



FCC SAR Test Report

Report No. : SA131213C05

Applicant : ASUSTek COMPUTER INC.

Address : 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN

Product : PadFone X

FCC ID : MSQT00D

Brand : ASUS

Model No. : T00D

Standards : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2003
 IEEE 1528a-2005 / KDB 865664 D01 v01r03 / KDB 248227 D01 v01r02
 KDB 447498 D01 v05r02 / KDB 616217 D04 v01r01 / KDB 648474 D04 v01r02
 KDB 941225 D01 v02 / KDB 941225 D02 v02r02 / KDB 941225 D03 v01
 KDB 941225 D05 v02r03 / KDB 941225 D06 v01r01

Sample Received Date : Dec. 13, 2013

Date of Testing : Jan. 03, 2014 ~ Feb. 20, 2014

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample’s SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

Prepared By : Evonne Liu
 Evonne Liu / Specialist

Approved By : Roy Wu
 Roy Wu / Manager



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.



Table of Contents

Release Control Record 3

1. Summary of Maximum SAR Value 4

2. Description of Equipment Under Test 6

3. SAR Measurement System 7

3.1 Definition of Specific Absorption Rate (SAR) 7

3.2 SPEAG DASY System 7

3.2.1 Robot 8

3.2.2 Probes 9

3.2.3 Data Acquisition Electronics (DAE) 9

3.2.4 Phantoms 10

3.2.5 Device Holder 11

3.2.6 System Validation Dipoles 11

3.2.7 Tissue Simulating Liquids 12

3.3 SAR System Verification 15

3.4 SAR Measurement Procedure 16

3.4.1 Area & Zoom Scan Procedure 16

3.4.2 Volume Scan Procedure 16

3.4.3 Power Drift Monitoring 17

3.4.4 Spatial Peak SAR Evaluation 17

3.4.5 SAR Averaged Methods 17

4. SAR Measurement Evaluation 18

4.1 EUT Configuration and Setting 18

4.2 EUT Testing Position 20

4.2.1 Head Exposure Conditions 21

4.2.2 Body-Worn Accessory Exposure Conditions 23

4.2.3 Hotspot Mode Exposure conditions 24

4.2.4 SAR Test Exclusions for Handset Mode 24

4.2.5 Body Exposure Conditions for Tablet PC Mode 25

4.3 Tissue Verification 27

4.4 System Validation 28

4.5 System Verification 29

4.6 Maximum Output Power 30

4.6.1 Maximum Conducted Power 30

4.6.2 Measured Conducted Power Result 32

4.7 SAR Testing Results 47

4.7.1 SAR Results for Head (for Handset Mode) 47

4.7.2 SAR Results for Body-Worn (for Handset Mode, Separation Distance is 1.0 cm Gap) 50

4.7.3 SAR Results for Hotspot (for Handset Mode, Separation Distance is 1.0 cm Gap) 52

4.7.4 SAR Results for Body (for Tablet PC Mode) 55

4.7.5 SAR Measurement Variability 58

4.7.6 Simultaneous Multi-band Transmission Evaluation 59

5. Calibration of Test Equipment 75

6. Measurement Uncertainty 76

7. Information on the Testing Laboratories 78

Appendix A. SAR Plots of System Verification

Appendix B. SAR Plots of SAR Measurement

Appendix C. Calibration Certificate for Probe and Dipole

Appendix D. Photographs of EUT and Setup



Release Control Record

Report No.	Reason for Change	Date Issued
SA131213C05	Initial release	Feb. 27, 2014

1. Summary of Maximum SAR Value

<EUT Configuration: Handset>

Equipment Class	Mode	Highest Reported Head SAR _{1g} (W/kg)	Highest Reported Body-Worn SAR _{1g} (1.0 cm Gap) (W/kg)	Highest Reported Hotspot SAR _{1g} (1.0 cm Gap) (W/kg)
PCE	GSM850	0.29	0.67	0.67
	GSM1900	0.61	1.18	1.18
	WCDMA II	0.54	0.66	0.66
	WCDMA V	0.18	0.31	0.31
	LTE 2	0.58	0.59	0.59
	LTE 4	0.53	0.63	0.63
	LTE 5	0.17	0.25	0.25
	LTE 7	0.10	0.25	0.25
	LTE 17	0.16	0.35	0.35
DTS	2.4G WLAN	0.58	0.07	0.07
	5.8G WLAN	0.63	0.38	N/A
NII	5.2G WLAN	0.86	0.50	N/A
	5.3G WLAN	0.98	0.50	N/A
	5.6G WLAN	0.65	0.37	N/A
DSS	Bluetooth	N/A	N/A	N/A
DXX	NFC	N/A	N/A	N/A
Highest Simultaneous Transmission SAR		Head (W/kg)	Body-Worn (W/kg)	Hotspot (W/kg)
PCE+DTS		1.03	1.56	1.22
PCE+NII		1.29	1.18	N/A
PCE+DSS		N/A	1.42	N/A

Note:

- The SAR limit (**Head & Body: SAR_{1g} 1.6 W/kg**) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.



<EUT Configuration: Tablet PC>

Equipment Class	Mode	Highest Reported Body SAR _{1g} (W/kg)
PCB	GSM850	0.75
	GSM1900	0.59
	WCDMA II	0.57
	WCDMA V	0.47
	LTE 2	0.77
	LTE 4	0.66
	LTE 5	0.52
	LTE 7	0.84
	LTE 17	0.29
DTS	2.4G WLAN	0.50
	5.8G WLAN	0.93
NII	5.2G WLAN	0.79
	5.3G WLAN	1.05
	5.6G WLAN	1.02
DSS	Bluetooth	0.06
DXX	NFC	N/A
Highest Simultaneous Transmission SAR		Body (W/kg)
PCB+DTS		1.46
PCB+NII		1.58
PCB+DSS		0.86

Note:

- The SAR limit (Head & Body: SAR_{1g} 1.6 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.



FCC SAR Test Report

2. Description of Equipment Under Test

EUT Type	PadFone X
FCC ID	MSQT00D
Brand Name	ASUS
Model Name	T00D
HW Version	ER1
SW Version	V11.6.0.33
EUT Configuration	EUT 1: EUT + Front Camera 1 EUT 2: EUT + Front Camera 2
Tx Frequency Bands (Unit: MHz)	GSM850 : 824.2 ~ 848.8 GSM1900 : 1850.2 ~ 1909.8 WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band V : 826.4 ~ 846.6 LTE Band 2 : 1852.5 ~ 1907.5 LTE Band 4 : 1712.5 ~ 1752.5 LTE Band 5 : 826.5 ~ 846.5 LTE Band 7 : 2502.5 ~ 2567.5 LTE Band 17 : 706.5 ~ 713.5 WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5805 Bluetooth : 2402 ~ 2480 NFC : 13.56
Uplink Modulations	GSM & GPRS : GMSK EDGE : 8PSK WCDMA : QPSK LTE : QPSK, 16QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK NFC : ASK
Maximum Tune-up Conducted Power (Unit: dBm)	GSM850 : 32.0 GSM1900 : 29.5 WCDMA Band II : 22.5 WCDMA Band V : 23.0 LTE Band 2 : 22.6 LTE Band 4 : 22.6 LTE Band 5 : 22.4 LTE Band 7 : 20.6 LTE Band 17 : 22.4 WLAN 2.4G : 14.5 WLAN 5.2G : 15.5 WLAN 5.3G : 15.1 WLAN 5.6G : 15.5 WLAN 5.8G : 15.5 Bluetooth : 10.5
Antenna Type	Fixed Internal Antenna
EUT Stage	Identical Prototype

Note:

- The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

List of Accessory:

Battery	Brand Name	ASUS
	Model Name	C11P1322
	Power Rating	3.8Vdc, 8.7mAh
	Type	Li-ion

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

SAR measurement can be related to the electrical field in the tissue by

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

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

3.2 SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY4/5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

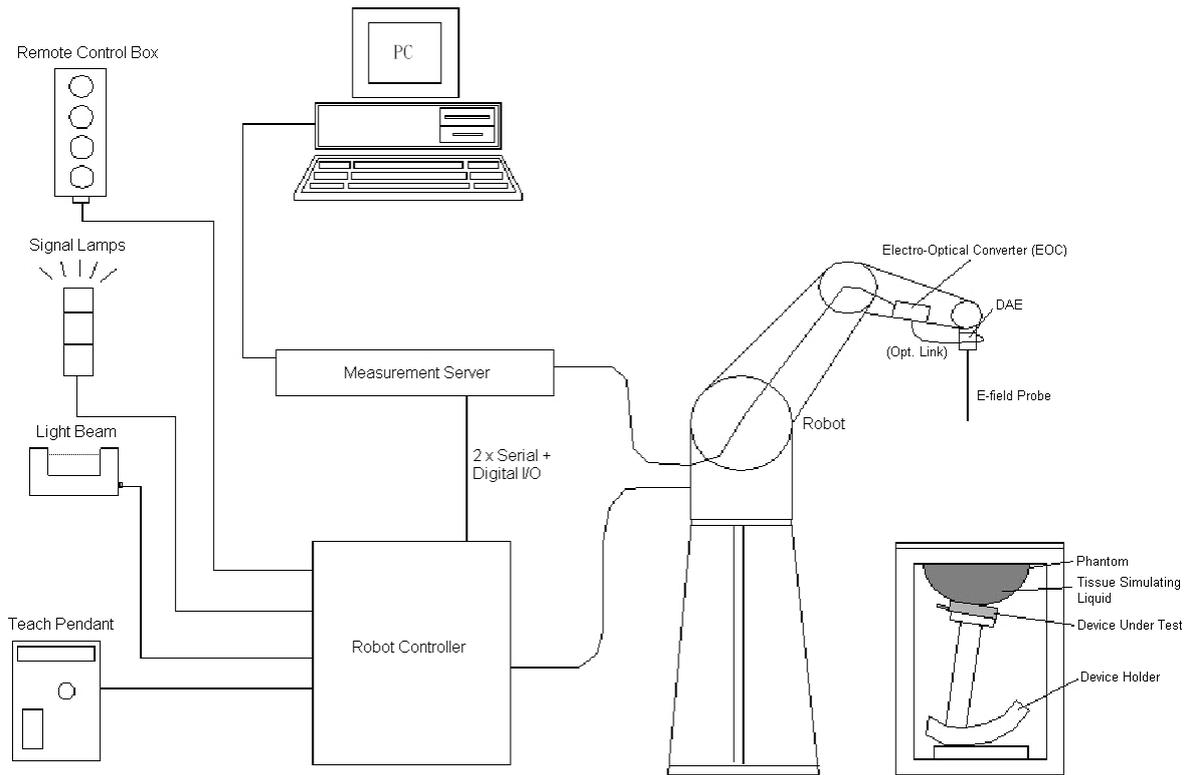


Fig-3.1 DASY System Setup

3.2.1 Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY4: CS7MB; DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

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



Fig-3.2 DASY4



Fig-3.3 DASY5

FCC SAR Test Report

3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

Model	EX3DV4	
Construction	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically $< 1 \mu$ W/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

Model	ES3DV3	
Construction	Symmetrical design with triangular core. Interleaved sensors. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
Frequency	10 MHz to 4 GHz Linearity: ± 0.2 dB	
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	5 μ W/g to 100 mW/g Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm	

3.2.3 Data Acquisition Electronics (DAE)

Model	DAE3, DAE4	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	$< 5 \mu$ V (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

FCC SAR Test Report

3.2.4 Phantoms

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. 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 evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	

Model	ELI	
Construction	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	

FCC SAR Test Report

3.2.5 Device Holder

Model	Mounting Device	
Construction	In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).	
Material	POM	

Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner.	
Material	POM, Acrylic glass, Foam	

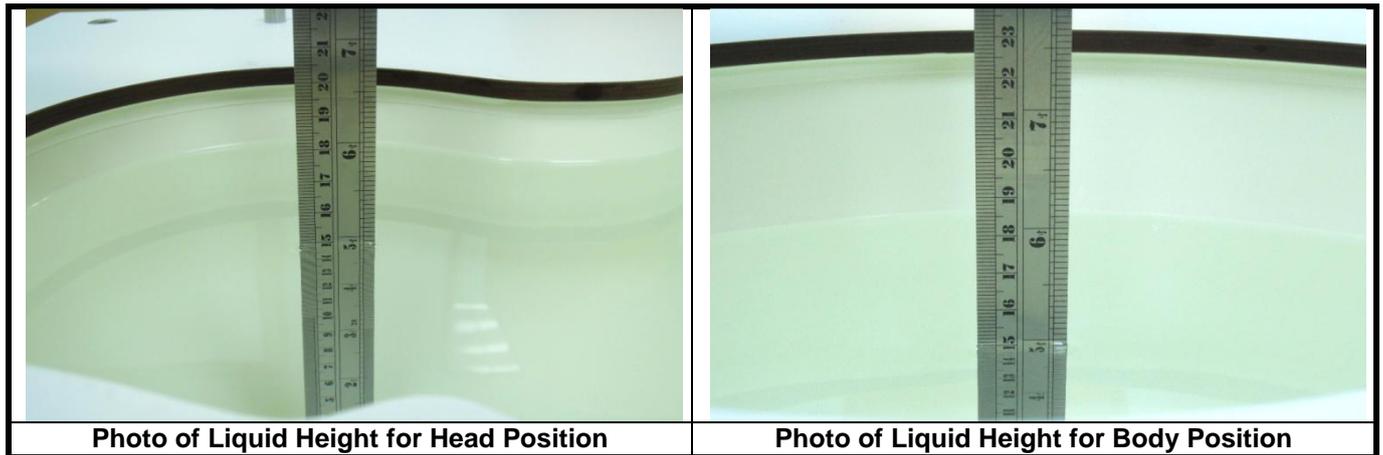
3.2.6 System Validation Dipoles

Model	D-Serial	
Construction	Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.	
Frequency	750 MHz to 5800 MHz	
Return Loss	> 20 dB	
Power Capability	> 100 W (f < 1GHz), > 40 W (f > 1GHz)	

FCC SAR Test Report

3.2.7 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.



The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528, and KDB 865664 D01 Appendix A. For the body tissue simulating liquids, the dielectric properties are defined in KDB 865664 D01 Appendix A. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.



FCC SAR Test Report

Table-3.1 Targets of Tissue Simulating Liquid

Frequency (MHz)	Target Permittivity	Range of $\pm 5\%$	Target Conductivity	Range of $\pm 5\%$
For Head				
750	41.9	39.8 ~ 44.0	0.89	0.85 ~ 0.93
835	41.5	39.4 ~ 43.6	0.90	0.86 ~ 0.95
900	41.5	39.4 ~ 43.6	0.97	0.92 ~ 1.02
1450	40.5	38.5 ~ 42.5	1.20	1.14 ~ 1.26
1640	40.3	38.3 ~ 42.3	1.29	1.23 ~ 1.35
1750	40.1	38.1 ~ 42.1	1.37	1.30 ~ 1.44
1800	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
1900	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2000	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2300	39.5	37.5 ~ 41.5	1.67	1.59 ~ 1.75
2450	39.2	37.2 ~ 41.2	1.80	1.71 ~ 1.89
2600	39.0	37.1 ~ 41.0	1.96	1.86 ~ 2.06
3500	37.9	36.0 ~ 39.8	2.91	2.76 ~ 3.06
5200	36.0	34.2 ~ 37.8	4.66	4.43 ~ 4.89
5300	35.9	34.1 ~ 37.7	4.76	4.52 ~ 5.00
5500	35.6	33.8 ~ 37.4	4.96	4.71 ~ 5.21
5600	35.5	33.7 ~ 37.3	5.07	4.82 ~ 5.32
5800	35.3	33.5 ~ 37.1	5.27	5.01 ~ 5.53
For Body				
750	55.5	52.7 ~ 58.3	0.96	0.91 ~ 1.01
835	55.2	52.4 ~ 58.0	0.97	0.92 ~ 1.02
900	55.0	52.3 ~ 57.8	1.05	1.00 ~ 1.10
1450	54.0	51.3 ~ 56.7	1.30	1.24 ~ 1.37
1640	53.8	51.1 ~ 56.5	1.40	1.33 ~ 1.47
1750	53.4	50.7 ~ 56.1	1.49	1.42 ~ 1.56
1800	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
1900	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2000	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2300	52.9	50.3 ~ 55.5	1.81	1.72 ~ 1.90
2450	52.7	50.1 ~ 55.3	1.95	1.85 ~ 2.05
2600	52.5	49.9 ~ 55.1	2.16	2.05 ~ 2.27
3500	51.3	48.7 ~ 53.9	3.31	3.14 ~ 3.48
5200	49.0	46.6 ~ 51.5	5.30	5.04 ~ 5.57
5300	48.9	46.5 ~ 51.3	5.42	5.15 ~ 5.69
5500	48.6	46.2 ~ 51.0	5.65	5.37 ~ 5.93
5600	48.5	46.1 ~ 50.9	5.77	5.48 ~ 6.06
5800	48.2	45.8 ~ 50.6	6.00	5.70 ~ 6.30

FCC SAR Test Report

The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
H750	0.2	-	0.2	1.5	56.0	-	42.1	-
H835	0.2	-	0.2	1.5	57.0	-	41.1	-
H900	0.2	-	0.2	1.4	58.0	-	40.2	-
H1450	-	43.3	-	0.6	-	-	56.1	-
H1640	-	45.8	-	0.5	-	-	53.7	-
H1750	-	47.0	-	0.4	-	-	52.6	-
H1800	-	44.5	-	0.3	-	-	55.2	-
H1900	-	44.5	-	0.2	-	-	55.3	-
H2000	-	44.5	-	0.1	-	-	55.4	-
H2300	-	44.9	-	0.1	-	-	55.0	-
H2450	-	45.0	-	0.1	-	-	54.9	-
H2600	-	45.1	-	0.1	-	-	54.8	-
H3500	-	8.0	-	0.2	-	20.0	71.8	-
H5G	-	-	-	-	-	17.2	65.5	17.3
B750	0.2	-	0.2	0.8	48.8	-	50.0	-
B835	0.2	-	0.2	0.9	48.5	-	50.2	-
B900	0.2	-	0.2	0.9	48.2	-	50.5	-
B1450	-	34.0	-	0.3	-	-	65.7	-
B1640	-	32.5	-	0.3	-	-	67.2	-
B1750	-	31.0	-	0.2	-	-	68.8	-
B1800	-	29.5	-	0.4	-	-	70.1	-
B1900	-	29.5	-	0.3	-	-	70.2	-
B2000	-	30.0	-	0.2	-	-	69.8	-
B2300	-	31.0	-	0.1	-	-	68.9	-
B2450	-	31.4	-	0.1	-	-	68.5	-
B2600	-	31.8	-	0.1	-	-	68.1	-
B3500	-	28.8	-	0.1	-	-	71.1	-
B5G	-	-	-	-	-	10.7	78.6	10.7

