test Date	Temp ℃	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ϵ_r	$\sigma(\text{s/m})$	ϵ_r	$\sigma(\text{s/m})$	Dev $\epsilon_r(\%)$	Dev $\sigma(\%)$
750MHz (head)	2014-2-27	21.5	42.0	0.90	41.9	0.89	0.24%	1.12%
835MHz (head)	2014-2-22	21.5	41.4	0.92	41.5	0.90	-0.24%	2.22%
1750MHz (head)	2014-3-3	21.5	40.3	1.39	40.1	1.37	0.50%	1.46%
1900MHz (head)	2014-2-21	21.5	39.6	1.43	40.0	1.40	-1.00%	2.14%
1900MHz (head)	2014-2-28	21.5	39.0	1.45	40.0	1.40	-2.50%	3.57%
2450MHz (head)	2014-2-26	21.5	39.1	1.80	39.2	1.80	-0.26%	0.00%
2600MHz (head)	2014-3-4	21.5	38.6	1.98	39.0	1.96	-1.03%	1.02%
750MHz (body)	2014-3-2	21.5	54.3	0.97	55.5	0.96	-2.16%	1.04%
835MHz (body)	2014-2-23	21.5	55.1	0.99	55.2	0.97	-0.18%	2.06%
1750MHz (body)	2014-3-1	21.5	52.9	1.50	53.4	1.49	-0.94%	0.67%
1900MHz (body)	2014-2-20	21.5	53.1	1.52	53.3	1.52	-0.38%	0.00%
1900MHz (body)	2014-3-3	21.5	52.7	1.58	53.3	1.52	-1.13%	3.95%
2450MHz (body)	2014-2-25	21.5	52.1	1.99	52.7	1.95	-1.14%	2.05%
2600MHz (body)	2014-3-2	21.5	52.3	2.20	52.5	2.16	-0.38%	1.85%

6. System Check

6.1. 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.

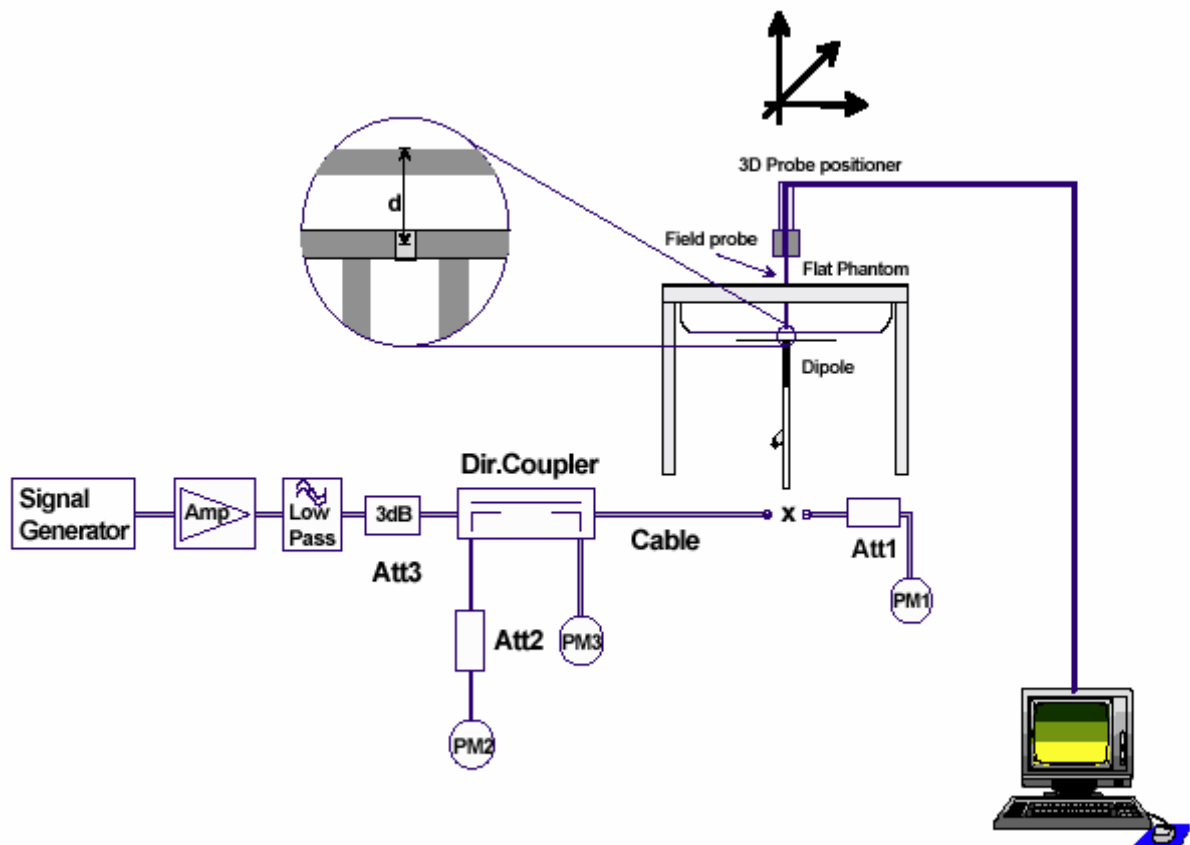


Figure 6 System Check Set-up

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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 865664 D01:

Dipole D750V3 SN: 1045				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
9/29/2011	-26.8	/	54.2	/
9/28/2012	-27.9	4.1%	53.8	0.4 Ω
9/27/2013	-26.1	2.6%	55.7	1.5 Ω
Body Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
9/29/2011	-27.5	/	49.5	/
9/28/2012	-26.9	2.2%	48.2	1.3 Ω
9/27/2013	-25.4	7.6%	47.6	1.9 Ω

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
8/24/2013	-26.6	4.1%	55.3	2.4 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
8/24/2013	-24.7	1.6%	51.1	2.4 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
8/29/2013	-21.4	4.2%	50.5	2.1 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
8/29/2013	-20.4	4.4%	44.8	2.5 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	/	55.0	/
8/28/2012	-26.8	5.1%	56.5	1.5 Ω
8/27/2013	-26.4	3.5%	56.9	1.9 Ω
Body Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
8/29/2011	-29.0	/	50.4	/
8/28/2012	-29.9	3.1%	52.1	1.7 Ω
8/27/2013	-28.2	2.8%	52.7	2.3 Ω

Dipole D2600V2 SN: 1012				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
5/2/2012	-25	/	48	/
5/1/2013	-23.5	6%	46.6	1.4 Ω
Body Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
5/2/2012	-23.6	/	45	/
5/1/2013	-24.5	3.8%	43.2	1.8 Ω

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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)					
750MHz	2014-3-2	54.3	0.97	21.5	2.22	8.88	8.80	0.91%
835MHz	2014-2-23	55.1	0.99	21.5	2.41	9.64	9.46	1.90%
1750MHz	2014-3-1	52.9	1.50	21.5	9.24	36.96	38.80	-4.74%
1900MHz	2014-2-20	53.1	1.52	21.5	9.93	39.72	41.70	-4.75%
1900MHz	2014-3-3	52.7	1.58	21.5	10.50	42.00	41.70	0.72%
2450MHz	2014-2-25	52.1	1.99	21.5	12.50	50.00	51.70	-3.29%
2600MHz	2014-3-2	52.3	2.20	21.5	13.50	54.00	54.30	-0.55%

Note: 1. The graph results see ANNEX B.
2. Target Values used derive from the calibration certificate

7. Operational Conditions during Test

7.1. 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 CMW 500, and the EUT is set to maximum output power by CMW 500. 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.

7.2. Test Positions

7.2.1. Against Phantom Head

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

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

7.2.2. 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.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If

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multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

7.3. Measurement Variability

Per FCC KDB Publication 865664 D01, 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

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

7.4. Test Configuration

7.4.1. GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a System Simulator (SS) by air link. Using CMW 500 the power level is set to “5” for GSM 850, set to “0” for GSM 1900. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5. Since the EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5. Since the DTM class is 11 for this EUT, it has at most 3 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Output power of reductions:

Table 8: The allowed power reduction in the multi-slot configuration

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power,(dB)
1	0
2	0 to 3,0
3	1,8 to 4,8
4	3,0 to 6,0

7.4.2. UMTS Test Configuration

7.4.2.1. Output power Verification

Maximum output power is verified on the High, Middle and Low channel according to the procedures described in section 5.2 of 3GPP TS 34. 121, using the appropriate RMC or AMR with TPC(transmit power control) set to all up bits for WCDMA/HSDPA or applying the required inner loop power control procedures to the maximum output power while HSUPA is active. Results for all applicable physical channel configuration (DPCCH, DPDCH_n and spreading codes, HSDPA, HSPA) should be tabulated in the SAR report. All configuration that are not supported by the DUT or can not be measured due to technical or equipment limitations should be clearly identified

7.4.2.2. Head SAR Measurements

SAR for head exposure configurations in voice mode is measured using a 12.2kbps RMC with TPC bits configured to all up bits. SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2kbps AMR is less than 1/4 dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2kbps AMR with a 3.4 kbps SRB(Signaling radio bearer) using the exposure configuration that results in the highest SAR in 12.2kbps RMC for that RF channel.

7.4.2.3. Body SAR Measurements

SAR for body exposure configurations in voice and data modes is measured using 12.2kbps RMC with TPC bits configured to all up bits. SAR for other spreading codes and multiple DPDCH_n, when supported by the DUT, are not required when the maximum average output of each RF channel, for each spreading code and DPDCH_n configuration, are less than 1/4 dB higher than those measured in 12.2kbps RMC. Otherwise, SAR is measured on the maximum output channel with an applicable RMC configuration for the corresponding spreading code or DPDCH_n using the exposure configuration that results in the highest SAR with 12.2 kbps RMC. When more than 2 DPDCH_n are supported by the DUT, it may be necessary to configure additional DPDCH_n for a DUT using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

7.4.3. HSDPA Test Configuration

SAR for body exposure configurations is measured according to the 'Body SAR Measurements' procedures of that section. In addition, body SAR is also measured for HSDPA when the maximum average output of each RF channel with HSDPA active is at least ¼ dB higher than that measured without HSDPA using 12.2 kbps RMC or the maximum SAR for 12.2 kbps RMC is above 75% of the SAR limit. Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/ HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding

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sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Table 9: Subtests for UMTS Release 5 HSDPA

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

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$

Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 8$ ($A_{hs} = 30/15$) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ ($A_{hs} = 24/15$) with $\beta_{hs} = 24/15 * \beta_c$.

Note3: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Table 10: Settings of required H-Set 1 QPSK in HSDPA mode

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	534
Inter-TTI Distance	TTI's	3
Number of HARQ Processes	Processes	2
Information Bit Payload (N_{INF})	Bits	3202
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	4800
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	9600
Coding Rate	/	0.67
Number of Physical Channel Codes	Codes	5
Modulation	/	QPSK

7.4.3.1. DC-HSDPA Test Configuration

body SAR is also measured for DC-HSDPA when the maximum average output of each RF channel with DC-HSDPA active is at least 1/4 dB higher than that measured without HSDPA using 12.2kbps RMC or the maximum SAR 12.2kbps RMC is above 75% of the SAR limit. Body SAR for DC-HSDPA is measured using the highest body SAR configuration in 12.2 kbps RMC without HSDPA.

Configure DC-HSDPA parameters for base station

a) Set up the HSDPA RB Test Mode Parameters

- RB Test HS-DSCH Configuration Type = User Defined
- RB Test User Defined HS-DSCH MAC entity = MAC-ehs (Note 1)
- RB Test User Defined HARQ Processes = 6 (Note 2)
- RB Test User Defined UE IR Buffer Allocation = Implicit
- RB Test User Defined DC-HSDPA State = On
- RB Test Mode DC-HSDPA DPCH Loopback State = On

b) Set up the Serving Cell Parameters

- RB Test User Defined 64QAM State = On
- RB Test User Defined Active HS-PDSCHs = 15
- RB Test User Def Transport Block Size Index = 62
- RB Test User Defined Modulation Type = 64QAM
- RB Test User Defined Inter-TTI Interval = 1

c) Set up the Secondary Serving Cell Parameters

- RB Test User Def Secondary Cell 64QAM State = On
- RBTM User Def Sec Cell Active HS-PDSCHs = 15
- RBTM User Def Sec Cell TB Size Index = 62
- RBTM User Def Sec Cell Modulation Type = 64QAM
- RBTM User Def Sec Cell Inter-TTI Interval = 1

d) Set the HSDPA Conn DL Channel Levels

- HSDPA Cell 1 Connected CPICH Level = -8
- HSDPA Cell 1 Connected P-CCPCH/SCH Level = -20
- HSDPA Cell 1 Connected PICH Level = off
- HSDPA Cell 1 Connected DPCH Level = -30
- HSDPA Cell 1 Connected HS-PDSCH Level (Sum) = -1 dBm
- HSDPA Cell 1 Connected HS-SCCH 1 to 4 Level = -20,-20,off,off
- Secondary Cell HSDPA Conn CPICH Level = -8
- Secondary Cell HSDPA Conn PCCPCH/SCH Level = -20
- Secondary Cell HSDPA Conn PICH Level = off
- Secondary Cell HSDPA Conn HS-PDSCHs Lvl (Sum) = -1 dBm
- Secondary Cell HSDPA Conn HS-SCCH 1 to 4 Level = -20,-20,off,off

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Table 11: HS-DSCH UE category

Table 5.1a: FDD HS-DSCH physical layer categories

HS-DSCH category	Maximum number of HS-DSCH codes received	Minimum inter-TTI interval	Maximum number of bits of an HS-DSCH transport block received within an HS-DSCH TTI NOTE 1	Total number of soft channel bits	Supported modulations without MIMO operation or dual cell operation	Supported modulations with MIMO operation and without dual cell operation	Supported modulations with dual cell operation
Category 1	5	3	7298	19200	QPSK, 16QAM	Not applicable (MIMO not supported)	Not applicable (dual cell operation not supported)
Category 2	5	3	7298	28800			
Category 3	5	2	7298	28800			
Category 4	5	2	7298	38400			
Category 5	5	1	7298	57600			
Category 6	5	1	7298	67200			
Category 7	10	1	14411	115200			
Category 8	10	1	14411	134400			
Category 9	15	1	20251	172800			
Category 10	15	1	27952	172800			
Category 11	5	2	3630	14400	QPSK		
Category 12	5	1	3630	28800			
Category 13	15	1	35280	259200	QPSK, 16QAM, 64QAM		
Category 14	15	1	42192	259200			
Category 15	15	1	23370	345600	QPSK, 16QAM		
Category 16	15	1	27952	345600			
Category 17 NOTE 2	15	1	35280	259200	QPSK, 16QAM, 64QAM	–	
			23370	345600	–	QPSK, 16QAM	
Category 18 NOTE 3	15	1	42192	259200	QPSK, 16QAM, 64QAM	–	
			27952	345600	–	QPSK, 16QAM	
Category 19	15	1	35280	518400	QPSK, 16QAM, 64QAM		
Category 20	15	1	42192	518400			
Category 21	15	1	23370	345600	-	-	QPSK, 16QAM
Category 22	15	1	27952	345600			QPSK, 16QAM, 64QAM
Category 23	15	1	35280	518400			
Category 24	15	1	42192	518400			

7.4.4. HSUPA Test Configuration

Body SAR is also measured for HSPA when the maximum average output of each RF channel with HSPA active is at least ¼ dB higher than that measured without HSPA using 12.2 kbps RMC or the maximum SAR for 12.2 kbps RMC is above 75% of the SAR limit. Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 with power control algorithm 2, according to the highest body SAR configuration in 12.2 kbps RMC without HSPA.⁴⁰

Due to inner loop power control requirements in HSPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA should be configured according to the β values indicated below as well as other applicable procedures described in the 'WCDMA Handset' and 'Release 5 HSDPA Data Devices' sections of 3 G device.

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Table 12: Sub-Test 5 Setup for Release 6 HSUPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (2) (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

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

DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the

signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the

signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Figure 5.1g.

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

Table 13: HSUPA UE category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E- DCH TTI (ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	11484	5.76
	4	4	10		20000	2.00
7 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	22996	?
	4	4	10		20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.

UE Categories 1 to 6 supports QPSK only. UE Category 7 supports QPSK and 16QAM. (TS25.306-7.3.0)

7.4.5. LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) 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.

E) 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.

7.4.6. WIFI Test Configuration

For WLAN SAR testing, WLAN engineering testing software installed on the DUT can provide continuous transmitting RF signal. The Tx power is set to 18 for 802.11 b mode by software. 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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8. Test Results

8.1. Conducted Power Results

Table 14: Conducted Power Measurement Results

GSM 850		Burst Conducted Power(dBm)			/	Average power(dBm)		
		Channel 128	Channel 190	Channel 251		Channel 128	Channel 190	Channel 251
GSM		33.23	33.12	33	-9.03dB	24.20	24.09	23.97
GPRS (GMSK)	1Txslot	33.21	33.1	33.02	-9.03dB	24.18	24.07	23.99
	2Txslots	31.25	31.25	31.4	-6.02dB	25.23	25.23	25.38
	3Txslots	28.95	29.08	29.14	-4.26dB	24.69	24.82	24.88
	4Txslots	27.98	28.06	28.12	-3.01dB	24.97	25.05	25.11
EGPRS (GMSK)	1Txslot	33.19	33.05	33.01	-9.03dB	24.16	24.02	23.98
	2Txslots	31.22	31.22	31.35	-6.02dB	25.2	25.20	25.33
	3Txslots	28.94	29.05	29.12	-4.26dB	24.68	24.79	24.86
	4Txslots	27.95	28.04	28.09	-3.01dB	24.94	25.03	25.08
EGPRS (8PSK)	1Txslot	27.2	27.18	27.26	-9.03dB	18.17	18.15	18.23
	2Txslots	25.57	25.47	25.72	-6.02dB	19.55	19.45	19.7
	3Txslots	23.36	23.28	23.5	-4.26dB	19.1	19.02	19.24
	4Txslots	22.19	22.19	22.29	-3.01dB	19.18	19.18	19.28
GSM 1900		Burst Conducted Power(dBm)			/	Average power(dBm)		
		Channel 512	Channel 661	Channel 810		Channel 512	Channel 661	Channel 810
GSM		30.01	30.16	30.11	-9.03dB	20.98	21.13	21.08
GPRS (GMSK)	1Txslot	29.97	30.02	30.14	-9.03dB	20.94	20.99	21.11
	2Txslots	28.62	28.63	28.59	-6.02dB	22.60	22.61	22.57
	3Txslots	26.84	26.92	26.92	-4.26dB	22.58	22.66	22.66
	4Txslots	25.75	25.73	25.73	-3.01dB	22.74	22.72	22.72
EGPRS (GMSK)	1Txslot	29.97	30.01	30.07	-9.03dB	20.94	20.98	21.04
	2Txslots	28.62	28.6	28.56	-6.02dB	22.60	22.58	22.54
	3Txslots	26.84	26.9	26.9	-4.26dB	22.58	22.64	22.64
	4Txslots	25.75	25.71	25.7	-3.01dB	22.74	22.7	22.69
EGPRS (8PSK)	1Txslot	26.2	26.04	26.09	-9.03dB	17.17	17.01	17.06
	2Txslots	24.5	24.48	24.44	-6.02dB	18.48	18.46	18.42
	3Txslots	23.32	23.33	23.32	-4.26dB	19.06	19.07	19.06
	4Txslots	21.3	21.19	21.14	-3.01dB	18.29	18.18	18.13

Note:

1) Division Factors

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

1Txslot = 1 transmit time slot out of 8 time slots

=> conducted power divided by (8/1) => -9.03 dB

2Txslots = 2 transmit time slots out of 8 time slots

=> conducted power divided by (8/2) => -6.02 dB

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3Txslots = 3 transmit time slots out of 8 time slots

=> conducted power divided by (8/3) => -4.26 dB

4Txslots = 4 transmit time slots out of 8 time slots

=> conducted power divided by (8/4) => -3.01 dB

2) Average power numbers

The maximum power numbers are marks in bold.

		Burst Conducted Power(dBm)			/	Average power(dBm)		
		Channel 128	Channel 190	Channel 251		Channel 128	Channel 190	Channel 251
GSM 850 DTM	2Txslots	30.71	31.07	30.91	-6.02dB	24.69	25.05	24.89
	3Txslots	28.38	28.63	28.53	-4.26dB	24.12	24.37	24.27
		Burst Conducted Power(dBm)			/	Average power(dBm)		
		Channel 512	Channel 661	Channel 810		Channel 512	Channel 661	Channel 810
GSM 1900 DTM	2Txslots	28.37	28.36	28.19	-6.02dB	22.35	22.34	22.17
	3Txslots	26.66	26.68	26.55	-4.26dB	22.4	22.42	22.29

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UMTS Band II		Conducted Power (dBm)		
		Channel 9262	Channel 9400	Channel 9538
RMC	12.2kbps RMC	23.43	23.5	23.23
	64kbps RMC	23.31	23.36	23.16
	144kbps RMC	23.26	23.43	23.18
	384kbps RMC	23.29	23.39	23.09
HSDPA	Sub - Test 1	23.28	23.43	23.23
	Sub - Test 2	23.32	23.41	23.18
	Sub - Test 3	23.01	23.15	22.79
	Sub - Test 4	23.11	23.11	22.83
HSUPA	Sub - Test 1	22.56	22.64	22.59
	Sub - Test 2	20.89	20.79	20.71
	Sub - Test 3	21.79	21.81	21.95
	Sub - Test 4	20.98	20.99	20.61
	Sub - Test 5	22.76	22.86	22.82
DC-HSDPA	Sub - Test 1	23.18	23.35	23.18
	Sub - Test 2	23.21	23.32	23.11
	Sub - Test 3	23.11	23.11	22.71
	Sub - Test 4	23.04	23.17	22.82
UMTS Band V		Conducted Power (dBm)		
		Channel 4132	Channel 4183	Channel 4233
RMC	12.2kbps RMC	24.15	24.15	24.03
	64kbps RMC	24.08	24.13	24.01
	144kbps RMC	24.11	24.02	23.98
	384kbps RMC	24.06	24.09	23.91
HSDPA	Sub - Test 1	24.02	24.01	23.97
	Sub - Test 2	24.13	23.96	23.94
	Sub - Test 3	23.86	23.61	23.67
	Sub - Test 4	23.79	23.64	23.61
HSUPA	Sub - Test 1	22.97	22.89	22.94
	Sub - Test 2	21.12	21.09	21.98
	Sub - Test 3	21.89	21.89	22.08
	Sub - Test 4	21.23	21.31	21.99
	Sub - Test 5	23.02	22.98	23.04
DC-HSDPA	Sub - Test 1	23.98	23.97	23.89
	Sub - Test 2	23.94	23.94	23.94
	Sub - Test 3	23.67	23.65	23.59
	Sub - Test 4	23.69	23.67	23.57

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LTE FDD 2					
Channal	Bandwidth(MHz)	RB Size	RB offset	Modulation	AV Power (dBm)
18607	1.4	1	0	QPSK	22.98
18607	1.4	1	3	QPSK	22.94
18607	1.4	1	6	QPSK	22.96
18607	1.4	3	0	QPSK	22.96
18607	1.4	3	2	QPSK	22.94
18607	1.4	3	4	QPSK	22.93
18607	1.4	7	0	QPSK	22.06
18607	1.4	1	0	16QAM	21.86
18607	1.4	1	3	16QAM	21.85
18607	1.4	1	6	16QAM	21.91
18607	1.4	3	0	16QAM	21.24
18607	1.4	3	2	16QAM	21.08
18607	1.4	3	4	16QAM	21.07
18607	1.4	7	0	16QAM	21.04
18900	1.4	1	0	QPSK	22.99
18900	1.4	1	3	QPSK	22.95
18900	1.4	1	6	QPSK	22.97
18900	1.4	3	0	QPSK	22.97
18900	1.4	3	2	QPSK	22.95
18900	1.4	3	4	QPSK	22.94
18900	1.4	7	0	QPSK	22.07
18900	1.4	1	0	16QAM	21.87
18900	1.4	1	3	16QAM	21.86
18900	1.4	1	6	16QAM	21.92
18900	1.4	3	0	16QAM	21.25
18900	1.4	3	2	16QAM	21.09
18900	1.4	3	4	16QAM	21.08
18900	1.4	7	0	16QAM	21.05
19193	1.4	1	0	QPSK	23.02
19193	1.4	1	3	QPSK	22.98
19193	1.4	1	6	QPSK	23.01
19193	1.4	3	0	QPSK	23.01
19193	1.4	3	2	QPSK	22.98
19193	1.4	3	4	QPSK	22.97
19193	1.4	7	0	QPSK	22.1
19193	1.4	1	0	16QAM	21.9
19193	1.4	1	3	16QAM	21.89
19193	1.4	1	6	16QAM	21.95
19193	1.4	3	0	16QAM	21.78
19193	1.4	3	2	16QAM	21.72
19193	1.4	3	4	16QAM	21.71

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19193	1.4	7	0	16QAM	21.08
18615	3	1	0	QPSK	22.98
18615	3	1	7	QPSK	22.96
18615	3	1	14	QPSK	22.97
18615	3	7	0	QPSK	22.08
18615	3	7	4	QPSK	22.04
18615	3	7	8	QPSK	22.13
18615	3	15	0	QPSK	22.16
18615	3	1	0	16QAM	22.09
18615	3	1	7	16QAM	22.1
18615	3	1	14	16QAM	22.15
18615	3	7	0	16QAM	21.25
18615	3	7	4	16QAM	21.29
18615	3	7	8	16QAM	21.31
18615	3	15	0	16QAM	21.11
18900	3	1	0	QPSK	22.97
18900	3	1	7	QPSK	22.95
18900	3	1	14	QPSK	22.96
18900	3	7	0	QPSK	22.07
18900	3	7	4	QPSK	22.03
18900	3	7	8	QPSK	22.12
18900	3	15	0	QPSK	22.15
18900	3	1	0	16QAM	22.08
18900	3	1	7	16QAM	22.09
18900	3	1	14	16QAM	22.14
18900	3	7	0	16QAM	21.24
18900	3	7	4	16QAM	21.28
18900	3	7	8	16QAM	21.29
18900	3	15	0	16QAM	21.09
19185	3	1	0	QPSK	22.95
19185	3	1	7	QPSK	22.93
19185	3	1	14	QPSK	22.94
19185	3	7	0	QPSK	22.05
19185	3	7	4	QPSK	22.01
19185	3	7	8	QPSK	22.11
19185	3	15	0	QPSK	22.13
19185	3	1	0	16QAM	22.06
19185	3	1	7	16QAM	22.07
19185	3	1	14	16QAM	22.12
19185	3	7	0	16QAM	21.22
19185	3	7	4	16QAM	21.26
19185	3	7	8	16QAM	21.27
19185	3	15	0	16QAM	21.07

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18625	5	1	0	QPSK	23.07
18625	5	1	7	QPSK	23.05
18625	5	1	14	QPSK	22.98
18625	5	12	0	QPSK	22.17
18625	5	12	4	QPSK	22.37
18625	5	12	8	QPSK	22.31
18625	5	25	0	QPSK	22.22
18625	5	1	0	16QAM	21.69
18625	5	1	7	16QAM	21.48
18625	5	1	14	16QAM	21.41
18625	5	12	0	16QAM	21.17
18625	5	12	4	16QAM	21.51
18625	5	12	8	16QAM	21.36
18625	5	25	0	16QAM	21.21
18900	5	1	0	QPSK	23.04
18900	5	1	7	QPSK	23.02
18900	5	1	14	QPSK	22.95
18900	5	12	0	QPSK	22.14
18900	5	12	4	QPSK	22.34
18900	5	12	8	QPSK	22.58
18900	5	25	0	QPSK	22.19
18900	5	1	0	16QAM	21.66
18900	5	1	7	16QAM	21.45
18900	5	1	14	16QAM	21.38
18900	5	12	0	16QAM	21.14
18900	5	12	4	16QAM	21.48
18900	5	12	8	16QAM	21.33
18900	5	25	0	16QAM	21.18
19175	5	1	0	QPSK	23.08
19175	5	1	7	QPSK	23.06
19175	5	1	14	QPSK	22.99
19175	5	12	0	QPSK	22.18
19175	5	12	4	QPSK	22.38
19175	5	12	8	QPSK	22.62
19175	5	25	0	QPSK	22.23
19175	5	1	0	16QAM	21.7
19175	5	1	7	16QAM	21.49
19175	5	1	14	16QAM	21.42
19175	5	12	0	16QAM	21.18
19175	5	12	4	16QAM	21.52
19175	5	12	8	16QAM	21.37
19175	5	25	0	16QAM	21.22
18650	10	1	0	QPSK	23.07

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18650	10	1	24	QPSK	23.04
18650	10	1	49	QPSK	23.01
18650	10	25	0	QPSK	23.27
18650	10	25	12	QPSK	23.04
18650	10	25	25	QPSK	22.97
18650	10	50	0	QPSK	22.1
18650	10	1	0	16QAM	22.53
18650	10	1	24	16QAM	21.82
18650	10	1	49	16QAM	21.77
18650	10	25	0	16QAM	21.65
18650	10	25	12	16QAM	21.61
18650	10	25	25	16QAM	21.7
18650	10	50	0	16QAM	21.63
18900	10	1	0	QPSK	23.05
18900	10	1	24	QPSK	23.02
18900	10	1	49	QPSK	22.98
18900	10	25	0	QPSK	23.25
18900	10	25	12	QPSK	23.02
18900	10	25	25	QPSK	22.95
18900	10	50	0	QPSK	22.08
18900	10	1	0	16QAM	22.51
18900	10	1	24	16QAM	21.8
18900	10	1	49	16QAM	21.75
18900	10	25	0	16QAM	21.63
18900	10	25	12	16QAM	21.59
18900	10	25	25	16QAM	21.68
18900	10	50	0	16QAM	21.61
19150	10	1	0	QPSK	23.08
19150	10	1	24	QPSK	23.05
19150	10	1	49	QPSK	23.01
19150	10	25	0	QPSK	23.29
19150	10	25	12	QPSK	23.05
19150	10	25	25	QPSK	22.98
19150	10	50	0	QPSK	22.11
19150	10	1	0	16QAM	22.54
19150	10	1	24	16QAM	21.83
19150	10	1	49	16QAM	21.78
19150	10	25	0	16QAM	21.66
19150	10	25	12	16QAM	21.62
19150	10	25	25	16QAM	21.71
19150	10	50	0	16QAM	21.64
18675	15	1	0	QPSK	23.04
18675	15	1	37	QPSK	23.01

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18675	15	1	74	QPSK	22.95
18675	15	38	0	QPSK	22.11
18675	15	38	19	QPSK	22.18
18675	15	38	37	QPSK	22.12
18675	15	75	0	QPSK	22.14
18675	15	1	0	16QAM	22.62
18675	15	1	37	16QAM	22.65
18675	15	1	74	16QAM	22.76
18675	15	38	0	16QAM	21.82
18675	15	38	19	16QAM	21.85
18675	15	38	37	16QAM	21.86
18675	15	75	0	16QAM	21.87
18900	15	1	0	QPSK	23.01
18900	15	1	37	QPSK	22.98
18900	15	1	74	QPSK	22.92
18900	15	38	0	QPSK	22.08
18900	15	38	19	QPSK	22.15
18900	15	38	37	QPSK	22.09
18900	15	75	0	QPSK	22.11
18900	15	1	0	16QAM	22.59
18900	15	1	37	16QAM	22.62
18900	15	1	74	16QAM	22.73
18900	15	38	0	16QAM	21.79
18900	15	38	19	16QAM	21.82
18900	15	38	37	16QAM	21.83
18900	15	75	0	16QAM	21.84
19125	15	1	0	QPSK	23.06
19125	15	1	37	QPSK	23.03
19125	15	1	74	QPSK	22.97
19125	15	38	0	QPSK	22.13
19125	15	38	19	QPSK	22.21
19125	15	38	37	QPSK	22.14
19125	15	75	0	QPSK	22.16
19125	15	1	0	16QAM	22.64
19125	15	1	37	16QAM	22.67
19125	15	1	74	16QAM	22.78
19125	15	38	0	16QAM	21.84
19125	15	38	19	16QAM	21.87
19125	15	38	37	16QAM	21.88
19125	15	75	0	16QAM	21.89
18700	20	1	0	QPSK	22.91
18700	20	1	49	QPSK	22.89
18700	20	1	99	QPSK	22.88

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18700	20	50	0	QPSK	22.09
18700	20	50	24	QPSK	22.08
18700	20	50	50	QPSK	22.11
18700	20	100	0	QPSK	22.17
18700	20	1	0	16QAM	22.02
18700	20	1	49	16QAM	21.99
18700	20	1	99	16QAM	21.96
18700	20	50	0	16QAM	21.04
18700	20	50	24	16QAM	21.08
18700	20	50	50	16QAM	21.12
18700	20	100	0	16QAM	21.06
18900	20	1	0	QPSK	23.05
18900	20	1	49	QPSK	23.01
18900	20	1	99	QPSK	22.98
18900	20	50	0	QPSK	22.06
18900	20	50	24	QPSK	22.12
18900	20	50	50	QPSK	22.15
18900	20	100	0	QPSK	22.07
18900	20	1	0	16QAM	21.84
18900	20	1	49	16QAM	21.92
18900	20	1	99	16QAM	21.95
18900	20	50	0	16QAM	21.06
18900	20	50	24	16QAM	21.15
18900	20	50	50	16QAM	21.18
18900	20	100	0	16QAM	21.12
19100	20	1	0	QPSK	22.91
19100	20	1	49	QPSK	22.87
19100	20	1	99	QPSK	22.79
19100	20	50	0	QPSK	21.96
19100	20	50	24	QPSK	21.99
19100	20	50	50	QPSK	21.98
19100	20	100	0	QPSK	21.96
19100	20	1	0	16QAM	22.02
19100	20	1	49	16QAM	21.99
19100	20	1	99	16QAM	22.01
19100	20	50	0	16QAM	21.04
19100	20	50	24	16QAM	21.08
19100	20	50	50	16QAM	21.12
19100	20	100	0	16QAM	21.05

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LTE FDD 4					
Channel	Bandwidth(MHz)	RB Size	RB offset	Modulation	AV Power (dBm)
19957	1.4	1	0	QPSK	23.18
19957	1.4	1	3	QPSK	23.15
19957	1.4	1	6	QPSK	23.12
19957	1.4	3	0	QPSK	23.16
19957	1.4	3	2	QPSK	23.14
19957	1.4	3	4	QPSK	23.12
19957	1.4	7	0	QPSK	22.44
19957	1.4	1	0	16QAM	22.34
19957	1.4	1	3	16QAM	22.37
19957	1.4	1	6	16QAM	22.38
19957	1.4	3	0	16QAM	22.28
19957	1.4	3	2	16QAM	22.26
19957	1.4	3	4	16QAM	22.24
19957	1.4	7	0	16QAM	21.42
20175	1.4	1	0	QPSK	23.19
20175	1.4	1	3	QPSK	23.16
20175	1.4	1	6	QPSK	23.13
20175	1.4	3	0	QPSK	23.17
20175	1.4	3	2	QPSK	23.15
20175	1.4	3	4	QPSK	23.13
20175	1.4	7	0	QPSK	22.45
20175	1.4	1	0	16QAM	22.35
20175	1.4	1	3	16QAM	22.38
20175	1.4	1	6	16QAM	22.39
20175	1.4	3	0	16QAM	22.29
20175	1.4	3	2	16QAM	22.27
20175	1.4	3	4	16QAM	22.25
20175	1.4	7	0	16QAM	21.43
20393	1.4	1	0	QPSK	23.2
20393	1.4	1	3	QPSK	23.17
20393	1.4	1	6	QPSK	23.14
20393	1.4	3	0	QPSK	23.18
20393	1.4	3	2	QPSK	23.16
20393	1.4	3	4	QPSK	23.14
20393	1.4	7	0	QPSK	22.46
20393	1.4	1	0	16QAM	22.36
20393	1.4	1	3	16QAM	22.39
20393	1.4	1	6	16QAM	22.4
20393	1.4	3	0	16QAM	22.3
20393	1.4	3	2	16QAM	22.28

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20393	1.4	3	4	16QAM	22.26
20393	1.4	7	0	16QAM	21.44
19965	3	1	0	QPSK	23.25
19965	3	1	7	QPSK	23.23
19965	3	1	14	QPSK	23.21
19965	3	7	0	QPSK	22.39
19965	3	7	4	QPSK	22.37
19965	3	7	8	QPSK	22.36
19965	3	15	0	QPSK	22.37
19965	3	1	0	16QAM	21.27
19965	3	1	7	16QAM	21.27
19965	3	1	14	16QAM	21.3
19965	3	7	0	16QAM	21.31
19965	3	7	4	16QAM	21.29
19965	3	7	8	16QAM	21.33
19965	3	15	0	16QAM	21.3
20175	3	1	0	QPSK	23.27
20175	3	1	7	QPSK	23.25
20175	3	1	14	QPSK	23.23
20175	3	7	0	QPSK	22.41
20175	3	7	4	QPSK	22.39
20175	3	7	8	QPSK	22.38
20175	3	15	0	QPSK	22.39
20175	3	1	0	16QAM	21.29
20175	3	1	7	16QAM	21.29
20175	3	1	14	16QAM	21.32
20175	3	7	0	16QAM	21.33
20175	3	7	4	16QAM	21.31
20175	3	7	8	16QAM	21.35
20175	3	15	0	16QAM	21.32
20385	3	1	0	QPSK	23.29
20385	3	1	7	QPSK	23.27
20385	3	1	14	QPSK	23.25
20385	3	7	0	QPSK	22.43
20385	3	7	4	QPSK	22.41
20385	3	7	8	QPSK	22.4
20385	3	15	0	QPSK	22.41
20385	3	1	0	16QAM	21.31
20385	3	1	7	16QAM	21.31
20385	3	1	14	16QAM	21.34
20385	3	7	0	16QAM	21.35
20385	3	7	4	16QAM	21.33
20385	3	7	8	16QAM	21.37

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20385	3	15	0	16QAM	21.34
19975	5	1	0	QPSK	23.38
19975	5	1	7	QPSK	23.36
19975	5	1	14	QPSK	23.31
19975	5	12	0	QPSK	22.47
19975	5	12	4	QPSK	22.53
19975	5	12	8	QPSK	22.56
19975	5	25	0	QPSK	22.51
19975	5	1	0	16QAM	22.32
19975	5	1	7	16QAM	22.31
19975	5	1	14	16QAM	22.39
19975	5	12	0	16QAM	21.43
19975	5	12	4	16QAM	21.45
19975	5	12	8	16QAM	21.49
19975	5	25	0	16QAM	21.52
20175	5	1	0	QPSK	23.39
20175	5	1	7	QPSK	23.37
20175	5	1	14	QPSK	23.31
20175	5	12	0	QPSK	22.48
20175	5	12	4	QPSK	22.54
20175	5	12	8	QPSK	22.57
20175	5	25	0	QPSK	22.51
20175	5	1	0	16QAM	22.33
20175	5	1	7	16QAM	22.31
20175	5	1	14	16QAM	22.37
20175	5	12	0	16QAM	21.41
20175	5	12	4	16QAM	21.44
20175	5	12	8	16QAM	21.47
20175	5	25	0	16QAM	21.46
20375	5	1	0	QPSK	23.37
20375	5	1	7	QPSK	23.35
20375	5	1	14	QPSK	23.28
20375	5	12	0	QPSK	22.46
20375	5	12	4	QPSK	22.52
20375	5	12	8	QPSK	22.55
20375	5	25	0	QPSK	22.48
20375	5	1	0	16QAM	22.31
20375	5	1	7	16QAM	22.29
20375	5	1	14	16QAM	22.35
20375	5	12	0	16QAM	21.39
20375	5	12	4	16QAM	21.42
20375	5	12	8	16QAM	21.45
20375	5	25	0	16QAM	21.44

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20000	10	1	0	QPSK	23.61
20000	10	1	24	QPSK	23.58
20000	10	1	49	QPSK	23.52
20000	10	25	0	QPSK	22.71
20000	10	25	12	QPSK	22.78
20000	10	25	25	QPSK	22.85
20000	10	50	0	QPSK	22.78
20000	10	1	0	16QAM	22.08
20000	10	1	24	16QAM	22.15
20000	10	1	49	16QAM	22.18
20000	10	25	0	16QAM	21.68
20000	10	25	12	16QAM	21.81
20000	10	25	25	16QAM	21.78
20000	10	50	0	16QAM	21.72
20175	10	1	0	QPSK	23.58
20175	10	1	24	QPSK	23.55
20175	10	1	49	QPSK	23.49
20175	10	25	0	QPSK	22.68
20175	10	25	12	QPSK	22.75
20175	10	25	25	QPSK	22.82
20175	10	50	0	QPSK	22.75
20175	10	1	0	16QAM	22.05
20175	10	1	24	16QAM	22.12
20175	10	1	49	16QAM	22.15
20175	10	25	0	16QAM	21.65
20175	10	25	12	16QAM	21.78
20175	10	25	25	16QAM	21.75
20175	10	50	0	16QAM	21.69
20350	10	1	0	QPSK	23.59
20350	10	1	24	QPSK	23.56
20350	10	1	49	QPSK	23.51
20350	10	25	0	QPSK	22.69
20350	10	25	12	QPSK	22.76
20350	10	25	25	QPSK	22.83
20350	10	50	0	QPSK	22.76
20350	10	1	0	16QAM	22.06
20350	10	1	24	16QAM	22.13
20350	10	1	49	16QAM	22.16
20350	10	25	0	16QAM	21.66
20350	10	25	12	16QAM	21.79
20350	10	25	25	16QAM	21.76
20350	10	50	0	16QAM	21.71
20025	15	1	0	QPSK	23.35

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20025	15	1	37	QPSK	23.31
20025	15	1	74	QPSK	23.29
20025	15	38	0	QPSK	22.38
20025	15	38	19	QPSK	22.46
20025	15	38	37	QPSK	22.53
20025	15	75	0	QPSK	22.47
20025	15	1	0	16QAM	22.49
20025	15	1	37	16QAM	22.48
20025	15	1	74	16QAM	22.57
20025	15	38	0	16QAM	21.65
20025	15	38	19	16QAM	21.76
20025	15	38	37	16QAM	21.73
20025	15	75	0	16QAM	21.67
20175	15	1	0	QPSK	23.34
20175	15	1	37	QPSK	23.3
20175	15	1	74	QPSK	23.28
20175	15	38	0	QPSK	22.37
20175	15	38	19	QPSK	22.45
20175	15	38	37	QPSK	22.52
20175	15	75	0	QPSK	22.46
20175	15	1	0	16QAM	22.48
20175	15	1	37	16QAM	22.47
20175	15	1	74	16QAM	22.56
20175	15	38	0	16QAM	21.64
20175	15	38	19	16QAM	21.75
20175	15	38	37	16QAM	21.72
20175	15	75	0	16QAM	21.66
20300	15	1	0	QPSK	23.38
20300	15	1	37	QPSK	23.34
20300	15	1	74	QPSK	23.32
20300	15	38	0	QPSK	22.41
20300	15	38	19	QPSK	22.49
20300	15	38	37	QPSK	22.56
20300	15	75	0	QPSK	22.51
20300	15	1	0	16QAM	22.52
20300	15	1	37	16QAM	22.51
20300	15	1	74	16QAM	22.6
20300	15	38	0	16QAM	21.68
20300	15	38	19	16QAM	21.79
20300	15	38	37	16QAM	21.76
20300	15	75	0	16QAM	21.7
20050	20	1	0	QPSK	23.31
20050	20	1	49	QPSK	23.25

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20050	20	1	99	QPSK	23.28
20050	20	50	0	QPSK	22.37
20050	20	50	24	QPSK	22.45
20050	20	50	50	QPSK	22.49
20050	20	100	0	QPSK	22.39
20050	20	1	0	16QAM	22.31
20050	20	1	49	16QAM	22.35
20050	20	1	99	16QAM	22.42
20050	20	50	0	16QAM	21.38
20050	20	50	24	16QAM	21.42
20050	20	50	50	16QAM	21.45
20050	20	100	0	16QAM	21.36
20175	20	1	0	QPSK	23.29
20175	20	1	49	QPSK	23.25
20175	20	1	99	QPSK	23.27
20175	20	50	0	QPSK	22.41
20175	20	50	24	QPSK	22.45
20175	20	50	50	QPSK	22.39
20175	20	100	0	QPSK	22.38
20175	20	1	0	16QAM	22.26
20175	20	1	49	16QAM	22.28
20175	20	1	99	16QAM	22.32
20175	20	50	0	16QAM	21.39
20175	20	50	24	16QAM	21.45
20175	20	50	50	16QAM	21.42
20175	20	100	0	16QAM	21.38
20300	20	1	0	QPSK	23.24
20300	20	1	49	QPSK	23.2
20300	20	1	99	QPSK	23.22
20300	20	50	0	QPSK	22.79
20300	20	50	24	QPSK	22.76
20300	20	50	50	QPSK	22.82
20300	20	100	0	QPSK	22.51
20300	20	1	0	16QAM	22.03
20300	20	1	49	16QAM	21.99
20300	20	1	99	16QAM	22.06
20300	20	50	0	16QAM	21.49
20300	20	50	24	16QAM	21.52
20300	20	50	50	16QAM	21.55
20300	20	100	0	16QAM	21.43

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LTE FDD 7					
Channel	Bandwidth(MHz)	RB Size	RB offset	Modulation	AV Power (dBm)
20775	5	1	0	QPSK	23.12
20775	5	1	12	QPSK	23.16
20775	5	1	24	QPSK	23.09
20775	5	12	0	QPSK	22.35
20775	5	12	6	QPSK	22.37
20775	5	12	13	QPSK	22.44
20775	5	25	0	QPSK	22.32
20775	5	1	0	16QAM	22.59
20775	5	1	12	16QAM	22.58
20775	5	1	24	16QAM	22.46
20775	5	12	0	16QAM	21.63
20775	5	12	6	16QAM	21.68
20775	5	12	13	16QAM	21.79
20775	5	25	0	16QAM	21.68
21100	5	1	0	QPSK	23.01
21100	5	1	12	QPSK	23.11
21100	5	1	24	QPSK	23.03
21100	5	12	0	QPSK	22.31
21100	5	12	6	QPSK	22.33
21100	5	12	13	QPSK	22.41
21100	5	25	0	QPSK	22.27
21100	5	1	0	16QAM	22.42
21100	5	1	12	16QAM	22.38
21100	5	1	24	16QAM	22.28
21100	5	12	0	16QAM	21.53
21100	5	12	6	16QAM	21.48
21100	5	12	13	16QAM	21.67
21100	5	25	0	16QAM	21.54
21425	5	1	0	QPSK	22.98
21425	5	1	12	QPSK	22.93
21425	5	1	24	QPSK	22.98
21425	5	12	0	QPSK	22.13
21425	5	12	6	QPSK	22.18
21425	5	12	13	QPSK	22.03
21425	5	25	0	QPSK	22.24
21425	5	1	0	16QAM	22.49
21425	5	1	12	16QAM	22.35
21425	5	1	24	16QAM	22.41
21425	5	12	0	16QAM	21.58
21425	5	12	6	16QAM	21.47

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21425	5	12	13	16QAM	21.59
21425	5	25	0	16QAM	21.58
20800	10	1	0	QPSK	23.12
20800	10	1	24	QPSK	23.08
20800	10	1	49	QPSK	23.01
20800	10	25	0	QPSK	22.31
20800	10	25	12	QPSK	22.36
20800	10	25	25	QPSK	22.46
20800	10	50	0	QPSK	22.28
20800	10	1	0	16QAM	22.02
20800	10	1	24	16QAM	21.93
20800	10	1	49	16QAM	21.94
20800	10	25	0	16QAM	21.16
20800	10	25	12	16QAM	21.11
20800	10	25	25	16QAM	21.04
20800	10	50	0	16QAM	21.05
21100	10	1	0	QPSK	23.05
21100	10	1	24	QPSK	23.01
21100	10	1	49	QPSK	23.11
21100	10	25	0	QPSK	22.37
21100	10	25	12	QPSK	22.42
21100	10	25	25	QPSK	22.35
21100	10	50	0	QPSK	22.31
21100	10	1	0	16QAM	22.17
21100	10	1	24	16QAM	21.99
21100	10	1	49	16QAM	21.97
21100	10	25	0	16QAM	21.11
21100	10	25	12	16QAM	21.15
21100	10	25	25	16QAM	21.13
21100	10	50	0	16QAM	21.12
21400	10	1	0	QPSK	23.05
21400	10	1	24	QPSK	23.02
21400	10	1	49	QPSK	23.01
21400	10	25	0	QPSK	22.29
21400	10	25	12	QPSK	22.39
21400	10	25	24	QPSK	22.31
21400	10	50	0	QPSK	22.35
21400	10	1	0	16QAM	22.18
21400	10	1	24	16QAM	21.99
21400	10	1	49	16QAM	22.14
21400	10	25	0	16QAM	21.18
21400	10	25	12	16QAM	21.08
21400	10	25	24	16QAM	21.09

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21400	10	50	0	16QAM	21.07
20825	15	1	0	QPSK	23.13
20825	15	1	37	QPSK	23.11
20825	15	1	74	QPSK	23.01
20825	15	38	0	QPSK	22.15
20825	15	38	19	QPSK	22.18
20825	15	38	39	QPSK	22.17
20825	15	75	0	QPSK	22.19
20825	15	1	0	16QAM	22.05
20825	15	1	37	16QAM	22.01
20825	15	1	74	16QAM	21.95
20825	15	38	0	16QAM	21.27
20825	15	38	19	16QAM	21.35
20825	15	38	39	16QAM	21.34
20825	15	75	0	16QAM	21.35
21100	15	1	0	QPSK	23.03
21100	15	1	37	QPSK	23.12
21100	15	1	74	QPSK	22.96
21100	15	38	0	QPSK	22.21
21100	15	38	19	QPSK	22.08
21100	15	38	39	QPSK	22.21
21100	15	75	0	QPSK	22.17
21100	15	1	0	16QAM	22.09
21100	15	1	37	16QAM	21.99
21100	15	1	74	16QAM	22.17
21100	15	38	0	16QAM	21.21
21100	15	38	19	16QAM	21.18
21100	15	38	39	16QAM	21.12
21100	15	75	0	16QAM	21.15
21375	15	1	0	QPSK	23.02
21375	15	1	37	QPSK	23.1
21375	15	1	74	QPSK	22.94
21375	15	38	0	QPSK	22.14
21375	15	38	19	QPSK	22.11
21375	15	38	39	QPSK	22.13
21375	15	75	0	QPSK	22.11
21375	15	1	0	16QAM	22.32
21375	15	1	37	16QAM	22.27
21375	15	1	74	16QAM	22.19
21375	15	38	0	16QAM	21.38
21375	15	38	19	16QAM	21.45
21375	15	38	39	16QAM	21.48
21375	15	75	0	16QAM	21.54

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20850	20	1	0	QPSK	23.14
20850	20	1	49	QPSK	23.02
20850	20	1	99	QPSK	23.09
20850	20	50	0	QPSK	22.35
20850	20	50	24	QPSK	22.31
20850	20	50	50	QPSK	22.17
20850	20	100	0	QPSK	22.25
20850	20	1	0	16QAM	21.76
20850	20	1	49	16QAM	21.57
20850	20	1	99	16QAM	21.67
20850	20	50	0	16QAM	21.26
20850	20	50	24	16QAM	21.19
20850	20	50	50	16QAM	21.21
20850	20	100	0	16QAM	21.25
21100	20	1	0	QPSK	23.1
21100	20	1	49	QPSK	23.08
21100	20	1	99	QPSK	23.09
21100	20	50	0	QPSK	22.25
21100	20	50	24	QPSK	22.18
21100	20	50	50	QPSK	22.13
21100	20	100	0	QPSK	22.15
21100	20	1	0	16QAM	21.72
21100	20	1	49	16QAM	21.68
21100	20	1	99	16QAM	21.75
21100	20	50	0	16QAM	21.16
21100	20	50	24	16QAM	21.26
21100	20	50	50	16QAM	21.19
21100	20	100	0	16QAM	21.14
21350	20	1	0	QPSK	23.16
21350	20	1	49	QPSK	23.09
21350	20	1	99	QPSK	23.08
21350	20	50	0	QPSK	22.26
21350	20	50	24	QPSK	22.19
21350	20	50	50	QPSK	22.18
21350	20	100	0	QPSK	22.19
21350	20	1	0	16QAM	21.82
21350	20	1	49	16QAM	21.78
21350	20	1	99	16QAM	21.86
21350	20	50	0	16QAM	21.35
21350	20	50	24	16QAM	21.25
21350	20	50	50	16QAM	21.18
21350	20	100	0	16QAM	21.18

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LTE FDD 17					
Channel	Bandwidth(MHz)	RB Size	RB offset	Modulation	AV Power (dBm)
23755	5	1	0	QPSK	23.91
23755	5	1	12	QPSK	23.81
23755	5	1	24	QPSK	23.86
23755	5	12	0	QPSK	22.95
23755	5	12	6	QPSK	22.91
23755	5	12	13	QPSK	22.99
23755	5	25	0	QPSK	22.99
23755	5	1	0	16QAM	22.76
23755	5	1	12	16QAM	22.79
23755	5	1	24	16QAM	22.89
23755	5	12	0	16QAM	22.02
23755	5	12	6	16QAM	22.04
23755	5	12	13	16QAM	21.93
23755	5	25	0	16QAM	21.91
23790	5	1	0	QPSK	23.92
23790	5	1	12	QPSK	23.89
23790	5	1	24	QPSK	23.98
23790	5	12	0	QPSK	22.98
23790	5	12	6	QPSK	22.86
23790	5	12	13	QPSK	22.8
23790	5	25	0	QPSK	22.99
23790	5	1	0	16QAM	22.81
23790	5	1	12	16QAM	22.75
23790	5	1	24	16QAM	22.69
23790	5	12	0	16QAM	22.02
23790	5	12	6	16QAM	22.08
23790	5	12	13	16QAM	21.96
23790	5	25	0	16QAM	21.99
23825	5	1	0	QPSK	23.81
23825	5	1	12	QPSK	23.81
23825	5	1	24	QPSK	23.78
23825	5	12	0	QPSK	22.91
23825	5	12	6	QPSK	22.83
23825	5	12	13	QPSK	22.81
23825	5	25	0	QPSK	22.86
23825	5	1	0	16QAM	22.79
23825	5	1	12	16QAM	22.71

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23825	5	1	24	16QAM	22.65
23825	5	12	0	16QAM	22.12
23825	5	12	6	16QAM	22.08
23825	5	12	13	16QAM	21.95
23825	5	25	0	16QAM	21.97
23780	10	1	0	QPSK	24.04
23780	10	1	24	QPSK	23.98
23780	10	1	49	QPSK	23.87
23780	10	25	0	QPSK	23.14
23780	10	25	12	QPSK	23.07
23780	10	25	25	QPSK	23.16
23780	10	50	0	QPSK	23.13
23780	10	1	0	16QAM	23.01
23780	10	1	24	16QAM	22.98
23780	10	1	49	16QAM	22.89
23780	10	25	0	16QAM	22.28
23780	10	25	12	16QAM	22.36
23780	10	25	25	16QAM	22.43
23780	10	50	0	16QAM	22.18
23790	10	1	0	QPSK	24.04
23790	10	1	24	QPSK	23.97
23790	10	1	49	QPSK	23.97
23790	10	25	0	QPSK	23.08
23790	10	25	12	QPSK	23.15
23790	10	25	25	QPSK	23.11
23790	10	50	0	QPSK	23.09
23790	10	1	0	16QAM	22.97
23790	10	1	24	16QAM	22.96
23790	10	1	49	16QAM	22.87
23790	10	25	0	16QAM	22.14
23790	10	25	12	16QAM	22.19
23790	10	25	25	16QAM	22.11
23790	10	50	0	16QAM	22.06
23800	10	1	0	QPSK	24.02
23800	10	1	24	QPSK	23.98
23800	10	1	49	QPSK	23.89
23800	10	25	0	QPSK	23.08
23800	10	25	12	QPSK	23.11
23800	10	25	25	QPSK	23.12
23800	10	50	0	QPSK	23.15

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23800	10	1	0	16QAM	22.92
23800	10	1	24	16QAM	22.97
23800	10	1	49	16QAM	22.87
23800	10	25	0	16QAM	21.93
23800	10	25	12	16QAM	21.96
23800	10	25	25	16QAM	21.99
23800	10	50	0	16QAM	21.98

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The average output power of BT antenna is as following:

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz
GFSK(dBm)	3.16	4.84	4.17
$\pi/4$ DQPSK(dBm)	3.31	5.01	4.25
8DPSK(dBm)	3.70	5.38	4.61

The output power of WIFI antenna is as following:

Mode	Channel	Data rate (Mbps)	AV Power (dBm)
802.11b	1	1	18.26
		2	18.14
		5.5	18.34
		11	17.81
	6	1	18.32
		2	18.28
		5.5	18.43
		11	17.94
	11	1	18.34
		2	18.27
		5.5	18.47
		11	17.93
802.11g	1	6	13.69
		9	13.63
		12	13.56
		18	13.42
		24	13.27
		36	13.01
		48	12.78
		54	12.64
	6	6	14.03
		9	13.87
		12	13.78
		18	13.64
		24	13.48
		36	13.24
		48	13.03
		54	12.91
	11	6	14.01
		9	13.82
		12	13.76

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802.11n HT20		18	13.62
		24	13.46
		36	13.22
		48	13.00
		54	12.92
	1	MCS0	11.68
		MCS1	11.54
		MCS2	11.38
		MCS3	11.22
		MCS4	11.01
		MCS5	10.74
		MCS6	10.63
		MCS7	10.53
	6	MCS0	11.92
		MCS1	11.78
		MCS2	11.67
		MCS3	11.47
		MCS4	11.24
		MCS5	10.98
		MCS6	10.89
		MCS7	10.78
	11	MCS0	11.91
		MCS1	11.78
		MCS2	11.64
		MCS3	11.45
		MCS4	11.19
		MCS5	10.95
		MCS6	10.88
		MCS7	10.79

8.2. 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 not required;

$$\text{Head Evaluation} = [10^{(5.5/10)}/5] * (2.480^{1/2}) = 1.12 < 3.0$$

$$\text{Body Evaluation} = [10^{(5.5/10)}/10] * (2.480^{1/2}) = 0.56 < 3.0$$

Based on the above equation, WIFI SAR was required;

$$\text{Head Evaluation} = [10^{(19/10)}/5] * (2.462^{1/2}) = 19.21 > 3.0$$

$$\text{Body Evaluation} = [10^{(19/10)}/10] * (2.462^{1/2}) = 9.60 > 3.0$$

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Table 15: SAR Values [GSM 850 (GSM/GPRS/EGPRS)]

Test Position	Channel/ Frequency (MHz)	Time slot	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	251/848.8	GSM	1:8.3	33.7	33	-0.049	0.262	1.17	0.308	Figure21
	190/836.6	GSM	1:8.3	33.7	33.12	0.06	0.321	1.14	0.367	Figure22
	128/824.4	GSM	1:8.3	33.7	33.23	0.11	0.336	1.11	0.374	Figure23
Left/Tilt	251/848.8	GSM	1:8.3	33.7	33	0.08	0.262	1.17	0.308	Figure24
	190/836.6	GSM	1:8.3	33.7	33.12	-0.06	0.271	1.14	0.310	Figure25
	128/824.4	GSM	1:8.3	33.7	33.23	0.08	0.281	1.11	0.313	Figure26
Right/Cheek	251/848.8	GSM	1:8.3	33.7	33	-0.01	0.322	1.17	0.378	Figure27
	190/836.6	GSM	1:8.3	33.7	33.12	-0.1	0.364	1.14	0.416	Figure28
	128/824.4	GSM	1:8.3	33.7	33.23	0.07	0.368	1.11	0.410	Figure29
Right/Tilt	251/848.8	GSM	1:8.3	33.7	33	0.031	0.284	1.17	0.334	Figure30
	190/836.6	GSM	1:8.3	33.7	33.12	0.01	0.288	1.14	0.329	Figure31
	128/824.4	GSM	1:8.3	33.7	33.23	0.05	0.302	1.11	0.337	Figure32
Worst Case Position of Head with Battery 2										
Right/Cheek	190/836.6	GSM	1:8.3	33.7	33.12	0.08	0.353	1.14	0.403	Figure33
Test position of Body (Distance 10mm)										
Back Side	251/848.8	2Txslots	1:4.15	32.2	31.4	0.11	0.964	1.20	1.159	Figure34
	190/836.6	2Txslots	1:4.15	32.2	31.25	-0.04	0.86	1.24	1.070	Figure35
	128/824.4	2Txslots	1:4.15	32.2	31.25	-0.05	0.88	1.24	1.095	Figure36
Front Side	251/848.8	2Txslots	1:4.15	32.2	31.4	0.03	0.534	1.20	0.642	Figure37
	190/836.6	2Txslots	1:4.15	32.2	31.25	-0.01	0.67	1.24	0.834	Figure38
	128/824.4	2Txslots	1:4.15	32.2	31.25	0.17	0.493	1.24	0.614	Figure39
Left Edge	190/836.6	2Txslots	1:4.15	32.2	31.25	-0.06	0.44	1.24	0.548	Figure40
Right Edge	251/848.8	2Txslots	1:4.15	32.2	31.4	-0.002	0.608	1.20	0.731	Figure41
	190/836.6	2Txslots	1:4.15	32.2	31.25	-0.14	0.784	1.24	0.976	Figure42
	128/824.4	2Txslots	1:4.15	32.2	31.25	-0.13	0.617	1.24	0.768	Figure43
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	190/836.6	2Txslots	1:4.15	32.2	31.25	0.021	0.199	1.24	0.248	Figure44
Worst Case Position of Body with EGPRS (Distance 10mm)										

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Back Side	251/848.8	2Txslots	1:4.15	32.2	31.4	0.01	0.913	1.20	1.098	Figure45
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	251/848.8	2Txslots	1:4.15	32.2	31.4	0.08	0.949	1.20	1.141	Figure46
Worst Case Position of SAR(1st Repeated SAR, Distance 10mm)										
Back Side	251/848.8	2Txslots	1:4.15	32.2	31.4	-0.04	0.939	1.20	1.129	Figure47

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

2. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.
3. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

Table 16: SAR Measurement Variability Results [GSM 850(GSM/GPRS/EGPRS)]

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Back Side	251/848.8	0.964	0.939	1.03	N/A	N/A

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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8.3.2. GSM 850 DTM

Table 17: SAR Values (GSM 850 DTM)

Test Position	Channel/ Frequency (MHz)	Time slot	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	251/848.8	DTM(2Down2UP)	1:4.15	32.2	30.91	-0.023	0.419	1.35	0.564	Figure48
	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	-0.057	0.424	1.30	0.550	Figure49
	128/824.4	DTM(2Down2UP)	1:4.15	32.2	30.71	0.15	0.394	1.41	0.555	Figure50
Left/Tilt	251/848.8	DTM(2Down2UP)	1:4.15	32.2	30.91	0.06	0.361	1.35	0.486	Figure51
	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	0.19	0.376	1.30	0.488	Figure52
	128/824.4	DTM(2Down2UP)	1:4.15	32.2	30.71	0.025	0.354	1.41	0.499	Figure53
Right/Cheek	251/848.8	DTM(2Down2UP)	1:4.15	32.2	30.91	0.09	0.454	1.35	0.611	Figure54
	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	0.05	0.469	1.30	0.608	Figure55
	128/824.4	DTM(2Down2UP)	1:4.15	32.2	30.71	0.048	0.449	1.41	0.633	Figure56
Right/Tilt	251/848.8	DTM(2Down2UP)	1:4.15	32.2	30.91	0.01	0.35	1.35	0.471	Figure57
	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	-0.04	0.376	1.30	0.488	Figure58
	128/824.4	DTM(2Down2UP)	1:4.15	32.2	30.71	-0.01	0.37	1.41	0.521	Figure59
Worst Case Position of Head with Battery 2										
Right/Cheek	128/824.4	DTM(2Down2UP)	1:4.15	32.2	31.07	0.18	0.469	1.30	0.608	Figure60
Test position of Body (Distance 10mm)										
Back Side	251/848.8	DTM(2Down2UP)	1:4.15	32.2	30.91	-0.02	0.894	1.35	1.203	Figure61
	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	-0.002	0.781	1.30	1.013	Figure62
	128/824.4	DTM(2Down2UP)	1:4.15	32.2	30.71	0.020	0.869	1.41	1.225	Figure63
Front Side	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	-0.06	0.507	1.30	0.658	Figure64
Left Edge	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	-0.06	0.342	1.30	0.444	Figure65
Right Edge	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	-0.07	0.504	1.30	0.654	Figure66
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	190/836.6	DTM(2Down2UP)	1:4.15	32.2	31.07	-0.19	0.164	1.30	0.213	Figure67
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	128/824.4	DTM(2Down2UP)	1:4.15	32.2	30.71	-0.01	0.86	1.41	1.212	Figure68
Worst Case Position of Body with earphone 1 (Distance 10mm)										
Back Side	128/824.4	DTM(2Down2UP)	1:4.15	32.2	30.71	0.01	0.523	1.41	0.737	Figure69
Worst Case Position of Body with earphone 2 (Distance 10mm)										
Back Side	128/824.4	DTM(2Down2UP)	1:4.15	32.2	30.71	0.07	0.585	1.41	0.825	Figure70
Worst Case Position of SAR(1 st Repeated SAR, Distance 10mm)										
Back Side	251/848.8	DTM(2Down2UP)	1:4.15	32.2	30.91	0.01	0.86	1.35	1.157	Figure71

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

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Table 18: SAR Measurement Variability Results [GSM 850 DTM (GSM/GPRS/EGPRS)]

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Back Side	251/848.8	0.894	0.86	1.04	N/A	N/A

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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8.3.3. GSM 1900 (GSM/GPRS/EGPRS)

Table 19: SAR Values [GSM 1900(GSM/GPRS/EGPRS)]

Test Position	Channel/ Frequency (MHz)	Time slot	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	810/1909.8	GSM	1:8.3	30.7	30.11	0.031	0.23	1.15	0.263	Figure72
	661/1880	GSM	1:8.3	30.7	30.16	0.07	0.272	1.13	0.308	Figure73
	512/1850.2	GSM	1:8.3	30.7	30.01	0.15	0.285	1.17	0.334	Figure74
Left/Tilt	810/1909.8	GSM	1:8.3	30.7	30.11	0.07	0.112	1.15	0.128	Figure75
	661/1880	GSM	1:8.3	30.7	30.16	0.01	0.142	1.13	0.161	Figure76
	512/1850.2	GSM	1:8.3	30.7	30.01	-0.05	0.15	1.17	0.176	Figure77
Right/Cheek	810/1909.8	GSM	1:8.3	30.7	30.11	0.054	0.325	1.15	0.372	Figure78
	661/1880	GSM	1:8.3	30.7	30.16	0.03	0.412	1.13	0.467	Figure79
	512/1850.2	GSM	1:8.3	30.7	30.01	0.08	0.442	1.17	0.518	Figure80
Right/Tilt	810/1909.8	GSM	1:8.3	30.7	30.11	0.08	0.104	1.15	0.119	Figure81
	661/1880	GSM	1:8.3	30.7	30.16	0.08	0.132	1.13	0.152	Figure82
	512/1850.2	GSM	1:8.3	30.7	30.01	-0.01	0.148	1.17	0.173	Figure83
Worst Case Position of Head with Battery 2										
Right/Cheek	512/1850.2	GSM	1:8.3	30.7	30.01	-0.01	0.43	1.17	0.504	Figure84
Test position of Body (Distance 10mm)										
Back Side	810/1909.8	4Txslots	1:2.07	26.5	25.73	-0.12	0.603	1.19	0.720	Figure85
	661/1880	4Txslots	1:2.07	26.5	25.73	-0.12	0.735	1.19	0.878	Figure86
	512/1850.2	4Txslots	1:2.07	26.5	25.75	-0.03	0.788	1.19	0.937	Figure87
Front Side	810/1909.8	4Txslots	1:2.07	26.5	25.73	0.07	0.738	1.19	0.881	Figure88
	661/1880	4Txslots	1:2.07	26.5	25.73	-0.16	0.672	1.19	0.802	Figure89
	512/1850.2	4Txslots	1:2.07	26.5	25.75	-0.02	0.609	1.19	0.724	Figure90
Left Edge	661/1880	4Txslots	1:2.07	26.5	25.73	0.12	0.188	1.19	0.224	Figure91
Right Edge	661/1880	4Txslots	1:2.07	26.5	25.73	0.02	0.181	1.19	0.216	Figure92
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	661/1880	4Txslots	1:2.07	26.5	25.73	-0.04	0.634	1.19	0.757	Figure93
Worst Case Position of Body with EGPRS (Distance 10mm)										
Back Side	512/1850.2	4Txslots	1:2.07	26.5	25.75	-0.025	0.654	1.19	0.777	Figure94
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	512/1850.2	4Txslots	1:2.07	26.5	25.75	-0.026	0.708	1.19	0.841	Figure95

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

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8.3.4. GSM 1900 DTM

Table 20: SAR Values [GSM 1900 DTM]

Test Position	Channel/ Frequency (MHz)	Time slot	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	810/1909.8	DTM(2Down3UP)	1:2.76	27.7	26.55	0.08	0.311	1.30	0.405	Figure96
	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	0.022	0.405	1.26	0.512	Figure97
	512/1850.2	DTM(2Down3UP)	1:2.76	27.7	26.66	-0.01	0.468	1.27	0.595	Figure98
Left/Tilt	810/1909.8	DTM(2Down3UP)	1:2.76	27.7	26.55	0.021	0.156	1.30	0.203	Figure99
	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	0.15	0.213	1.26	0.269	Figure100
	512/1850.2	DTM(2Down3UP)	1:2.76	27.7	26.66	-0.07	0.22	1.27	0.280	Figure101
Right/Cheek	810/1909.8	DTM(2Down3UP)	1:2.76	27.7	26.55	0.024	0.394	1.30	0.513	Figure102
	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	0.11	0.541	1.26	0.684	Figure103
	512/1850.2	DTM(2Down3UP)	1:2.76	27.7	26.66	0.041	0.573	1.27	0.728	Figure104
Right/Tilt	810/1909.8	DTM(2Down3UP)	1:2.76	27.7	26.55	0.027	0.148	1.30	0.193	Figure105
	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	0.022	0.194	1.26	0.245	Figure106
	512/1850.2	DTM(2Down3UP)	1:2.76	27.7	26.66	0.08	0.218	1.27	0.277	Figure107
Worst Case Position of Head with Battery 2										
Right/Cheek	512/1850.2	DTM(2Down3UP)	1:2.76	27.7	26.66	0.025	0.515	1.27	0.654	Figure108
Test position of Body (Distance 10mm)										
Back Side	810/1909.8	DTM(2Down3UP)	1:2.76	27.7	26.55	-0.1	0.641	1.30	0.835	Figure109
	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	-0.13	0.759	1.26	0.960	Figure110
	512/1850.2	DTM(2Down3UP)	1:2.76	27.7	26.66	-0.16	0.748	1.27	0.950	Figure111
Front Side	810/1909.8	DTM(2Down3UP)	1:2.76	27.7	26.55	0.01	0.64	1.30	0.834	Figure112
	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	-0.05	0.741	1.26	0.937	Figure113
	512/1850.2	DTM(2Down3UP)	1:2.76	27.7	26.66	-0.123	0.72	1.27	0.915	Figure114
Left Edge	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	0.020	0.158	1.26	0.200	Figure115
Right Edge	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	0.08	0.178	1.26	0.225	Figure116
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	0.042	0.629	1.26	0.796	Figure117
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	661/1880	DTM(2Down3UP)	1:2.76	27.7	26.68	-0.16	0.769	1.26	0.973	Figure118

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

3. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required..

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8.3.5. UMTS Band II (WCDMA/HSDPA/HSUPA)

Table 21: SAR Values [UMTS Band II (WCDMA/HSDPA/HSUPA)]

Test Position	Channel/ Frequency (MHz)	Channel Type	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	9538/1907.6	RMC 12.2K	1:1	24.2	23.23	0.069	0.342	1.25	0.428	Figure119
	9400/1880	RMC 12.2K	1:1	24.2	23.5	0.056	0.456	1.17	0.536	Figure120
	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	0.028	0.535	1.19	0.639	Figure121
Left/Tilt	9538/1907.6	RMC 12.2K	1:1	24.2	23.23	0.11	0.175	1.25	0.219	Figure122
	9400/1880	RMC 12.2K	1:1	24.2	23.5	0.15	0.254	1.17	0.298	Figure123
	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	0.01	0.297	1.19	0.355	Figure124
Right/Cheek	9538/1907.6	RMC 12.2K	1:1	24.2	23.23	0.049	0.439	1.25	0.549	Figure125
	9400/1880	RMC 12.2K	1:1	24.2	23.5	0.024	0.62	1.17	0.728	Figure126
	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	0.12	0.763	1.19	0.911	Figure127
Right/Tilt	9538/1907.6	RMC 12.2K	1:1	24.2	23.23	0.024	0.166	1.25	0.208	Figure128
	9400/1880	RMC 12.2K	1:1	24.2	23.5	0.021	0.233	1.17	0.274	Figure129
	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	0.08	0.3	1.19	0.358	Figure130
Worst Case Position of Head with Battery 2										
Right/Cheek	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	0.034	0.774	1.19	0.924	Figure131
Test position of Body (Distance 10mm)										
Back Side	9538/1907.6	RMC 12.2K	1:1	24.2	23.23	-0.06	0.765	1.25	0.956	Figure132
	9400/1880	RMC 12.2K	1:1	24.2	23.5	0.04	0.924	1.17	1.086	Figure133
	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	-0.06	0.968	1.19	1.156	Figure134
Front Side	9400/1880	RMC 12.2K	1:1	24.2	23.5	0.01	0.67	1.17	0.787	Figure135
Left Edge	9400/1880	RMC 12.2K	1:1	24.2	23.5	-0.03	0.212	1.17	0.249	Figure136
Right Edge	9400/1880	RMC 12.2K	1:1	24.2	23.5	-0.13	0.205	1.17	0.241	Figure137
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	9538/1907.6	RMC 12.2K	1:1	24.2	23.23	0.08	0.807	1.25	1.009	Figure138
	9400/1880	RMC 12.2K	1:1	24.2	23.5	0.17	0.886	1.17	1.041	Figure139
	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	0.13	0.902	1.19	1.077	Figure140
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	0.09	0.986	1.19	1.177	Figure141
Worst Case Position of SAR (1 st Repeated SAR, Distance 10mm)										
Back Side	9262/1852.4	RMC 12.2K	1:1	24.2	23.43	-0.04	0.956	1.19	1.141	Figure142

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

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configuration(s).

3. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
4. WCDMA mode were tested under RMC 12.2kbps without HSPA (HSDPA/HSUPA) inactive per KDB Publication 941225 D01. HSPA (HSDPA/HSUPA) SAR for body was not required since the average output power of the HSPA (HSDPA/HSUPA) subtests was not more than 0.25 dB higher than the RMC level and the maximum SAR for 12.2kbps RMC was less than 75% SAR limit.
5. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

Table 22: SAR Measurement Variability Results [UMTS Band II (WCDMA/HSDPA/HSUPA)]

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Back Side	9262/1852.4	0.986	0.956	1.03	N/A	N/A

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 ($\sim 10\%$ 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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8.3.6. UMTS Band V (WCDMA/HSDPA/HSUPA)

Table 23: SAR Values [UMTS Band V (WCDMA/HSDPA/HSUPA)]

Test Position	Channel/ Frequency (MHz)	Channel Type	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	4233/846.6	RMC 12.2K	1:1	24.7	24.03	0.033	0.339	1.17	0.396	Figure143
	4183/836.6	RMC 12.2K	1:1	24.7	24.15	0.038	0.394	1.14	0.447	Figure144
	4132/826.4	RMC 12.2K	1:1	24.7	24.15	0.03	0.452	1.14	0.513	Figure145
Left/Tilt	4233/846.6	RMC 12.2K	1:1	24.7	24.03	-0.05	0.336	1.17	0.392	Figure146
	4183/836.6	RMC 12.2K	1:1	24.7	24.15	-0.02	0.386	1.14	0.438	Figure147
	4132/826.4	RMC 12.2K	1:1	24.7	24.15	-0.032	0.432	1.14	0.490	Figure148
Right/Cheek	4233/846.6	RMC 12.2K	1:1	24.7	24.03	0.032	0.384	1.17	0.448	Figure149
	4183/836.6	RMC 12.2K	1:1	24.7	24.15	-0.057	0.437	1.14	0.496	Figure150
	4132/826.4	RMC 12.2K	1:1	24.7	24.15	0.1	0.493	1.14	0.560	Figure151
Right/Tilt	4233/846.6	RMC 12.2K	1:1	24.7	24.03	0.01	0.331	1.17	0.386	Figure152
	4183/836.6	RMC 12.2K	1:1	24.7	24.15	-0.01	0.384	1.14	0.436	Figure153
	4132/826.4	RMC 12.2K	1:1	24.7	24.15	0.1	0.426	1.14	0.484	Figure154
Worst Case Position of Head with Battery 2										
Right/Cheek	4132/826.4	RMC 12.2K	1:1	24.7	24.15	-0.18	0.495	1.14	0.562	Figure155
Test position of Body (Distance 10mm)										
Back Side	4233/846.6	RMC 12.2K	1:1	24.7	24.03	-0.020	0.638	1.17	0.744	Figure156
	4183/836.6	RMC 12.2K	1:1	24.7	24.15	-0.07	0.727	1.14	0.825	Figure157
	4132/826.4	RMC 12.2K	1:1	24.7	24.15	-0.05	0.763	1.14	0.866	Figure158
Front Side	4183/836.6	RMC 12.2K	1:1	24.7	24.15	-0.01	0.607	1.14	0.689	Figure159
Left Edge	4183/836.6	RMC 12.2K	1:1	24.7	24.15	0.06	0.403	1.14	0.457	Figure160
Right Edge	4183/836.6	RMC 12.2K	1:1	24.7	24.15	-0.12	0.575	1.14	0.653	Figure161
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	4183/836.6	RMC 12.2K	1:1	24.7	24.15	-0.06	0.173	1.14	0.196	Figure162
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	4132/826.4	RMC 12.2K	1:1	24.7	24.15	-0.04	0.762	1.14	0.865	Figure163

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

- 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).
- WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
- WCDMA mode were tested under RMC 12.2kbps without HSPA (HSDPA/HSUPA) inactive per KDB Publication 941225 D01. HSPA (HSDPA/HSUPA) SAR for body was not required since the average output power of the HSPA (HSDPA/HSUPA) subtests was not more than 0.25 dB higher than the RMC level and the maximum SAR for 12.2kbps RMC was less than 75% SAR limit.
- Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

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8.3.7. LTE Band 2

Table 24: SAR Values (LTE Band 2/20MHz/1RB)

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 with 1RB										
Left/Cheek	19100/1900	QPSK 1RB 0 offset	1:1	23.7	22.91	0.039	0.175	1.20	0.210	Figure164
	18900/1880	QPSK 1RB 0 Offset	1:1	23.7	23.05	-0.09	0.18	1.16	0.209	Figure165
	18700/1860	QPSK 1RB 0 offset	1:1	23.7	22.91	0.2	0.233	1.20	0.279	Figure166
Left/Tilt	19100/1900	QPSK 1RB 0 offset	1:1	23.7	22.91	0.025	0.0911	1.20	0.109	Figure167
	18900/1880	QPSK 1RB 0 Offset	1:1	23.7	23.05	0.16	0.11	1.16	0.128	Figure168
	18700/1860	QPSK 1RB 0 offset	1:1	23.7	22.91	0.17	0.11	1.20	0.132	Figure169
Right/Cheek	19100/1900	QPSK 1RB 0 offset	1:1	23.7	22.91	0.078	0.22	1.20	0.264	Figure170
	18900/1880	QPSK 1RB 0 Offset	1:1	23.7	23.05	0.17	0.254	1.16	0.295	Figure171
	18700/1860	QPSK 1RB 0 offset	1:1	23.7	22.91	0.069	0.284	1.20	0.341	Figure172
Right/Tilt	19100/1900	QPSK 1RB 0 offset	1:1	23.7	22.91	0.14	0.0725	1.20	0.087	Figure173
	18900/1880	QPSK 1RB 0 Offset	1:1	23.7	23.05	0.031	0.0838	1.16	0.097	Figure174
	18700/1860	QPSK 1RB 0 offset	1:1	23.7	22.91	0.21	0.109	1.20	0.131	Figure175
Worst Case Position of Head with Battery 2										
Right/Cheek	18700/1860	QPSK 1RB 0 offset	1:1	23.7	22.91	0.072	0.254	1.20	0.305	Figure176
Test position of Body with 1RB (Distance 10mm)										
Back Side	18900/1880	QPSK 1RB 0 offset	1:1	23.7	23.05	-0.084	0.688	1.16	0.799	Figure177
Front Side	18900/1880	QPSK 1RB 0 offset	1:1	23.7	23.05	-0.06	0.332	1.16	0.386	Figure178
Left Edge	18900/1880	QPSK 1RB 0 offset	1:1	23.7	23.05	0.026	0.090	1.16	0.105	Figure179
Right Edge	18900/1880	QPSK 1RB 0 offset	1:1	23.7	23.05	0.08	0.098	1.16	0.114	Figure180
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	19100/1900	QPSK 1RB 0 offset	1:1	23.7	22.91	0.04	0.854	1.20	1.024	Figure181
	18900/1880	QPSK 1RB 0 Offset	1:1	23.7	23.05	-0.13	0.761	1.16	0.884	Figure182
	18700/1860	QPSK 1RB 0 offset	1:1	23.7	22.91	0.07	0.729	1.20	0.874	Figure183
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Bottom Edge	19100/1900	QPSK 1RB 0 Offset	1:1	23.7	22.91	0.04	0.878	1.20	1.053	Figure184
Worst Case Position of SAR (1 st Repeated SAR, Distance 10mm)										
Bottom Edge	19100/1900	QPSK 1RB 0 Offset	1:1	23.7	22.91	0.11	0.885	1.20	1.062	Figure185

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

3. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

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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 ($\sim 10\%$ 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 (LTE Band 2/20MHz/50%RB)

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 with 50%RB										
Left/Cheek	19100/1900	QPSK 50%RB 24 Offset	1:1	22.7	21.99	0.077	0.139	1.18	0.164	Figure186
	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	0.03	0.159	1.14	0.180	Figure187
	18700/1860	QPSK 50%RB 50 Offset	1:1	22.7	22.11	-0.01	0.18	1.15	0.206	Figure188
Left/Tilt	19100/1900	QPSK 50%RB 24 Offset	1:1	22.7	21.99	0.048	0.067	1.18	0.079	Figure189
	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	0.036	0.074	1.14	0.084	Figure190
	18700/1860	QPSK 50%RB 50 Offset	1:1	22.7	22.11	0.031	0.084	1.15	0.096	Figure191
Right/Cheek	19100/1900	QPSK 50%RB 24 Offset	1:1	22.7	21.99	0.111	0.171	1.18	0.201	Figure192
	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	0.094	0.195	1.14	0.221	Figure193
	18700/1860	QPSK 50%RB 50 Offset	1:1	22.7	22.11	0.1	0.222	1.15	0.254	Figure194
Right/Tilt	19100/1900	QPSK 50%RB 24 Offset	1:1	22.7	21.99	0.05	0.058	1.18	0.068	Figure195
	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	0.048	0.065	1.14	0.074	Figure196
	18700/1860	QPSK 50%RB 50 Offset	1:1	22.7	22.11	0.036	0.080	1.15	0.091	Figure197
Worst Case Position of Head with Battery 2										
Right/Cheek	18700/1860	QPSK 50%RB 50 Offset	1:1	22.7	22.11	0.035	0.197	1.15	0.226	Figure198
Test position of Body with 50%RB (Distance 10mm)										
Back Side	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	-0.1	0.46	1.14	0.522	Figure199
Front Side	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	0.06	0.262	1.14	0.297	Figure200
Left Edge	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	0.05	0.072	1.14	0.082	Figure201
Right Edge	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	0.2	0.077	1.14	0.088	Figure202
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	-0.12	0.613	1.14	0.696	Figure203
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Bottom Edge	18900/1880	QPSK 50%RB 50 Offset	1:1	22.7	22.15	-0.14	0.608	1.14	0.690	Figure204

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

3. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

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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 with 1RB										
Left/Cheek	20300/1745	QPSK 1RB 0 Offset	1:1	24.2	23.24	0.038	0.561	1.25	0.700	Figure205
	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	-0.024	0.58	1.23	0.715	Figure206
	20050/1720	QPSK 1RB 99Offset	1:1	24.2	23.31	0.038	0.586	1.23	0.719	Figure207
Left/Tilt	20300/1745	QPSK 1RB 0 Offset	1:1	24.2	23.24	0.19	0.286	1.25	0.357	Figure208
	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	0.16	0.301	1.23	0.371	Figure209
	20050/1720	QPSK 1RB 99Offset	1:1	24.2	23.31	0.09	0.304	1.23	0.373	Figure210
Right/Cheek	20300/1745	QPSK 1RB 0 Offset	1:1	24.2	23.24	0.027	0.859	1.25	1.072	Figure211
	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	-0.12	0.855	1.23	1.054	Figure212
	20050/1720	QPSK 1RB 99Offset	1:1	24.2	23.31	0.04	0.869	1.23	1.067	Figure213
Right/Tilt	20300/1745	QPSK 1RB 0 Offset	1:1	24.2	23.24	0.08	0.273	1.25	0.341	Figure214
	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	0.045	0.308	1.23	0.380	Figure215
	20050/1720	QPSK 1RB 99Offset	1:1	24.2	23.31	0.08	0.279	1.23	0.342	Figure216
Worst Case Position of Head with Battery 2										
Right/Cheek	20300/1745	QPSK 1RB 0 Offset	1:1	24.2	23.24	-0.05	0.776	1.25	0.968	Figure217
Test position of Body with 1RB (Distance 10mm)										
Back Side	20300/1745	QPSK 1RB 0 Offset	1:1	24.2	23.24	-0.04	0.791	1.25	0.987	Figure218
	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	-0.06	0.825	1.23	1.017	Figure219
	20050/1720	QPSK 1RB 99Offset	1:1	24.2	23.31	-0.05	0.977	1.23	1.199	Figure220
Front Side	20300/1745	QPSK 1RB 0 Offset	1:1	24.2	23.24	-0.04	0.899	1.25	1.121	Figure221
	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	-0.01	0.908	1.23	1.120	Figure222
	20050/1720	QPSK 1RB 99Offset	1:1	24.2	23.31	0	0.944	1.23	1.159	Figure223
Left Edge	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	0.12	0.32	1.23	0.395	Figure224
Right Edge	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	0.08	0.201	1.23	0.248	Figure225
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	20300/1745	QPSK 1RB 0 Offset	1:1	24.2	23.24	0.17	0.918	1.25	1.145	Figure226
	20175/1732.5	QPSK 1RB 99 Offset	1:1	24.2	23.29	-0.1	0.838	1.23	1.033	Figure227
	20050/1720	QPSK 1RB 99Offset	1:1	24.2	23.31	-0.01	0.764	1.23	0.938	Figure228
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	20050/1720	QPSK 1RB 99 Offset	1:1	24.2	23.31	-0.11	0.918	1.23	1.127	Figure229
Worst Case Position of SAR (1 st Repeated SAR, Distance 10mm)										
Back Side	20050/1720	QPSK 1RB 99 Offset	1:1	24.2	23.31	-0.19	1.05	1.23	1.289	Figure230
Worst Case Position of Body with Earphone 1 (Distance 10mm)										
Back Side	20050/1720	QPSK 1RB 99 Offset	1:1	24.2	23.31	0.01	0.994	1.23	1.220	Figure231
Worst Case Position of Body with Earphone 2 (Distance 10mm)										

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Test Position	Channel/ Frequency (MHz)	Mode	Duty Cycle	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift $\pm 0.21\text{dB}$	Limit SAR _{1g} 1.6 W/kg			
						Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Graph Results
Back Side	20050/1720	QPSK 1RB 99 Offset	1:1	24.2	23.31	0.07	0.991	1.23	1.216	Figure232

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

Table 28: SAR Measurement Variability Results [LTE Band 4/20MHz/1RB]

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Back Side	20050/1720	0.977	1.05	1.07	N/A	N/A

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 ($\sim 10\%$ 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 29: SAR Values (LTE Band 4/20MHz/50%RB)

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 with 50%RB										
Left/Cheek	20300/1745	QPSK 50%RB 50 Offset	1:1	23.2	22.82	0.053	0.448	1.09	0.489	Figure233
	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	0.055	0.461	1.19	0.548	Figure234
	20050/1720	QPSK 50%RB 50 Offset	1:1	23.2	22.49	0.058	0.452	1.18	0.532	Figure235
Left/Tilt	20300/1745	QPSK 50%RB 50 Offset	1:1	23.2	22.82	0.15	0.225	1.09	0.246	Figure236
	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	0.12	0.234	1.19	0.278	Figure237
	20050/1720	QPSK 50%RB 50 Offset	1:1	23.2	22.49	0.06	0.233	1.18	0.274	Figure238
Right/Cheek	20300/1745	QPSK 50%RB 50 Offset	1:1	23.2	22.82	0.032	0.661	1.09	0.721	Figure239
	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	0.028	0.692	1.19	0.822	Figure240
	20050/1720	QPSK 50%RB 50 Offset	1:1	23.2	22.49	0.036	0.697	1.18	0.821	Figure241
Right/Tilt	20300/1745	QPSK 50%RB 50 Offset	1:1	23.2	22.82	0.14	0.212	1.09	0.231	Figure242
	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	0.2	0.221	1.19	0.263	Figure243
	20050/1720	QPSK 50%RB 50 Offset	1:1	23.2	22.49	0.16	0.22	1.18	0.259	Figure244
Worst Case Position of Head with Battery 2										
Right/Cheek	20175/1732.5	QPSK 50%RB 50 Offset	1:1	23.2	22.49	0.03	0.643	1.18	0.757	Figure245
Test position of Body with 50%RB (Distance 10mm)										
Back Side	20300/1745	QPSK 50%RB 50 Offset	1:1	23.2	22.82	-0.01	0.753	1.09	0.822	Figure246
	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	-0.01	0.757	1.19	0.900	Figure247
	20050/1720	QPSK 50%RB 50 Offset	1:1	23.2	22.49	0.17	0.81	1.18	0.954	Figure248
Front Side	20300/1745	QPSK 50%RB 50 Offset	1:1	23.2	22.82	-0.03	0.686	1.09	0.749	Figure249
	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	-0.03	0.71	1.19	0.844	Figure250
	20050/1720	QPSK 50%RB 50 Offset	1:1	23.2	22.49	-0.01	0.743	1.18	0.875	Figure251
Left Edge	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	0.08	0.251	1.19	0.298	Figure252
Right Edge	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	0.13	0.163	1.19	0.194	Figure253
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	20175/1732.5	QPSK 50%RB 24 Offset	1:1	23.2	22.45	0.08	0.66	1.19	0.784	Figure254
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	20050/1720	QPSK 50%RB 24 Offset	1:1	23.2	22.45	-0.11	0.811	1.19	0.964	Figure255

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

3. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required..

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8.3.9. LTE Band 7

Table 30: SAR Values (LTE Band 7/20MHz/1RB)

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 with 1RB										
Left/Cheek	21350/2560	QPSK 1RB 0 Offset	1:1	24	23.16	0.002	0.091	1.21	0.110	Figure256
	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	0.122	0.107	1.23	0.132	Figure257
	20850/2510	QPSK 1RB 0 Offset	1:1	24	23.14	0.134	0.117	1.22	0.143	Figure258
Left/Tilt	21350/2560	QPSK 1RB 0 Offset	1:1	24	23.16	0.164	0.026	1.21	0.031	Figure259
	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	0.127	0.044	1.23	0.055	Figure260
	20850/2510	QPSK 1RB 0 Offset	1:1	24	23.14	0.092	0.037	1.22	0.046	Figure261
Right/Cheek	21350/2560	QPSK 1RB 0 Offset	1:1	24	23.16	0.138	0.230	1.21	0.279	Figure262
	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	0.025	0.230	1.23	0.283	Figure263
	20850/2510	QPSK 1RB 0 Offset	1:1	24	23.14	0.192	0.219	1.22	0.267	Figure264
Right/Tilt	21350/2560	QPSK 1RB 0 Offset	1:1	24	23.16	0.098	0.080	1.21	0.097	Figure265
	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	0.078	0.083	1.23	0.101	Figure266
	20850/2510	QPSK 1RB 0 Offset	1:1	24	23.14	0.068	0.095	1.22	0.116	Figure267
Worst Case Position of Head with Battery 2										
Right/Cheek	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.15	0.021	0.205	1.22	0.249	Figure268
Test position of Body with 1RB (Distance 10mm)										
Back Side	21350/2560	QPSK 1RB 0 Offset	1:1	24	23.16	0.01	0.591	1.21	0.717	Figure269
	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	-0.05	0.651	1.23	0.801	Figure270
	20850/2510	QPSK 1RB 0 Offset	1:1	24	23.1	-0.03	0.701	1.23	0.862	Figure271
Front Side	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	0.027	0.268	1.23	0.330	Figure272
Left Edge	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	0.17	0.059	1.23	0.072	Figure273
Right Edge	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	-0.02	0.14	1.23	0.172	Figure274
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	21100/2535	QPSK 1RB 0 Offset	1:1	24	23.1	-0.025	0.41	1.23	0.504	Figure275
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	20850/2510	QPSK 1RB 0 Offset	1:1	24	23.14	0.05	0.764	1.22	0.931	Figure276

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

3. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required..

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Table 31: SAR Values (LTE Band 7/20MHz/50%RB)

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 with 50%RB										
Left/Cheek	21350/2560	QPSK 50%RB 0 Offset	1:1	23	22.19	0.028	0.068	1.21	0.082	Figure277
	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	0.162	0.082	1.19	0.098	Figure278
	20850/2510	QPSK 50%RB 24 Offset	1:1	23	22.35	0.021	0.088	1.16	0.102	Figure279
Left/Tilt	21350/2560	QPSK 50%RB 0 Offset	1:1	23	22.19	0.025	0.019	1.21	0.023	Figure280
	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	0.026	0.020	1.19	0.024	Figure281
	20850/2510	QPSK 50%RB 24 Offset	1:1	23	22.35	0.118	0.037	1.16	0.043	Figure282
Right/Cheek	21350/2560	QPSK 50%RB 0 Offset	1:1	23	22.19	0.052	0.183	1.21	0.221	Figure283
	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	0.029	0.184	1.19	0.219	Figure284
	20850/2510	QPSK 50%RB 24 Offset	1:1	23	22.35	0.027	0.175	1.16	0.203	Figure285
Right/Tilt	21350/2560	QPSK 50%RB 0 Offset	1:1	23	22.19	0.013	0.065	1.21	0.078	Figure286
	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	0.010	0.065	1.19	0.077	Figure287
	20850/2510	QPSK 50%RB 24 Offset	1:1	23	22.35	0.082	0.072	1.16	0.084	Figure288
Worst Case Position of Head with Battery 2										
Right/Cheek	21350/2560	QPSK 50%RB 0 Offset	1:1	23	22.25	0.034	0.170	1.19	0.202	Figure289
Test position of Body with 50%RB (Distance 10mm)										
Back Side	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	0.150	0.583	1.19	0.693	Figure290
Front Side	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	0.050	0.218	1.19	0.259	Figure291
Left Edge	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	0.160	0.046	1.19	0.055	Figure292
Right Edge	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	0.070	0.113	1.19	0.134	Figure293
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	21100/2535	QPSK 50%RB 0 Offset	1:1	23	22.25	-0.029	0.332	1.19	0.395	Figure294
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	21100/2535	QPSK 1RB 0Offset	1:1	23	22.25	0.15	0.589	1.19	0.700	Figure295

Note: 1.The value with blue color is the maximum SAR Value of each test band.
2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
3. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required..

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8.3.10. LTE Band 17

Table 32: SAR Values (LTE Band 17/20MHz/1RB)

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 with 1RB										
Left/Cheek	23800/711	QPSK 1RB 0 Offset	1:1	24.2	24.02	0.032	0.286	1.04	0.298	Figure296
	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.19	0.338	1.04	0.351	Figure297
	23780/709	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.18	0.291	1.04	0.302	Figure298
Left/Tilt	23800/711	QPSK 1RB 0 Offset	1:1	24.2	24.02	0.18	0.218	1.04	0.227	Figure299
	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.20	0.200	1.04	0.208	Figure300
	23780/709	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.14	0.220	1.04	0.228	Figure301
Right/Cheek	23800/711	QPSK 1RB 0 Offset	1:1	24.2	24.02	-0.15	0.272	1.04	0.284	Figure302
	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	-0.16	0.273	1.04	0.283	Figure303
	23780/709	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.13	0.301	1.04	0.312	Figure304
Right/Tilt	23800/711	QPSK 1RB 0 Offset	1:1	24.2	24.02	0.17	0.159	1.04	0.232	Figure305
	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.18	0.236	1.04	0.245	Figure306
	23780/709	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.09	0.223	1.04	0.231	Figure307
Worst Case Position of Head with Battery 2										
Left/Cheek	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.024	0.337	1.04	0.350	Figure308
Test position of Body with 1RB (Distance 10mm)										
Back Side	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.06	0.555	1.04	0.576	Figure309
Front Side	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	-0.01	0.409	1.04	0.424	Figure310
Left Edge	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.01	0.363	1.04	0.377	Figure311
Right Edge	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.03	0.4	1.04	0.415	Figure312
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	0.04	0.062	1.04	0.064	Figure313
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	23790/710	QPSK 1RB 0 Offset	1:1	24.2	24.04	-0.01	0.676	1.04	0.701	Figure314

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

2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

3. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required..

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Table 33: SAR Values (LTE Band 17/20MHz/50%RB)

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 with 50%RB										
Left/Cheek	23800/711	QPSK 50%RB 25 Offset	1:1	23.2	23.16	0.054	0.316	1.01	0.319	Figure315
	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.08	0.1	0.314	1.03	0.323	Figure316
	23780/709	QPSK 50%RB 25 Offset	1:1	23.2	23.06	0.01	0.312	1.03	0.322	Figure317
Left/Tilt	23800/711	QPSK 50%RB 25 Offset	1:1	23.2	23.16	0.12	0.198	1.01	0.200	Figure318
	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.08	0.11	0.191	1.03	0.196	Figure319
	23780/709	QPSK 50%RB 25 Offset	1:1	23.2	23.06	0.02	0.188	1.03	0.194	Figure320
Right/Cheek	23800/711	QPSK 50%RB 25 Offset	1:1	23.2	23.16	0.044	0.268	1.01	0.270	Figure321
	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.08	0.025	0.265	1.03	0.272	Figure322
	23780/709	QPSK 50%RB 25 Offset	1:1	23.2	23.06	0.038	0.262	1.03	0.271	Figure323
Right/Tilt	23800/711	QPSK 50%RB 25 Offset	1:1	23.2	23.16	-0.04	0.156	1.01	0.157	Figure324
	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.08	0.1	0.154	1.03	0.158	Figure325
	23780/709	QPSK 50%RB 25 Offset	1:1	23.2	23.06	0.16	0.152	1.03	0.157	Figure326
Worst Case Position of Head with Battery 2										
Left/Cheek	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.15	0.022	0.321	1.01	0.325	Figure327
Test position of Body with 50%RB (Distance 10mm)										
Back Side	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.15	0.04	0.563	1.01	0.570	Figure328
Front Side	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.15	0.01	0.329	1.01	0.333	Figure329
Left Edge	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.15	-0.01	0.278	1.01	0.281	Figure330
Right Edge	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.15	-0.07	0.316	1.01	0.320	Figure331
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.15	0.13	0.049	1.01	0.050	Figure332
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	23790/710	QPSK 50%RB 12 Offset	1:1	23.2	23.15	-0.01	0.539	1.01	0.545	Figure333
Note: 1.The value with blue color is the maximum SAR Value of each test band.										
2. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.										
3. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required..										

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8.3.11. WIFI (802.11b)

Table 34: SAR Values(802.11b/g/n)

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	19	18.34	0.034	0.159	1.16	0.185	Figure334
	6/2437	DSSS	1:1	19	18.32	-0.032	0.326	1.17	0.381	Figure335
	1/2412	DSSS	1:1	19	18.26	-0.026	0.158	1.19	0.187	Figure336
Left/Tilt	11/2462	DSSS	1:1	19	18.34	0.057	0.101	1.16	0.118	Figure337
	6/2437	DSSS	1:1	19	18.32	0.150	0.234	1.17	0.274	Figure338
	1/2412	DSSS	1:1	19	18.26	0.097	0.087	1.19	0.104	Figure339
Right/Cheek	11/2462	DSSS	1:1	19	18.34	0.022	0.073	1.16	0.085	Figure340
	6/2437	DSSS	1:1	19	18.32	0.048	0.185	1.17	0.216	Figure341
	1/2412	DSSS	1:1	19	18.26	0.064	0.069	1.19	0.082	Figure342
Right/Tilt	11/2462	DSSS	1:1	19	18.34	0.067	0.046	1.16	0.054	Figure343
	6/2437	DSSS	1:1	19	18.32	0.180	0.127	1.17	0.149	Figure344
	1/2412	DSSS	1:1	19	18.26	0.068	0.058	1.19	0.069	Figure345
Worst Case Position of Head with Battery 2										
Left/Cheek	6/2437	DSSS	1:1	19	18.26	-0.021	0.398	1.19	0.472	Figure346
Test position of Body (Distance 10mm)										
Back Side	11/2462	DSSS	1:1	19	18.34	-0.068	0.186	1.16	0.217	Figure347
Front Side	11/2462	DSSS	1:1	19	18.34	-0.05	0.052	1.16	0.060	Figure348
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	11/2462	DSSS	1:1	19	18.34	-0.13	0.161	1.16	0.187	Figure349
Top Edge	11/2462	DSSS	1:1	19	18.34	0.09	0.026	1.16	0.030	Figure350
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Worst Case Position of Body with Battery 2 (Distance 10mm)										
Back Side	11/2462	DSSS	1:1	19	18.34	-0.068	0.174	1.16	0.203	Figure351

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. WLAN antenna is located at top edge, near to right edge; antenna-to- Bottom/Left edge distance is more than 2.5 cm (see ANNEX M). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

4. KDB 248227-SAR is not required for 802.11g/n channels when the maximum average output power is less than $\frac{1}{4}$ dB higher than measured on the corresponding 802.11b channels.

5. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

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8.4. Simultaneous Transmission Conditions

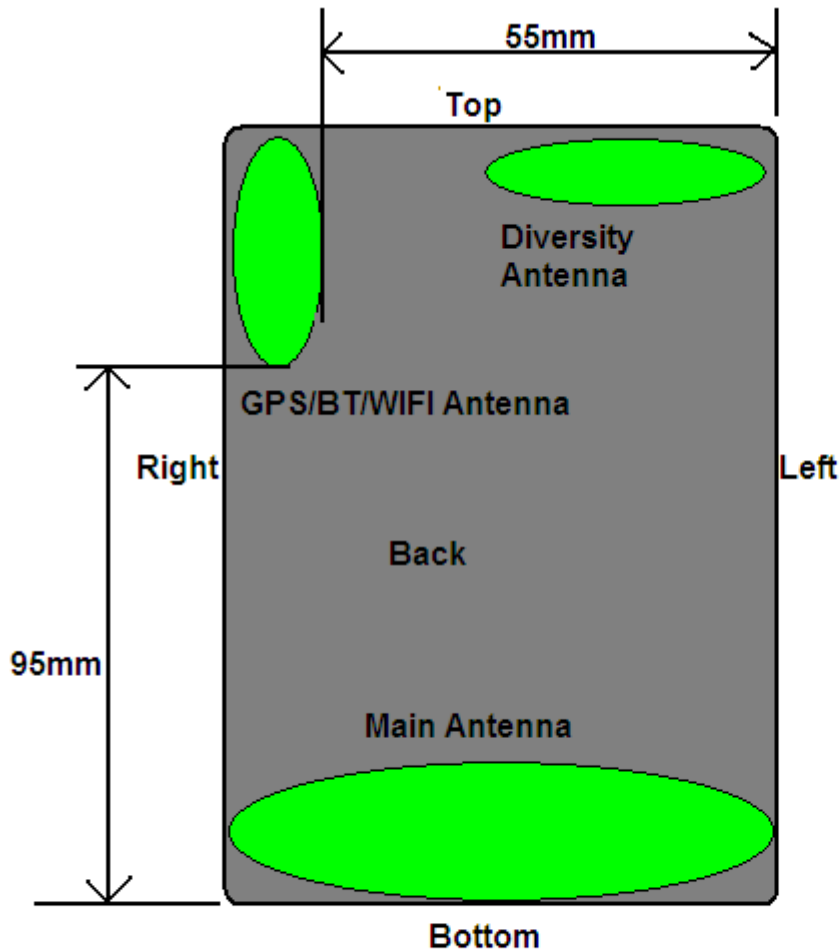
Band	Type	Simultaneous Transmissions	Voice Over Digital Transport (Data)
GSM 850/1900	VO	Yes BT or WIFI	NA
UMTS II/V	VO		
LTE 2/4/7/17	VO		
GSM 850/1900	DT	Yes BT or WIFI	NA
UMTS II/V	DT		
LTE 2/4/7/17	DT		
WIFI 2.4G	DT	Yes GSM/WCDMA/LTE, GPRS, EGPRS, HSDPA, HSUPA, HSPA+	Yes
Bluetooth (BT)	DT	Yes GSM/WCDMA/LTE, GPRS, EGPRS, HSDPA, HSUPA, HSPA+	NA
Note: VO Voice Service only DT Digital Transport			

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The location of the antennas inside EUT is shown in ANNEX M:



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.

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

$$\text{So, Head Estimated SAR}_{\text{Max.BT}} = [10^{(5.5/10)}/5] * (2.480^{1/2}/7.5) = 0.15 \text{ W/kg}$$

$$\text{Body Estimated SAR}_{\text{Max.BT}} = [10^{(5.5/10)}/10] * (2.480^{1/2}/7.5) = 0.07 \text{ W/kg}$$

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 $\leq 1.6 \text{ W/kg}$. When the sum is greater than the SAR limit, SAR test exclusion is determined by the SAR to peak location separation ratio.

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

About BT and GSM/UMTS/LTE antenna

SAR _{1g} (W/kg) Test Position	GSM 850	GSM 850 DTM	GSM 1900	GSM 1900 DTM	UMTS Band II	UMTS Band V	LTE 2	LTE 4	LTE 7	LTE 17	BT	MAX. ΣSAR _{1g}
Left, Touch	0.374	0.564	0.334	0.595	0.639	0.513	0.279	0.719	0.143	0.351	0.15	0.869
Left, Tilt	0.313	0.499	0.176	0.280	0.355	0.490	0.132	0.373	0.055	0.228	0.15	0.649
Right, Touch	0.416	0.633	0.518	0.728	0.924	0.562	0.341	1.072	0.283	0.312	0.15	1.222
Right, Tilt	0.337	0.521	0.173	0.277	0.358	0.484	0.131	0.380	0.116	0.245	0.15	0.671
Back Side	1.159	1.225	0.937	0.973	1.177	0.866	0.799	1.289	0.931	0.701	0.07	1.359
Front Side	0.834	0.658	0.881	0.937	0.787	0.689	0.386	1.159	0.330	0.424	0.07	1.229
Left Edge	0.548	0.444	0.224	0.200	0.249	0.457	0.105	0.395	0.072	0.377	0.07	0.618
Right Edge	0.976	0.654	0.216	0.225	0.241	0.653	0.114	0.248	0.172	0.415	0.07	1.046
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.07	N/A
Bottom Edge	0.248	0.213	0.757	0.796	1.077	0.196	1.062	1.145	0.504	0.064	0.07	1.215

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

2. MAX. ΣSAR_{1g} =Unlicensed SAR_{MAX} +Licensed SAR_{MAX}

MAX. ΣSAR_{1g} = 1.359 W/kg <1.6 W/kg, So the Simultaneous SAR are not required for BT and GSM/UMTS/LTE antenna.

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About WIFI and GSM/UMTS/LTE antenna

<div>SAR_{1g}(W/kg)</div> <div>Test Position</div>	GSM 850	GSM 850 DTM	GSM 1900	GSM 1900 DTM	UMTS Band II	UMTS Band V	LTE 2	LTE 4	LTE 7	LTE 17	WIFI	MAX. ΣSAR _{1g}
Left, Touch	0.374	0.564	0.334	0.595	0.639	0.513	0.279	0.719	0.143	0.351	0.472	1.191
Left, Tilt	0.313	0.499	0.176	0.280	0.355	0.490	0.132	0.373	0.055	0.228	0.274	0.773
Right, Touch	0.416	0.633	0.518	0.728	0.924	0.562	0.341	1.072	0.283	0.312	0.216	1.288
Right, Tilt	0.337	0.521	0.173	0.277	0.358	0.484	0.131	0.380	0.116	0.245	0.149	0.670
Back Side	1.159	1.225	0.937	0.973	1.177	0.866	0.799	1.289	0.931	0.701	0.217	1.506
Front Side	0.834	0.658	0.881	0.937	0.787	0.689	0.386	1.159	0.330	0.424	0.060	1.219
Left Edge	0.548	0.444	0.224	0.200	0.249	0.457	0.105	0.395	0.072	0.377	N/A	N/A
Right Edge	0.976	0.654	0.216	0.225	0.241	0.653	0.114	0.248	0.172	0.415	0.187	1.163
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.030	0.03
Bottom Edge	0.248	0.213	0.757	0.796	1.077	0.196	1.062	1.145	0.504	0.064	N/A	N/A

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

2. MAX. ΣSAR_{1g} =Unlicensed SAR_{MAX} +Licensed SAR_{MAX}

MAX. ΣSAR_{1g} = 1.506 W/kg <1.6 W/kg, So the Simultaneous SAR are not required for WIFI and GSM/UMTS/LTE antenna.

WIFI & BT Mode

BT and WIFI antenna cannot transmit simultaneously.

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9. 700MHz to 3GHz Measurement Uncertainty

No.	source	Type	Uncertainty Value (%)	Probability Distribution	k	c _i	Standard ncertainty 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	∞
5	-boundary effect	B	1.9	R	$\sqrt{3}$	1	1.1	∞
6	-probe linearity	B	4.7	R	$\sqrt{3}$	1	2.7	∞
7	- System detection limits	B	1.0	R	$\sqrt{3}$	1	0.6	∞
8	-readout Electronics	B	1.0	N	1	1	1.0	∞
9	-response time	B	0.8	R	$\sqrt{3}$	1	0.5	∞
10	-integration time	B	4.3	R	$\sqrt{3}$	1	2.5	∞
11	-RF Ambient noise	B	3.0	R	$\sqrt{3}$	1	1.7	∞
12	-RF Ambient Conditions	B	3.0	R	$\sqrt{3}$	1	1.7	∞
13	-Probe Positioner Mechanical Tolerance	B	0.4	R	$\sqrt{3}$	1	0.2	∞
14	-Probe Positioning with respect to Phantom Shell	B	2.9	R	$\sqrt{3}$	1	1.7	∞
15	-Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	B	3.9	R	$\sqrt{3}$	1	2.3	∞
Test sample Related								
16	-Test Sample Positioning	A	2.9	N	1	1	2.9	71
17	-Device Holder Uncertainty	A	4.1	N	1	1	4.1	5
18	- Power drift	B	5.0	R	$\sqrt{3}$	1	2.9	∞
Physical parameter								
19	-phantom Uncertainty	B	4.0	R	$\sqrt{3}$	1	2.3	∞

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20	Algorithm for correcting SAR for deviations in permittivity and conductivity	B	1.9	N	1	0.84	0.9	∞
21	-Liquid conductivity (measurement uncertainty)	B	2.5	N	1	0.71	1.8	9
22	-Liquid permittivity (measurement uncertainty)	B	2.5	N	1	0.26	0.7	9
23	-Liquid conductivity -temperature uncertainty	B	1.7	R	$\sqrt{3}$	0.71	0.7	∞
24	-Liquid permittivity -temperature uncertainty	B	0.3	R	$\sqrt{3}$	0.26	0.05	∞
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{24} c_i^2 u_i^2}$					11.34	
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$		N	k=2		22.68	

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10. Main Test Instruments

Table 35: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	Agilent 8753E	US37390326	September 10, 2013	One year
02	Dielectric Probe Kit	Agilent 85070E	US44020115	No Calibration Requested	
03	Power meter	Agilent E4417A	GB41291714	March 10, 2013	One year
04	Power sensor	Agilent N8481H	MY50350004	September 23, 2013	One year
05	Power sensor	E9327A	US40441622	January 1, 2014	One year
06	Signal Generator	HP 8341B	2730A00804	September 9, 2013	One year
07	Dual directional coupler	778D-012	50519	March 25, 2013	One year
08	Dual directional coupler	777D	50146	March 25, 2013	One year
09	Amplifier	IXA-020	0401	No Calibration Requested	
10	Wideband radio communication tester	CMW 500	113645	August 30, 2012	One year
11	E-field Probe	EX3DV4	3677	November 28, 2013	One year
12	E-field Probe	EX3DV4	3816	June 4, 2013	One year
13	DAE	DAE4	1317	January 16, 2014	One year
14	Validation Kit 750MHz	D750V3	1045	September 29, 2011	Three years
15	Validation Kit 835MHz	D835V2	4d020	August 26, 2011	Three years
16	Validation Kit 1750MHz	D1750V2	1033	January 26, 2014	Three years
17	Validation Kit 1900MHz	D1900V2	5d060	August 31, 2011	Three years
18	Validation Kit 2450MHz	D2450V2	786	August 29, 2011	Three years
19	Validation Kit 2600MHz	D2600V2	1012	May 02, 2012	Three years
20	Temperature Probe	JM222	AA1009129	March 14, 2013	One year
21	Hygrothermograph	WS-1	64591	September 26, 2013	One year

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

ANNEX A: Test Layout



Picture 1: Specific Absorption Rate Test Layout

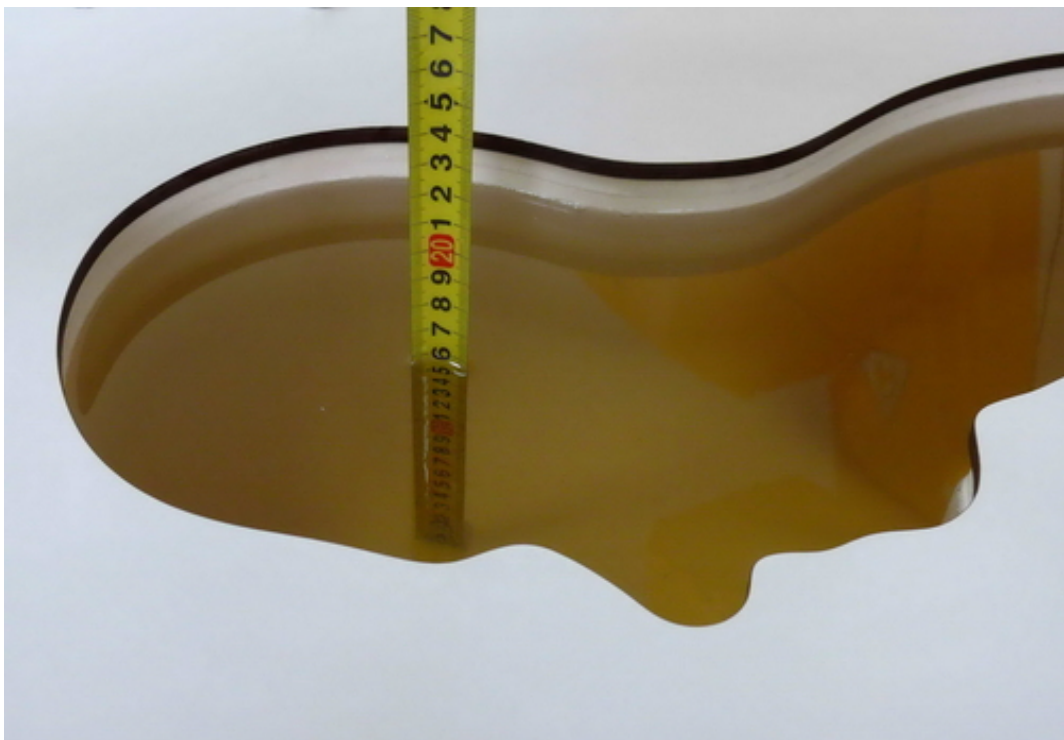
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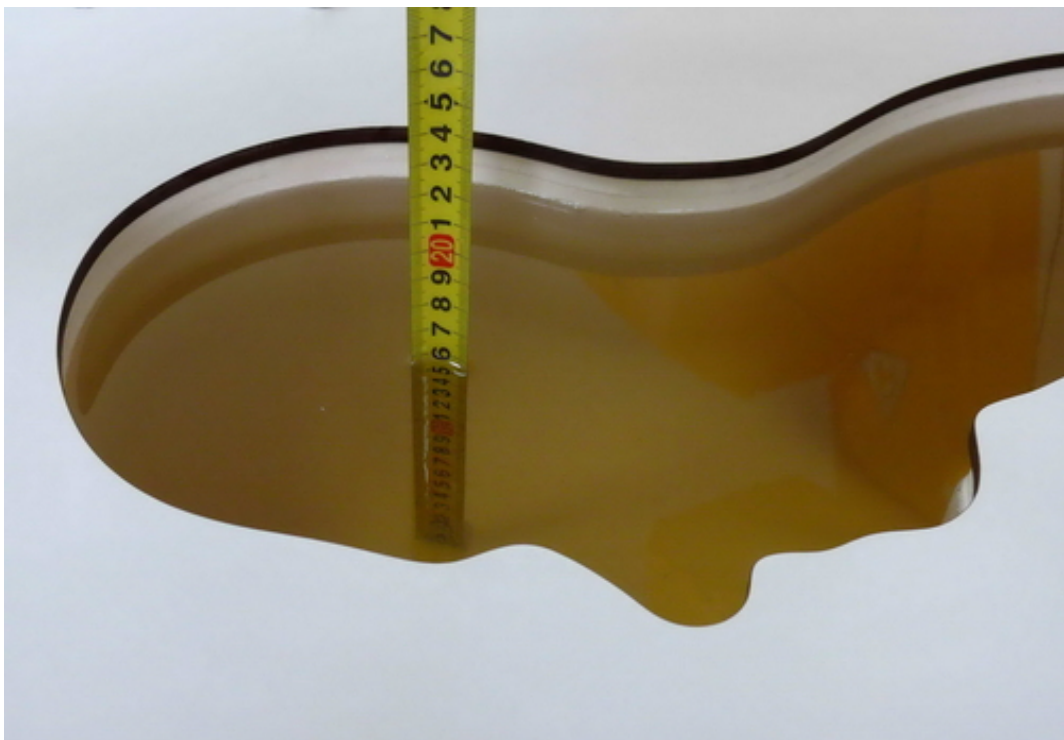
Picture 2: Liquid depth in the flat Phantom (750MHz, 15.4cm depth)



Picture 3: Liquid depth in the head Phantom (750MHz, 15.3cm depth)



Picture 4: Liquid depth in the flat Phantom (835MHz, 15.4cm depth)

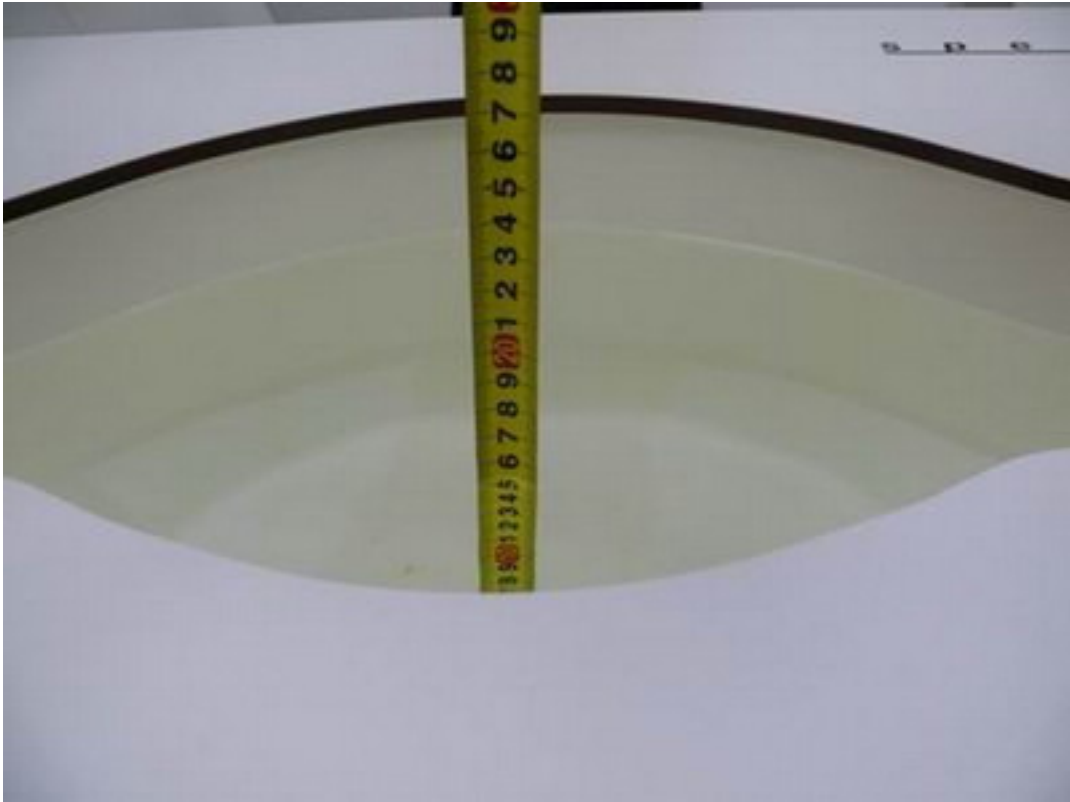


Picture 5: Liquid depth in the head Phantom (835MHz, 15.3cm depth)

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Picture 6: Liquid depth in the flat Phantom (1750 MHz, 15.2cm depth)

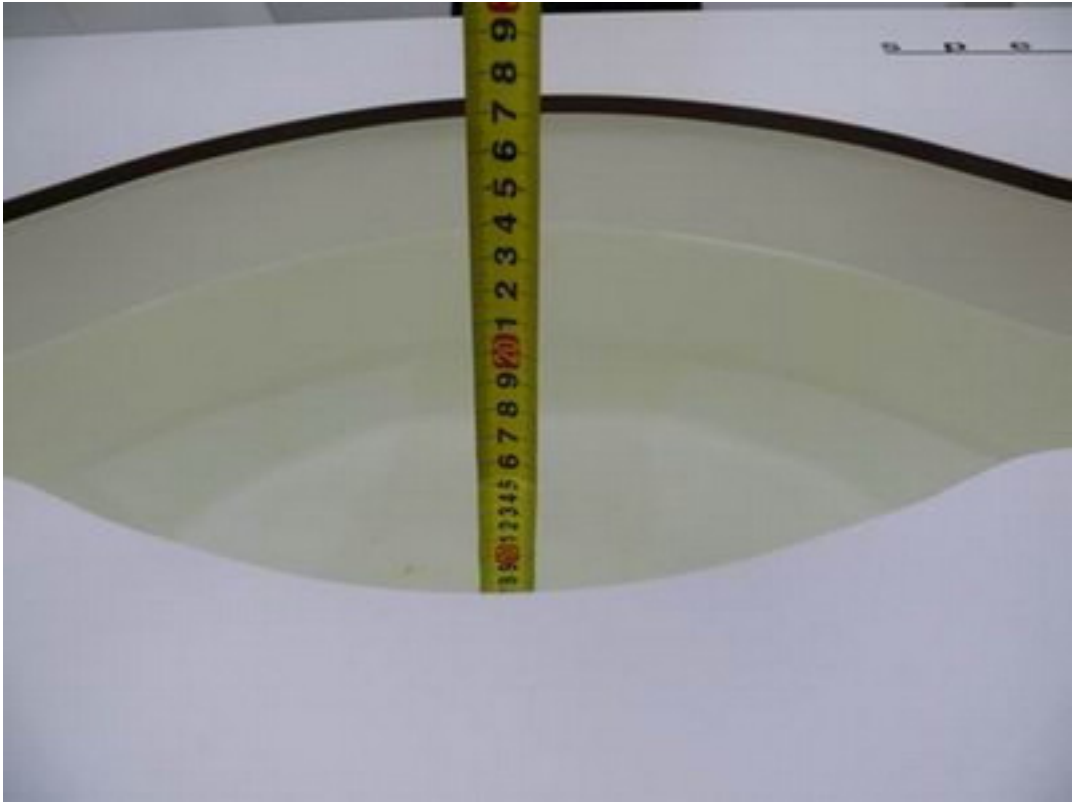


Picture 7: liquid depth in the head Phantom (1750 MHz, 15.3cm depth)

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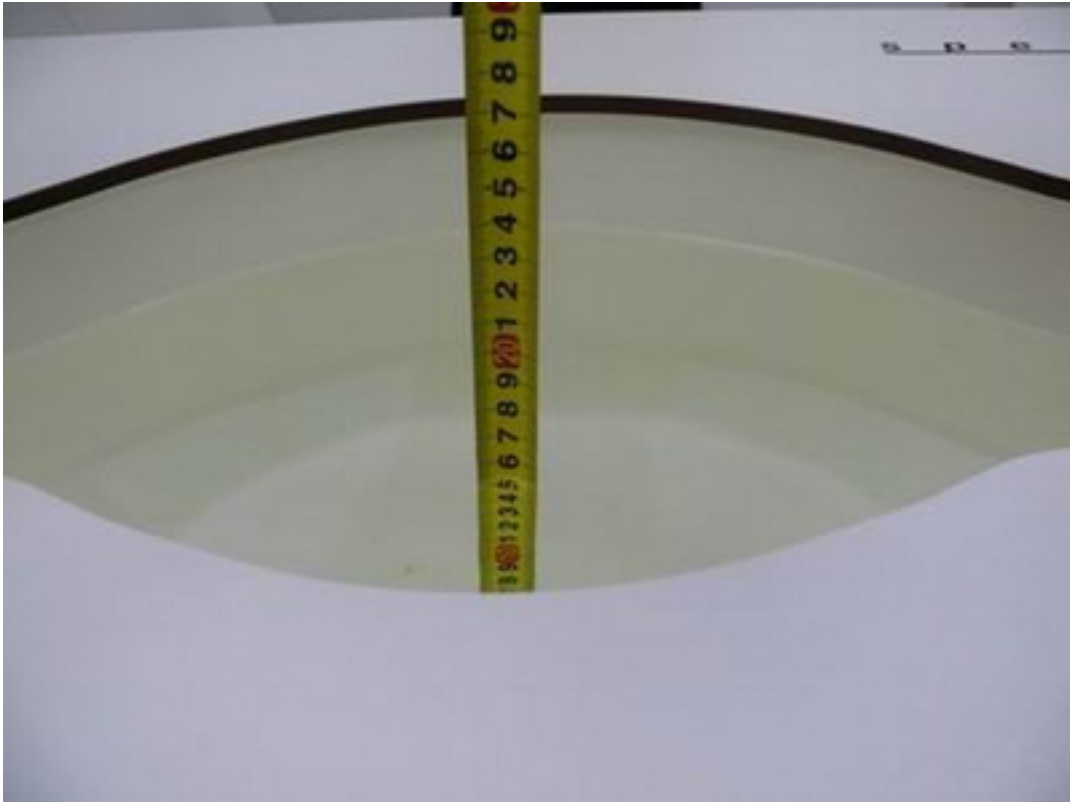
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Picture 8: Liquid depth in the flat Phantom (1900 MHz, 15.2cm depth)



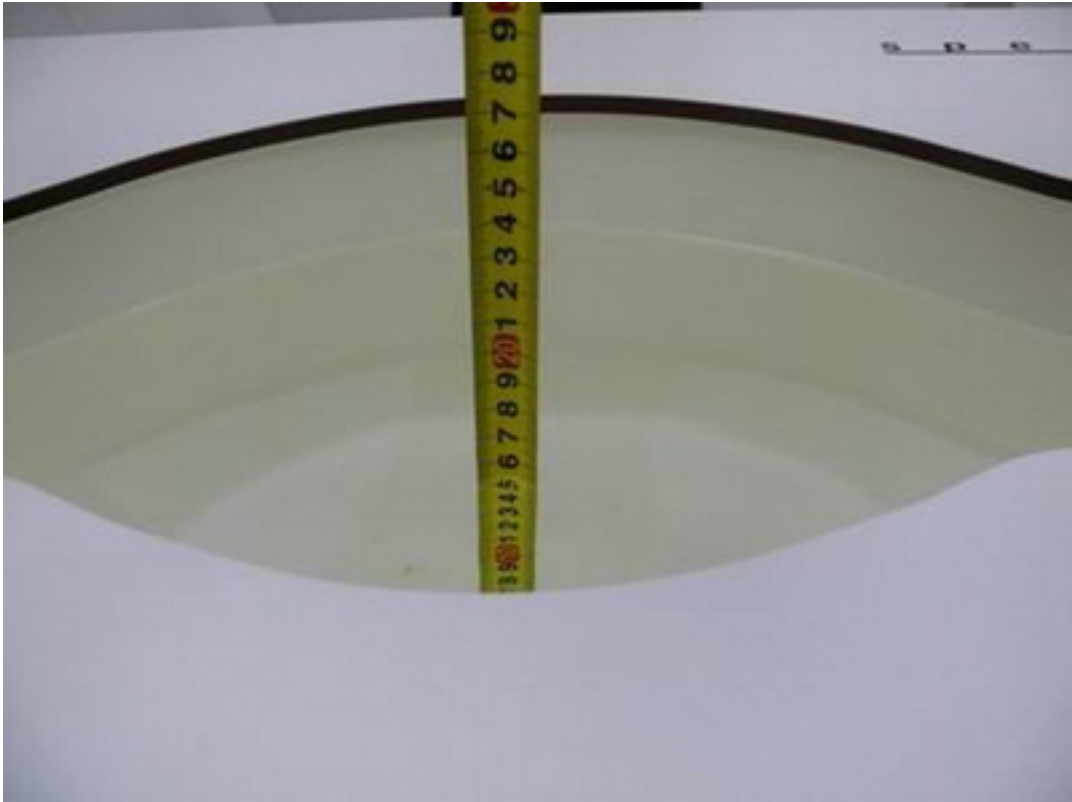
Picture 9: liquid depth in the head Phantom (1900 MHz, 15.3cm depth)



Picture 10: Liquid depth in the flat Phantom (2450 MHz, 15.3cm depth)



Picture 11: Liquid depth in the head Phantom (2450 MHz, 15.4cm depth)



Picture 12: Liquid depth in the flat Phantom (2600 MHz, 15.3cm depth)



Picture 13: Liquid depth in the head Phantom (2600 MHz, 15.4cm depth)

ANNEX B: System Check Results

System Performance Check at 750 MHz Head TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1045

Date/Time: 2/27/2014 3:11:24 AM

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.90 \text{ S/m}$; $\epsilon_r = 42.0$; $\rho = 1000 \text{ kg/m}^3$

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

Phantom section: Flat Section

DASY4 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.94, 9.94, 9.94); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 2.29 W/kg

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

Reference Value = 50.653 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.41 W/kg

Maximum value of SAR (measured) = 2.29 W/kg

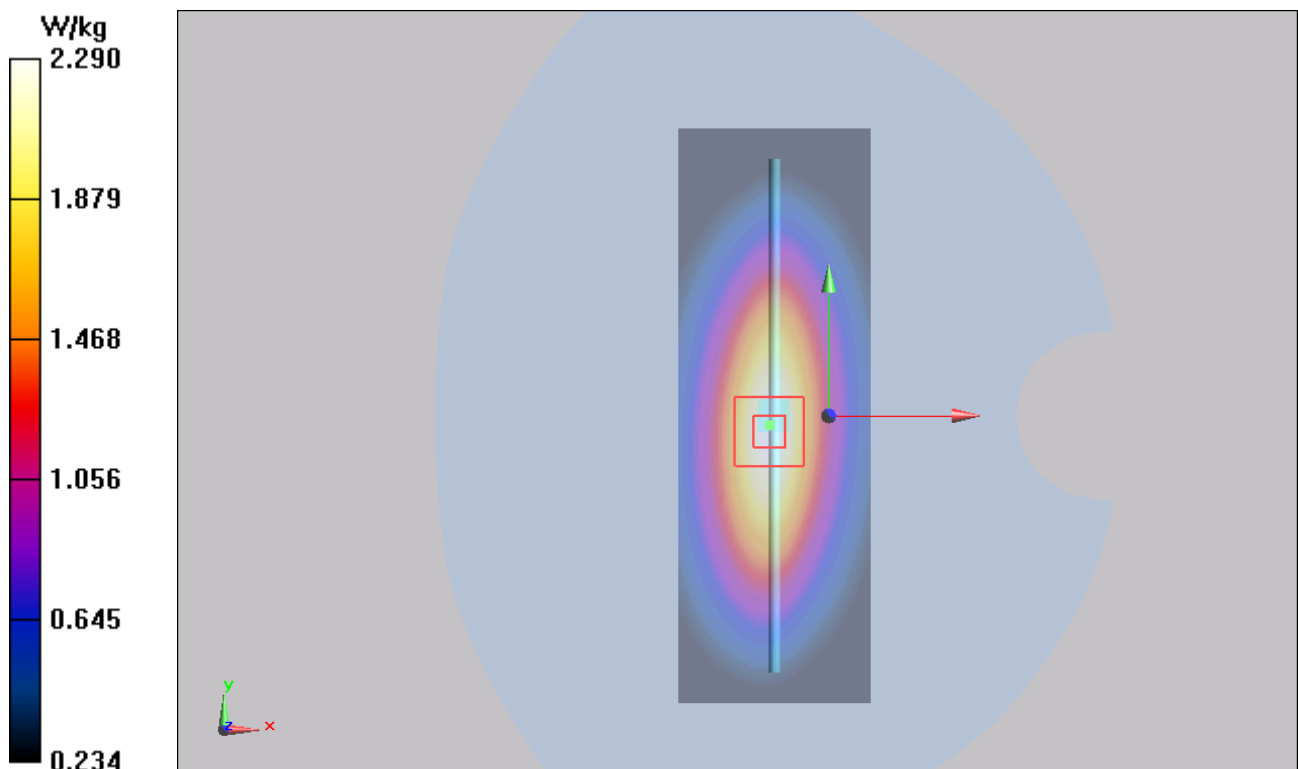


Figure 7 System Performance Check 750MHz 250mW

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System Performance Check at 750 MHz Body TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1045

Date/Time: 3/2/2014 12:10:34 AM

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY4 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.72, 9.72, 9.72); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 2.36 W/kg

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

Reference Value = 48.998 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 2.22 W/kg; SAR(10 g) = 1.49 W/kg

Maximum value of SAR (measured) = 2.39 W/kg

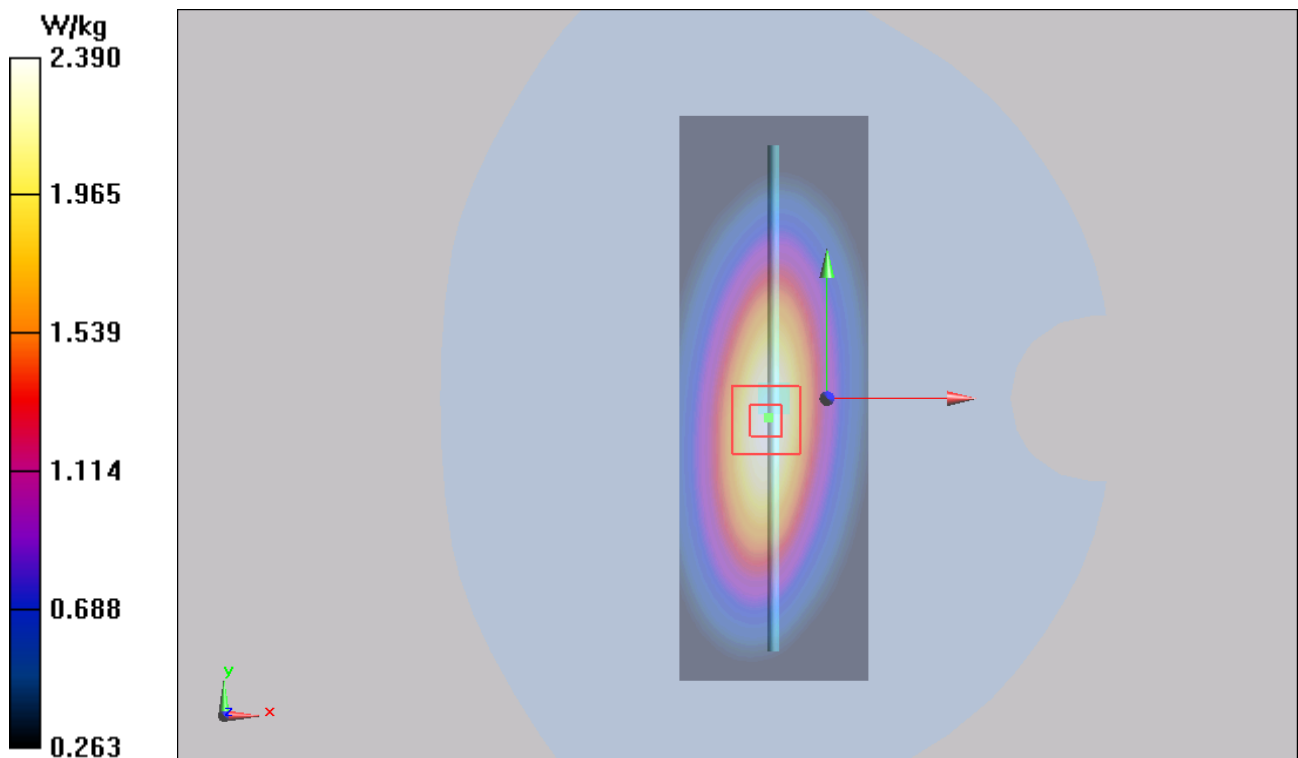


Figure 8 System Performance Check 750MHz 250mW

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System Performance Check at 835 MHz Head TSL

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

Date/Time: 2/22/2014 10:05:38 AM

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

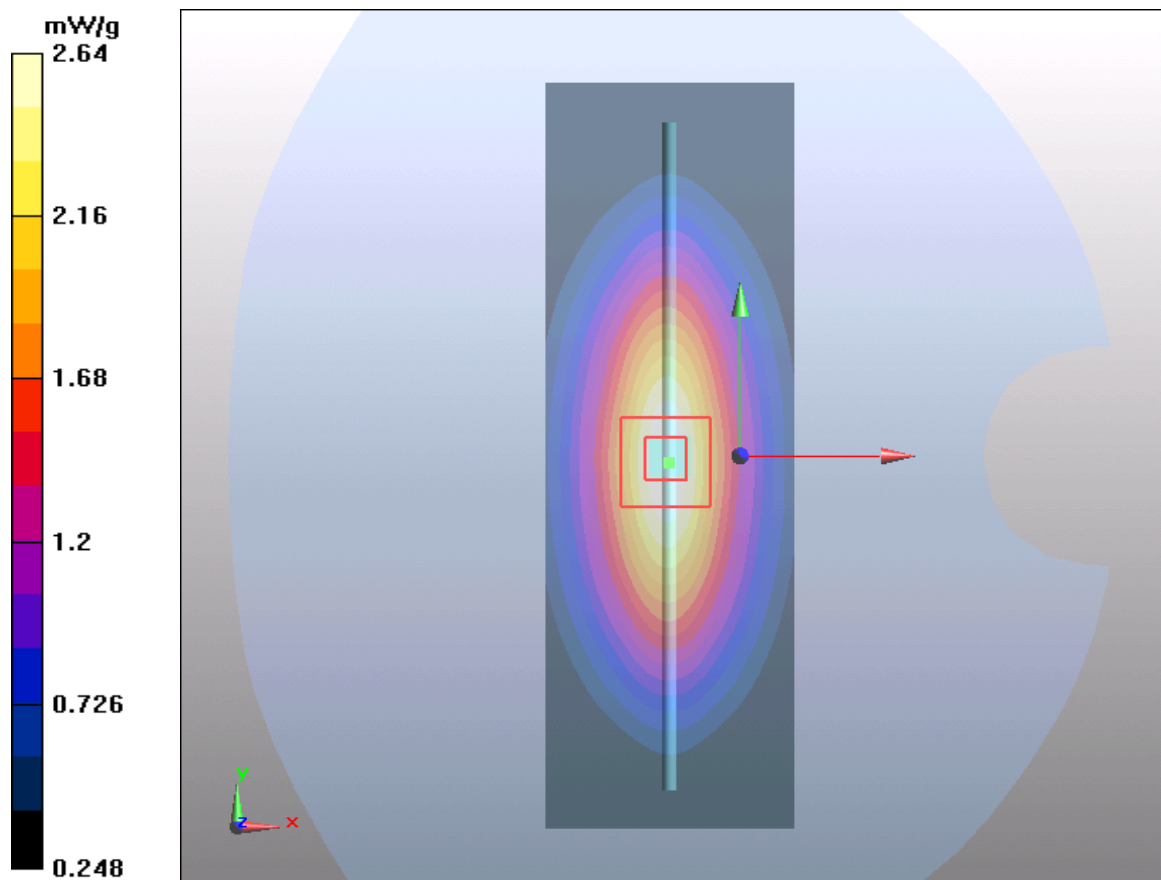


Figure 9 System Performance Check 835MHz 250mW

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System Performance Check at 835 MHz Body TSL

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

Date/Time: 2/23/2014 8:20:37 AM

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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 = 51.9 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

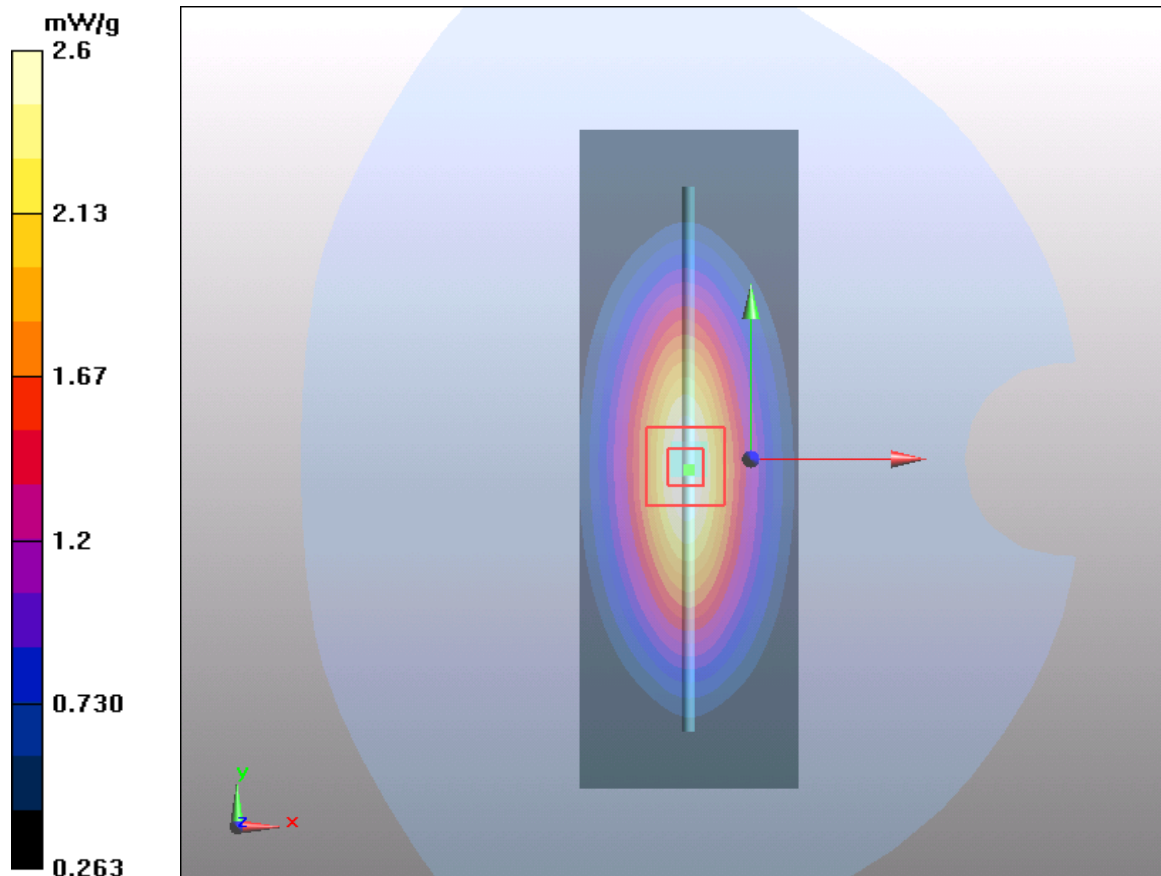


Figure 10 System Performance Check 835MHz 250Mw

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System Performance Check at 1750 MHz Head TSL

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

Date/Time: 3/3/2014 7:03:44 PM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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) = 9.78 mW/g

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

Reference Value = 80 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 8.75 mW/g; SAR(10 g) = 4.5 mW/g

Maximum value of SAR (measured) = 9.46 mW/g

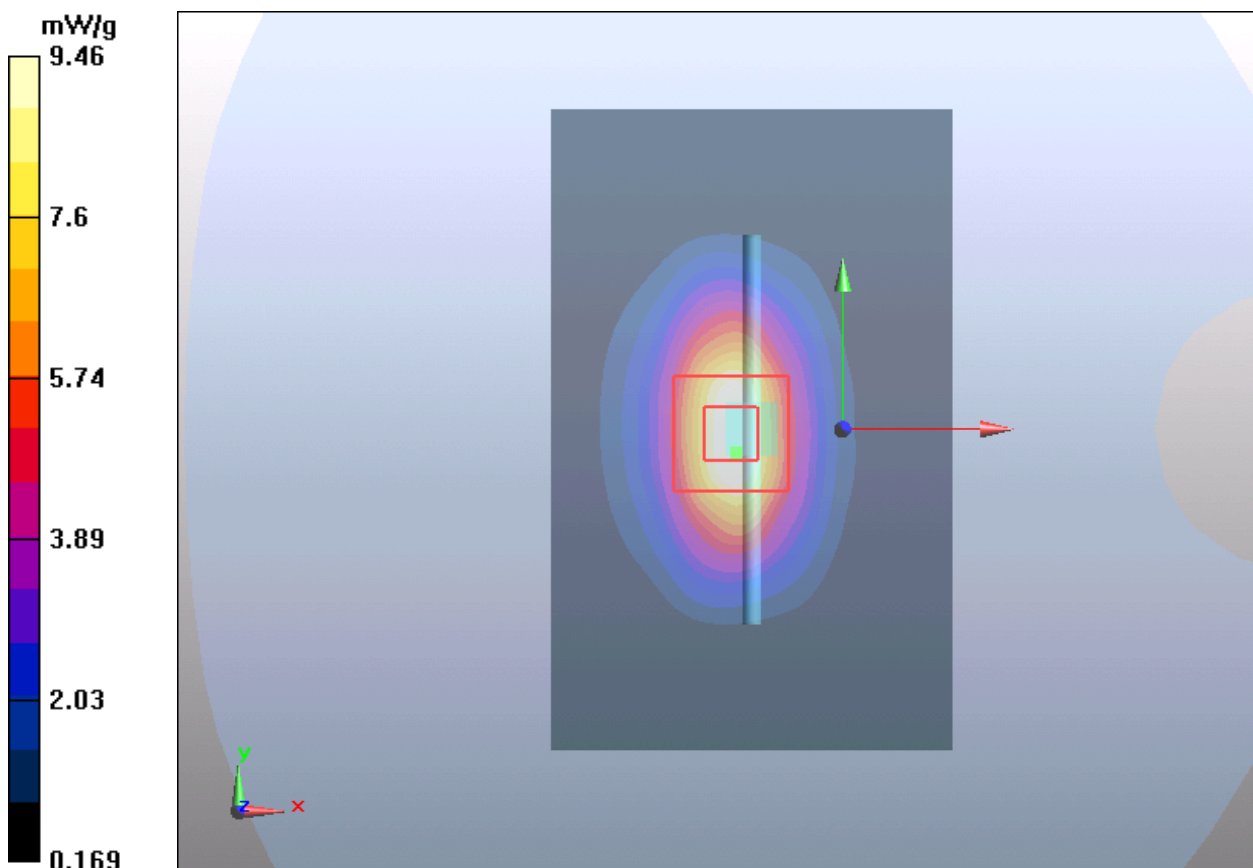


Figure 11 System Performance Check 1750MHz 250mW

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System Performance Check at 1750 MHz Body TSL

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

Date/Time: 3/1/2014 2:20:55 PM

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.7 °C

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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) = 10.6 mW/g

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

Reference Value = 77.7 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 9.24 mW/g; SAR(10 g) = 4.9 mW/g

Maximum value of SAR (measured) = 10.3 mW/g

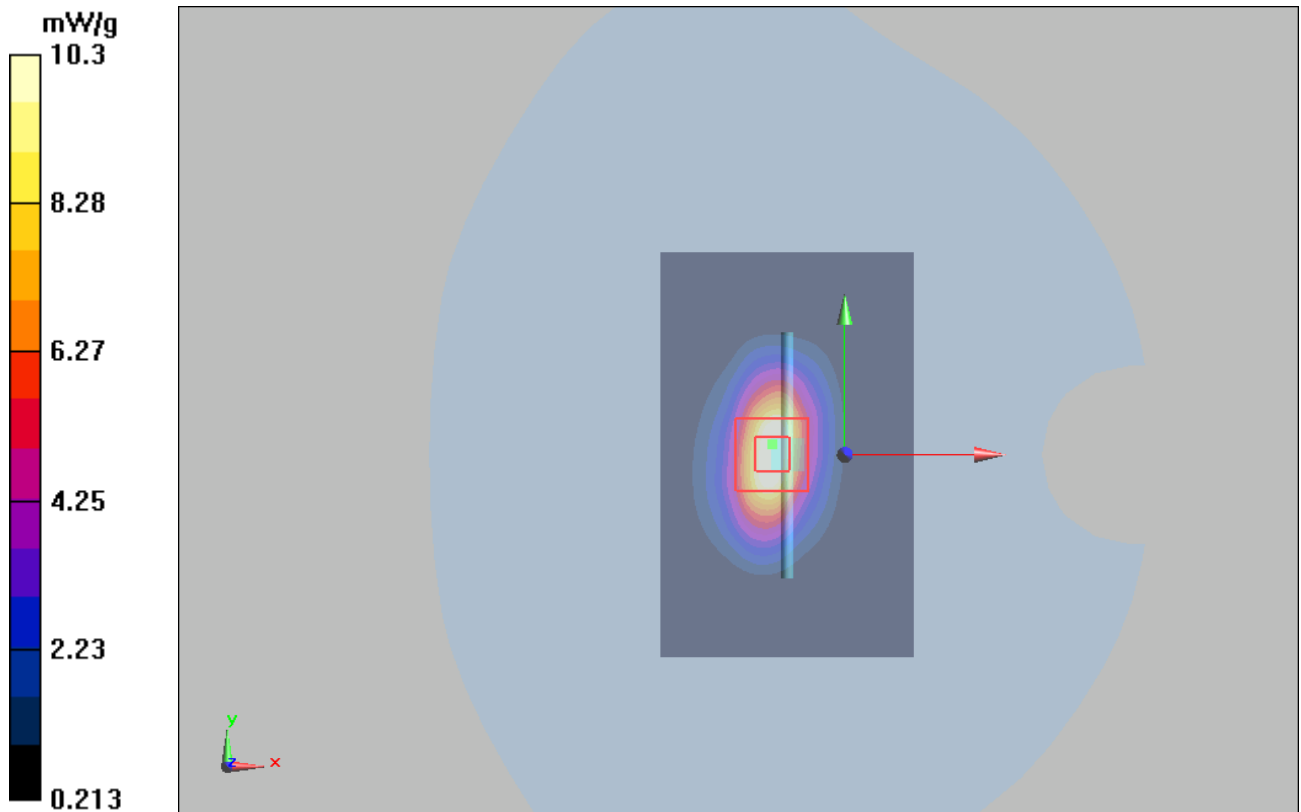


Figure 12 System Performance Check 1750MHz 250mW

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System Performance Check at 1900 MHz Head TSL

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

Date/Time: 2/21/2014 1:27:44 PM

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

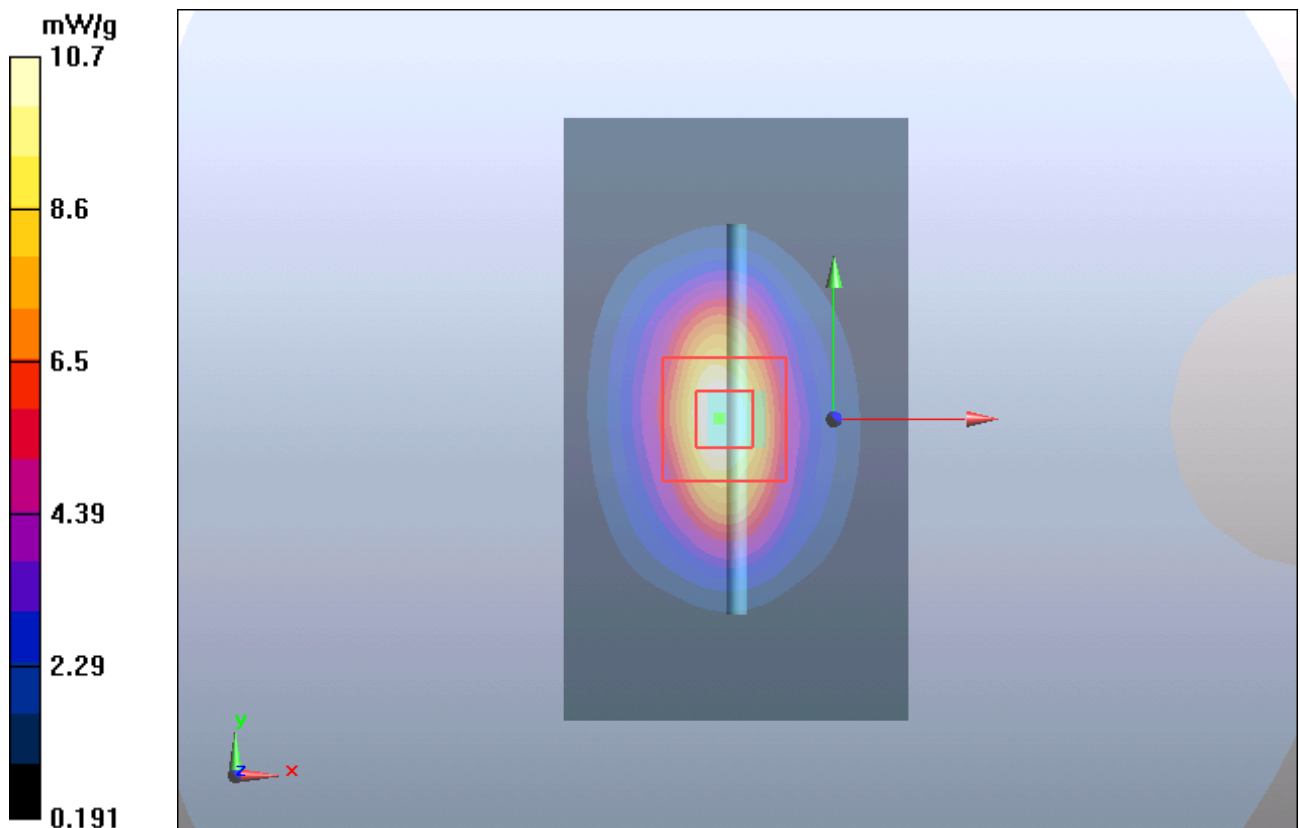


Figure 13 System Performance Check 1900MHz 250mW

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System Performance Check at 1900 MHz Head TSL

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

Date/Time: 2/20/2014 9:18:04 AM

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.0$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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) = 12.9 mW/g

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

Reference Value = 87.8 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 10.55 mW/g; SAR(10 g) = 5.40 mW/g

Maximum value of SAR (measured) = 11.92 mW/g

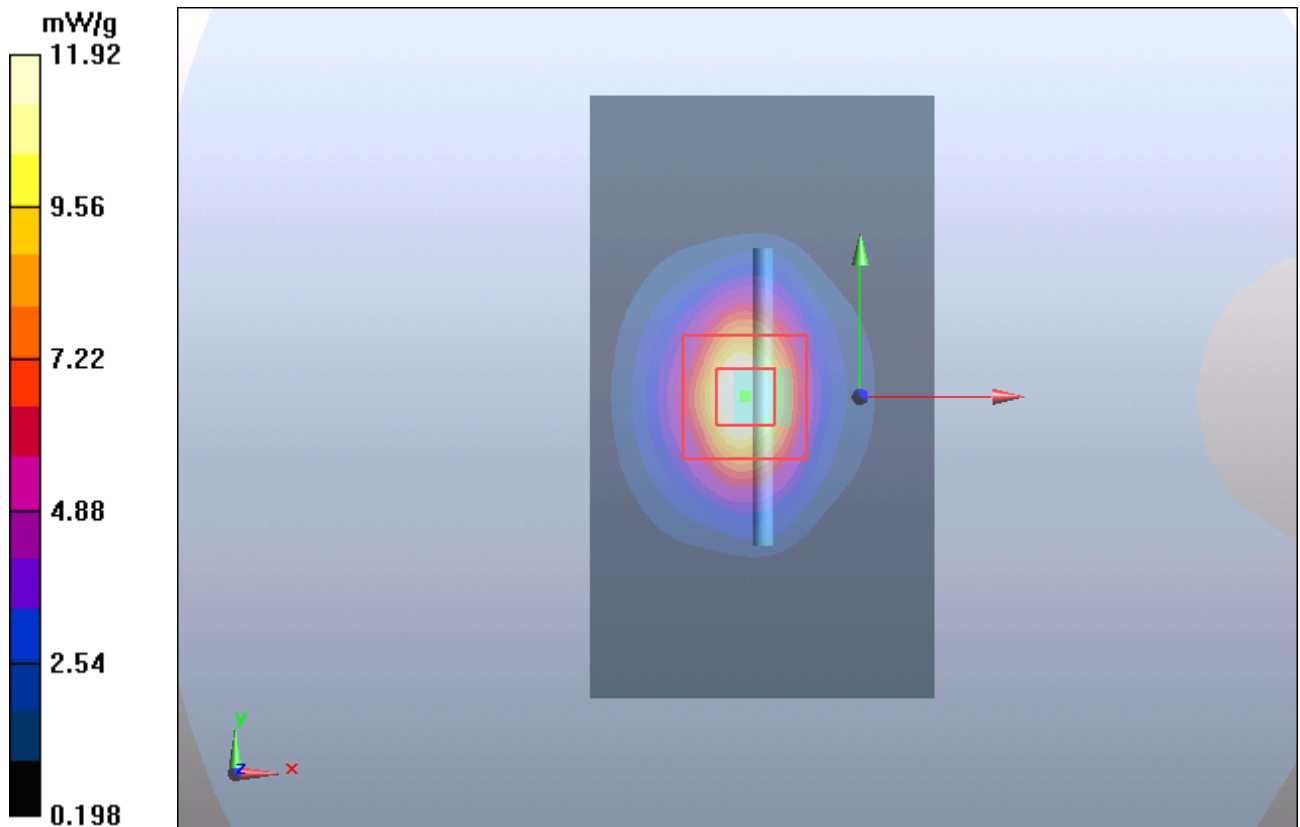


Figure 14 System Performance Check 1900MHz 250mW

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System Performance Check at 1900 MHz Body TSL

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

Date/Time: 2/28/2014 11: 30:55 PM

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.52$ 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:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

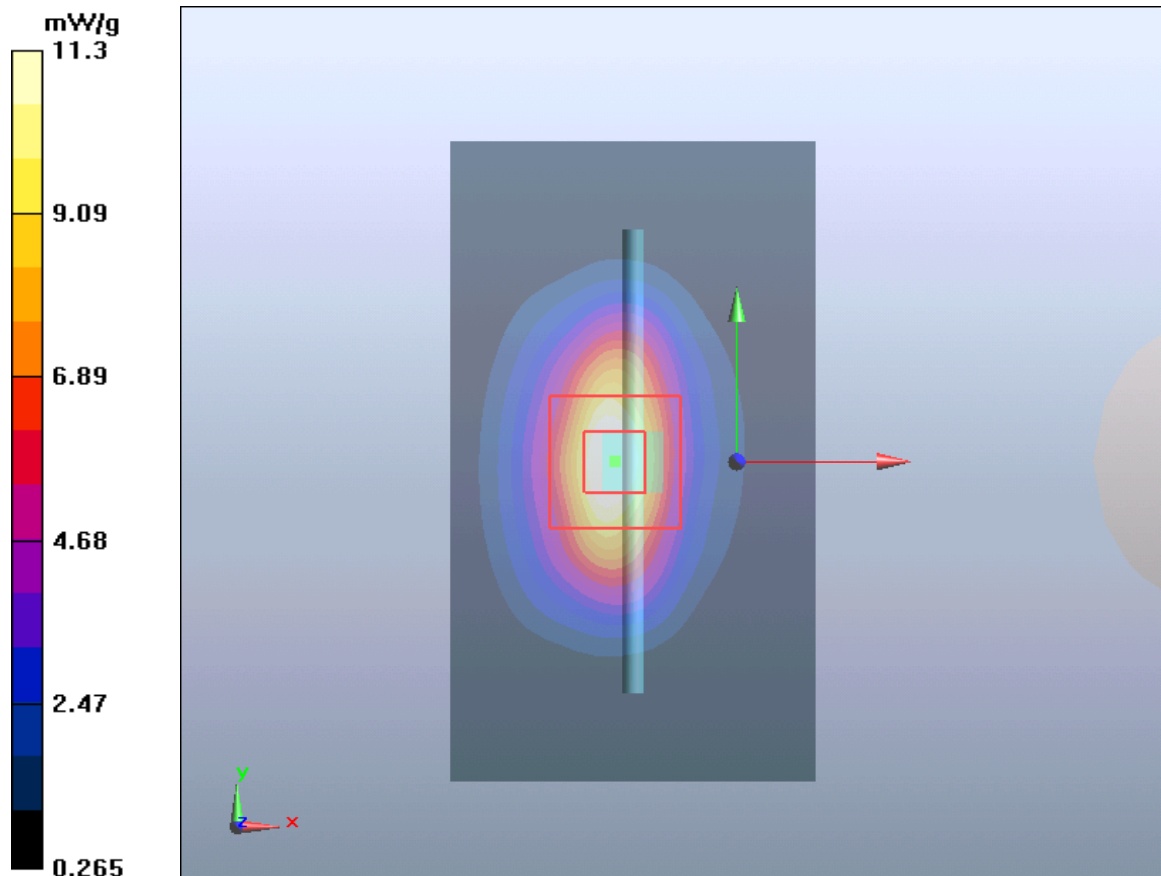


Figure 15 System Performance Check 1900MHz 250mW

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System Performance Check at 1900 MHz Body TSL

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

Date/Time: 3/3/2014 1:10:01 PM

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.58$ 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: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Sensor-Surface: 4mm (Mechanical Surface Detection)

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) = 11.8 mW/g

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

Reference Value = 83.1 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.48 mW/g