3.3 SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.

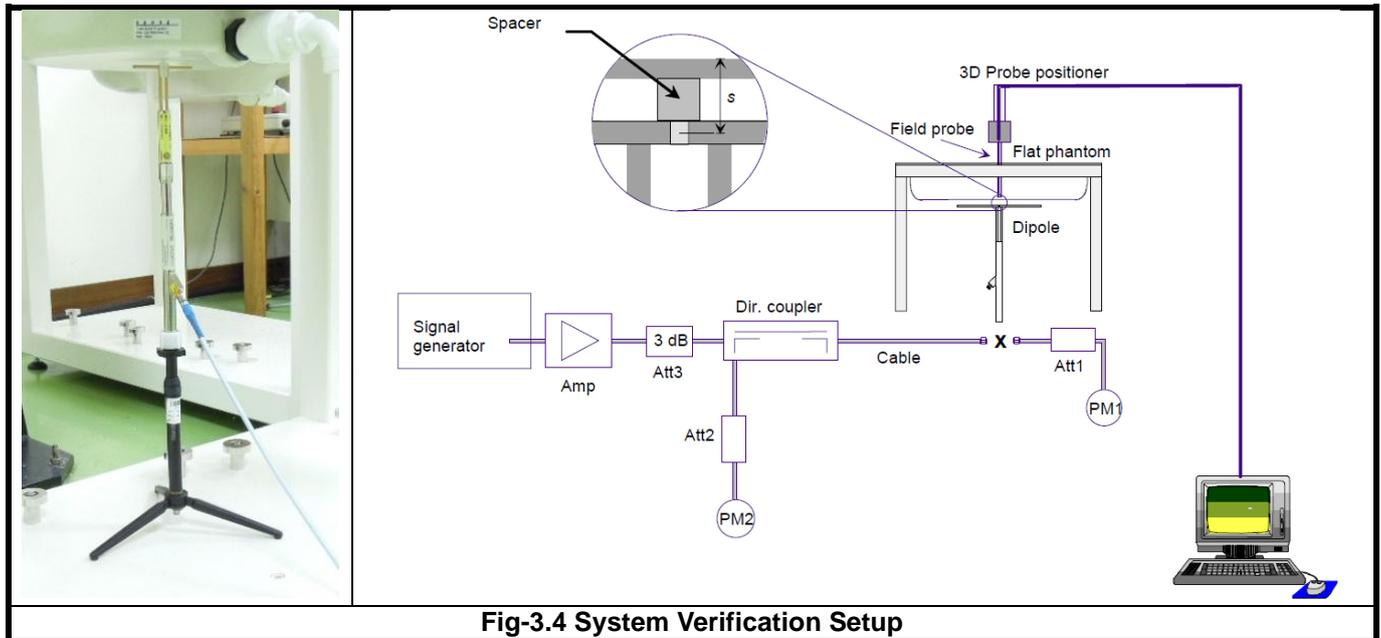


Fig-3.4 System Verification Setup

The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The power meter PM1 measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 3 GHz, 100 mW is used for 3.5 GHz to 6 GHz) at the dipole connector and the power meter PM2 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

3.4 SAR Measurement Procedure

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

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

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

3.4.1 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

Items	<= 2 GHz	2-3 GHz	3-4 GHz	4-5 GHz	5-6 GHz
Area Scan ($\Delta x, \Delta y$)	<= 15 mm	<= 12 mm	<= 12 mm	<= 10 mm	<= 10 mm
Zoom Scan ($\Delta x, \Delta y$)	<= 8 mm	<= 5 mm	<= 5 mm	<= 4 mm	<= 4 mm
Zoom Scan (Δz)	<= 5 mm	<= 5 mm	<= 4 mm	<= 3 mm	<= 2 mm
Zoom Scan Volume	>= 30 mm	>= 30 mm	>= 28 mm	>= 25 mm	>= 22 mm

Note:

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of $\Delta x / \Delta y$ (2-3GHz: <= 8 mm, 3-4GHz: <= 7 mm, 4-6GHz: <= 5 mm) may be applied.

3.4.2 Volume Scan Procedure

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

FCC SAR Test Report

3.4.3 Power Drift Monitoring

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

3.4.4 Spatial Peak SAR Evaluation

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

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

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

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

3.4.5 SAR Averaged Methods

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

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

4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

When the handset is inserted into PadFone station, it could be used as a tablet PC which supports WWAN, WLAN, Bluetooth and wireless hotspot capabilities. Because of the SAR issue, this device has designed with a proximity sensor which can trigger/not trigger power reduction for GPRS/EDGE, WCDMA, and LTE on EUT Rear Face, Top Side, and Right Side orientations for SAR compliance. Others RF capabilities (WLAN and BT) have no power reduction. In addition, since SAR testing without power reduction on Right Side still complies with SAR criteria, proximity sensor triggered on Right Side will not be considered in this report. The power levels for all wireless technologies and the power reduction please refer to section 4.6.1 of this report.

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 11 mm for EUT Rear Face, and 9 mm for Top Side. The separation distance of 9 mm determined by the smallest triggering distance on Top Side is used to assess the tilt angle influence and the sensor does not release during ± 45 degree. Therefore, the smallest separation distance for tilt angle influence is 9 mm. The details can be found in technical document. The conservative triggering distances based on the separation distance for the sensor triggered / not triggered as EUT with power reduction at 0 mm, and EUT without power reduction at 11 mm for EUT Rear Face, and 8 mm for Top Side is used to test SAR. For curved and contoured back surface issue, we have discussed with FCC through KDB and test SAR according to the test plan submitted to FCC in this report.

The power reduction is depends on the proximity sensor input. For a steady SAR test, the power reduction was enabled/disabled manually by engineering software during SAR testing.

The EUT is a voice/data transmitter device that contains one WWAN transmitter (GSM / WCDMA / LTE), and two WWAN antennas for receiving diversity. Confirming the LTE transmitter follows 3GPP standards, is category 3, FDD-LTE band 2 (BW 5/10 MHz), FDD-LTE band 4 (BW 5/10 MHz), FDD-LTE band 5 (BW 5/10 MHz), FDD-LTE band 7 (BW 5/10 MHz), FDD-LTE band 17 (BW 5/10 MHz), supports QPSK / 16QAM modulations, and supports data transmission only. Tested per 3GPP 36.521 maximum transmit procedures for both QPSK / 16QAM.

LTE Maximum Power Reduction in accordance with 3GPP 36.101: Power Reduction in accordance to 3GPP is active all times during LTE operation.

Modulation	Channel Bandwidth / RB Configurations		LTE MPR Setting (dB)
	BW 5 MHz	BW 10 MHz	
QPSK	> 8	> 12	1
16QAM	≤ 8	≤ 12	1
16QAM	> 8	> 12	2

Note: MPR is according to the standard and implemented in the circuit (mandatory).

In addition, the device is compliant with A-MPR requirements defined in 36.101 section 6.2.4 that may be required to meet 3GPP Adjacent Channel Leakage Ratio (“ACLR”) requirements. A-MPR was disabled for all FCC compliance testing.

FCC SAR Test Report

The simultaneous transmission possibilities are listed as below.

Simultaneous TX Combination	Configuration	Head (Voice / VoIP)	Body Worn (Voice / VoIP)	Hotspot (Data)
1	GSM850 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
2	GSM1900 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
3	WCDMA II (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
4	WCDMA V (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
5	LTE 2 (Data) + WLAN (Data)	Yes	Yes	Yes
6	LTE 4 (Data) + WLAN (Data)	Yes	Yes	Yes
7	LTE 5 (Data) + WLAN (Data)	Yes	Yes	Yes
8	LTE 7 (Data) + WLAN (Data)	Yes	Yes	Yes
9	LTE 17 (Data) + WLAN (Data)	Yes	Yes	Yes
10	GSM850 (Voice / Data) + BT (Data)	No	Yes	No
11	GSM1900 (Voice / Data) + BT (Data)	No	Yes	No
12	WCDMA II (Voice / Data) + BT (Data)	No	Yes	No
13	WCDMA V (Voice / Data) + BT (Data)	No	Yes	No
14	LTE 2 (Data) + BT (Data)	No	Yes	No
15	LTE 4 (Data) + BT (Data)	No	Yes	No
16	LTE 5 (Data) + BT (Data)	No	Yes	No
17	LTE 7 (Data) + BT (Data)	No	Yes	No
18	LTE 17 (Data) + BT (Data)	No	Yes	No

Note :

1. The WLAN and BT cannot transmit simultaneously.

For WWAN SAR testing, the EUT was linked and controlled by base station emulator (Agilent E5515C is used for GSM/WCDMA, and Anritsu MT8820C is used for LTE). Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing.

For GSM850, the power control level is set to 5. For GPRS850 (GMSK, CS1), the power control level is set to 5. For EDGE850 (GMSK: MCS1, 8PSK:MCS9), the power control level is set to 8. For GSM1900, the power control level is set to 0. For GPRS1900 (GMSK, CS1), the power control level is set to 0. For EDGE1900 (GMSK: MCS1, 8PSK:MCS9), the power control level is set to 2.

For WCDMA, head and body SAR is tested under 12.2k RMC mode with power control set all up bits. SAR for AMR is not required since its power is less than 1/4 dB higher than RMC. SAR for HSDPA/HSUPA is not required since its power is less than 1/4 dB higher than RMC without HSDPA/HSUPA and SAR for 12.2 kbps RMC is less than 75% of the SAR limit (1.2 W/kg).

FCC SAR Test Report

For LTE, set the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB in base station simulator. When the EUT has registered and communicated to base station simulator, set the simulator to make EUT transmitting the maximum radiated power. The steps for system simulator (Anritsu MT8820C) setup are as below.

1. Press the “Std” button to select “LTE 22.20S” function
2. Choose the “Screen Select” item to “Fundamental Measurement”
3. Enter the “Common” item
4. Set the Operating Band
5. Set the Channel Bandwidth
6. Set the UL Channel & Frequency
7. Set the Modulation
8. Set the RB number and RB shift
9. Press “Start Call” button when EUT register to the system simulator
10. Set the TX-1 Max. Power to make the EUT transmit maximum output power

For WLAN SAR testing, the EUT has installed WLAN engineering testing software which can provide continuous transmitting RF signal. According to KDB 248227 D01, WLAN SAR should tested at the lowest data rate, and testing at higher data rate is not required when the maximum average output power is less than 1/4 dB higher than those measured at the lowest data rate. Since the WLAN power at lowest data rate has highest output power, WLAN SAR for this device was performed at the lowest data rate as set in 1 Mbps for 802.11b, 6 Mbps for 802.11a and V0 for 802.11ac. This RF signal utilized in SAR measurement has 98.2% duty cycle for 802.11b, 86% duty cycle for 802.11a, and 46.8% duty cycle for 802.11ac. The duty factor is 1.02 for 802.11b, 1.16 for 802.11a, and 2.14 for 802.11ac during WLAN SAR testing.

4.2 EUT Testing Position

This EUT is a handset which can be combined into a PadFone station to be tablet PC. Since the EUT has two exposure configurations as handset and tablet, we evaluate SAR for handset and tablet mode separately.

FCC SAR Test Report

According to KDB 648474 D04, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

4.2.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2003 using the SAM phantom illustrated as below.

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

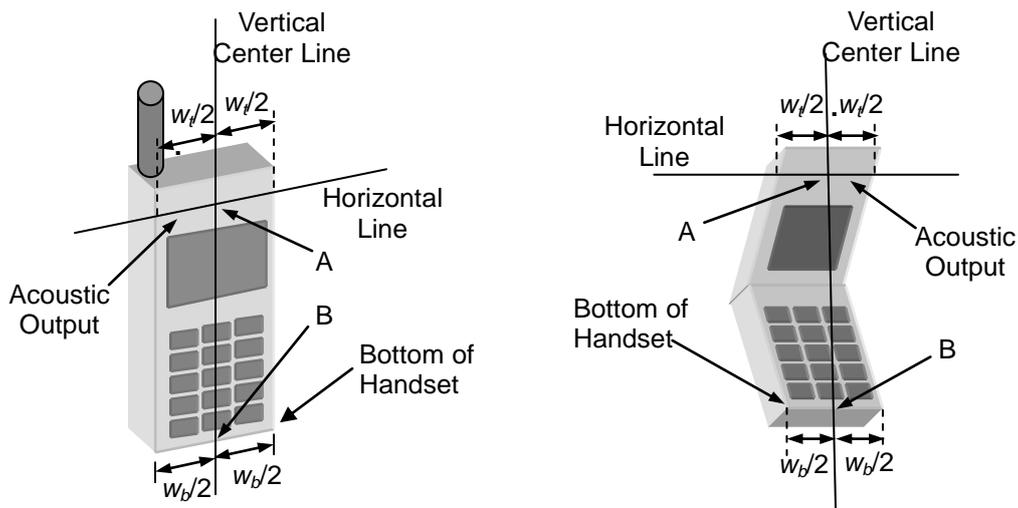


Fig-4.1 Illustration for Handset Vertical and Horizontal Reference Lines

FCC SAR Test Report

2. Cheek Position

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig-4.2).

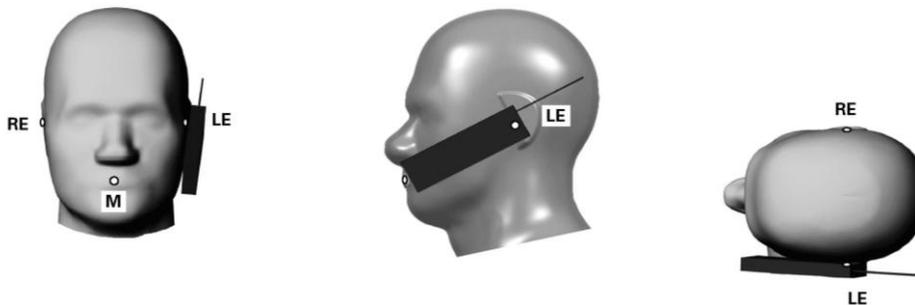


Fig-4.2 Illustration for Cheek Position

3. Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig-4.3).

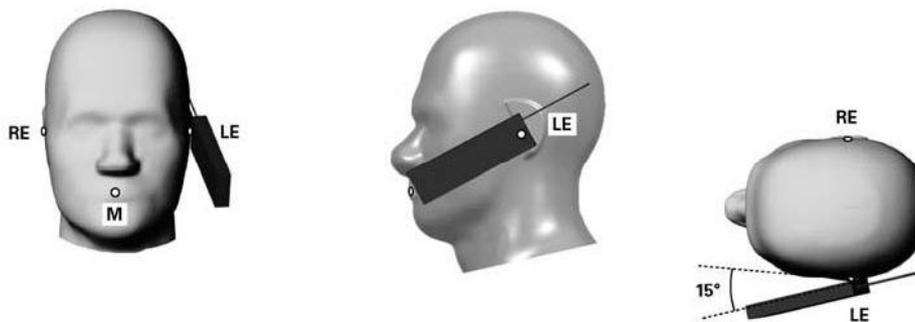


Fig-4.3 Illustration for Tilted Position

4.2.2 Body-Worn Accessory Exposure Conditions

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 KDB 447498 D01 are 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 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.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required.

A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance $\leq 5 \text{ mm}$ to support compliance.

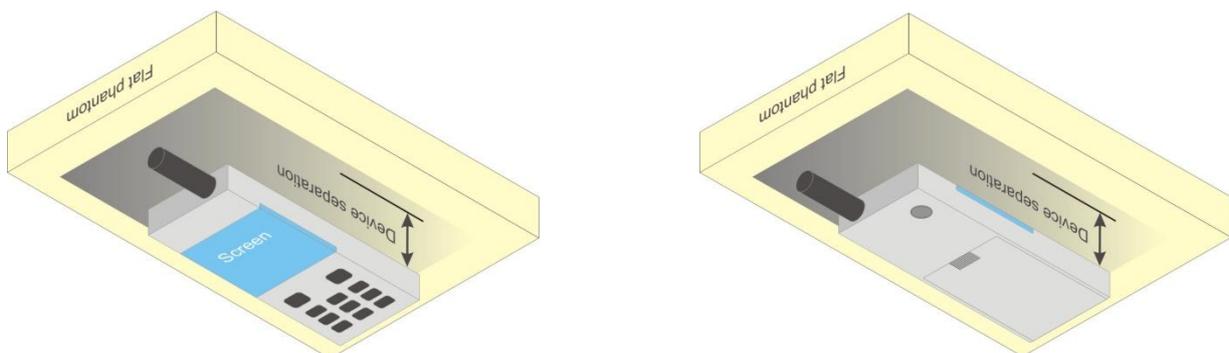
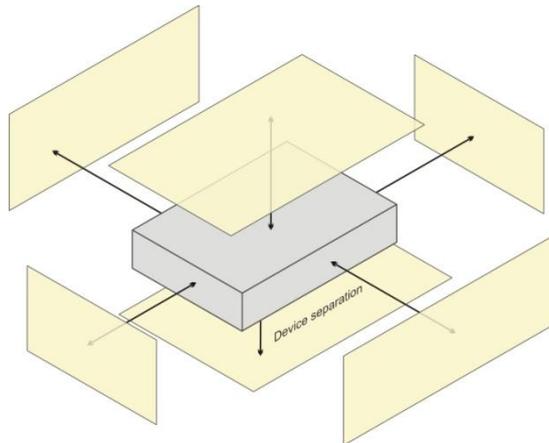


Fig-4.4 Illustration for Body Worn Position

FCC SAR Test Report

4.2.3 Hotspot Mode Exposure conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225 D06. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



Based on the antenna location shown on section 4.1 of this report, the SAR testing required for hotspot mode is listed as below.

Antenna	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
WWAN	V	V	V	V		V
WLAN / BT	V	V	V		V	

4.2.4 SAR Test Exclusions for Handset Mode

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

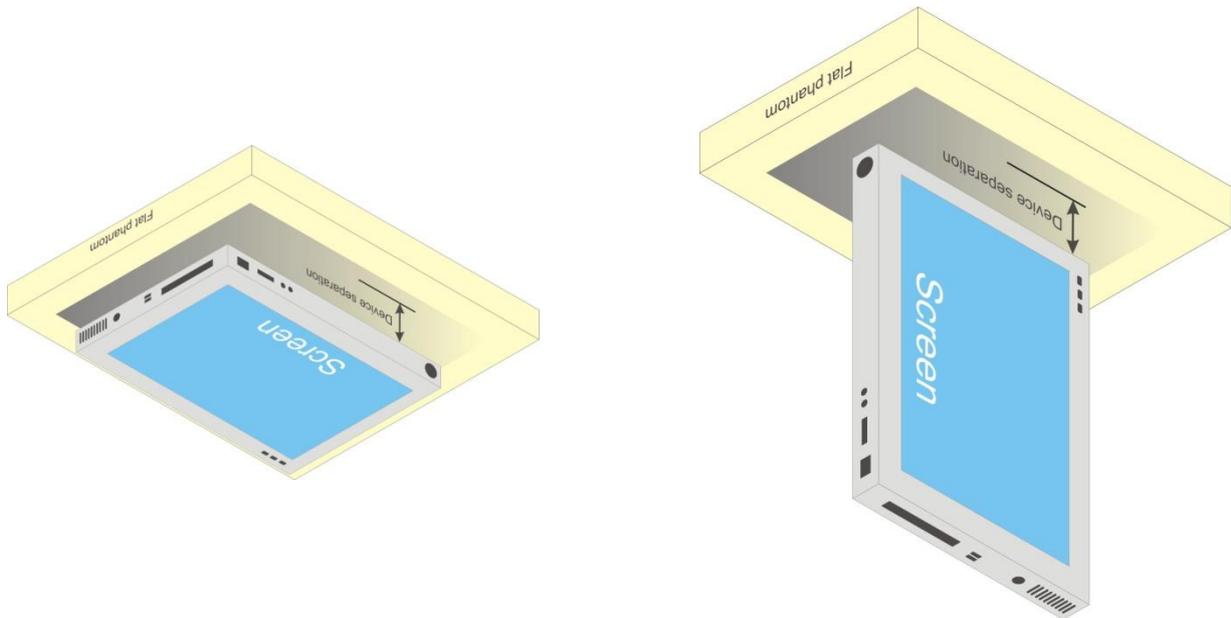
$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0 \text{ for SAR-1g, } \leq 7.5 \text{ for SAR-10g}$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Body-Worn		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
BT	10.5	11	10	1.7	No

4.2.5 Body Exposure Conditions for Tablet PC Mode

According to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

**Fig-4.5 Illustration for Tablet Setup**

FCC SAR Test Report

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. For the test separation distance ≤ 50 mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. For the test separation distance > 50 mm, and the frequency at 100 MHz to 1500 MHz

$$\left[(\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times \left(\frac{f_{(MHz)}}{150} \right) \right]_{(mW)}$$

3. For the test separation distance > 50 mm, and the frequency at > 1500 MHz to 6 GHz

$$[(\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times 10]_{(mW)}$$

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Top Side			Bottom Side			Left Side			Right Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
GSM 850	26.0	398	3.05	73.3	Yes	6.49	56.5	Yes	154.48	754 mW	No	174.51	868 mW	No	18.45	19.9	Yes
GSM 1900	23.5	224	3.05	61.9	Yes	6.49	47.7	Yes	154.48	1153 mW	No	174.51	1354 mW	No	18.45	16.8	Yes
WCDMA II	22.5	178	3.05	49.2	Yes	6.49	37.9	Yes	154.48	1153 mW	No	174.51	1354 mW	No	18.45	13.3	Yes
WCDMA V	23.0	200	3.05	36.8	Yes	6.49	28.4	Yes	154.48	753 mW	No	174.51	866 mW	No	18.45	10	Yes
LTE 2	22.6	182	3.05	50.3	Yes	6.49	38.7	Yes	154.48	1153 mW	No	174.51	1354 mW	No	18.45	13.6	Yes
LTE 4	22.6	182	3.05	48.2	Yes	6.49	37.1	Yes	154.48	1158 mW	No	174.51	1358 mW	No	18.45	13.1	Yes
LTE 5	22.4	174	3.05	32	Yes	6.49	24.7	Yes	154.48	753 mW	No	174.51	866 mW	No	18.45	8.7	Yes
LTE 7	20.6	115	3.05	19.4	Yes	6.49	15	Yes	154.48	675 mW	No	174.51	770 mW	No	18.45	5.3	Yes
LTE 17	22.4	174	3.05	29.4	Yes	6.49	22.7	Yes	154.48	675 mW	No	174.51	770 mW	No	18.45	8	Yes
WLAN 2.4G	14.5	28	2.25	8.8	Yes	5.25	8.4	Yes	153.12	1127 mW	No	91.5	511 mW	No	147.2	1068 mW	No
WLAN 5.2G	10.4	11	2.25	5	Yes	5.25	4.8	Yes	153.12	1097 mW	No	91.5	481 mW	No	147.2	1038 mW	No
WLAN 5.3G	10.0	10	2.25	4.6	Yes	5.25	4.4	Yes	153.12	1096 mW	No	91.5	480 mW	No	147.2	1037 mW	No
WLAN 5.6G	12.0	16	2.25	7.6	Yes	5.25	7.3	Yes	153.12	1094 mW	No	91.5	478 mW	No	147.2	1035 mW	No
WLAN 5.8G	12.1	16	2.25	7.7	Yes	5.25	7.4	Yes	153.12	1093 mW	No	91.5	477 mW	No	147.2	1034 mW	No
BT	10.5	11	2.25	3.5	Yes	5.25	3.3	Yes	153.12	1126 mW	No	91.5	510 mW	No	147.2	1067 mW	No

Note: The maximum tune-up power shown in above table is maximum time-averaged power.



FCC SAR Test Report

4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Measured Conductivity (σ)	Measured Permittivity (ε _r)	Target Conductivity (σ)	Target Permittivity (ε _r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Jan. 06, 2014	Head	750	20.6	0.908	40.492	0.89	41.9	2.02	-3.36
Jan. 06, 2014	Head	835	20.6	0.889	42.897	0.90	41.5	-1.22	3.37
Jan. 15, 2014	Head	1750	20.3	1.358	39.714	1.37	40.1	-0.88	-0.96
Jan. 06, 2014	Head	1900	20.9	1.442	39.194	1.40	40.0	3.00	-2.01
Jan. 15, 2014	Head	1900	20.3	1.415	40.328	1.40	40.0	1.07	0.82
Feb. 18, 2014	Head	1900	21.3	1.406	39.596	1.40	40.0	0.43	-1.01
Jan. 03, 2014	Head	2450	20.9	1.782	40.200	1.80	39.2	-1.00	2.55
Jan. 03, 2014	Head	2600	21.0	2.056	37.589	1.96	39.0	4.90	-3.62
Jan. 17, 2014	Head	5200	21.3	4.842	35.259	4.66	36.0	3.91	-2.06
Jan. 17, 2014	Head	5300	21.3	4.957	35.073	4.76	35.9	4.14	-2.30
Jan. 17, 2014	Head	5600	21.3	5.285	34.528	5.07	35.5	4.24	-2.74
Jan. 17, 2014	Head	5800	21.3	5.508	34.184	5.27	35.3	4.52	-3.16
Jan. 07, 2014	Body	750	21.2	0.967	55.240	0.96	55.5	0.73	-0.47
Jan. 16, 2014	Body	750	20.3	0.966	55.259	0.96	55.5	0.63	-0.43
Jan. 04, 2014	Body	835	20.7	0.999	56.864	0.97	55.2	2.99	3.01
Jan. 07, 2014	Body	835	21.2	0.998	56.679	0.97	55.2	2.89	2.68
Jan. 16, 2014	Body	835	20.3	0.992	55.471	0.97	55.2	2.27	0.49
Jan. 15, 2014	Body	1750	21.5	1.487	52.082	1.49	53.4	-0.20	-2.47
Jan. 03, 2014	Body	1900	21.3	1.542	53.199	1.52	53.3	1.45	-0.19
Jan. 06, 2014	Body	1900	20.7	1.552	51.953	1.52	53.3	2.11	-2.53
Jan. 06, 2014	Body	1900	21.7	1.560	53.444	1.52	53.3	2.63	0.27
Jan. 15, 2014	Body	1900	21.5	1.542	53.199	1.52	53.3	1.45	-0.19
Feb. 20, 2014	Body	1900	21.3	1.553	51.888	1.52	53.3	2.17	-2.65
Jan. 03, 2014	Body	2450	21.1	1.964	51.198	1.95	52.7	0.72	-2.85
Jan. 15, 2014	Body	2450	20.1	1.976	51.413	1.95	52.7	1.33	-2.44
Jan. 03, 2014	Body	2600	21.1	2.185	52.038	2.16	52.5	1.16	-0.88
Jan. 04, 2014	Body	2600	20.6	2.199	52.350	2.16	52.5	1.81	-0.29
Jan. 16, 2014	Body	5200	20.7	5.194	50.928	5.30	49.0	-2.00	3.93
Jan. 22, 2014	Body	5200	20.4	5.321	47.346	5.30	49.0	0.40	-3.38
Jan. 16, 2014	Body	5300	20.7	5.356	50.830	5.42	48.9	-1.18	3.95
Jan. 16, 2014	Body	5600	20.7	5.875	50.255	5.77	48.5	1.82	3.62
Jan. 22, 2014	Body	5600	20.4	5.889	46.629	5.77	48.5	2.06	-3.86
Jan. 16, 2014	Body	5800	20.7	6.178	49.756	6.00	48.2	2.97	3.23
Jan. 22, 2014	Body	5800	20.4	6.176	46.237	6.00	48.2	2.93	-4.07

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within ±5% of the target values. Liquid temperature during the SAR testing must be within ±2 °C.

FCC SAR Test Report

4.4 System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01 v01r01. The validation status in tabulated summary is as below.

Test Date	Probe S/N	Calibration Point		Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Validation for CW			Validation for Modulation		
						Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR
Jan. 06, 2014	3801	Head	750	0.908	40.492	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 06, 2014	3801	Head	835	0.889	42.897	Pass	Pass	Pass	GMSK	Pass	N/A
Jan. 15, 2014	3864	Head	1750	1.358	39.714	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 06, 2014	3801	Head	1900	1.442	39.194	Pass	Pass	Pass	GMSK	Pass	N/A
Jan. 15, 2014	3864	Head	1900	1.415	40.328	Pass	Pass	Pass	N/A	N/A	N/A
Feb. 18, 2014	3864	Head	1900	1.406	39.596	Pass	Pass	Pass	GMSK	Pass	N/A
Jan. 03, 2014	3650	Head	2450	1.782	40.200	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 03, 2014	3650	Head	2600	2.056	37.589	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 17, 2014	3864	Head	5200	4.842	35.259	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 17, 2014	3801	Head	5300	4.957	35.073	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 17, 2014	3801	Head	5600	5.285	34.528	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 17, 2014	3801	Head	5800	5.508	34.184	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 07, 2014	3650	Body	750	0.967	55.240	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 16, 2014	3864	Body	750	0.966	55.259	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 04, 2014	3650	Body	835	0.999	56.864	Pass	Pass	Pass	GMSK	Pass	N/A
Jan. 07, 2014	3650	Body	835	0.998	56.679	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 16, 2014	3864	Body	835	0.992	55.471	Pass	Pass	Pass	GMSK	Pass	N/A
Jan. 15, 2014	3864	Body	1750	1.487	52.082	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 03, 2014	3650	Body	1900	1.542	53.199	Pass	Pass	Pass	GMSK	Pass	N/A
Jan. 06, 2014	3801	Body	1900	1.552	51.953	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 06, 2014	3650	Body	1900	1.560	53.444	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 15, 2014	3864	Body	1900	1.542	53.199	Pass	Pass	Pass	GMSK	Pass	N/A
Feb. 20, 2014	3864	Body	1900	1.553	51.888	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 03, 2014	3650	Body	2450	1.964	51.198	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 15, 2014	3590	Body	2450	1.976	51.413	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 03, 2014	3650	Body	2600	2.185	52.038	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 04, 2014	3650	Body	2600	2.199	52.350	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 16, 2014	3864	Body	5200	5.194	50.928	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 22, 2014	3650	Body	5200	5.321	47.346	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 16, 2014	3864	Body	5300	5.356	50.830	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 16, 2014	3864	Body	5600	5.875	50.255	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 22, 2014	3650	Body	5600	5.889	46.629	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 16, 2014	3864	Body	5800	6.178	49.756	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 22, 2014	3650	Body	5800	6.176	46.237	Pass	Pass	Pass	OFDM	N/A	Pass



FCC SAR Test Report

4.5 System Verification

The measuring result for system verification is tabulated as below.

Test Date	Mode	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Jan. 06, 2014	Head	750	8.66	2.15	8.60	-0.69	1013	3801	579
Jan. 06, 2014	Head	835	9.68	2.31	9.24	-4.55	4d121	3801	579
Jan. 15, 2014	Head	1750	36.50	8.71	34.84	-4.55	1055	3864	1277
Jan. 06, 2014	Head	1900	40.60	9.50	38.00	-6.40	5d036	3801	579
Jan. 15, 2014	Head	1900	40.60	9.67	38.68	-4.73	5d036	3864	1277
Feb. 18, 2014	Head	1900	40.00	9.61	38.44	-3.90	5d022	3864	1277
Jan. 03, 2014	Head	2450	52.50	12.30	49.20	-6.29	737	3650	360
Jan. 03, 2014	Head	2600	57.80	14.50	58.00	0.35	1020	3650	360
Jan. 17, 2014	Head	5200	79.20	7.50	75.00	-5.30	1018	3864	1277
Jan. 17, 2014	Head	5300	82.60	7.92	79.20	-4.12	1018	3801	579
Jan. 17, 2014	Head	5600	82.80	7.64	76.40	-7.73	1018	3801	579
Jan. 17, 2014	Head	5800	79.50	7.67	76.70	-3.52	1018	3801	579
Jan. 07, 2014	Body	750	8.81	2.21	8.84	0.34	1013	3650	360
Jan. 16, 2014	Body	750	8.81	2.37	9.48	7.60	1013	3864	1277
Jan. 04, 2014	Body	835	9.69	2.32	9.28	-4.23	4d121	3650	360
Jan. 07, 2014	Body	835	9.69	2.56	10.24	5.68	4d121	3650	360
Jan. 16, 2014	Body	835	9.69	2.61	10.44	7.74	4d121	3864	1277
Jan. 15, 2014	Body	1750	36.90	9.31	37.24	0.92	1055	3864	1277
Jan. 03, 2014	Body	1900	41.00	9.87	39.48	-3.71	5d036	3650	360
Jan. 06, 2014	Body	1900	41.00	9.58	38.32	-6.54	5d036	3801	579
Jan. 06, 2014	Body	1900	41.00	10.00	40.00	-2.44	5d036	3650	360
Jan. 15, 2014	Body	1900	41.00	9.51	38.04	-7.22	5d036	3864	1277
Feb. 20, 2014	Body	1900	40.40	9.48	37.92	-6.14	5d022	3864	1277
Jan. 03, 2014	Body	2450	49.60	11.80	47.20	-4.84	737	3650	360
Jan. 15, 2014	Body	2450	49.60	12.60	50.40	1.61	737	3590	861
Jan. 03, 2014	Body	2600	55.80	13.70	54.80	-1.79	1020	3650	360
Jan. 04, 2014	Body	2600	55.80	12.90	51.60	-7.53	1020	3650	360
Jan. 16, 2014	Body	5200	74.90	7.24	72.40	-3.34	1018	3864	1277
Jan. 22, 2014	Body	5200	74.90	7.34	73.40	-2.00	1018	3650	360
Jan. 16, 2014	Body	5300	75.70	7.96	79.60	5.15	1018	3864	1277
Jan. 16, 2014	Body	5600	80.40	8.51	85.10	5.85	1018	3864	1277
Jan. 22, 2014	Body	5600	80.40	7.40	74.00	-7.96	1018	3650	360
Jan. 16, 2014	Body	5800	74.90	7.92	79.20	5.74	1018	3864	1277
Jan. 22, 2014	Body	5800	74.90	6.96	69.60	-7.08	1018	3650	360

Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

FCC SAR Test Report

4.6 Maximum Output Power

4.6.1 Maximum Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

Mode	GSM850 (without Power Reduction)	GSM850 (with Power Reduction)	Power Reduction (dBm)
GSM (GMSK, 1 Uplink)	32.0	29.5	2.5
GPRS 8 (GMSK, 1 Uplink)	32.0	29.5	2.5
GPRS 10 (GMSK, 2 Uplink)	32.0	29.5	2.5
EDGE 8 (8PSK, 1 Uplink)	27.5	27.5	0.0
EDGE 10 (8PSK, 2 Uplink)	28.0	28.0	0.0

Mode	GSM1900 (without Power Reduction)	GSM1900 (with Power Reduction)	Power Reduction (dBm)
GSM (GMSK, 1 Uplink)	29.5	26.5	3.0
GPRS 8 (GMSK, 1 Uplink)	29.5	26.5	3.0
GPRS 10 (GMSK, 2 Uplink)	29.5	26.5	3.0
EDGE 8 (8PSK, 1 Uplink)	26.5	26.5	0.0
EDGE 10 (8PSK, 2 Uplink)	26.5	26.5	0.0

Mode	WCDMA Band II (without Power Reduction)	WCDMA Band II (with Power Reduction)	Power Reduction (dBm)
RMC 12.2K	22.5	20.0	2.5

Mode	WCDMA Band V (without Power Reduction)	WCDMA Band V (with Power Reduction)	Power Reduction (dBm)
RMC 12.2K	23.0	20.5	2.5

Mode	LTE 2 (without Power Reduction)	LTE 2 (with Power Reduction)	Power Reduction (dBm)
QPSK	22.6	20.8	1.8

Mode	LTE 4 (without Power Reduction)	LTE 4 (with Power Reduction)	Power Reduction (dBm)
QPSK	22.6	19.6	3.0

Mode	LTE 5 (without Power Reduction)	LTE 5 (with Power Reduction)	Power Reduction (dBm)
QPSK	22.4	20.7	1.7

Mode	LTE 7 (without Power Reduction)	LTE 7 (with Power Reduction)	Power Reduction (dBm)
QPSK	20.6	11.8	8.8

Mode	LTE 17 (without Power Reduction)	LTE 17 (with Power Reduction)	Power Reduction (dBm)
QPSK	22.4	21.6	0.8



FCC SAR Test Report

<WLAN Target Power on Handset Mode>

Mode	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
802.11b	14.5	N/A	N/A	N/A	N/A
802.11g	14.0	N/A	N/A	N/A	N/A
802.11a	N/A	15.5	15.1	15.5	15.5
802.11n HT20	13.5	15.5	15.1	15.5	15.5
802.11n HT40	N/A	14.5	14.5	14.5	14.5
802.11ac VHT80	N/A	13.0	13.5	13.0	13.0

<WLAN Target Power on Tablet PC Mode>

Mode	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
802.11b	14.5	N/A	N/A	N/A	N/A
802.11g	14.0	N/A	N/A	N/A	N/A
802.11a	N/A	10.4	10.0	12.0	12.1
802.11n HT20	13.5	10.4	10.0	12.0	12.1
802.11n HT40	N/A	10.4	9.5	12.0	12.0
802.11ac VHT80	N/A	9.5	10.0	12.0	12.1

Mode	Bluetooth
All	10.5

4.6.2 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) is shown as below.

Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
EUT without Power Reduction (P-Sensor NOT Triggered)						
Maximum Burst-Averaged Output Power						
GSM (GMSK, 1 Uplink)	31.79	31.86	31.91	28.89	29.01	29.23
GPRS 8 (GMSK, 1 Uplink)	31.81	31.88	31.93	28.95	29.07	29.29
GPRS 10 (GMSK, 2 Uplink)	31.78	31.85	31.90	28.91	29.01	29.25
EDGE 8 (8PSK, 1 Uplink)	27.25	27.32	27.37	25.77	25.89	26.11
EDGE 10 (8PSK, 2 Uplink)	27.88	27.95	28.00	25.73	25.85	26.07
Maximum Frame-Averaged Output Power						
GSM (GMSK, 1 Uplink)	22.79	22.86	22.91	19.89	20.01	20.23
GPRS 8 (GMSK, 1 Uplink)	22.81	22.88	22.93	19.95	20.07	20.29
GPRS 10 (GMSK, 2 Uplink)	25.78	25.85	25.90	22.91	23.01	23.25
EDGE 8 (8PSK, 1 Uplink)	18.25	18.32	18.37	16.77	16.89	17.11
EDGE 10 (8PSK, 2 Uplink)	21.88	21.95	22.00	19.73	19.85	20.07
EUT with Power Reduction (P-Sensor Triggered)						
Maximum Burst-Averaged Output Power						
GSM (GMSK, 1 Uplink)	29.36	28.99	29.43	26.28	26.35	26.30
GPRS 8 (GMSK, 1 Uplink)	29.11	28.93	29.34	26.24	26.32	26.28
GPRS 10 (GMSK, 2 Uplink)	28.94	28.79	29.22	26.17	26.31	26.16
EDGE 8 (8PSK, 1 Uplink)	27.35	27.42	27.47	26.20	26.04	25.97
EDGE 10 (8PSK, 2 Uplink)	27.40	27.22	27.54	26.10	26.02	25.93
Maximum Frame-Averaged Output Power						
GSM (GMSK, 1 Uplink)	20.36	19.99	20.43	17.28	17.35	17.30
GPRS 8 (GMSK, 1 Uplink)	20.11	19.93	20.34	17.24	17.32	17.28
GPRS 10 (GMSK, 2 Uplink)	22.94	22.79	23.22	20.17	20.31	20.16
EDGE 8 (8PSK, 1 Uplink)	18.35	18.42	18.47	17.20	17.04	16.97
EDGE 10 (8PSK, 2 Uplink)	21.40	21.22	21.54	20.10	20.02	19.93

Note:

- SAR testing was performed on the maximum frame-averaged power mode.
- The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

$$\text{Frame-averaged power} = 10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8)$$



FCC SAR Test Report

A D T

Band Channel Frequency (MHz)	WCDMA Band II			WCDMA Band V			3GPP MPR (dB)
	9262 1852.4	9400 1880.0	9538 1907.6	4132 826.4	4182 836.4	4233 846.6	
EUT without Power Reduction (P-Sensor NOT Triggered)							
RMC 12.2K	22.31	22.28	22.32	22.33	22.63	22.81	-
HSDPA Subtest-1	21.34	21.31	21.35	21.51	21.81	21.99	0
HSDPA Subtest-2	21.33	21.30	21.34	21.52	21.82	22.00	0
HSDPA Subtest-3	20.83	20.80	20.84	21.18	21.48	21.66	0.5
HSDPA Subtest-4	20.85	20.82	20.86	21.17	21.47	21.65	0.5
HSUPA Subtest-1	21.33	21.30	21.34	21.00	21.30	21.48	0
HSUPA Subtest-2	19.57	19.54	19.58	19.44	19.74	19.92	2
HSUPA Subtest-3	20.14	20.11	20.15	20.25	20.55	20.73	1
HSUPA Subtest-4	19.29	19.26	19.30	19.22	19.52	19.70	2
HSUPA Subtest-5	21.36	21.33	21.37	21.30	21.50	21.68	0
EUT with Power Reduction (P-Sensor Triggered)							
RMC 12.2K	19.93	19.98	19.90	20.35	20.31	19.84	-
HSDPA Subtest-1	19.09	19.14	19.06	19.25	19.21	18.74	-
HSDPA Subtest-2	18.93	18.98	18.90	19.24	19.20	18.73	-
HSDPA Subtest-3	18.91	18.96	18.88	19.22	19.18	18.71	-
HSDPA Subtest-4	18.72	18.77	18.69	19.08	19.04	18.57	-
HSUPA Subtest-1	18.53	18.58	18.50	18.61	18.57	18.10	-
HSUPA Subtest-2	18.37	18.42	18.34	18.55	18.51	18.04	-
HSUPA Subtest-3	18.35	18.40	18.32	18.29	18.25	17.78	-
HSUPA Subtest-4	17.94	17.99	17.91	18.19	18.15	17.68	-
HSUPA Subtest-5	17.55	17.60	17.52	18.00	17.96	17.49	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 18625	Mid CH 18900	High CH 19175	3GPP MPR (dB)
				Frequency 1852.5 MHz	Frequency 1880.0 MHz	Frequency 1907.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
2 / 5M	QPSK	1	0	22.25	22.16	22.36	0
		1	12	22.44	22.15	22.54	0
		1	24	22.14	21.94	22.28	0
		12	0	21.39	21.25	21.44	1
		12	6	21.45	21.32	21.42	1
		12	13	21.43	21.22	21.35	1
	25	0	21.41	21.28	21.40	1	
	16QAM	1	0	21.21	21.12	21.32	1
		1	12	21.40	21.11	21.50	1
		1	24	21.10	20.90	21.24	1
		12	0	20.35	20.21	20.40	2
		12	6	20.41	20.28	20.38	2
		12	13	20.39	20.18	20.31	2
	25	0	20.37	20.24	20.36	2	
EUT with Power Reduction (P-Sensor Triggered)							
2 / 5M	QPSK	1	0	20.46	20.43	20.44	-
		1	12	20.59	20.46	20.51	-
		1	24	20.50	20.38	20.43	-
		12	0	19.60	19.51	19.56	-
		12	6	19.57	19.48	19.52	-
		12	13	19.60	19.45	19.47	-
	25	0	19.56	19.45	19.47	-	
	16QAM	1	0	19.36	19.33	19.34	-
		1	12	19.49	19.36	19.41	-
		1	24	19.40	19.28	19.33	-
		12	0	18.50	18.41	18.46	-
		12	6	18.47	18.38	18.42	-
		12	13	18.50	18.35	18.37	-
	25	0	18.46	18.35	18.37	-	



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 18650	Mid CH 18900	High CH 19150	3GPP MPR (dB)
				Frequency 1855.0 MHz	Frequency 1880.0 MHz	Frequency 1905.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
2 / 10M	QPSK	1	0	22.27	22.18	22.38	0
		1	24	22.46	22.17	22.56	0
		1	49	22.16	21.96	22.30	0
		25	0	21.41	21.27	21.46	1
		25	12	21.47	21.34	21.44	1
		25	25	21.45	21.24	21.37	1
	50	0	21.43	21.30	21.42	1	
	16QAM	1	0	21.24	21.15	21.35	1
		1	24	21.43	21.14	21.53	1
		1	49	21.13	20.93	21.27	1
		25	0	20.38	20.24	20.43	2
		25	12	20.44	20.31	20.41	2
		25	25	20.42	20.21	20.34	2
		50	0	20.40	20.27	20.39	2
EUT with Power Reduction (P-Sensor Triggered)							
2 / 10M	QPSK	1	0	20.58	20.55	20.56	-
		1	24	20.71	20.58	20.63	-
		1	49	20.62	20.50	20.55	-
		25	0	19.72	19.63	19.68	-
		25	12	19.69	19.60	19.64	-
		25	25	19.72	19.57	19.59	-
	50	0	19.68	19.57	19.59	-	
	16QAM	1	0	19.48	19.45	19.46	-
		1	24	19.61	19.48	19.53	-
		1	49	19.52	19.40	19.45	-
		25	0	18.62	18.53	18.58	-
		25	12	18.59	18.50	18.54	-
		25	25	18.62	18.47	18.49	-
		50	0	18.58	18.47	18.49	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375	3GPP MPR (dB)
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
4 / 5M	QPSK	1	0	22.21	22.26	22.34	0
		1	12	22.08	22.41	22.51	0
		1	24	22.08	22.16	22.33	0
		12	0	21.21	21.30	21.43	1
		12	6	21.20	21.28	21.47	1
		12	13	21.21	21.26	21.47	1
		25	0	21.27	21.29	21.42	1
	16QAM	1	0	21.17	21.22	21.30	1
		1	12	21.04	21.37	21.47	1
		1	24	21.04	21.12	21.29	1
		12	0	20.17	20.26	20.39	2
		12	6	20.16	20.24	20.43	2
		12	13	20.17	20.22	20.43	2
		25	0	20.23	20.25	20.38	2
EUT with Power Reduction (P-Sensor Triggered)							
4 / 5M	QPSK	1	0	19.13	19.31	19.34	-
		1	12	19.23	19.27	19.43	-
		1	24	19.15	19.18	19.46	-
		12	0	18.17	18.31	18.40	-
		12	6	18.18	18.33	18.34	-
		12	13	18.13	18.30	18.43	-
		25	0	18.16	18.35	18.36	-
	16QAM	1	0	18.03	18.21	18.24	-
		1	12	18.13	18.17	18.33	-
		1	24	18.05	18.08	18.36	-
		12	0	17.07	17.21	17.30	-
		12	6	17.08	17.23	17.24	-
		12	13	17.03	17.20	17.33	-
		25	0	17.06	17.25	17.26	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	3GPP MPR (dB)
				Frequency 1715.0 MHz	Frequency 1732.5 MHz	Frequency 1750.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
4 / 10M	QPSK	1	0	22.23	22.28	22.36	0
		1	24	22.10	22.43	22.53	0
		1	49	22.10	22.18	22.35	0
		25	0	21.23	21.32	21.45	1
		25	12	21.22	21.30	21.49	1
		25	25	21.23	21.28	21.49	1
		50	0	21.29	21.31	21.44	1
	16QAM	1	0	21.20	21.25	21.33	1
		1	24	21.07	21.40	21.50	1
		1	49	21.07	21.15	21.32	1
		25	0	20.20	20.29	20.42	2
		25	12	20.19	20.27	20.46	2
		25	25	20.20	20.25	20.46	2
		50	0	20.26	20.28	20.41	2
EUT with Power Reduction (P-Sensor Triggered)							
4 / 10M	QPSK	1	0	19.26	19.44	19.47	-
		1	24	19.36	19.40	19.56	-
		1	49	19.28	19.31	19.59	-
		25	0	18.30	18.44	18.53	-
		25	12	18.31	18.46	18.47	-
		25	25	18.26	18.43	18.56	-
		50	0	18.29	18.48	18.49	-
	16QAM	1	0	18.16	18.34	18.37	-
		1	24	18.26	18.30	18.46	-
		1	49	18.18	18.21	18.49	-
		25	0	17.20	17.34	17.43	-
		25	12	17.21	17.36	17.37	-
		25	25	17.16	17.33	17.46	-
		50	0	17.19	17.38	17.39	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625	3GPP MPR (dB)
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
5 / 5M	QPSK	1	0	22.20	21.86	22.07	0
		1	12	22.25	22.09	22.24	0
		1	24	21.87	22.08	21.98	0
		12	0	21.23	20.98	21.16	1
		12	6	21.12	20.95	21.21	1
		12	13	21.03	21.00	20.99	1
		25	0	21.11	20.97	21.13	1
	16QAM	1	0	21.22	20.88	21.09	1
		1	12	21.27	21.11	21.26	1
		1	24	20.89	21.10	21.00	1
		12	0	20.25	20.00	20.18	2
		12	6	20.14	19.97	20.23	2
		12	13	20.05	20.02	20.01	2
		25	0	20.13	19.99	20.15	2
EUT with Power Reduction (P-Sensor Triggered)							
5 / 5M	QPSK	1	0	20.53	20.37	20.31	-
		1	12	20.52	20.49	20.43	-
		1	24	20.50	20.31	20.30	-
		12	0	19.51	19.44	19.31	-
		12	6	19.49	19.44	19.29	-
		12	13	19.50	19.41	19.36	-
		25	0	19.49	19.47	19.34	-
	16QAM	1	0	19.49	19.33	19.27	-
		1	12	19.48	19.45	19.39	-
		1	24	19.46	19.27	19.26	-
		12	0	18.47	18.40	18.27	-
		12	6	18.45	18.40	18.25	-
		12	13	18.46	18.37	18.32	-
		25	0	18.45	18.43	18.30	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600	3GPP MPR (dB)
				Frequency 829.0 MHz	Frequency 836.5 MHz	Frequency 844.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
5 / 10M	QPSK	1	0	22.26	21.92	22.13	0
		1	24	22.31	22.15	22.30	0
		1	49	21.93	22.14	22.04	0
		25	0	21.29	21.04	21.22	1
		25	12	21.18	21.01	21.27	1
		25	25	21.09	21.06	21.05	1
	50	0	21.17	21.03	21.19	1	
	16QAM	1	0	21.23	20.89	21.10	1
		1	24	21.28	21.12	21.27	1
		1	49	20.90	21.11	21.01	1
		25	0	20.26	20.01	20.19	2
		25	12	20.15	19.98	20.24	2
		25	25	20.06	20.03	20.02	2
		50	0	20.14	20.00	20.16	2
EUT with Power Reduction (P-Sensor Triggered)							
5 / 10M	QPSK	1	0	20.64	20.48	20.42	-
		1	24	20.63	20.60	20.54	-
		1	49	20.61	20.42	20.41	-
		25	0	19.62	19.55	19.42	-
		25	12	19.60	19.55	19.40	-
		25	25	19.61	19.52	19.47	-
	50	0	19.60	19.58	19.45	-	
	16QAM	1	0	19.60	19.44	19.38	-
		1	24	19.59	19.56	19.50	-
		1	49	19.57	19.38	19.37	-
		25	0	18.58	18.51	18.38	-
		25	12	18.56	18.51	18.36	-
		25	25	18.57	18.48	18.43	-
		50	0	18.56	18.54	18.41	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 20775	Mid CH 21100	High CH 21425	3GPP MPR (dB)
				Frequency 2502.5 MHz	Frequency 2535.0 MHz	Frequency 2567.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
7 / 5M	QPSK	1	0	20.32	20.01	20.04	0
		1	12	20.40	20.09	20.22	0
		1	24	20.29	19.90	20.20	0
		12	0	19.42	19.19	19.22	1
		12	6	19.49	19.17	19.24	1
		12	13	19.40	19.12	19.25	1
		25	0	19.44	19.14	19.25	1
	16QAM	1	0	19.31	19.00	19.03	1
		1	12	19.39	19.08	19.21	1
		1	24	19.28	18.89	19.19	1
		12	0	18.41	18.18	18.21	2
		12	6	18.48	18.16	18.23	2
		12	13	18.39	18.11	18.24	2
		25	0	18.43	18.13	18.24	2
EUT with Power Reduction (P-Sensor Triggered)							
7 / 5M	QPSK	1	0	11.60	11.26	11.00	-
		1	12	11.57	11.51	11.43	-
		1	24	11.56	11.47	11.39	-
		12	0	11.17	11.01	10.93	-
		12	6	11.24	11.38	10.89	-
		12	13	11.29	11.02	10.97	-
		25	0	11.02	10.96	10.85	-
	16QAM	1	0	10.50	10.16	9.90	-
		1	12	10.47	10.41	10.33	-
		1	24	10.46	10.37	10.29	-
		12	0	10.07	9.91	9.83	-
		12	6	10.14	10.28	9.79	-
		12	13	10.19	9.92	9.87	-
		25	0	9.92	9.86	9.75	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 20800	Mid CH 21100	High CH 21400	3GPP MPR (dB)
				Frequency 2505.0 MHz	Frequency 2535.0 MHz	Frequency 2565.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
7 / 10M	QPSK	1	0	20.44	20.13	20.16	0
		1	24	20.52	20.21	20.34	0
		1	49	20.41	20.02	20.32	0
		25	0	19.54	19.31	19.34	1
		25	12	19.58	19.29	19.36	1
		25	25	19.52	19.24	19.37	1
		50	0	19.56	19.26	19.37	1
	16QAM	1	0	19.43	19.12	19.15	1
		1	24	19.51	19.20	19.33	1
		1	49	19.40	19.01	19.31	1
		25	0	18.53	18.30	18.33	2
		25	12	18.60	18.28	18.35	2
		25	25	18.51	18.23	18.36	2
		50	0	18.55	18.25	18.36	2
EUT with Power Reduction (P-Sensor Triggered)							
7 / 10M	QPSK	1	0	11.72	11.38	11.12	-
		1	24	11.69	11.63	11.55	-
		1	49	11.68	11.59	11.51	-
		25	0	10.29	10.13	10.05	-
		25	12	10.36	10.50	10.01	-
		25	25	10.41	10.14	10.09	-
		50	0	10.14	10.08	9.97	-
	16QAM	1	0	10.62	10.28	10.02	-
		1	24	10.59	10.53	10.45	-
		1	49	10.58	10.49	10.41	-
		25	0	10.19	10.03	9.95	-
		25	12	10.26	10.40	9.91	-
		25	25	10.31	10.04	9.99	-
		50	0	10.04	9.98	9.87	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 23755	Mid CH 23790	High CH 23825	3GPP MPR (dB)
				Frequency 706.5 MHz	Frequency 710.0 MHz	Frequency 713.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
17 / 5M	QPSK	1	0	22.02	21.98	21.97	0
		1	12	22.28	22.25	22.24	0
		1	24	22.06	21.91	21.89	0
		12	0	21.14	21.22	21.23	1
		12	6	21.24	21.21	21.22	1
		12	13	21.25	21.19	21.16	1
		25	0	21.27	21.20	21.13	1
	16QAM	1	0	20.99	20.95	20.94	1
		1	12	21.25	21.22	21.21	1
		1	24	21.03	20.88	20.86	1
		12	0	20.11	20.19	20.20	2
		12	6	20.21	20.18	20.19	2
		12	13	20.22	20.16	20.13	2
		25	0	20.24	20.17	20.10	2
EUT with Power Reduction (P-Sensor Triggered)							
17 / 5M	QPSK	1	0	21.08	21.09	21.07	-
		1	12	21.31	21.40	21.30	-
		1	24	21.18	21.20	21.17	-
		12	0	20.32	20.33	20.27	-
		12	6	20.34	20.35	20.33	-
		12	13	20.37	20.38	20.24	-
		25	0	20.34	20.37	20.30	-
	16QAM	1	0	20.06	20.07	20.05	-
		1	12	20.29	20.38	20.28	-
		1	24	20.16	20.18	20.15	-
		12	0	19.30	19.31	19.25	-
		12	6	19.32	19.33	19.31	-
		12	13	19.35	19.36	19.22	-
		25	0	19.32	19.35	19.28	-