Maximum value of SAR (measured) = 11.8 mW/g

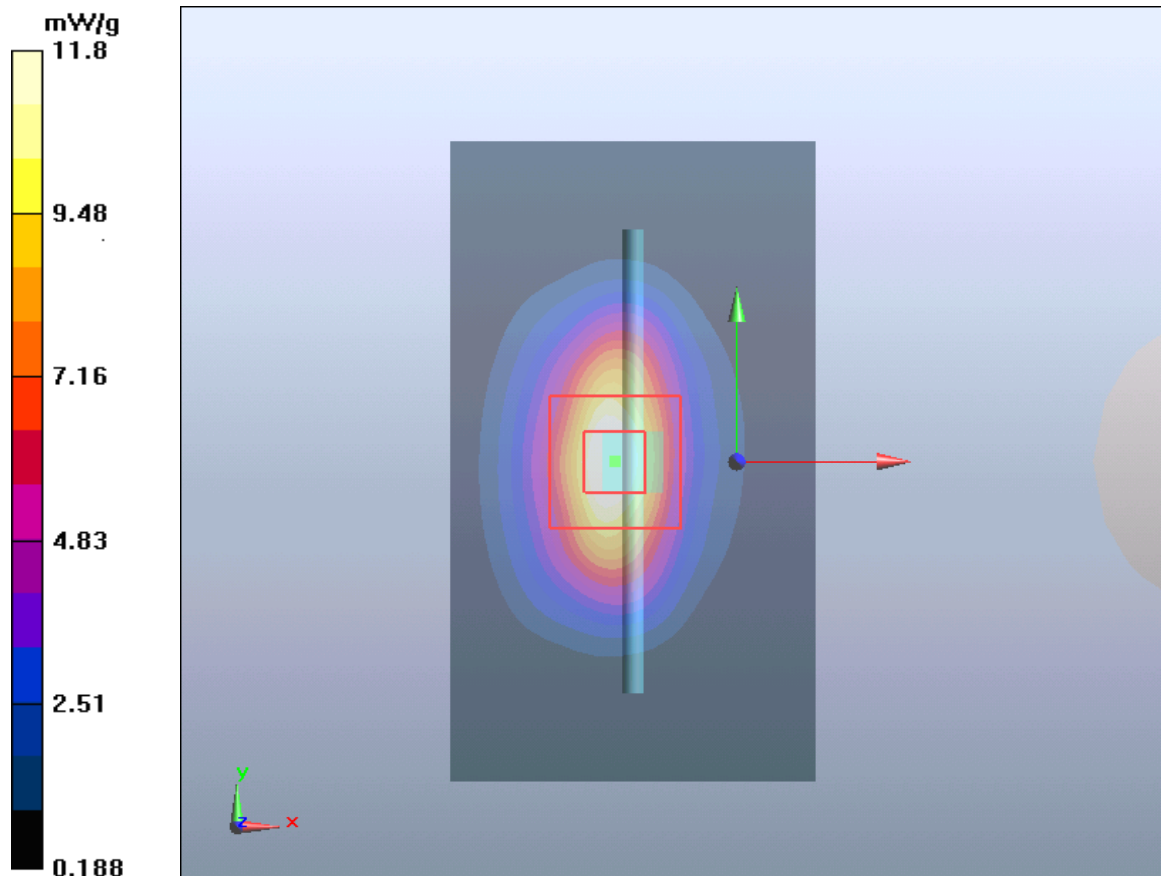


Figure 16 System Performance Check 1900MHz 250mW

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System Performance Check at 2450 MHz Head TSL

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

Date/Time: 2/26/2014 11:00:12 AM

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.80$ mho/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.64, 7.64, 7.64); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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=10mm, dy=10mm

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

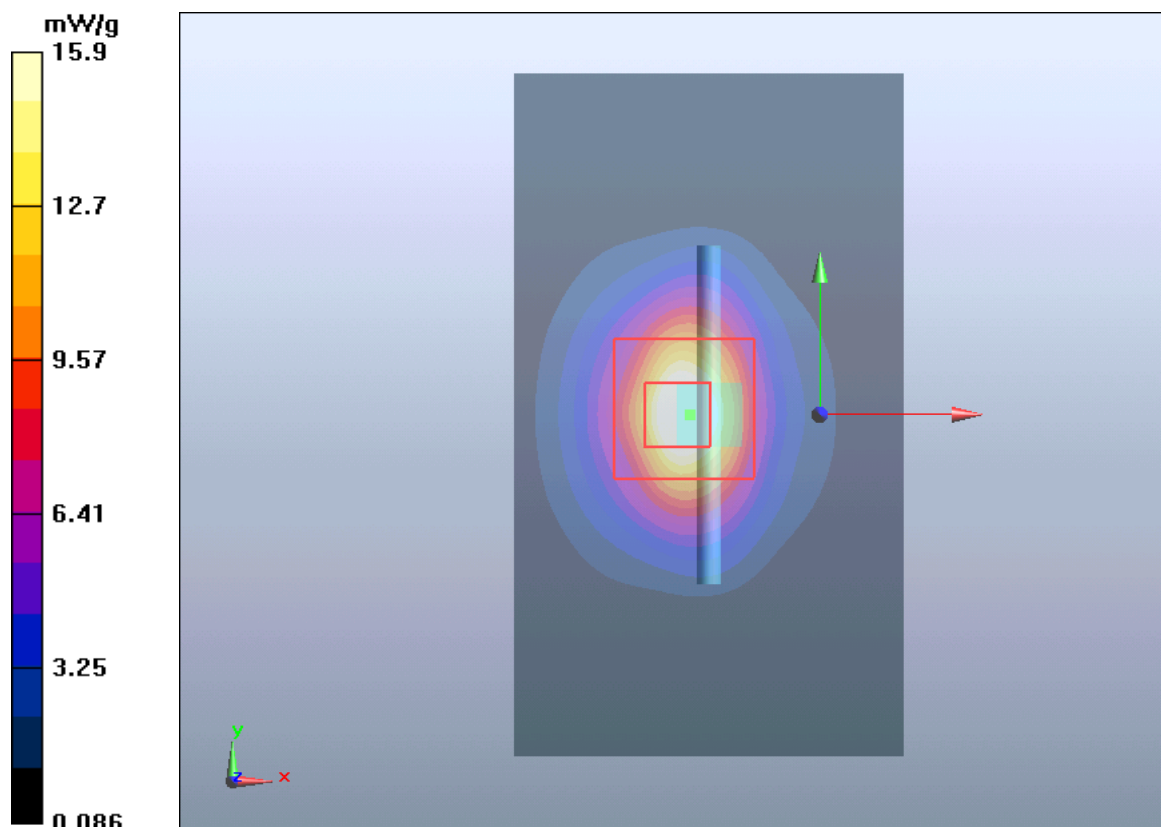


Figure 17 System Performance Check 2450MHz 250mW

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System Performance Check at 2450 MHz Body TSL

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

Date/Time: 2/25/2014 11:30:59 AM

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ 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:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.61, 7.61, 7.61); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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=10mm, dy=10mm

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 = 0.003 dB

Peak SAR (extrapolated) = 25.4 W/kg

SAR(1 g) = 12.5 mW/g; SAR(10 g) = 6.20 mW/g

Maximum value of SAR (measured) = 14.4 mW/g

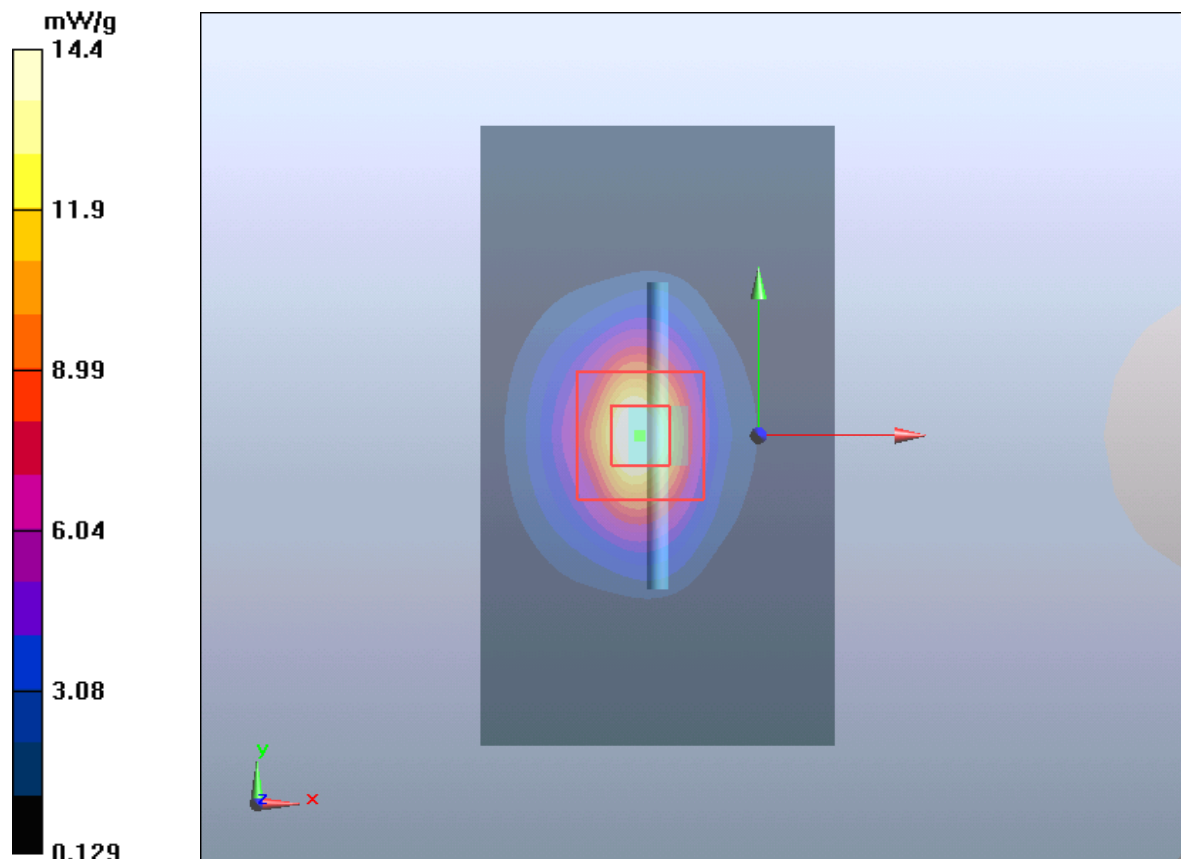


Figure 18 System Performance Check 2450MHz 250mW

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System Performance Check at 2600 MHz Head TSL

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1012

Date/Time: 3/4/2014 1:32:51 AM

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3816; ConvF(7.26, 7.26, 7.26); Calibrated: 6/4/2013

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

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

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

Maximum value of SAR (interpolated) = 17.439 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 87.998 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 31.858 W/kg

SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.07 mW/g

Maximum value of SAR (measured) = 15.617 mW/g

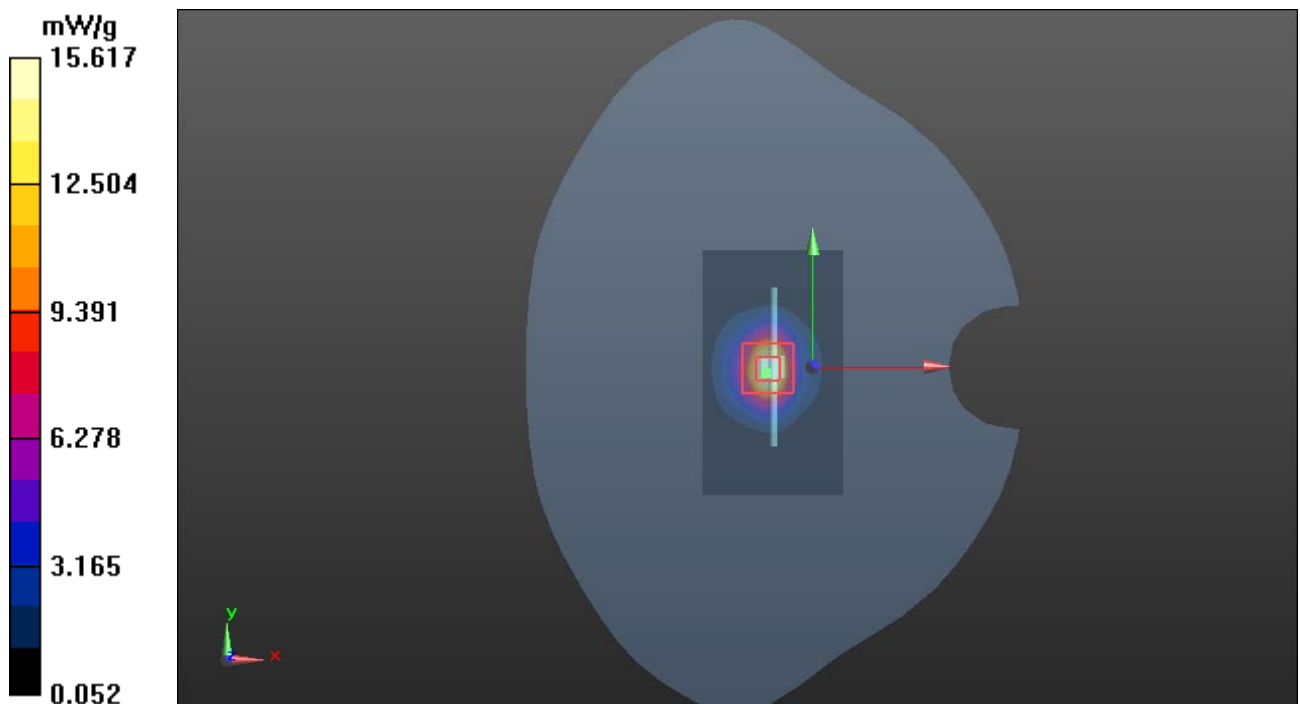


Figure 19 System Performance Check 2600MHz 250mW

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System Performance Check at 2600 MHz Body TSL

DUT: Dipole 1900 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1012

Date/Time: 3/2/2014 5:30:51 AM

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.2$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3816; ConvF(7.82, 7.82, 7.82); Calibrated: 6/4/2013

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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=12mm, dy=12mm

Maximum value of SAR (interpolated) = 17.7 mW/g

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

Reference Value = 74 V/m; Power Drift = -0.0027 dB

Peak SAR (extrapolated) = 28.5 W/kg

SAR(1 g) = 13.5 mW/g; SAR(10 g) = 5.99 mW/g

Maximum value of SAR (measured) = 15.7 mW/g

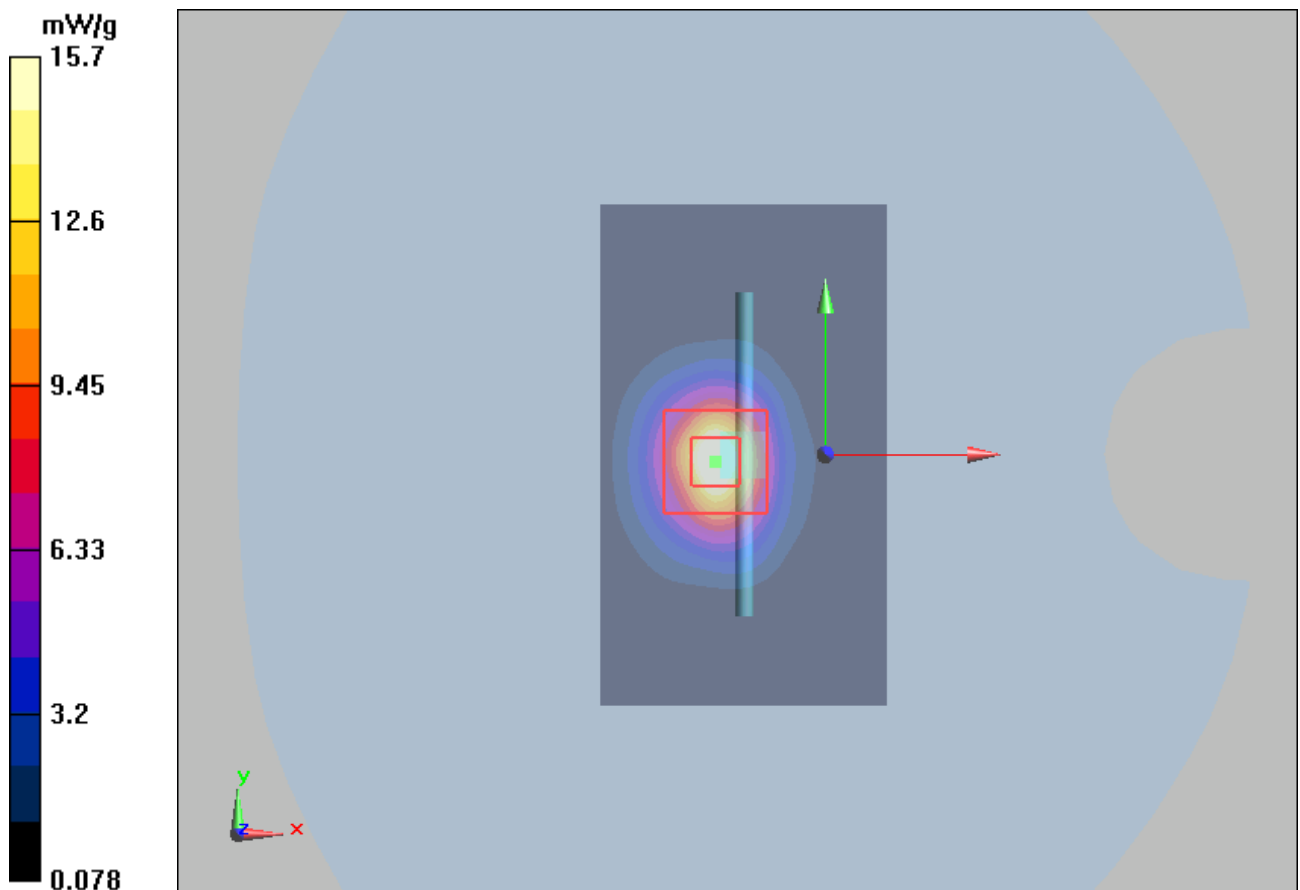


Figure 20 System Performance Check 1900MHz 250mW

ANNEX C: Graph Results

GSM 850 Left Cheek High

Date/Time: 2/22/2014 7:13:34 PM

Communication System: GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 849$ MHz; $\sigma = 0.943$ mho/m; $\epsilon_r = 41.271$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.283 W/kg

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

Reference Value = 4.878 V/m; Power Drift = -0.049 dB

Peak SAR (extrapolated) = 0.327 mW/g

SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.277 W/kg

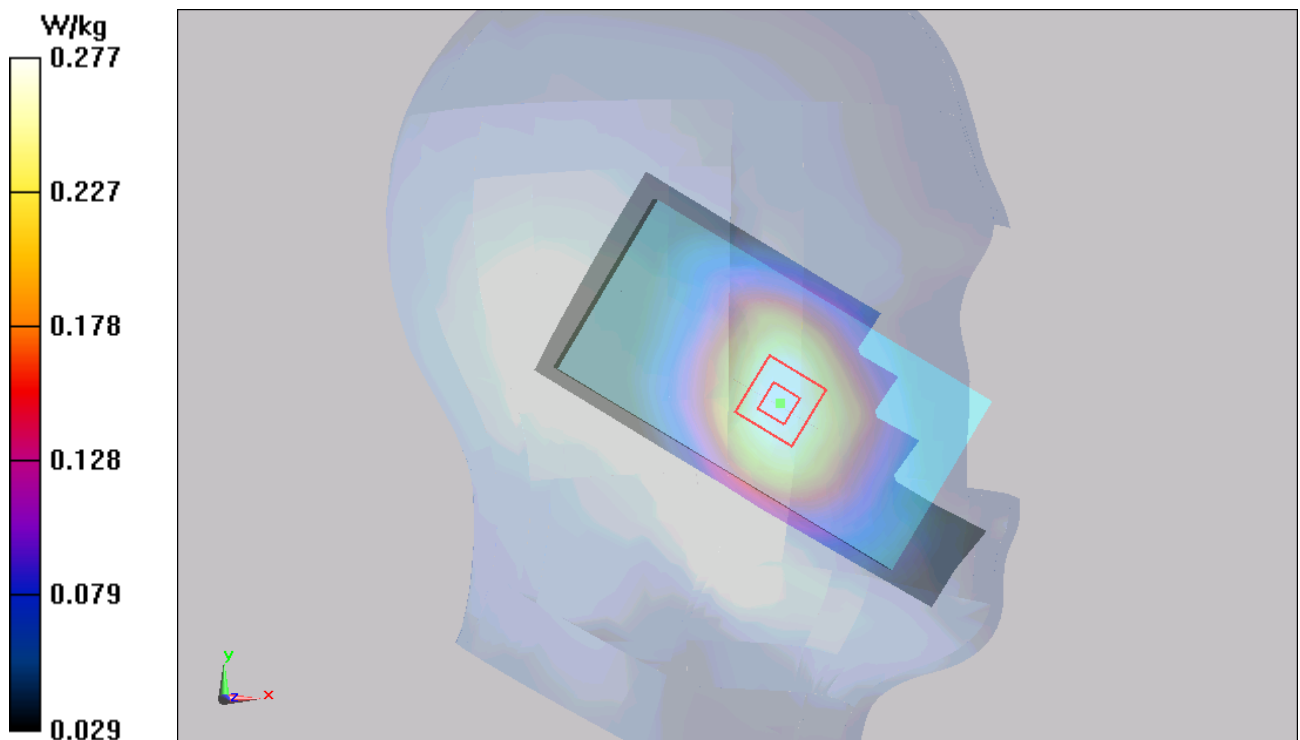


Figure 21 Left Hand Touch Cheek GSM 850 Channel 251

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GSM 850 Left Cheek Middle

Date/Time: 2/22/2014 10:24:24 PM

Communication System: GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.341 W/kg

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

Reference Value = 5.257 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.400 mW/g

SAR(1 g) = 0.321 mW/g; SAR(10 g) = 0.242 mW/g

Maximum value of SAR (measured) = 0.339 W/kg

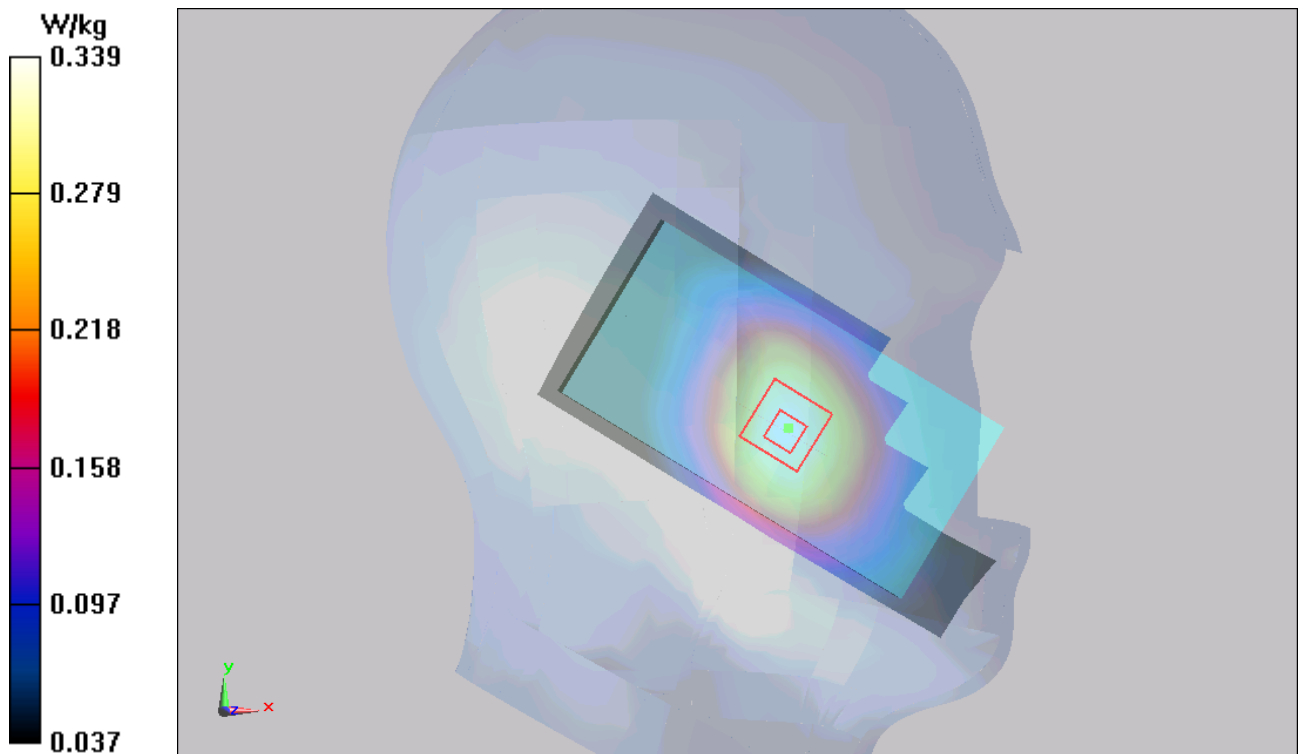


Figure 22 Left Hand Touch Cheek GSM 850 Channel 190

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GSM 850 Left Cheek Low

Date/Time: 2/22/2014 7:29:11 PM

Communication System: GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.459$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.360 W/kg

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

Reference Value = 5.378 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.423 mW/g

SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.355 W/kg

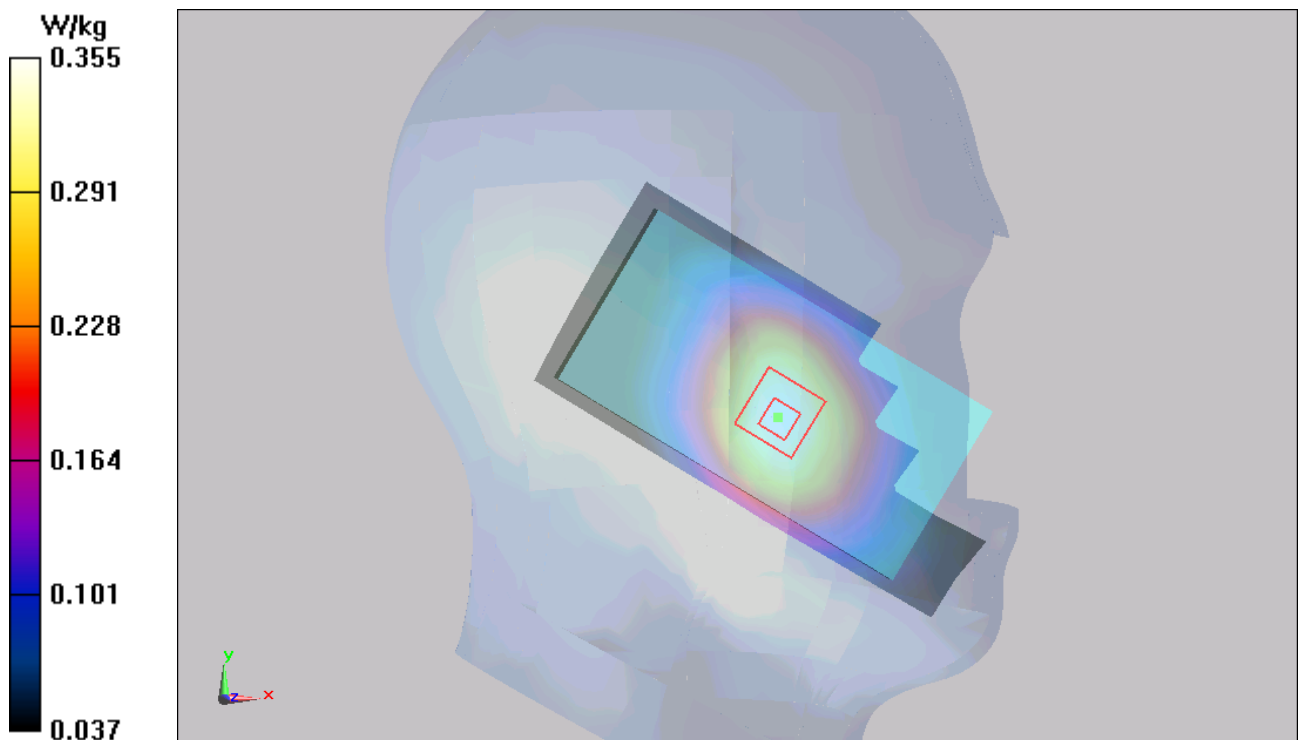


Figure 23 Left Hand Touch Cheek GSM 850 Channel 128

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GSM 850 Left Tilt High

Date/Time: 2/22/2014 10:57:06 PM

Communication System: GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 849$ MHz; $\sigma = 0.943$ mho/m; $\epsilon_r = 41.271$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.275 W/kg

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

Reference Value = 9.229 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.325 mW/g

SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.275 W/kg

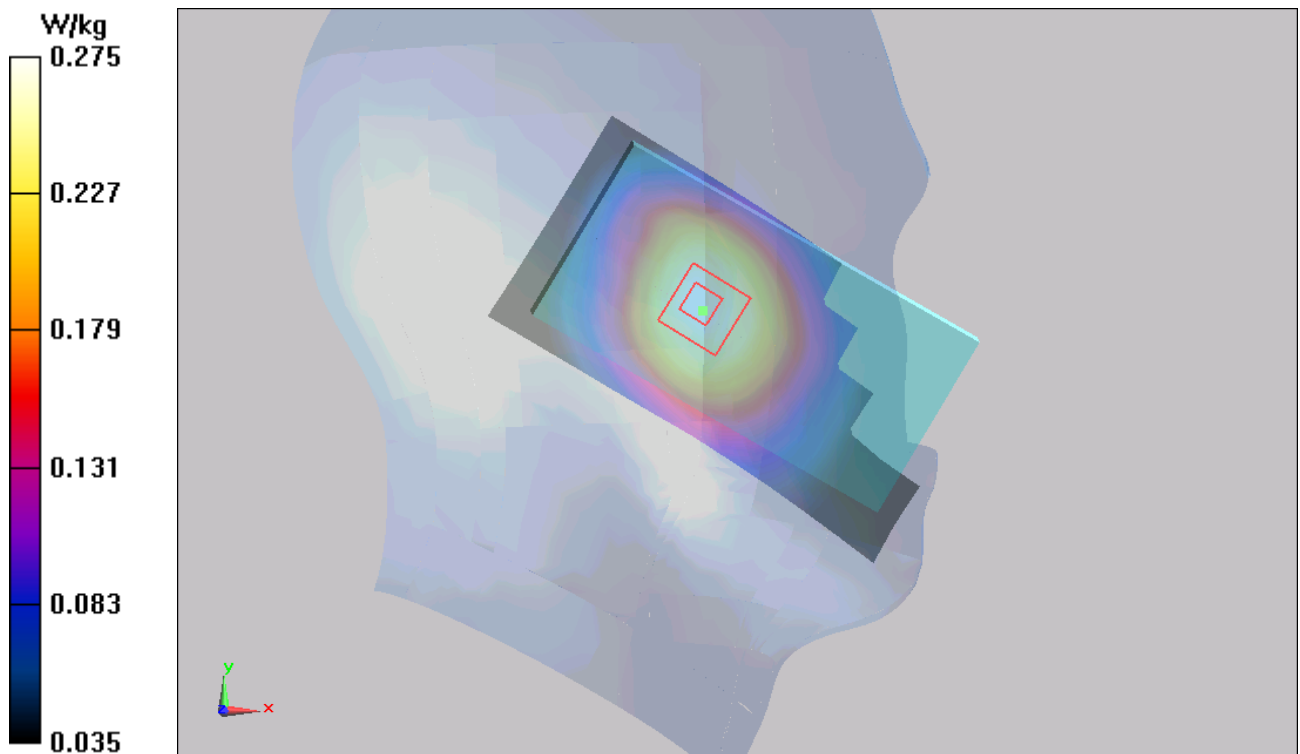


Figure 24 Left Hand Tilt 15° GSM 850 Channel 251

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GSM 850 Left Tilt Middle

Date/Time: 2/22/2014 10:41:01 PM

Communication System: GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.284 W/kg

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

Reference Value = 9.535 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.334 mW/g

SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.283 W/kg

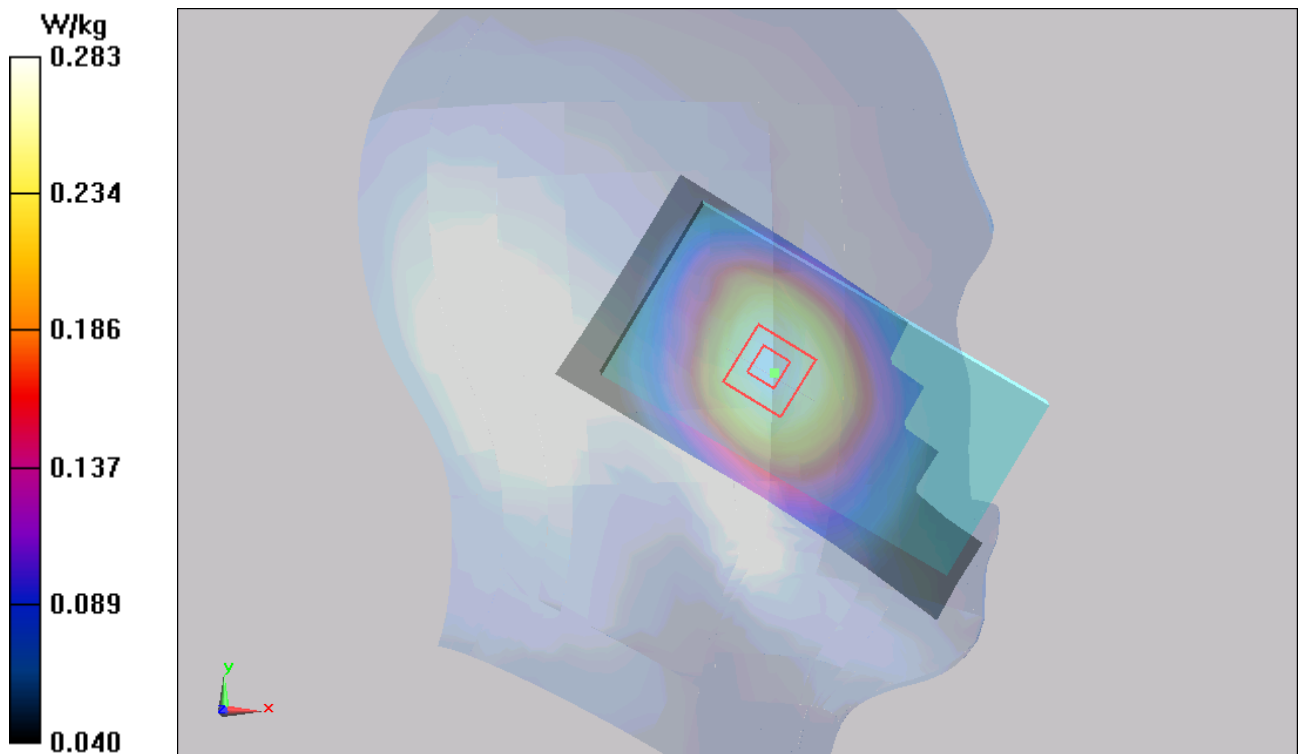


Figure 25 Left Hand Tilt 15° GSM 850 Channel 190

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GSM 850 Left Tilt Low

Date/Time: 2/22/2014 11:26:23 PM

Communication System: GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.459$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.297 W/kg

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

Reference Value = 9.744 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.342 mW/g

SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.217 mW/g

Maximum value of SAR (measured) = 0.294 W/kg

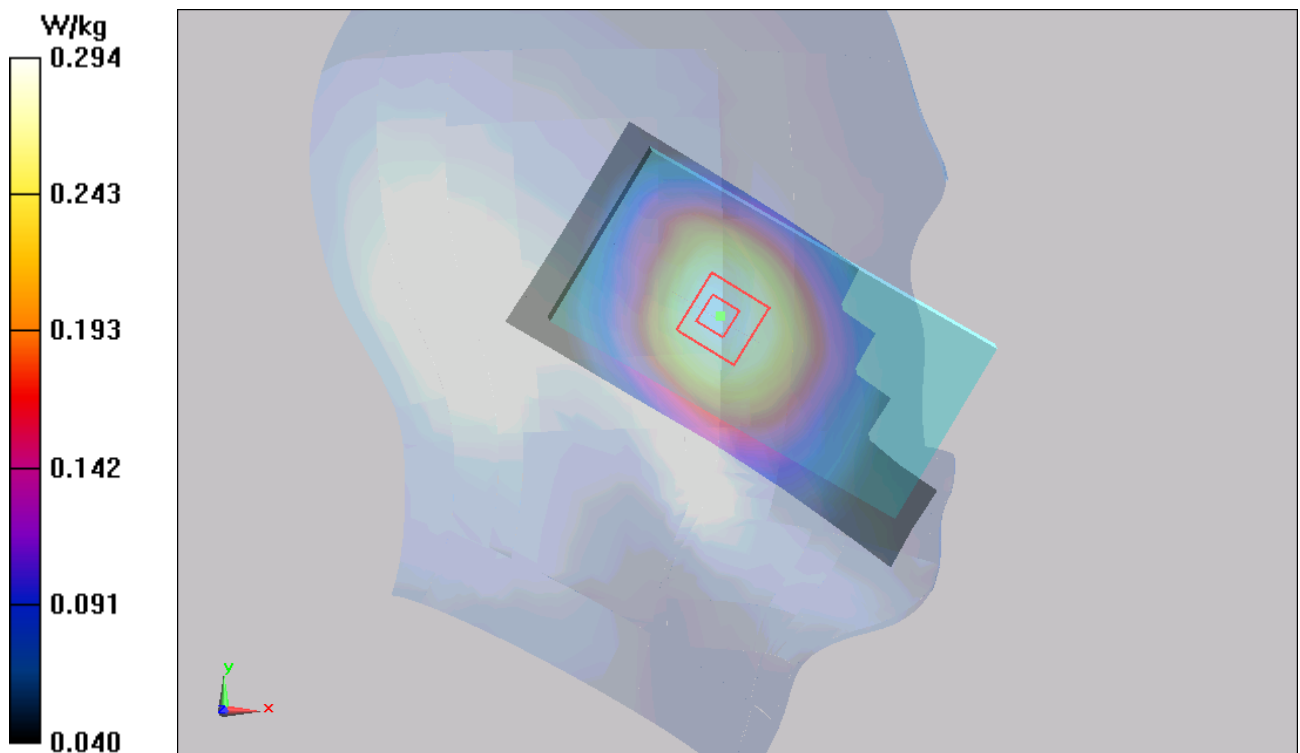


Figure 26 Left Hand Tilt 15° GSM 850 Channel 128

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GSM 850 Right Cheek High

Date/Time: 2/22/2014 8:52:31 PM

Communication System: GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 849$ MHz; $\sigma = 0.943$ mho/m; $\epsilon_r = 41.271$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.339 W/kg

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

Reference Value = 5.965 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.397 mW/g

SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.244 mW/g

Maximum value of SAR (measured) = 0.337 W/kg

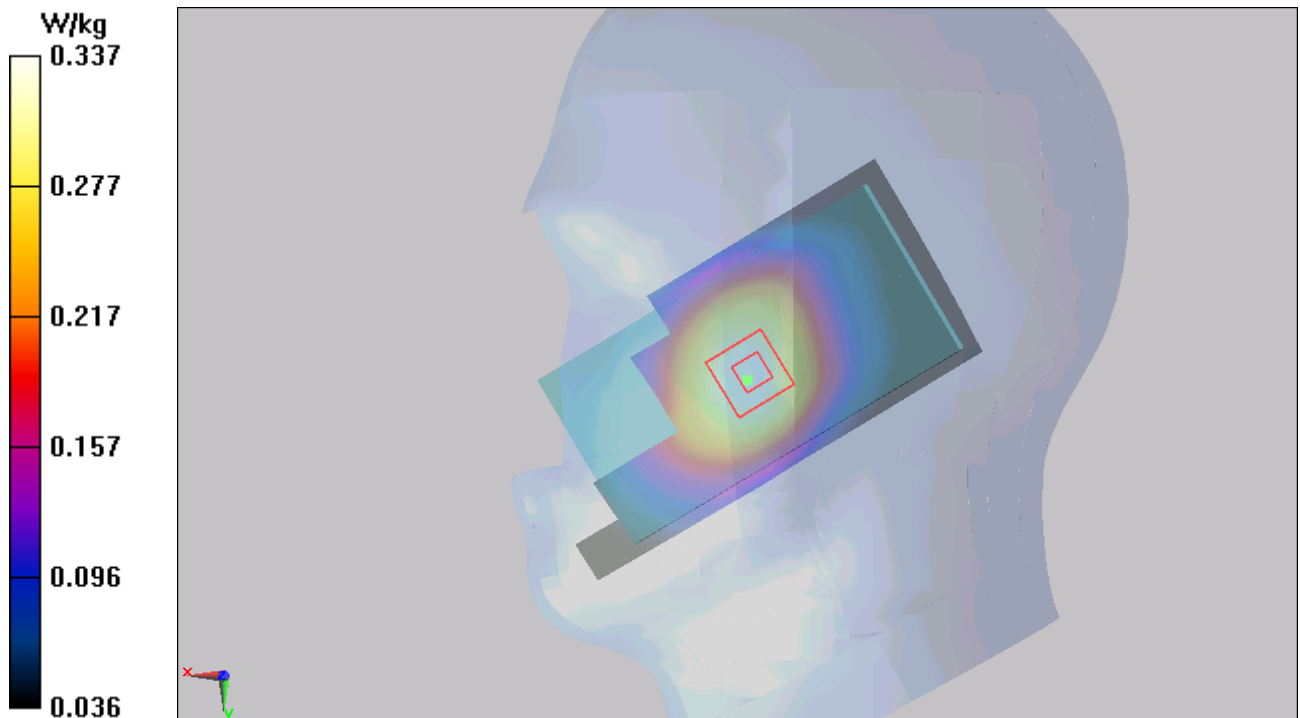


Figure 27 Right Hand Touch Cheek GSM 850 Channel 251

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GSM 850 Right Cheek Middle

Date/Time: 2/22/2014 8:37:23 PM

Communication System: GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.385 W/kg

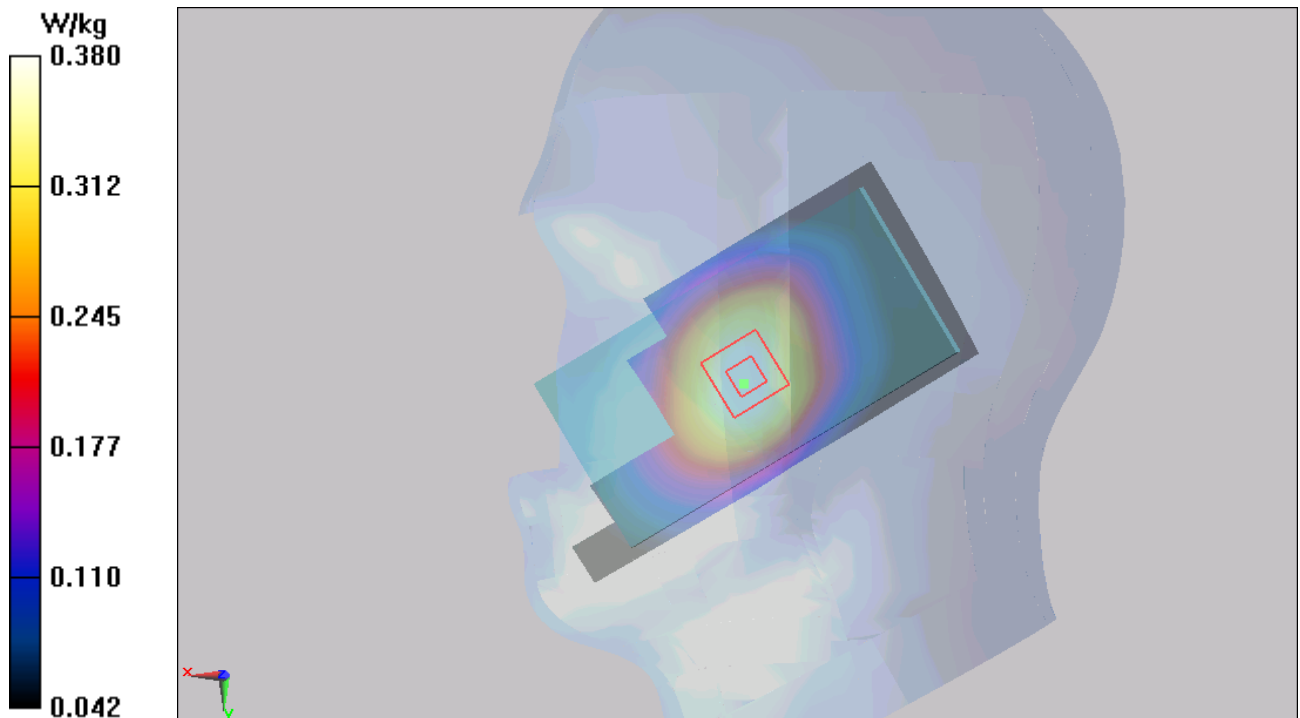
Right Cheek Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.350 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.445 mW/g

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.276 mW/g

Maximum value of SAR (measured) = 0.380 W/kg



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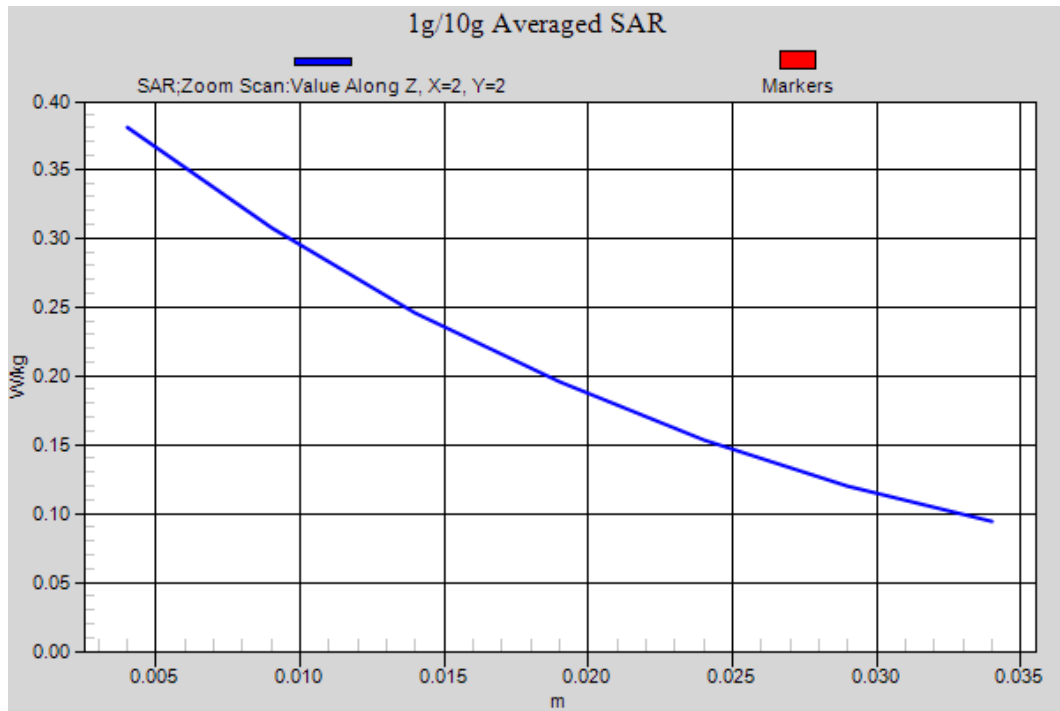


Figure 28 Right Hand Touch Cheek GSM 850 Channel 190

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GSM 850 Right Cheek Low

Date/Time: 2/22/2014 9:07:31 PM

Communication System: GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.459$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.385 W/kg

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

Reference Value = 6.305 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.453 mW/g

SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.280 mW/g

Maximum value of SAR (measured) = 0.384 W/kg

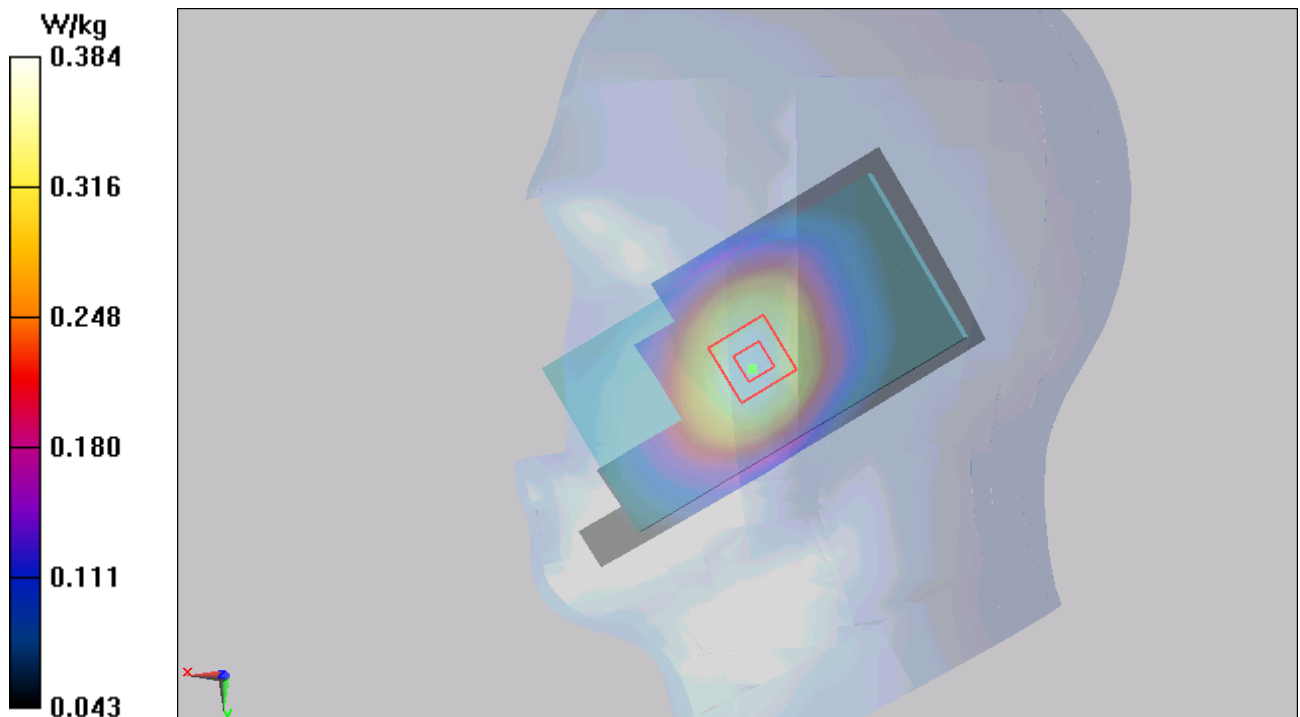


Figure 29 Right Hand Touch Cheek GSM 850 Channel 128

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GSM 850 Right Tilt High

Date/Time: 2/22/2014 11:43:42 PM

Communication System: GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 849$ MHz; $\sigma = 0.943$ mho/m; $\epsilon_r = 41.271$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.316 W/kg

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

Reference Value = 11.958 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.356 mW/g

SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.299 W/kg

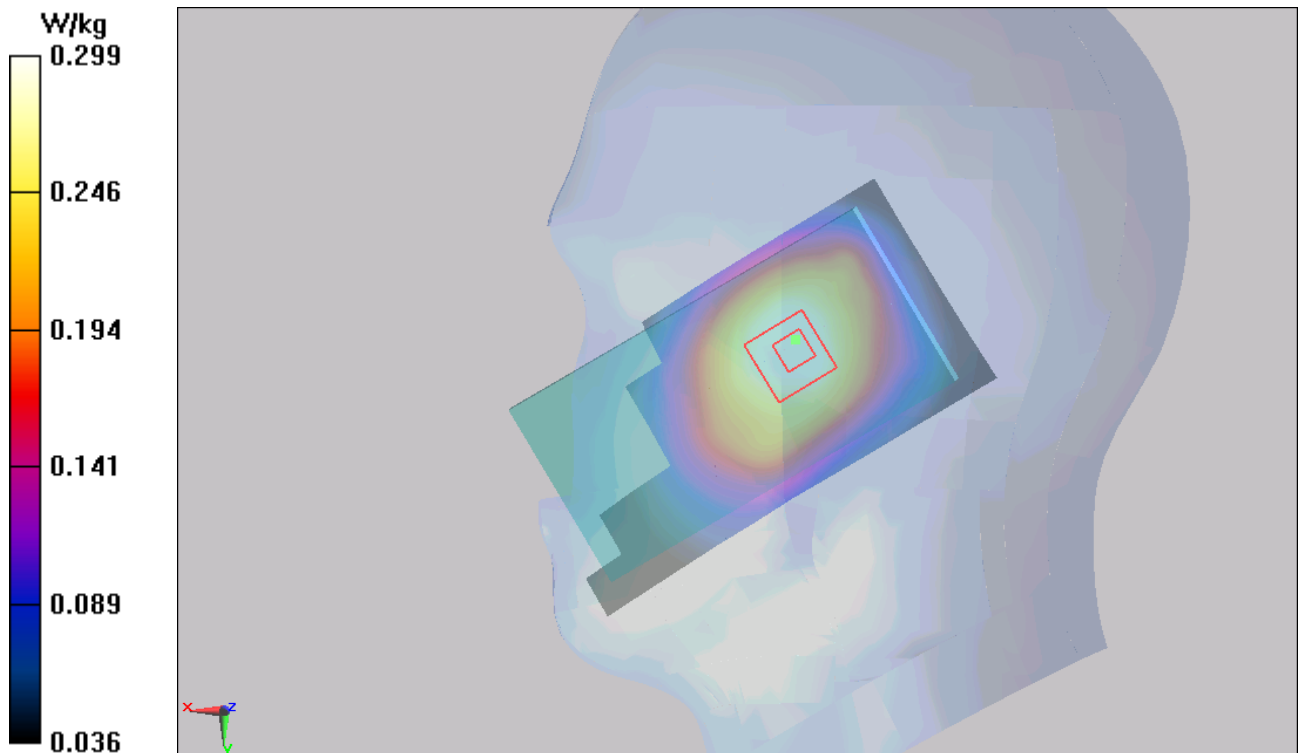


Figure 30 Right Hand Tilt 15° GSM 850 Channel 251

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GSM 850 Right Tilt Middle

Date/Time: 2/22/2014 9:37:47 PM

Communication System: GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.299 W/kg

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

Reference Value = 11.390 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.364 mW/g

SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.220 mW/g

Maximum value of SAR (measured) = 0.301 W/kg

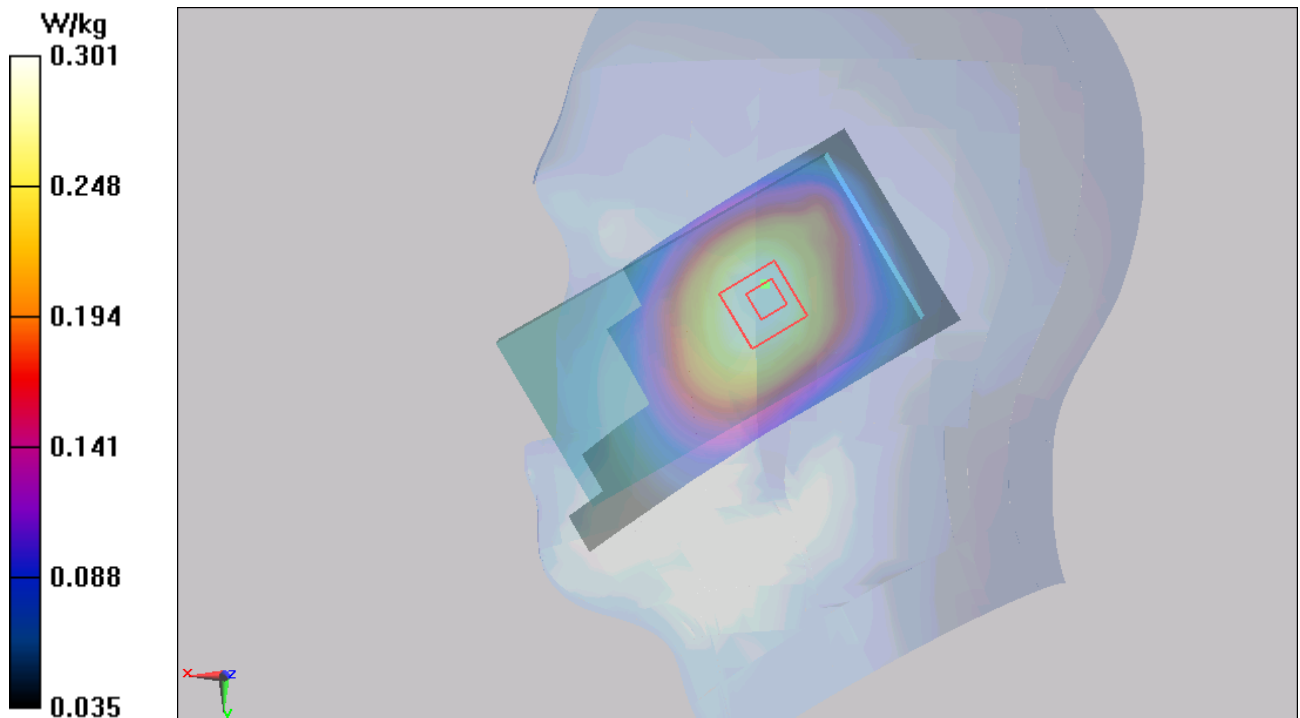


Figure 31 Right Hand Tilt 15° GSM 850 Channel 190

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GSM 850 Right Tilt Low

Date/Time: 2/22/2014 9:22:46 PM

Communication System: GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.459$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.313 W/kg

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

Reference Value = 11.807 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.374 mW/g

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.232 mW/g

Maximum value of SAR (measured) = 0.315 W/kg

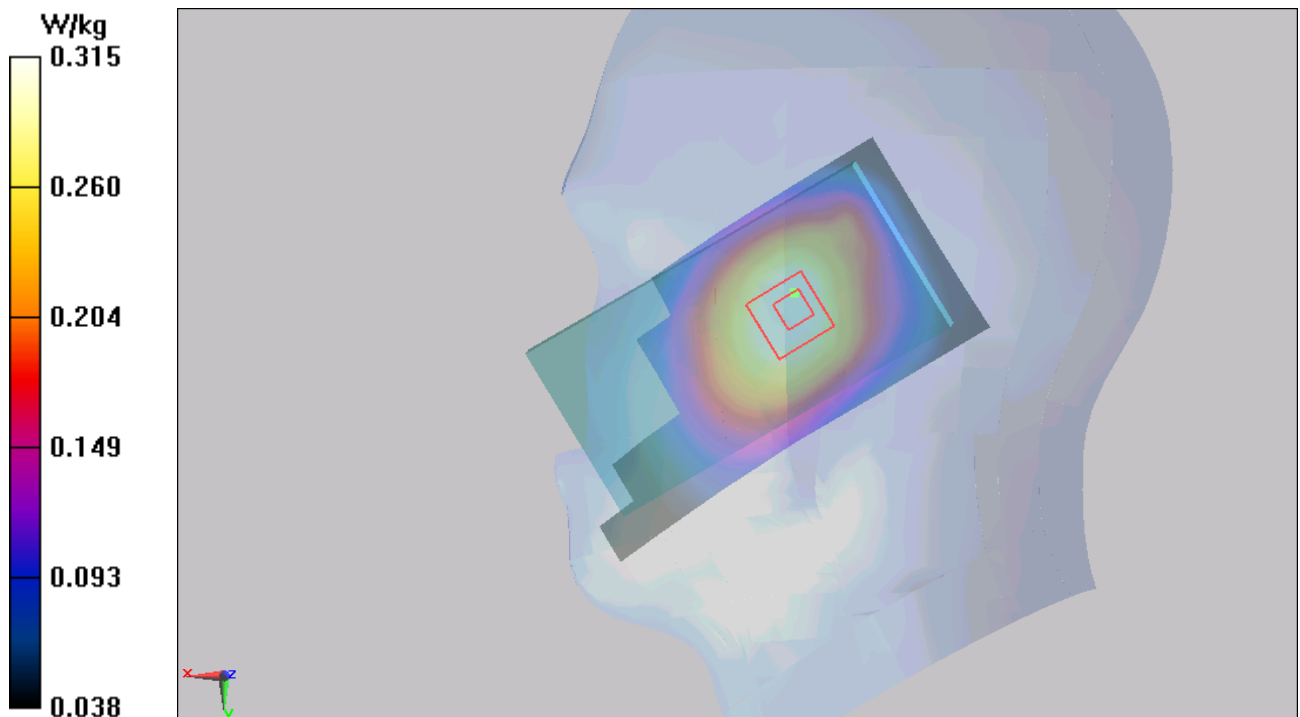


Figure 32 Right Hand Tilt 15° GSM 850 Channel 128

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GSM 850 Right Cheek Middle(Battery 2)

Date/Time: 2/23/2014 12:00:07 AM

Communication System: GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.371 W/kg

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

Reference Value = 6.357 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.440 mW/g

SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 0.370 W/kg

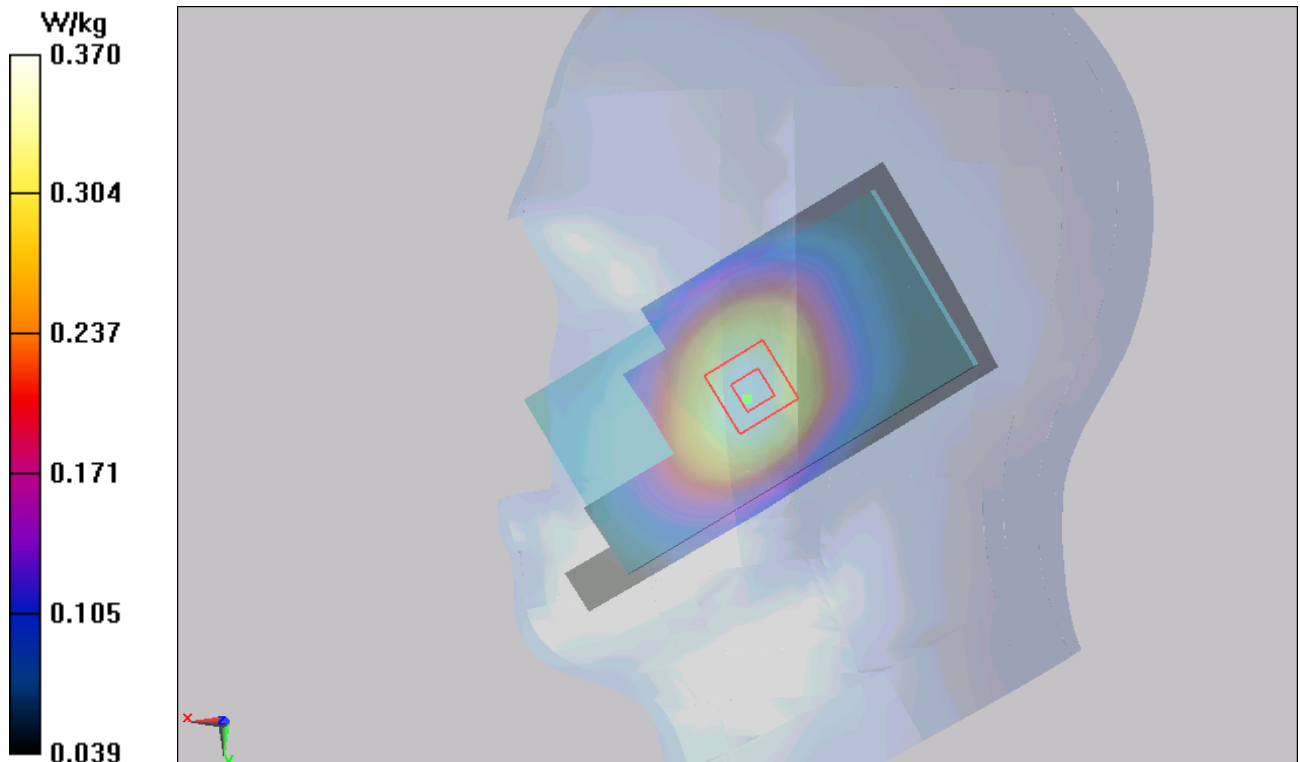


Figure 33 Right Hand Touch Cheek GSM 850 Channel 190

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GSM 850 GPRS (2Txslots) Back Side High

Date/Time: 2/23/2014 5:54:39 PM

Communication System: GPRS 2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 54.952$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

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

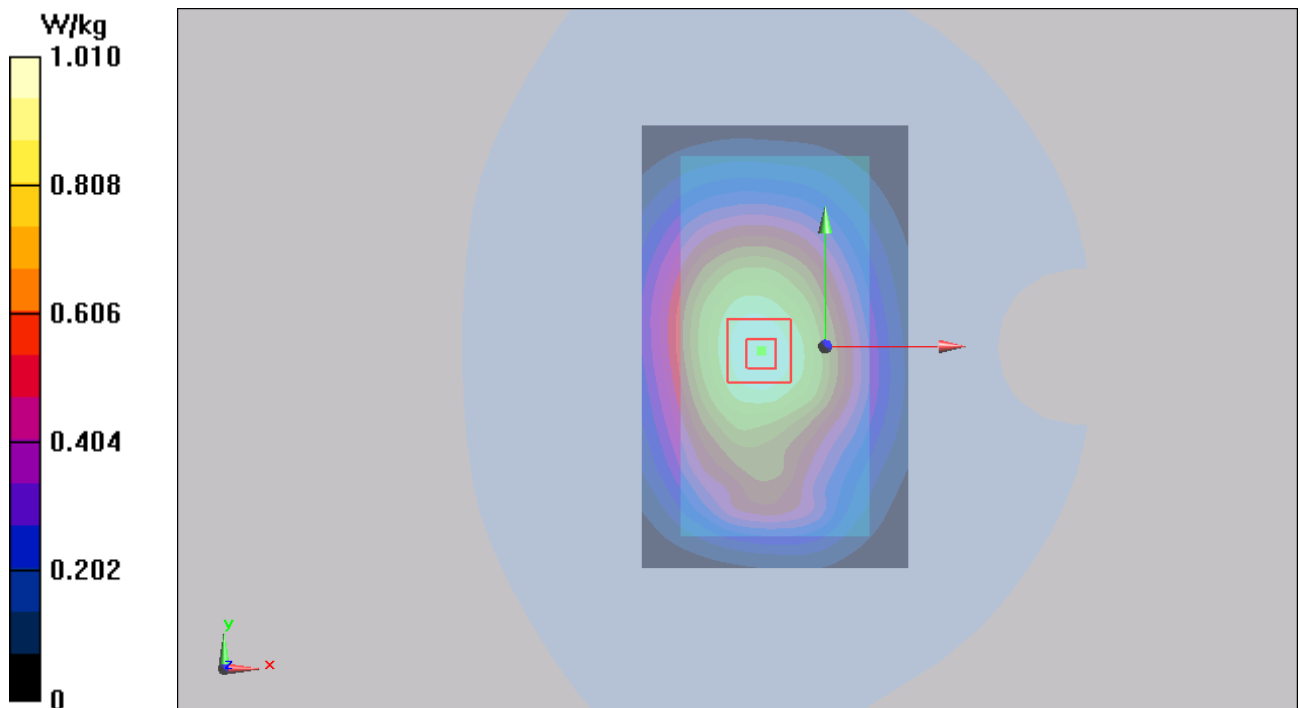
Back Side High /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.091 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.231 mW/g

SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.721 mW/g

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



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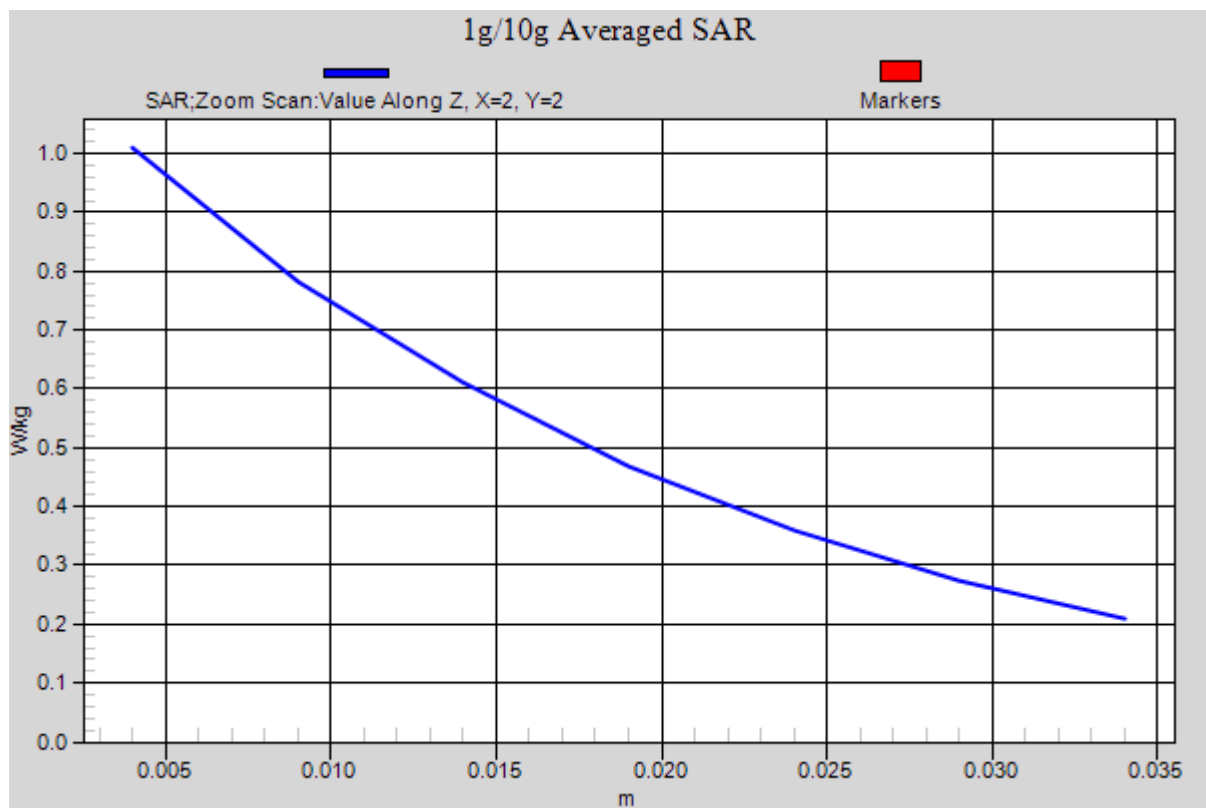


Figure 34 Body, Back Side, GSM 850 GPRS (2Txslots) Channel 251

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GSM 850 GPRS (2Txslots) Back Side Middle

Date/Time: 2/23/2014 3:44:45 PM

Communication System: GPRS 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ mho/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.905 W/kg

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

Reference Value = 30.032 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.086 mW/g

SAR(1 g) = 0.860 mW/g; SAR(10 g) = 0.644 mW/g

Maximum value of SAR (measured) = 0.905 W/kg

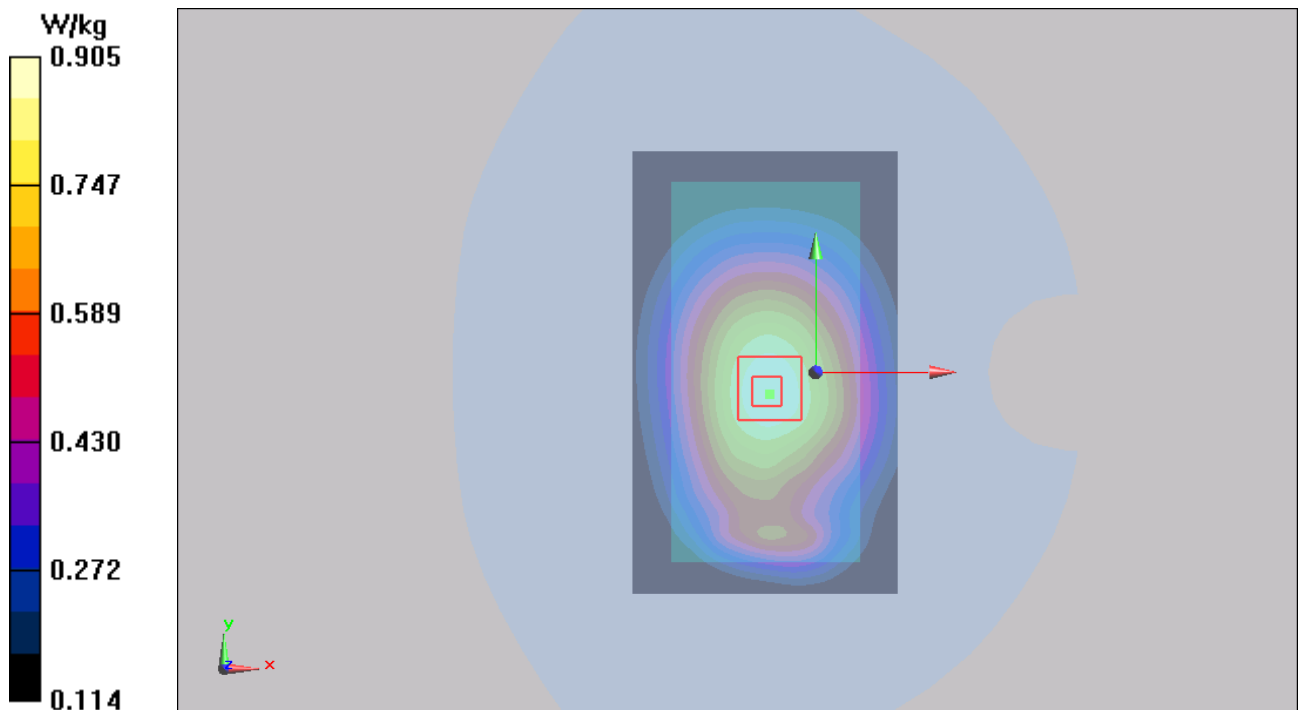


Figure 35 Body, Back Side, GSM 850 GPRS (2Txslots) Channel 190

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GSM 850 GPRS (2Txslots) Back Side Low

Date/Time: 2/23/2014 6:12:24 PM

Communication System: GPRS 2TX; Frequency: 824.2 MHz; Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.982$ mho/m; $\epsilon_r = 55.199$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.930 W/kg

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

Reference Value = 30.576 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.119 mW/g

SAR(1 g) = 0.880 mW/g; SAR(10 g) = 0.657 mW/g

Maximum value of SAR (measured) = 0.927 W/kg

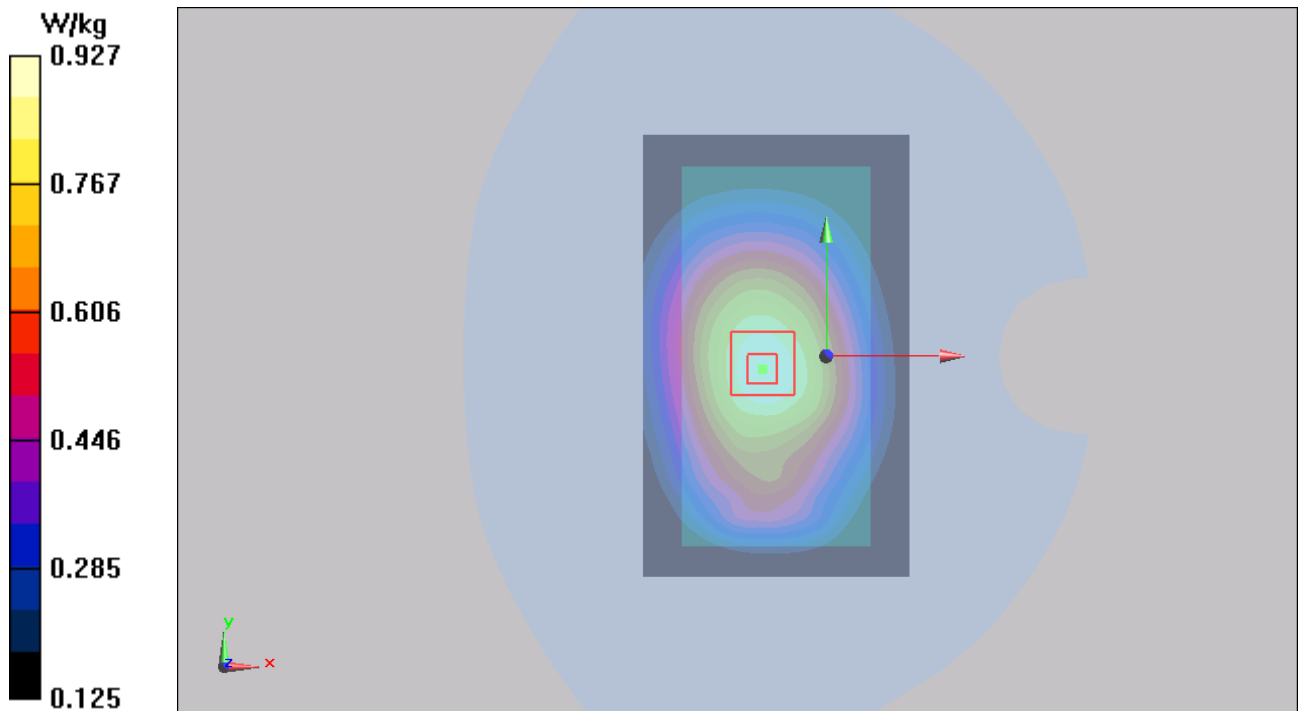


Figure 36 Body, Back Side, GSM 850 GPRS (2Txslots) Channel 128

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GSM 850 GPRS (2Txslots) Front Side High

Date/Time: 2/23/2014 12:59:22 PM

Communication System: GPRS 2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 54.952$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.557 W/kg

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

Reference Value = 23.371 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.667 mW/g

SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (measured) = 0.558 W/kg

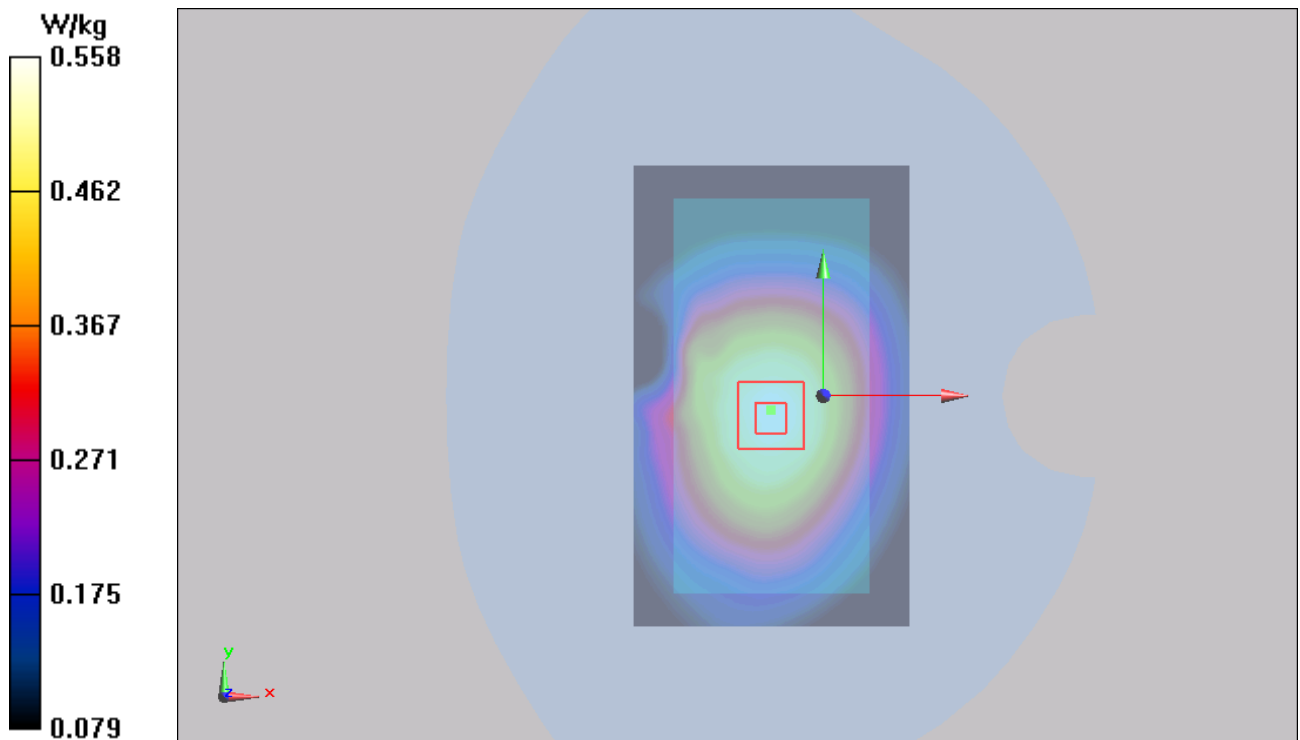


Figure 37 Body, Front Side, GSM 850 GPRS (2Txslots) Channel 251

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GSM 850 GPRS (2Txslots) Front Side Middle

Date/Time: 2/23/2014 4:38:38 PM

Communication System: GPRS 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ mho/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.715 W/kg

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

Reference Value = 25.914 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.838 mW/g

SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.507 mW/g

Maximum value of SAR (measured) = 0.703 W/kg

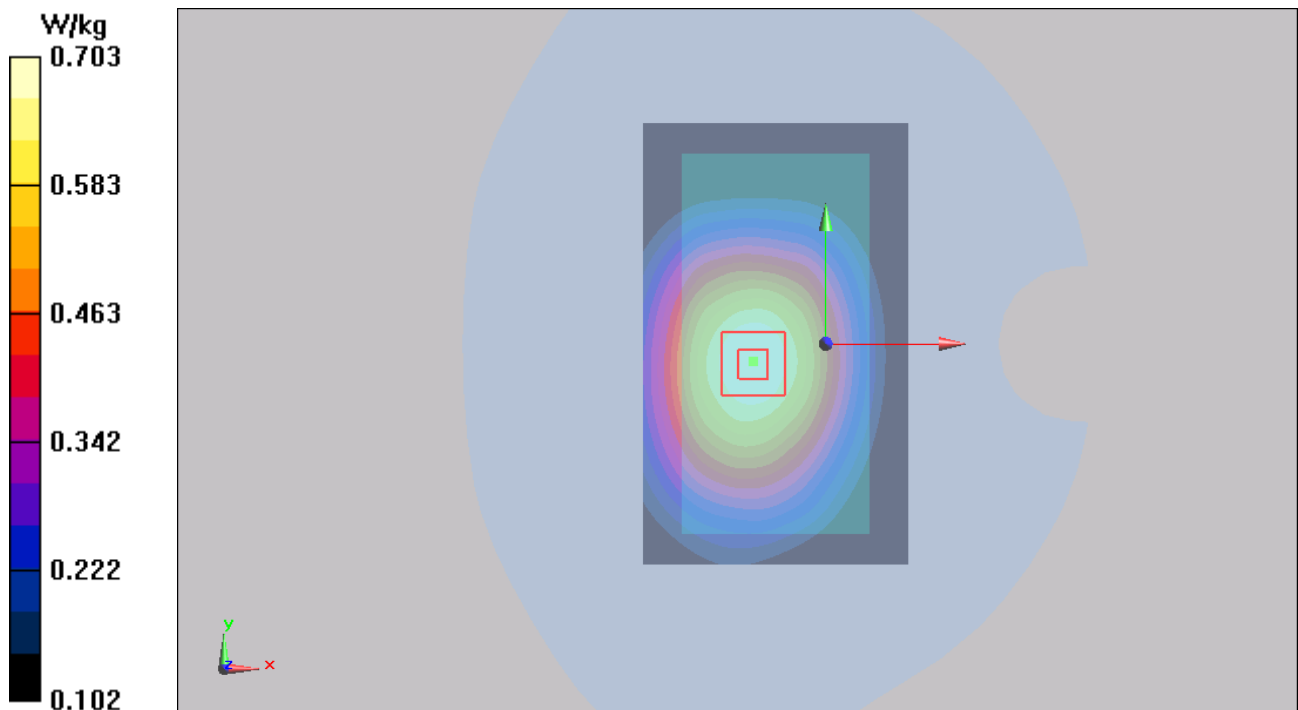


Figure 38 Body, Front Side, GSM 850 GPRS (2Txslots) Channel 190

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GSM 850 GPRS (2Txslots) Front Side Low

Date/Time: 2/23/2014 12:41:31 PM

Communication System: GPRS 2TX; Frequency: 824.2 MHz; Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.982$ mho/m; $\epsilon_r = 55.199$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.511 W/kg

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

Reference Value = 22.089 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.646 mW/g

SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.349 mW/g

Maximum value of SAR (measured) = 0.511 W/kg

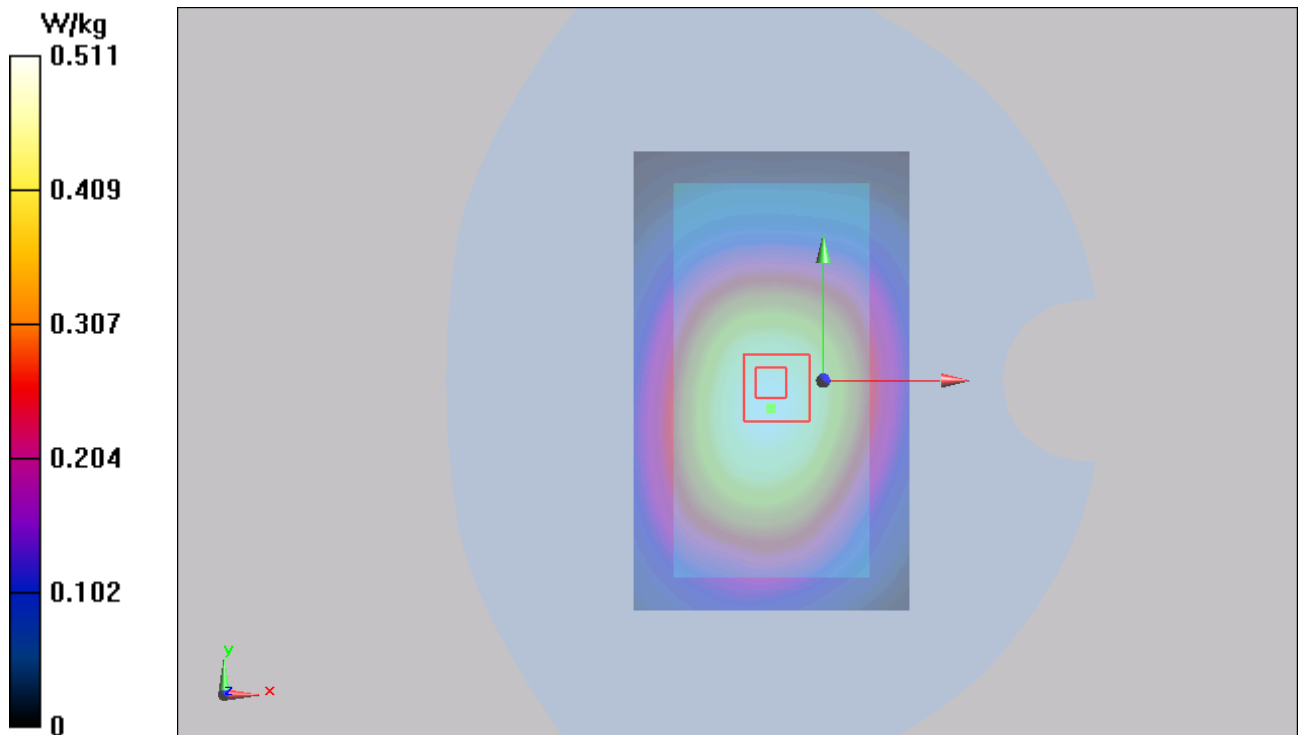


Figure 39 Body, Front Side, GSM 850 GPRS (2Txslots) Channel 128

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GSM 850 GPRS (2Txslots) Left Edge Middle

Date/Time: 2/23/2014 5:19:46 PM

Communication System: GPRS 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ mho/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Edge Middle /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.471 W/kg

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

Reference Value = 21.574 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.615 mW/g

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.304 mW/g

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

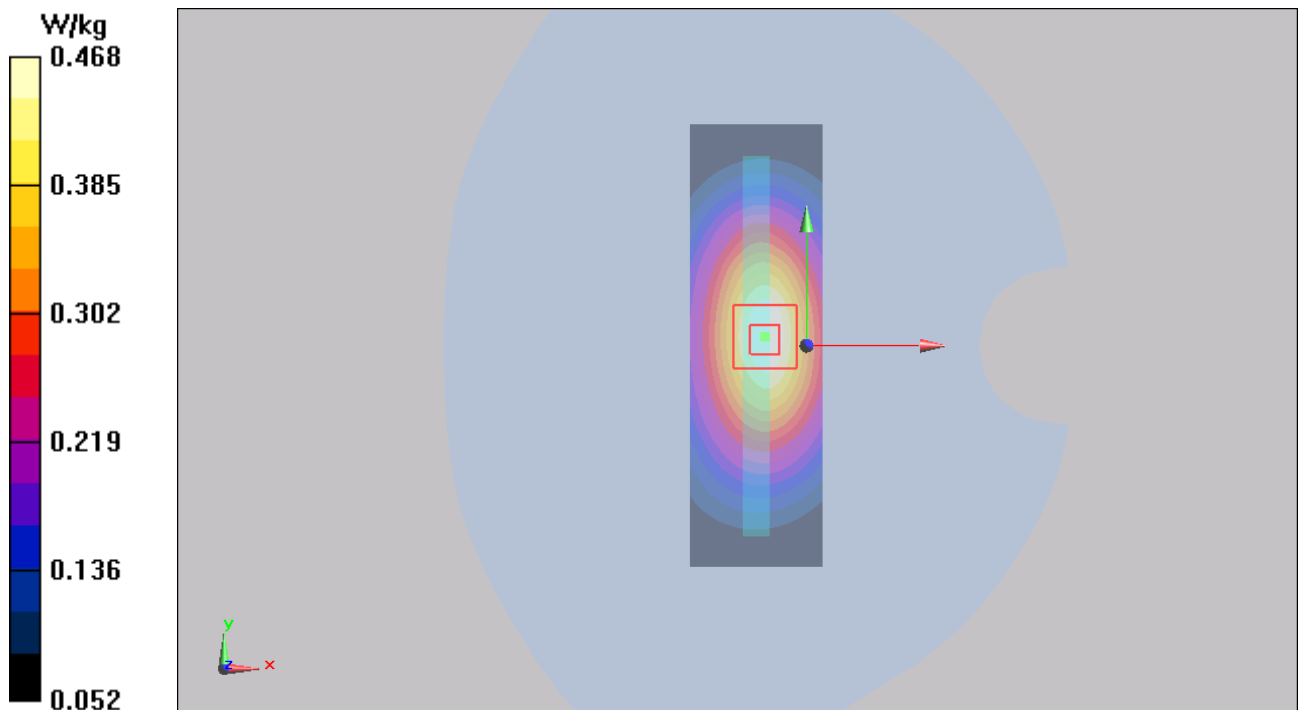


Figure 40 Body, Left Edge, GSM 850 GPRS (2Txslots) Channel 190

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GSM 850 GPRS (2Txslots) Right Edge High

Date/Time: 2/23/2014 1:38:55 PM

Communication System: GPRS 2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 54.952$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Edge High /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.647 W/kg

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

Reference Value = 25.264 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.864 mW/g

SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.419 mW/g

Maximum value of SAR (measured) = 0.649 W/kg

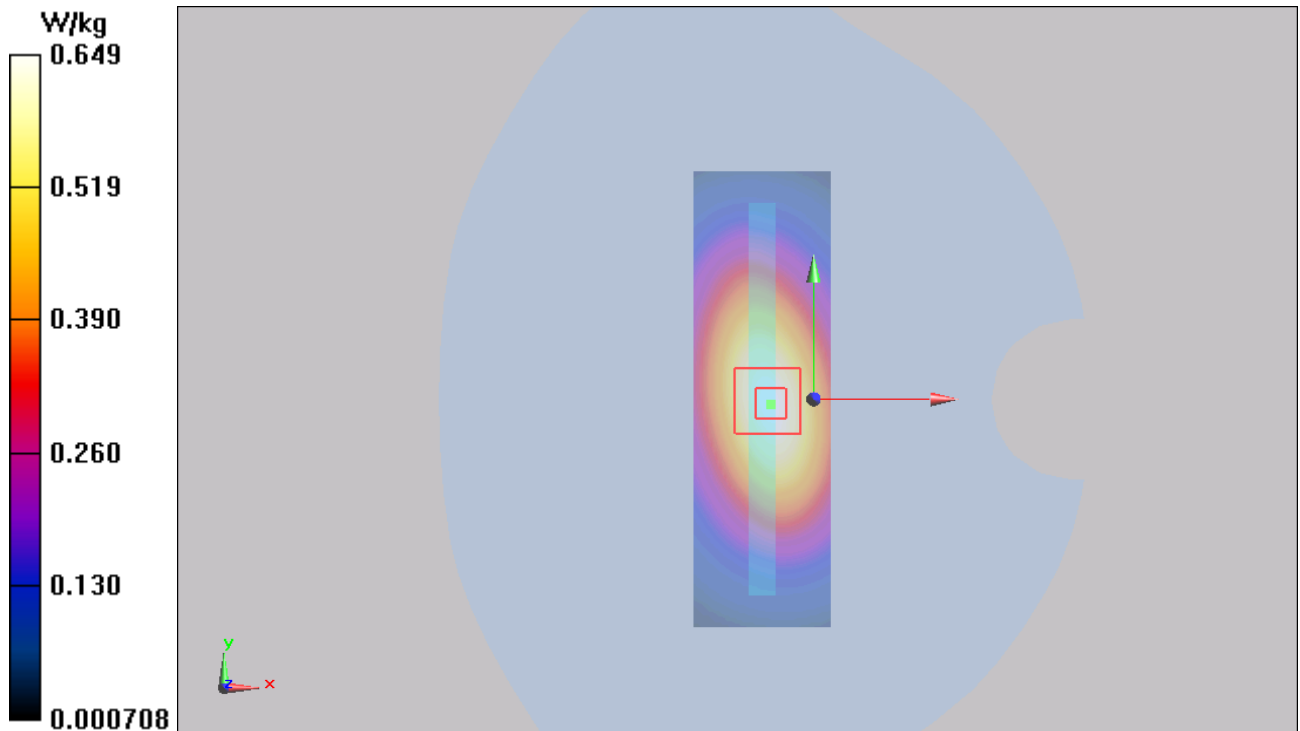


Figure 41 Body, Right Edge, GSM 850 GPRS (2Txslots) Channel 251

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GSM 850 GPRS (2Txslots) Right Edge Middle

Date/Time: 2/23/2014 5:02:43 PM

Communication System: GPRS 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ mho/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Edge Middle /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.854 W/kg

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

Reference Value = 28.238 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.124 mW/g

SAR(1 g) = 0.784 mW/g; SAR(10 g) = 0.535 mW/g

Maximum value of SAR (measured) = 0.835 W/kg

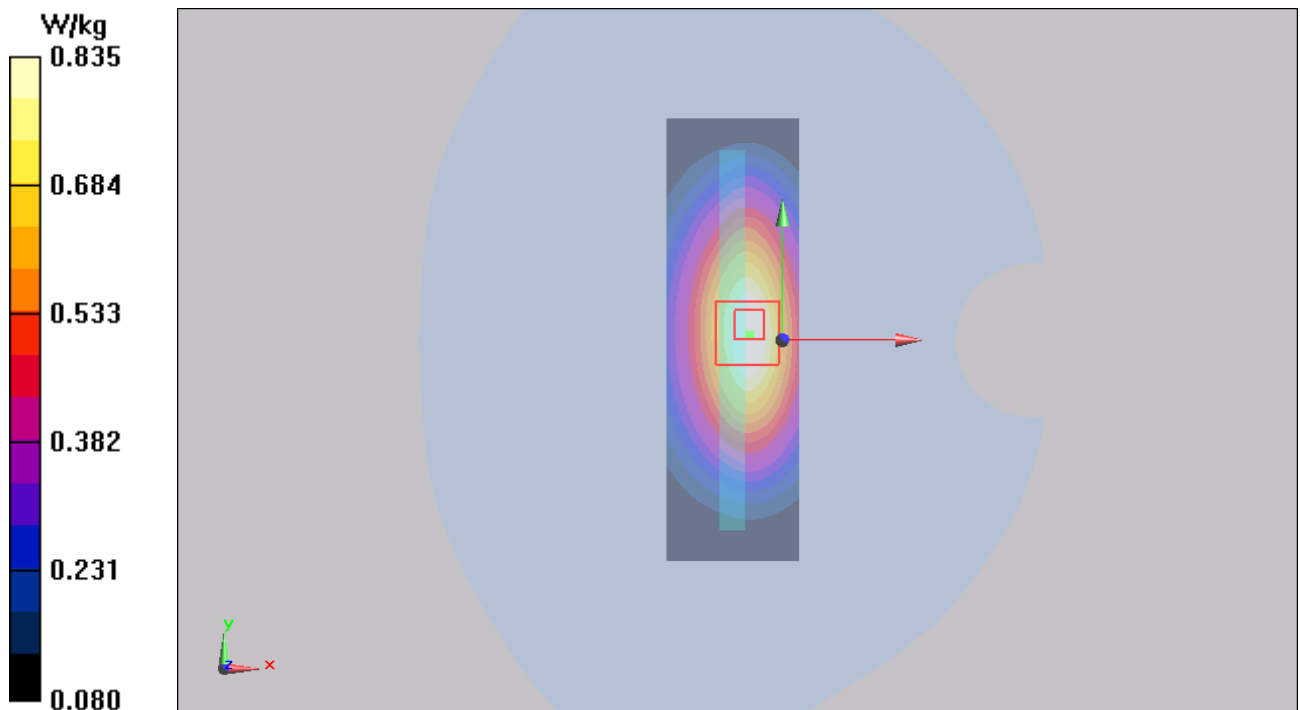


Figure 42 Body, Right Edge, GSM 850 GPRS (2Txslots) Channel 190

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GSM 850 GPRS (2Txslots) Right Edge Low

Date/Time: 2/23/2014 1:52:42 PM

Communication System: GPRS 2TX; Frequency: 824.2 MHz; Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.982$ mho/m; $\epsilon_r = 55.199$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Edge Low /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.630 W/kg

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

Reference Value = 25.636 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.896 mW/g

SAR(1 g) = 0.617 mW/g; SAR(10 g) = 0.414 mW/g

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

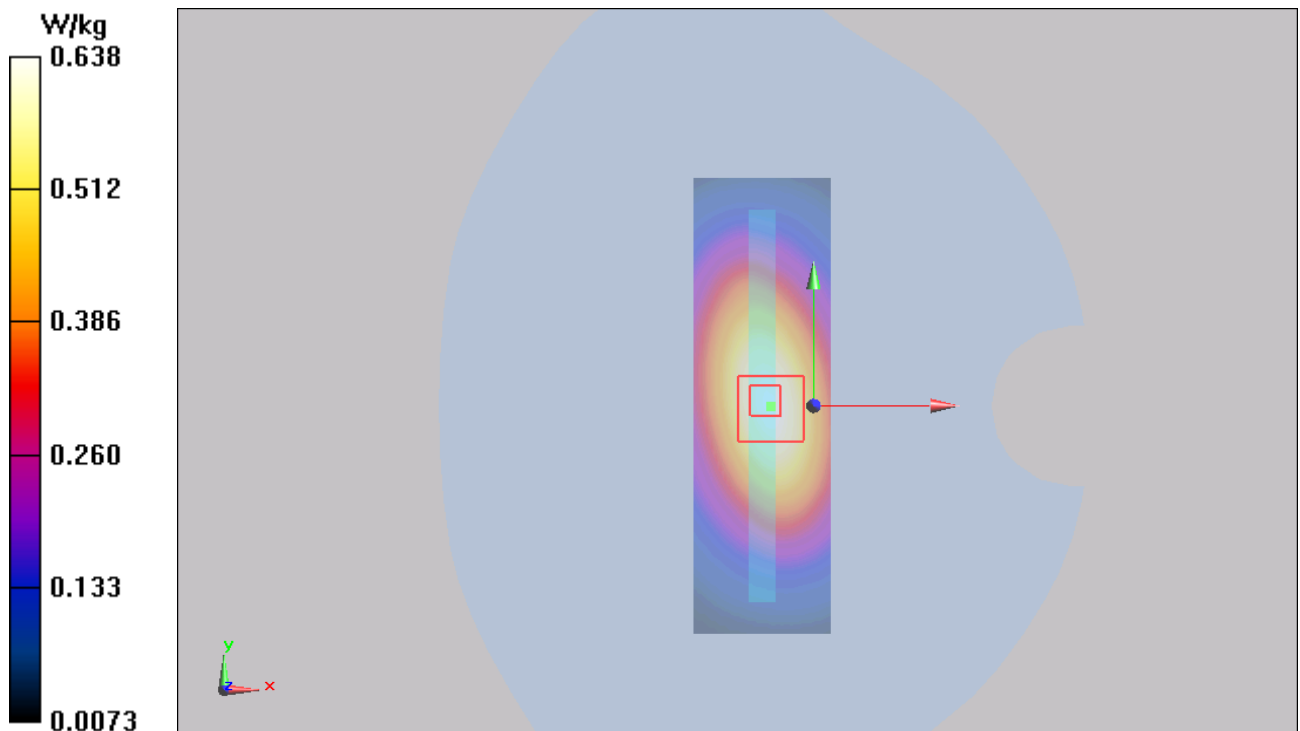


Figure 43 Body, Right Edge, GSM 850 GPRS (2Txslots) Channel 128

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GSM 850 GPRS (2Txslots) Bottom Edge Middle

Date/Time: 2/23/2014 5:40:45 PM

Communication System: GPRS 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ mho/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Bottom Edge Middle /Area Scan (31x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.227 W/kg

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

Reference Value = 14.068 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.335 mW/g

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.117 mW/g

Maximum value of SAR (measured) = 0.218 W/kg

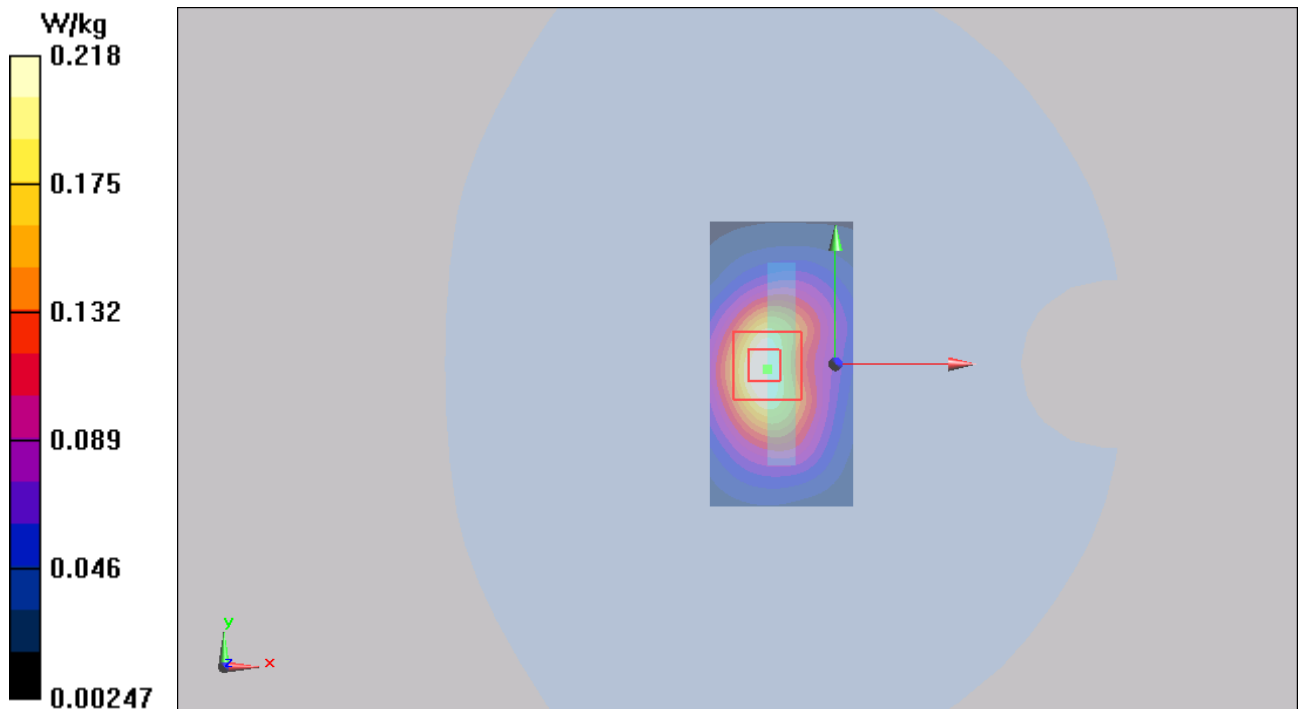


Figure 44 Body, Bottom Edge, GSM 850 GPRS (2Txslots) Channel 190

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GSM 850 EGPRS (2Txslots) Back Side High

Date/Time: 2/23/2014 6:47:59 PM

Communication System: EGPRS 2TX; Frequency: 824.2 MHz; Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.982$ mho/m; $\epsilon_r = 55.199$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

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

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

Reference Value = 31.030 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.156 mW/g

SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.681 mW/g

Maximum value of SAR (measured) = 0.951 W/kg

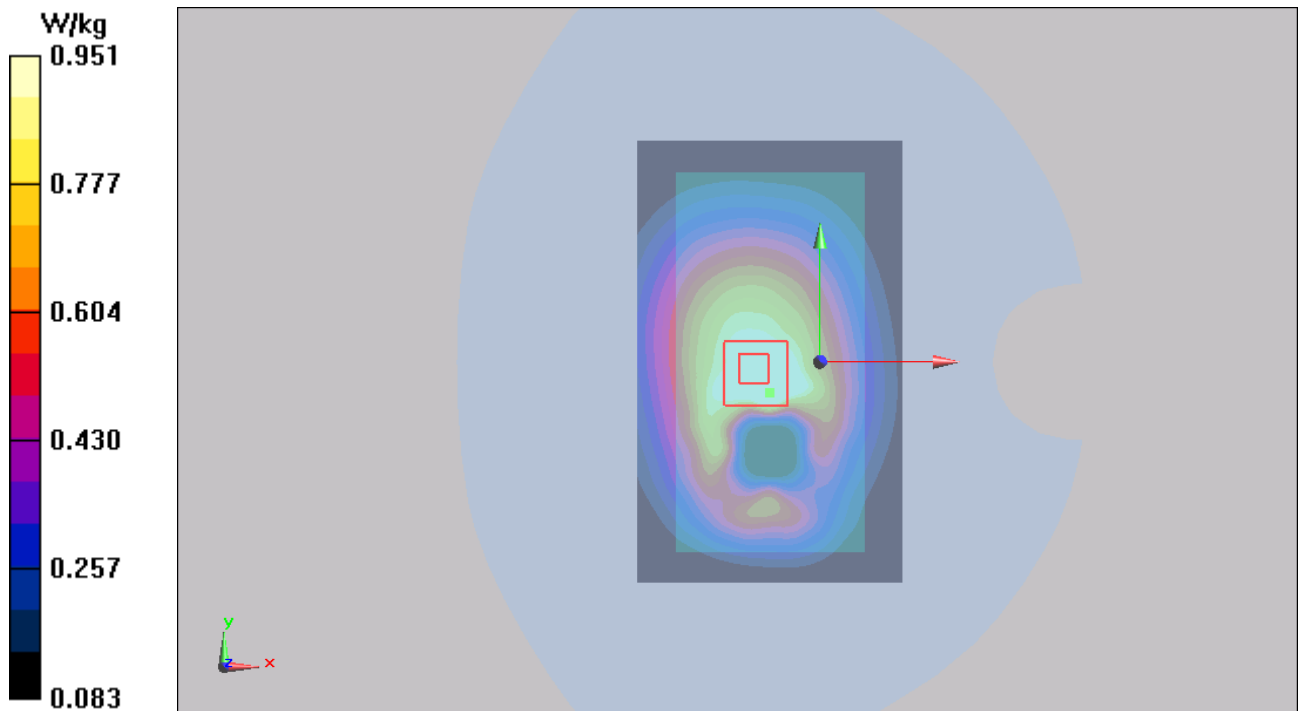


Figure 45 Body, Back Side, GSM 850 EGPRS (2Txslots) Channel 251

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GSM 850 GPRS (2Txslots) Back Side High(Battery 2)

Date/Time: 2/23/2014 6:30:13 PM

Communication System: GPRS 2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 54.952$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.992 W/kg

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

Reference Value = 30.878 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.224 mW/g

SAR(1 g) = 0.949 mW/g; SAR(10 g) = 0.709 mW/g

Maximum value of SAR (measured) = 0.996 W/kg

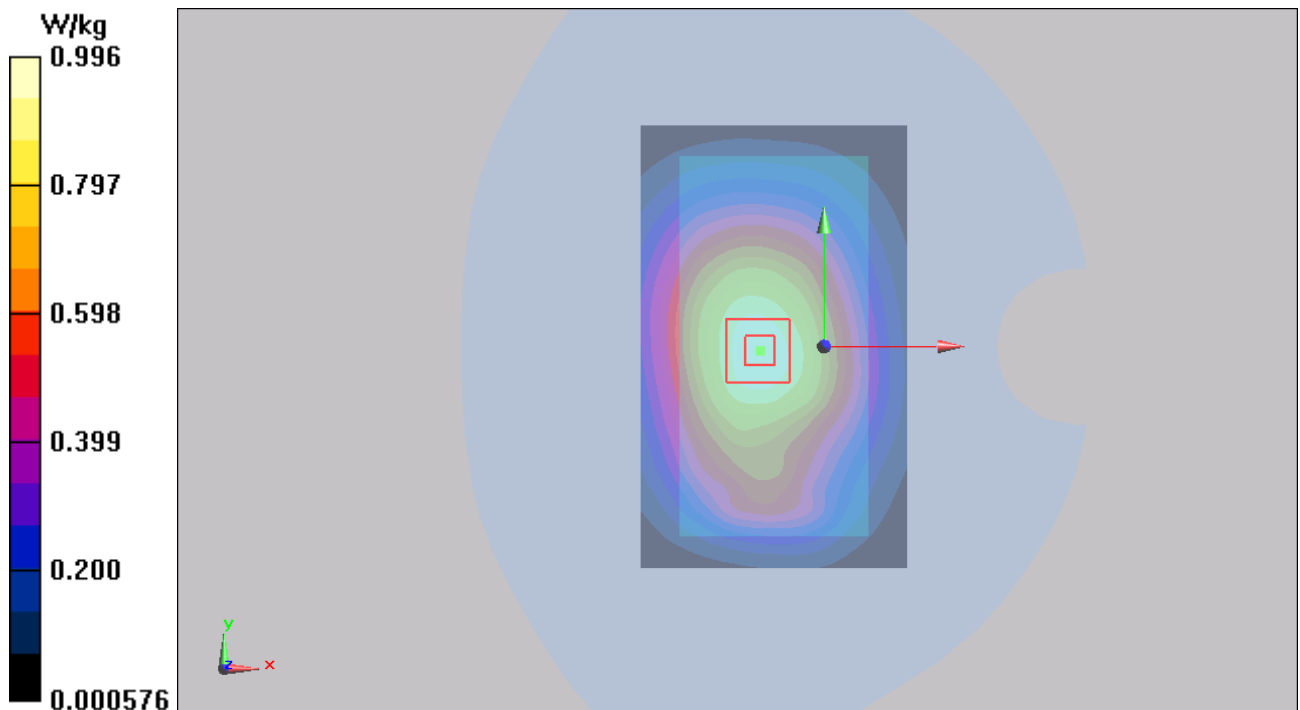


Figure 46 Body, Back Side, GSM 850 GPRS (2Txslots) Channel 251

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GSM 850 GPRS (2Txslots) Back Side High(1st Repeated SAR)

Date/Time: 2/23/2014 7:13:50 PM

Communication System: GPRS 2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 54.952$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.987 W/kg

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

Reference Value = 31.081 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.195 mW/g

SAR(1 g) = 0.939 mW/g; SAR(10 g) = 0.687 mW/g

Maximum value of SAR (measured) = 0.988 W/kg

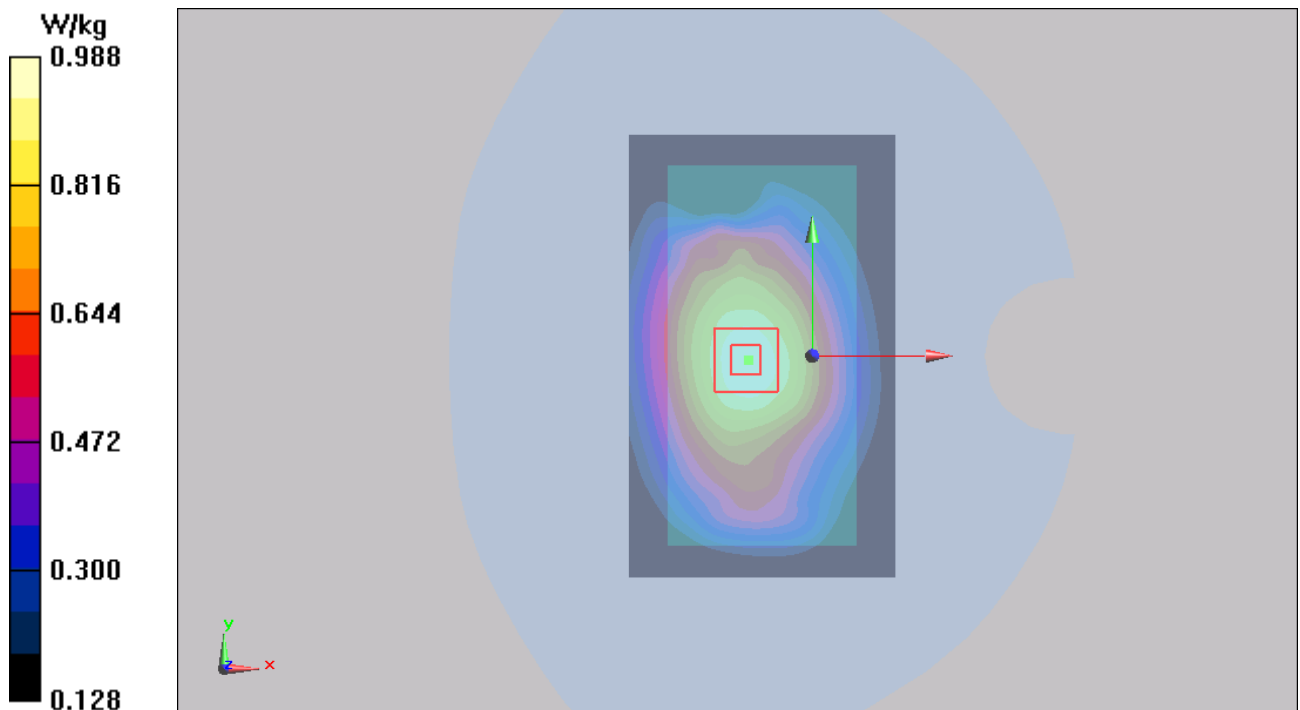


Figure 47 Body, Back Side, GSM 850 GPRS (2Txslots) Channel 251

GSM 850 DTM Left Cheek High

Date/Time: 2/22/2014 12:14:09 PM

Communication System: DTM GPRS 2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 41.271$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Cheek High /Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.436 W/kg

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

Reference Value = 5.294 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.314 W/kg

Maximum value of SAR (measured) = 0.441 W/kg

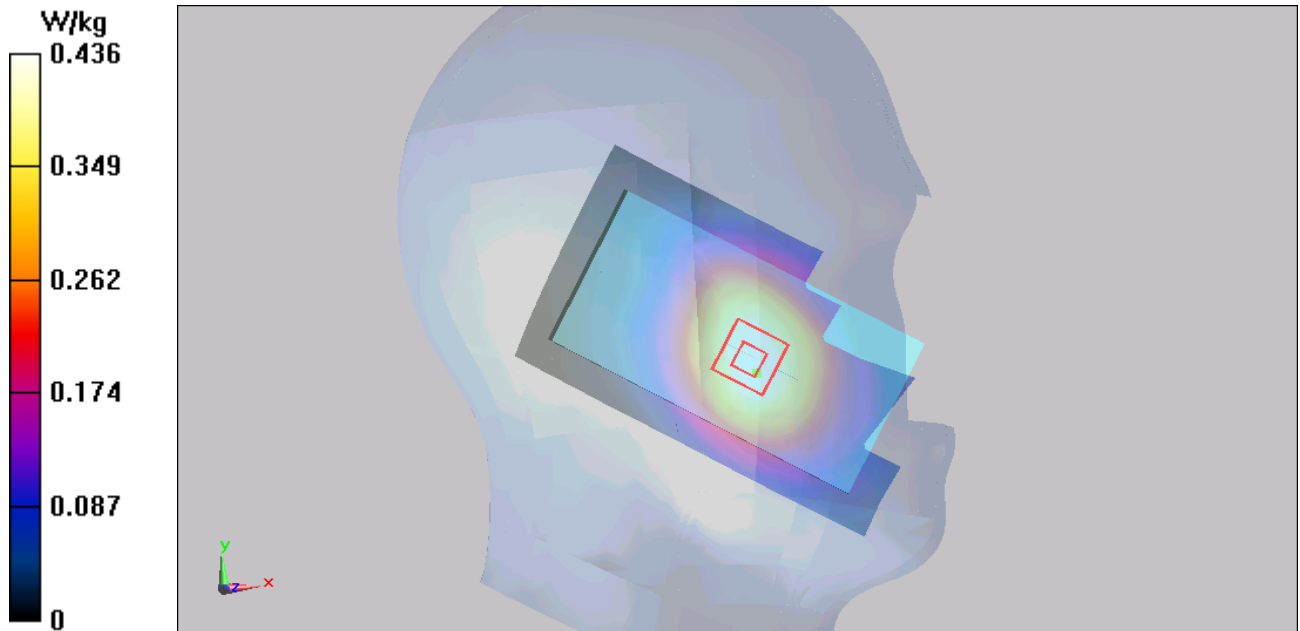


Figure 48 Left Hand Touch Cheek GSM 850 DTM Channel 251

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GSM 850 DTM Left Cheek Middle

Date/Time: 2/22/2014 11:52:27 AM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.451 W/kg

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

Reference Value = 5.782 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.540 W/kg

SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 0.447 W/kg

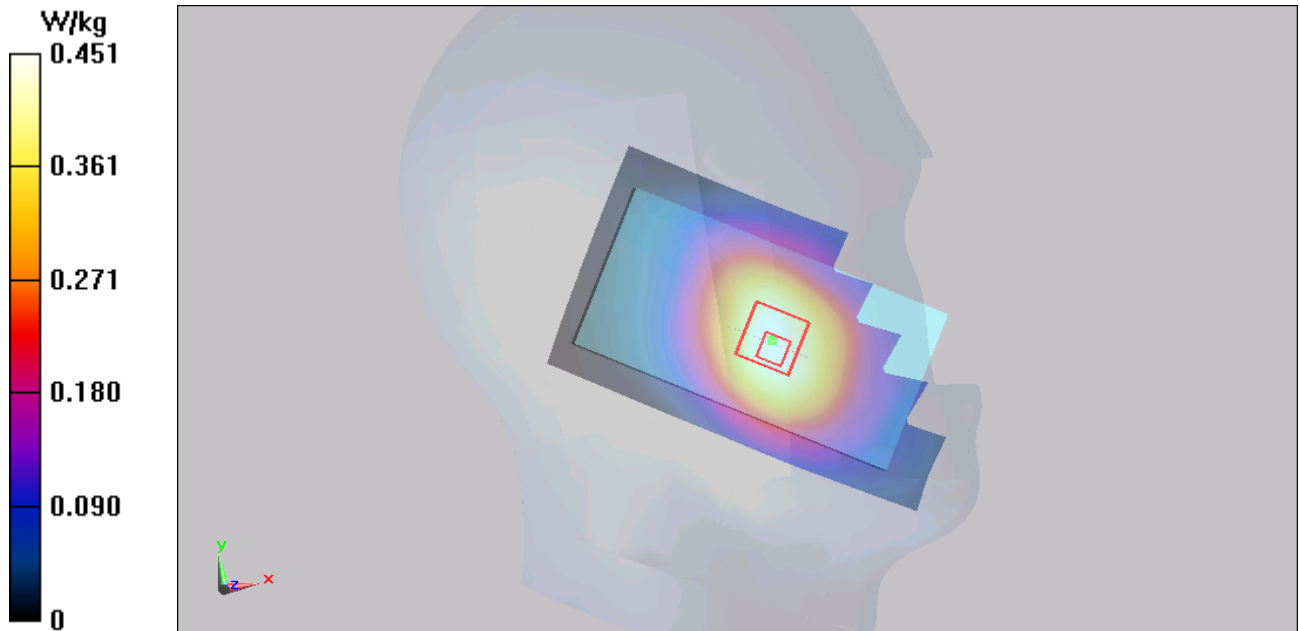


Figure 49 Left Hand Touch Cheek GSM 850 DTM Channel 190

GSM 850 DTM Left Cheek Low

Date/Time: 2/22/2014 12:29:04 PM

Communication System: DTM GPRS 2TX; Frequency: 824.2 MHz; Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.459$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Cheek Low /Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.415 W/kg

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

Reference Value = 5.002 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.509 W/kg

SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.295 W/kg

Maximum value of SAR (measured) = 0.412 W/kg

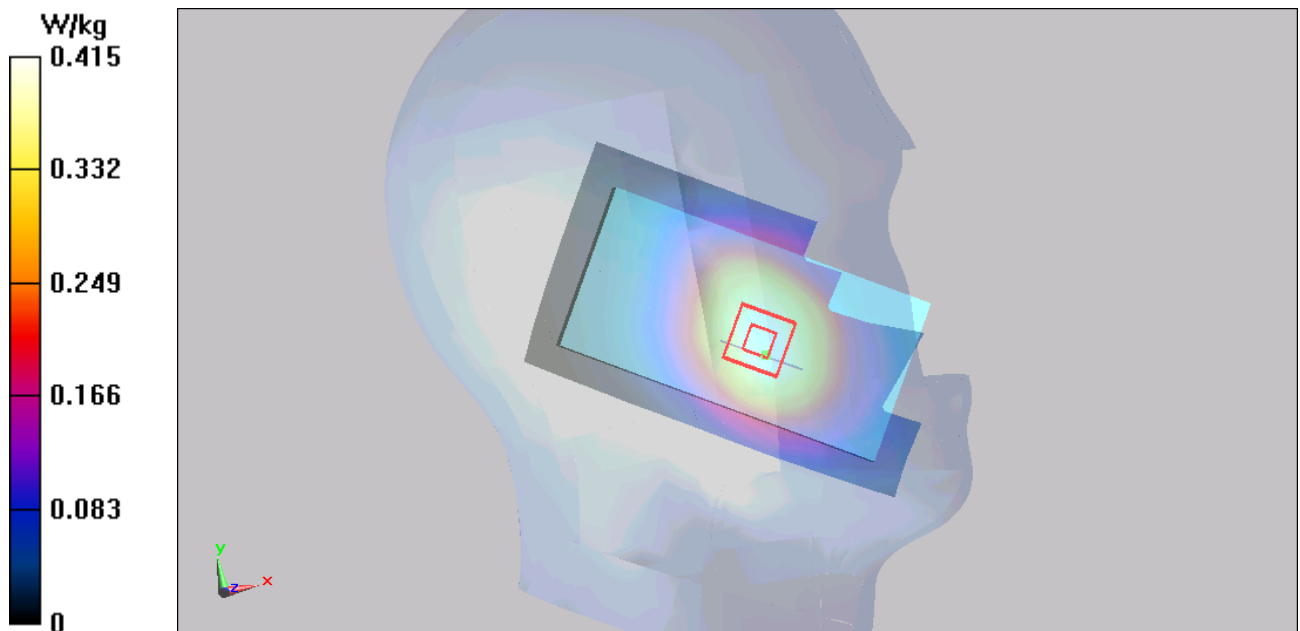


Figure 50 Left Hand Touch Cheek GSM 850 DTM Channel 128

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GSM 850 DTM Left Tilt High

Date/Time: 2/22/2014 1:18:37 PM

Communication System:DTM GPRS 2TX; Frequency: 848.8 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 41.271$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Tilt High /Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.382 W/kg

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

Reference Value = 10.931 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.274 W/kg

Maximum value of SAR (measured) = 0.368 W/kg

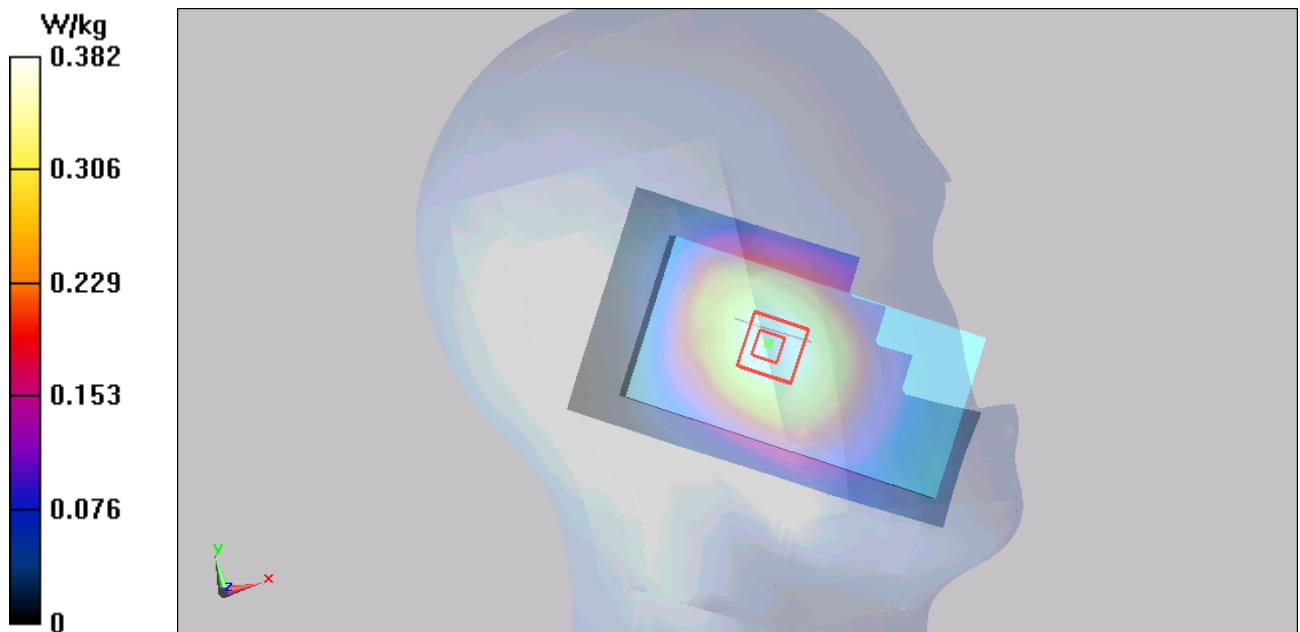


Figure 51 Left Hand Tilt 15° GSM 850 DTM Channel 251

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GSM 850 DTM Left Tilt Middle

Date/Time: 2/22/2014 1:04:07 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.394 W/kg

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

Reference Value = 11.120 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.460 W/kg

SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 0.384 W/kg

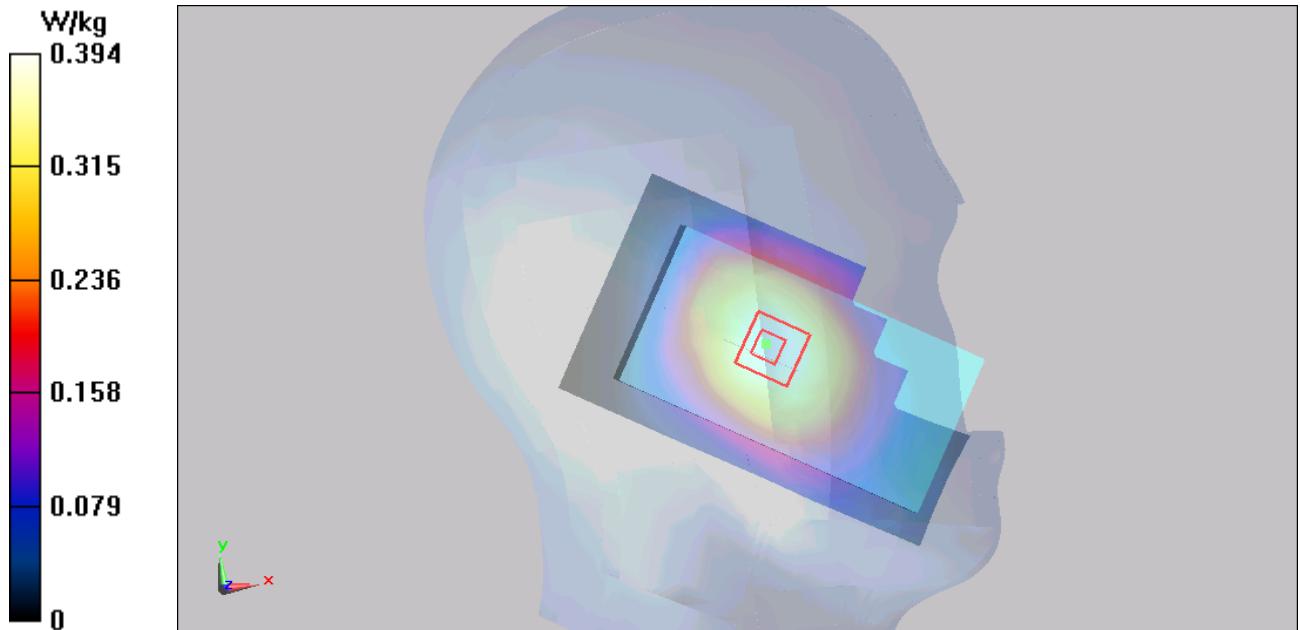


Figure 52 Left Hand Tilt 15° GSM 850 DTM Channel 190

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GSM 850 DTM Left Tilt Low

Date/Time: 2/22/2014 12:47:00 PM

Communication System:DTM GPRS 2TX; Frequency: 824.2 MHz;Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.459$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Tilt Low /Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.382 W/kg

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

Reference Value = 10.810 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.272 W/kg

Maximum value of SAR (measured) = 0.371 W/kg

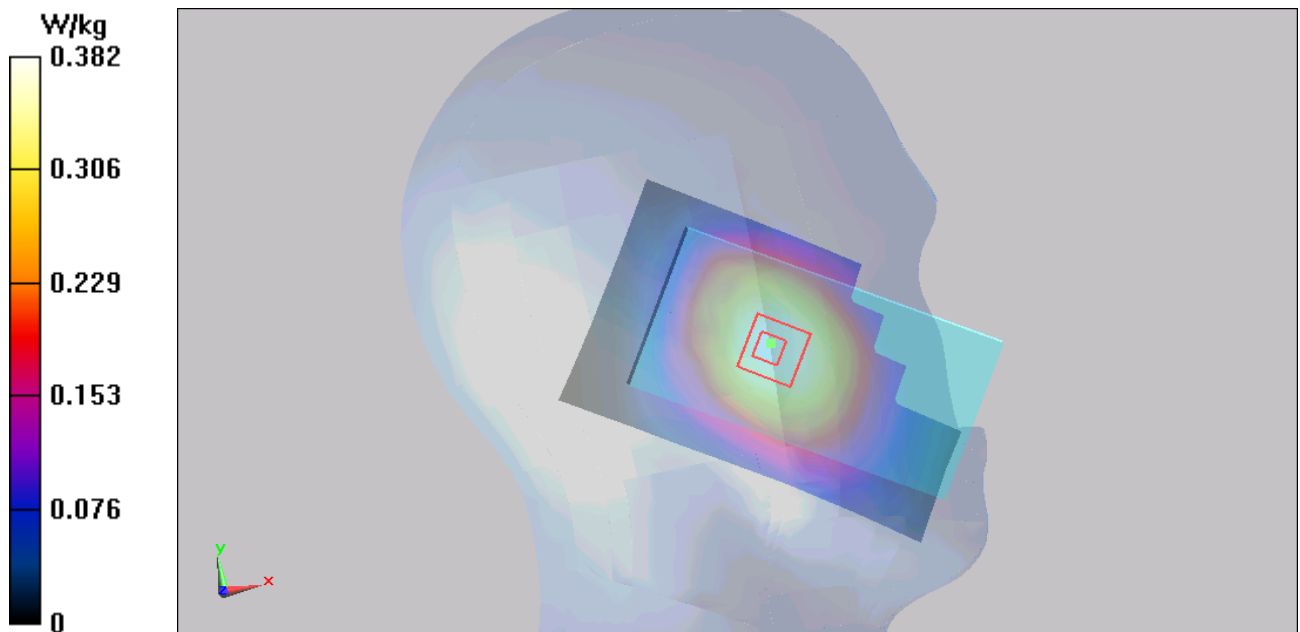


Figure 53 Left Hand Tilt 15° GSM 850 DTM Channel 128

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GSM 850 DTM Right Cheek High

Date/Time: 2/22/2014 1:37:35 PM

Communication System:DTM GPRS 2TX; Frequency: 848.8 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 41.271$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.470 W/kg

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

Reference Value = 6.521 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.342 W/kg

Maximum value of SAR (measured) = 0.478 W/kg

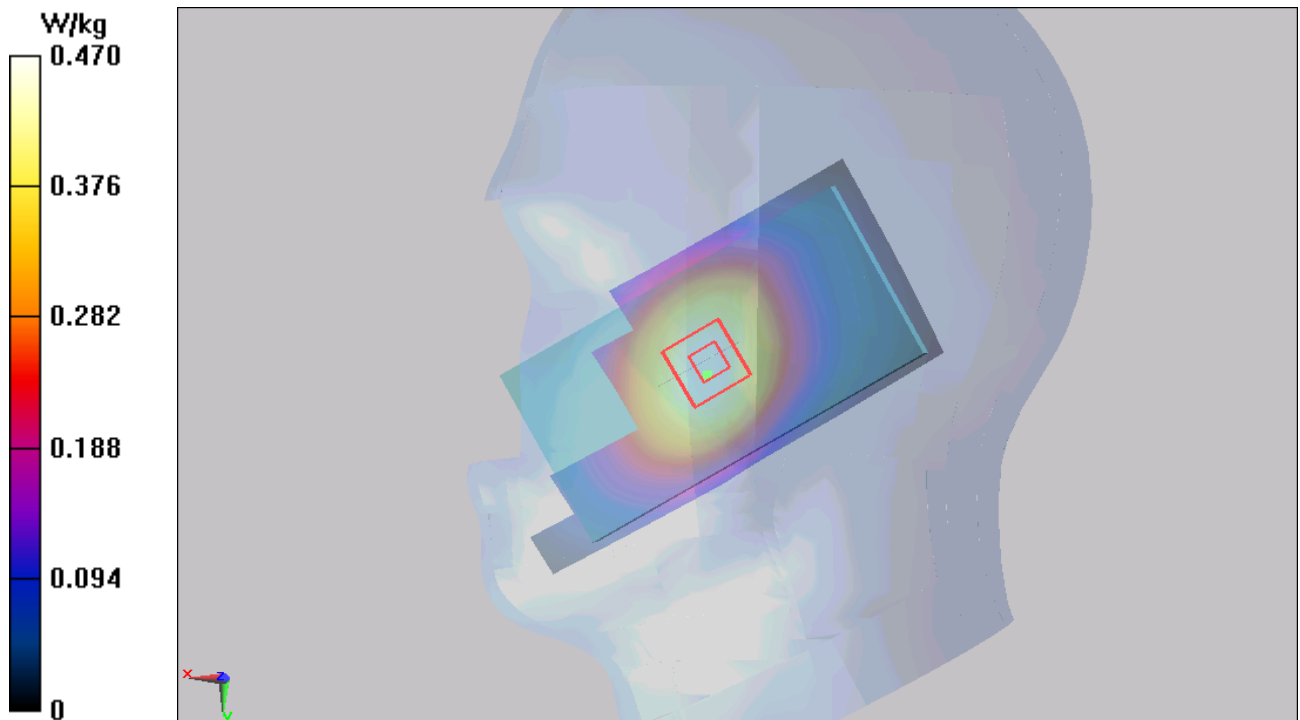


Figure 54 Right Hand Touch Cheek GSM 850 DTM Channel 251

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GSM 850 DTM Right Cheek Middle

Date/Time: 2/22/2014 2:04:59 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.486 W/kg

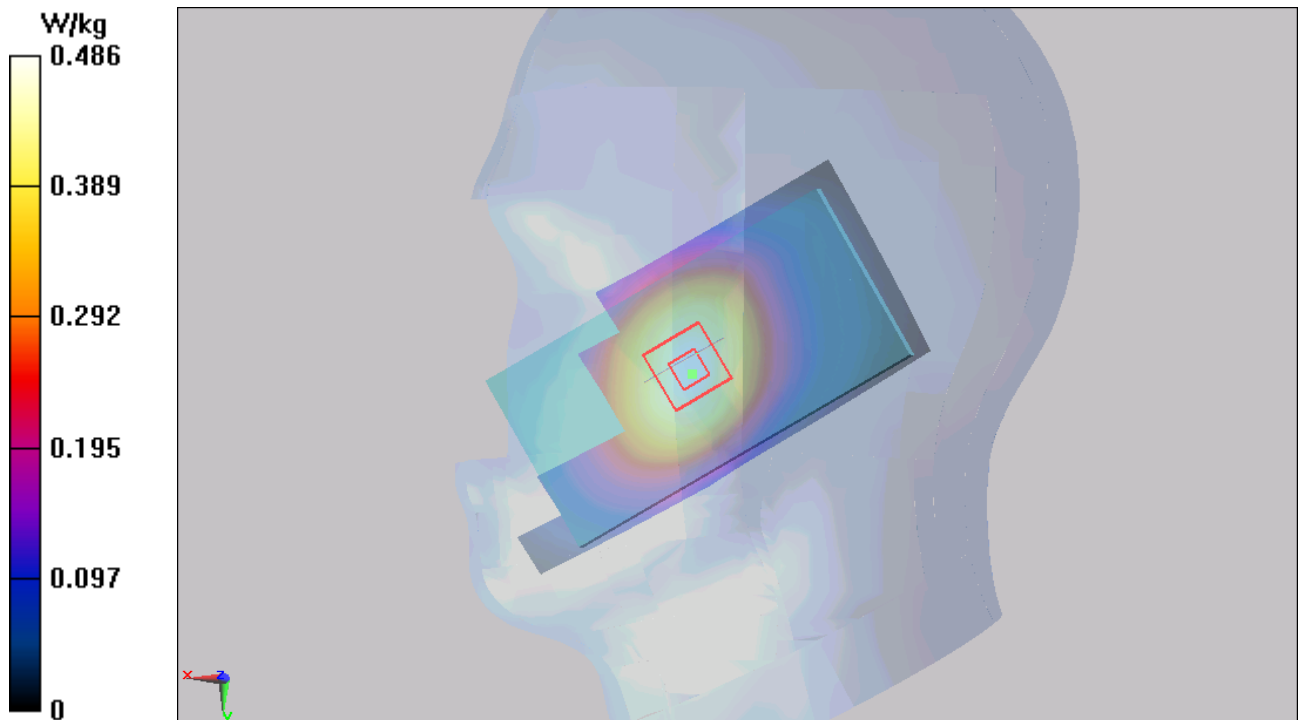
Right Cheek Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.361 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.573 W/kg

SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 0.481 W/kg



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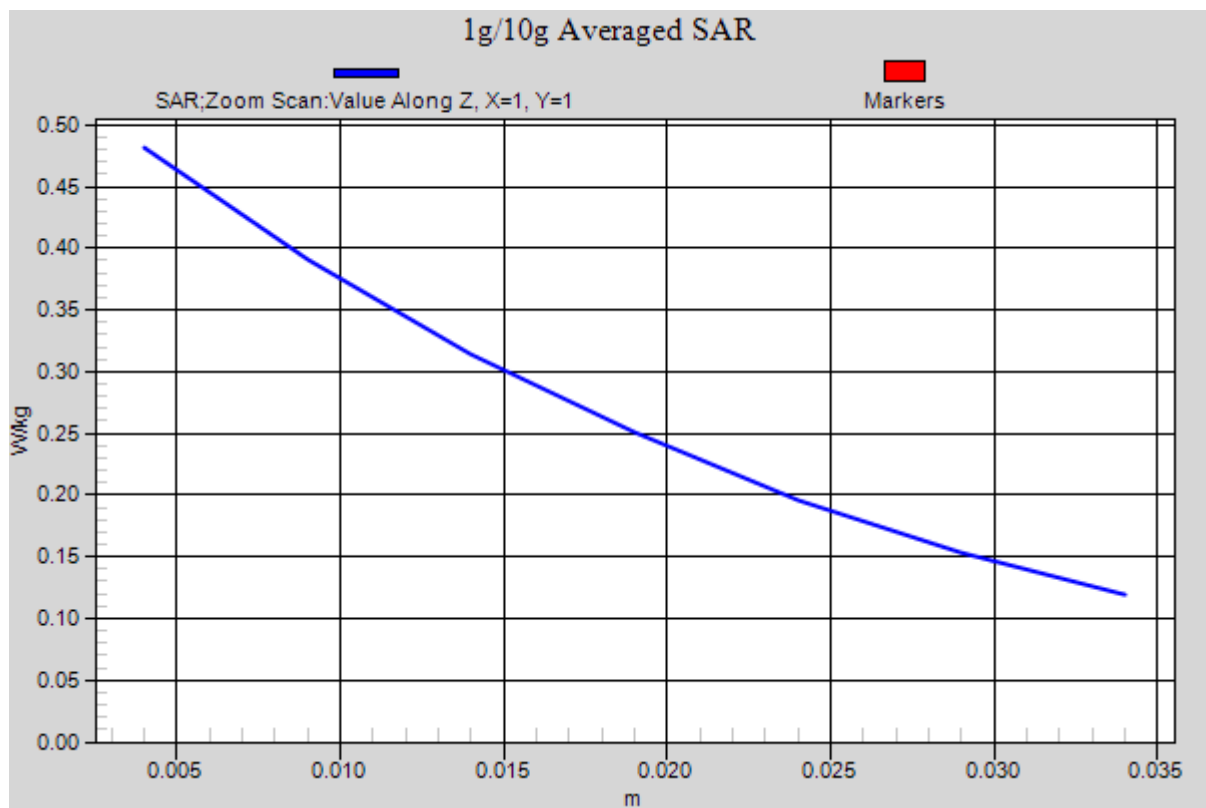


Figure 55 Right Hand Touch Cheek GSM 850 DTM Channel 190

GSM 850 DTM Right Cheek Low

Date/Time: 2/22/2014 1:50:01 PM

Communication System: DTM GPRS 2TX; Frequency: 824.2 MHz; Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.459$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.473 W/kg

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

Reference Value = 6.143 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 0.548 W/kg

SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.340 W/kg

Maximum value of SAR (measured) = 0.464 W/kg

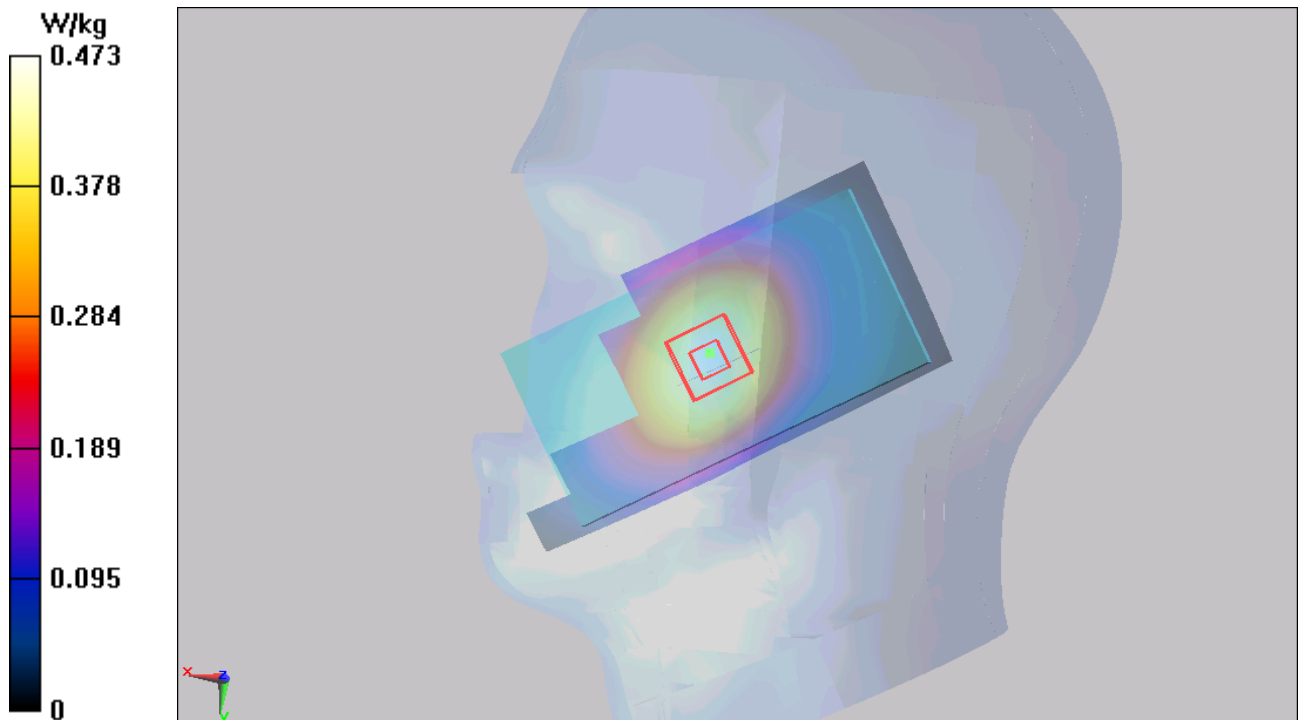


Figure 56 Right Hand Touch Cheek GSM 850 DTM Channel 128

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GSM 850 DTM Right Tilt High

Date/Time: 2/22/2014 3:06:58 PM

Communication System:DTM GPRS 2TX; Frequency: 848.8 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 41.271$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.365 W/kg

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

Reference Value = 11.847 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.438 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.265 W/kg

Maximum value of SAR (measured) = 0.366 W/kg

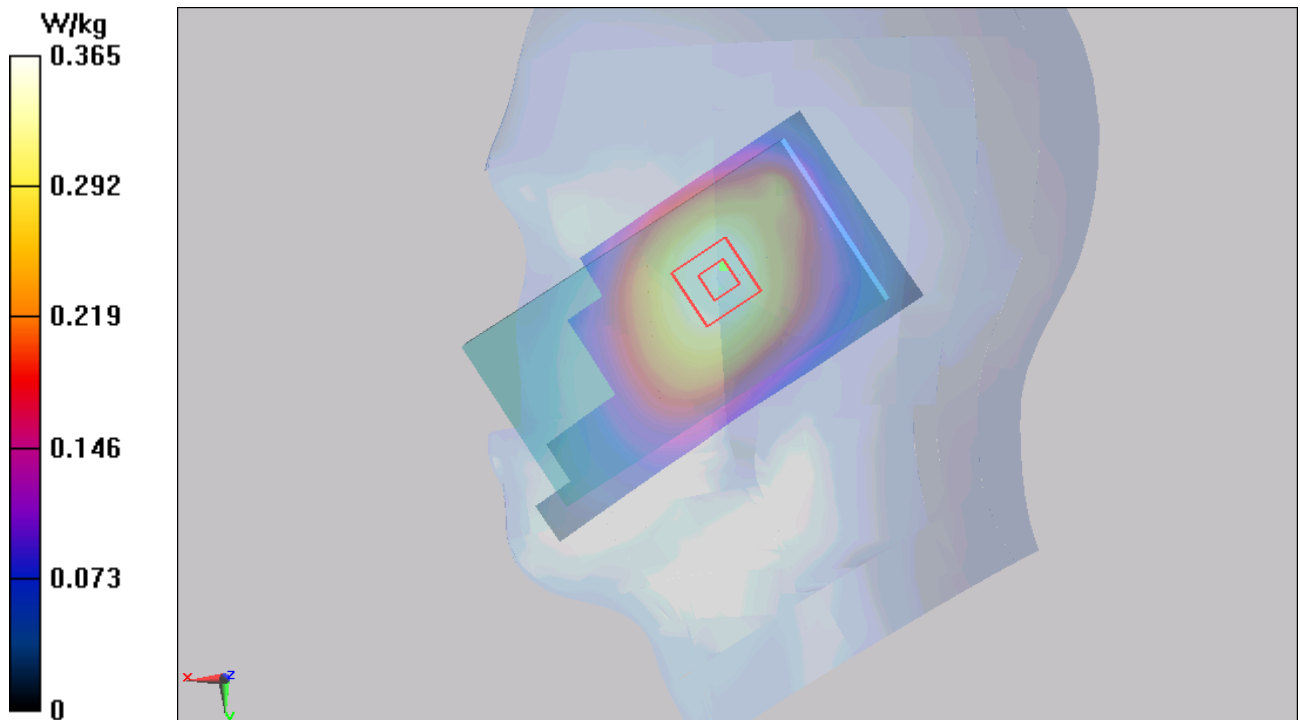


Figure 57 Right Hand Tilt 15° GSM 850 DTM Channel 251

GSM 850 DTM Right Tilt Middle

Date/Time: 2/22/2014 2:42:09 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.396 W/kg

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

Reference Value = 12.426 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.392 W/kg

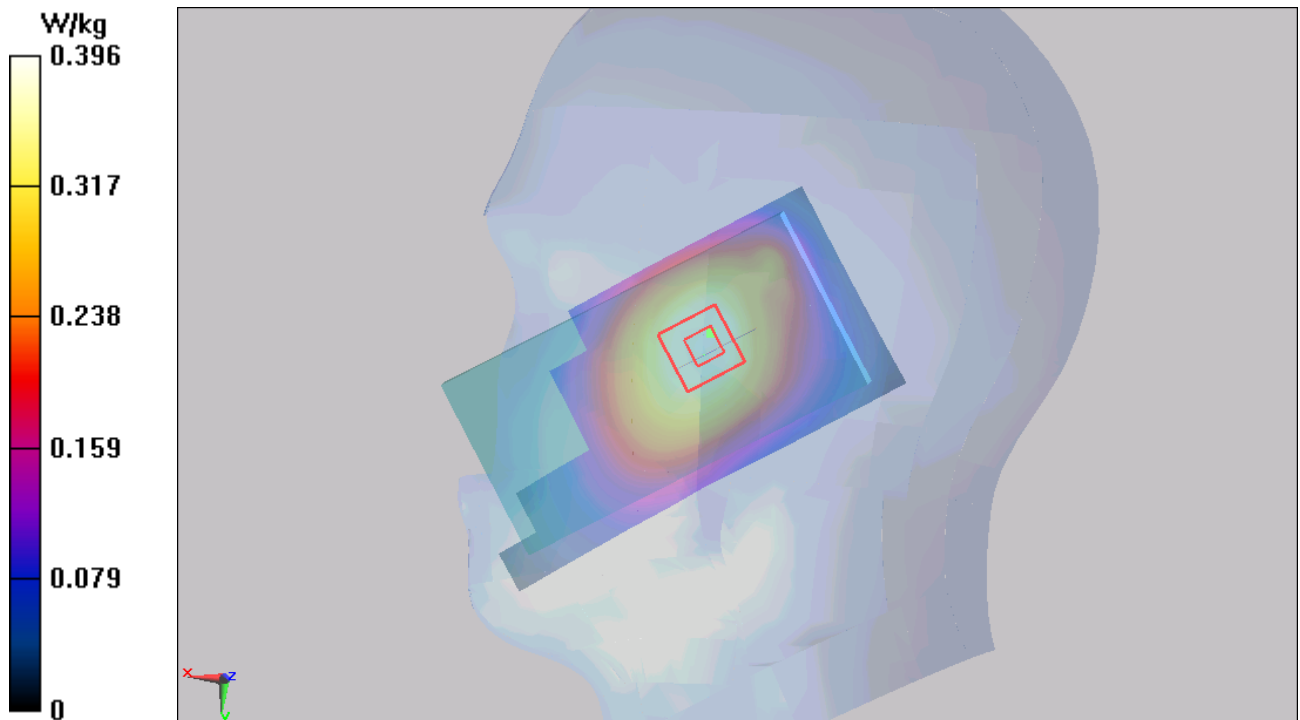


Figure 58 Right Hand Tilt 15° GSM 850 DTM Channel 190

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GSM 850 DTM Right Tilt Low

Date/Time: 2/22/2014 2:54:37 PM

Communication System:DTM GPRS 2TX; Frequency: 824.2 MHz;Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.459$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.385 W/kg

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

Reference Value = 12.365 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.456 W/kg

SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 0.387 W/kg

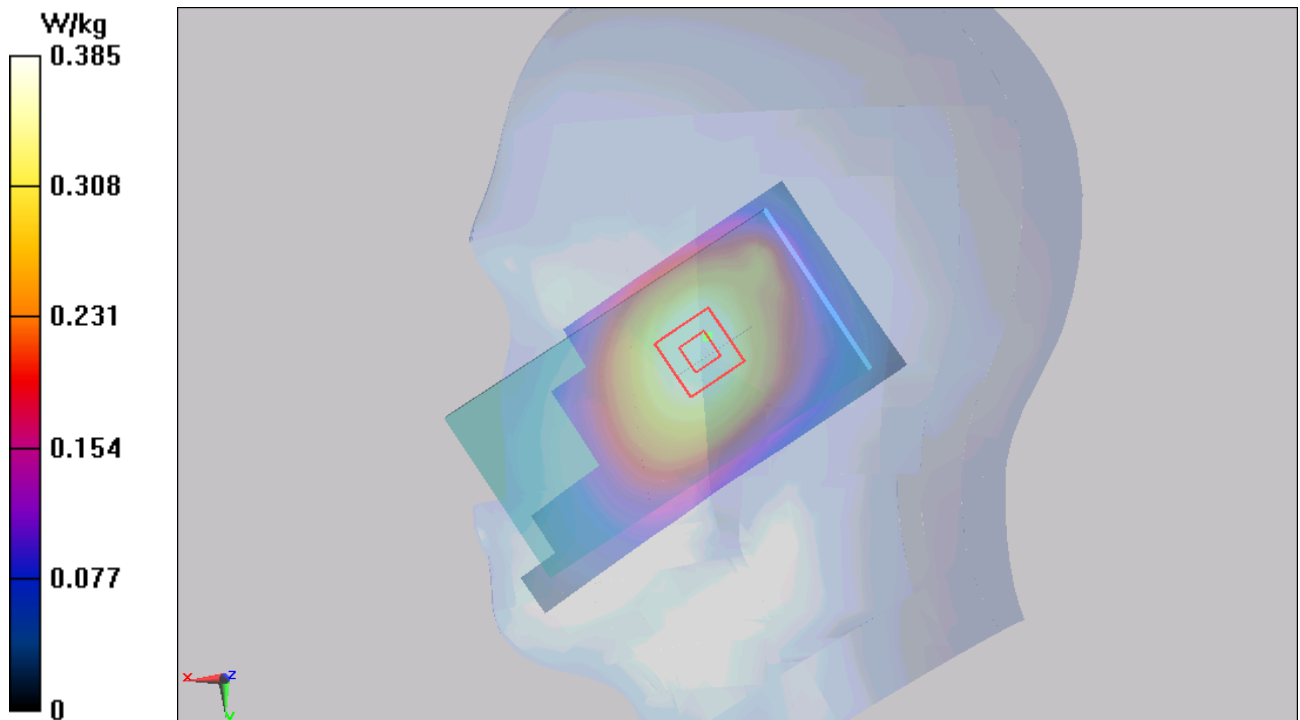


Figure 59 Right Hand Tilt 15° GSM 850 DTM Channel 128

GSM 850 DTM Right Cheek Middle(Battery 2)

Date/Time: 2/22/2014 3:38:39 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.488 W/kg

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

Reference Value = 6.357 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 0.489 W/kg

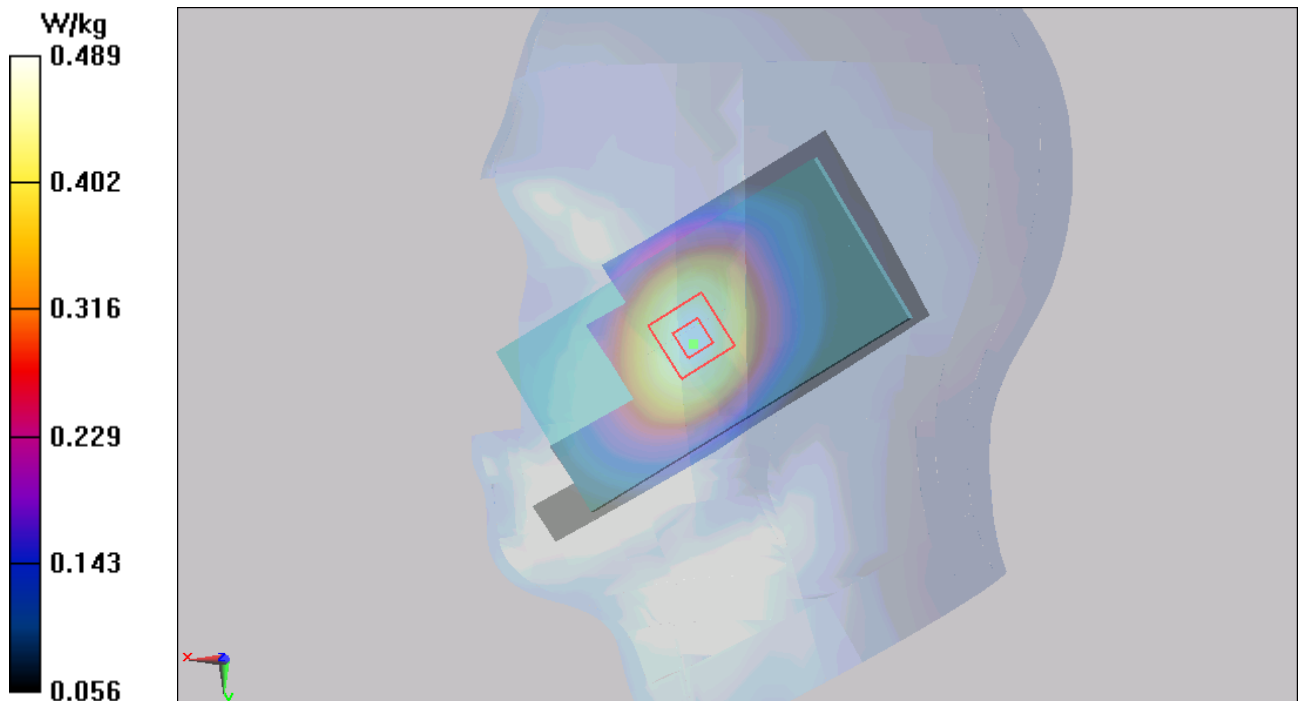


Figure 60 Right Hand Touch Cheek GSM 850 DTM Channel 190

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GSM 850 DTM GPRS (2Txslots) Back Side High

Date/Time: 2/23/2014 9:09:18 PM

Communication System: DTM GPRS 2TX; Frequency: 848.8 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 1.007$ S/m; $\epsilon_r = 54.952$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.935 W/kg

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

Reference Value = 30.438 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.673 W/kg

Maximum value of SAR (measured) = 0.939 W/kg

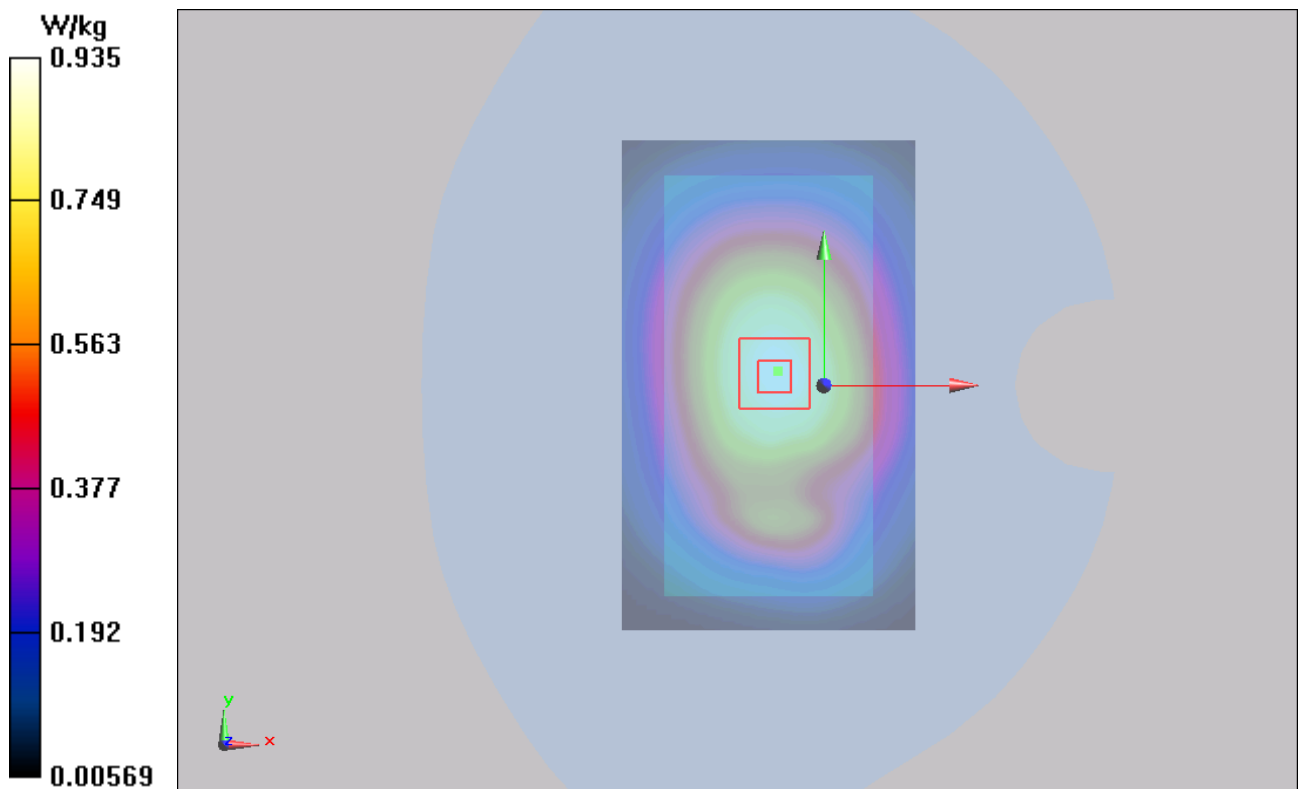


Figure 61 Body, Back Side, GSM 850 DTM GPRS (2Txslots) Channel 251

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GSM 850 DTM GPRS (2Txslots) Back Side Middle

Date/Time: 2/23/2014 8:48:46 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.854 W/kg

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

Reference Value = 29.216 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.983 W/kg

SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.586 W/kg

Maximum value of SAR (measured) = 0.818 W/kg

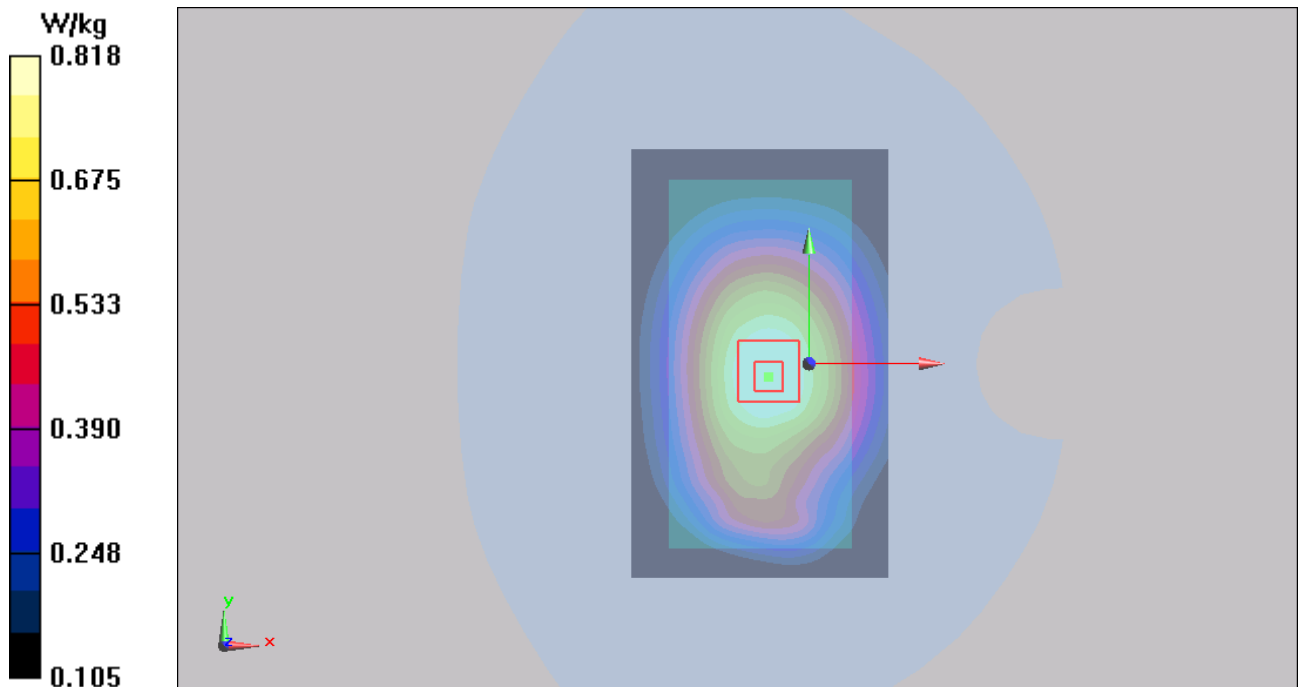


Figure 62 Body, Back Side, GSM 850 DTM GPRS (2Txslots) Channel 190

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GSM 850 DTM GPRS (2Txslots) Back Side Low

Date/Time: 2/23/2014 9:31:46 PM

Communication System:DTM GPRS 2TX; Frequency: 824.2 MHz;Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.982$ S/m; $\epsilon_r = 55.199$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.932 W/kg

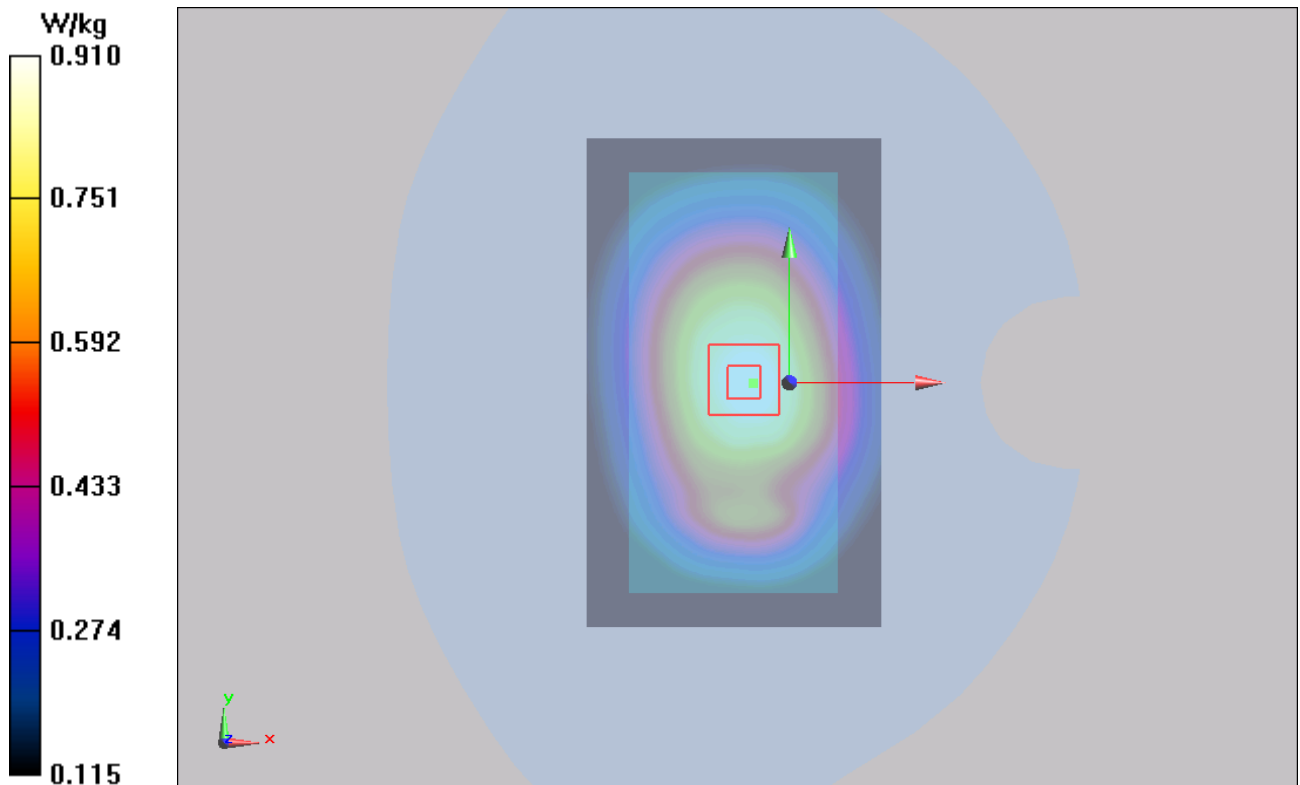
Back Side Low /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.664 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.869 W/kg; SAR(10 g) = 0.658 W/kg

Maximum value of SAR (measured) = 0.910 W/kg



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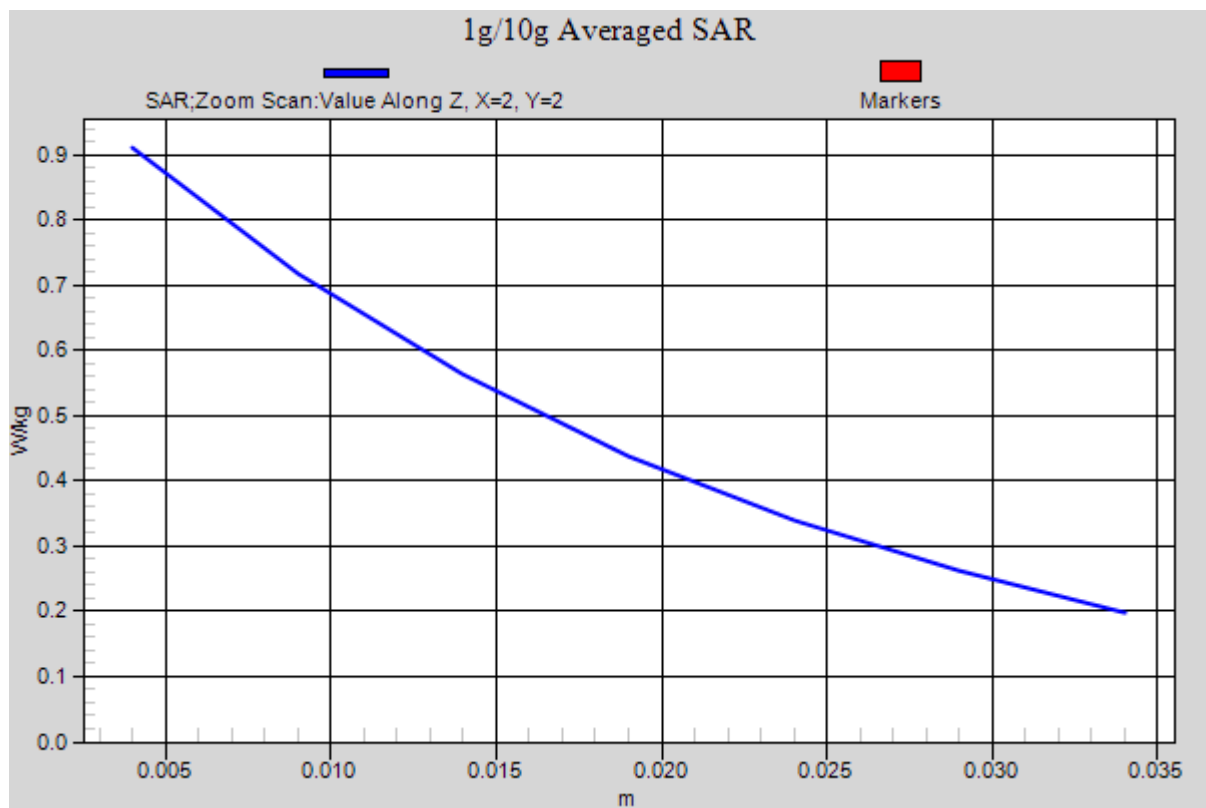


Figure 63 Body, Back Side, GSM 850 DTM GPRS (2Txslots) Channel 128

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GSM 850 DTM GPRS (2Txslots) Front Side Middle

Date/Time: 2/23/2014 9:49:52 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.537 W/kg

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

Reference Value = 23.329 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.636 W/kg

SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.383 W/kg

Maximum value of SAR (measured) = 0.522 W/kg

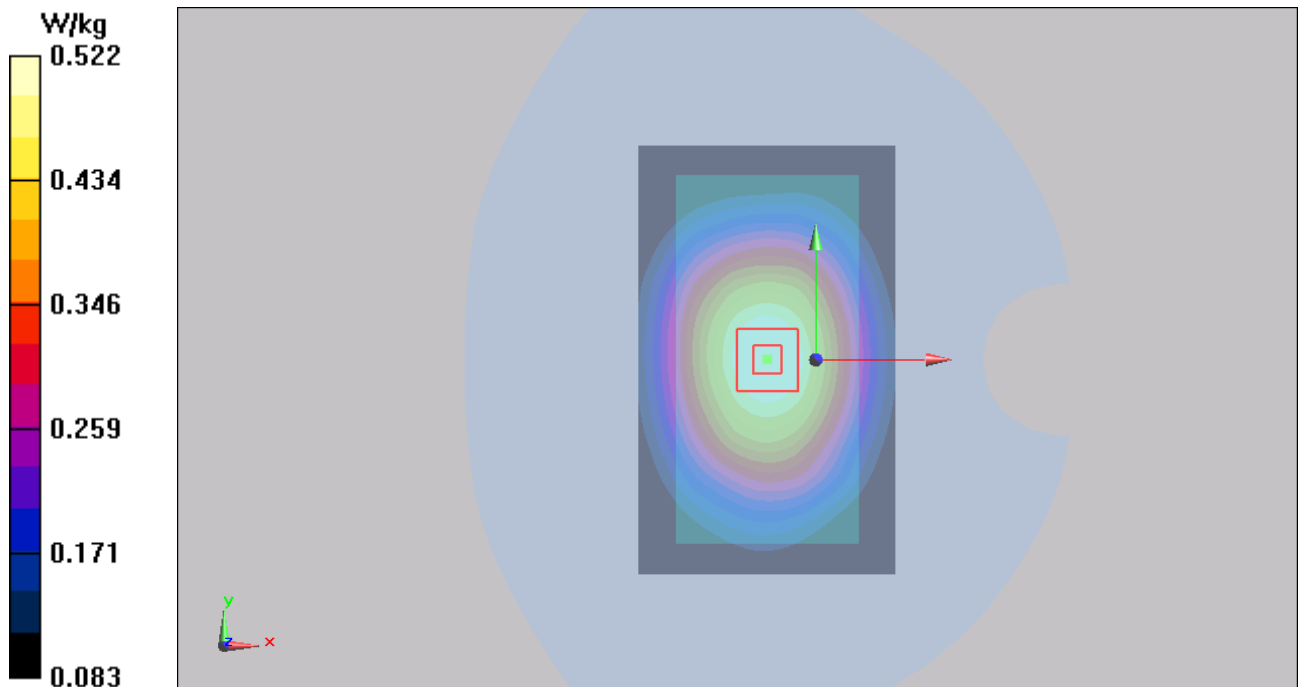


Figure 64 Body, Front Side, GSM 850 DTM GPRS (2Txslots) Channel 190

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GSM 850 DTM GPRS (2Txslots) Left Edge Middle

Date/Time: 2/23/2014 10:07:26 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Edge Middle /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.368 W/kg

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

Reference Value = 19.073 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.480 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.236 W/kg

Maximum value of SAR (measured) = 0.353 W/kg

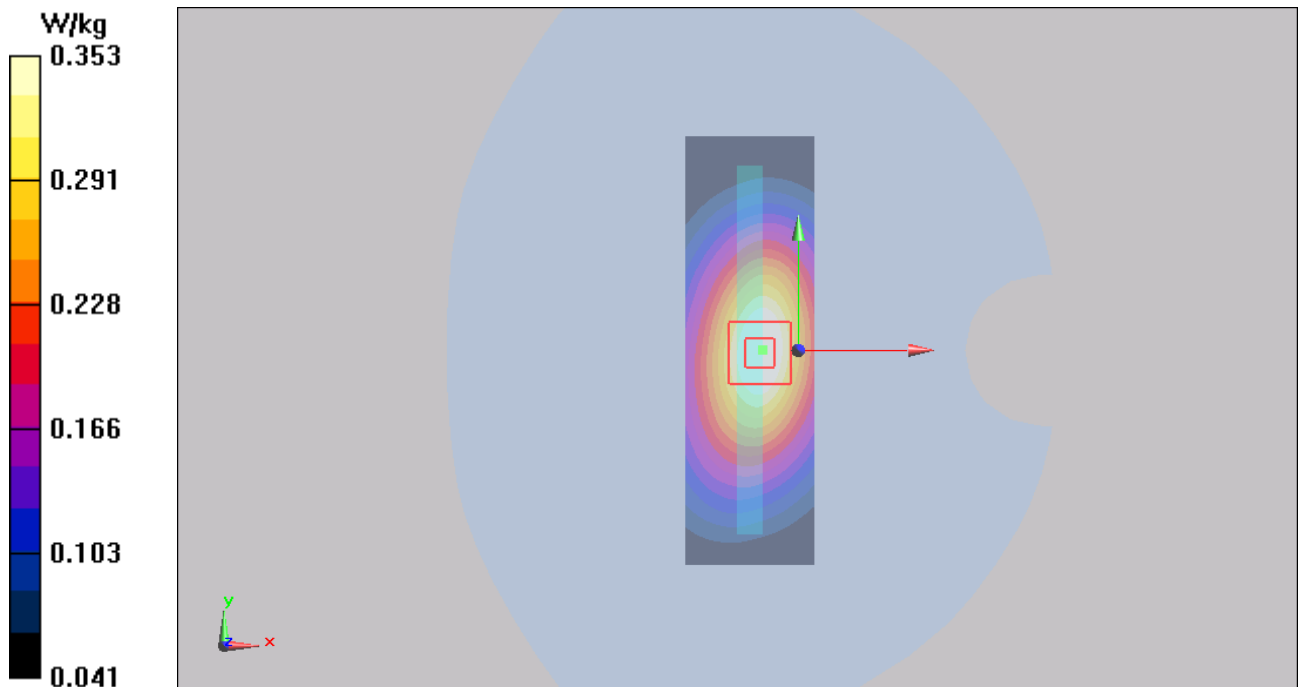


Figure 65 Body, Left Edge, GSM 850 DTM GPRS (2Txslots) Channel 190

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GSM 850 DTM GPRS (2Txslots) Right Edge Middle

Date/Time: 2/23/2014 7:39:03 PM

Communication System: DTM GPRS 2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Edge Middle /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.540 W/kg

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

Reference Value = 23.042 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.704 W/kg

SAR(1 g) = 0.504 W/kg; SAR(10 g) = 0.349 W/kg

Maximum value of SAR (measured) = 0.521 W/kg

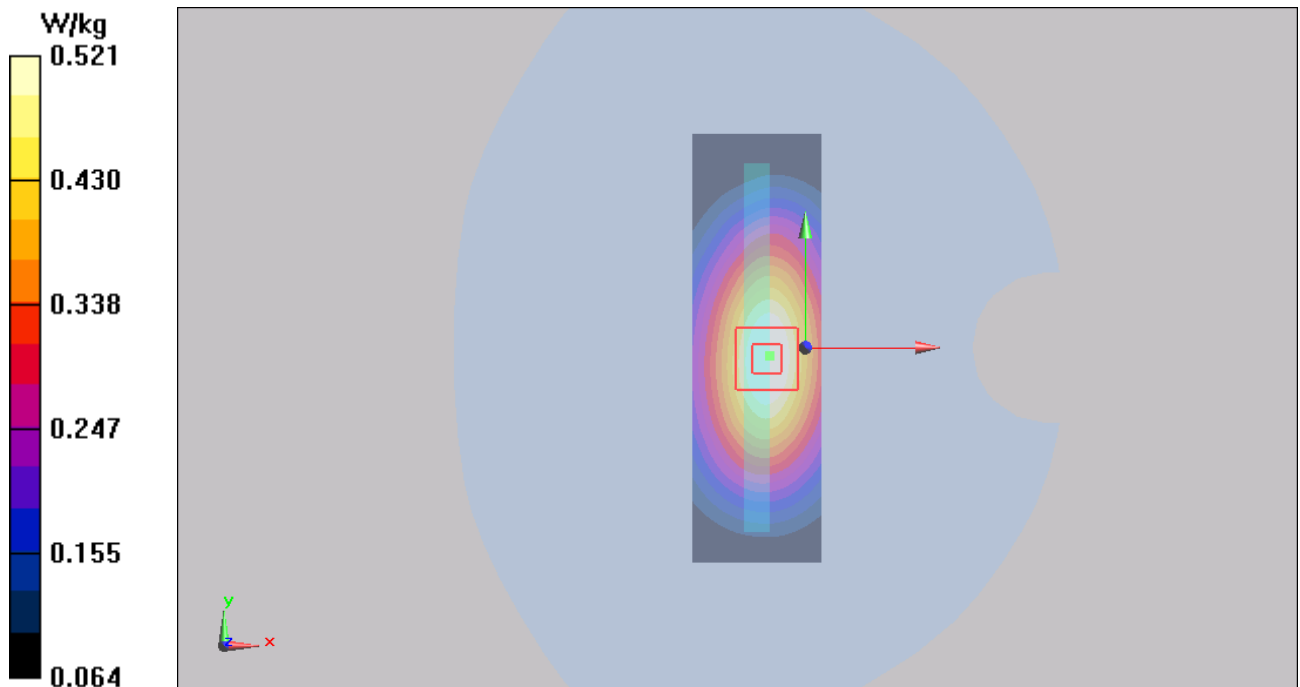


Figure 66 Body, Right Edge, GSM 850 DTM GPRS (2Txslots) Channel 190

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GSM 850 DTM GPRS (2Txslots) Bottom Edge Middle

Date/Time: 2/23/2014 7:56:28 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Bottom Edge Middle /Area Scan (31x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.184 W/kg

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

Reference Value = 12.818 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.270 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.097 W/kg

Maximum value of SAR (measured) = 0.169 W/kg

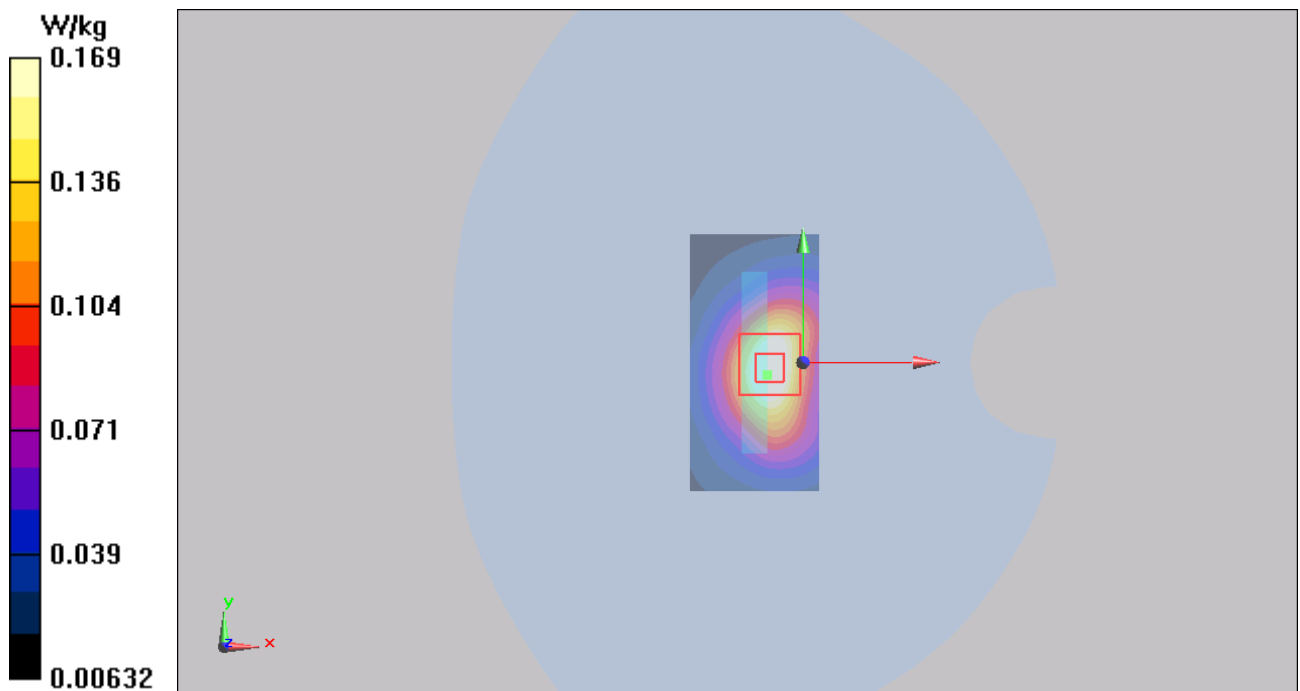


Figure 67 Body, Bottom Edge, GSM 850 DTM GPRS (2Txslots) Channel 190

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GSM 850 DTM GPRS (2Txslots) Back Side Low(Battery 2)

Date/Time: 2/23/2014 8:07:38 PM

Communication System:DTM GPRS 2TX; Frequency: 836.6 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 55.073$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.903 W/kg

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

Reference Value = 30.190 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.650 W/kg

Maximum value of SAR (measured) = 0.903 W/kg

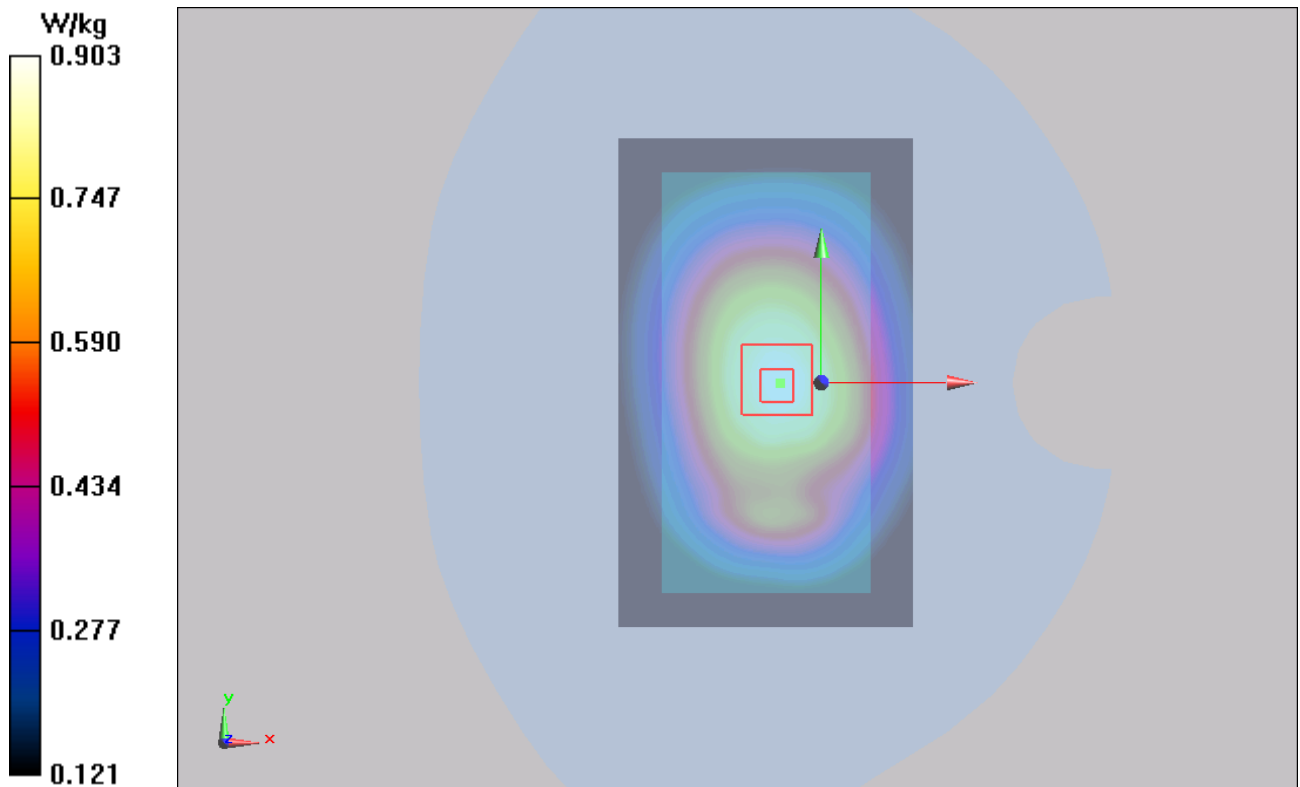


Figure 68 Body, Back Side, GSM 850 DTM GPRS (2Txslots) Channel 128

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GSM 850 DTM GPRS (2Txslots) Back Side Low(Earphone 1)

Date/Time: 2/23/2014 10:25:26 PM

Communication System:DTM GPRS 2TX; Frequency: 824.2 MHz;Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.982$ S/m; $\epsilon_r = 55.199$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.556 W/kg

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

Reference Value = 22.232 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.666 W/kg

SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.391 W/kg

Maximum value of SAR (measured) = 0.537 W/kg

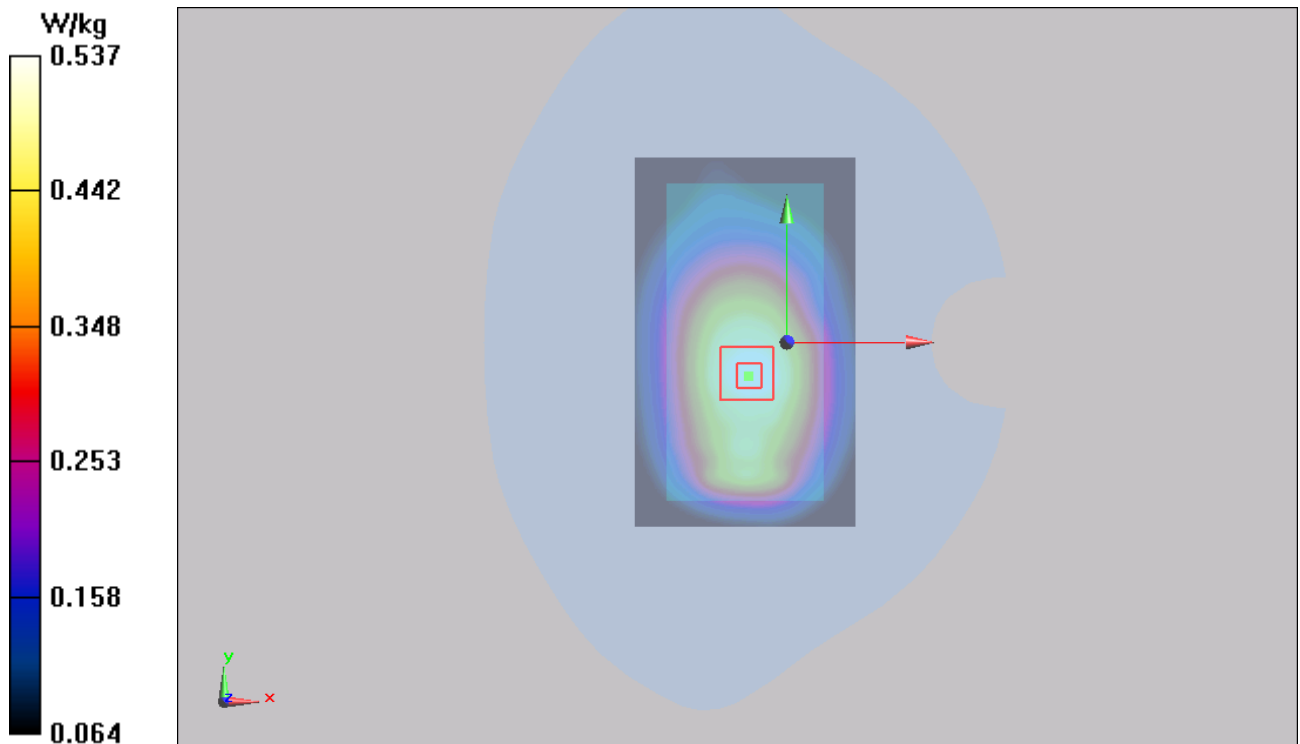


Figure 69 Body, Back Side, GSM 850 DTM GPRS (2Txslots) Channel 128

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GSM 850 DTM GPRS (2Txslots) Back Side Low(Earphone 2)

Date/Time: 2/23/2014 10:46:26 PM

Communication System:DTM GPRS 2TX; Frequency: 824.2 MHz;Duty Cycle: 1:4.14954

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.982$ S/m; $\epsilon_r = 55.199$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.617 W/kg

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

Reference Value = 24.790 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.439 W/kg

Maximum value of SAR (measured) = 0.604 W/kg

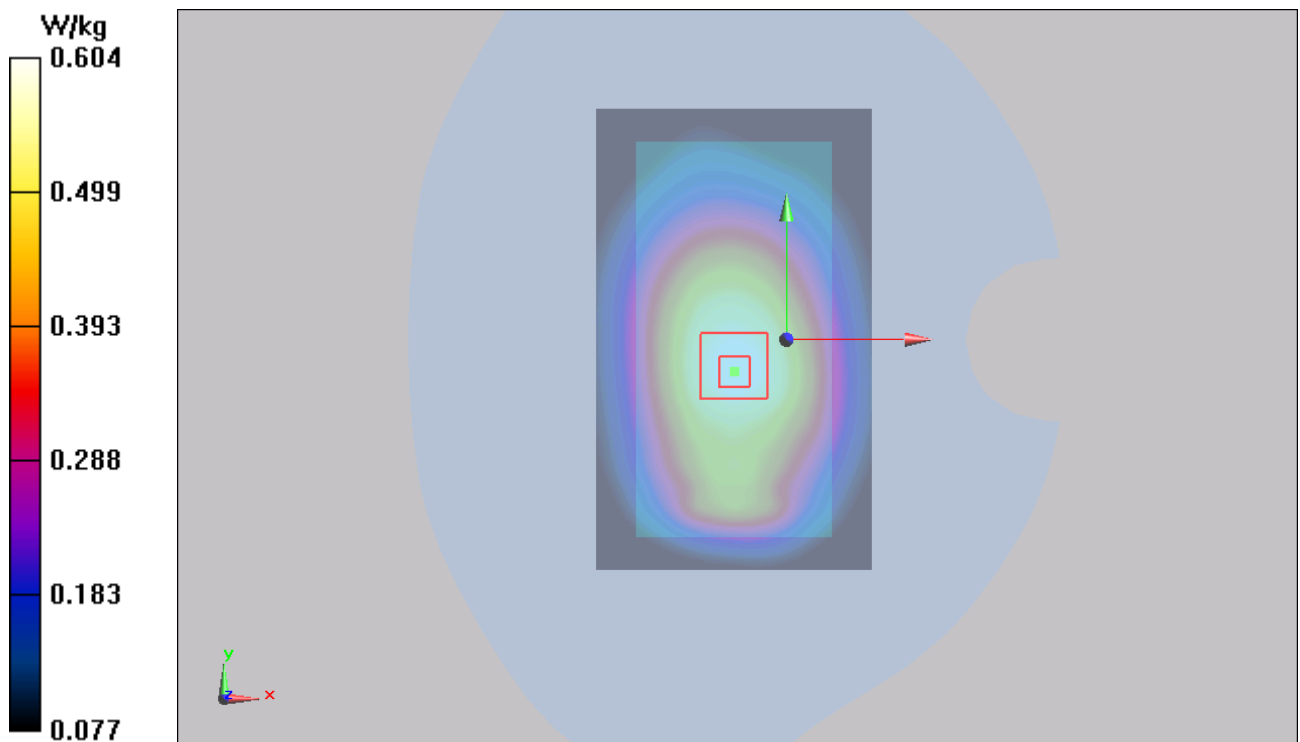


Figure 70 Body, Back Side, GSM 850 DTM GPRS (2Txslots) Channel 128

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GSM 850 DTM GPRS (2Txslots) Back Side High(1st Repeated SAR)

Date/Time: 2/23/2014 8:29:43 PM

Communication System:DTM GPRS 2TX; Frequency: 848.8 MHz;Duty Cycle: 1:4.14954

Medium parameters used: $f = 849$ MHz; $\sigma = 1.007$ S/m; $\epsilon_r = 54.952$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.51, 9.51, 9.51); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.897 W/kg

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

Reference Value = 29.845 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.650 W/kg

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

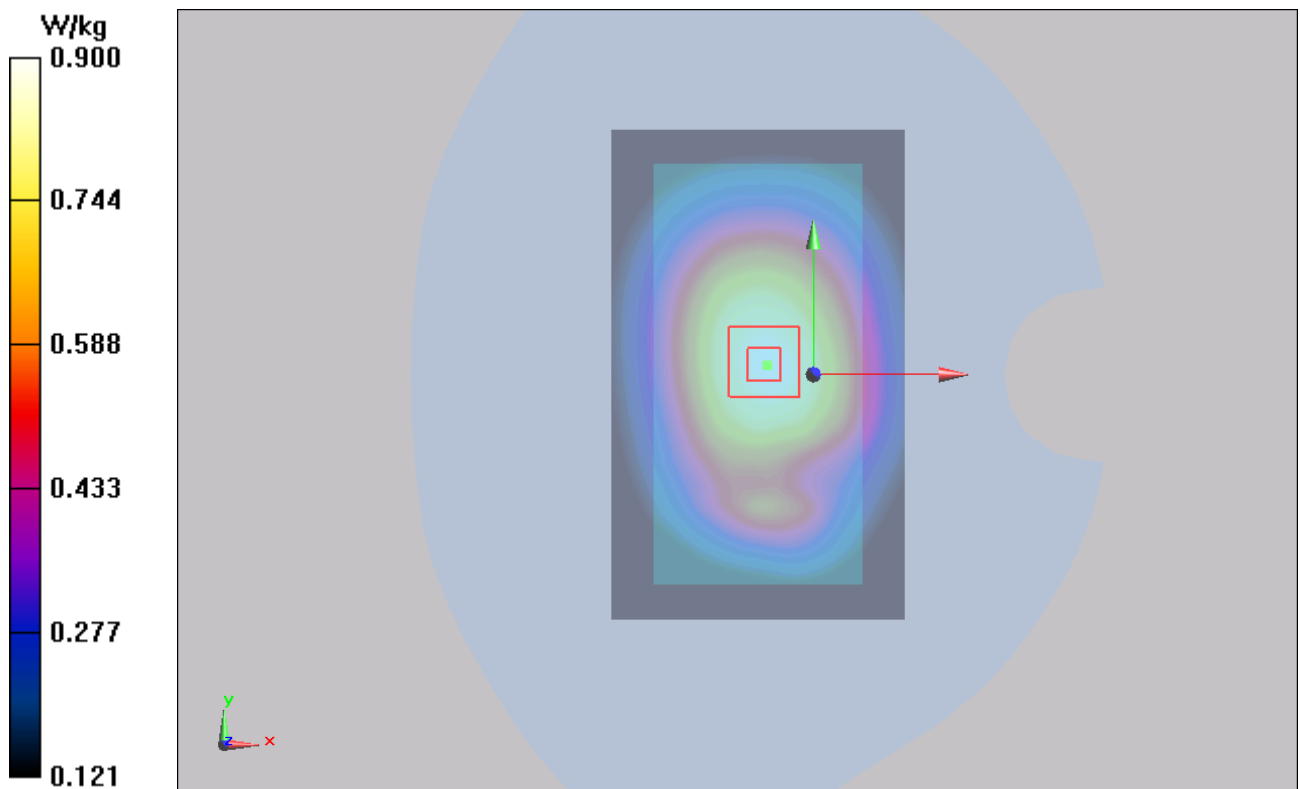


Figure 71 Body, Back Side, GSM 850 DTM GPRS (2Txslots) Channel 251

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GSM 1900 Left Cheek High

Date/Time: 2/22/2014 4:49:34 AM

Communication System: GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.607$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.251 W/kg

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

Reference Value = 5.426 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.365 mW/g

SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.245 W/kg

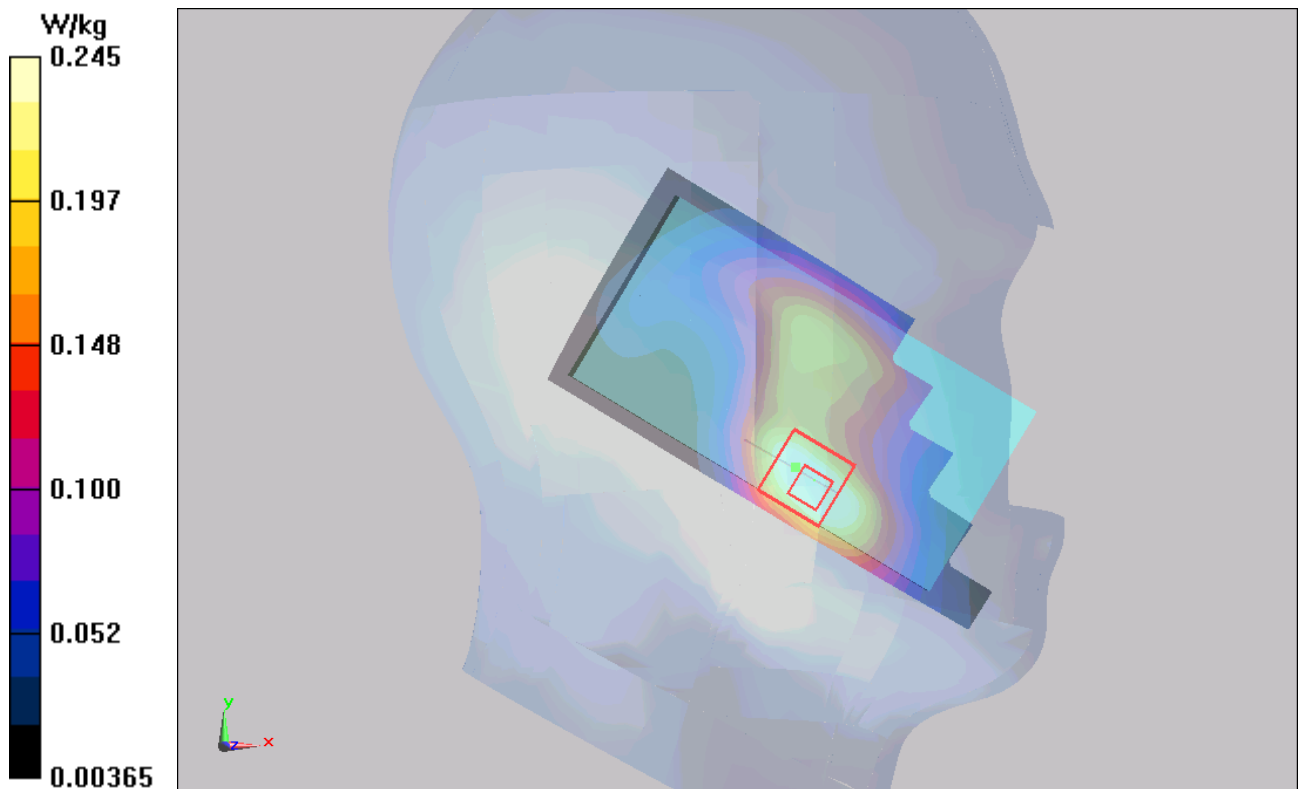


Figure 72 Left Hand Touch Cheek GSM 1900 Channel 810

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GSM 1900 Left Cheek Middle

Date/Time: 2/22/2014 4:33:14 AM

Communication System: GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.297 W/kg

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

Reference Value = 5.783 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.424 mW/g

SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.168 mW/g

Maximum value of SAR (measured) = 0.293 W/kg

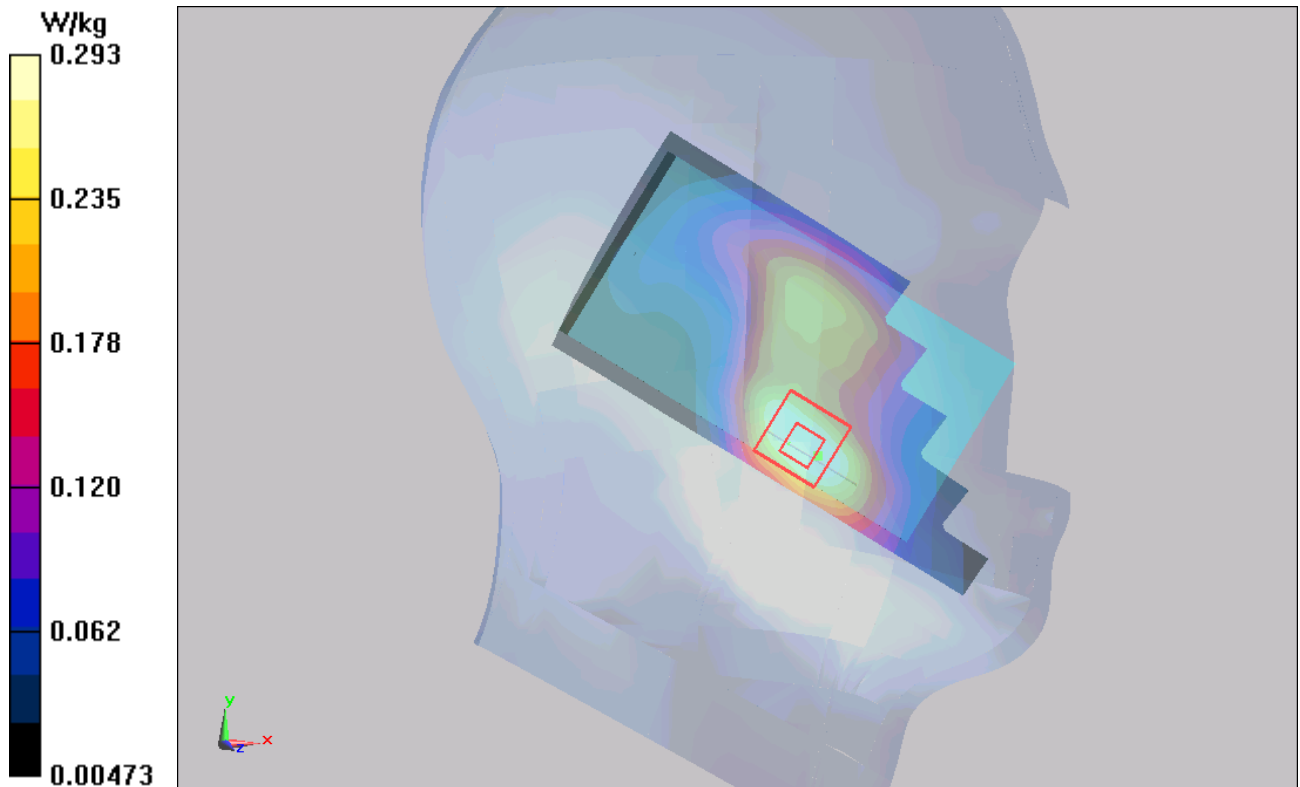


Figure 73 Left Hand Touch Cheek GSM 1900 Channel 661

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GSM 1900 Left Cheek Low

Date/Time: 2/22/2014 5:06:26 AM

Communication System: GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ mho/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.315 W/kg

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

Reference Value = 5.866 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.437 mW/g

SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.307 W/kg

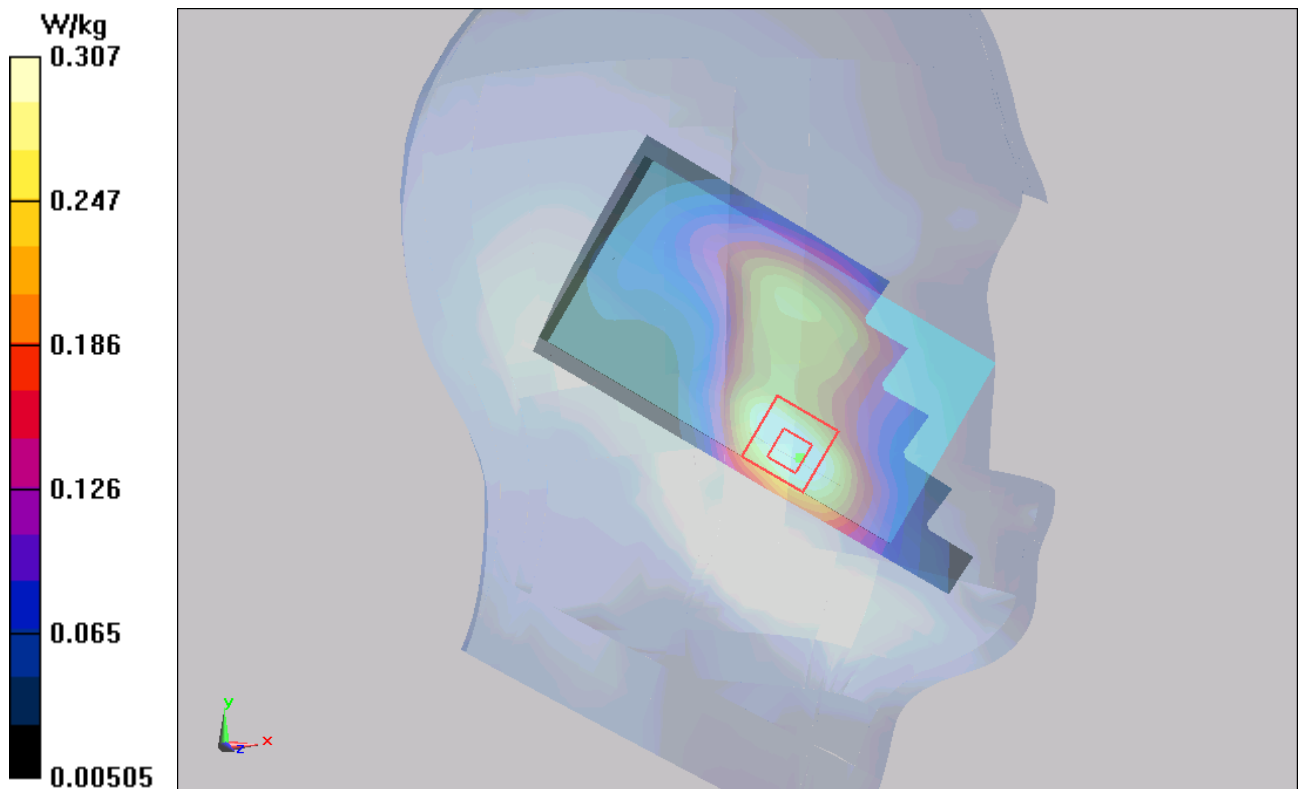


Figure 74 Left Hand Touch Cheek GSM 1900 Channel 512

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GSM 1900 Left Tilt High

Date/Time: 2/22/2014 5:54:39 AM

Communication System: GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.607$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 8.377 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.177 mW/g

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.068 mW/g

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

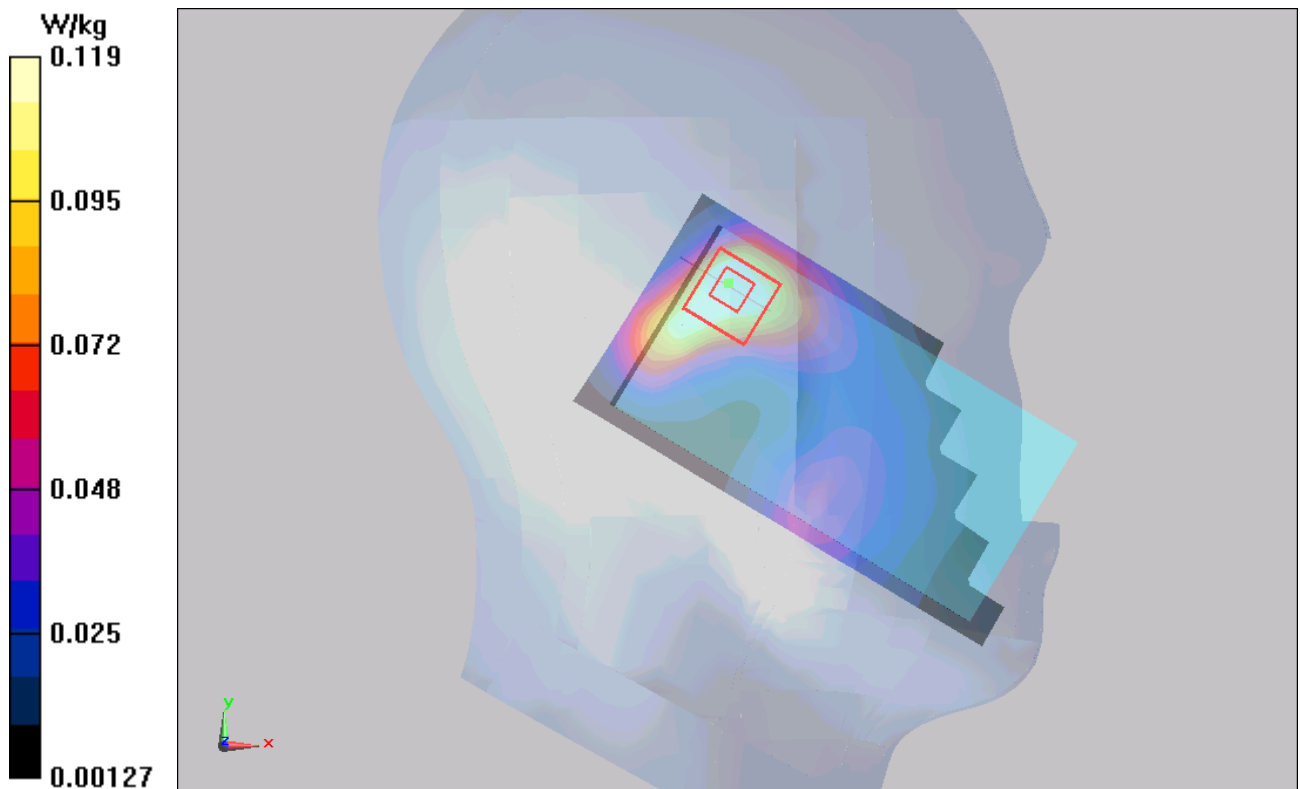


Figure 75 Left Hand Tilt 15° GSM 1900 Channel 810

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GSM 1900 Left Tilt Middle

Date/Time: 2/22/2014 5:38:56 AM

Communication System: GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.185 W/kg

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

Reference Value = 9.525 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.221 mW/g

SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.087 mW/g

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

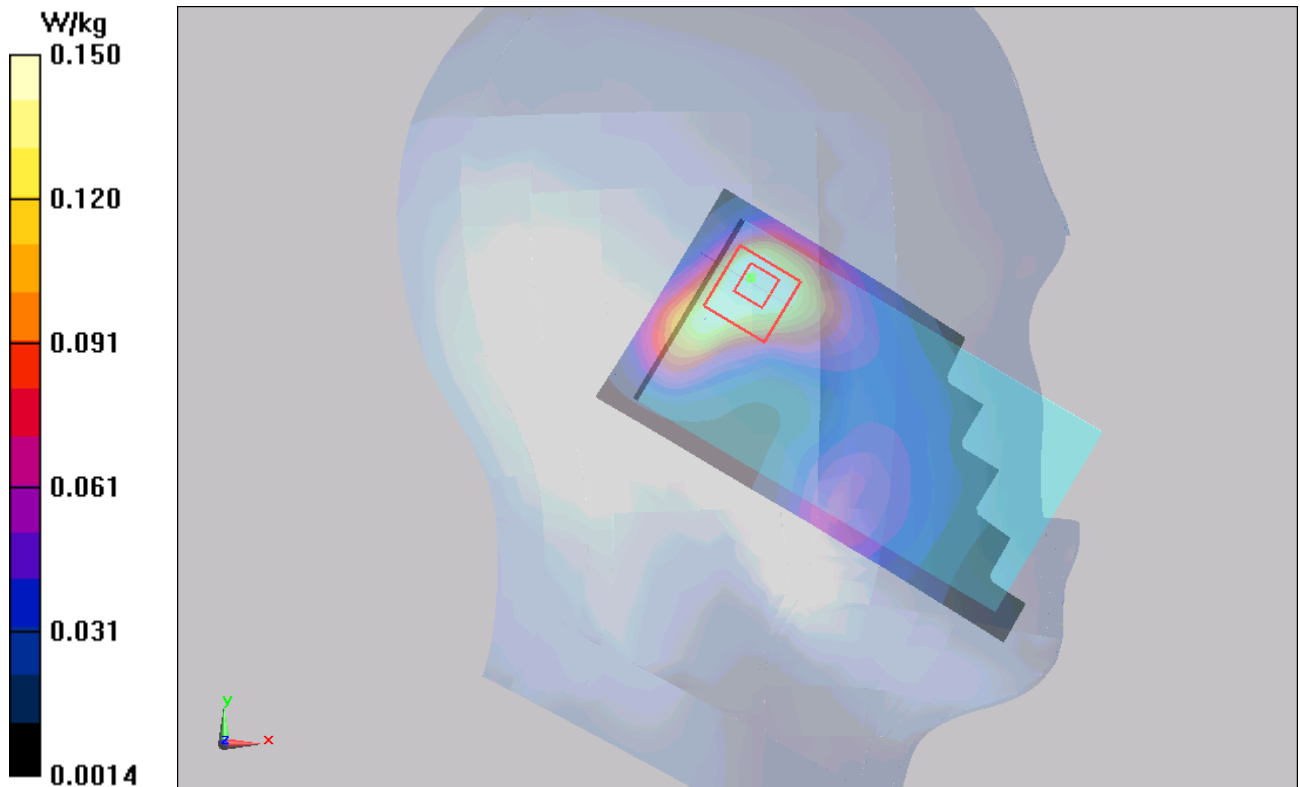


Figure 76 Left Hand Tilt 15° GSM 1900 Channel 661

GSM 1900 Left Tilt Low

Date/Time: 2/22/2014 5:23:16 AM

Communication System: GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ mho/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 9.979 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.229 mW/g

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.158 W/kg

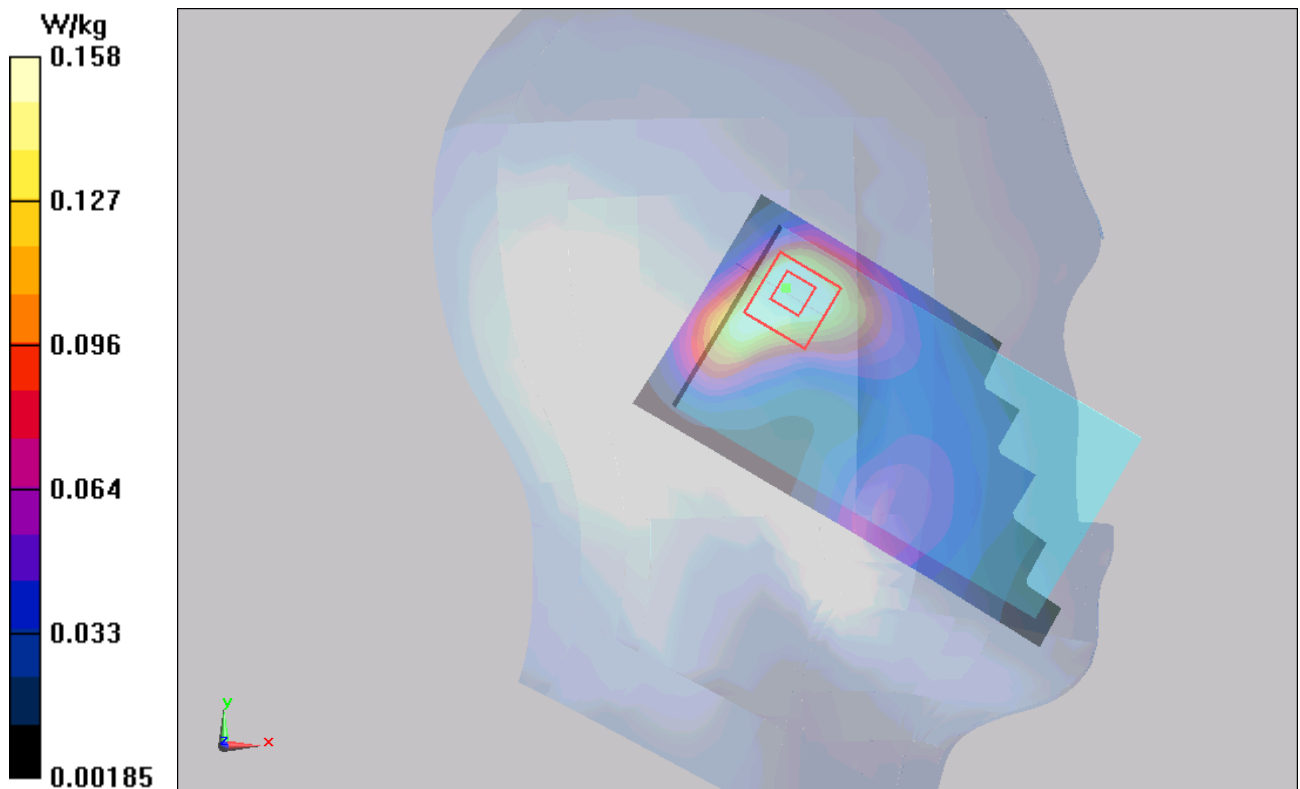


Figure 77 Left Hand Tilt 15° GSM 1900 Channel 512

GSM 1900 Right Cheek High

Date/Time: 2/22/2014 3:07:51 AM

Communication System: GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.607$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.359 W/kg

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

Reference Value = 6.151 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.511 mW/g

SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.357 W/kg

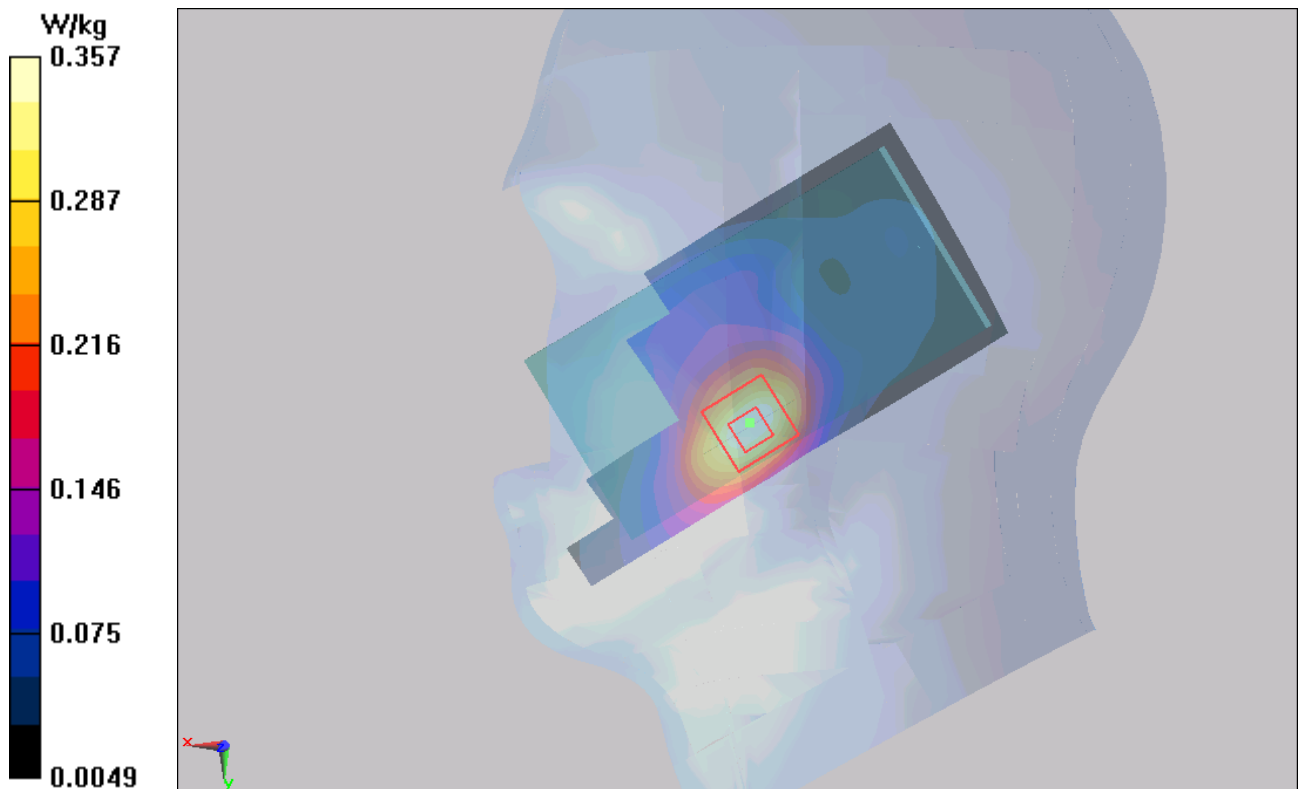


Figure 78 Right Hand Touch Cheek GSM 1900 Channel 810

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GSM 1900 Right Cheek Middle

Date/Time: 2/22/2014 2:51:37 AM

Communication System: GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.459 W/kg

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

Reference Value = 6.662 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.635 mW/g

SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.249 mW/g

Maximum value of SAR (measured) = 0.452 W/kg

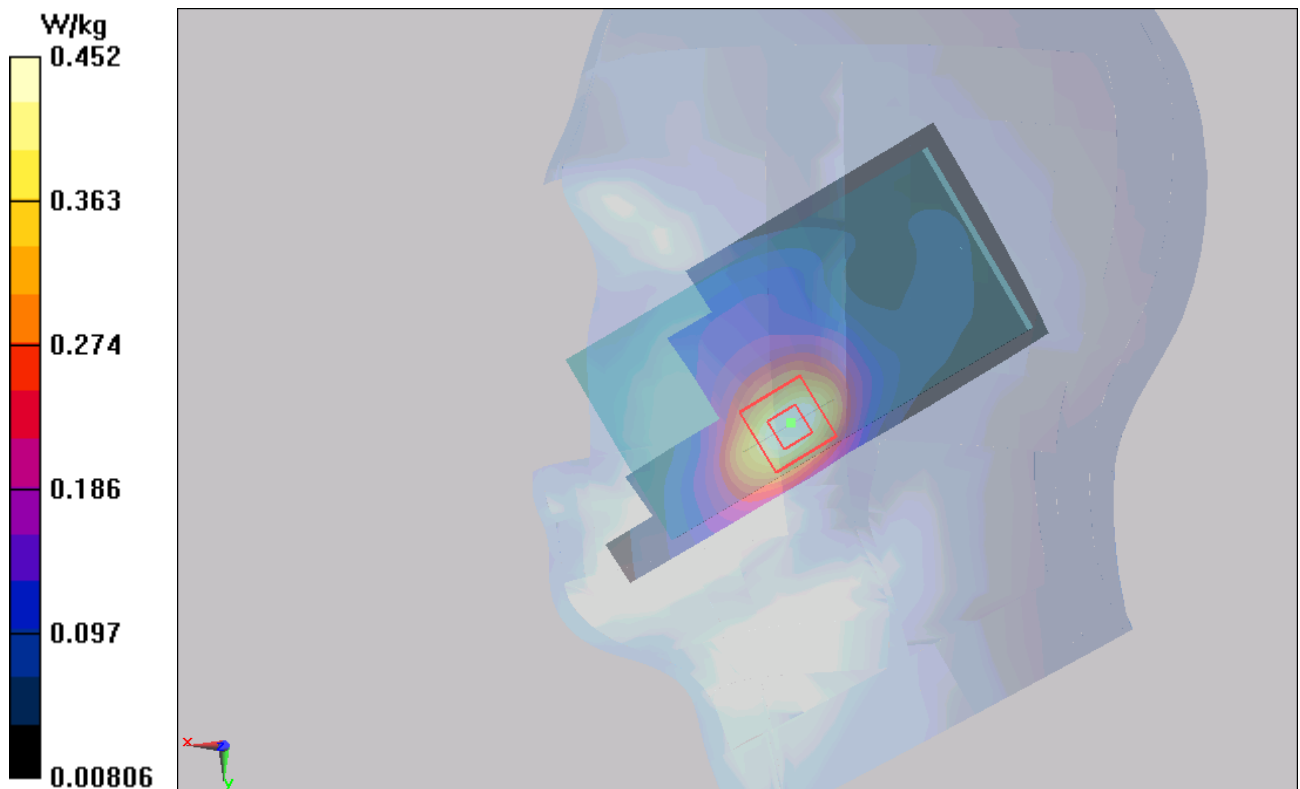


Figure 79 Right Hand Touch Cheek GSM 1900 Channel 661

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GSM 1900 Right Cheek Low

Date/Time: 2/22/2014 3:22:53 AM

Communication System: GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ mho/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.495 W/kg

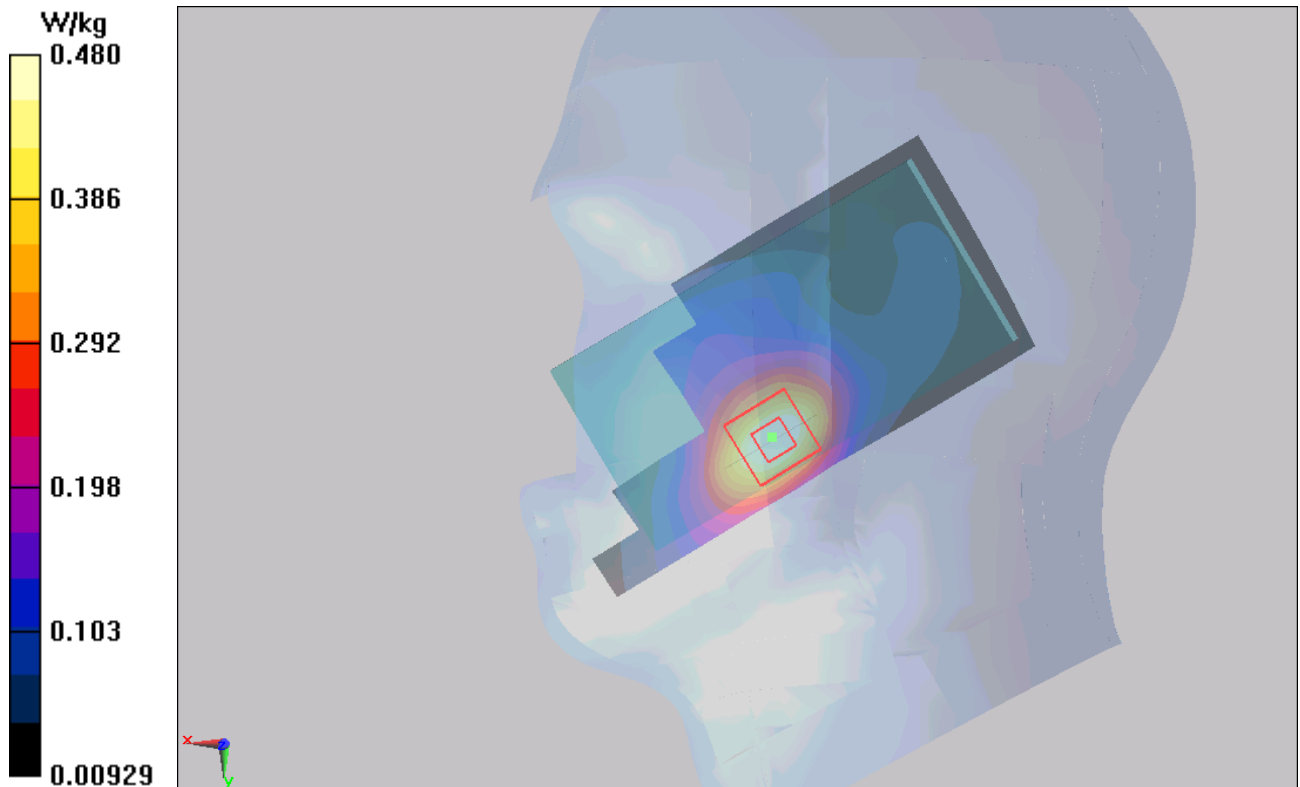
Right Cheek Low /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.886 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.688 mW/g

SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.269 mW/g

Maximum value of SAR (measured) = 0.480 W/kg



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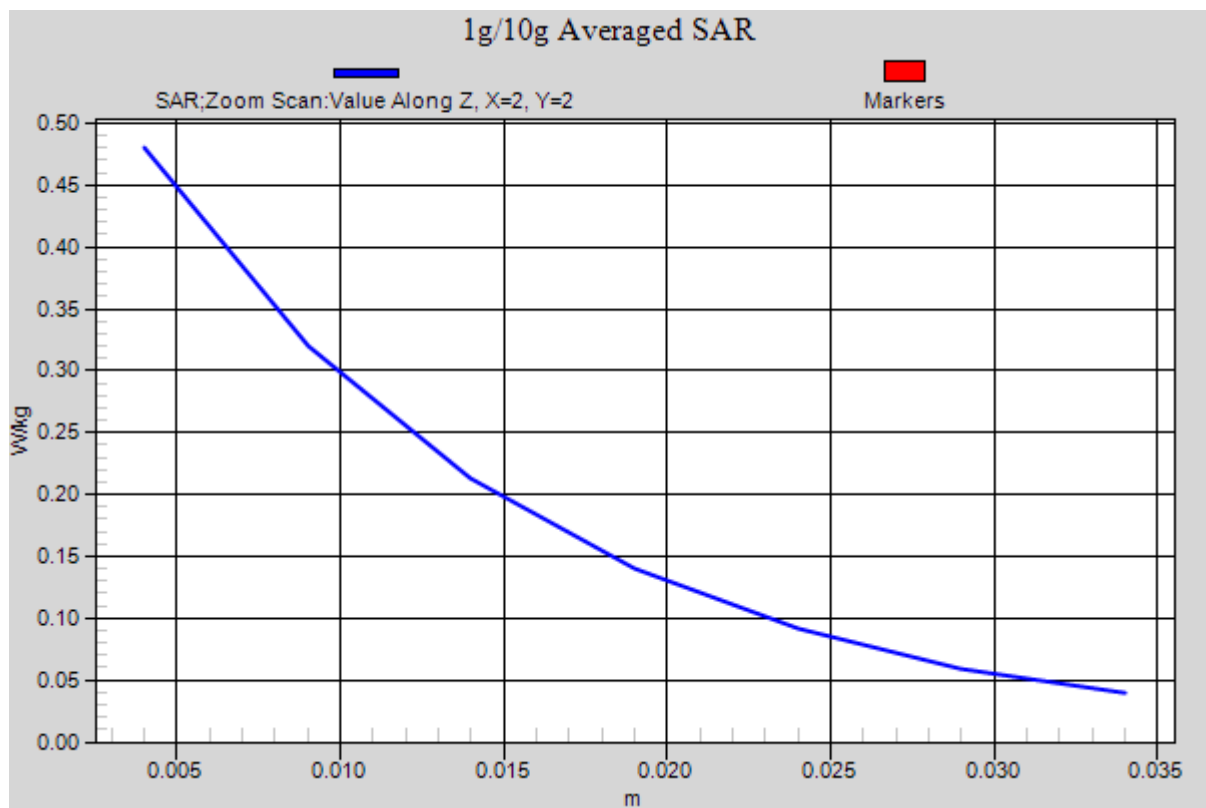


Figure 80 Right Hand Touch Cheek GSM 1900 Channel 512

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GSM 1900 Right Tilt High

Date/Time: 2/22/2014 3:57:37 AM

Communication System: GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.607$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.127 W/kg

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

Reference Value = 9.293 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.171 mW/g

SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.115 W/kg

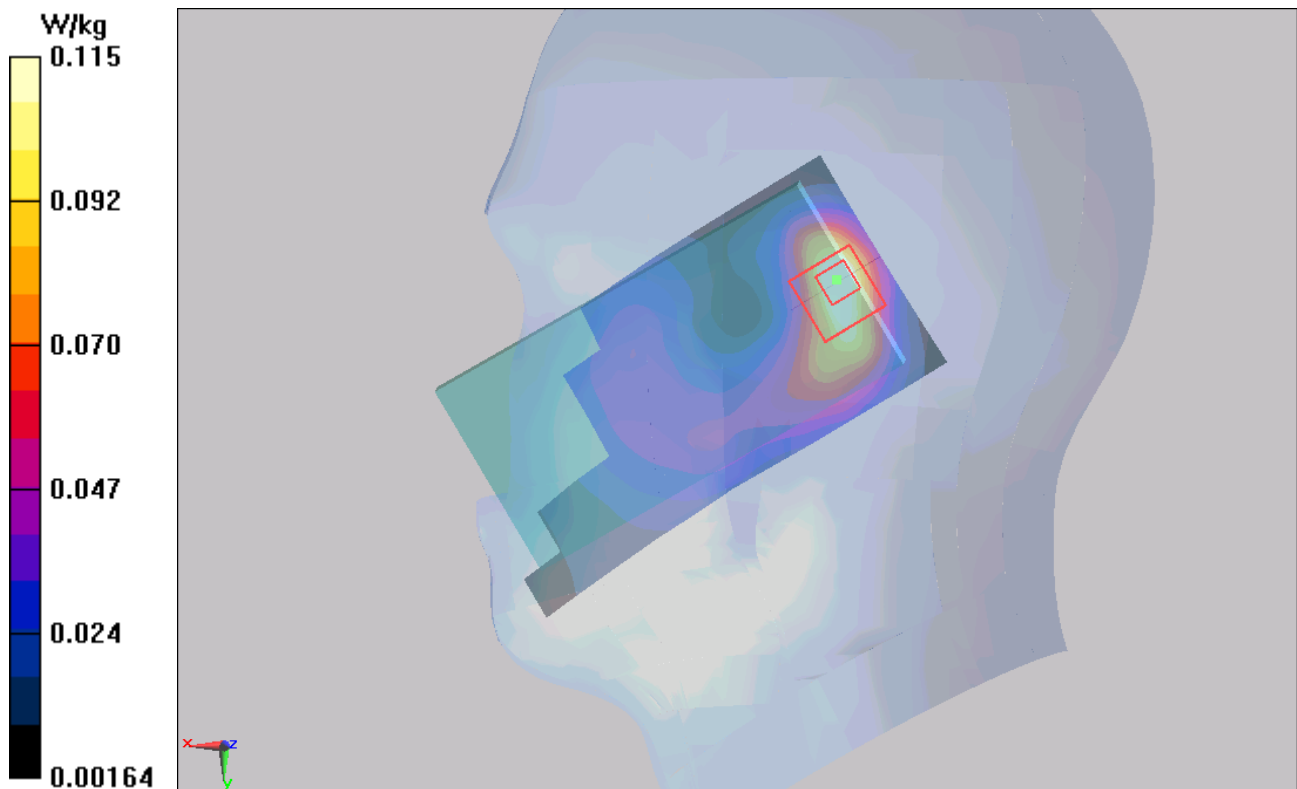


Figure 81 Right Hand Tilt 15° GSM 1900 Channel 810

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GSM 1900 Right Tilt Middle

Date/Time: 2/22/2014 4:12:49 AM

Communication System: GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.157 W/kg

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

Reference Value = 10.463 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.221 mW/g

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.147 W/kg

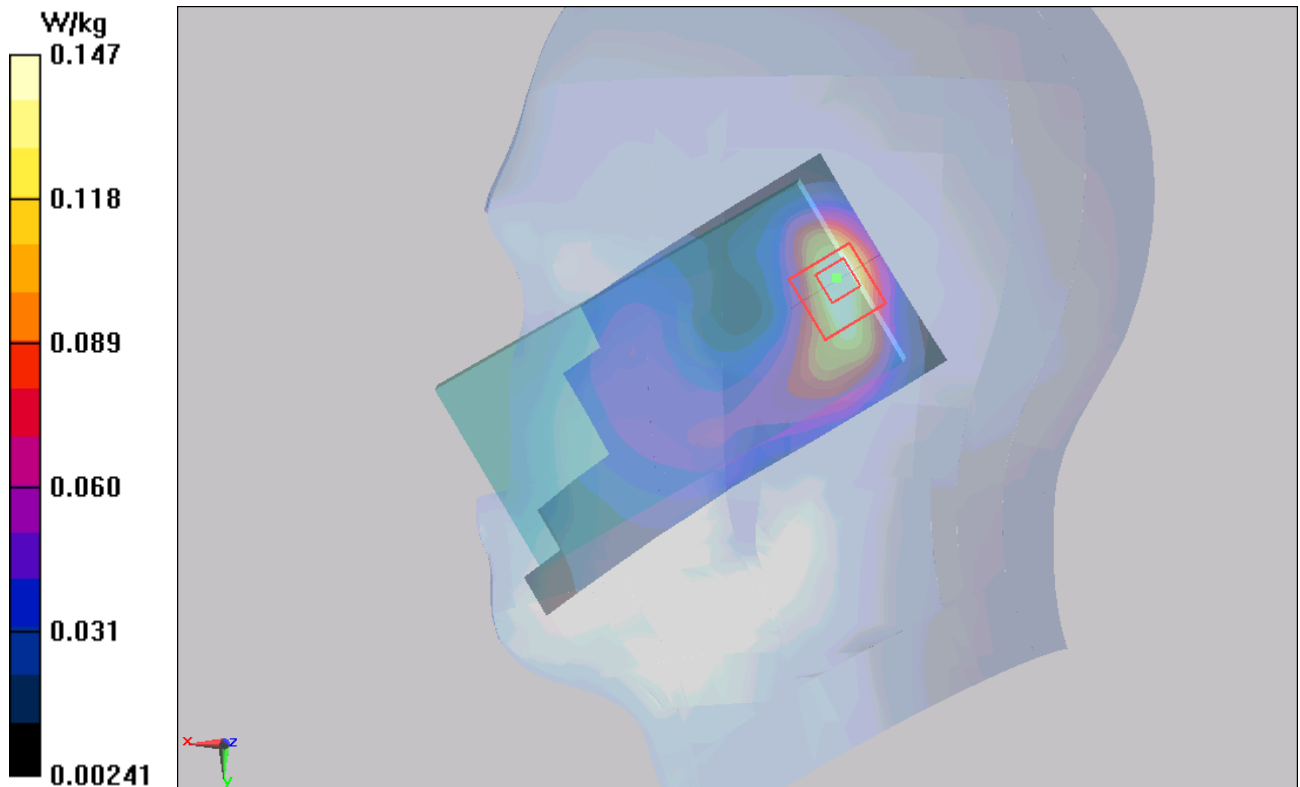


Figure 82 Right Hand Tilt 15° GSM 1900 Channel 661

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GSM 1900 Right Tilt Low

Date/Time: 2/22/2014 3:38:10 AM

Communication System: GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ mho/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.179 W/kg

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

Reference Value = 11.206 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.246 mW/g

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.085 mW/g

Maximum value of SAR (measured) = 0.166 W/kg

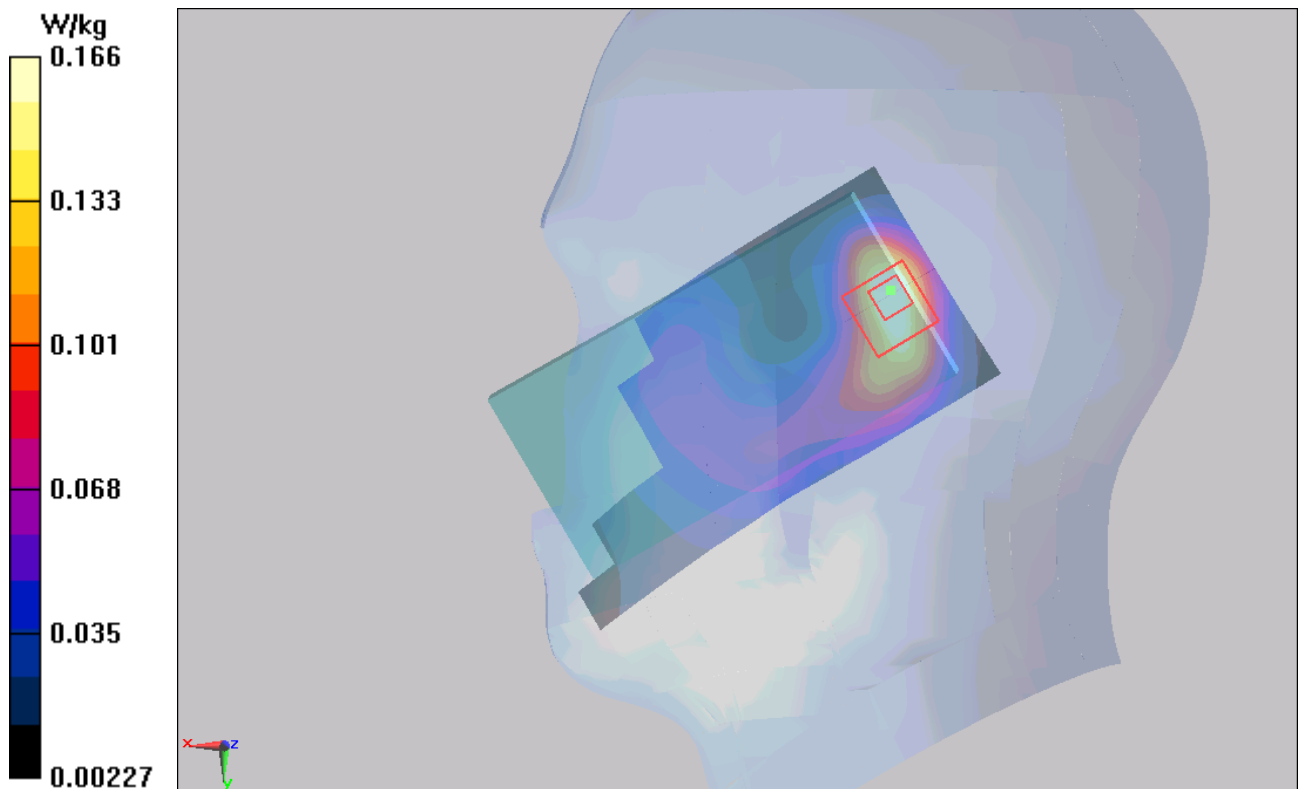


Figure 83 Right Hand Tilt 15° GSM 1900 Channel 512

GSM 1900 Right Cheek Low(Battery 2)