FCC SAR Test Report

A D T

Band / BW	Modulation	RB Size	RB Offset	Low CH 23780	Mid CH 23790	High CH 23800	3GPP MPR (dB)
				Frequency 709.0 MHz	Frequency 710.0 MHz	Frequency 711.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)							
17 / 10M	QPSK	1	0	22.06	22.02	22.01	0
		1	24	22.32	22.29	22.28	0
		1	49	22.10	21.95	21.93	0
		25	0	21.18	21.26	21.27	1
		25	12	21.28	21.25	21.26	1
		25	25	21.29	21.23	21.20	1
	16QAM	50	0	21.31	21.24	21.17	1
		1	0	21.01	20.97	20.96	1
		1	24	21.27	21.24	21.23	1
		1	49	21.05	20.90	20.88	1
		25	0	20.13	20.21	20.22	2
		25	12	20.23	20.20	20.21	2
		25	25	20.24	20.18	20.15	2
		50	0	20.26	20.19	20.12	2
EUT with Power Reduction (P-Sensor Triggered)							
17 / 10M	QPSK	1	0	21.22	21.23	21.21	-
		1	24	21.45	21.54	21.44	-
		1	49	21.32	21.34	21.31	-
		25	0	20.46	20.47	20.41	-
		25	12	20.48	20.49	20.47	-
		25	25	20.51	20.52	20.38	-
	16QAM	50	0	20.48	20.51	20.44	-
		1	0	20.20	20.21	20.19	-
		1	24	20.43	20.52	20.42	-
		1	49	20.30	20.32	20.29	-
		25	0	19.44	19.45	19.39	-
		25	12	19.46	19.47	19.45	-
		25	25	19.49	19.50	19.36	-
		50	0	19.46	19.49	19.42	-



FCC SAR Test Report

<Handset Mode, WLAN 2.4G>

Mode	802.11b		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power	14.41	13.61	13.46
Mode	802.11g		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power	13.29	14.00	12.22
Mode	802.11n (HT20)		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power	12.47	13.48	12.13

<Handset Mode, WLAN 5.2G>

Mode	802.11a			
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)
Average Power	15.16	14.74	15.08	15.25
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)
Average Power	15.29	14.74	15.33	15.27
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	38 (5190)		46 (5230)	
Average Power	14.10		14.22	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	42 (5210)			
Average Power	12.94			

<Handset Mode, WLAN 5.3G>

Mode	802.11a			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power	15.09	14.84	15.08	14.93
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power	14.94	14.87	15.04	14.95
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	54 (5270)		62 (5310)	
Average Power	14.04		14.09	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	58 (5290)			
Average Power	13.15			

<Handset Mode, WLAN 5.6G>

Mode	802.11a							
Channel / Frequency (MHz)	100 (5500)	104 (5520)	108 (5540)	112 (5560)	116 (5580)	132 (5660)	136 (5680)	140 (5700)
Average Power	15.16	14.92	14.82	14.91	15.31	15.10	15.23	15.32
Mode	802.11n (HT20)							
Channel / Frequency (MHz)	100 (5500)	104 (5520)	108 (5540)	112 (5560)	116 (5580)	132 (5660)	136 (5680)	140 (5700)
Average Power	15.19	15.03	14.90	15.01	15.21	15.18	15.23	15.43
Mode	802.11n (HT40)							
Channel / Frequency (MHz)	102 (5510)				134 (5670)			
Average Power	14.23				14.27			
Mode	802.11ac (VHT80)							
Channel / Frequency (MHz)	106 (5530)							
Average Power	12.90							



FCC SAR Test Report

<Handset Mode, WLAN 5.8G>

Mode	802.11a			
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)
Average Power	14.75	15.19	15.24	15.33
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)
Average Power	15.08	15.18	15.27	15.33
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	151 (5755)		159 (5795)	
Average Power	13.99		14.17	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	155 (5775)			
Average Power	12.95			

<Tablet PC Mode, WLAN 2.4G>

Mode	802.11b		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power	14.41	13.61	13.46
Mode	802.11g		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power	13.29	14.00	12.22
Mode	802.11n (HT20)		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power	12.47	13.48	12.13

<Tablet PC Mode, WLAN 5.2G>

Mode	802.11a			
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)
Average Power	9.72	9.51	10.10	10.34
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)
Average Power	9.91	9.63	10.01	10.20
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	38 (5190)		46 (5230)	
Average Power	9.76		10.15	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	42 (5210)			
Average Power	9.33			



FCC SAR Test Report

A D T

<Tablet PC Mode, WLAN 5.3G>

Mode	802.11a			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power	9.56	9.47	9.49	9.12
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power	9.49	9.50	9.53	9.09
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	54 (5270)		62 (5310)	
Average Power	9.43		9.32	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	58 (5290)			
Average Power	9.97			

<Tablet PC Mode, WLAN 5.6G>

Mode	802.11a							
Channel / Frequency (MHz)	100 (5500)	104 (5520)	108 (5540)	112 (5560)	116 (5580)	132 (5660)	136 (5680)	140 (5700)
Average Power	11.43	11.29	11.33	11.40	11.59	11.55	11.56	11.97
Mode	802.11n (HT20)							
Channel / Frequency (MHz)	100 (5500)	104 (5520)	108 (5540)	112 (5560)	116 (5580)	132 (5660)	136 (5680)	140 (5700)
Average Power	11.40	11.47	11.35	11.46	11.54	11.52	11.68	11.88
Mode	802.11n (HT40)							
Channel / Frequency (MHz)	102 (5510)				134 (5670)			
Average Power	11.35				11.71			
Mode	802.11ac (VHT80)							
Channel / Frequency (MHz)	106 (5530)							
Average Power	11.77							

<Tablet PC Mode, WLAN 5.8G>

Mode	802.11a			
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)
Average Power	11.58	11.79	11.93	12.08
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)
Average Power	11.71	11.87	11.95	12.01
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	151 (5755)		159 (5795)	
Average Power	11.76		11.95	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	155 (5775)			
Average Power	12.03			

Mode	Bluetooth		
Channel / Frequency (MHz)	0 (2402)	39 (2441)	78 (2480)
Average Power	10.33	10.14	10.03

4.7 SAR Testing Results

4.7.1 SAR Results for Head (for Handset Mode)

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
01	GSM850	GPRS10	Right Cheek	251	1	32.0	31.90	1.02	-0.01	0.284	0.29
	GSM850	GPRS10	Right Tilted	251	1	32.0	31.90	1.02	-0.01	0.18	0.18
	GSM850	GPRS10	Left Cheek	251	1	32.0	31.90	1.02	0.09	0.242	0.25
	GSM850	GPRS10	Left Tilted	251	1	32.0	31.90	1.02	-0.02	0.182	0.19
	GSM850	GPRS10	Right Cheek	251	2	32.0	31.90	1.02	-0.03	0.282	0.29
02	GSM1900	GPRS10	Right Cheek	810	1	29.5	29.25	1.06	0.19	0.241	0.26
	GSM1900	GPRS10	Right Tilted	810	1	29.5	29.25	1.06	0.09	0.173	0.18
	GSM1900	GPRS10	Left Cheek	810	1	29.5	29.25	1.06	0.02	0.439	0.47
	GSM1900	GPRS10	Left Tilted	810	1	29.5	29.25	1.06	0.04	0.102	0.11
	GSM1900	GPRS10	Left Cheek	810	2	29.5	29.25	1.06	0.05	0.577	0.61
03	WCDMA II	RMC12.2K	Right Cheek	9538	1	22.5	22.32	1.04	0.12	0.298	0.31
	WCDMA II	RMC12.2K	Right Tilted	9538	1	22.5	22.32	1.04	0.09	0.183	0.19
	WCDMA II	RMC12.2K	Left Cheek	9538	1	22.5	22.32	1.04	0.07	0.514	0.54
	WCDMA II	RMC12.2K	Left Tilted	9538	1	22.5	22.32	1.04	0.00	0.127	0.13
	WCDMA II	RMC12.2K	Left Cheek	9538	2	22.5	22.32	1.04	0.06	0.511	0.53
04	WCDMA V	RMC12.2K	Right Cheek	4233	1	23.0	22.81	1.04	0.10	0.169	0.18
	WCDMA V	RMC12.2K	Right Tilted	4233	1	23.0	22.81	1.04	-0.08	0.098	0.10
	WCDMA V	RMC12.2K	Left Cheek	4233	1	23.0	22.81	1.04	0.16	0.141	0.15
	WCDMA V	RMC12.2K	Left Tilted	4233	1	23.0	22.81	1.04	0.02	0.097	0.10
	WCDMA V	RMC12.2K	Right Cheek	4233	2	23.0	22.81	1.04	0.12	0.163	0.17

Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is ≤ 0.8 W/kg, SAR testing for optional channel is not required.
- Since GPRS/EDGE of this device supports VOIP capability through 3rd party apps software, we have evaluated data mode for head SAR.



FCC SAR Test Report

A D T

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 2	QPSK10M	Right Cheek	19150	1	1	24	22.6	22.56	1.01	-0.02	0.218	0.22
	LTE 2	QPSK10M	Right Tilted	19150	1	1	24	22.6	22.56	1.01	-0.04	0.192	0.19
05	LTE 2	QPSK10M	Left Cheek	19150	1	1	24	22.6	22.56	1.01	0.03	0.572	0.58
	LTE 2	QPSK10M	Left Tilted	19150	1	1	24	22.6	22.56	1.01	-0.11	0.167	0.17
	LTE 2	QPSK10M	Right Cheek	18650	1	25	12	21.6	21.47	1.03	0.07	0.174	0.18
	LTE 2	QPSK10M	Right Tilted	18650	1	25	12	21.6	21.47	1.03	-0.04	0.118	0.12
	LTE 2	QPSK10M	Left Cheek	18650	1	25	12	21.6	21.47	1.03	-0.03	0.546	0.56
	LTE 2	QPSK10M	Left Tilted	18650	1	25	12	21.6	21.47	1.03	-0.11	0.201	0.21
	LTE 2	QPSK10M	Left Cheek	19150	2	1	24	22.6	22.56	1.01	-0.07	0.569	0.57
	LTE 4	QPSK10M	Right Cheek	20350	1	1	24	22.6	22.53	1.02	-0.15	0.295	0.30
	LTE 4	QPSK10M	Right Tilted	20350	1	1	24	22.6	22.53	1.02	-0.13	0.193	0.20
06	LTE 4	QPSK10M	Left Cheek	20350	1	1	24	22.6	22.53	1.02	0.07	0.52	0.53
	LTE 4	QPSK10M	Left Tilted	20350	1	1	24	22.6	22.53	1.02	-0.10	0.225	0.23
	LTE 4	QPSK10M	Right Cheek	20350	1	25	12	21.6	21.49	1.03	-0.16	0.249	0.26
	LTE 4	QPSK10M	Right Tilted	20350	1	25	12	21.6	21.49	1.03	0.03	0.153	0.16
	LTE 4	QPSK10M	Left Cheek	20350	1	25	12	21.6	21.49	1.03	-0.09	0.422	0.43
	LTE 4	QPSK10M	Left Tilted	20350	1	25	12	21.6	21.49	1.03	-0.06	0.18	0.18
	LTE 4	QPSK10M	Left Cheek	20350	2	1	24	22.6	22.53	1.02	0.08	0.516	0.52
07	LTE 5	QPSK10M	Right Cheek	20450	1	1	24	22.4	22.31	1.02	0.01	0.171	0.17
	LTE 5	QPSK10M	Right Tilted	20450	1	1	24	22.4	22.31	1.02	0.08	0.121	0.12
	LTE 5	QPSK10M	Left Cheek	20450	1	1	24	22.4	22.31	1.02	0.16	0.14	0.14
	LTE 5	QPSK10M	Left Tilted	20450	1	1	24	22.4	22.31	1.02	0.06	0.112	0.11
	LTE 5	QPSK10M	Right Cheek	20450	1	25	0	21.4	21.29	1.03	0.06	0.14	0.14
	LTE 5	QPSK10M	Right Tilted	20450	1	25	0	21.4	21.29	1.03	0.11	0.094	0.10
	LTE 5	QPSK10M	Left Cheek	20450	1	25	0	21.4	21.29	1.03	0.10	0.109	0.11
	LTE 5	QPSK10M	Left Tilted	20450	1	25	0	21.4	21.29	1.03	0.10	0.091	0.09
	LTE 5	QPSK10M	Right Cheek	20450	2	1	24	22.4	22.31	1.02	0.10	0.152	0.16
08	LTE 7	QPSK10M	Right Cheek	20800	1	1	24	20.6	20.52	1.02	-0.08	0.101	0.10
	LTE 7	QPSK10M	Right Tilted	20800	1	1	24	20.6	20.52	1.02	0.06	0.088	0.09
	LTE 7	QPSK10M	Left Cheek	20800	1	1	24	20.6	20.52	1.02	-0.03	0.03	0.03
	LTE 7	QPSK10M	Left Tilted	20800	1	1	24	20.6	20.52	1.02	-0.07	0.013	0.01
	LTE 7	QPSK10M	Right Cheek	20800	1	25	12	19.6	19.58	1.00	-0.04	0.051	0.05
	LTE 7	QPSK10M	Right Tilted	20800	1	25	12	19.6	19.58	1.00	-0.01	0.043	0.04
	LTE 7	QPSK10M	Left Cheek	20800	1	25	12	19.6	19.58	1.00	-0.05	0.07	0.07
	LTE 7	QPSK10M	Left Tilted	20800	1	25	12	19.6	19.58	1.00	-0.02	0.023	0.02
	LTE 7	QPSK10M	Right Cheek	20800	2	1	24	20.6	20.52	1.02	-0.07	0.094	0.10
09	LTE 17	QPSK10M	Right Cheek	23780	1	1	24	22.4	22.32	1.02	-0.01	0.156	0.16
	LTE 17	QPSK10M	Right Tilted	23780	1	1	24	22.4	22.32	1.02	-0.01	0.109	0.11
	LTE 17	QPSK10M	Left Cheek	23780	1	1	24	22.4	22.32	1.02	-0.08	0.153	0.16
	LTE 17	QPSK10M	Left Tilted	23780	1	1	24	22.4	22.32	1.02	0.06	0.111	0.11
	LTE 17	QPSK10M	Right Cheek	23780	1	25	25	21.4	21.29	1.03	0.19	0.127	0.13
	LTE 17	QPSK10M	Right Tilted	23780	1	25	25	21.4	21.29	1.03	-0.01	0.09	0.09
	LTE 17	QPSK10M	Left Cheek	23780	1	25	25	21.4	21.29	1.03	0.02	0.126	0.13
	LTE 17	QPSK10M	Left Tilted	23780	1	25	25	21.4	21.29	1.03	-0.01	0.091	0.09
	LTE 17	QPSK10M	Right Cheek	23780	2	1	24	22.4	22.32	1.02	0.15	0.103	0.10

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
10	802.11b	-	Right Cheek	1	1	14.5	14.41	1.02	-0.02	0.567	0.58
	802.11b	-	Right Tilted	1	1	14.5	14.41	1.02	-0.01	0.292	0.30
	802.11b	-	Left Cheek	1	1	14.5	14.41	1.02	0.08	0.199	0.20
	802.11b	-	Left Tilted	1	1	14.5	14.41	1.02	-0.05	0.143	0.15
	802.11b	-	Right Cheek	1	2	14.5	14.41	1.02	-0.07	0.539	0.55
11	802.11a	-	Right Cheek	48	1	15.5	15.25	1.06	0.06	0.808	0.86
	802.11a	-	Right Tilted	48	1	15.5	15.25	1.06	0.10	0.645	0.68
	802.11a	-	Left Cheek	48	1	15.5	15.25	1.06	0.01	0.438	0.46
	802.11a	-	Left Tilted	48	1	15.5	15.25	1.06	0.03	0.428	0.45
	802.11a	-	Right Cheek	36	1	15.5	15.16	1.08	-0.05	0.727	0.79
	802.11ac	VH80	Right Cheek	42	1	13.0	12.94	1.01	0.03	0.229	0.23
	802.11a	-	Right Cheek	48	2	15.5	15.25	1.06	0.04	0.6	0.64
	802.11a	-	Right Cheek	48	1	15.5	15.25	1.06	0.02	0.8	0.85
12	802.11a	-	Right Cheek	52	1	15.1	15.09	1.00	0.19	0.975	0.98
	802.11a	-	Right Tilted	52	1	15.1	15.09	1.00	0.06	0.563	0.56
	802.11a	-	Left Cheek	52	1	15.1	15.09	1.00	0.05	0.321	0.32
	802.11a	-	Left Tilted	52	1	15.1	15.09	1.00	0.07	0.324	0.32
	802.11ac	VH80	Right Cheek	58	1	13.5	13.15	1.08	0.16	0.37	0.40
	802.11a	-	Right Cheek	52	2	15.1	15.09	1.00	0.02	0.591	0.59
	802.11a	-	Right Cheek	52	1	15.1	15.09	1.00	0.10	0.966	0.97
13	802.11a	-	Right Cheek	140	1	15.5	15.32	1.04	0.03	0.621	0.65
	802.11a	-	Right Tilted	140	1	15.5	15.32	1.04	0.15	0.537	0.56
	802.11a	-	Left Cheek	140	1	15.5	15.32	1.04	0.00	0.455	0.47
	802.11a	-	Left Tilted	140	1	15.5	15.32	1.04	0.00	0.43	0.45
	802.11ac	VH80	Right Cheek	106	1	13.0	12.90	1.02	-0.01	0.23	0.24
	802.11a	-	Right Cheek	140	2	15.5	15.32	1.04	0.02	0.266	0.28
14	802.11a	-	Right Cheek	161	1	15.5	15.33	1.04	-0.10	0.608	0.63
	802.11a	-	Right Tilted	161	1	15.5	15.33	1.04	0.12	0.543	0.56
	802.11a	-	Left Cheek	161	1	15.5	15.33	1.04	0.15	0.406	0.42
	802.11a	-	Left Tilted	161	1	15.5	15.33	1.04	0.19	0.377	0.39
	802.11ac	VH80	Right Cheek	155	1	13.0	12.95	1.01	0.05	0.178	0.18
	802.11a	-	Right Cheek	161	2	15.5	15.33	1.04	0.07	0.34	0.35

Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is ≤ 1.6 W/kg and the 1g averaged SAR is ≤ 0.8 W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
3. SAR testing for 802.11n is not required when its maximum power is less than 1/4 dB higher than 802.11a.
4. According to April 2013 TCB Workshop, 802.11ac SAR testing is not required when its maximum power is less than 1/4 dB higher than 802.11a. 802.11ac SAR is required for the highest 802.11a configuration in each 5 GHz band and each exposure condition.



FCC SAR Test Report

A D T

4.7.2 SAR Results for Body-Worn (for Handset Mode, Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	GSM850	GPRS10	Front Face	251	1	32.0	31.90	1.02	-0.11	0.312	0.32
15	GSM850	GPRS10	Rear Face	251	1	32.0	31.90	1.02	-0.11	0.653	0.67
	GSM850	GPRS10	Rear Face	251	2	32.0	31.90	1.02	-0.04	0.451	0.46
	GSM1900	GPRS10	Front Face	810	1	29.5	29.25	1.06	0.03	0.62	0.66
	GSM1900	GPRS10	Rear Face	810	1	29.5	29.25	1.06	0.00	0.755	0.80
16	GSM1900	GPRS10	Rear Face	512	1	29.5	28.91	1.15	-0.10	1.03	1.18
	GSM1900	GPRS10	Rear Face	661	1	29.5	29.01	1.12	-0.04	0.864	0.97
	GSM1900	GPRS10	Rear Face	512	2	29.5	28.91	1.15	-0.12	0.693	0.79
	GSM1900	GPRS10	Rear Face	512	1	29.5	28.91	1.15	-0.06	1	1.15
	WCDMA II	RMC12.2K	Front Face	9538	1	22.5	22.32	1.04	0.02	0.633	0.66
17	WCDMA II	RMC12.2K	Rear Face	9538	1	22.5	22.32	1.04	-0.18	0.634	0.66
	WCDMA II	RMC12.2K	Rear Face	9538	2	22.5	22.32	1.04	-0.08	0.628	0.65
	WCDMA V	RMC12.2K	Front Face	4233	1	23.0	22.81	1.04	-0.12	0.194	0.20
18	WCDMA V	RMC12.2K	Rear Face	4233	1	23.0	22.81	1.04	-0.06	0.298	0.31
	WCDMA V	RMC12.2K	Rear Face	4233	2	23.0	22.81	1.04	-0.03	0.291	0.30

Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is \leq 0.8 W/kg, SAR testing for optional channel is not required.

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 2	QPSK10M	Front Face	19150	1	1	24	22.6	22.56	1.01	0.05	0.519	0.52
19	LTE 2	QPSK10M	Rear Face	19150	1	1	24	22.6	22.56	1.01	0.17	0.588	0.59
	LTE 2	QPSK10M	Front Face	18650	1	25	12	21.6	21.47	1.03	-0.04	0.569	0.59
	LTE 2	QPSK10M	Rear Face	18650	1	25	12	21.6	21.47	1.03	-0.09	0.57	0.59
	LTE 2	QPSK10M	Rear Face	19150	2	1	24	22.6	22.56	1.01	0.03	0.579	0.58
	LTE 4	QPSK10M	Front Face	20350	1	1	24	22.6	22.53	1.02	-0.04	0.469	0.48
20	LTE 4	QPSK10M	Rear Face	20350	1	1	24	22.6	22.53	1.02	-0.08	0.62	0.63
	LTE 4	QPSK10M	Front Face	20350	1	25	12	21.6	21.49	1.03	0.03	0.378	0.39
	LTE 4	QPSK10M	Rear Face	20350	1	25	12	21.6	21.49	1.03	-0.07	0.488	0.50
	LTE 4	QPSK10M	Rear Face	20350	2	1	24	22.6	22.53	1.02	-0.03	0.598	0.61
	LTE 5	QPSK10M	Front Face	20450	1	1	24	22.4	22.31	1.02	-0.17	0.147	0.15
21	LTE 5	QPSK10M	Rear Face	20450	1	1	24	22.4	22.31	1.02	0.00	0.244	0.25
	LTE 5	QPSK10M	Front Face	20450	1	25	0	21.4	21.29	1.03	-0.05	0.115	0.12
	LTE 5	QPSK10M	Rear Face	20450	1	25	0	21.4	21.29	1.03	0.00	0.195	0.20
	LTE 5	QPSK10M	Rear Face	20450	2	1	24	22.4	22.31	1.02	-0.06	0.211	0.22
	LTE 7	QPSK10M	Front Face	20800	1	1	24	20.6	20.52	1.02	-0.09	0.123	0.13
22	LTE 7	QPSK10M	Rear Face	20800	1	1	24	20.6	20.52	1.02	0.07	0.244	0.25
	LTE 7	QPSK10M	Front Face	20800	1	25	12	19.6	19.58	1.00	-0.01	0.113	0.11
	LTE 7	QPSK10M	Rear Face	20800	1	25	12	19.6	19.58	1.00	0.08	0.225	0.23
	LTE 7	QPSK10M	Rear Face	20800	2	1	24	20.6	20.52	1.02	-0.03	0.24	0.24
	LTE 17	QPSK10M	Front Face	23780	1	1	24	22.4	22.32	1.02	-0.04	0.153	0.16
23	LTE 17	QPSK10M	Rear Face	23780	1	1	24	22.4	22.32	1.02	-0.04	0.343	0.35
	LTE 17	QPSK10M	Front Face	23780	1	25	25	21.4	21.29	1.03	-0.08	0.151	0.15
	LTE 17	QPSK10M	Rear Face	23780	1	25	25	21.4	21.29	1.03	-0.05	0.279	0.29
	LTE 17	QPSK10M	Rear Face	23780	2	1	24	22.4	22.32	1.02	-0.17	0.262	0.27

Note:

- According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
- According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.

FCC SAR Test Report

3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
24	802.11b	-	Front Face	1	1	14.5	14.41	1.02	0.09	0.069	0.07
	802.11b	-	Rear Face	1	1	14.5	14.41	1.02	0.10	0.041	0.04
	802.11b	-	Front Face	1	2	14.5	14.41	1.02	0.08	0.063	0.06
	802.11a	-	Front Face	48	1	15.5	15.25	1.06	-0.12	0.153	0.16
25	802.11a	-	Rear Face	48	1	15.5	15.25	1.06	-0.05	0.474	0.50
	802.11ac	VH80	Rear Face	42	1	13.0	12.94	1.01	-0.03	0.153	0.16
	802.11a	-	Rear Face	48	2	15.5	15.25	1.06	0.02	0.46	0.49
	802.11a	-	Front Face	52	1	15.1	15.09	1.00	-0.02	0.161	0.16
26	802.11a	-	Rear Face	52	1	15.1	15.09	1.00	0.12	0.5	0.50
	802.11ac	VH80	Rear Face	58	1	13.5	13.15	1.08	-0.03	0.189	0.20
	802.11a	-	Rear Face	52	2	15.1	15.09	1.00	-0.10	0.494	0.50
	802.11a	-	Front Face	140	1	15.5	15.32	1.04	-0.13	0.087	0.09
27	802.11a	-	Rear Face	140	1	15.5	15.32	1.04	-0.03	0.354	0.37
	802.11ac	VH80	Rear Face	106	1	13.0	12.90	1.02	-0.07	0.135	0.14
	802.11a	-	Rear Face	140	2	15.5	15.32	1.04	0.00	0.275	0.29
	802.11a	-	Front Face	161	1	15.5	15.33	1.04	0.00	0.118	0.12
28	802.11a	-	Rear Face	161	1	15.5	15.33	1.04	0.09	0.364	0.38
	802.11ac	VH80	Rear Face	155	1	13.0	12.95	1.01	0.10	0.118	0.12
	802.11a	-	Rear Face	161	2	15.5	15.33	1.04	0.00	0.231	0.24

Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is ≤ 1.6 W/kg and the 1g averaged SAR is ≤ 0.8 W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
3. SAR testing for 802.11n is not required when its maximum power is less than 1/4 dB higher than 802.11a.
4. According to April 2013 TCB Workshop, 802.11ac SAR testing is not required when its maximum power is less than 1/4 dB higher than 802.11a. 802.11ac SAR is required for the highest 802.11a configuration in each 5 GHz band and each exposure condition.

4.7.3 SAR Results for Hotspot (for Handset Mode, Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
15	GSM850	GPRS10	Front Face	251	1	32.0	31.90	1.02	-0.11	0.312	0.32
	GSM850	GPRS10	Rear Face	251	1	32.0	31.90	1.02	-0.11	0.653	0.67
	GSM850	GPRS10	Left Side	251	1	32.0	31.90	1.02	-0.14	0.235	0.24
	GSM850	GPRS10	Right Side	251	1	32.0	31.90	1.02	-0.07	0.395	0.40
	GSM850	GPRS10	Bottom Side	251	1	32.0	31.90	1.02	-0.04	0.109	0.11
	GSM850	GPRS10	Rear Face	251	2	32.0	31.90	1.02	-0.04	0.451	0.46
	GSM1900	GPRS10	Front Face	810	1	29.5	29.25	1.06	0.03	0.62	0.66
	GSM1900	GPRS10	Rear Face	810	1	29.5	29.25	1.06	0.00	0.755	0.80
	GSM1900	GPRS10	Left Side	810	1	29.5	29.25	1.06	-0.03	0.482	0.51
	GSM1900	GPRS10	Right Side	810	1	29.5	29.25	1.06	-0.01	0.061	0.06
	GSM1900	GPRS10	Bottom Side	810	1	29.5	29.25	1.06	-0.06	0.379	0.40
	GSM1900	GPRS10	Rear Face	810	2	29.5	29.25	1.06	-0.06	0.379	0.40
16	GSM1900	GPRS10	Rear Face	512	1	29.5	28.91	1.15	-0.10	1.03	1.18
	GSM1900	GPRS10	Rear Face	661	1	29.5	29.01	1.12	-0.04	0.864	0.97
	GSM1900	GPRS10	Rear Face	512	2	29.5	28.91	1.15	-0.12	0.693	0.79
	GSM1900	GPRS10	Rear Face	512	1	29.5	28.91	1.15	-0.10	1	1.15
17	WCDMA II	RMC12.2K	Front Face	9538	1	22.5	22.32	1.04	0.02	0.633	0.66
	WCDMA II	RMC12.2K	Rear Face	9538	1	22.5	22.32	1.04	-0.18	0.634	0.66
	WCDMA II	RMC12.2K	Left Side	9538	1	22.5	22.32	1.04	0.11	0.492	0.51
	WCDMA II	RMC12.2K	Right Side	9538	1	22.5	22.32	1.04	-0.01	0.1	0.10
	WCDMA II	RMC12.2K	Bottom Side	9538	1	22.5	22.32	1.04	0.00	0.403	0.42
	WCDMA II	RMC12.2K	Rear Face	9538	2	22.5	22.32	1.04	-0.08	0.628	0.65
18	WCDMA V	RMC12.2K	Front Face	4233	1	23.0	22.81	1.04	-0.12	0.194	0.20
	WCDMA V	RMC12.2K	Rear Face	4233	1	23.0	22.81	1.04	-0.06	0.298	0.31
	WCDMA V	RMC12.2K	Left Side	4233	1	23.0	22.81	1.04	0.04	0.159	0.17
	WCDMA V	RMC12.2K	Right Side	4233	1	23.0	22.81	1.04	-0.04	0.276	0.29
	WCDMA V	RMC12.2K	Bottom Side	4233	1	23.0	22.81	1.04	0.07	0.057	0.06
	WCDMA V	RMC12.2K	Rear Face	4233	2	23.0	22.81	1.04	-0.03	0.291	0.30

Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is \leq 0.8 W/kg, SAR testing for optional channel is not required.



FCC SAR Test Report

A D T

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
19	LTE 2	QPSK10M	Front Face	19150	1	1	24	22.6	22.56	1.01	0.05	0.519	0.52
	LTE 2	QPSK10M	Rear Face	19150	1	1	24	22.6	22.56	1.01	0.17	0.588	0.59
	LTE 2	QPSK10M	Left Side	19150	1	1	24	22.6	22.56	1.01	-0.07	0.467	0.47
	LTE 2	QPSK10M	Right Side	19150	1	1	24	22.6	22.56	1.01	-0.08	0.102	0.10
	LTE 2	QPSK10M	Bottom Side	19150	1	1	24	22.6	22.56	1.01	-0.02	0.367	0.37
	LTE 2	QPSK10M	Front Face	18650	1	25	12	21.6	21.47	1.03	-0.04	0.569	0.59
	LTE 2	QPSK10M	Rear Face	18650	1	25	12	21.6	21.47	1.03	-0.09	0.57	0.59
	LTE 2	QPSK10M	Left Side	18650	1	25	12	21.6	21.47	1.03	-0.07	0.454	0.47
	LTE 2	QPSK10M	Right Side	18650	1	25	12	21.6	21.47	1.03	-0.03	0.161	0.17
	LTE 2	QPSK10M	Bottom Side	18650	1	25	12	21.6	21.47	1.03	0.00	0.33	0.34
	LTE 2	QPSK10M	Rear Face	19150	2	1	24	22.6	22.56	1.01	0.03	0.579	0.58
20	LTE 4	QPSK10M	Front Face	20350	1	1	24	22.6	22.53	1.02	-0.04	0.469	0.48
	LTE 4	QPSK10M	Rear Face	20350	1	1	24	22.6	22.53	1.02	-0.08	0.62	0.63
	LTE 4	QPSK10M	Left Side	20350	1	1	24	22.6	22.53	1.02	-0.08	0.325	0.33
	LTE 4	QPSK10M	Right Side	20350	1	1	24	22.6	22.53	1.02	-0.12	0.101	0.10
	LTE 4	QPSK10M	Bottom Side	20350	1	1	24	22.6	22.53	1.02	-0.07	0.278	0.28
	LTE 4	QPSK10M	Front Face	20350	1	25	12	21.6	21.49	1.03	0.03	0.378	0.39
	LTE 4	QPSK10M	Rear Face	20350	1	25	12	21.6	21.49	1.03	-0.07	0.488	0.50
	LTE 4	QPSK10M	Left Side	20350	1	25	12	21.6	21.49	1.03	-0.03	0.264	0.27
	LTE 4	QPSK10M	Right Side	20350	1	25	12	21.6	21.49	1.03	0.10	0.083	0.09
	LTE 4	QPSK10M	Bottom Side	20350	1	25	12	21.6	21.49	1.03	-0.05	0.221	0.23
	LTE 4	QPSK10M	Rear Face	20350	2	1	24	22.6	22.53	1.02	-0.03	0.598	0.61
21	LTE 5	QPSK10M	Front Face	20450	1	1	24	22.4	22.31	1.02	-0.17	0.147	0.15
	LTE 5	QPSK10M	Rear Face	20450	1	1	24	22.4	22.31	1.02	0.00	0.244	0.25
	LTE 5	QPSK10M	Left Side	20450	1	1	24	22.4	22.31	1.02	-0.07	0.132	0.13
	LTE 5	QPSK10M	Right Side	20450	1	1	24	22.4	22.31	1.02	-0.05	0.226	0.23
	LTE 5	QPSK10M	Bottom Side	20450	1	1	24	22.4	22.31	1.02	-0.04	0.04	0.04
	LTE 5	QPSK10M	Front Face	20450	1	25	0	21.4	21.29	1.03	-0.05	0.115	0.12
	LTE 5	QPSK10M	Rear Face	20450	1	25	0	21.4	21.29	1.03	0.00	0.195	0.20
	LTE 5	QPSK10M	Left Side	20450	1	25	0	21.4	21.29	1.03	-0.06	0.113	0.12
	LTE 5	QPSK10M	Right Side	20450	1	25	0	21.4	21.29	1.03	-0.06	0.183	0.19
	LTE 5	QPSK10M	Bottom Side	20450	1	25	0	21.4	21.29	1.03	-0.07	0.033	0.03
	LTE 5	QPSK10M	Rear Face	20450	2	1	24	22.4	22.31	1.02	-0.06	0.211	0.22

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.



FCC SAR Test Report

A D T

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
22	LTE 7	QPSK10M	Front Face	20800	1	1	24	20.6	20.52	1.02	-0.09	0.123	0.13
	LTE 7	QPSK10M	Rear Face	20800	1	1	24	20.6	20.52	1.02	0.07	0.244	0.25
	LTE 7	QPSK10M	Left Side	20800	1	1	24	20.6	20.52	1.02	0.18	0.222	0.23
	LTE 7	QPSK10M	Right Side	20800	1	1	24	20.6	20.52	1.02	0.03	0.012	0.01
	LTE 7	QPSK10M	Bottom Side	20800	1	1	24	20.6	20.52	1.02	0.05	0.1	0.10
	LTE 7	QPSK10M	Front Face	20800	1	25	12	19.6	19.58	1.00	-0.01	0.113	0.11
	LTE 7	QPSK10M	Rear Face	20800	1	25	12	19.6	19.58	1.00	0.08	0.225	0.23
	LTE 7	QPSK10M	Left Side	20800	1	25	12	19.6	19.58	1.00	0.03	0.177	0.18
	LTE 7	QPSK10M	Right Side	20800	1	25	12	19.6	19.58	1.00	-0.07	0.00898	0.01
	LTE 7	QPSK10M	Bottom Side	20800	1	25	12	19.6	19.58	1.00	0.08	0.089	0.09
	LTE 7	QPSK10M	Rear Face	20800	2	1	24	20.6	20.52	1.02	-0.03	0.24	0.24
23	LTE 17	QPSK10M	Front Face	23780	1	1	24	22.4	22.32	1.02	-0.04	0.153	0.16
	LTE 17	QPSK10M	Rear Face	23780	1	1	24	22.4	22.32	1.02	-0.04	0.343	0.35
	LTE 17	QPSK10M	Left Side	23780	1	1	24	22.4	22.32	1.02	-0.04	0.221	0.23
	LTE 17	QPSK10M	Right Side	23780	1	1	24	22.4	22.32	1.02	-0.03	0.206	0.21
	LTE 17	QPSK10M	Bottom Side	23780	1	1	24	22.4	22.32	1.02	-0.10	0.021	0.02
	LTE 17	QPSK10M	Front Face	23780	1	25	25	21.4	21.29	1.03	-0.08	0.151	0.15
	LTE 17	QPSK10M	Rear Face	23780	1	25	25	21.4	21.29	1.03	-0.05	0.279	0.29
	LTE 17	QPSK10M	Left Side	23780	1	25	25	21.4	21.29	1.03	-0.05	0.18	0.18
	LTE 17	QPSK10M	Right Side	23780	1	25	25	21.4	21.29	1.03	-0.01	0.169	0.17
	LTE 17	QPSK10M	Bottom Side	23780	1	25	25	21.4	21.29	1.03	-0.19	0.021	0.02
	LTE 17	QPSK10M	Rear Face	23780	2	1	24	22.4	22.32	1.02	-0.17	0.262	0.27

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

Plot No.	Band	Test Position	Ch.	EUT Config.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
24	802.11b	Front Face	1	1	14.5	14.41	1.02	0.13	0.069	0.07
	802.11b	Rear Face	1	1	14.5	14.41	1.02	0.10	0.041	0.04
	802.11b	Left Side	1	1	14.5	14.41	1.02	0.07	0.00764	0.01
	802.11b	Top Side	1	1	14.5	14.41	1.02	0.13	0.045	0.05
	802.11b	Front Face	1	2	14.5	14.41	1.02	0.08	0.063	0.06

Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is <= 1.6 W/kg and the 1g averaged SAR is <= 0.8 W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
3. WLAN 5G does not support wireless hotspot mode.