Date/Time: 2/22/2014 6:18:11 AM

Communication System: GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ mho/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.487 W/kg

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

Reference Value = 7.187 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.663 mW/g

SAR(1 g) = 0.430 mW/g; SAR(10 g) = 0.264 mW/g

Maximum value of SAR (measured) = 0.467 W/kg

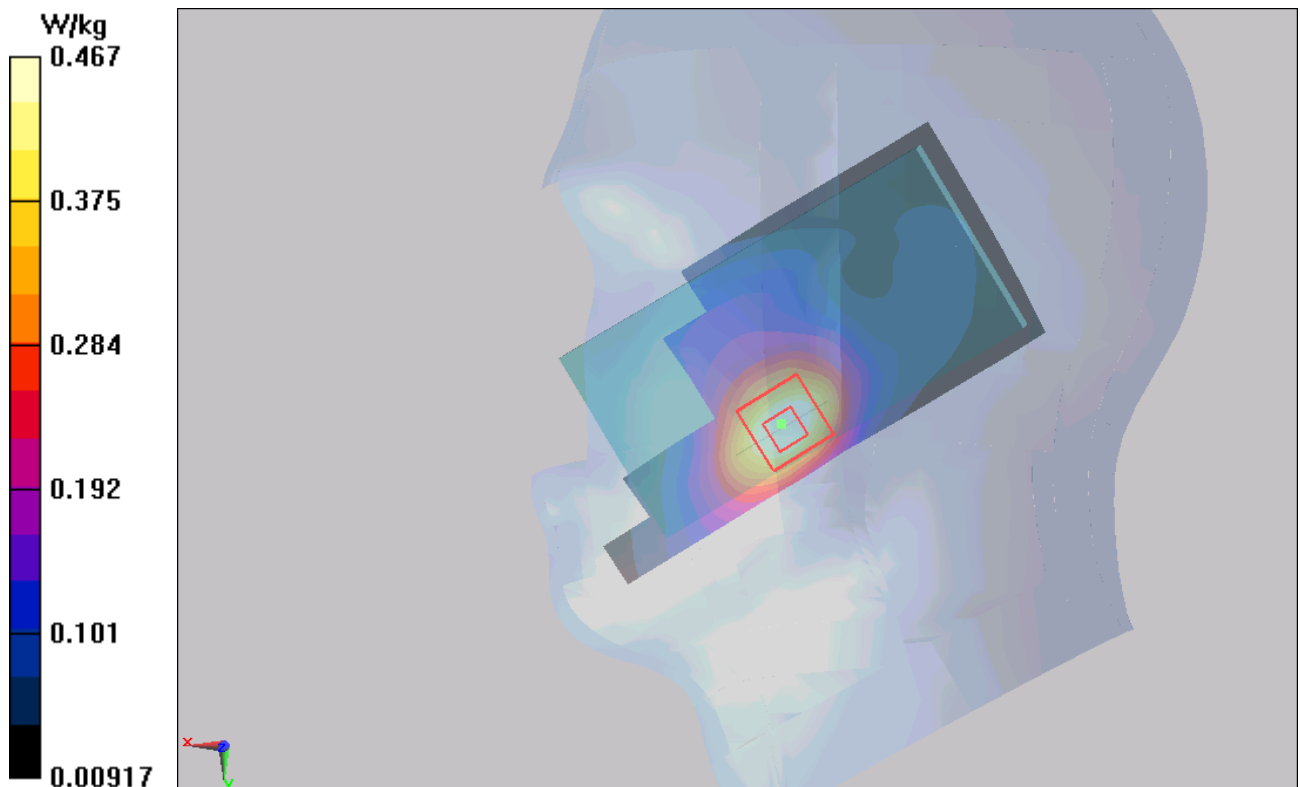


Figure 84 Right Hand Touch Cheek GSM 1900 Channel 512

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GSM 1900 GPRS (4Txslots) Back Side High

Date/Time: 2/20/2014 4:15:16 PM

Communication System: GPRS 4TX; Frequency: 1909.8 MHz; Duty Cycle: 1:2.07491

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.535$ mho/m; $\epsilon_r = 52.981$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.661 W/kg

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

Reference Value = 11.085 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.968 mW/g

SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.378 mW/g

Maximum value of SAR (measured) = 0.642 W/kg

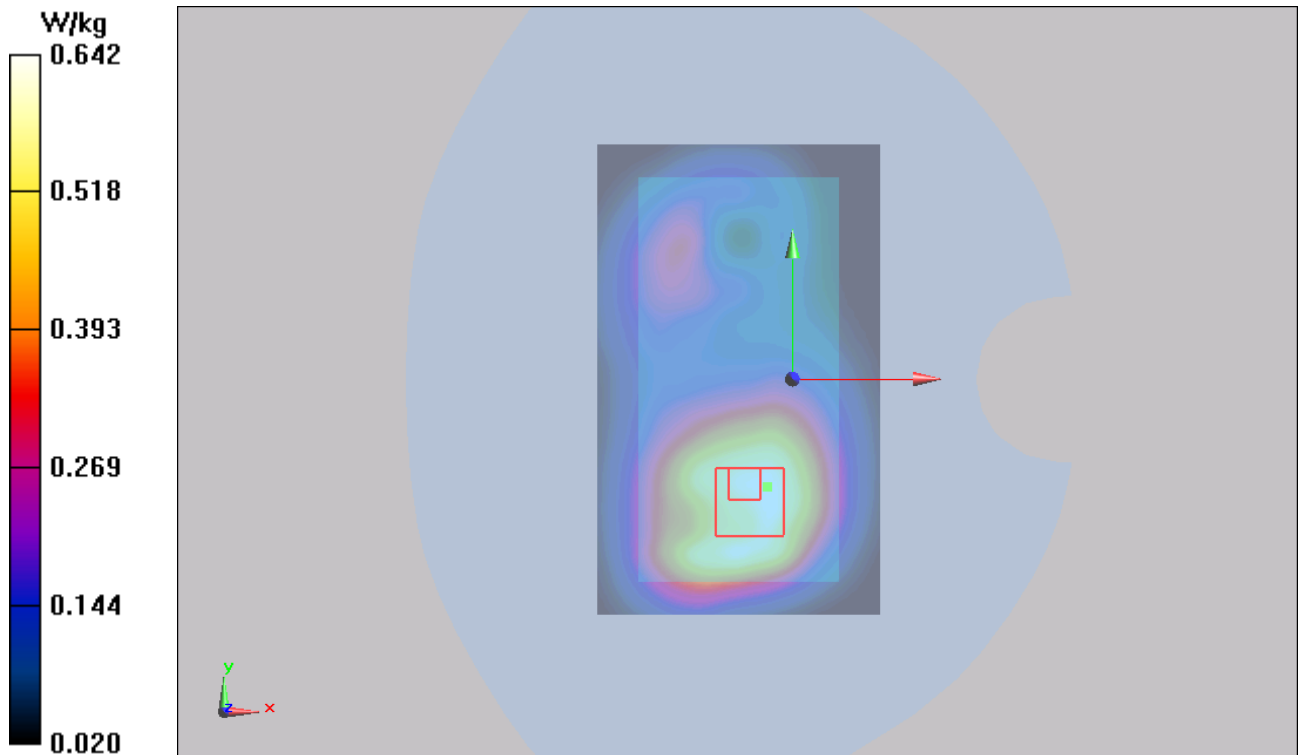


Figure 85 Body, Back Side, GSM 1900 GPRS (4Txslots) Channel 810

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GSM 1900 GPRS (4Txslots) Back Side Middle

Date/Time: 2/20/2014 3:54:06 PM

Communication System: GPRS 4TX; Frequency: 1880 MHz; Duty Cycle: 1:2.07491

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

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

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

Reference Value = 12.548 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.157 mW/g

SAR(1 g) = 0.735 mW/g; SAR(10 g) = 0.465 mW/g

Maximum value of SAR (measured) = 0.784 W/kg

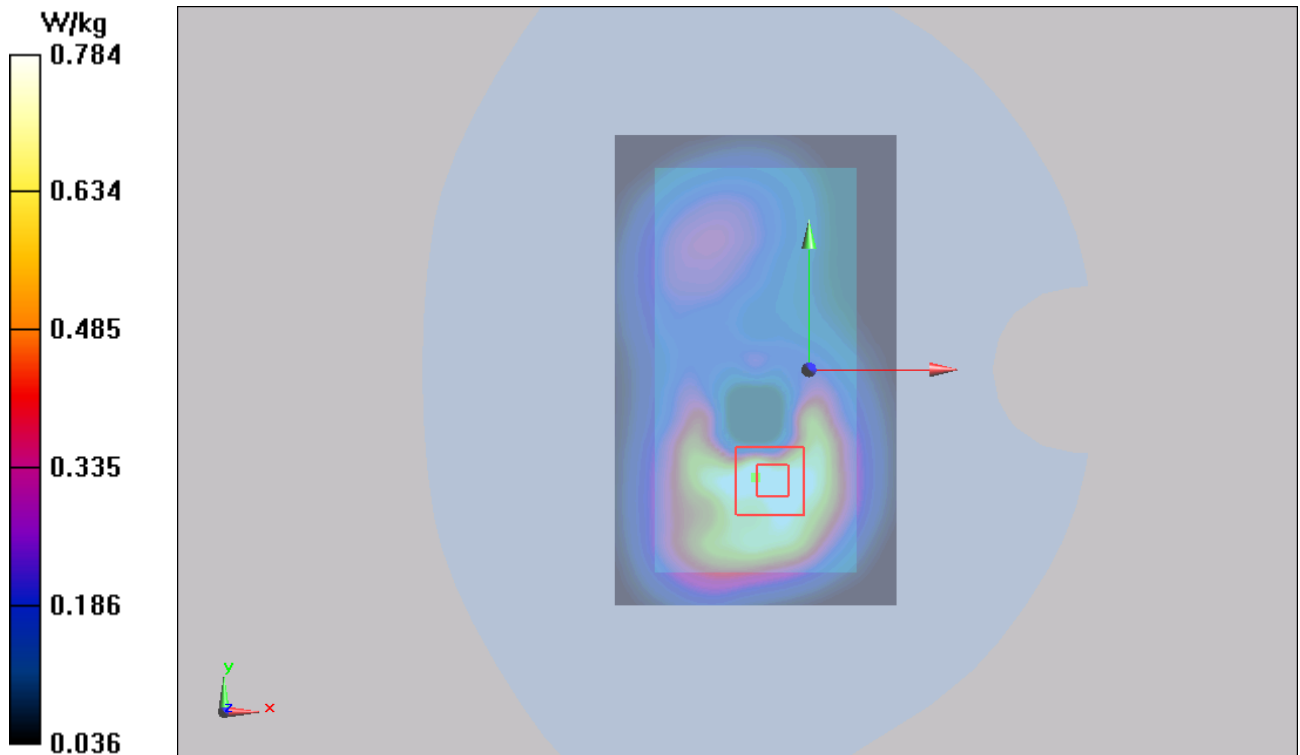


Figure 86 Body, Back Side, GSM 1900 GPRS (4Txslots) Channel 661

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GSM 1900 GPRS (4Txslots) Back Side Low

Date/Time: 2/20/2014 4:32:34 PM

Communication System: GPRS 4TX; Frequency: 1850.2 MHz; Duty Cycle: 1:2.07491

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.476$ mho/m; $\epsilon_r = 53.266$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.891 W/kg

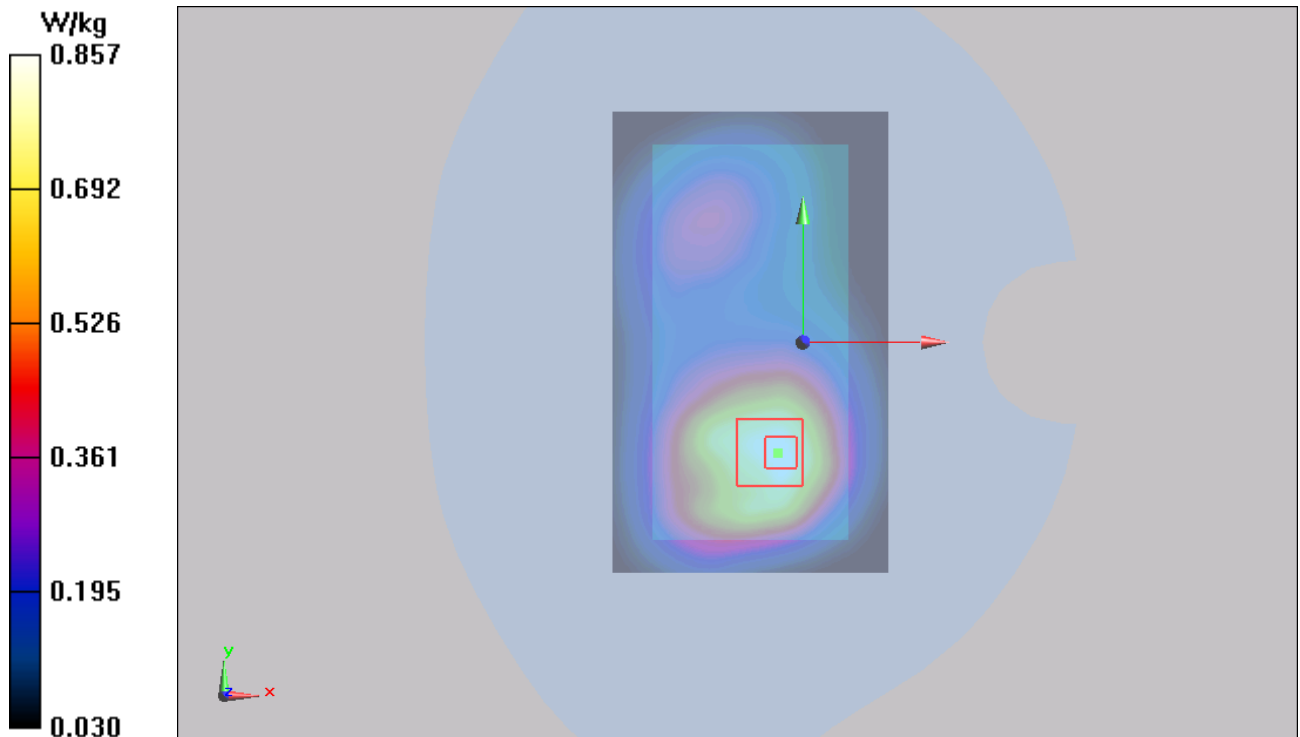
Back Side Low /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.185 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.214 mW/g

SAR(1 g) = 0.788 mW/g; SAR(10 g) = 0.501 mW/g

Maximum value of SAR (measured) = 0.857 W/kg



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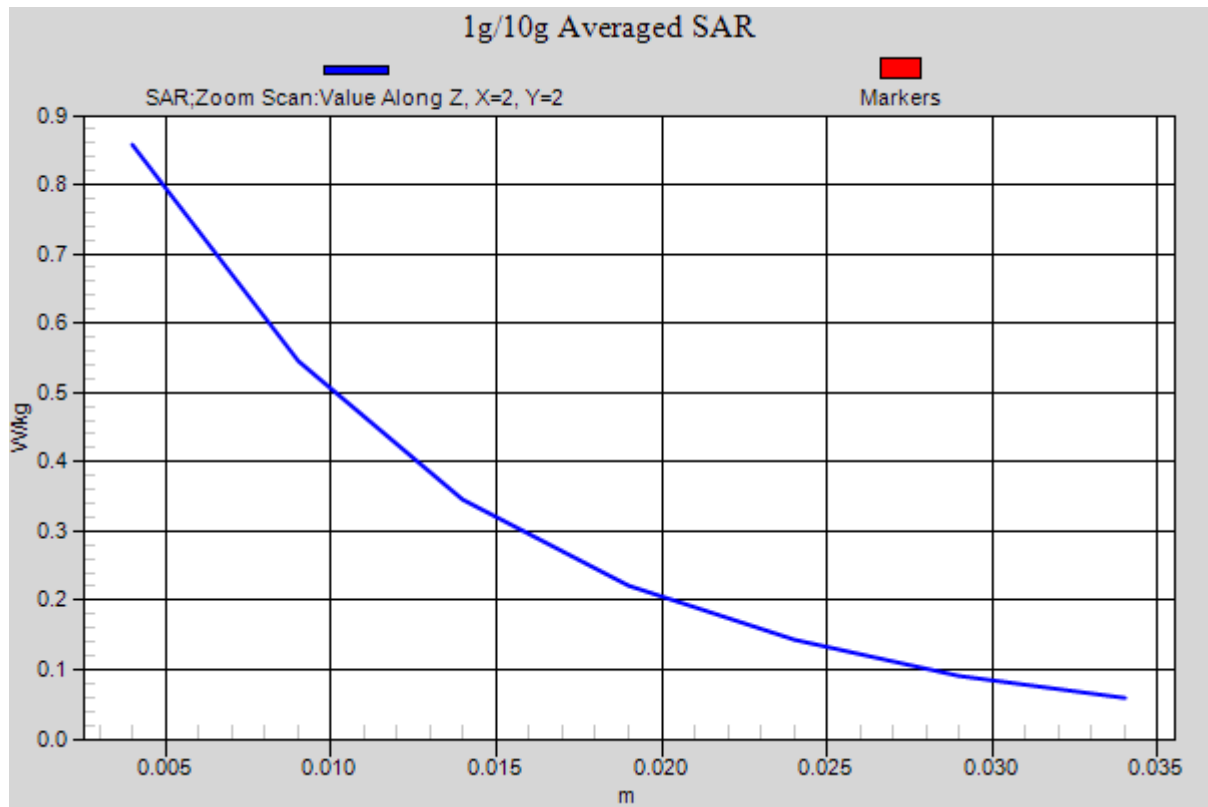


Figure 87 Body, Back Side, GSM 1900 GPRS (4Txslots) Channel 512

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GSM 1900 GPRS (4Txslots) Front Side High

Date/Time: 2/20/2014 2:55:37 PM

Communication System: GPRS 4TX; Frequency: 1909.8 MHz; Duty Cycle: 1:2.07491

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.535$ mho/m; $\epsilon_r = 52.981$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.804 W/kg

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

Reference Value = 9.699 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.158 mW/g

SAR(1 g) = 0.738 mW/g; SAR(10 g) = 0.463 mW/g

Maximum value of SAR (measured) = 0.792 W/kg

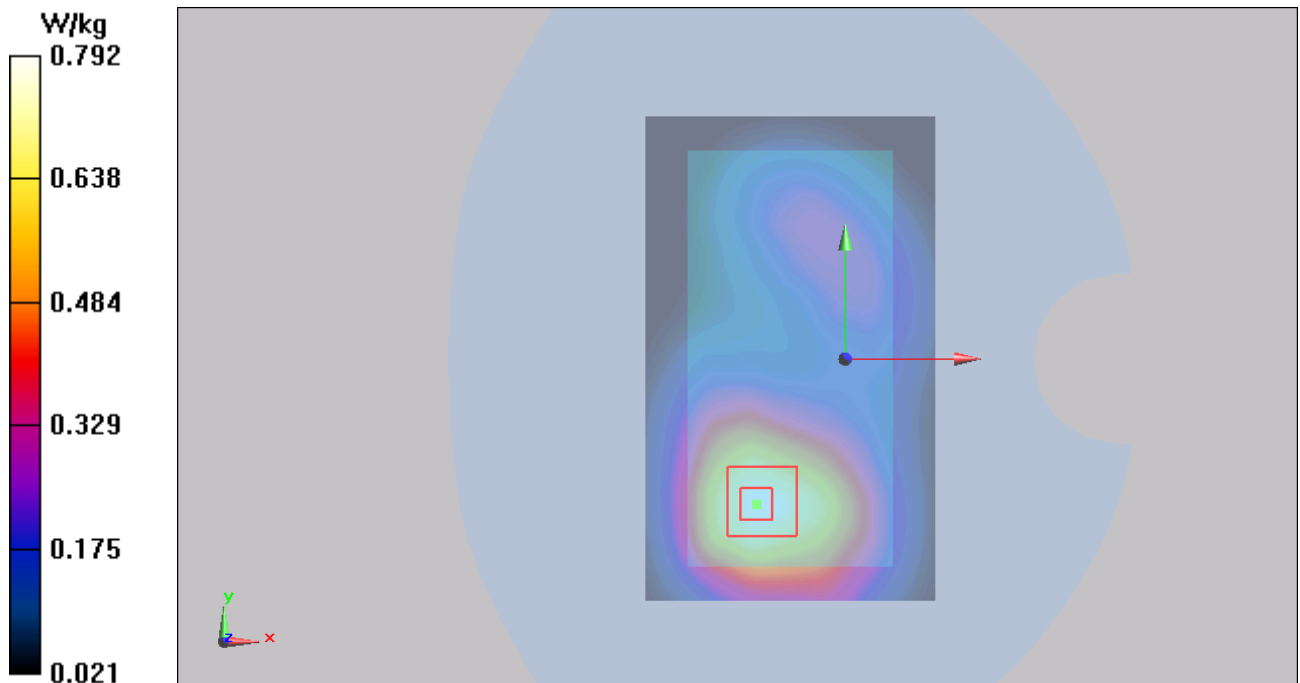


Figure 88 Body, Front Side, GSM 1900 GPRS (4Txslots) Channel 810

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GSM 1900 GPRS (4Txslots) Front Side Middle

Date/Time: 2/20/2014 2:37:00 PM

Communication System: GPRS 4TX; Frequency: 1880 MHz; Duty Cycle: 1:2.07491

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.792 W/kg

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

Reference Value = 10.207 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.980 mW/g

SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.427 mW/g

Maximum value of SAR (measured) = 0.745 W/kg

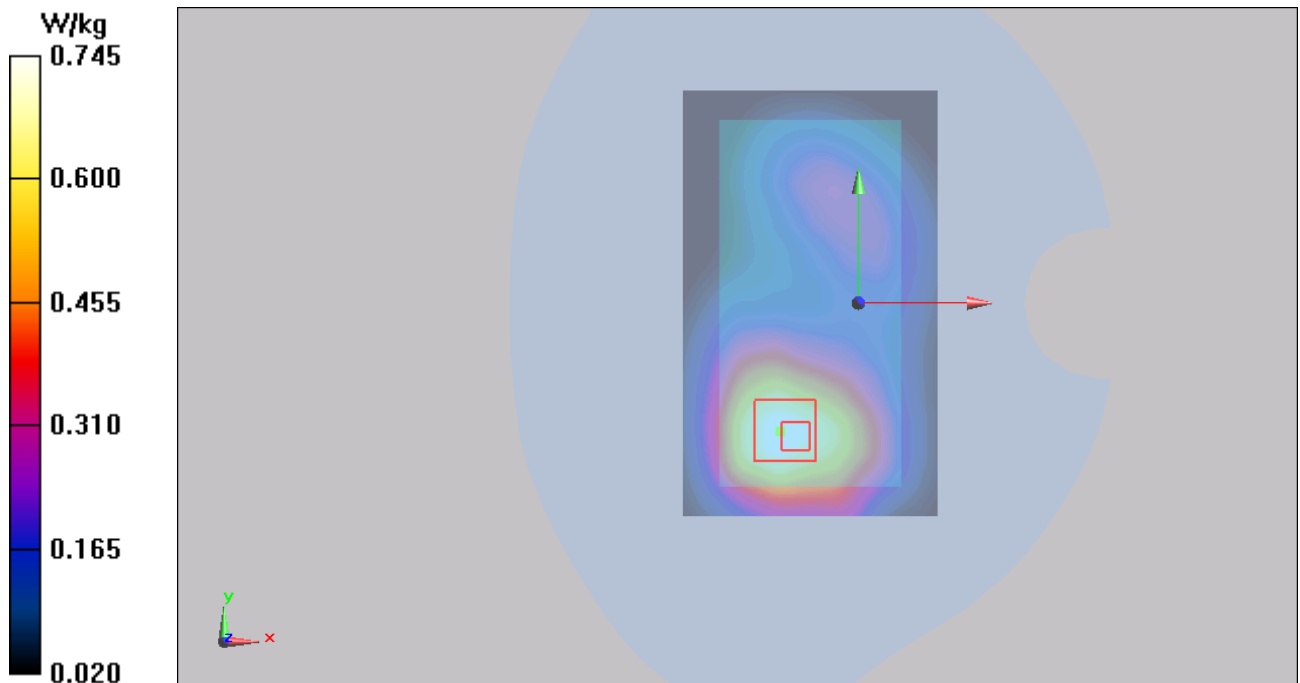


Figure 89 Body, Front Side, GSM 1900 GPRS (4Txslots) Channel 661

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GSM 1900 GPRS (4Txslots) Front Side Low

Date/Time: 2/20/2014 3:15:14 PM

Communication System: GPRS 4TX; Frequency: 1850.2 MHz; Duty Cycle: 1:2.07491

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.476$ mho/m; $\epsilon_r = 53.266$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.714 W/kg

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

Reference Value = 9.969 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.921 mW/g

SAR(1 g) = 0.609 mW/g; SAR(10 g) = 0.382 mW/g

Maximum value of SAR (measured) = 0.691 W/kg

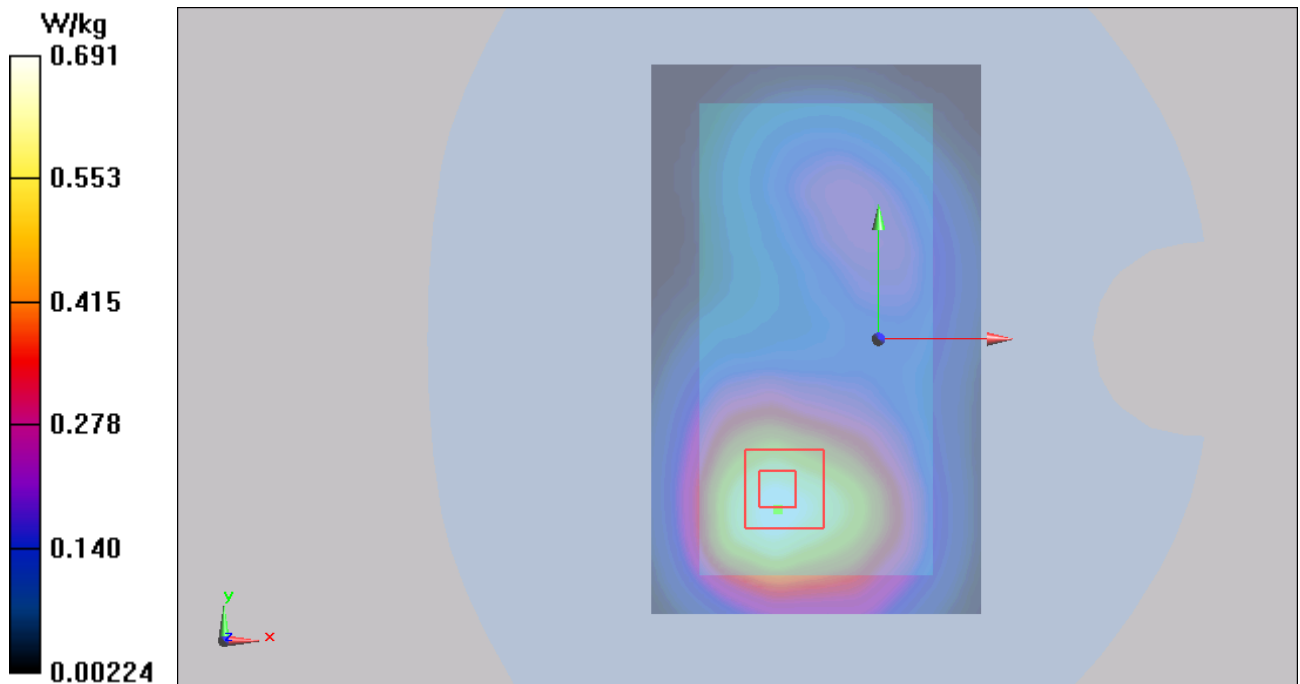


Figure 90 Body, Front Side, GSM 1900 GPRS (4Txslots) Channel 512

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GSM 1900 GPRS (4Txslots) Left Edge Middle

Date/Time: 2/20/2014 4:53:43 PM

Communication System: GPRS 4TX; Frequency: 1880 MHz; Duty Cycle: 1:2.07491

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Edge Middle /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.203 W/kg

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

Reference Value = 8.768 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.309 mW/g

SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.208 W/kg

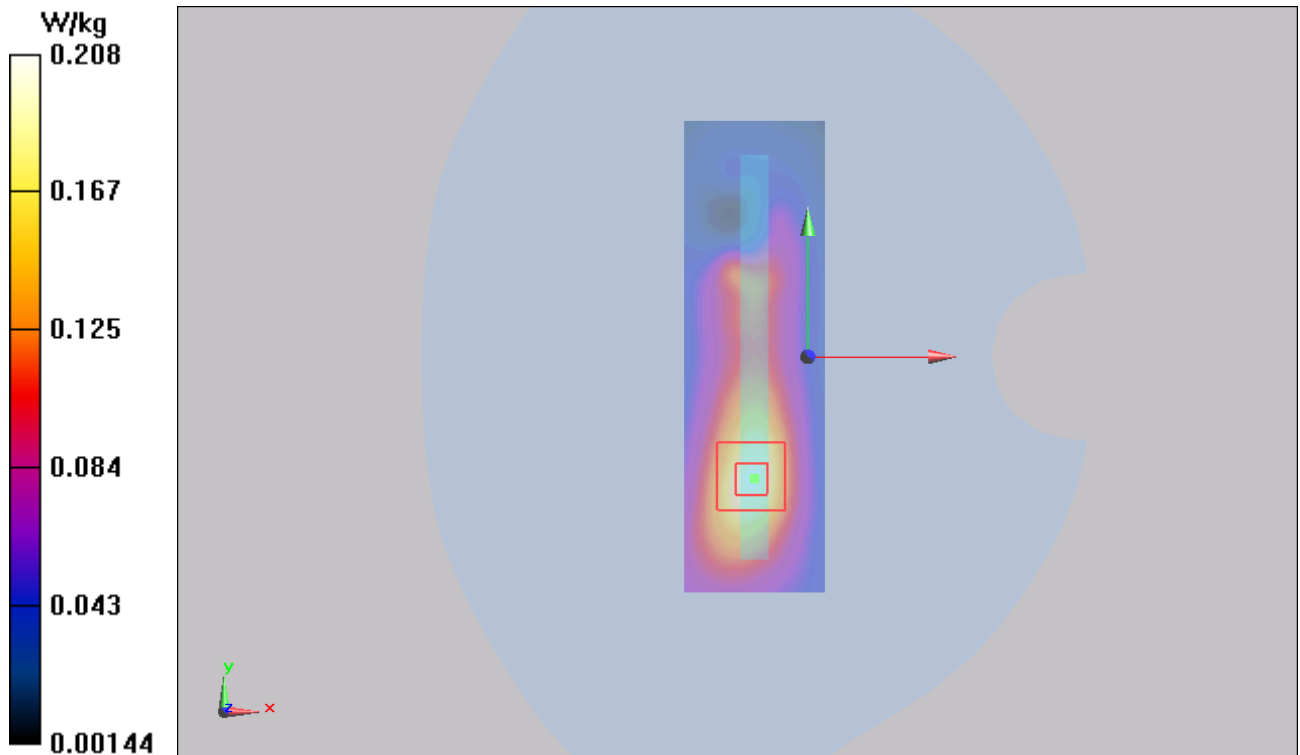


Figure 91 Body, Left Edge, GSM 1900 GPRS (4Txslots) Channel 661

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GSM 1900 GPRS (4Txslots) Right Edge Middle

Date/Time: 2/20/2014 5:22:25 PM

Communication System: GPRS 4TX; Frequency: 1880 MHz; Duty Cycle: 1:2.07491

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Edge Middle /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.214 W/kg

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

Reference Value = 6.532 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.283 mW/g

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.198 W/kg

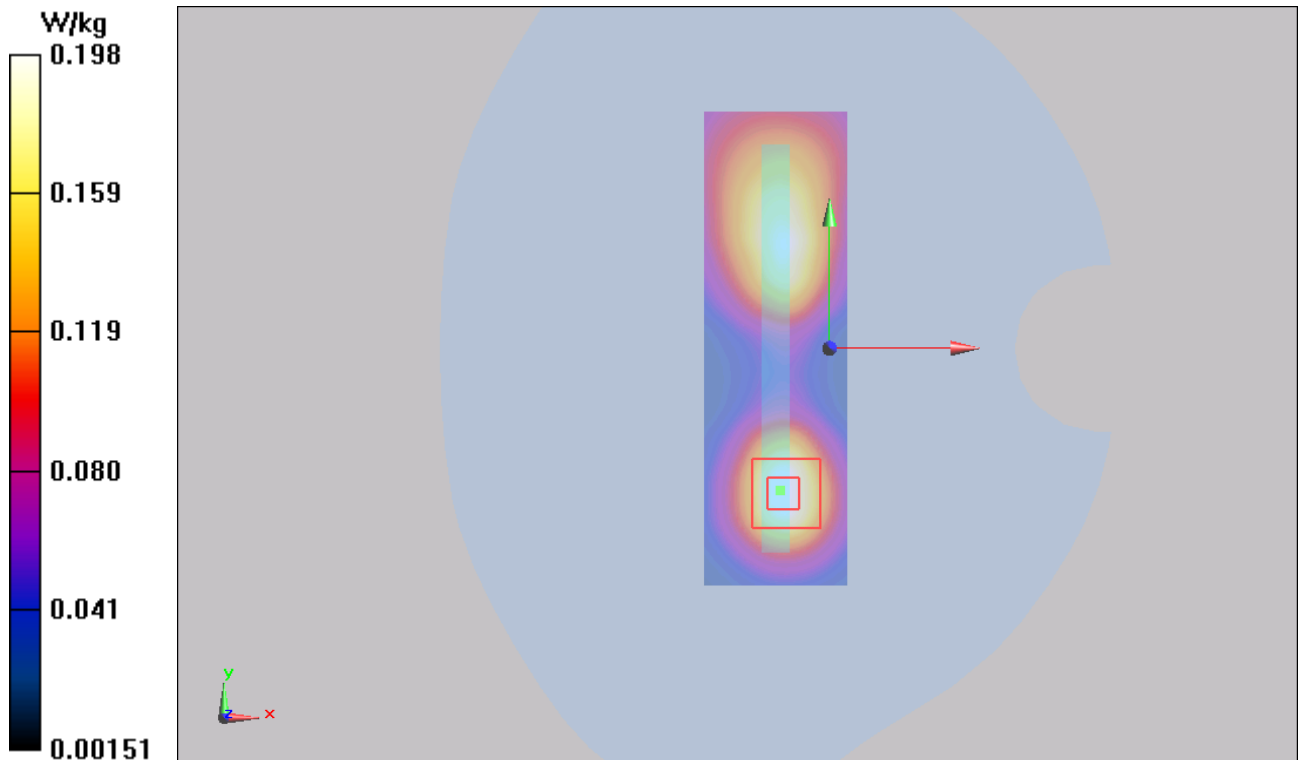


Figure 92 Body, Right Edge, GSM 1900 GPRS (4Txslots) Channel 661

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GSM 1900 GPRS (4Txslots) Bottom Edge Middle

Date/Time: 2/20/2014 5:39:00 PM

Communication System: GPRS 4TX; Frequency: 1880 MHz; Duty Cycle: 1:2.07491

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Bottom Edge Middle /Area Scan (41x81x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.710 W/kg

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

Reference Value = 19.890 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.073 mW/g

SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.348 mW/g

Maximum value of SAR (measured) = 0.713 W/kg

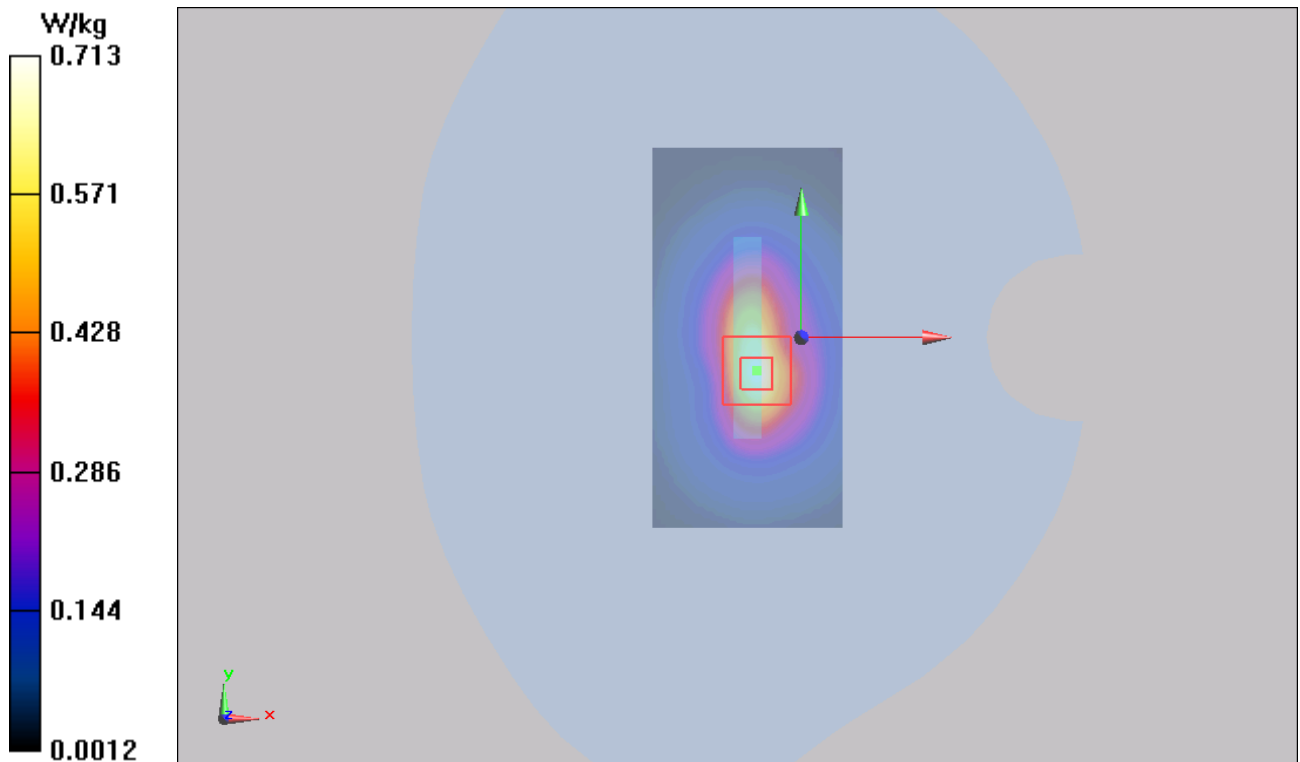


Figure 93 Body, Bottom Edge, GSM 1900 GPRS (4Txslots) Channel 661

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GSM 1900 EGPRS (4Txslots) Back Side Low

Date/Time: 2/20/2014 6:51:07 PM

Communication System: EGPRS 4TX; Frequency: 1710.2 MHz; Duty Cycle: 1:2.07491

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.427$ mho/m; $\epsilon_r = 53.336$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3816; ConvF(7.8, 7.8, 7.8); Calibrated: 10/3/2011;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.741 W/kg

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

Reference Value = 9.993 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 1.036 mW/g

SAR(1 g) = 0.654 mW/g; SAR(10 g) = 0.418 mW/g

Maximum value of SAR (measured) = 0.701 W/kg

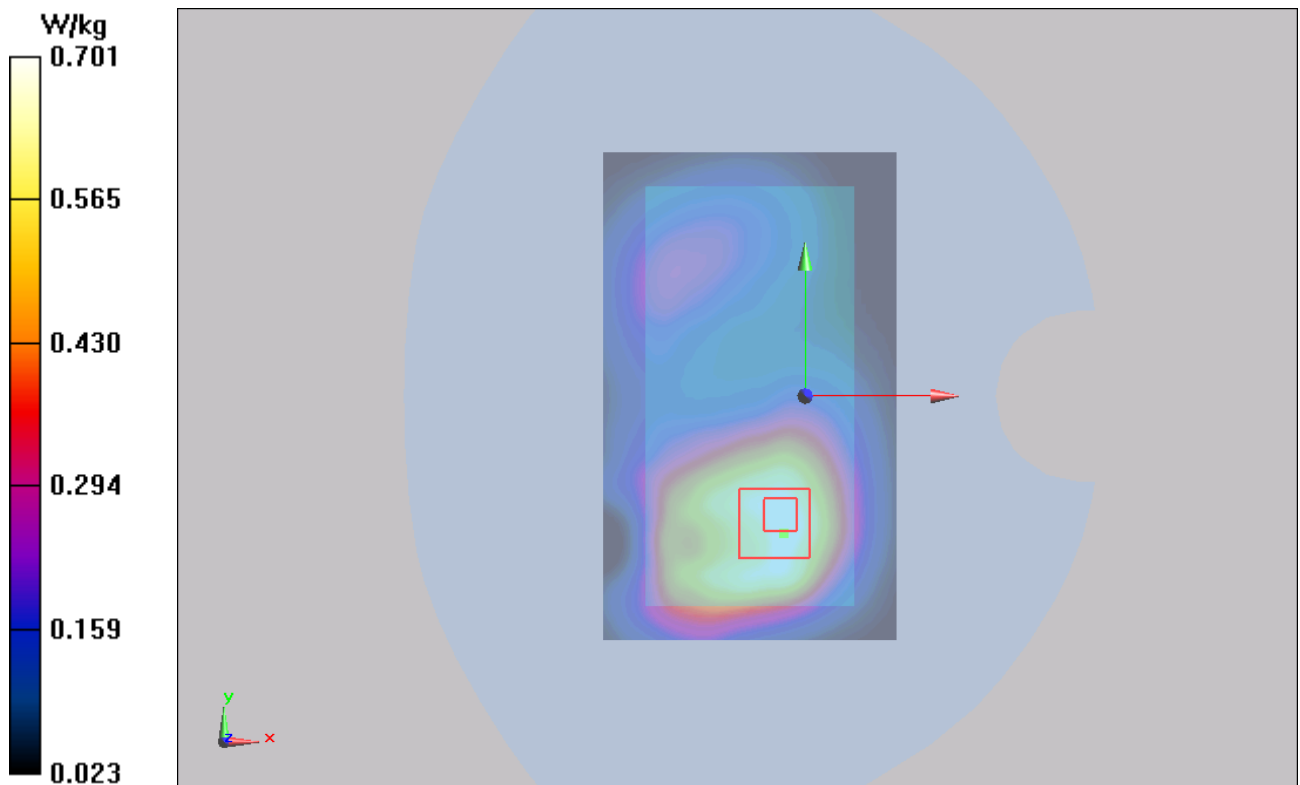


Figure 94 Body, Back Side, GSM 1900 EGPRS (4Txslots) Channel 512

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GSM 1900 GPRS (4Txslots) Back Side Low(Battery 2)

Date/Time: 2/20/2014 6:03:20 PM

Communication System: GPRS 4TX; Frequency: 1850.2 MHz; Duty Cycle: 1:2.07491

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.476$ mho/m; $\epsilon_r = 53.266$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.770 W/kg

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

Reference Value = 9.677 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 1.461 mW/g

SAR(1 g) = 0.708 mW/g; SAR(10 g) = 0.445 mW/g

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

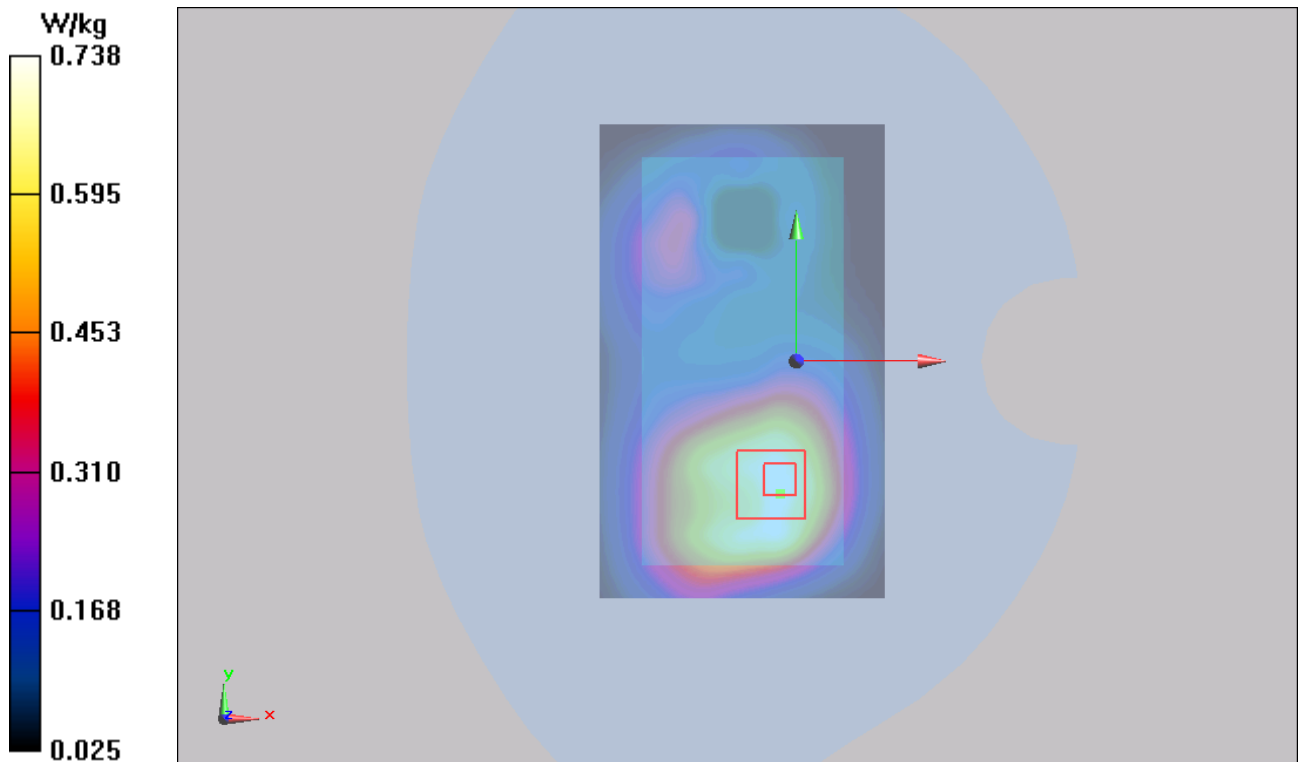


Figure 95 Body, Back Side, GSM 1900 GPRS (4Txslots) Channel 512

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GSM 1900 DTM Left Cheek High

Date/Time: 2/21/2014 3:49:44 PM

Communication System:GPRS 3TX (0); Frequency: 1909.8 MHz;Duty Cycle: 1:2.76694

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 39.607$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.343 W/kg

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

Reference Value = 6.213 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.325 W/kg

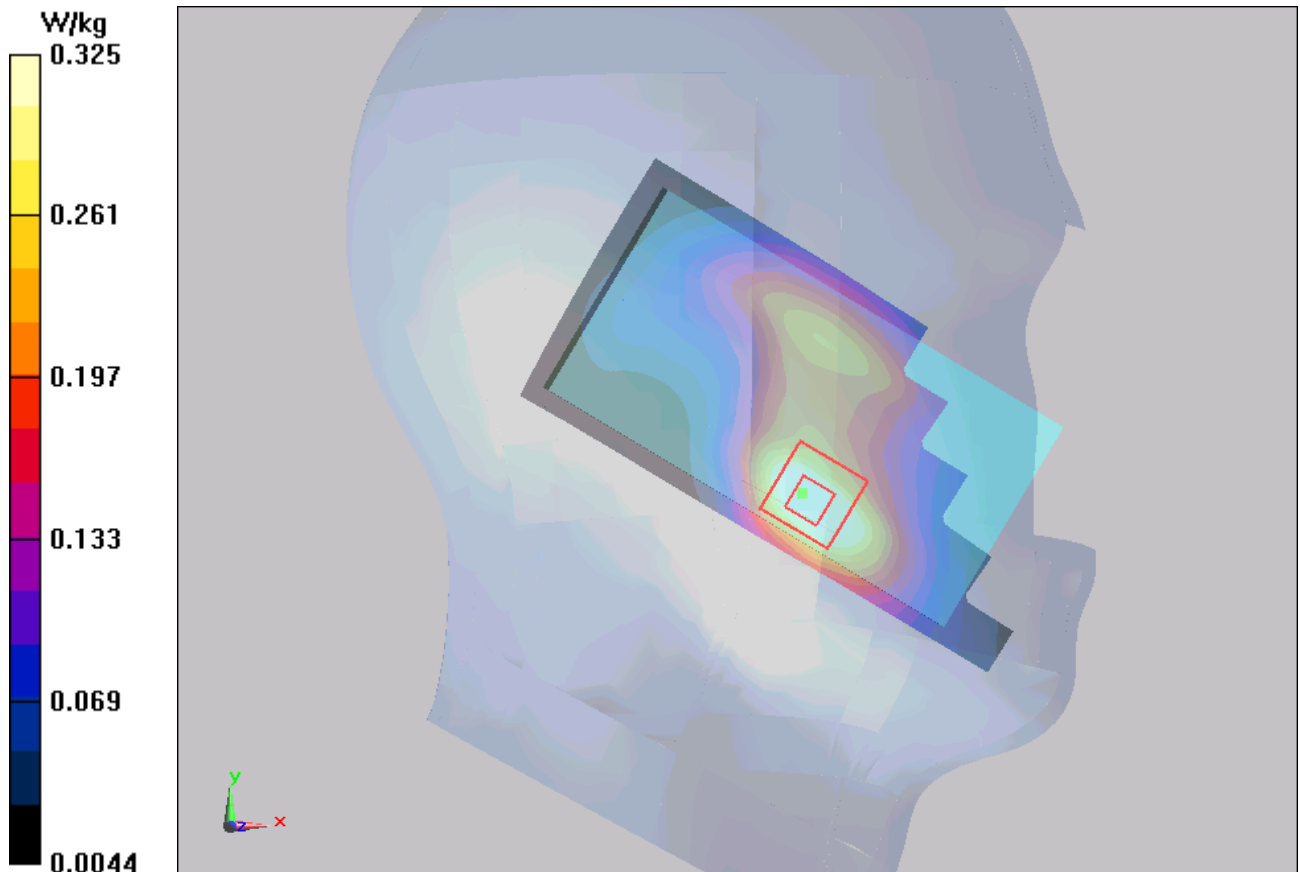


Figure 96 Left Hand Touch Cheek GSM 1900 DTM Channel 810

GSM 1900 DTM Left Cheek Middle

Date/Time: 2/21/2014 3:36:58 PM

Communication System:GPRS 3TX (0); Frequency: 1880 MHz;Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.449 W/kg

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

Reference Value = 7.025 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.627 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.249 W/kg

Maximum value of SAR (measured) = 0.418 W/kg

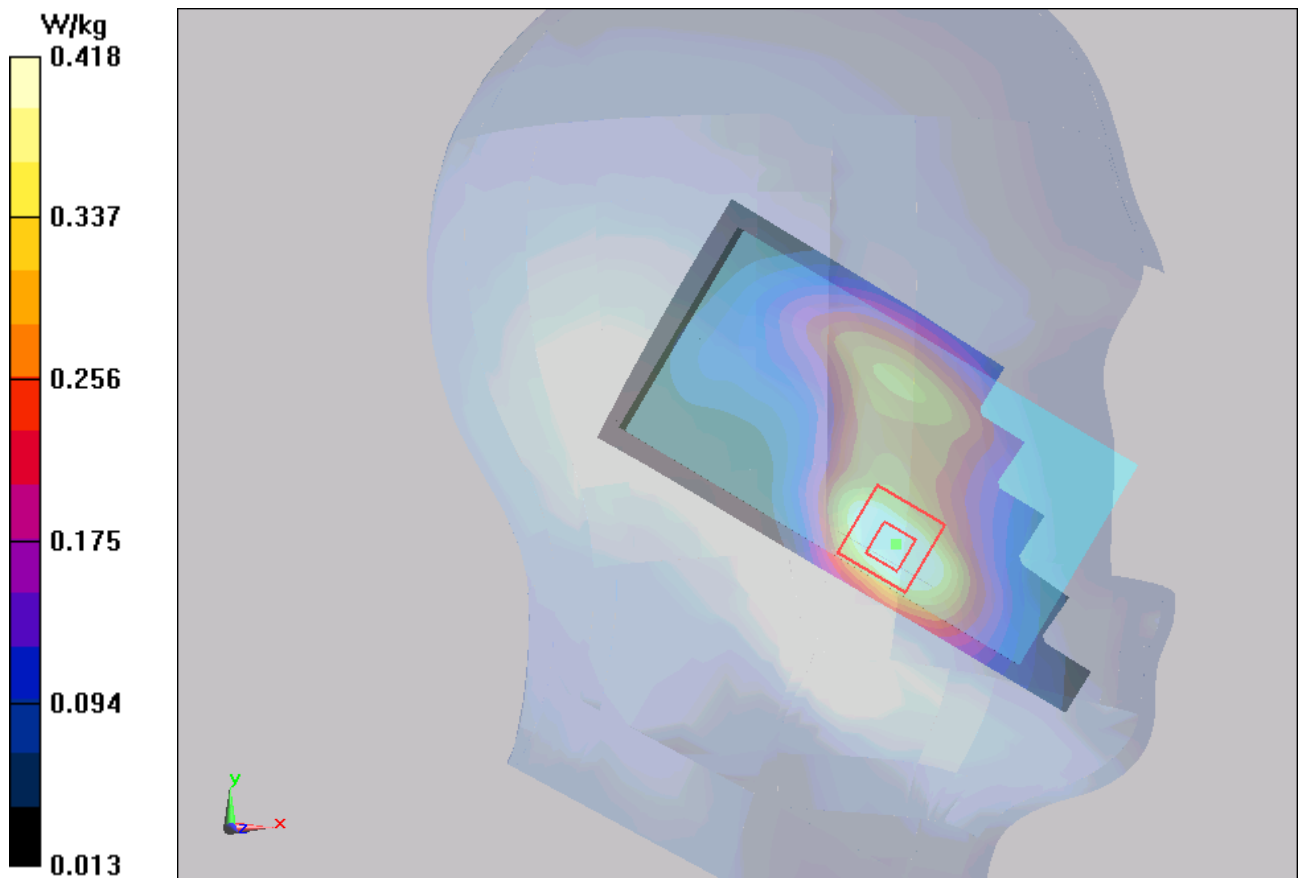


Figure 97 Left Hand Touch Cheek GSM 1900 DTM Channel 661

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GSM 1900 DTM Left Cheek Low

Date/Time: 2/21/2014 4:08:10 PM

Communication System:GPRS 3TX (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.76694

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.487 W/kg

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

Reference Value = 6.909 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 0.776 W/kg

SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.271 W/kg

Maximum value of SAR (measured) = 0.445 W/kg

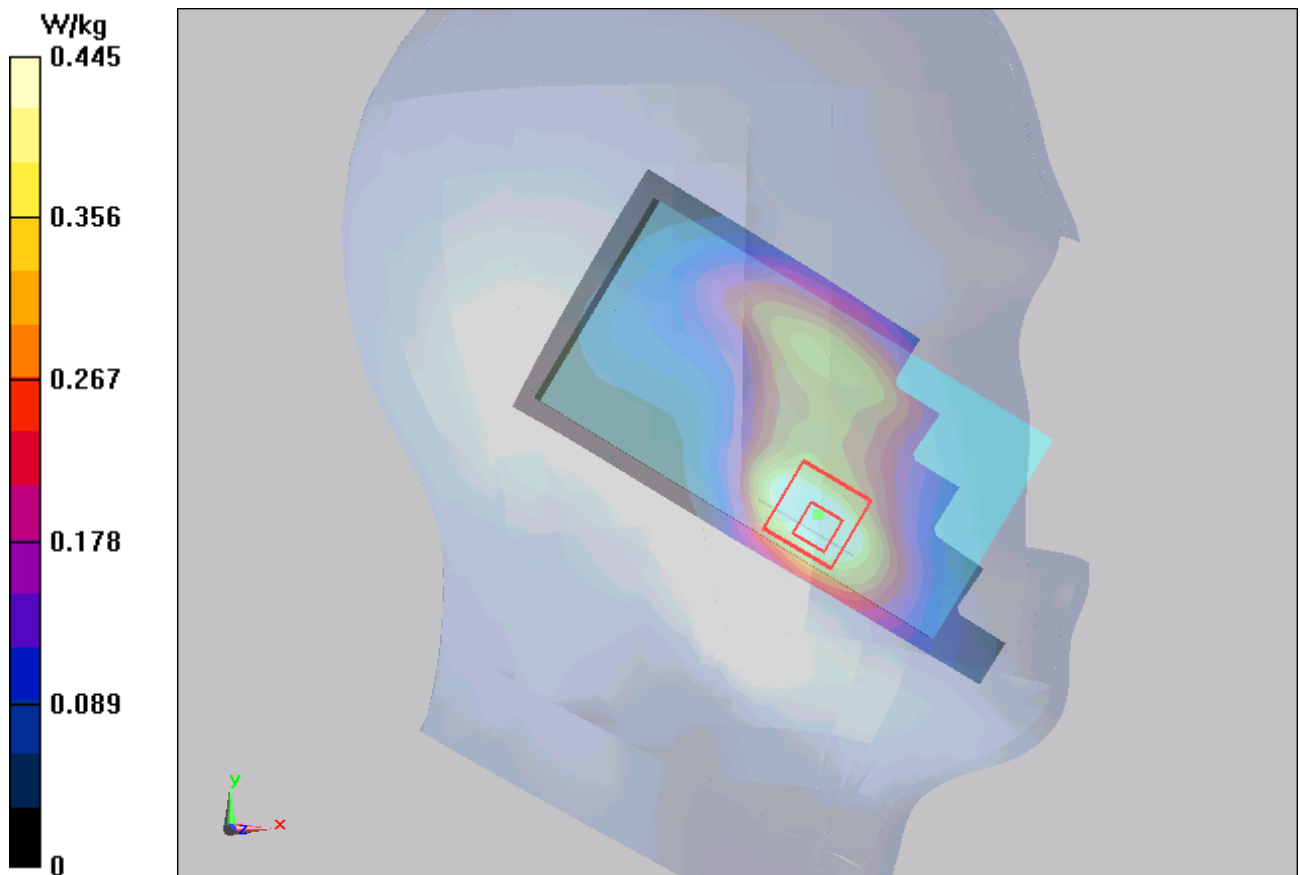


Figure 98 Left Hand Touch Cheek GSM 1900 DTM Channel 512

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GSM 1900 DTM Left Tilt High

Date/Time: 2/21/2014 4:40:15 PM

Communication System: GPRS 3TX (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 39.607$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.195 W/kg

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

Reference Value = 9.789 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 0.161 W/kg

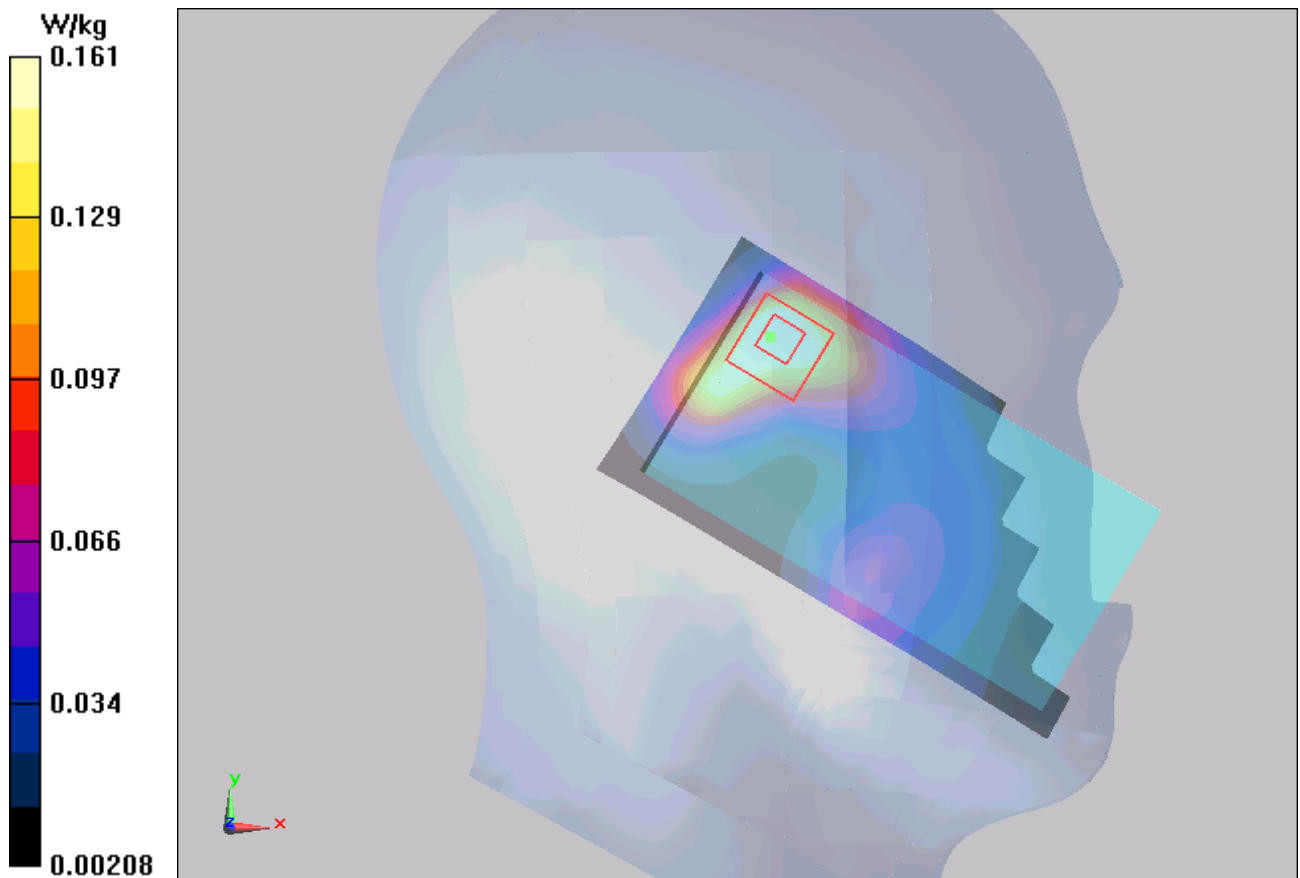


Figure 99 Left Hand Tilt 15° GSM 1900 DTM Channel 810

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GSM 1900 DTM Left Tilt Middle

Date/Time: 2/21/2014 4:53:03 PM

Communication System: DTM GPRS 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.267 W/kg

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

Reference Value = 11.453 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.216 W/kg

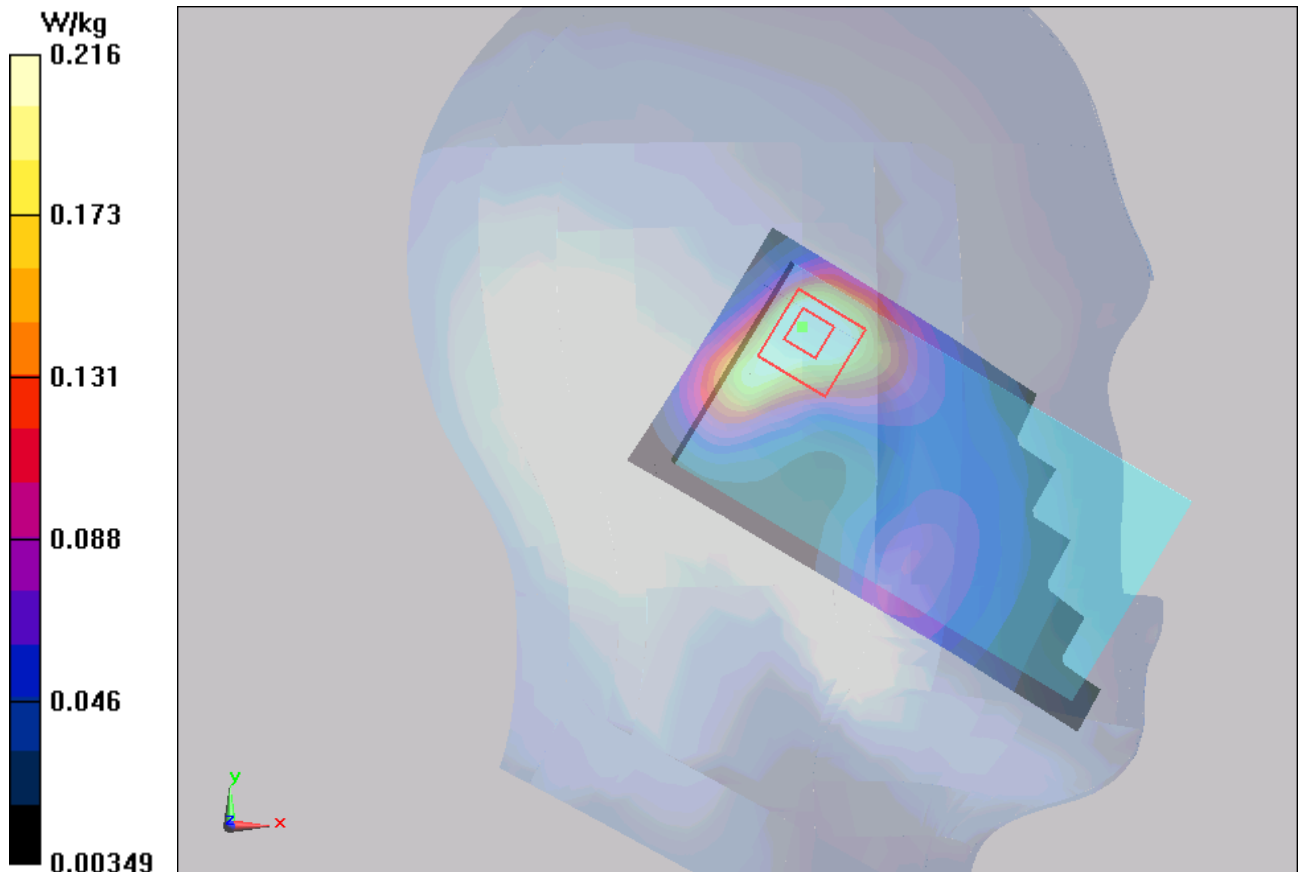


Figure 100 Left Hand Tilt 15° GSM 1900 DTM Channel 661

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GSM 1900 DTM Left Tilt Low

Date/Time: 2/21/2014 4:27:15 PM

Communication System: GPRS 3TX (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.76694

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.273 W/kg

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

Reference Value = 12.028 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.338 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.225 W/kg

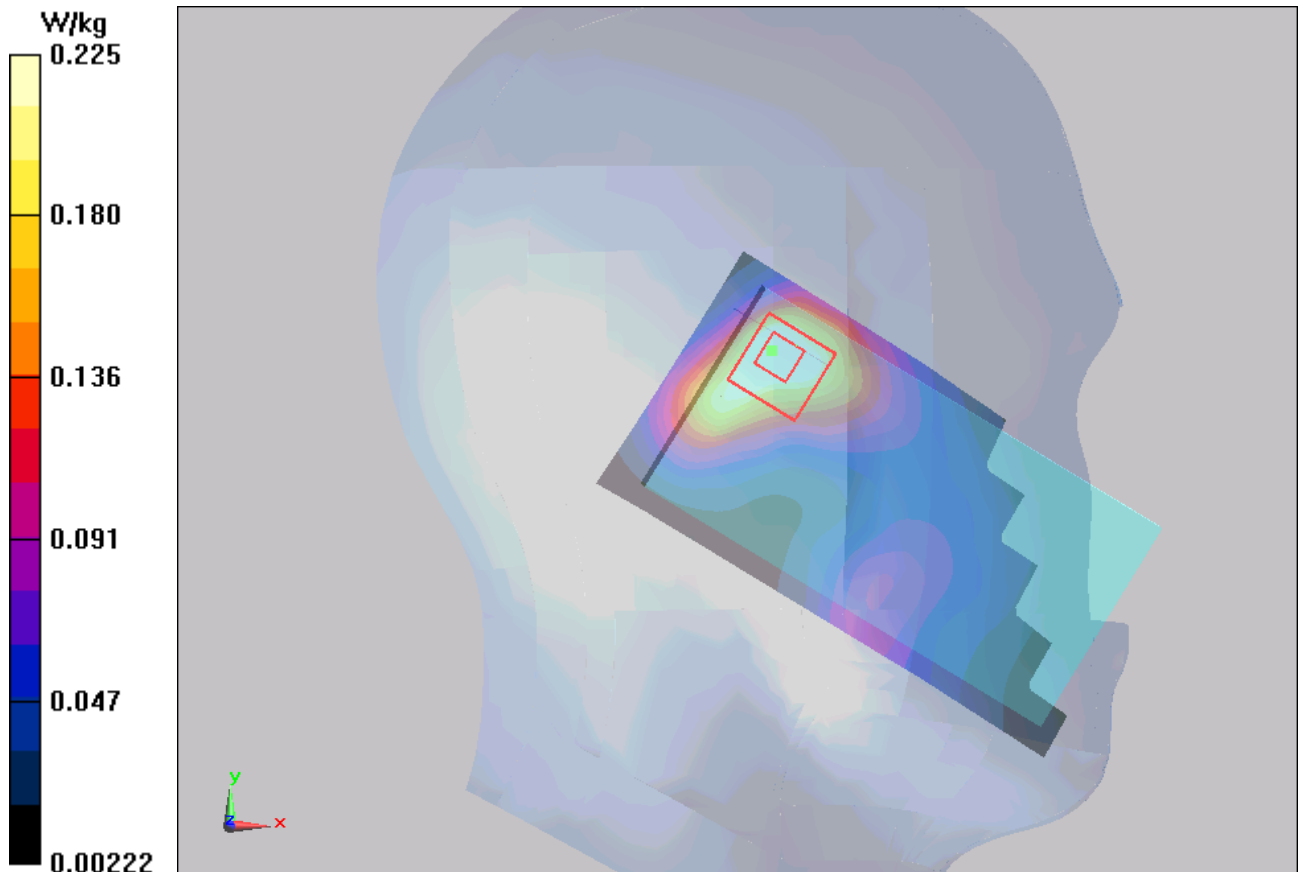


Figure 101 Left Hand Tilt 15° GSM 1900 DTM Channel 512

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GSM 1900 DTM Right Cheek High

Date/Time: 2/21/2014 5:20:24 PM

Communication System:GPRS 3TX (0); Frequency: 1909.8 MHz;Duty Cycle: 1:2.76694

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 39.607$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.437 W/kg

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

Reference Value = 7.280 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.611 W/kg

SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.240 W/kg

Maximum value of SAR (measured) = 0.398 W/kg

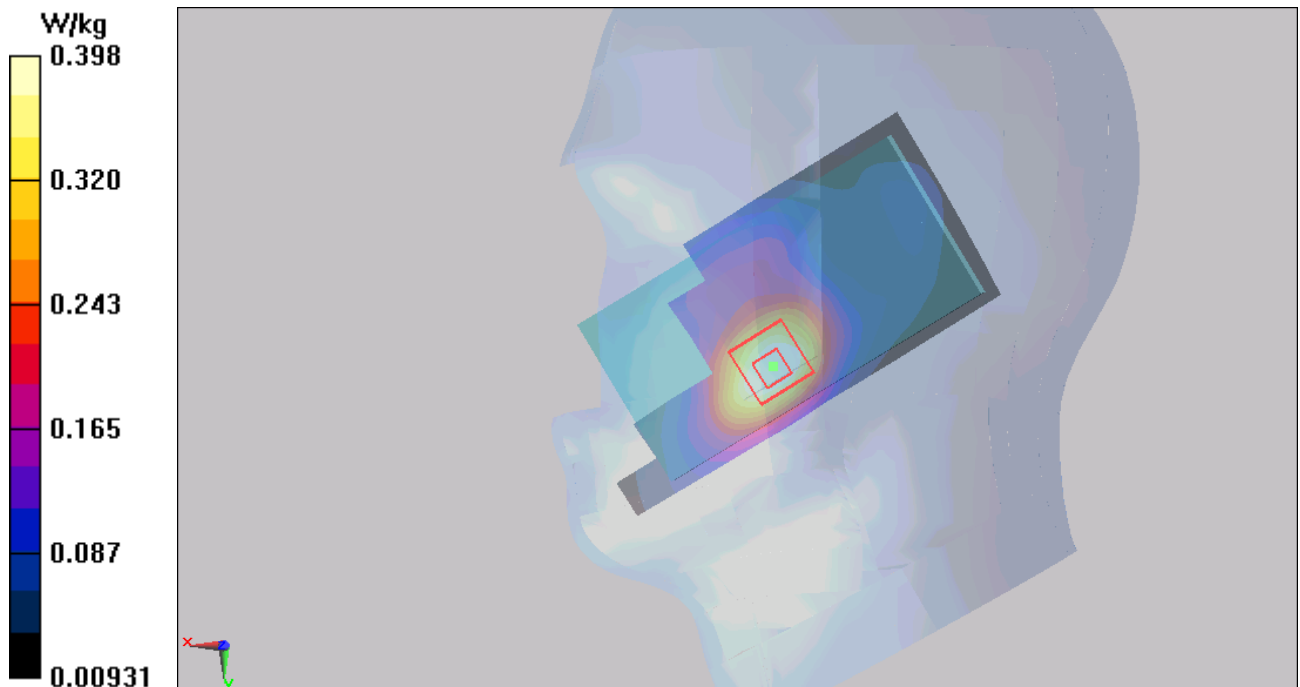


Figure 102 Right Hand Touch Cheek GSM 1900 DTM Channel 810

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GSM 1900 DTM Right Cheek Middle

Date/Time: 2/21/2014 5:08:12 PM

Communication System: GPRS 3TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 8.258 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.833 W/kg

SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.328 W/kg

Maximum value of SAR (measured) = 0.542 W/kg

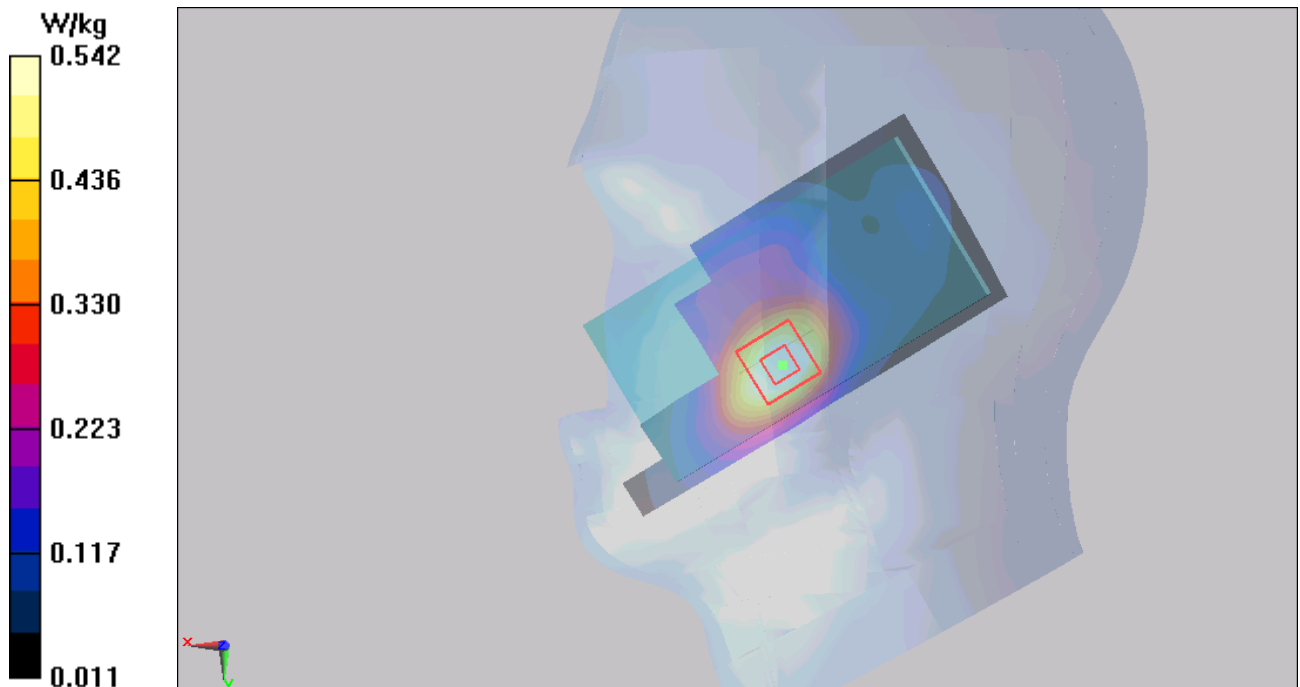


Figure 103 Right Hand Touch Cheek GSM 1900 DTM Channel 661

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GSM 1900 DTM Right Cheek Low

Date/Time: 2/21/2014 5:32:36 PM

Communication System: GPRS 3TX (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.76694

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.635 W/kg

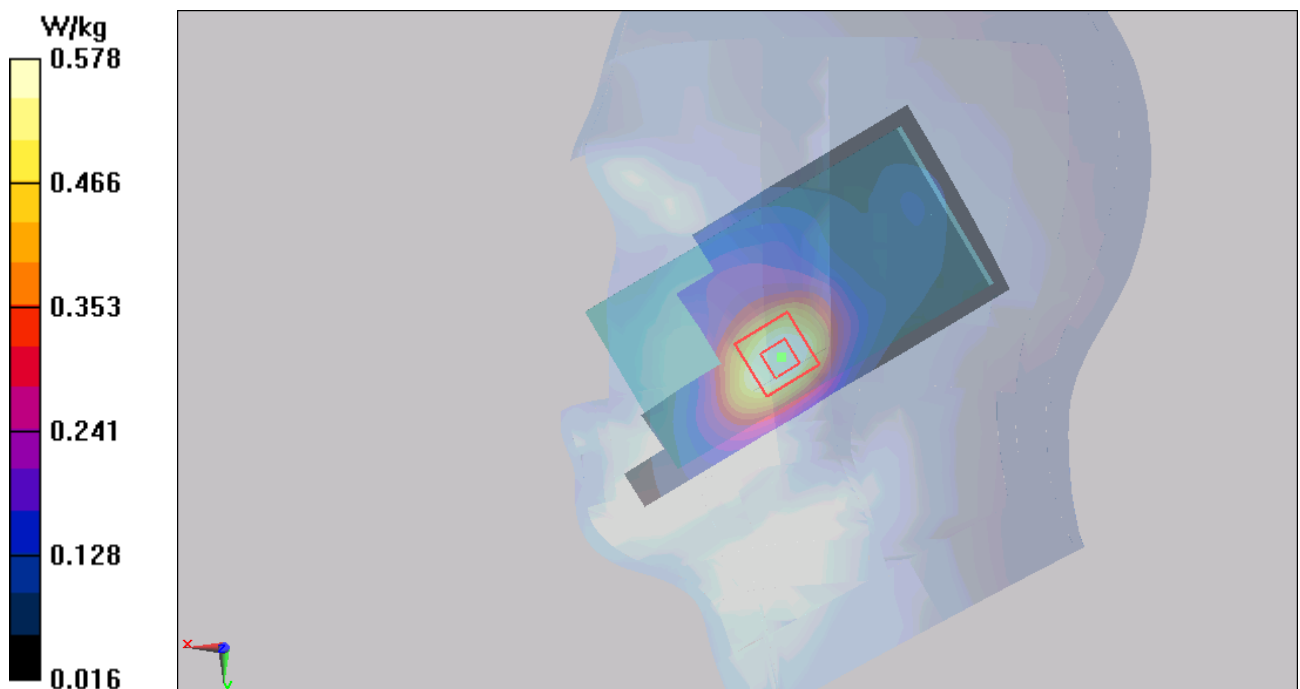
Right Cheek Low /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.150 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.870 W/kg

SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 0.578 W/kg



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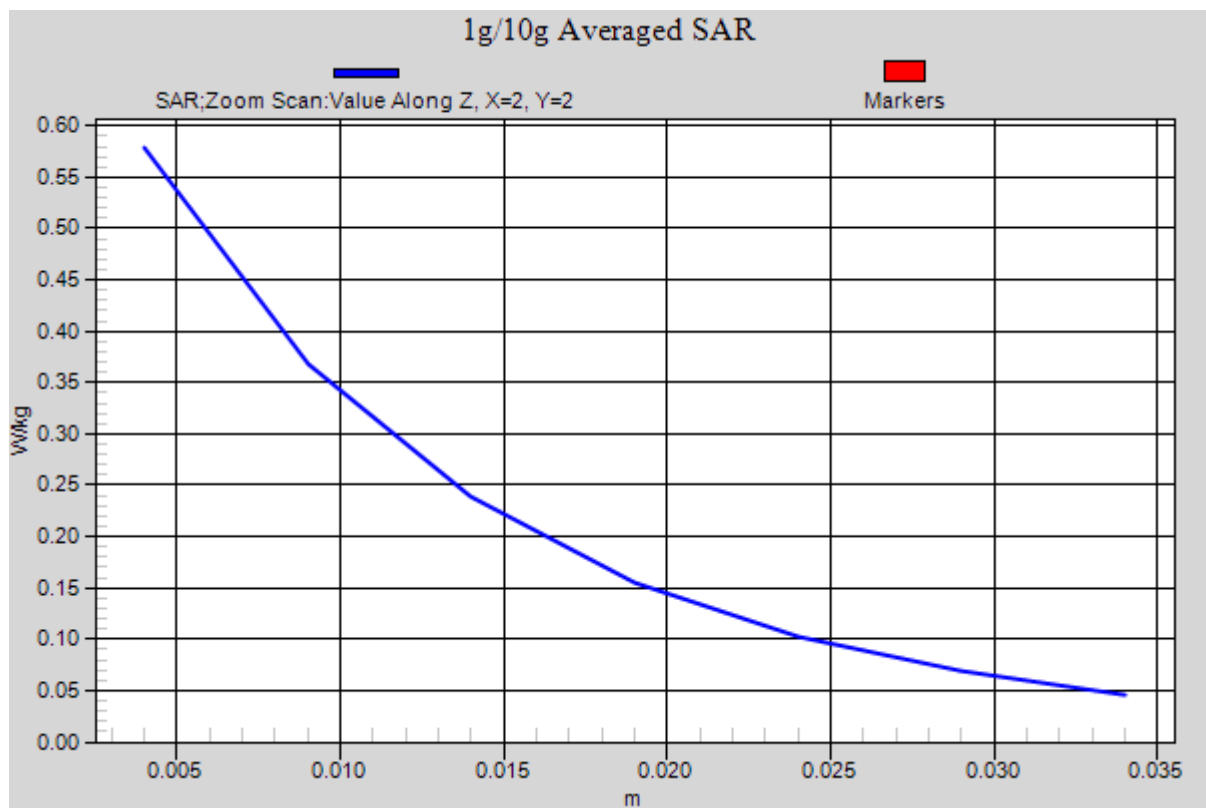


Figure 104 Right Hand Touch Cheek GSM 1900 DTM Channel 512

GSM 1900 DTM Right Tilt High

Date/Time: 2/21/2014 6:00:57 PM

Communication System:GPRS 3TX (0); Frequency: 1909.8 MHz;Duty Cycle: 1:2.76694

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 39.607$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.174 W/kg

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

Reference Value = 10.770 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.248 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.082 W/kg

Maximum value of SAR (measured) = 0.149 W/kg

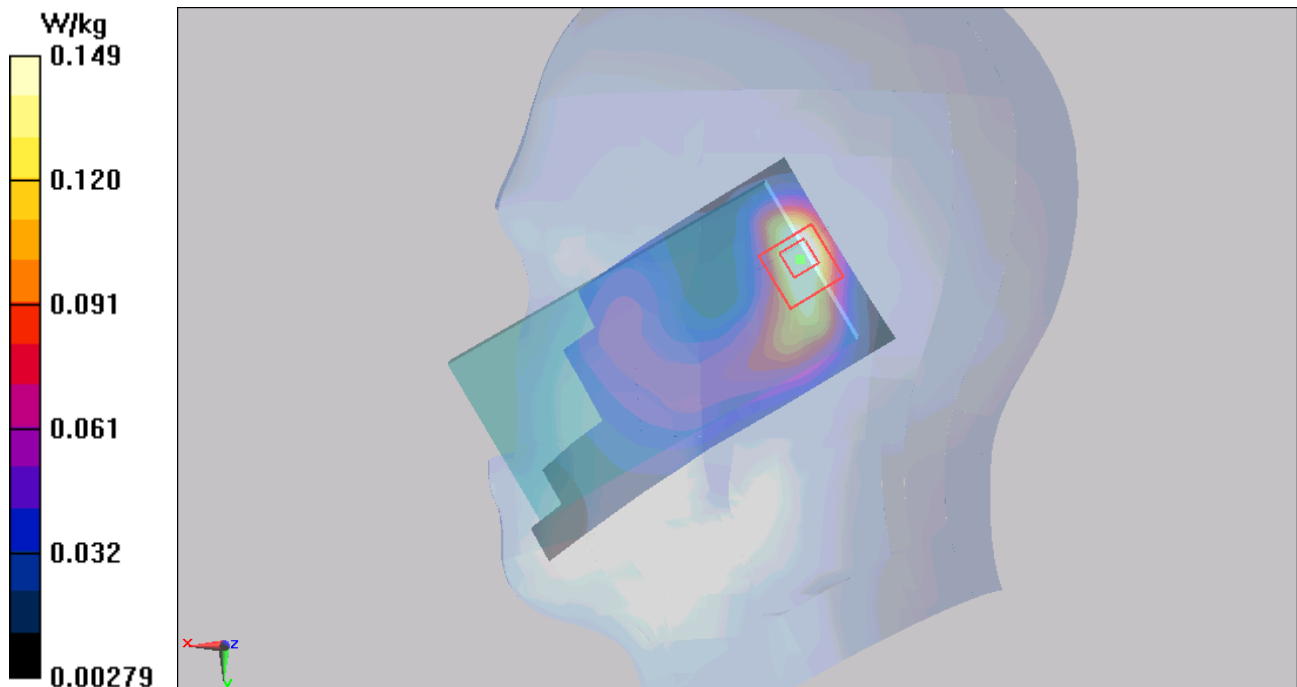


Figure 105 Right Hand Tilt 15° GSM 1900 DTM Channel 810

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GSM 1900 DTM Right Tilt Middle

Date/Time: 2/21/2014 6:13:30 PM

Communication System: DTM GPRS 2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.228 W/kg

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

Reference Value = 12.497 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.194 W/kg

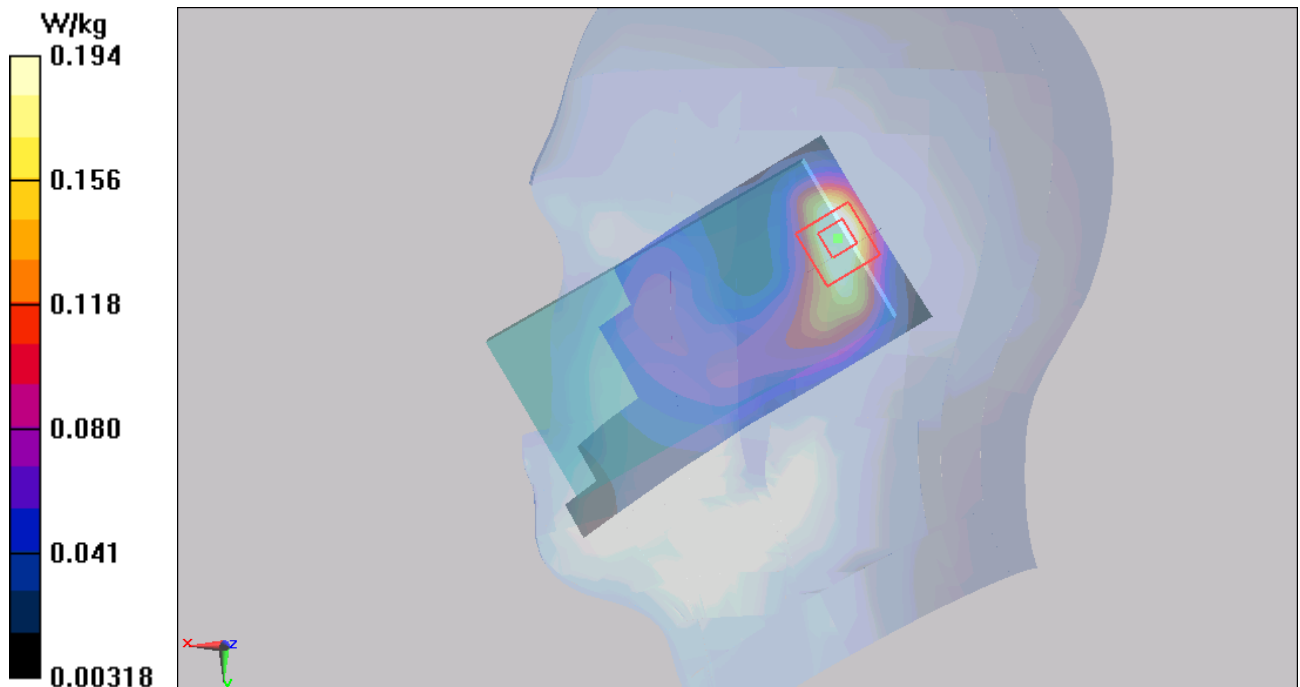


Figure 106 Right Hand Tilt 15° GSM 1900 DTM Channel 661

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GSM 1900 DTM Right Tilt Low

Date/Time: 2/21/2014 5:48:46 PM

Communication System:GPRS 3TX (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.76694

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.249 W/kg

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

Reference Value = 13.467 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.367 W/kg

SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.123 W/kg

Maximum value of SAR (measured) = 0.217 W/kg

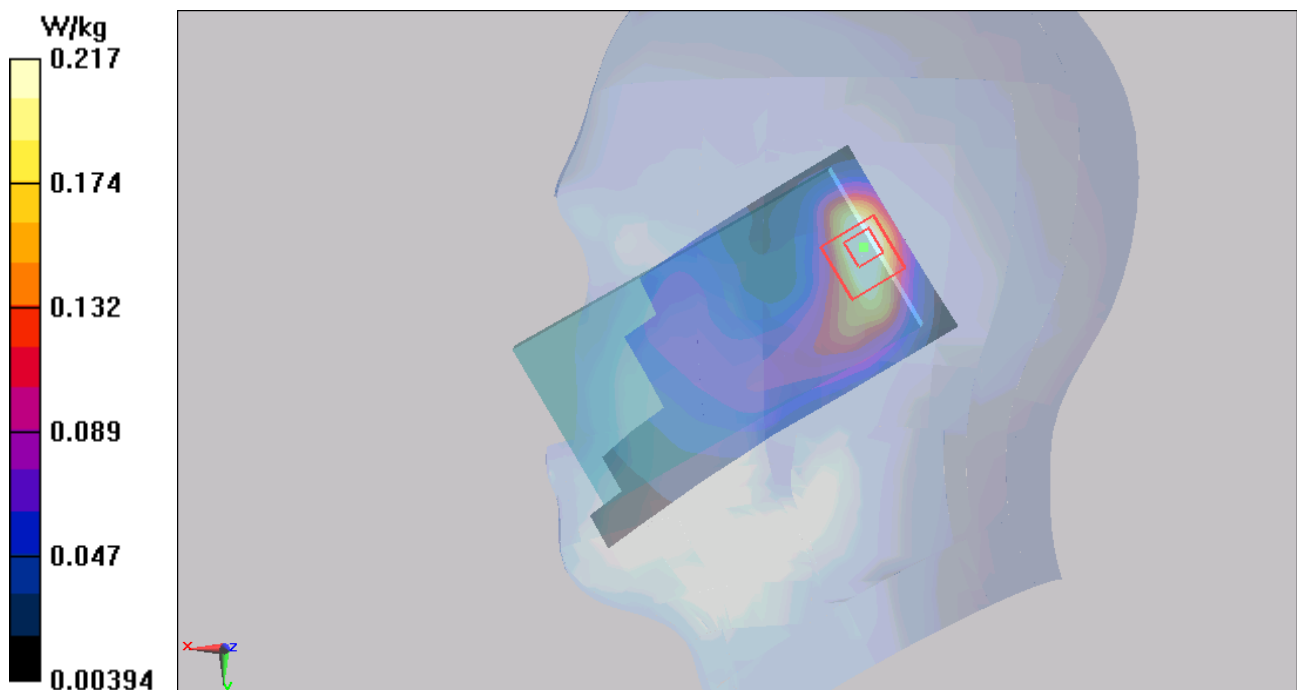


Figure 107 Right Hand Tilt 15° GSM 1900 DTM Channel 512

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GSM 1900 DTM Right Cheek Low(Battery 2)

Date/Time: 2/21/2014 6:26:22 PM

Communication System:GPRS 3TX (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.76694

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 39.813$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.575 W/kg

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

Reference Value = 8.368 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.515 W/kg; SAR(10 g) = 0.317 W/kg

Maximum value of SAR (measured) = 0.518 W/kg

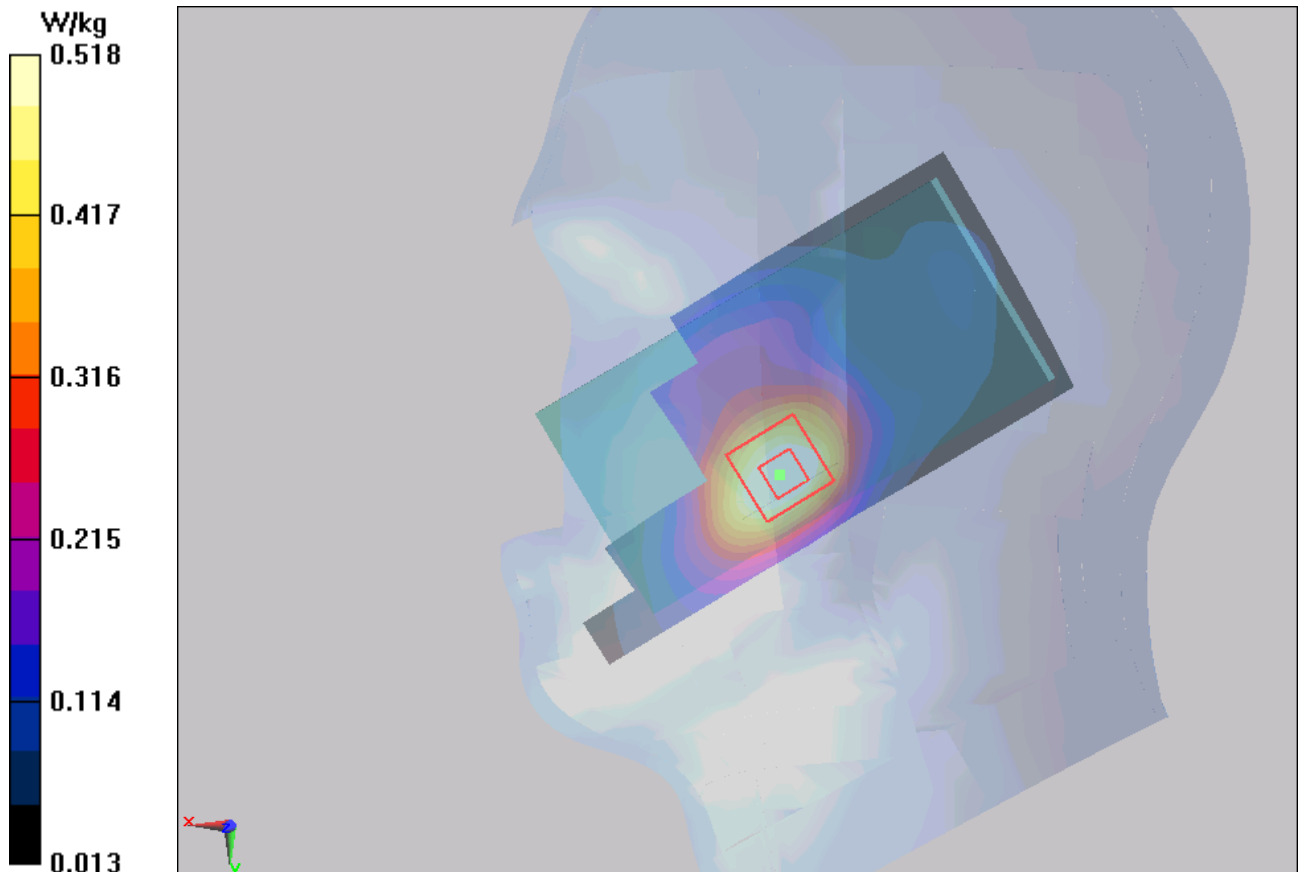


Figure 108 Right Hand Touch Cheek GSM 1900 DTM Channel 512

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GSM 1900 DTM GPRS (3Txslots) Back Side High

Date/Time: 2/20/2014 7:12:16 PM

Communication System: GPRS 3TX (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.535$ S/m; $\epsilon_r = 52.981$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

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

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

Reference Value = 9.215 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.387 W/kg

Maximum value of SAR (measured) = 0.691 W/kg

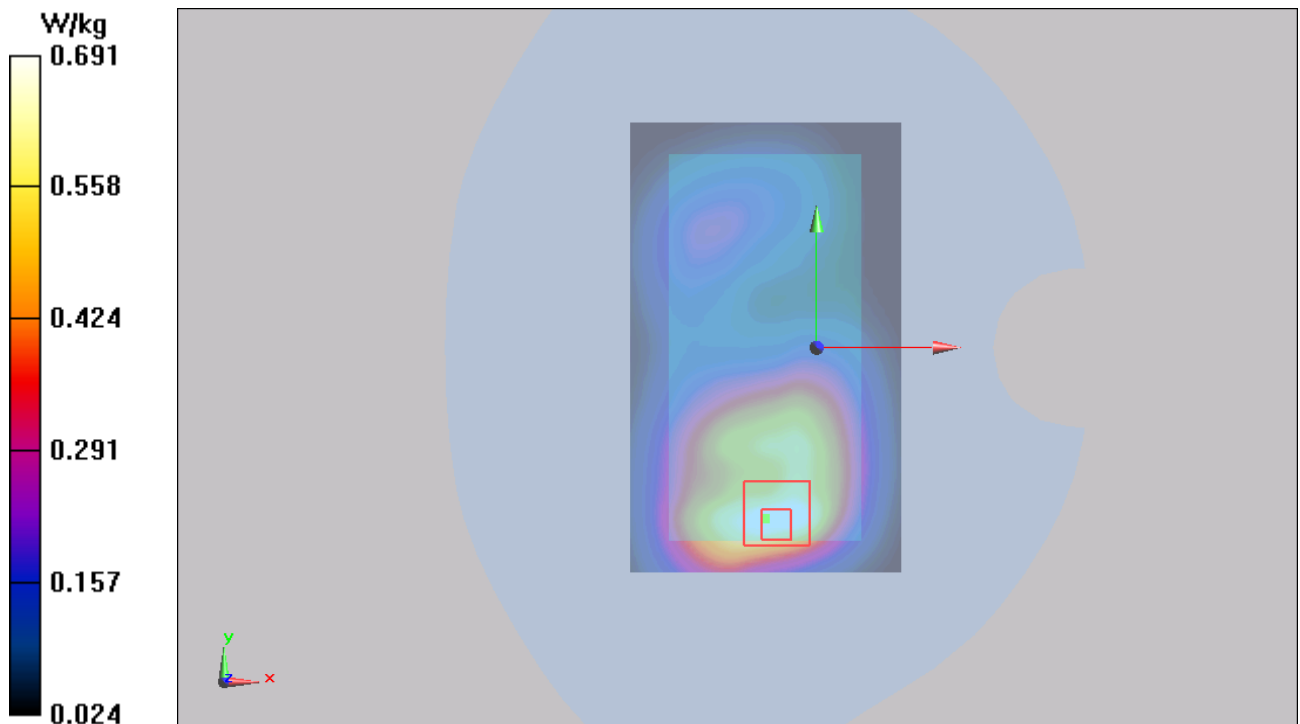


Figure 109 Body, Back Side, GSM 1900 DTM GPRS (3Txslots) Channel 810

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GSM 1900 DTM GPRS (3Txslots) Back Side Middle

Date/Time: 2/20/2014 8:51:16 PM

Communication System:GPRS 3TX (0); Frequency: 1880 MHz;Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.842 W/kg

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

Reference Value = 10.354 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.759 W/kg; SAR(10 g) = 0.478 W/kg

Maximum value of SAR (measured) = 0.791 W/kg

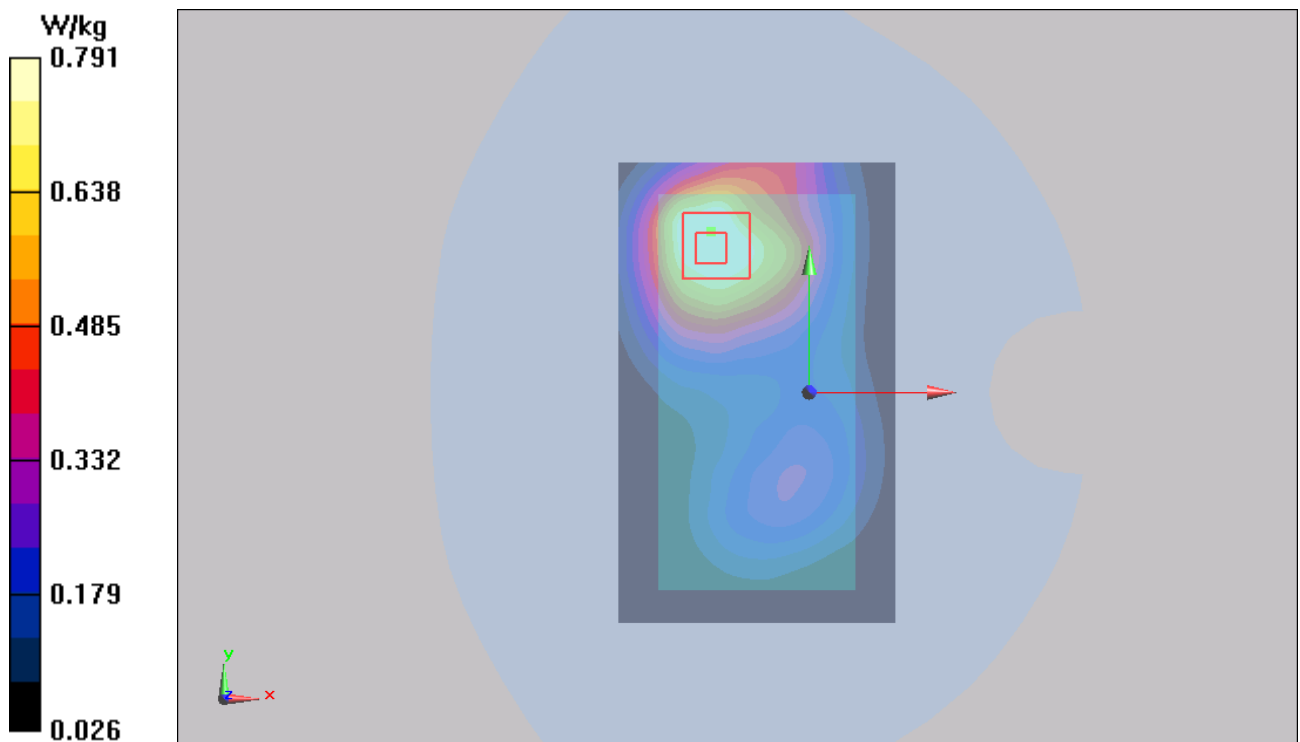


Figure 110 Body, Back Side, GSM 1900 DTM GPRS (3Txslots) Channel 661

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GSM 1900 DTM GPRS (3Txslots) Back Side Low

Date/Time: 2/20/2014 7:31:59 PM

Communication System:GPRS 3TX (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.76694

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.476$ S/m; $\epsilon_r = 53.266$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.870 W/kg

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

Reference Value = 9.399 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.748 W/kg; SAR(10 g) = 0.470 W/kg

Maximum value of SAR (measured) = 0.790 W/kg

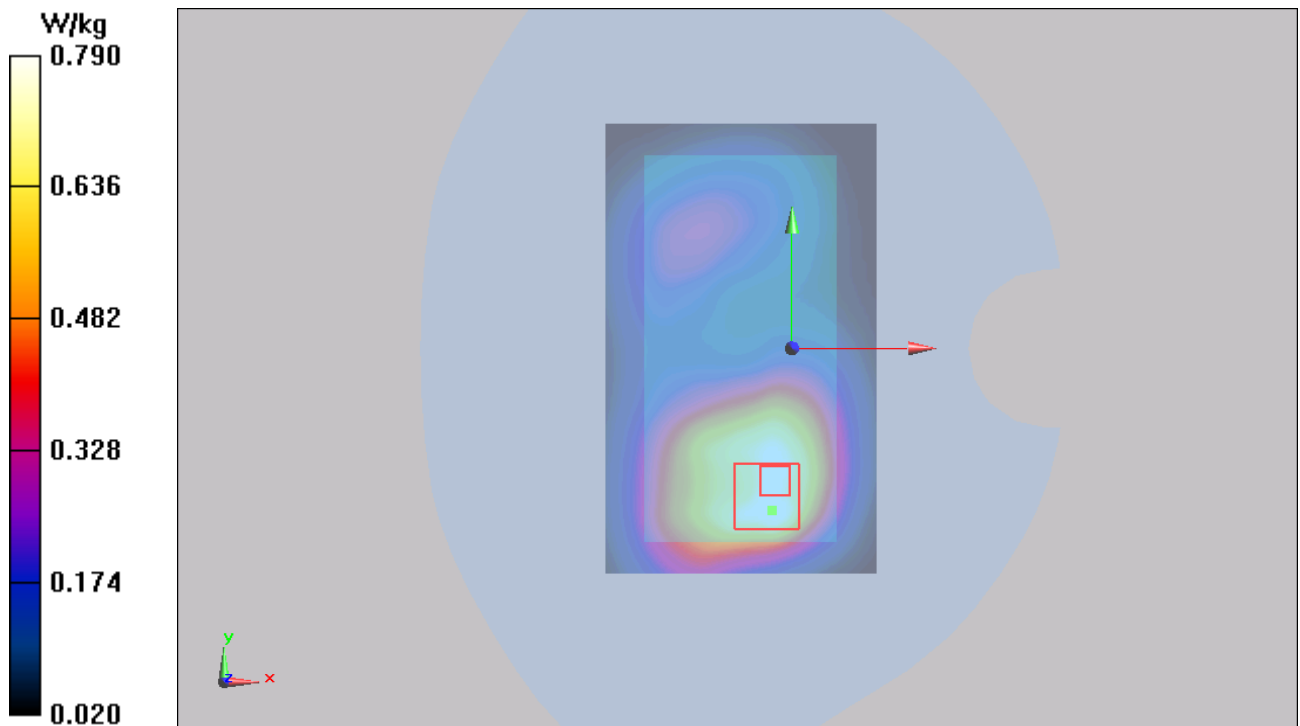


Figure 111 Body, Back Side, GSM 1900 DTM GPRS (3Txslots) Channel 512

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GSM 1900 DTM GPRS (3Txslots) Front Side High

Date/Time: 2/20/2014 7:58:21 PM

Communication System: GPRS 3TX (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.535$ S/m; $\epsilon_r = 52.981$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.665 W/kg

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

Reference Value = 9.782 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.978 W/kg

SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.407 W/kg

Maximum value of SAR (measured) = 0.671 W/kg

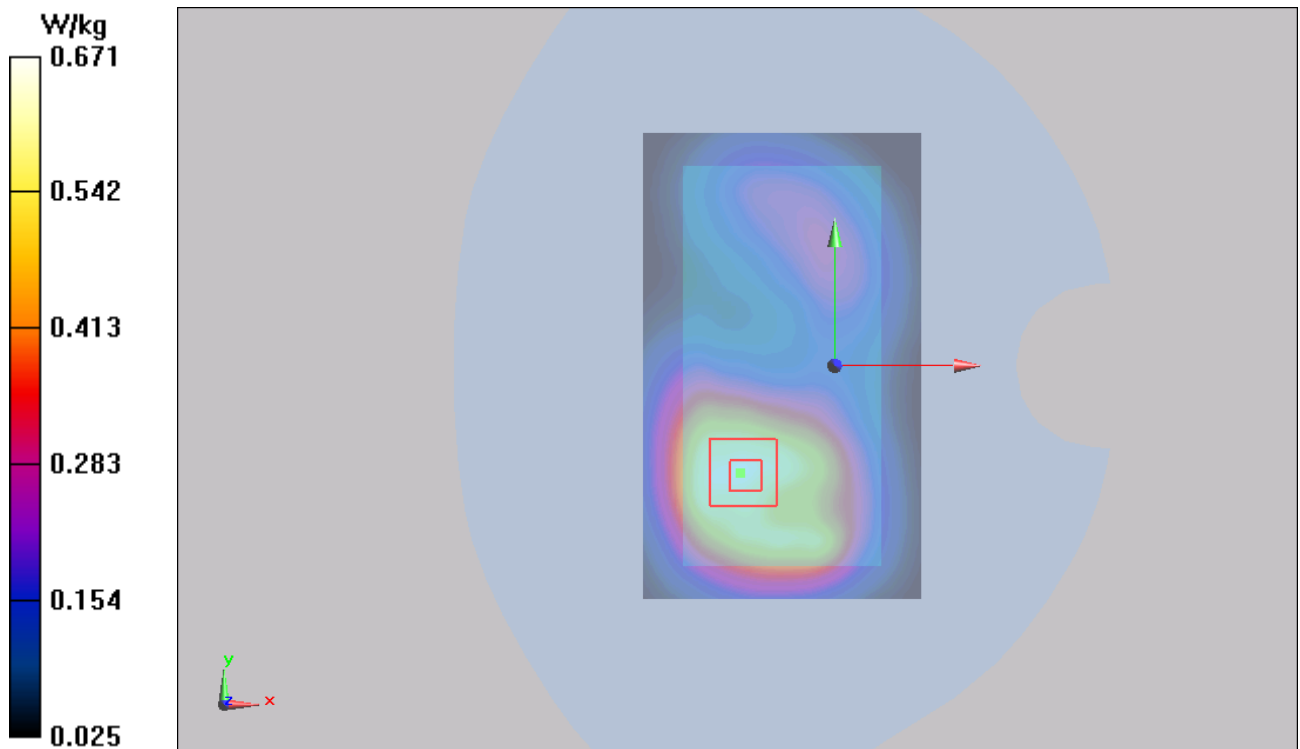


Figure 112 Body, Front Side, GSM 1900 DTM GPRS (3Txslots) Channel 810

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GSM 1900 DTM GPRS (3Txslots) Front Side Middle

Date/Time: 2/20/2014 9:05:57 PM

Communication System: GPRS 3TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.828 W/kg

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

Reference Value = 10.252 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.464 W/kg

Maximum value of SAR (measured) = 0.787 W/kg

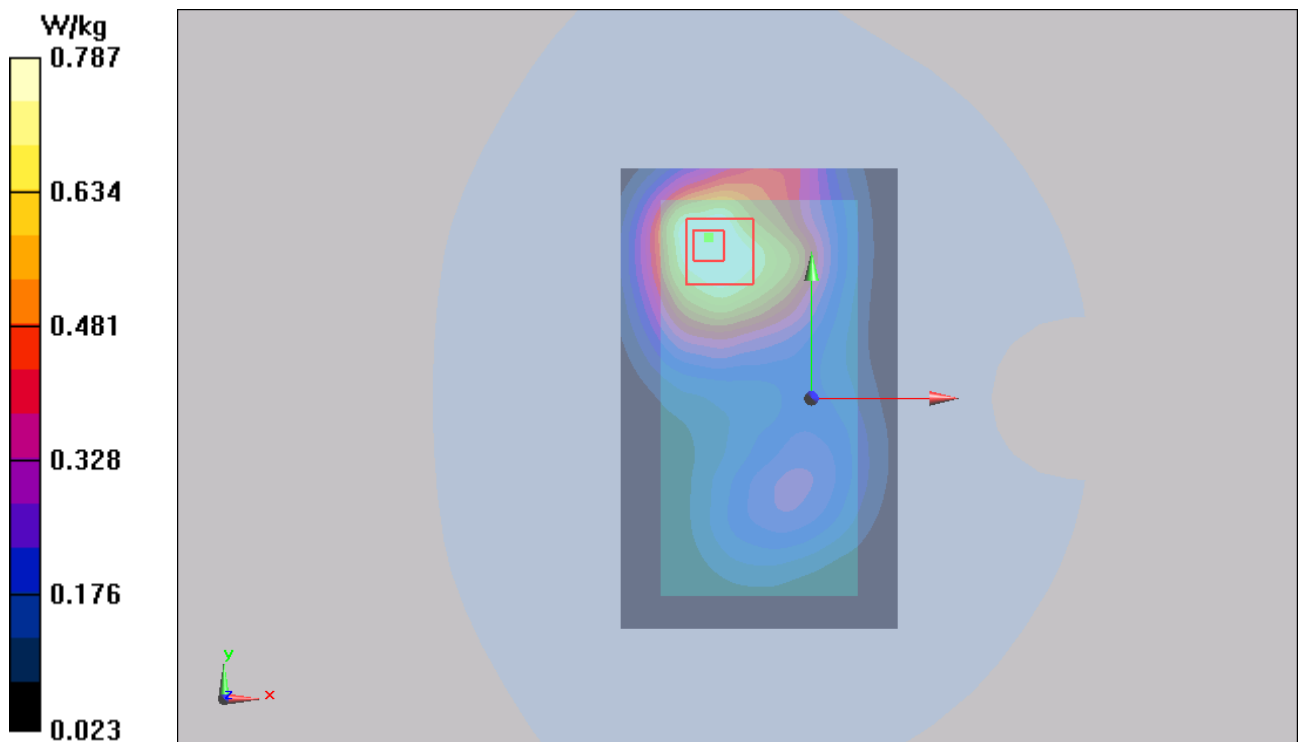


Figure 113 Body, Front Side, GSM 1900 DTM GPRS (3Txslots) Channel 661

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GSM 1900 DTM GPRS (3Txslots) Front Side Low

Date/Time: 2/20/2014 8:23:57 PM

Communication System: GPRS 3TX (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.76694

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.476$ S/m; $\epsilon_r = 53.266$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

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

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

Reference Value = 10.202 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.452 W/kg

Maximum value of SAR (measured) = 0.765 W/kg

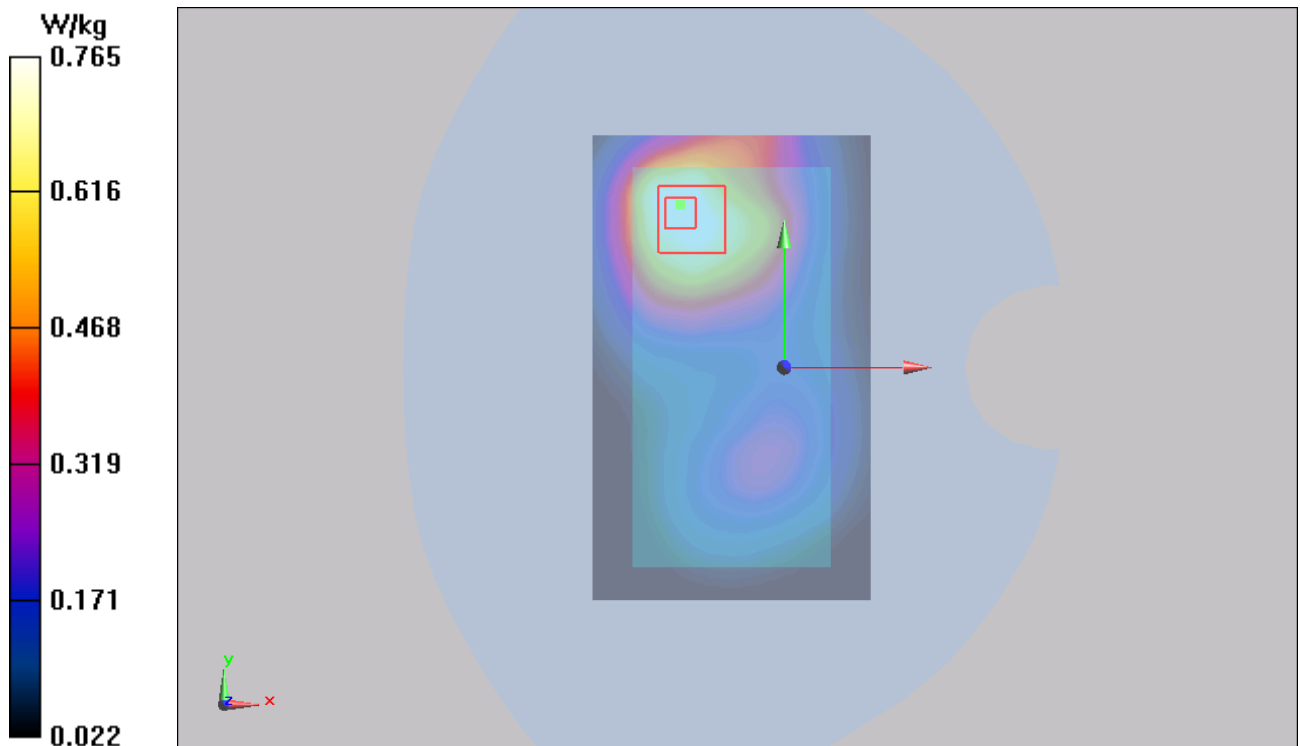


Figure 114 Body, Front Side, GSM 1900 DTM GPRS (3Txslots) Channel 512

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GSM 1900 DTM GPRS (3Txslots) Left Edge Middle

Date/Time: 2/20/2014 9:49:44 PM

Communication System: GPRS 3TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Left Edge Middle /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.173 W/kg

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

Reference Value = 8.214 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.256 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 0.167 W/kg

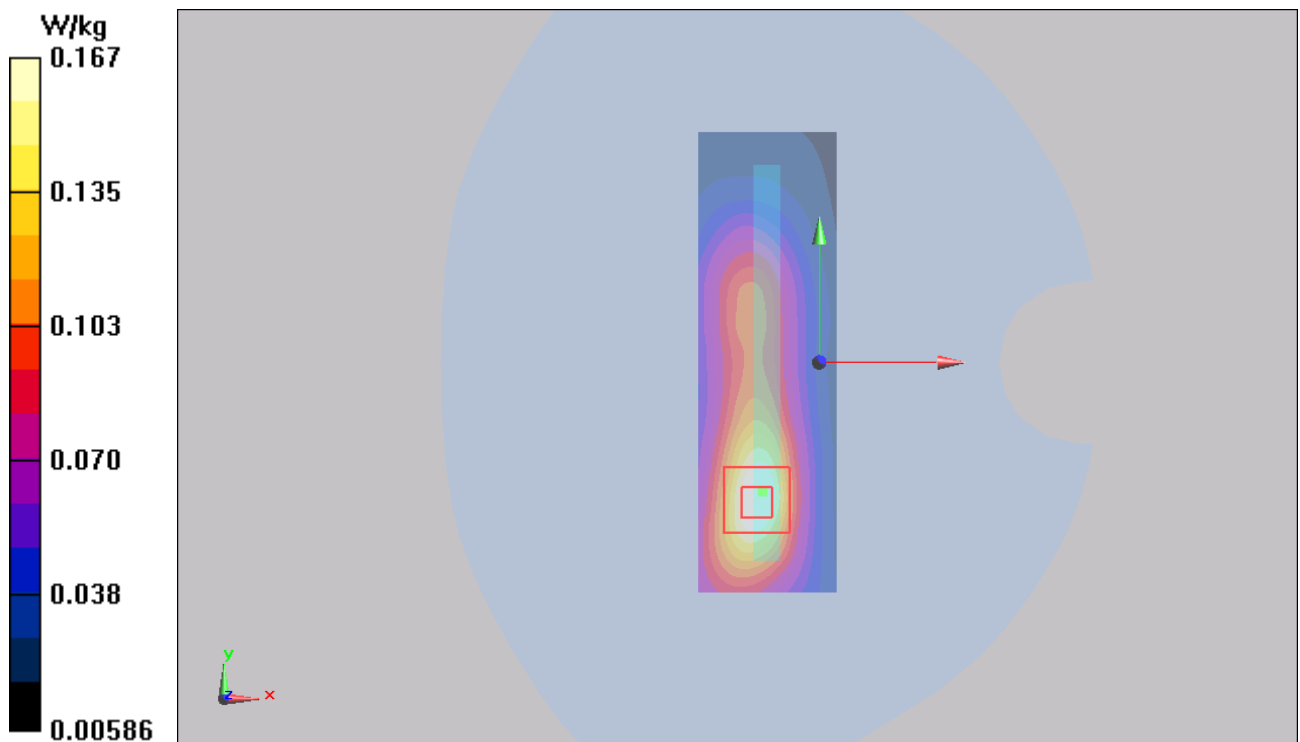


Figure 115 Body, Left Edge, GSM 1900 DTM GPRS (3Txslots) Channel 661

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GSM 1900 DTM GPRS (3Txslots) Right Edge Middle

Date/Time: 2/20/2014 10:08:01 PM

Communication System: GPRS 3TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Right Edge Middle /Area Scan (31x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.192 W/kg

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

Reference Value = 7.392 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.111 W/kg

Maximum value of SAR (measured) = 0.188 W/kg

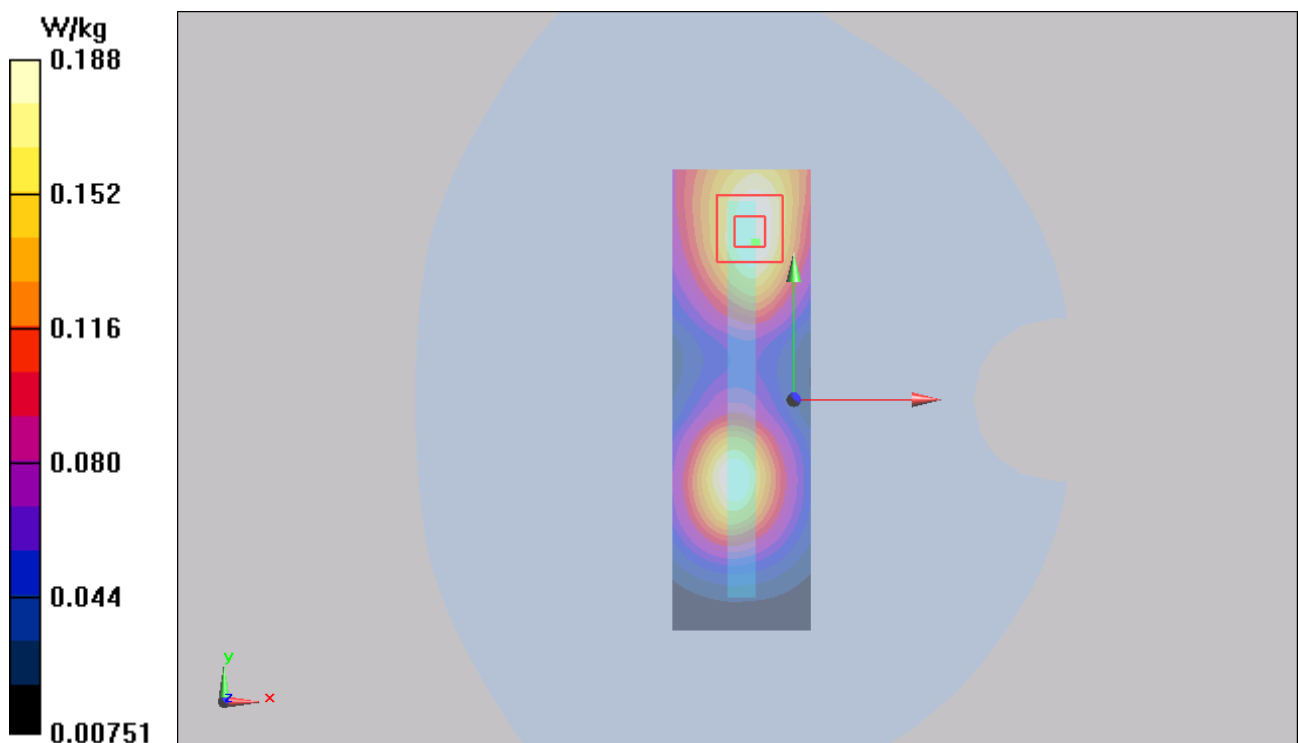


Figure 116 Body, Right Edge, GSM 1900 DTM GPRS (3Txslots) Channel 661

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GSM 1900 DTM GPRS (3Txslots) Bottom Edge Middle

Date/Time: 2/20/2014 10:21:33 PM

Communication System: GPRS 3TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Bottom Edge Middle /Area Scan (31x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.657 W/kg

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

Reference Value = 18.753 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.629 W/kg; SAR(10 g) = 0.347 W/kg

Maximum value of SAR (measured) = 0.676 W/kg

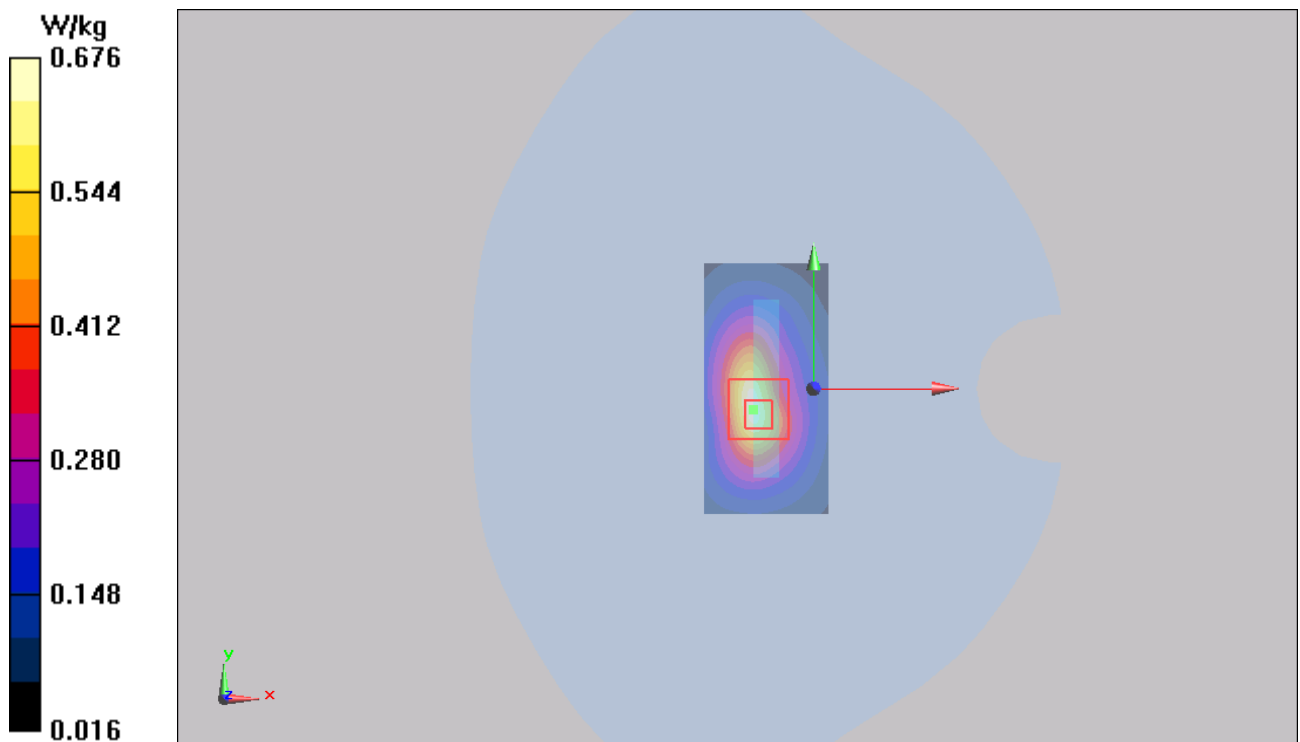


Figure 117 Body, Bottom Edge, GSM 1900 DTM GPRS (3Txslots) Channel 661

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GSM 1900 DTM GPRS (3Txslots) Back Side Middle(Battery 2)

Date/Time: 2/20/2014 10:33:57 PM

Communication System:GPRS 3TX (0); Frequency: 1880 MHz;Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (interpolated) = 0.895 W/kg

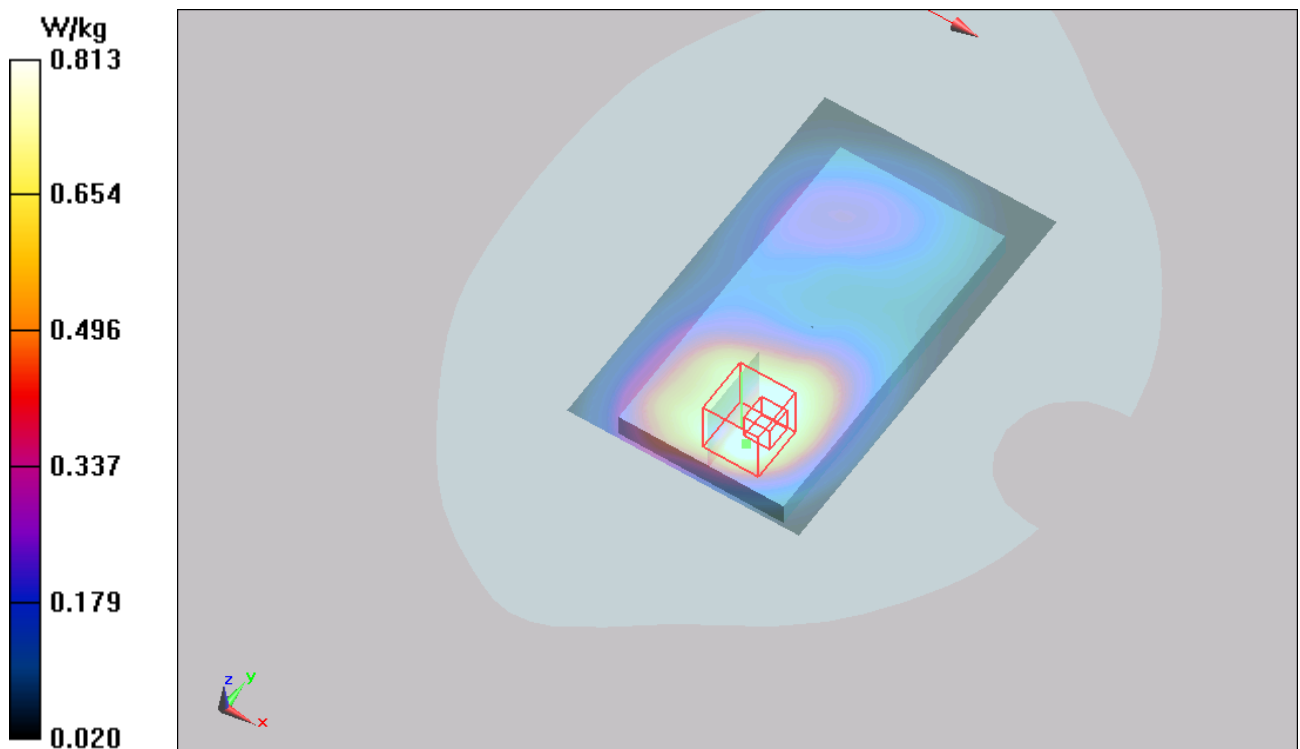
Back Side Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.445 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.769 W/kg; SAR(10 g) = 0.483 W/kg

Maximum value of SAR (measured) = 0.813 W/kg



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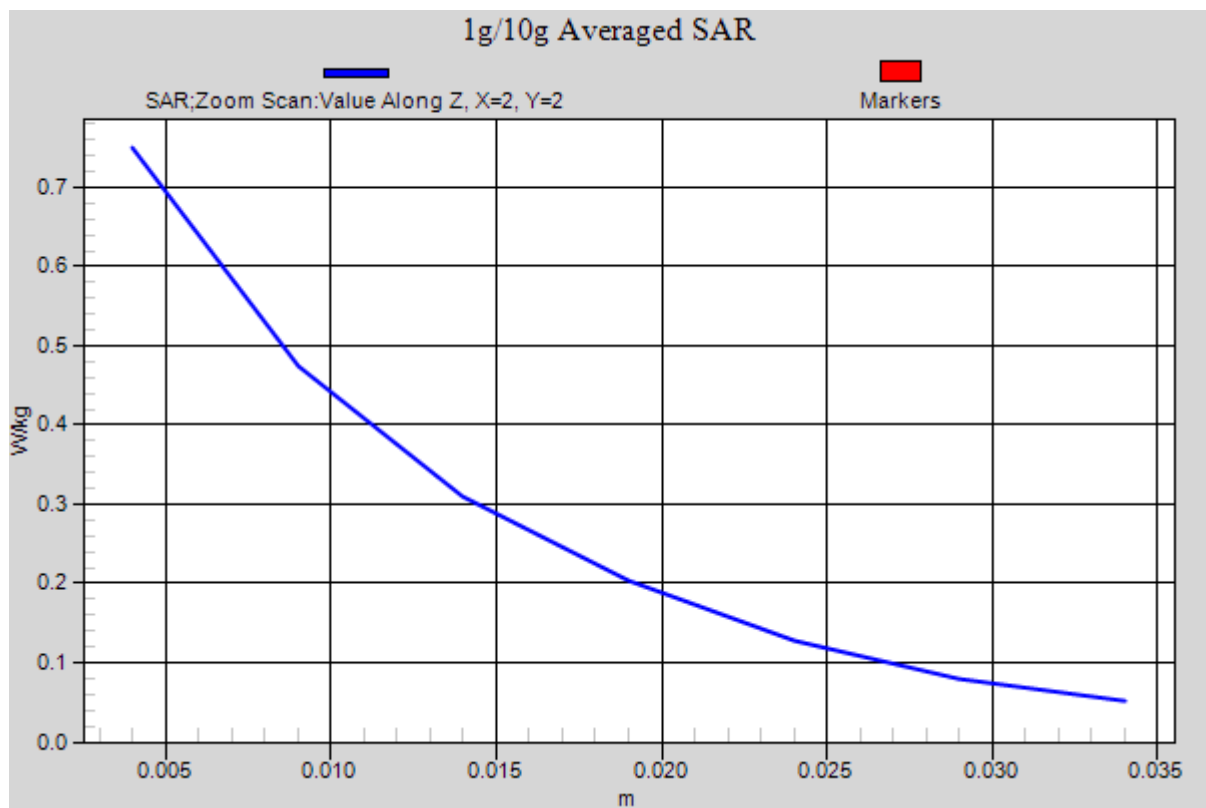


Figure 118 Body, Back Side, GSM 1900 DTM GPRS (3Txslots) Channel 661

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UMTS Band II Left Cheek High

Date/Time: 2/21/2014 11:06:07 PM

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

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.438$ mho/m; $\epsilon_r = 39.572$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.382 W/kg

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

Reference Value = 6.413 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.558 mW/g

SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.371 W/kg

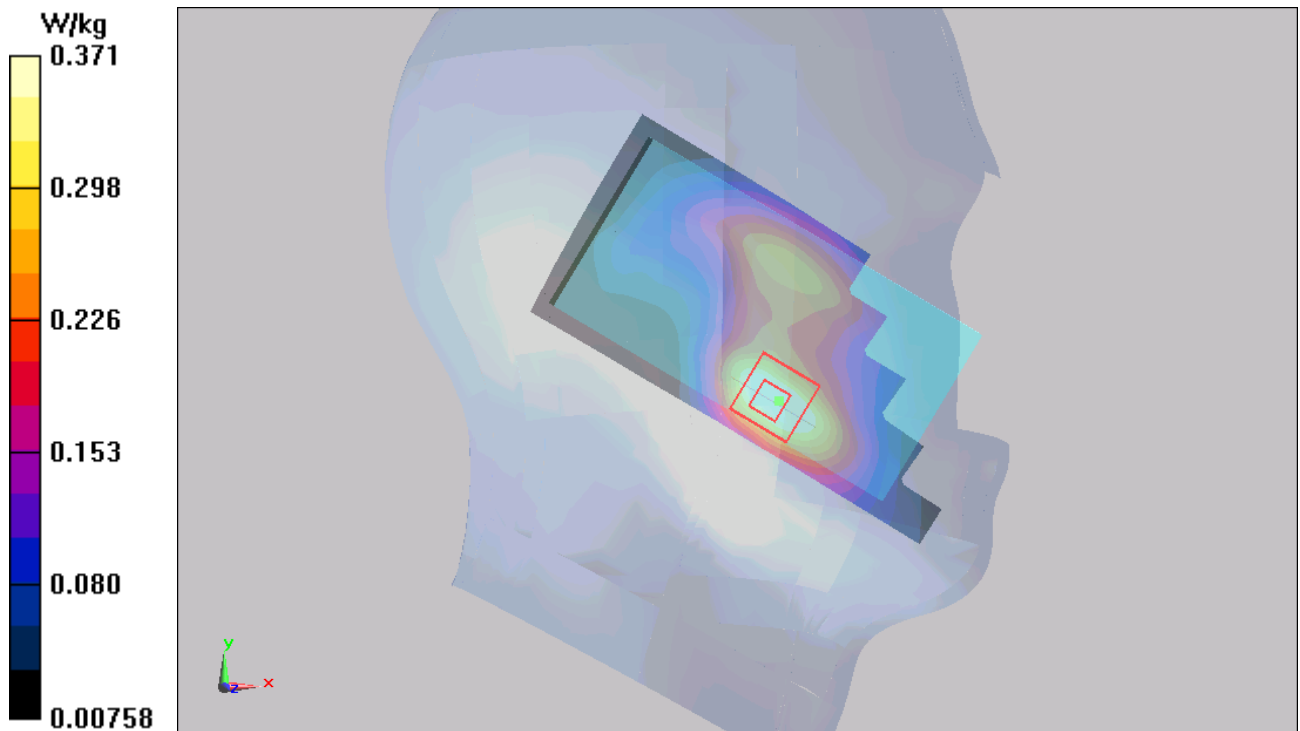


Figure 119 Left Hand Touch Cheek UMTS Band II Channel 9538

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UMTS Band II Left Cheek Middle

Date/Time: 2/21/2014 11:21:42 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.500 W/kg

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

Reference Value = 7.244 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.729 mW/g

SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.277 mW/g

Maximum value of SAR (measured) = 0.501 W/kg

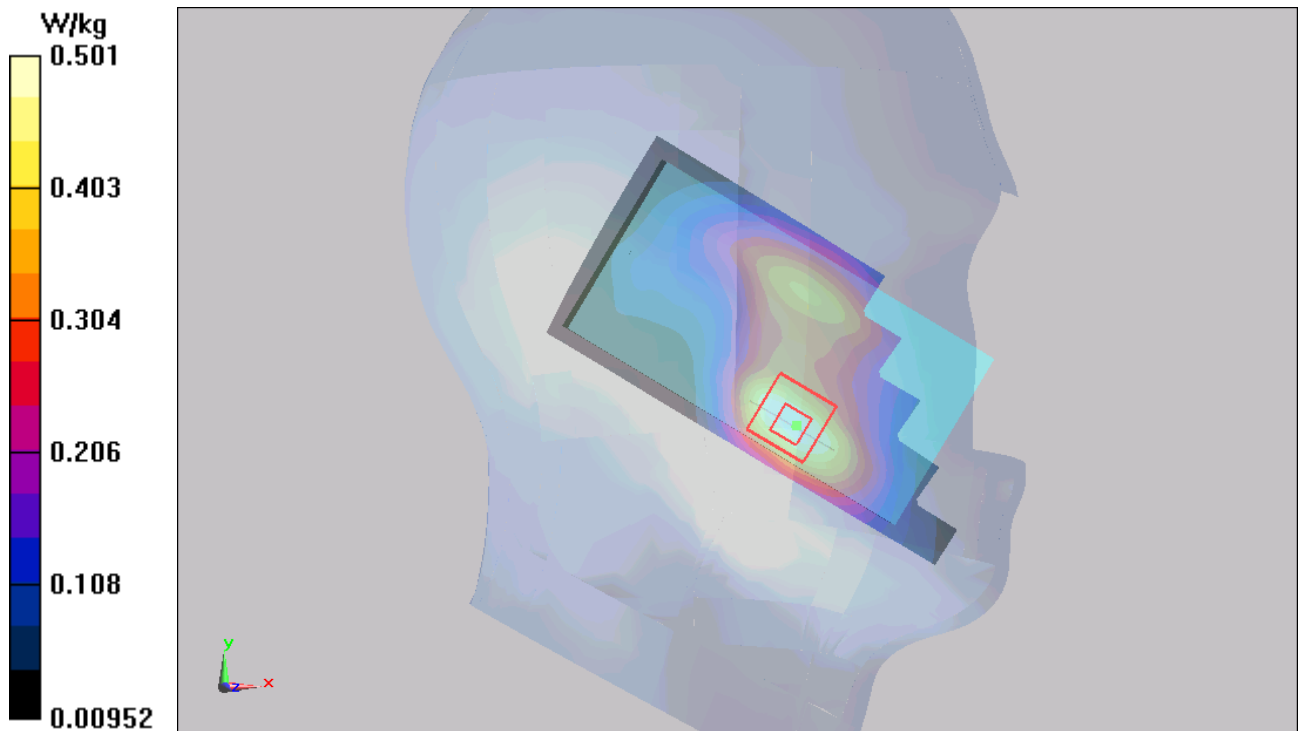


Figure 120 Left Hand Touch Cheek UMTS Band II Channel 9400

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UMTS Band II Left Cheek Low

Date/Time: 2/21/2014 10:50:34 PM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.389$ mho/m; $\epsilon_r = 39.803$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.621 W/kg

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

Reference Value = 7.996 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.843 mW/g

SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.328 mW/g

Maximum value of SAR (measured) = 0.580 W/kg

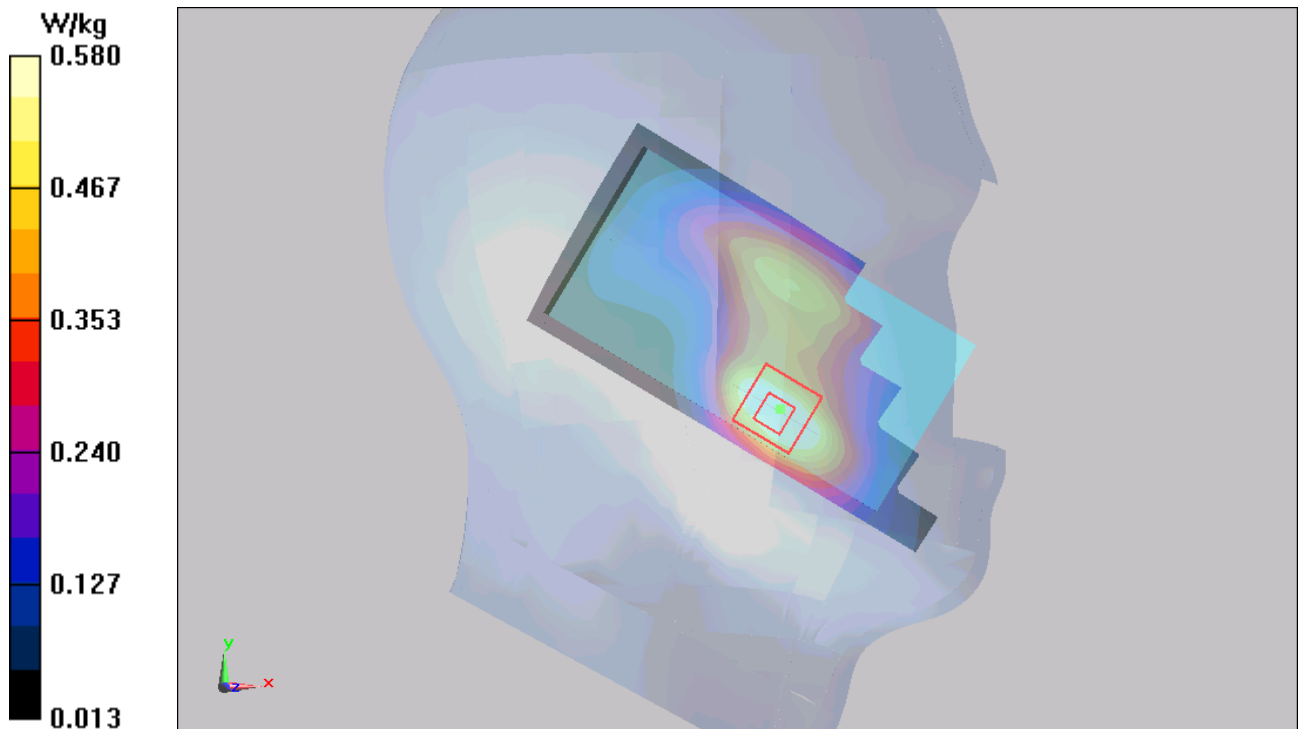


Figure 121 Left Hand Touch Cheek UMTS Band II Channel 9262

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UMTS Band II Left Tilt High

Date/Time: 2/22/2014 12:03:18 AM

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

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.438$ mho/m; $\epsilon_r = 39.572$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.321 W/kg

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

Reference Value = 11.007 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.281 mW/g

SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.189 W/kg

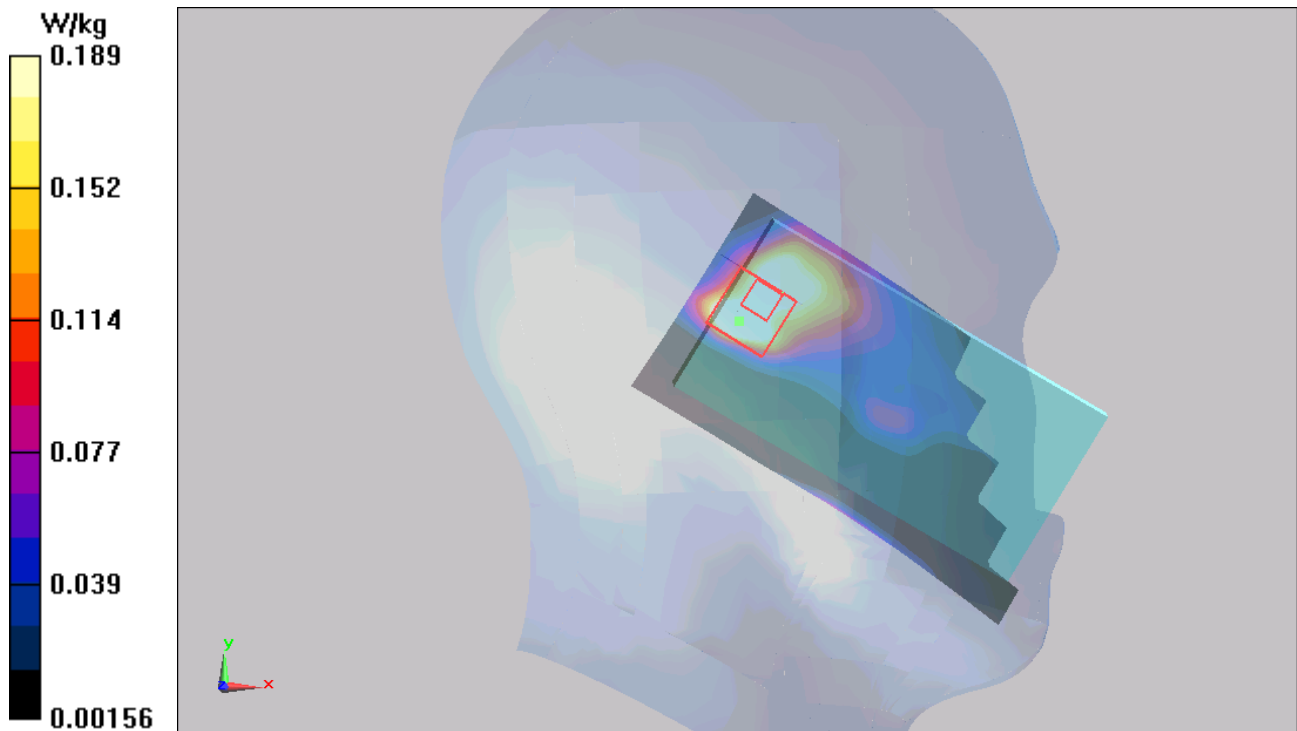


Figure 122 Left Hand Tilt 15° UMTS Band II Channel 9538

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UMTS Band II Left Tilt Middle

Date/Time: 2/21/2014 11:45:22 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.312 W/kg

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

Reference Value = 12.843 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.400 mW/g

SAR(1 g) = 0.254 mW/g; SAR(10 g) = 0.156 mW/g

Maximum value of SAR (measured) = 0.268 W/kg

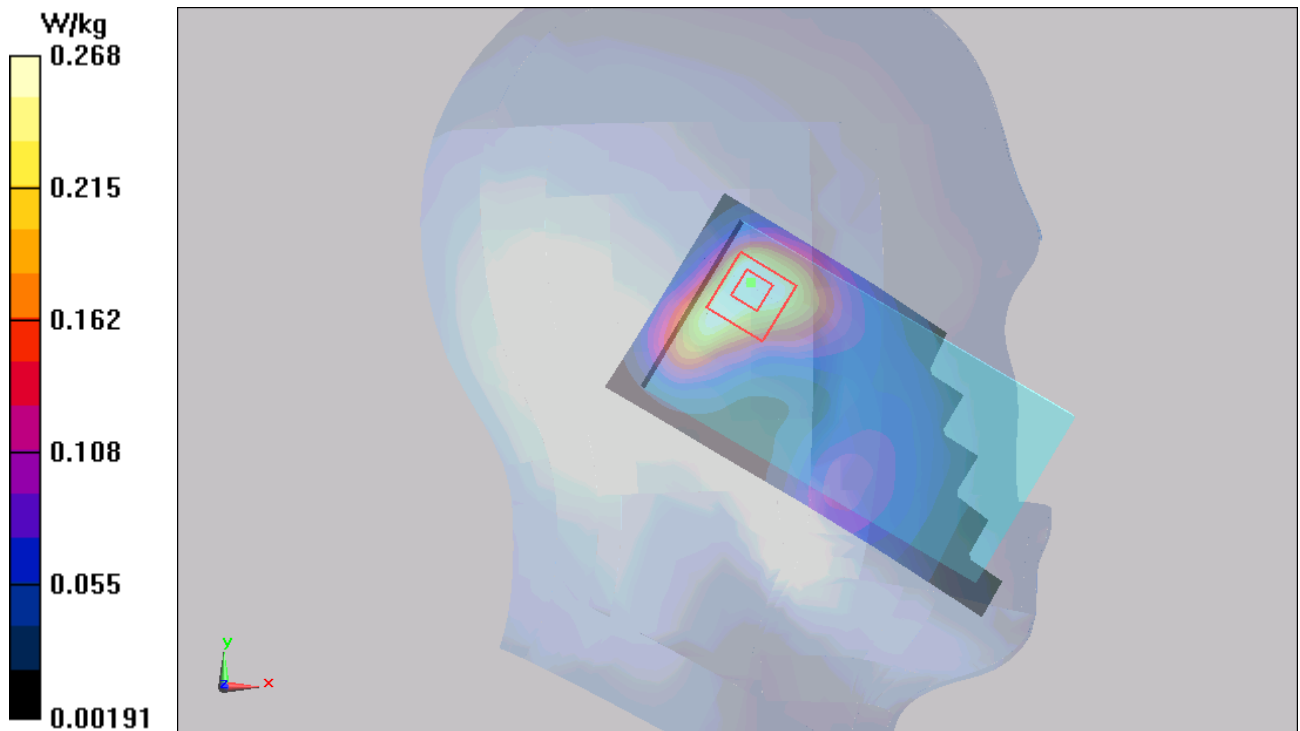


Figure 123 Left Hand Tilt 15° UMTS Band II Channel 9400

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UMTS Band II Left Tilt Low

Date/Time: 2/22/2014 12:23:56 AM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.389$ mho/m; $\epsilon_r = 39.803$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.372 W/kg

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

Reference Value = 14.518 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.447 mW/g

SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.185 mW/g

Maximum value of SAR (measured) = 0.317 W/kg

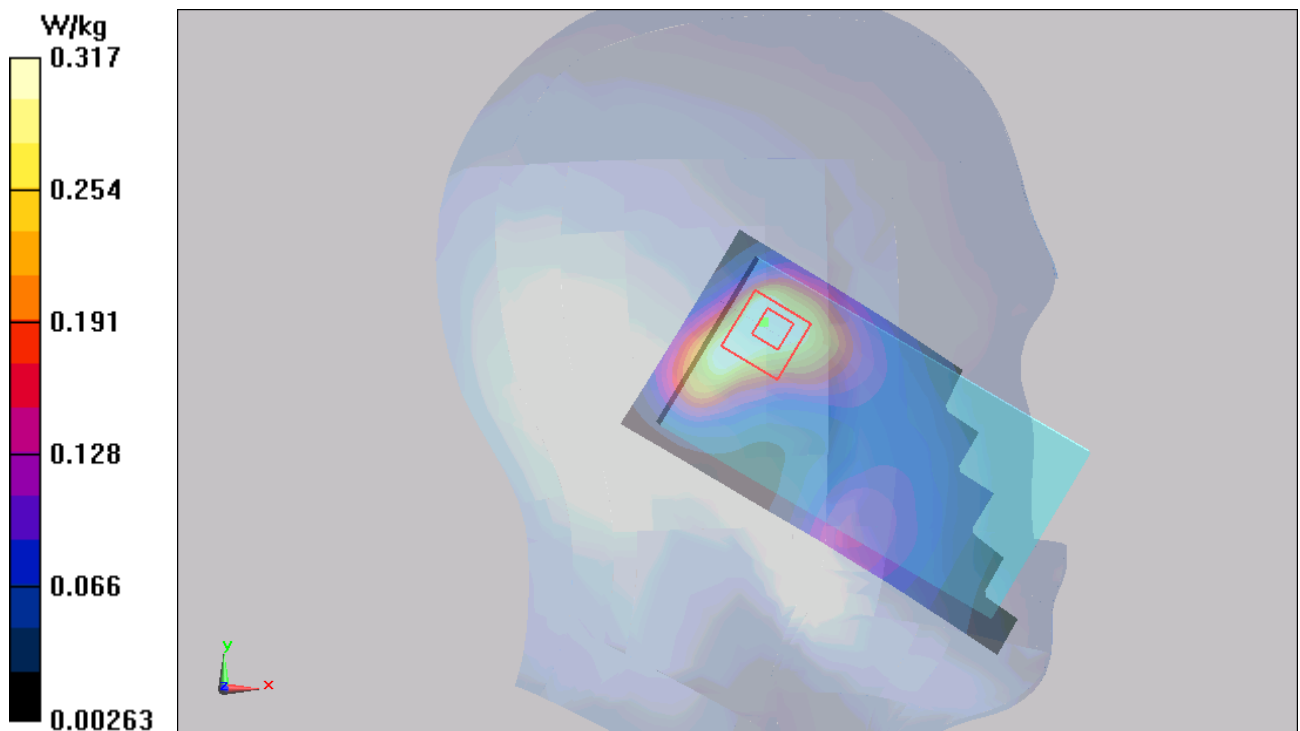


Figure 124 Left Hand Tilt 15° UMTS Band II Channel 9262

UMTS Band II Right Cheek High

Date/Time: 2/22/2014 12:59:40 AM

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

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.438$ mho/m; $\epsilon_r = 39.572$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.485 W/kg

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

Reference Value = 7.399 V/m; Power Drift = 0.049 dB

Peak SAR (extrapolated) = 0.705 mW/g

SAR(1 g) = 0.439 mW/g; SAR(10 g) = 0.262 mW/g

Maximum value of SAR (measured) = 0.483 W/kg

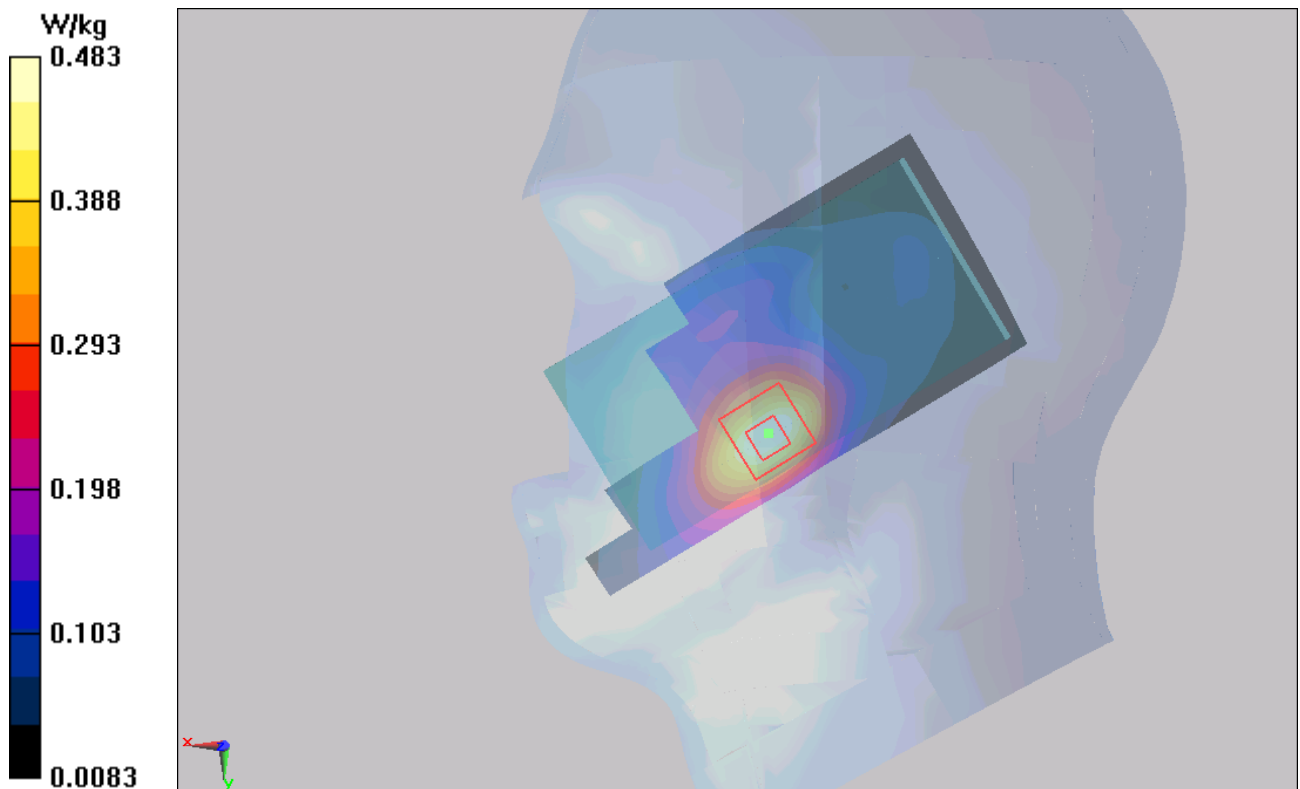


Figure 125 Right Hand Touch Cheek UMTS Band II Channel 9538

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UMTS Band II Right Cheek Middle

Date/Time: 2/22/2014 1:14:54 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.701 W/kg

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

Reference Value = 8.563 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.974 mW/g

SAR(1 g) = 0.620 mW/g; SAR(10 g) = 0.376 mW/g

Maximum value of SAR (measured) = 0.678 W/kg

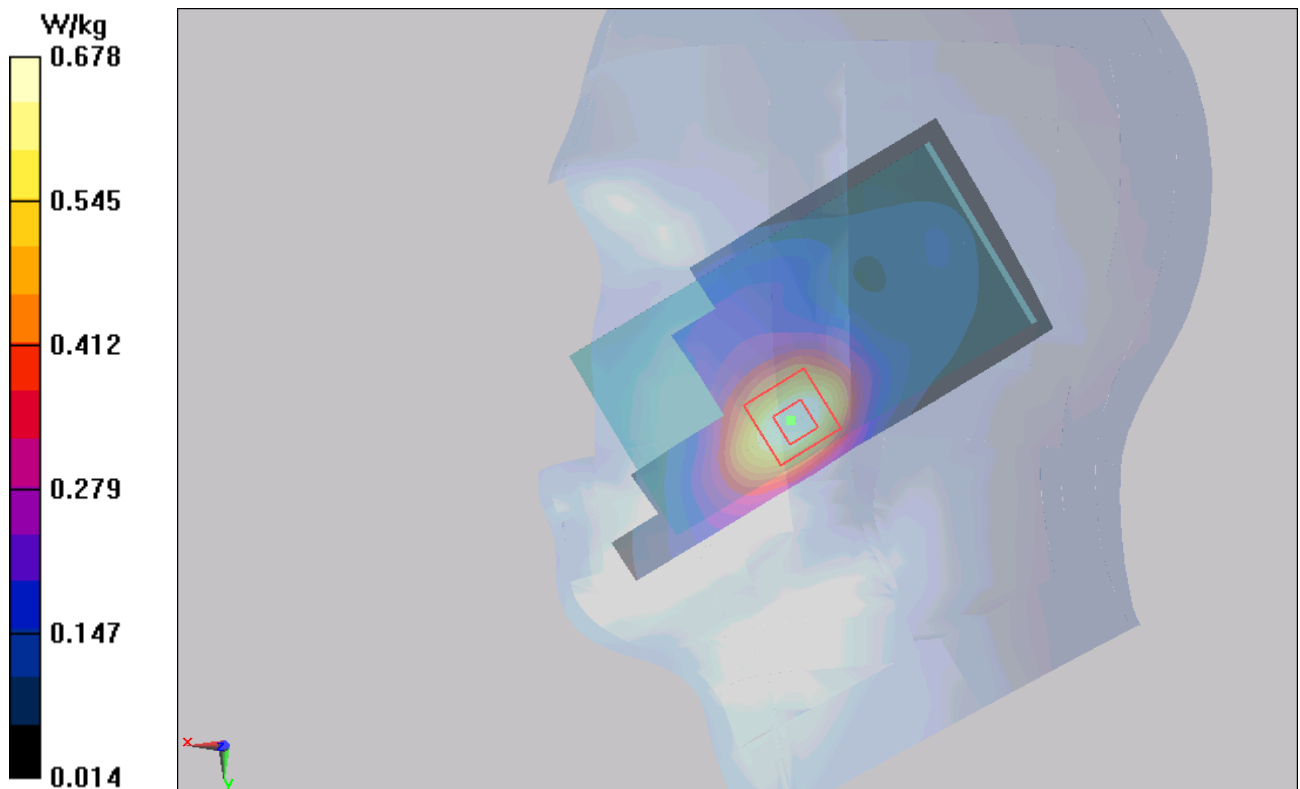


Figure 126 Right Hand Touch Cheek UMTS Band II Channel 9400

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UMTS Band II Right Cheek Low

Date/Time: 2/22/2014 12:44:31 AM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.389$ mho/m; $\epsilon_r = 39.803$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 9.391 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.185 mW/g