FCC SAR Test Report

4.7.4 SAR Results for Body (for Tablet PC Mode)

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	EUT Config.	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	GSM850	GPRS10	Rear Face	0	251	1	w/	29.5	29.22	1.07	0.04	0.438	0.47
	GSM850	GPRS10	Rear Face	1.1	251	1	w/o	32.0	31.90	1.02	0.03	0.318	0.33
	GSM850	GPRS10	Top Side	0	251	1	w/	29.5	29.22	1.07	-0.03	0.583	0.62
29	GSM850	GPRS10	Top Side	0.8	251	1	w/o	32.0	31.90	1.02	-0.12	0.733	0.75
	GSM850	GPRS10	Right Side	0	251	1	w/o	32.0	31.90	1.02	-0.01	0.166	0.17
	GSM850	GPRS10	Top Side	0.8	128	1	w/o	32.0	31.78	1.05	-0.07	0.577	0.61
	GSM850	GPRS10	Top Side	0.8	189	1	w/o	32.0	31.85	1.04	0.09	0.683	0.71
	GSM850	GPRS10	Top Side	0.8	251	2	w/o	32.0	31.90	1.02	-0.06	0.545	0.56
	GSM1900	GPRS10	Rear Face	0	661	1	w/	26.5	26.31	1.04	0.03	0.319	0.33
	GSM1900	GPRS10	Rear Face	1.1	810	1	w/o	29.5	29.25	1.06	0.07	0.168	0.18
	GSM1900	GPRS10	Top Side	0	661	1	w/	26.5	26.31	1.04	0.08	0.55	0.57
30	GSM1900	GPRS10	Top Side	0.8	810	1	w/o	29.5	29.25	1.06	-0.03	0.559	0.59
	GSM1900	GPRS10	Right Side	0	810	1	w/o	29.5	29.25	1.06	-0.08	0.443	0.47
	GSM1900	GPRS10	Top Side	0.8	810	2	w/o	29.5	29.25	1.06	-0.04	0.552	0.58
	WCDMA II	RMC12.2K	Rear Face	0	9400	1	w/	20.0	19.98	1.00	-0.08	0.364	0.37
	WCDMA II	RMC12.2K	Rear Face	1.1	9538	1	w/o	22.5	22.32	1.04	-0.18	0.135	0.14
31	WCDMA II	RMC12.2K	Top Side	0	9400	1	w/	20.0	19.98	1.00	0.18	0.568	0.57
	WCDMA II	RMC12.2K	Top Side	0.8	9538	1	w/o	22.5	22.32	1.04	0.04	0.345	0.36
	WCDMA II	RMC12.2K	Right Side	0	9538	1	w/o	22.5	22.32	1.04	-0.03	0.33	0.34
	WCDMA II	RMC12.2K	Top Side	0	9400	2	w/	20.0	19.98	1.00	0.10	0.561	0.56
	WCDMA V	RMC12.2K	Rear Face	0	4132	1	w/	20.5	20.35	1.04	0.17	0.247	0.26
	WCDMA V	RMC12.2K	Rear Face	1.1	4233	1	w/o	23.0	22.81	1.04	-0.07	0.165	0.17
32	WCDMA V	RMC12.2K	Top Side	0	4132	1	w/	20.5	20.35	1.04	0.06	0.453	0.47
	WCDMA V	RMC12.2K	Top Side	0.8	4233	1	w/o	23.0	22.81	1.04	-0.11	0.321	0.34
	WCDMA V	RMC12.2K	Right Side	0	4233	1	w/o	23.0	22.81	1.04	-0.07	0.083	0.09
	WCDMA V	RMC12.2K	Top Side	0	4132	2	w/	20.5	20.35	1.04	-0.05	0.368	0.38

Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is <= 0.8 W/kg, SAR testing for optional channel is not required.

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	EUT Config.	Power Reduction	RB Offset	RB#	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 2	QPSK10M	Rear Face	0	18650	1	w/	1	24	20.8	20.71	1.02	-0.02	0.35	0.36
	LTE 2	QPSK10M	Rear Face	1.1	19150	1	w/o	1	24	22.6	22.56	1.01	-0.15	0.128	0.13
	LTE 2	QPSK10M	Top Side	0	18650	1	w/	1	24	20.8	20.71	1.02	-0.01	0.601	0.61
	LTE 2	QPSK10M	Top Side	0.8	19150	1	w/o	1	24	22.6	22.56	1.01	0.19	0.316	0.32
	LTE 2	QPSK10M	Right Side	0	19150	1	w/o	1	24	22.6	22.56	1.01	-0.01	0.242	0.24
	LTE 2	QPSK10M	Rear Face	0	18650	1	w/	25	0	19.8	19.72	1.02	0.02	0.341	0.35
	LTE 2	QPSK10M	Rear Face	1.1	18650	1	w/o	25	12	21.6	21.47	1.03	-0.18	0.139	0.14
	LTE 2	QPSK10M	Top Side	0	18650	1	w/	25	0	19.8	19.72	1.02	0.15	0.493	0.50
	LTE 2	QPSK10M	Top Side	0.8	18650	1	w/o	25	12	21.6	21.47	1.03	0.03	0.296	0.30
	LTE 2	QPSK10M	Right Side	0	18650	1	w/o	25	12	21.6	21.47	1.03	-0.10	0.353	0.36
33	LTE 2	QPSK10M	Top Side	0	18650	2	w/	1	24	20.8	20.71	1.02	-0.06	0.751	0.77

Note:

- According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
- According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.



FCC SAR Test Report

3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	EUT Config.	Power Reduction	RB Offset	RB#	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 4	QPSK10M	Rear Face	0	20350	1	w/	1	49	19.6	19.59	1.00	0.02	0.528	0.53
	LTE 4	QPSK10M	Rear Face	1.1	20350	1	w/o	1	24	22.6	22.53	1.02	0.01	0.194	0.20
34	LTE 4	QPSK10M	Top Side	0	20350	1	w/	1	49	19.6	19.59	1.00	0.08	0.66	0.66
	LTE 4	QPSK10M	Top Side	0.8	20350	1	w/o	1	24	22.6	22.53	1.02	-0.09	0.332	0.34
	LTE 4	QPSK10M	Right Side	0	20350	1	w/o	1	24	22.6	22.53	1.02	-0.02	0.4	0.41
	LTE 4	QPSK10M	Rear Face	0	20350	1	w/	25	25	18.6	18.56	1.01	-0.01	0.43	0.43
	LTE 4	QPSK10M	Rear Face	1.1	20350	1	w/o	25	12	21.6	21.49	1.03	0.00	0.172	0.18
	LTE 4	QPSK10M	Top Side	0	20350	1	w/	25	25	18.6	18.56	1.01	-0.07	0.537	0.54
	LTE 4	QPSK10M	Top Side	0.8	20350	1	w/o	25	12	21.6	21.49	1.03	-0.01	0.273	0.28
	LTE 4	QPSK10M	Right Side	0	20350	1	w/o	25	12	21.6	21.49	1.03	0.16	0.338	0.35
	LTE 4	QPSK10M	Top Side	0	20350	2	w/	1	49	19.6	19.59	1.00	-0.03	0.653	0.65
	LTE 5	QPSK10M	Rear Face	0	20450	1	w/	1	0	20.7	20.64	1.01	0.10	0.255	0.26
	LTE 5	QPSK10M	Rear Face	1.1	20450	1	w/o	1	24	22.4	22.31	1.02	-0.03	0.121	0.12
35	LTE 5	QPSK10M	Top Side	0	20450	1	w/	1	0	20.7	20.64	1.01	0.02	0.514	0.52
	LTE 5	QPSK10M	Top Side	0.8	20450	1	w/o	1	24	22.4	22.31	1.02	-0.10	0.206	0.21
	LTE 5	QPSK10M	Right Side	0	20450	1	w/o	1	24	22.4	22.31	1.02	0.01	0.067	0.07
	LTE 5	QPSK10M	Rear Face	0	20450	1	w/	25	0	19.7	19.62	1.02	0.13	0.207	0.21
	LTE 5	QPSK10M	Rear Face	1.1	20450	1	w/o	25	0	21.4	21.29	1.03	0.01	0.12	0.12
	LTE 5	QPSK10M	Top Side	0	20450	1	w/	25	0	19.7	19.62	1.02	0.00	0.354	0.36
	LTE 5	QPSK10M	Top Side	0.8	20450	1	w/o	25	0	21.4	21.29	1.03	0.04	0.185	0.19
	LTE 5	QPSK10M	Right Side	0	20450	1	w/o	25	0	21.4	21.29	1.03	0.14	0.061	0.06
	LTE 5	QPSK10M	Top Side	0	20450	2	w/	1	0	20.7	20.64	1.01	-0.02	0.339	0.34
	LTE 7	QPSK10M	Rear Face	0	20800	1	w/	1	0	11.8	11.72	1.02	0.01	0.048	0.05
	LTE 7	QPSK10M	Rear Face	1.1	20800	1	w/o	1	24	20.6	20.52	1.02	-0.01	0.115	0.12
	LTE 7	QPSK10M	Top Side	0	20800	1	w/	1	0	11.8	11.72	1.02	-0.10	0.428	0.44
36	LTE 7	QPSK10M	Top Side	0.8	20800	1	w/o	1	24	20.6	20.52	1.02	0.00	0.829	0.84
	LTE 7	QPSK10M	Right Side	0	20800	1	w/o	1	24	20.6	20.52	1.02	-0.10	0.127	0.13
	LTE 7	QPSK10M	Top Side	0.8	21100	1	w/o	1	24	20.6	20.21	1.09	0.15	0.434	0.47
	LTE 7	QPSK10M	Top Side	0.8	21400	1	w/o	1	24	20.6	20.34	1.06	-0.32	0.45	0.48
	LTE 7	QPSK10M	Rear Face	0	21100	1	w/	25	12	10.8	10.50	1.07	-0.04	0.045	0.05
	LTE 7	QPSK10M	Rear Face	1.1	20800	1	w/o	25	12	19.6	19.58	1.00	-0.05	0.115	0.12
	LTE 7	QPSK10M	Top Side	0	21100	1	w/	25	12	10.8	10.50	1.07	0.05	0.446	0.48
	LTE 7	QPSK10M	Top Side	0.8	20800	1	w/o	25	12	19.6	19.58	1.00	-0.01	0.645	0.65
	LTE 7	QPSK10M	Right Side	0	20800	1	w/o	25	12	19.6	19.58	1.00	-0.16	0.11	0.11
	LTE 7	QPSK10M	Top Side	0.8	20800	1	w/o	50	0	19.6	19.56	1.01	0.06	0.625	0.63
	LTE 7	QPSK10M	Top Side	0.8	20800	1	w/o	1	24	20.6	20.52	1.02	0.08	0.815	0.83
	LTE 7	QPSK10M	Top Side	0.8	20800	2	w/o	1	24	20.6	20.52	1.02	0.17	0.544	0.55
	LTE 17	QPSK10M	Rear Face	0	23790	1	w/	1	24	21.6	21.54	1.01	-0.13	0.25	0.25
	LTE 17	QPSK10M	Rear Face	1.1	23780	1	w/o	1	24	22.4	22.32	1.02	0.07	0.244	0.25
37	LTE 17	QPSK10M	Top Side	0	23790	1	w/	1	24	21.6	21.54	1.01	0.12	0.282	0.29
	LTE 17	QPSK10M	Top Side	0.8	23780	1	w/o	1	24	22.4	22.32	1.02	-0.09	0.256	0.26
	LTE 17	QPSK10M	Right Side	0	23780	1	w/o	1	24	22.4	22.32	1.02	-0.04	0.234	0.24
	LTE 17	QPSK10M	Rear Face	0	23790	1	w/	25	25	20.6	20.52	1.02	0.02	0.174	0.18
	LTE 17	QPSK10M	Rear Face	1.1	23780	1	w/o	25	25	21.4	21.29	1.03	0.04	0.184	0.19
	LTE 17	QPSK10M	Top Side	0	23790	1	w/	25	25	20.6	20.52	1.02	0.01	0.198	0.20
	LTE 17	QPSK10M	Top Side	0.8	23780	1	w/o	25	25	21.4	21.29	1.03	0.10	0.195	0.20
	LTE 17	QPSK10M	Right Side	0	23780	1	w/o	25	25	21.4	21.29	1.03	0.14	0.126	0.13
	LTE 17	QPSK10M	Top Side	0	23790	2	w/	1	24	21.6	21.54	1.01	0.11	0.156	0.16

FCC SAR Test Report

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	EUT Config.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
38	802.11b	-	Rear Face	0	1	1	14.5	14.41	1.02	-0.07	0.488	0.50
	802.11b	-	Top Side	0	1	1	14.5	14.41	1.02	0.04	0.155	0.16
	802.11b	-	Rear Face	0	1	2	14.5	14.41	1.02	0.10	0.378	0.39
39	802.11a	-	Rear Face	0	48	1	10.4	10.34	1.01	-0.03	0.778	0.79
	802.11a	-	Top Side	0	48	1	10.4	10.34	1.01	0.00	0.637	0.65
	802.11ac	VH80	Rear Face	0	42	1	9.5	9.33	1.04	0.00	0.53	0.55
	802.11a	-	Rear Face	0	48	2	10.4	10.34	1.01	0.03	0.74	0.75
40	802.11a	-	Rear Face	0	52	1	10.0	9.56	1.11	0.00	0.952	1.05
	802.11a	-	Top Side	0	52	1	10.0	9.56	1.11	-0.05	0.091	0.10
	802.11ac	VH80	Rear Face	0	58	1	10.0	9.97	1.01	0.00	0.948	0.95
	802.11a	-	Rear Face	0	52	1	10.0	9.56	1.11	0.00	0.938	1.04
	802.11a	-	Rear Face	0	52	2	10.0	9.56	1.11	0.10	0.645	0.71
	802.11a	-	Rear Face	0	140	1	12.0	11.97	1.01	0.00	0.879	0.89
41	802.11a	-	Top Side	0	140	1	12.0	11.97	1.01	-0.09	0.124	0.12
	802.11a	-	Rear Face	0	100	1	12.0	11.43	1.14	0.03	0.799	0.91
	802.11a	-	Rear Face	0	116	1	12.0	11.59	1.10	0.06	0.929	1.02
	802.11ac	VH80	Rear Face	0	106	1	12.0	11.77	1.05	0.03	0.774	0.82
	802.11a	-	Rear Face	0	116	1	12.0	11.59	1.10	-0.02	0.92	1.01
	802.11a	-	Rear Face	0	116	2	12.0	11.59	1.10	0.07	0.886	0.97
	802.11a	-	Rear Face	0	100	2	12.0	11.43	1.14	0.09	0.784	0.89
	802.11a	-	Rear Face	0	140	2	12.0	11.97	1.01	0.08	0.719	0.72
	802.11a	-	Rear Face	0	161	1	12.1	12.08	1.00	0.01	0.92	0.92
	802.11a	-	Top Side	0	161	1	12.1	12.08	1.00	0.10	0.112	0.11
42	802.11a	-	Rear Face	0	153	1	12.1	11.79	1.07	0.00	0.866	0.93
	802.11ac	VH80	Rear Face	0	155	1	12.1	12.03	1.02	0.00	0.537	0.55
	802.11a	-	Rear Face	0	161	1	12.1	12.08	1.00	0.00	0.911	0.91
	802.11a	-	Rear Face	0	153	2	12.1	11.79	1.07	0.05	0.796	0.85
43	BT	-	Rear Face	0	0	1	10.5	10.33	1.04	-0.07	0.057	0.06
	BT	-	Top Side	0	0	1	10.5	10.33	1.04	-0.05	0.016	0.02
	BT	-	Rear Face	0	0	2	10.5	10.33	1.04	N/A	N/A	N/A

Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is ≤ 1.6 W/kg and the 1g averaged SAR is ≤ 0.8 W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
3. SAR testing for 802.11n is not required when its maximum power is less than 1/4 dB higher than 802.11a.
4. According to April 2013 TCB Workshop, 802.11ac SAR testing is not required when its maximum power is less than 1/4 dB higher than 802.11a. 802.11ac SAR is required for the highest 802.11a configuration in each 5 GHz band and each exposure condition.
5. The "N/A" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

4.7.5 SAR Measurement Variability

According to KDB 865664 D01 v01r01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
802.11a	-	Right Cheek	48	0.808	0.8	1.01	N/A	N/A	N/A	N/A
802.11a	-	Right Cheek	52	0.975	0.966	1.01	N/A	N/A	N/A	N/A
GSM1900	GPRS10	Rear Face	512	1.03	1	1.03	N/A	N/A	N/A	N/A
LTE 7	QPSK10M	Top Side	20800	0.829	0.815	1.02	N/A	N/A	N/A	N/A
802.11a	-	Rear Face	52	0.952	0.938	1.01	N/A	N/A	N/A	N/A
802.11a	-	Rear Face	116	0.929	0.92	1.01	N/A	N/A	N/A	N/A
802.11a	-	Rear Face	161	0.92	0.911	1.01	N/A	N/A	N/A	N/A

FCC SAR Test Report

4.7.6 Simultaneous Multi-band Transmission Evaluation

<Estimated SAR Calculation>

According to KDB 447498 D01, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR was estimated according to following formula to result in substantially conservative SAR values of ≤ 0.4 W/kg to determine simultaneous transmission SAR test exclusion.

$$\text{Estimated SAR} = \frac{\text{Max. Tune up Power}_{(\text{mW})}}{\text{Min. Test Separation Distance}_{(\text{mm})}} \times \frac{\sqrt{f_{(\text{GHz})}}}{7.5}$$

If the minimum test separation distance is < 5 mm, a distance of 5 mm is used for estimated SAR calculation. When the test separation distance is > 50 mm, the 0.4 W/kg is used for SAR-1g.