SAR(1 g) = 0.763 mW/g; SAR(10 g) = 0.465 mW/g

Maximum value of SAR (measured) = 0.833 W/kg

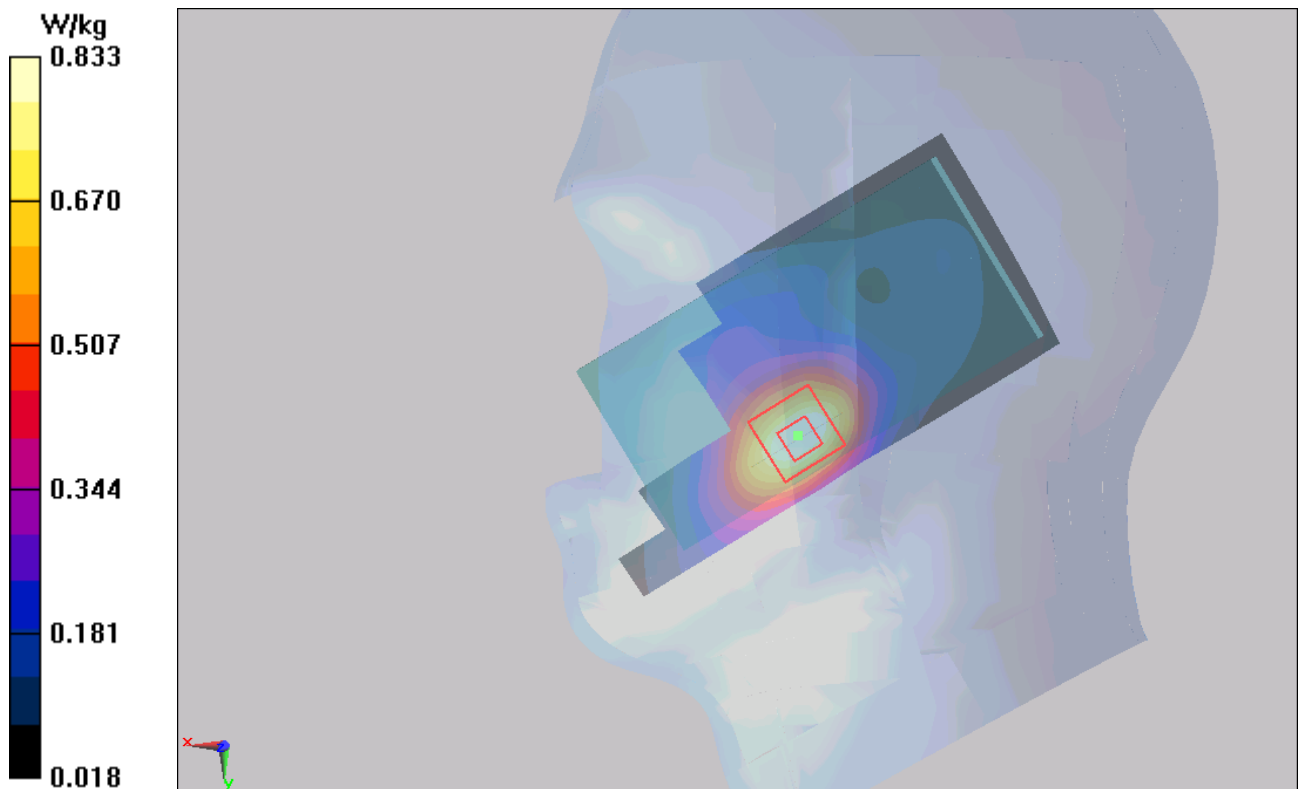


Figure 127 Right Hand Touch Cheek UMTS Band II Channel 9262

UMTS Band II Right Tilt High

Date/Time: 2/22/2014 2:31:28 AM

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

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.438$ mho/m; $\epsilon_r = 39.572$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt High h/Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.189 W/kg

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

Reference Value = 11.179 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.281 mW/g

SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.091 mW/g

Maximum value of SAR (measured) = 0.188 W/kg

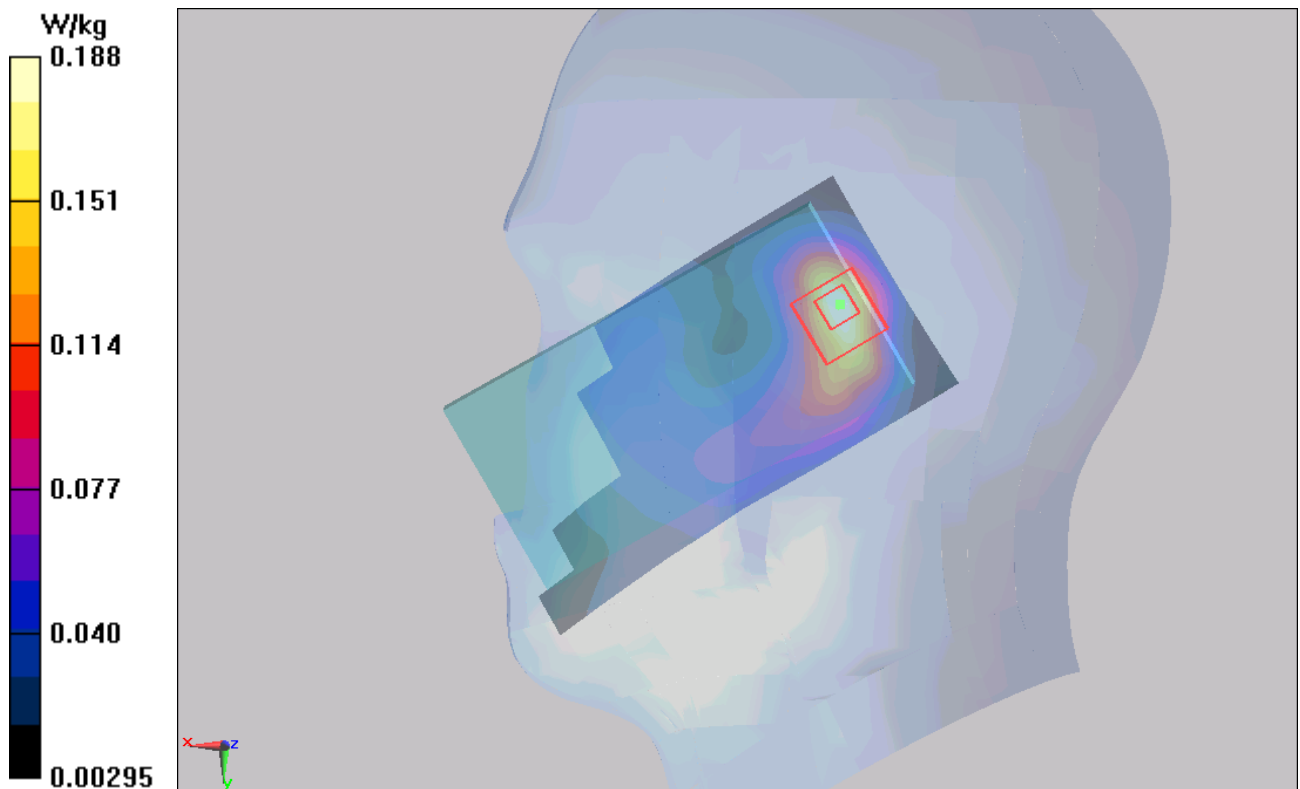


Figure 128 Right Hand Tilt 15° UMTS Band II Channel 9538

UMTS Band II Right Tilt Middle

Date/Time: 2/22/2014 2:16:24 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.274 W/kg

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

Reference Value = 13.364 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.392 mW/g

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.259 W/kg

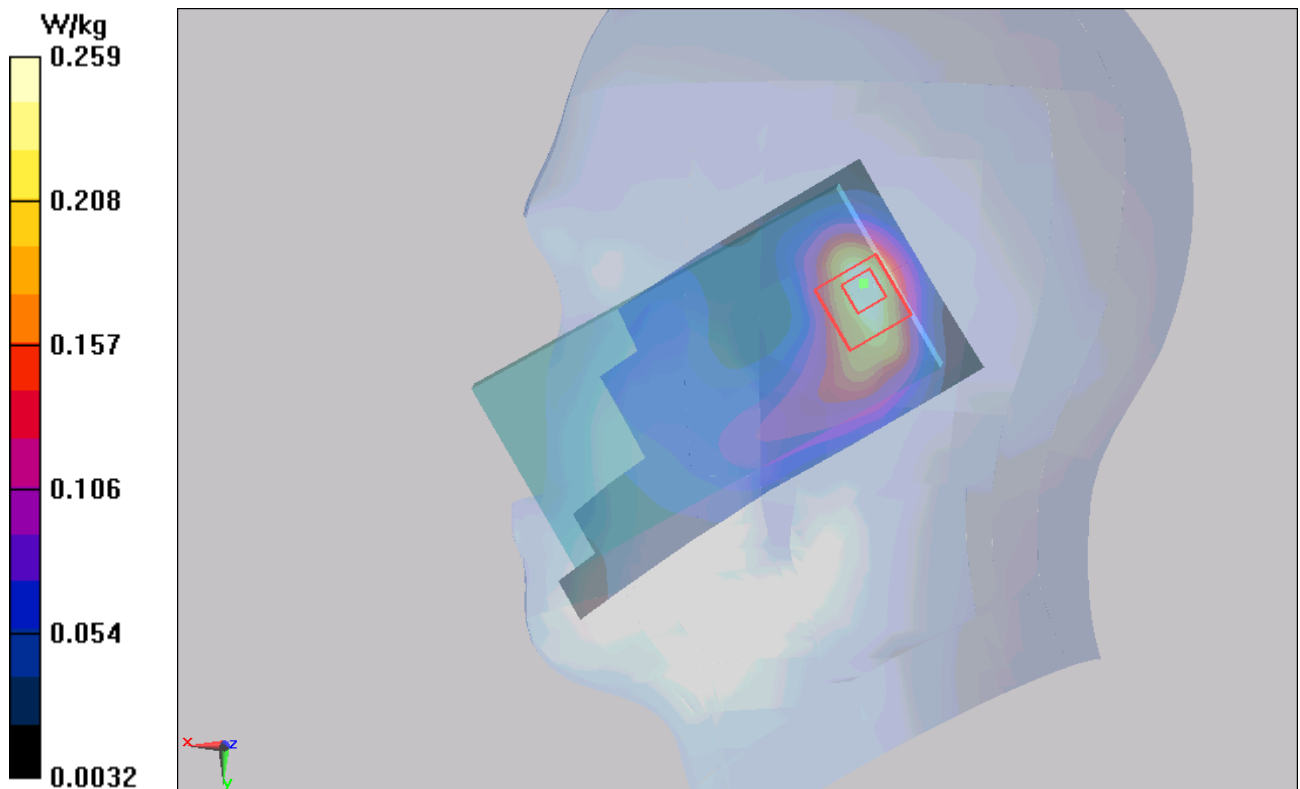


Figure 129 Right Hand Tilt 15° UMTS Band II Channel 9400

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UMTS Band II Right Tilt Low

Date/Time: 2/22/2014 2:01:17 AM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.389$ mho/m; $\epsilon_r = 39.803$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.349 W/kg

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

Reference Value = 15.184 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.506 mW/g

SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.170 mW/g

Maximum value of SAR (measured) = 0.334 W/kg

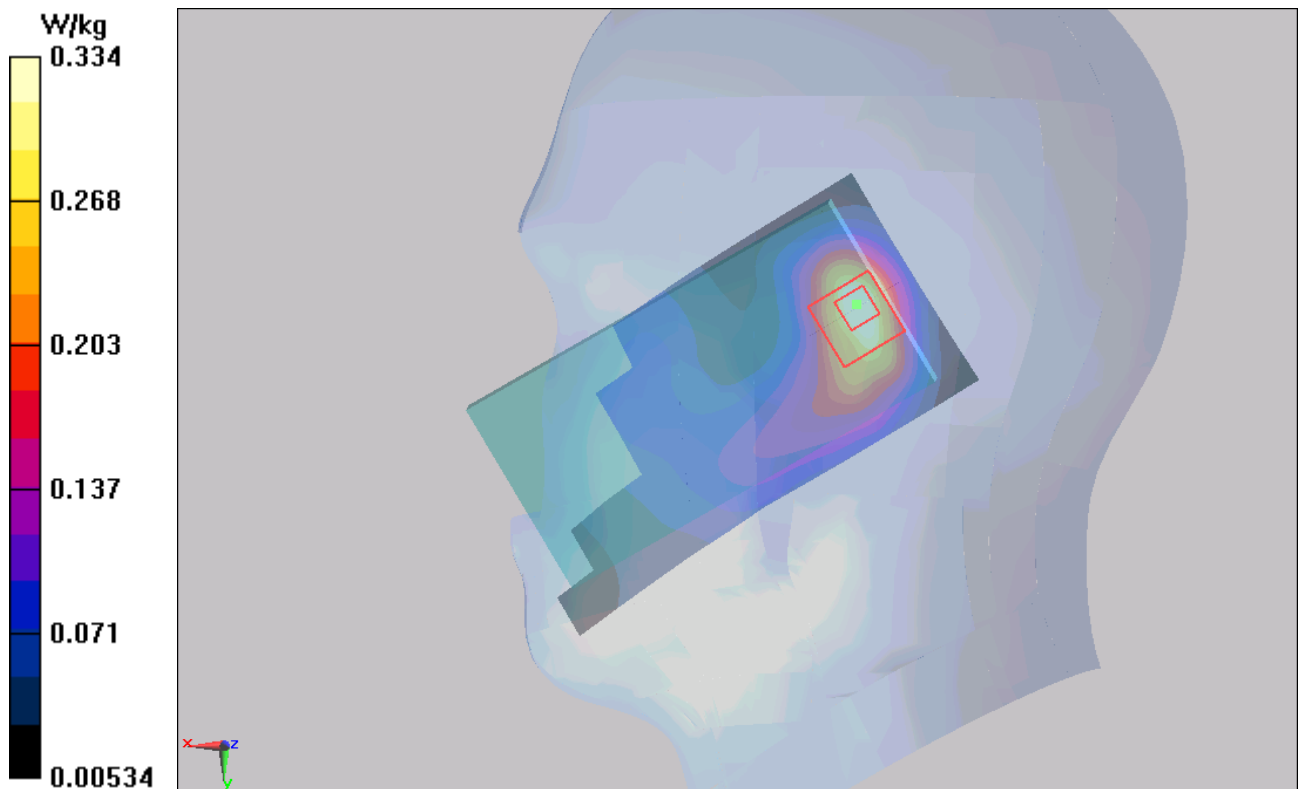


Figure 130 Right Hand Tilt 15° UMTS Band II Channel 9262

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UMTS Band II Right Cheek Low(Battery 2)

Date/Time: 2/22/2014 1:30:31 AM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.389$ mho/m; $\epsilon_r = 39.803$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(8.15, 8.15, 8.15); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.868 W/kg

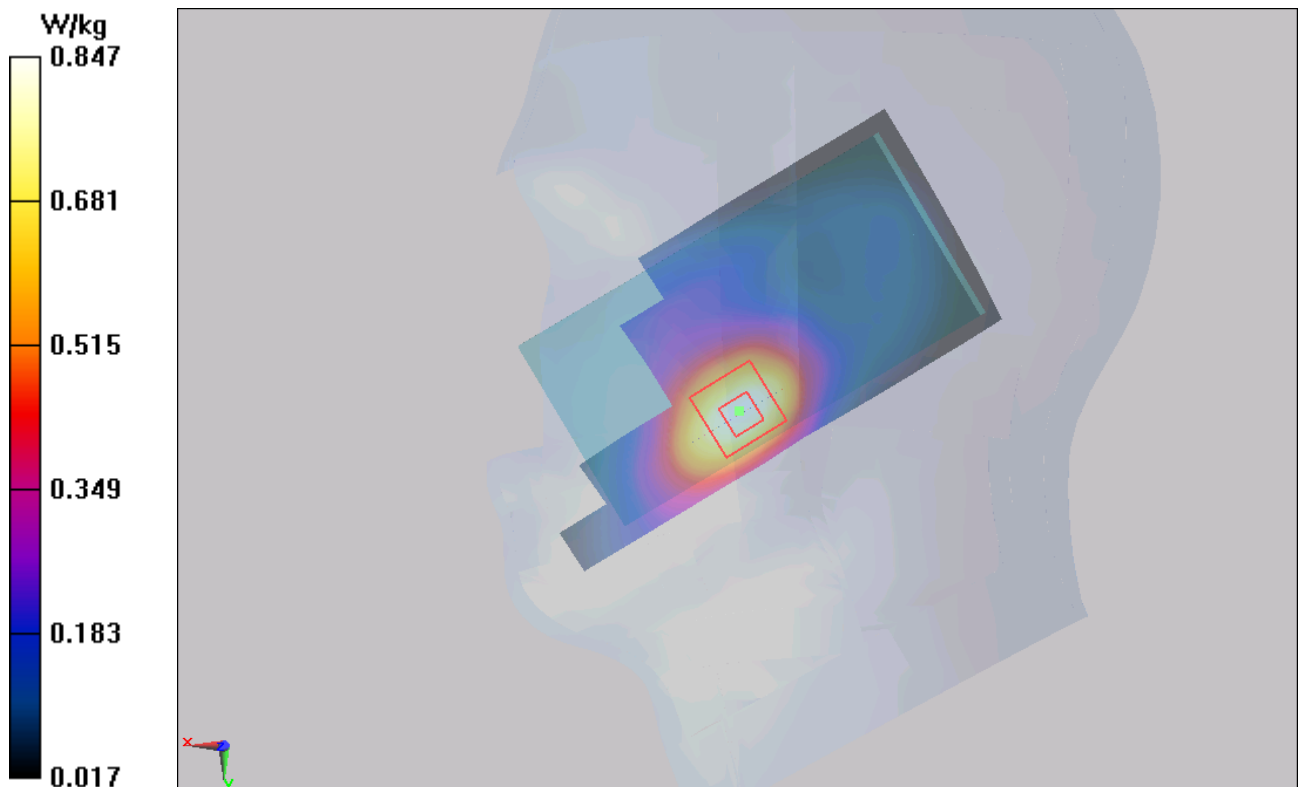
Right Cheek Low /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.162 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 1.206 mW/g

SAR(1 g) = 0.774 mW/g; SAR(10 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.847 W/kg



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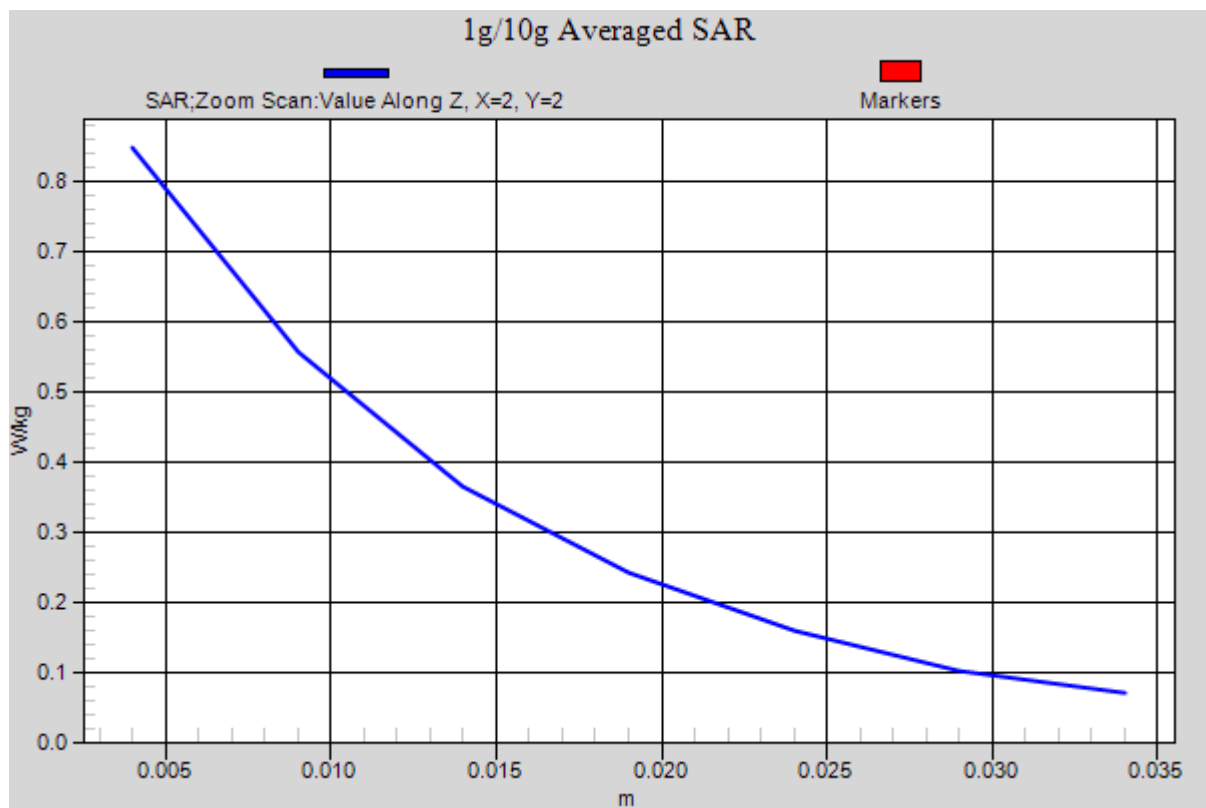


Figure 131 Right Hand Touch Cheek UMTS Band II Channel 9262

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UMTS Band II Back Side High

Date/Time: 2/20/2014 11:37:02 AM

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

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.532$ mho/m; $\epsilon_r = 53.111$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.875 W/kg

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

Reference Value = 10.556 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.246 mW/g

SAR(1 g) = 0.765 mW/g; SAR(10 g) = 0.456 mW/g

Maximum value of SAR (measured) = 0.833 W/kg

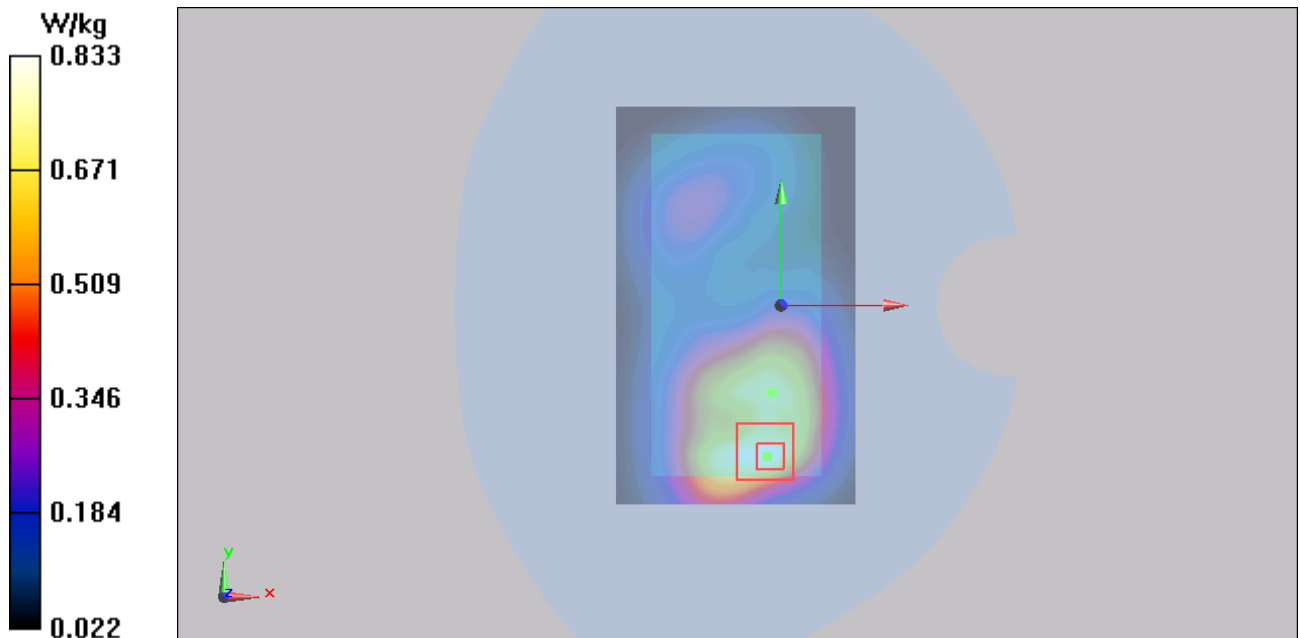


Figure 132 Body, Back Side, UMTS Band II Channel 9538

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UMTS Band II Back Side Middle

Date/Time: 2/20/2014 11:13:36 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

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

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

Reference Value = 10.789 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.509 mW/g

SAR(1 g) = 0.924 mW/g; SAR(10 g) = 0.564 mW/g

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

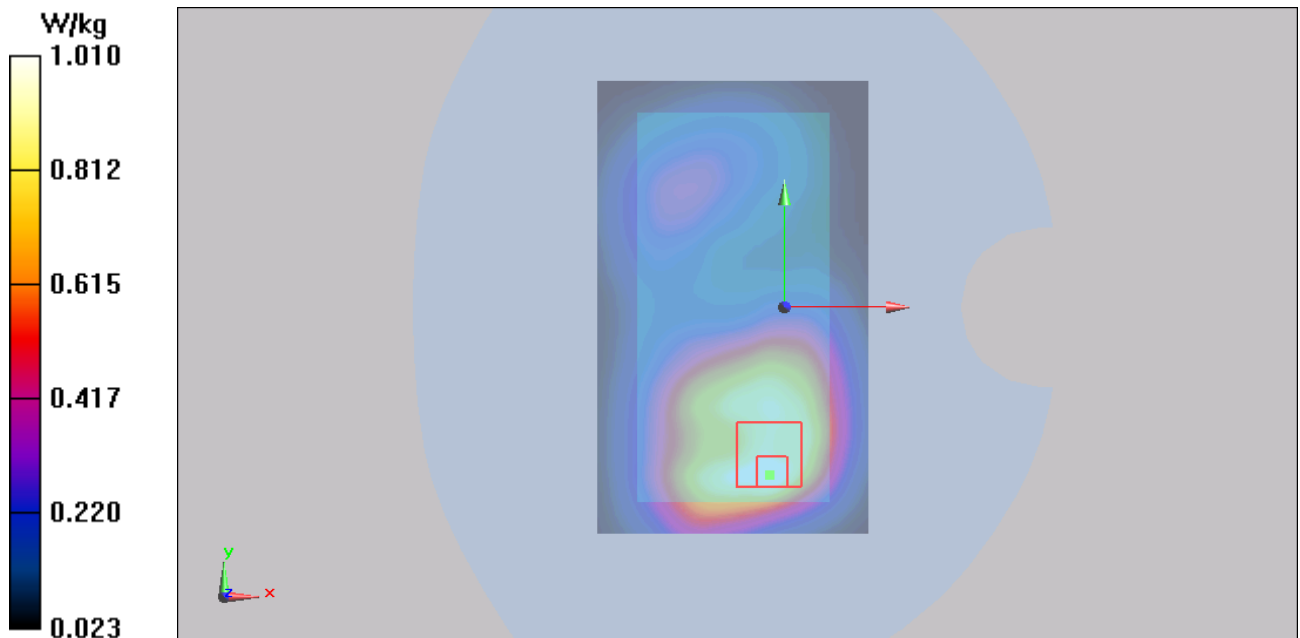


Figure 133 Body, Back Side, UMTS Band II Channel 9400

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UMTS Band II Back Side Low

Date/Time: 2/20/2014 12:04:41 PM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.477$ mho/m; $\epsilon_r = 53.168$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

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

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

Reference Value = 10.582 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.542 mW/g

SAR(1 g) = 0.968 mW/g; SAR(10 g) = 0.608 mW/g

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

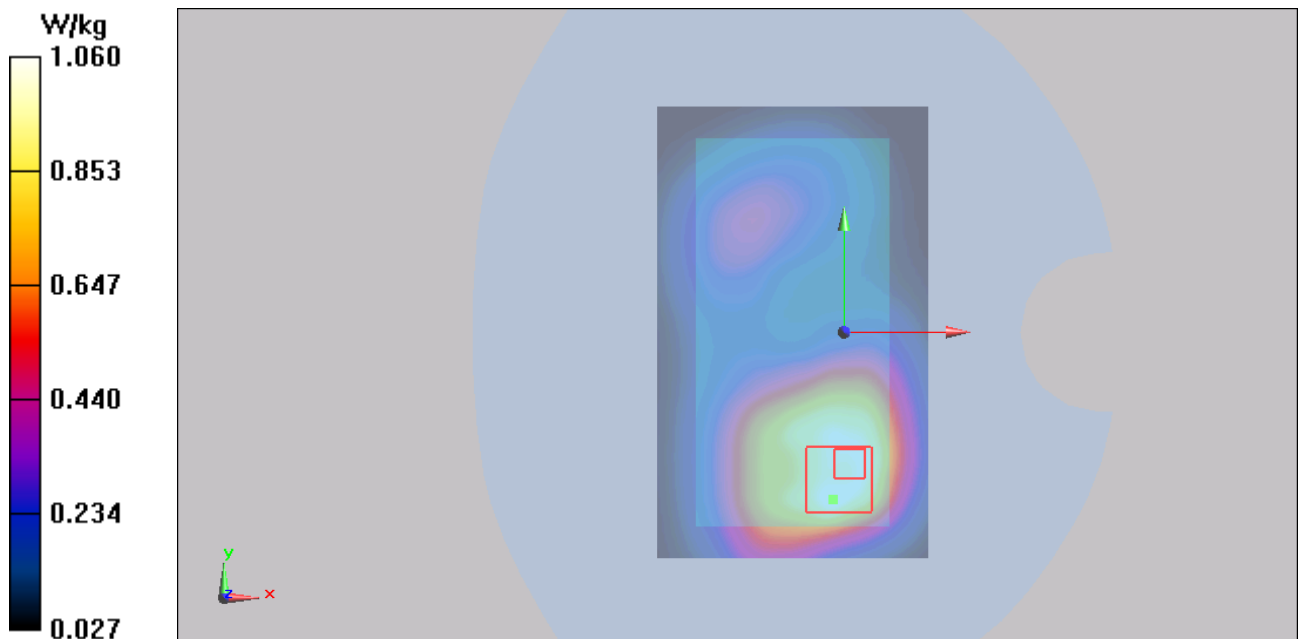


Figure 134 Body, Back Side, UMTS Band II Channel 9262

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UMTS Band II Front Side Middle

Date/Time: 2/20/2014 10:53:04 AM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

Maximum value of SAR (interpolated) = 0.657 W/kg

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

Reference Value = 10.153 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.444 mW/g

SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.371 mW/g

Maximum value of SAR (measured) = 0.670 W/kg

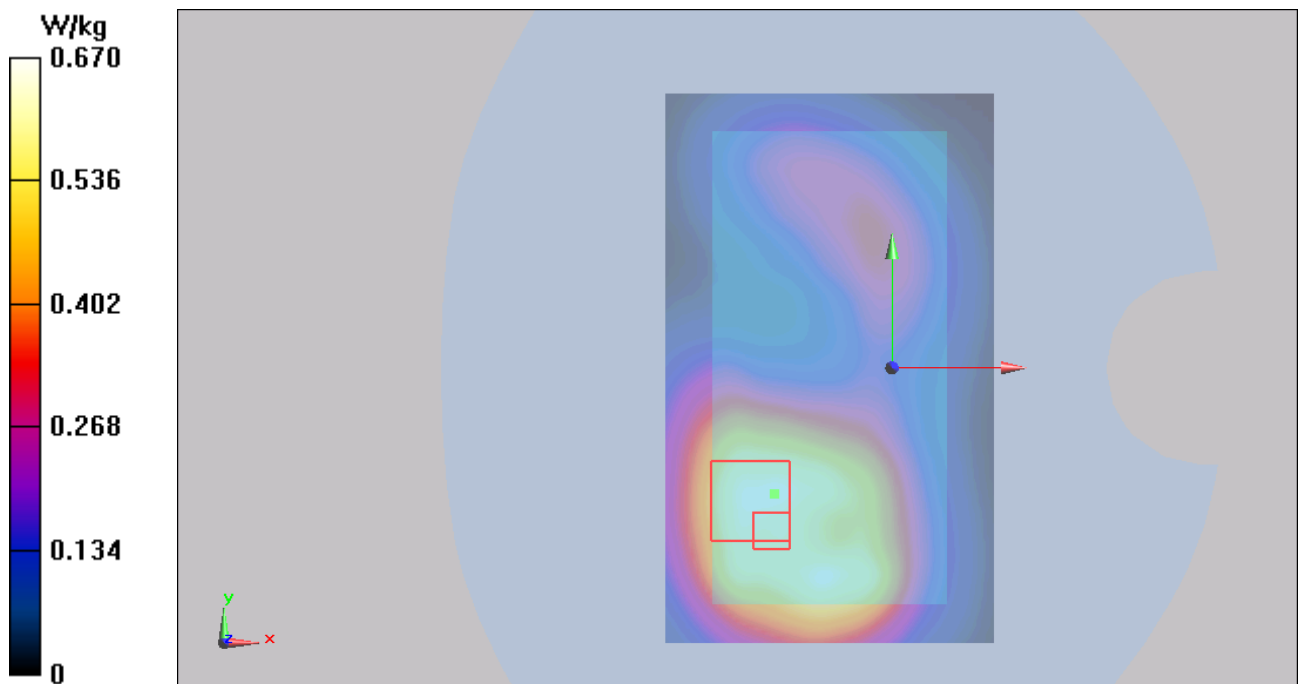


Figure 135 Body, Front Side, UMTS Band II Channel 9400

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UMTS Band II Left Edge Middle

Date/Time: 2/20/2014 1:34:18 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Edge Middle /Area Scan (41x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.238 W/kg

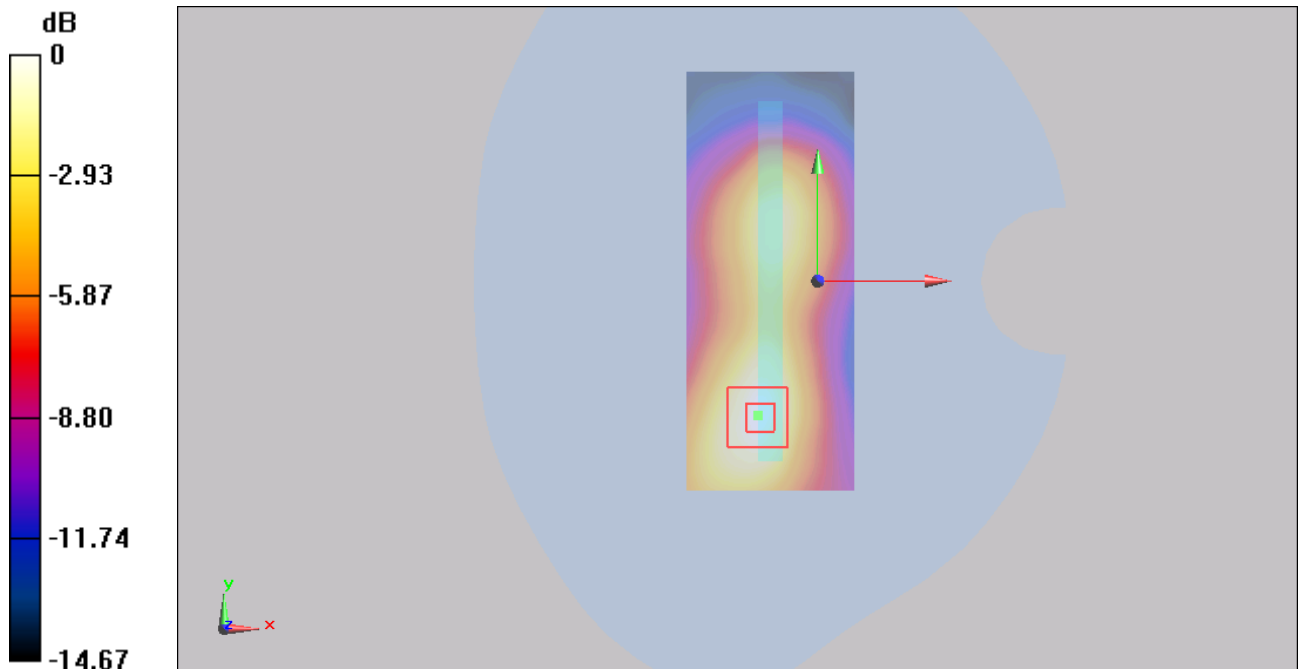
Left Edge Middle /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.146 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.353 mW/g

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.231 W/kg



0 dB = 0.238 W/kg = -12.47 dB W/kg

Figure 136 Body, Left Edge, UMTS Band II Channel 9400

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UMTS Band II Right Edge Middle

Date/Time: 2/20/2014 1:51:19 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Edge Middle /Area Scan (41x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.221 W/kg

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

Reference Value = 6.905 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.329 mW/g

SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.225 W/kg

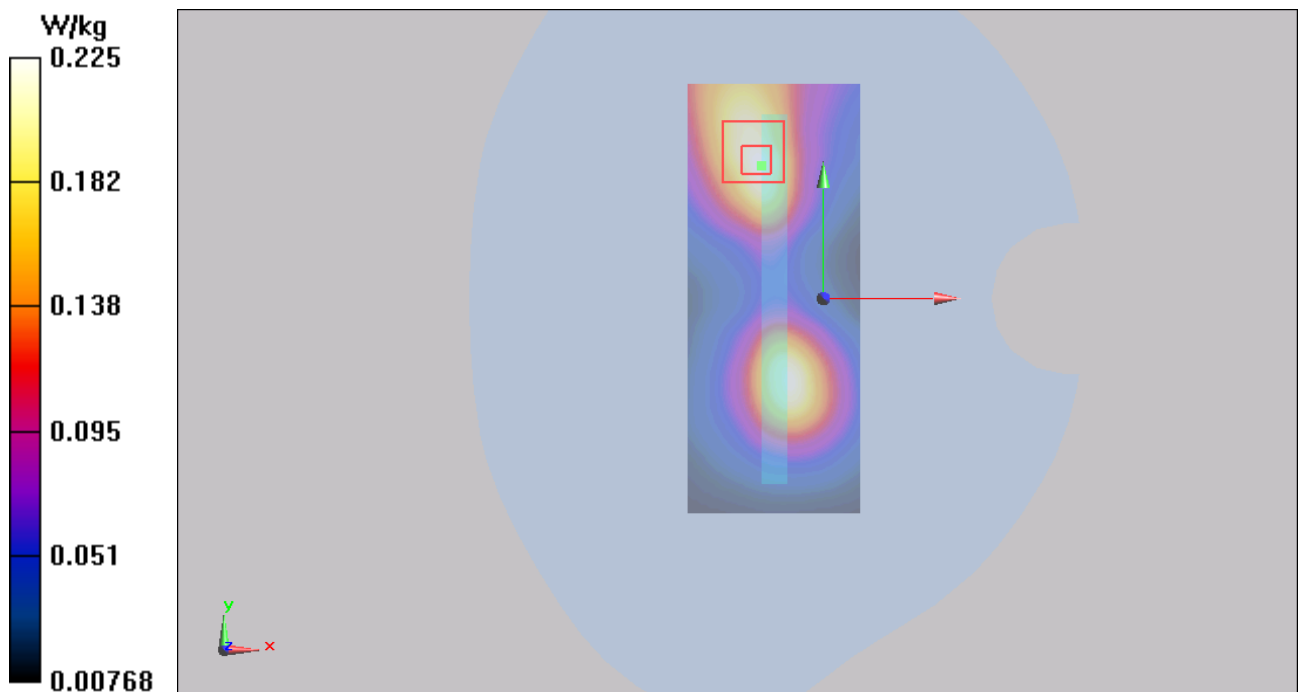


Figure 137 Body, Right Edge, UMTS Band II Channel 9400

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UMTS Band II Bottom Edge High

Date/Time: 2/20/2014 1:15:12 PM

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

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.532$ mho/m; $\epsilon_r = 53.111$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Bottom Edge High /Area Scan (41x81x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.896 W/kg

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

Reference Value = 20.615 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.355 mW/g

SAR(1 g) = 0.807 mW/g; SAR(10 g) = 0.437 mW/g

Maximum value of SAR (measured) = 0.919 W/kg

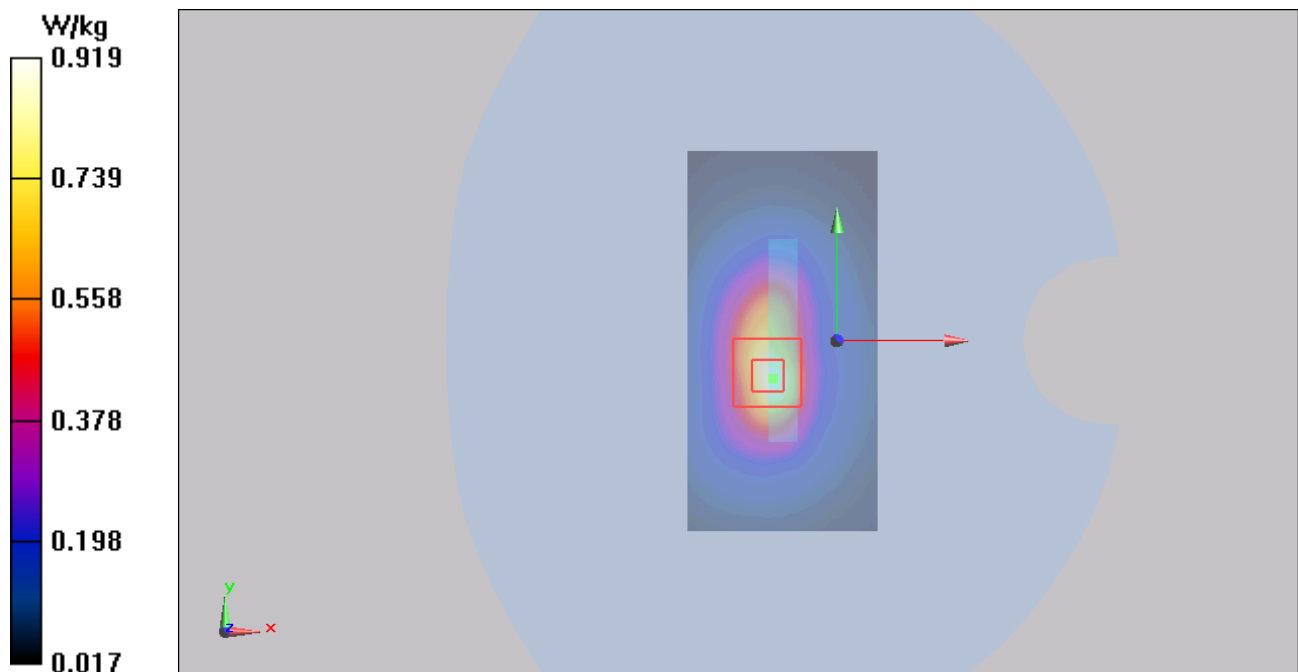


Figure 138 Body, Bottom Edge, UMTS Band II Channel 9538

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UMTS Band II Bottom Edge Middle

Date/Time: 2/20/2014 12:46:49 PM

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.504$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Bottom Edge Middle /Area Scan (41x81x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.975 W/kg

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

Reference Value = 21.754 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.492 mW/g

SAR(1 g) = 0.886 mW/g; SAR(10 g) = 0.484 mW/g

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

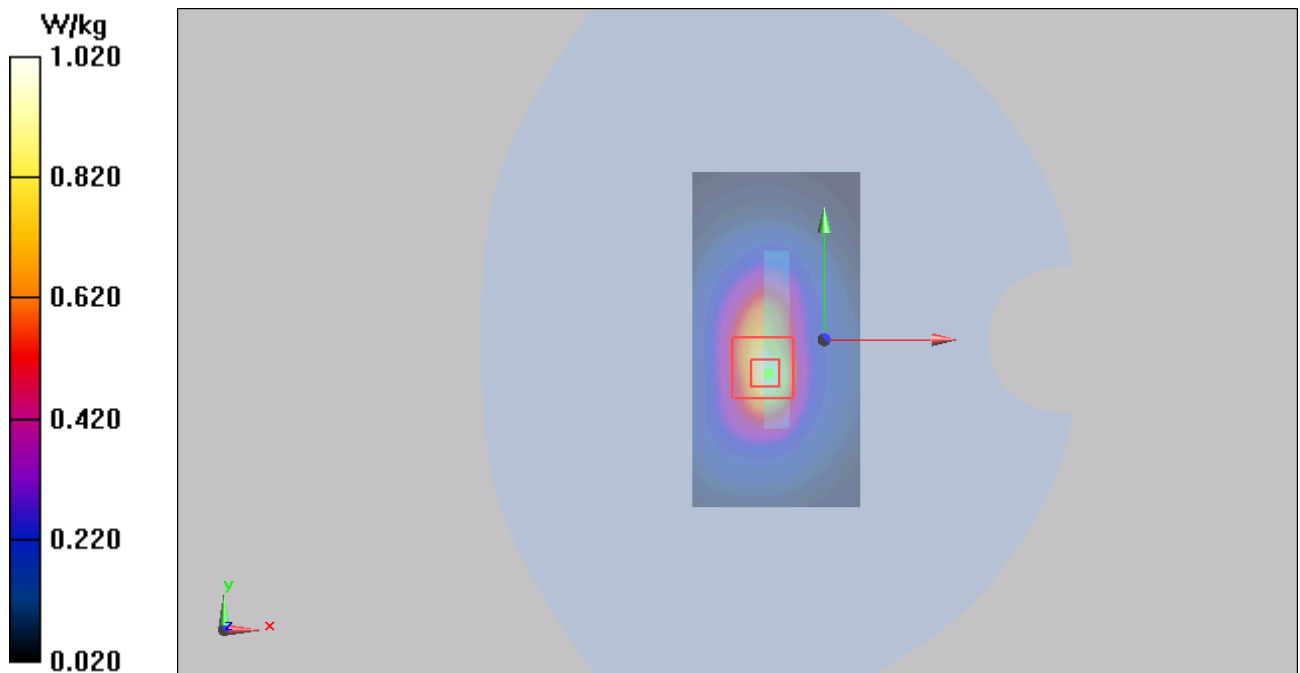


Figure 139 Body, Bottom Edge, UMTS Band II Channel 9400

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UMTS Band II Bottom Edge Low

Date/Time: 2/20/2014 1:01:04 PM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.477$ mho/m; $\epsilon_r = 53.168$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Bottom Edge Low /Area Scan (41x81x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.991 W/kg

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

Reference Value = 22.203 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.502 mW/g

SAR(1 g) = 0.902 mW/g; SAR(10 g) = 0.499 mW/g

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

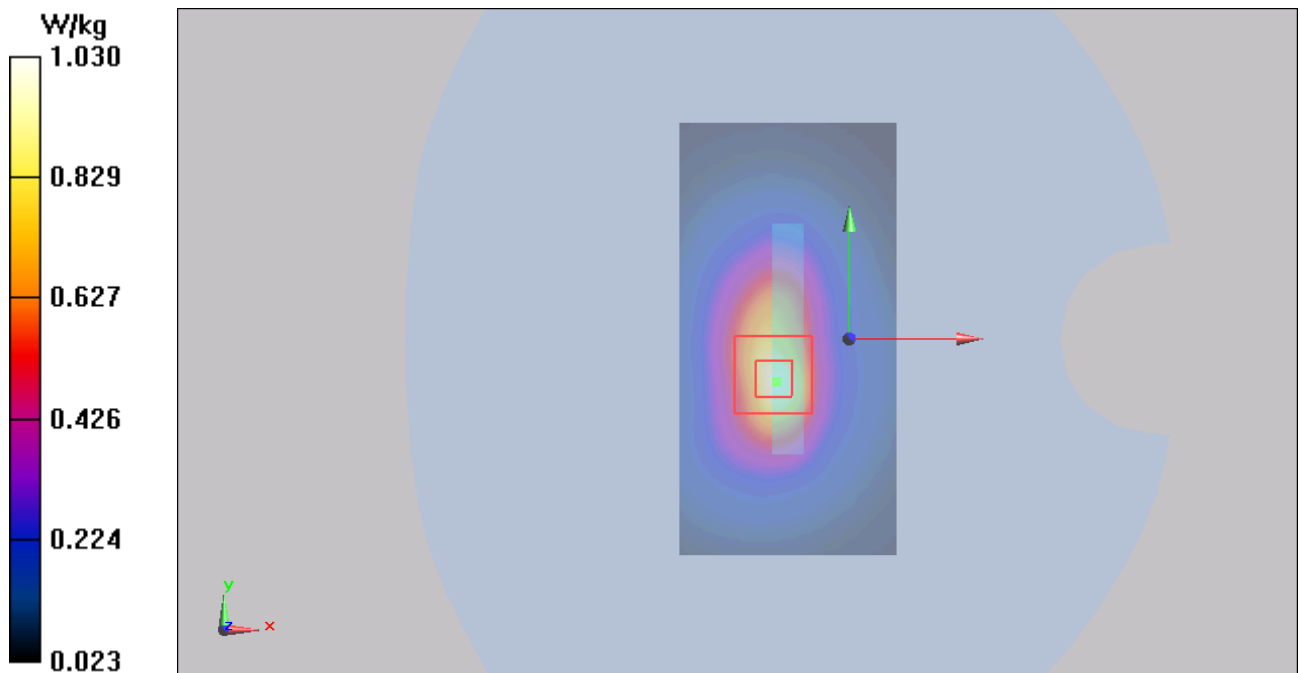


Figure 140 Body, Bottom Edge, UMTS Band II Channel 9262

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UMTS Band II Back Side Low (Battery 2)

Date/Time: 2/20/2014 2:08:32 PM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.477$ mho/m; $\epsilon_r = 53.168$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

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

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

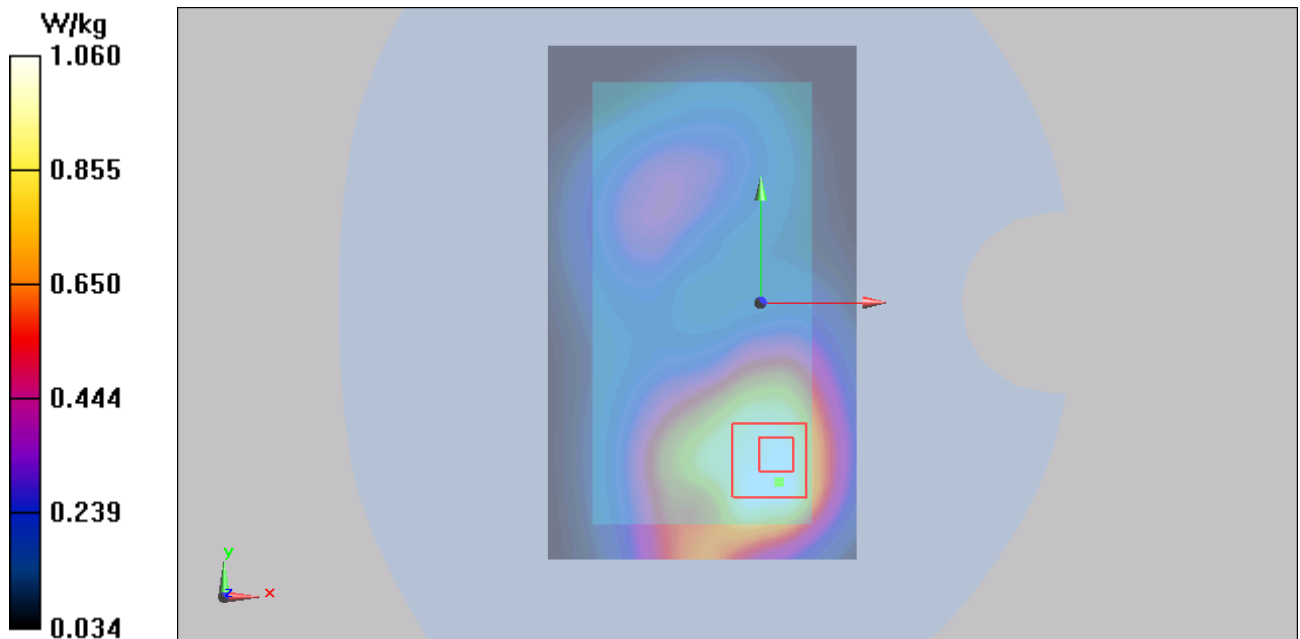
Back Side Low /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.515 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.555 mW/g

SAR(1 g) = 0.986 mW/g; SAR(10 g) = 0.629 mW/g

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



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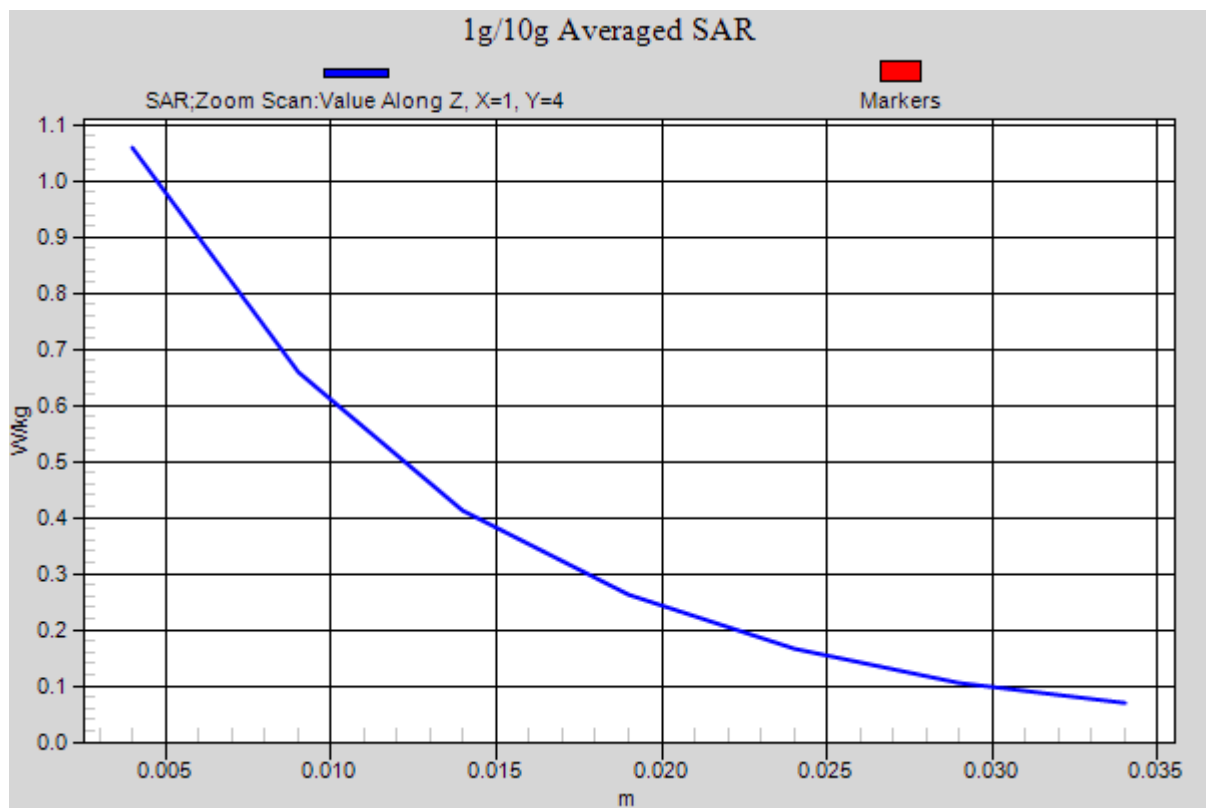


Figure 141 Body, Back Side, UMTS Band II Channel 9262

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UMTS Band II Back Side Low (1st Repeated SAR)

Date/Time: 2/20/2014 2:24:14 PM

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

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.477$ mho/m; $\epsilon_r = 53.168$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(7.63, 7.63, 7.63); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Back Side Low Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 10.448 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.534 mW/g

SAR(1 g) = 0.956 mW/g; SAR(10 g) = 0.603 mW/g

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

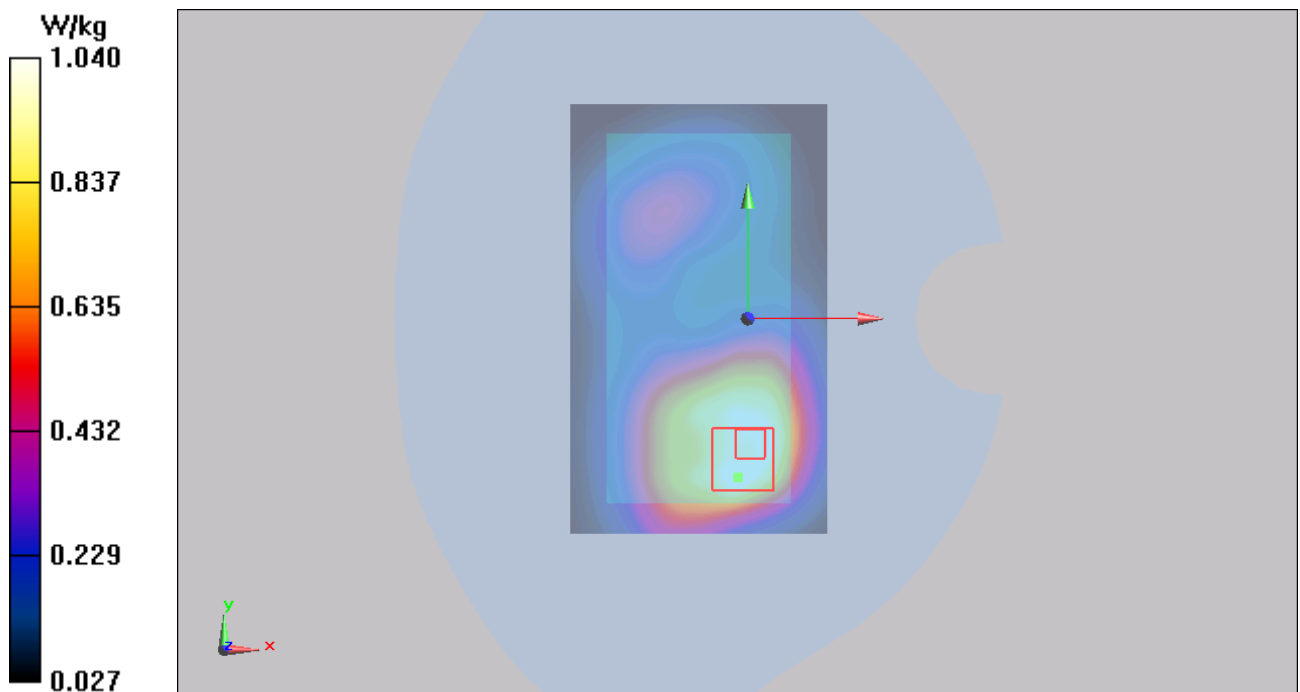


Figure 142 Body, Back Side, UMTS Band II Channel 9262

UMTS Band V Left Cheek High

Date/Time: 2/23/2014 2:06:23 AM

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

Medium parameters used: $f = 847$ MHz; $\sigma = 0.943$ mho/m; $\epsilon_r = 41.323$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.356 W/kg

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

Reference Value = 5.686 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.420 mW/g

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.255 mW/g

Maximum value of SAR (measured) = 0.354 W/kg

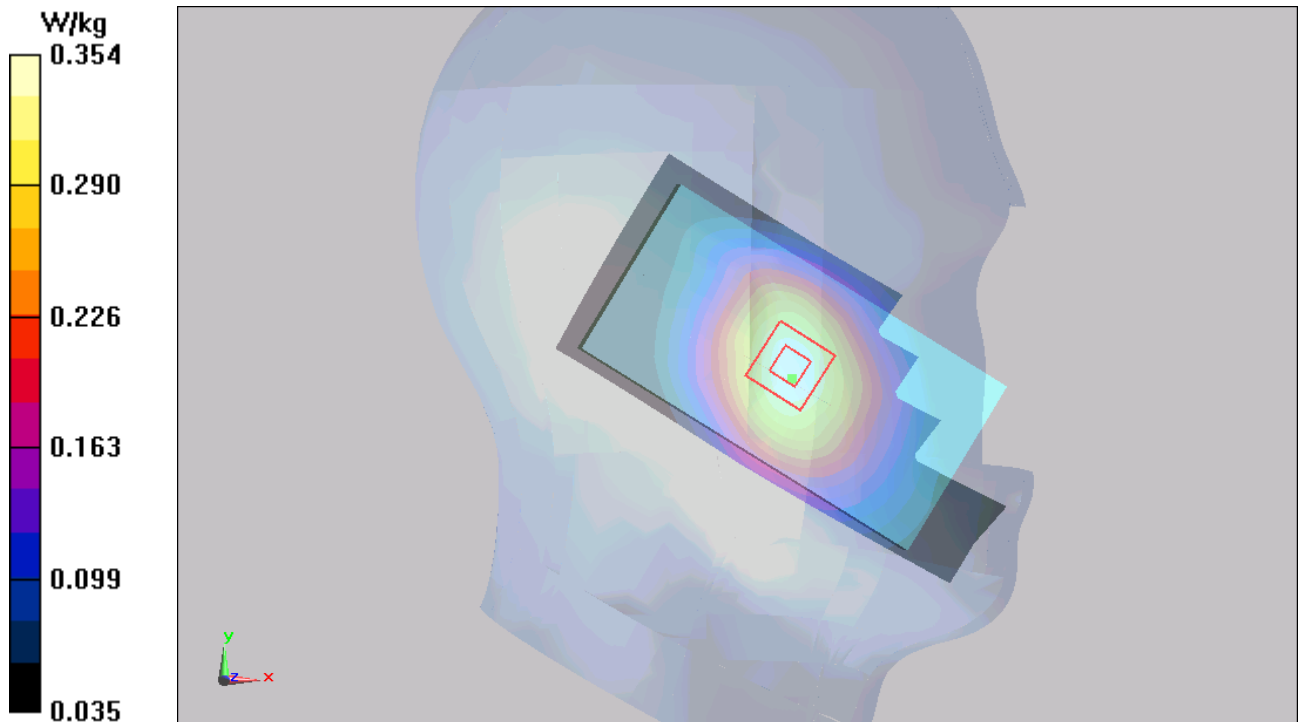


Figure 143 Left Hand Touch Cheek UMTS Band V Channel 4233

UMTS Band V Left Cheek Middle

Date/Time: 2/23/2014 2:22:28 AM

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

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.420 W/kg

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

Reference Value = 6.144 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.482 mW/g

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.297 mW/g

Maximum value of SAR (measured) = 0.416 W/kg

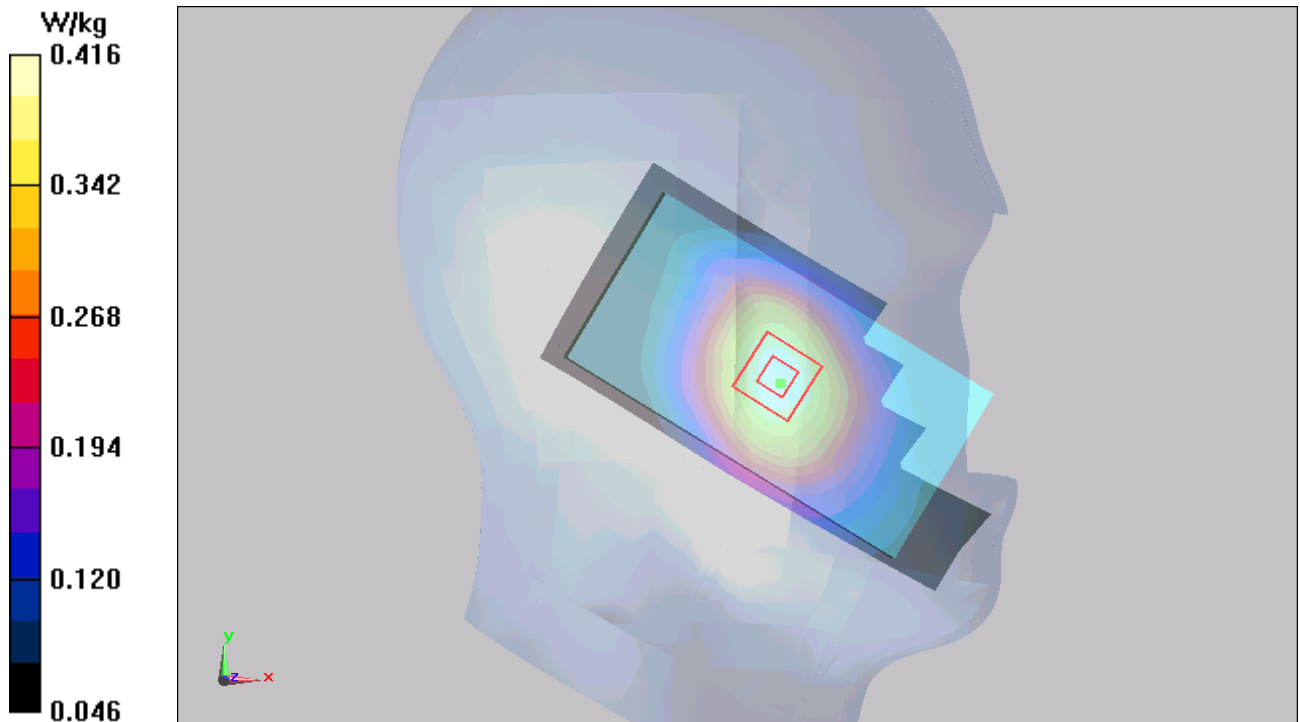


Figure 144 Left Hand Touch Cheek UMTS Band V Channel 4183

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UMTS Band V Left Cheek Low

Date/Time: 2/23/2014 2:38:27 AM

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.921$ mho/m; $\epsilon_r = 41.437$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Cheek Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.476 W/kg

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

Reference Value = 6.819 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.556 mW/g

SAR(1 g) = 0.452 mW/g; SAR(10 g) = 0.342 mW/g

Maximum value of SAR (measured) = 0.473 W/kg

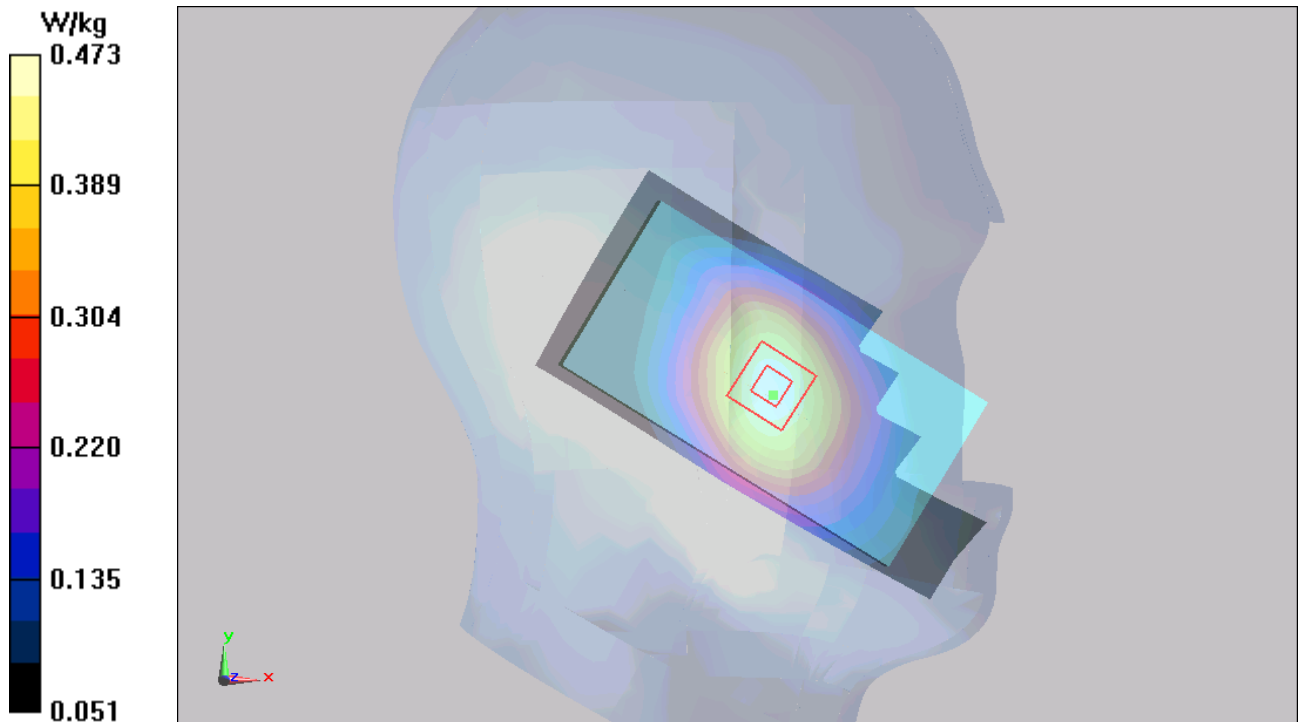


Figure 145 Left Hand Touch Cheek UMTS Band V Channel 4132

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UMTS Band V Left Tilt High

Date/Time: 2/23/2014 3:43:30 AM

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

Medium parameters used: $f = 847$ MHz; $\sigma = 0.943$ mho/m; $\epsilon_r = 41.323$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.347 W/kg

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

Reference Value = 11.607 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.425 mW/g

SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.355 W/kg

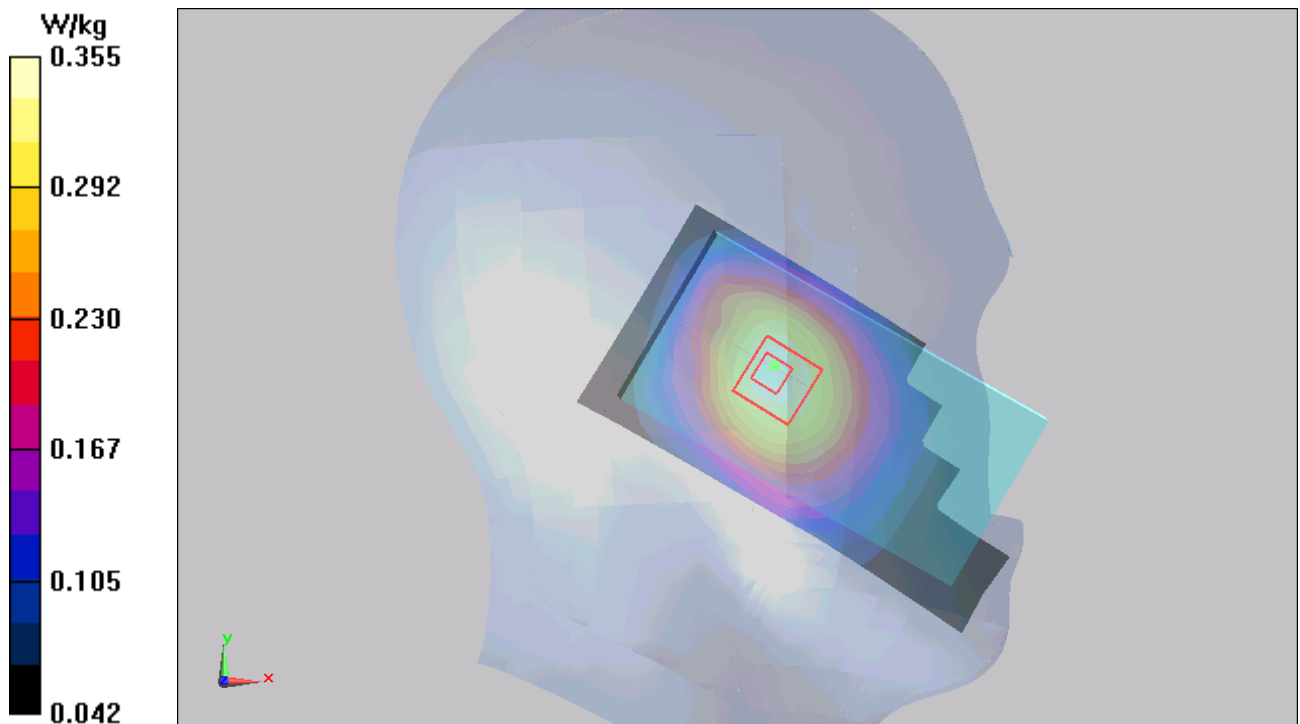


Figure 146 Left Hand Tilt 15° UMTS Band V Channel 4233

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UMTS Band V Left Tilt Middle

Date/Time: 2/23/2014 3:27:31 AM

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

Medium parameters used: $f = 837$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 41.357$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt Middle /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.398 W/kg

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

Reference Value = 12.648 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.481 mW/g

SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.293 mW/g

Maximum value of SAR (measured) = 0.405 W/kg

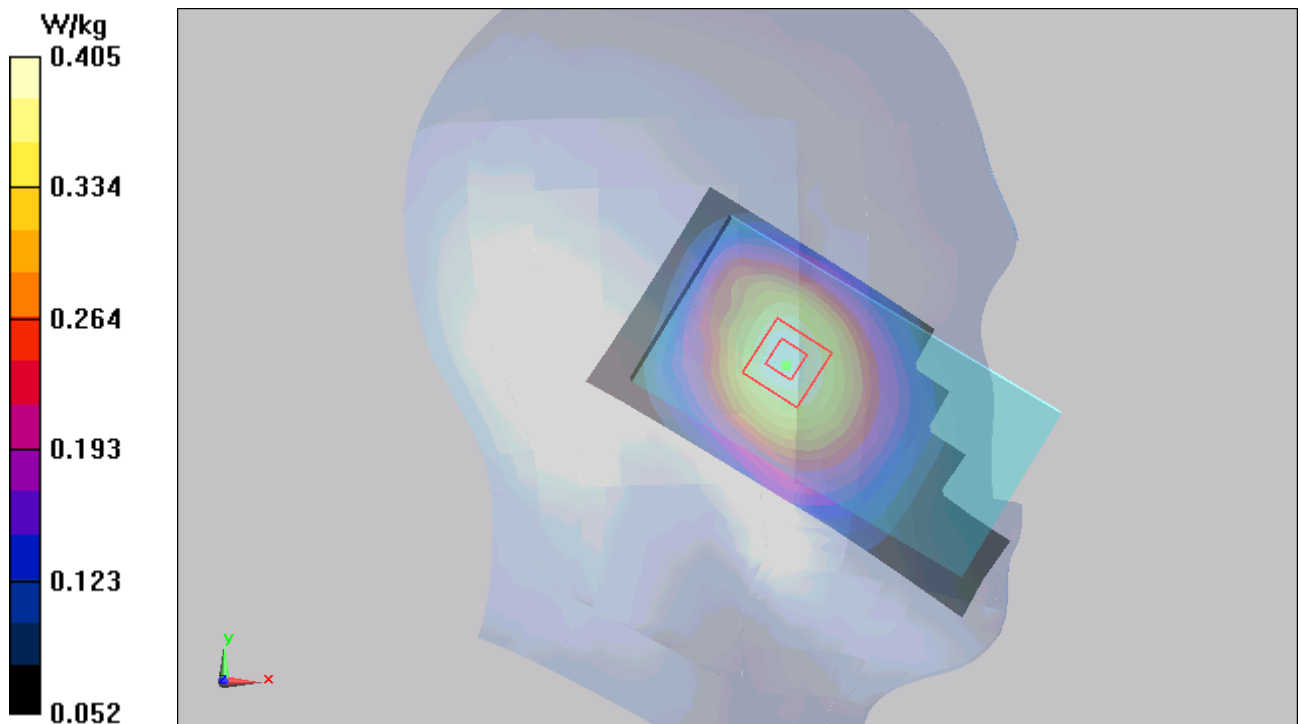


Figure 147 Left Hand Tilt 15° UMTS Band V Channel 4183

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UMTS Band V Left Tilt Low

Date/Time: 2/23/2014 3:11:43 AM

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.921$ mho/m; $\epsilon_r = 41.437$; $\rho = 1000$ kg/m³

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

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Left Tilt Low /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.451 W/kg

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

Reference Value = 14.021 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.538 mW/g

SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.331 mW/g

Maximum value of SAR (measured) = 0.446 W/kg

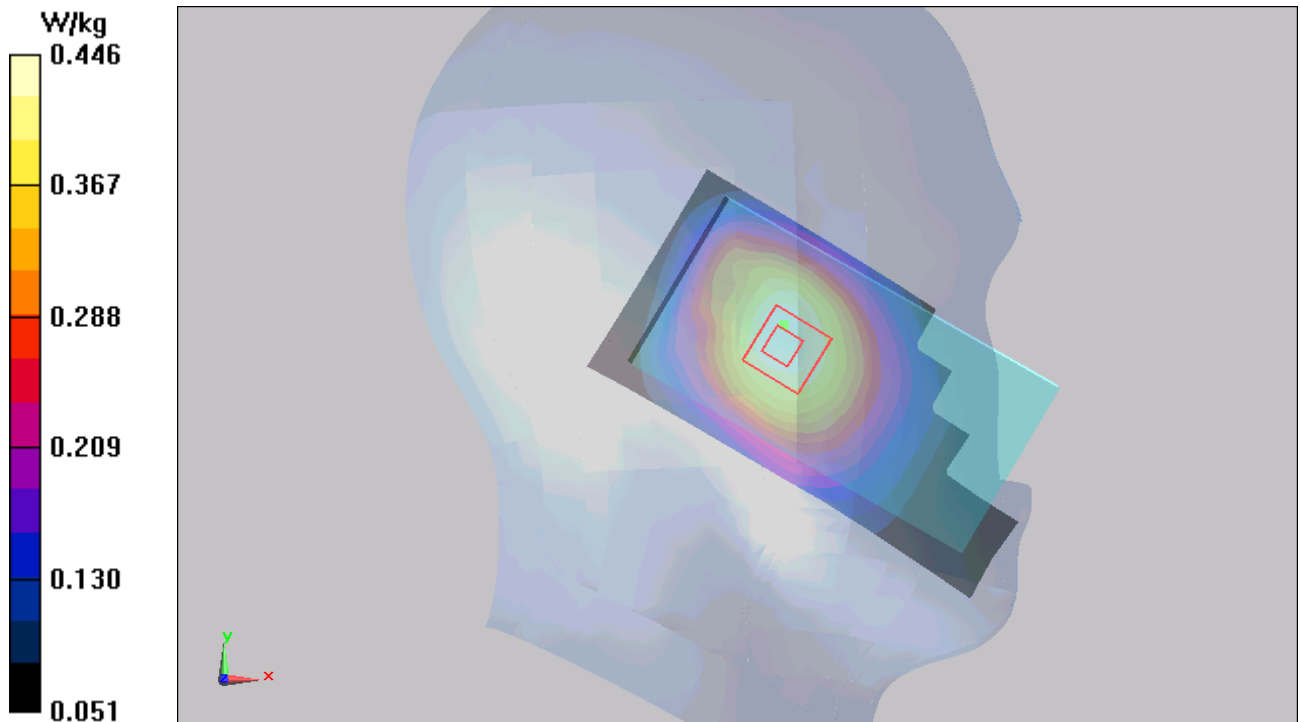


Figure 148 Left Hand Tilt 15° UMTS Band V Channel 4132

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UMTS Band V Right Cheek High

Date/Time: 2/23/2014 12:43:53 AM

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

Medium parameters used: $f = 847$ MHz; $\sigma = 0.943$ mho/m; $\epsilon_r = 41.323$; $\rho = 1000$ kg/m³

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

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 – SN3677; ConvF(9.41, 9.41, 9.41); Calibrated: 11/28/2013;

Electronics: DAE4 Sn1317; Calibrated: 1/16/2014

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

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Right Cheek High /Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.404 W/kg

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

Reference Value = 6.370 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 0.485 mW/g

SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.403 W/kg

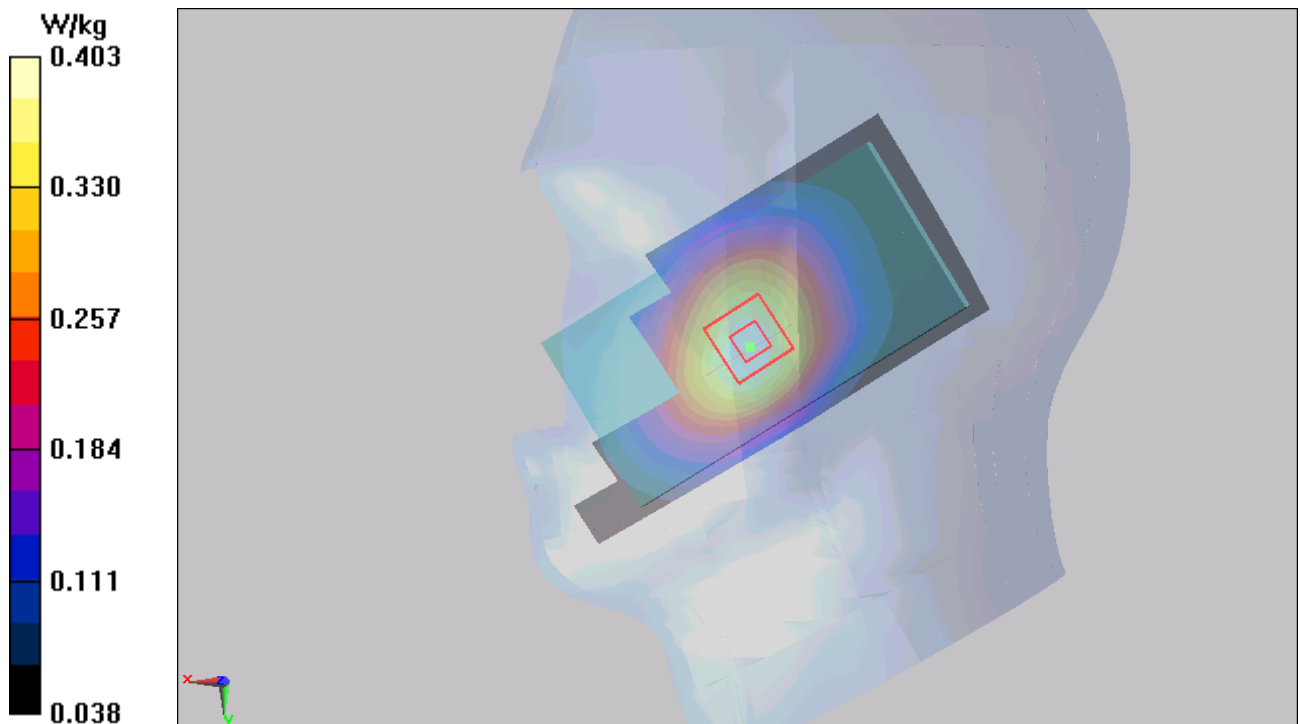


Figure 149 Right Hand Touch Cheek UMTS Band V Channel 4233