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (cm)	Estimated SAR (W/kg)
BT (DSS)	2.48	10.5	Handset, Body	1.0	0.24

Note:

1. The separation distance is determined from the outer housing of the EUT to the user.
2. When standalone SAR testing is not required, an estimated SAR can be applied to determine simultaneous transmission SAR test exclusion.

FCC SAR Test Report

<SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

<EUT Configuration: Handset>

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
1	GSM850 + WLAN (DTS)	Head	Right Cheek	0.29	0.63	0.92	Σ SAR < 1.6, Not required
			Right Tilted	0.18	0.56	0.74	Σ SAR < 1.6, Not required
			Left Cheek	0.25	0.42	0.67	Σ SAR < 1.6, Not required
			Left Tilted	0.19	0.39	0.58	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.32	0.12	0.44	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.38	1.05	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.32	0.07	0.39	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.04	0.71	Σ SAR < 1.6, Not required
			Left Side	0.24	0.01	0.25	Σ SAR < 1.6, Not required
			Right Side	0.40	-	0.40	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
			Bottom Side	0.11	-	0.11	Σ SAR < 1.6, Not required
2	GSM850 + WLAN (NII)	Head	Right Cheek	0.29	0.98	1.27	Σ SAR < 1.6, Not required
			Right Tilted	0.18	0.68	0.86	Σ SAR < 1.6, Not required
			Left Cheek	0.25	0.47	0.72	Σ SAR < 1.6, Not required
			Left Tilted	0.19	0.45	0.64	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.32	0.16	0.48	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.50	1.17	Σ SAR < 1.6, Not required
3	GSM850 + BT (DSS)	Body-Worn	Front Face	0.32	0.24	0.56	Σ SAR < 1.6, Not required
			Rear Face	0.67	0.24	0.91	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
4	GSM1900 + WLAN (DTS)	Head	Right Cheek	0.26	0.63	0.89	Σ SAR < 1.6, Not required
			Right Tilted	0.18	0.56	0.74	Σ SAR < 1.6, Not required
			Left Cheek	0.61	0.42	1.03	Σ SAR < 1.6, Not required
			Left Tilted	0.11	0.39	0.50	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.66	0.12	0.78	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.38	1.56	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.66	0.07	0.73	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.04	1.22	Σ SAR < 1.6, Not required
			Left Side	0.51	0.01	0.52	Σ SAR < 1.6, Not required
			Right Side	0.06	-	0.06	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
		Bottom Side	0.40	-	0.40	Σ SAR < 1.6, Not required	
5	GSM1900 + WLAN (NII)	Head	Right Cheek	0.26	0.98	1.24	Σ SAR < 1.6, Not required
			Right Tilted	0.18	0.68	0.86	Σ SAR < 1.6, Not required
			Left Cheek	0.61	0.47	1.08	Σ SAR < 1.6, Not required
			Left Tilted	0.11	0.45	0.56	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.66	0.16	0.82	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.50	1.68	Analyzed as below
6	GSM1900 + BT (DSS)	Body-Worn	Front Face	0.66	0.24	0.90	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.24	1.42	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
7	WCDMA II + WLAN (DTS)	Head	Right Cheek	0.31	0.63	0.94	Σ SAR < 1.6, Not required
			Right Tilted	0.19	0.56	0.75	Σ SAR < 1.6, Not required
			Left Cheek	0.54	0.42	0.96	Σ SAR < 1.6, Not required
			Left Tilted	0.13	0.39	0.52	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.66	0.12	0.78	Σ SAR < 1.6, Not required
			Rear Face	0.66	0.38	1.04	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.66	0.07	0.73	Σ SAR < 1.6, Not required
			Rear Face	0.66	0.04	0.70	Σ SAR < 1.6, Not required
			Left Side	0.51	0.01	0.52	Σ SAR < 1.6, Not required
			Right Side	0.10	-	0.10	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
			Bottom Side	0.42	-	0.42	Σ SAR < 1.6, Not required
8	WCDMA II + WLAN (NII)	Head	Right Cheek	0.31	0.98	1.29	Σ SAR < 1.6, Not required
			Right Tilted	0.19	0.68	0.87	Σ SAR < 1.6, Not required
			Left Cheek	0.54	0.47	1.01	Σ SAR < 1.6, Not required
			Left Tilted	0.13	0.45	0.58	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.66	0.16	0.82	Σ SAR < 1.6, Not required
			Rear Face	0.66	0.50	1.16	Σ SAR < 1.6, Not required
9	WCDMA II + BT (DSS)	Body-Worn	Front Face	0.66	0.24	0.90	Σ SAR < 1.6, Not required
			Rear Face	0.66	0.24	0.90	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
10	WCDMA V + WLAN (DTS)	Head	Right Cheek	0.18	0.63	0.81	Σ SAR < 1.6, Not required
			Right Tilted	0.10	0.56	0.66	Σ SAR < 1.6, Not required
			Left Cheek	0.15	0.42	0.57	Σ SAR < 1.6, Not required
			Left Tilted	0.10	0.39	0.49	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.20	0.12	0.32	Σ SAR < 1.6, Not required
			Rear Face	0.31	0.38	0.69	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.20	0.07	0.27	Σ SAR < 1.6, Not required
			Rear Face	0.31	0.04	0.35	Σ SAR < 1.6, Not required
			Left Side	0.17	0.01	0.18	Σ SAR < 1.6, Not required
			Right Side	0.29	-	0.29	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
			Bottom Side	0.06	-	0.06	Σ SAR < 1.6, Not required
11	WCDMA V + WLAN (NII)	Head	Right Cheek	0.18	0.98	1.16	Σ SAR < 1.6, Not required
			Right Tilted	0.10	0.68	0.78	Σ SAR < 1.6, Not required
			Left Cheek	0.15	0.47	0.62	Σ SAR < 1.6, Not required
			Left Tilted	0.10	0.45	0.55	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.20	0.16	0.36	Σ SAR < 1.6, Not required
			Rear Face	0.31	0.50	0.81	Σ SAR < 1.6, Not required
12	WCDMA V + BT (DSS)	Body-Worn	Front Face	0.20	0.24	0.44	Σ SAR < 1.6, Not required
			Rear Face	0.31	0.24	0.55	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
13	LTE 2 + WLAN (DTS)	Head	Right Cheek	0.22	0.63	0.85	Σ SAR < 1.6, Not required
			Right Tilted	0.19	0.56	0.75	Σ SAR < 1.6, Not required
			Left Cheek	0.58	0.42	1.00	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.39	0.60	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.59	0.12	0.71	Σ SAR < 1.6, Not required
			Rear Face	0.59	0.38	0.97	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.59	0.07	0.66	Σ SAR < 1.6, Not required
			Rear Face	0.59	0.04	0.63	Σ SAR < 1.6, Not required
			Left Side	0.47	0.01	0.48	Σ SAR < 1.6, Not required
			Right Side	0.17	-	0.17	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
Bottom Side	0.37	-	0.37	Σ SAR < 1.6, Not required			
14	LTE 2 + WLAN (NII)	Head	Right Cheek	0.22	0.98	1.20	Σ SAR < 1.6, Not required
			Right Tilted	0.19	0.68	0.87	Σ SAR < 1.6, Not required
			Left Cheek	0.58	0.47	1.05	Σ SAR < 1.6, Not required
			Left Tilted	0.21	0.45	0.66	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.59	0.16	0.75	Σ SAR < 1.6, Not required
			Rear Face	0.59	0.50	1.09	Σ SAR < 1.6, Not required
15	LTE 2 + BT (DSS)	Body-Worn	Front Face	0.59	0.24	0.83	Σ SAR < 1.6, Not required
			Rear Face	0.59	0.24	0.83	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
16	LTE 4 + WLAN (DTS)	Head	Right Cheek	0.30	0.63	0.93	Σ SAR < 1.6, Not required
			Right Tilted	0.20	0.56	0.76	Σ SAR < 1.6, Not required
			Left Cheek	0.53	0.42	0.95	Σ SAR < 1.6, Not required
			Left Tilted	0.23	0.39	0.62	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.48	0.12	0.60	Σ SAR < 1.6, Not required
			Rear Face	0.63	0.38	1.01	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.48	0.07	0.55	Σ SAR < 1.6, Not required
			Rear Face	0.63	0.04	0.67	Σ SAR < 1.6, Not required
			Left Side	0.33	0.01	0.34	Σ SAR < 1.6, Not required
			Right Side	0.10	-	0.10	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
			Bottom Side	0.28	-	0.28	Σ SAR < 1.6, Not required
17	LTE 4 + WLAN (NII)	Head	Right Cheek	0.30	0.98	1.28	Σ SAR < 1.6, Not required
			Right Tilted	0.20	0.68	0.88	Σ SAR < 1.6, Not required
			Left Cheek	0.53	0.47	1.00	Σ SAR < 1.6, Not required
			Left Tilted	0.23	0.45	0.68	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.48	0.16	0.64	Σ SAR < 1.6, Not required
			Rear Face	0.63	0.50	1.13	Σ SAR < 1.6, Not required
18	LTE 4 + BT (DSS)	Body-Worn	Front Face	0.48	0.24	0.72	Σ SAR < 1.6, Not required
			Rear Face	0.63	0.24	0.87	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
19	LTE 5 + WLAN (DTS)	Head	Right Cheek	0.17	0.63	0.80	Σ SAR < 1.6, Not required
			Right Tilted	0.12	0.56	0.68	Σ SAR < 1.6, Not required
			Left Cheek	0.14	0.42	0.56	Σ SAR < 1.6, Not required
			Left Tilted	0.11	0.39	0.50	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.15	0.12	0.27	Σ SAR < 1.6, Not required
			Rear Face	0.25	0.38	0.63	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.15	0.07	0.22	Σ SAR < 1.6, Not required
			Rear Face	0.25	0.04	0.29	Σ SAR < 1.6, Not required
			Left Side	0.13	0.01	0.14	Σ SAR < 1.6, Not required
			Right Side	0.23	-	0.23	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
		Bottom Side	0.04	-	0.04	Σ SAR < 1.6, Not required	
20	LTE 5 + WLAN (NII)	Head	Right Cheek	0.17	0.98	1.15	Σ SAR < 1.6, Not required
			Right Tilted	0.12	0.68	0.80	Σ SAR < 1.6, Not required
			Left Cheek	0.14	0.47	0.61	Σ SAR < 1.6, Not required
			Left Tilted	0.11	0.45	0.56	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.15	0.16	0.31	Σ SAR < 1.6, Not required
			Rear Face	0.25	0.50	0.75	Σ SAR < 1.6, Not required
21	LTE 5 + BT (DSS)	Body-Worn	Front Face	0.15	0.24	0.39	Σ SAR < 1.6, Not required
			Rear Face	0.25	0.24	0.49	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
22	LTE 7 + WLAN (DTS)	Head	Right Cheek	0.10	0.63	0.73	Σ SAR < 1.6, Not required
			Right Tilted	0.09	0.56	0.65	Σ SAR < 1.6, Not required
			Left Cheek	0.07	0.42	0.49	Σ SAR < 1.6, Not required
			Left Tilted	0.02	0.39	0.41	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.13	0.12	0.25	Σ SAR < 1.6, Not required
			Rear Face	0.25	0.38	0.63	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.13	0.07	0.20	Σ SAR < 1.6, Not required
			Rear Face	0.25	0.04	0.29	Σ SAR < 1.6, Not required
			Left Side	0.23	0.01	0.24	Σ SAR < 1.6, Not required
			Right Side	0.01	-	0.01	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
Bottom Side	0.10	-	0.10	Σ SAR < 1.6, Not required			
23	LTE 7 + WLAN (NII)	Head	Right Cheek	0.10	0.98	1.08	Σ SAR < 1.6, Not required
			Right Tilted	0.09	0.68	0.77	Σ SAR < 1.6, Not required
			Left Cheek	0.07	0.47	0.54	Σ SAR < 1.6, Not required
			Left Tilted	0.02	0.45	0.47	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.13	0.16	0.29	Σ SAR < 1.6, Not required
			Rear Face	0.25	0.50	0.75	Σ SAR < 1.6, Not required
24	LTE 7 + BT (DSS)	Body-Worn	Front Face	0.13	0.24	0.37	Σ SAR < 1.6, Not required
			Rear Face	0.25	0.24	0.49	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
25	LTE 17 + WLAN (DTS)	Head	Right Cheek	0.16	0.63	0.79	Σ SAR < 1.6, Not required
			Right Tilted	0.11	0.56	0.67	Σ SAR < 1.6, Not required
			Left Cheek	0.16	0.42	0.58	Σ SAR < 1.6, Not required
			Left Tilted	0.11	0.39	0.50	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.16	0.12	0.28	Σ SAR < 1.6, Not required
			Rear Face	0.35	0.38	0.73	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.16	0.07	0.23	Σ SAR < 1.6, Not required
			Rear Face	0.35	0.04	0.39	Σ SAR < 1.6, Not required
			Left Side	0.23	0.01	0.24	Σ SAR < 1.6, Not required
			Right Side	0.21	-	0.21	Σ SAR < 1.6, Not required
			Top Side	-	0.05	0.05	Σ SAR < 1.6, Not required
Bottom Side	0.02	-	0.02	Σ SAR < 1.6, Not required			
26	LTE 17 + WLAN (NII)	Head	Right Cheek	0.16	0.98	1.14	Σ SAR < 1.6, Not required
			Right Tilted	0.11	0.68	0.79	Σ SAR < 1.6, Not required
			Left Cheek	0.16	0.47	0.63	Σ SAR < 1.6, Not required
			Left Tilted	0.11	0.45	0.56	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.16	0.16	0.32	Σ SAR < 1.6, Not required
			Rear Face	0.35	0.50	0.85	Σ SAR < 1.6, Not required
27	LTE 17 + BT (DSS)	Body-Worn	Front Face	0.16	0.24	0.40	Σ SAR < 1.6, Not required
			Rear Face	0.35	0.24	0.59	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

<EUT Configuration: Tablet PC>

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
28	GSM850 + WLAN (DTS)	Body	Rear Face	0.47	0.93	1.40	Σ SAR < 1.6, Not required
			Top Side	0.75	0.16	0.91	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.17	-	0.17	Σ SAR < 1.6, Not required
29	GSM850 + WLAN (NII)	Body	Rear Face	0.47	1.05	1.52	Σ SAR < 1.6, Not required
			Top Side	0.75	0.65	1.40	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.17	-	0.17	Σ SAR < 1.6, Not required
30	GSM850 + BT (DSS)	Body	Rear Face	0.47	0.06	0.53	Σ SAR < 1.6, Not required
			Top Side	0.75	0.02	0.77	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.17	-	0.17	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
31	GSM1900 + WLAN (DTS)	Body	Rear Face	0.33	0.93	1.26	Σ SAR < 1.6, Not required
			Top Side	0.59	0.16	0.75	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.47	-	0.47	Σ SAR < 1.6, Not required
32	GSM1900 + WLAN (NII)	Body	Rear Face	0.33	1.05	1.38	Σ SAR < 1.6, Not required
			Top Side	0.59	0.65	1.24	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.47	-	0.47	Σ SAR < 1.6, Not required
33	GSM1900 + BT (DSS)	Body	Rear Face	0.33	0.06	0.39	Σ SAR < 1.6, Not required
			Top Side	0.59	0.02	0.61	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.47	-	0.47	Σ SAR < 1.6, Not required



FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
34	WCDMA II + WLAN (DTS)	Body	Rear Face	0.37	0.93	1.30	Σ SAR < 1.6, Not required
			Top Side	0.57	0.16	0.73	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.34	-	0.34	Σ SAR < 1.6, Not required
35	WCDMA II + WLAN (NII)	Body	Rear Face	0.37	1.05	1.42	Σ SAR < 1.6, Not required
			Top Side	0.57	0.65	1.22	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.34	-	0.34	Σ SAR < 1.6, Not required
36	WCDMA II + BT (DSS)	Body	Rear Face	0.37	0.06	0.43	Σ SAR < 1.6, Not required
			Top Side	0.57	0.02	0.59	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.34	-	0.34	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
37	WCDMA V + WLAN (DTS)	Body	Rear Face	0.26	0.93	1.19	Σ SAR < 1.6, Not required
			Top Side	0.47	0.16	0.63	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.09	-	0.09	Σ SAR < 1.6, Not required
38	WCDMA V + WLAN (NII)	Body	Rear Face	0.26	1.05	1.31	Σ SAR < 1.6, Not required
			Top Side	0.47	0.65	1.12	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.09	-	0.09	Σ SAR < 1.6, Not required
39	WCDMA V + BT (DSS)	Body	Rear Face	0.26	0.06	0.32	Σ SAR < 1.6, Not required
			Top Side	0.47	0.02	0.49	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.09	-	0.09	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
40	LTE 2 + WLAN (DTS)	Body	Rear Face	0.36	0.93	1.29	Σ SAR < 1.6, Not required
			Top Side	0.77	0.16	0.93	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.36	-	0.36	Σ SAR < 1.6, Not required
41	LTE 2 + WLAN (NII)	Body	Rear Face	0.36	1.05	1.41	Σ SAR < 1.6, Not required
			Top Side	0.77	0.65	1.42	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.36	-	0.36	Σ SAR < 1.6, Not required
42	LTE 2 + BT (DSS)	Body	Rear Face	0.36	0.06	0.42	Σ SAR < 1.6, Not required
			Top Side	0.77	0.02	0.79	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.36	-	0.36	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
43	LTE 4 + WLAN (DTS)	Body	Rear Face	0.53	0.93	1.46	Σ SAR < 1.6, Not required
			Top Side	0.66	0.16	0.82	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.41	-	0.41	Σ SAR < 1.6, Not required
44	LTE 4 + WLAN (NII)	Body	Rear Face	0.53	1.05	1.58	Σ SAR < 1.6, Not required
			Top Side	0.66	0.65	1.31	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.41	-	0.41	Σ SAR < 1.6, Not required
45	LTE 4 + BT (DSS)	Body	Rear Face	0.53	0.06	0.59	Σ SAR < 1.6, Not required
			Top Side	0.66	0.02	0.68	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.41	-	0.41	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
46	LTE 5 + WLAN (DTS)	Body	Rear Face	0.26	0.93	1.19	Σ SAR < 1.6, Not required
			Top Side	0.52	0.16	0.68	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.07	-	0.07	Σ SAR < 1.6, Not required
47	LTE 5 + WLAN (NII)	Body	Rear Face	0.26	1.05	1.31	Σ SAR < 1.6, Not required
			Top Side	0.52	0.65	1.17	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.07	-	0.07	Σ SAR < 1.6, Not required
48	LTE 5 + BT (DSS)	Body	Rear Face	0.26	0.06	0.32	Σ SAR < 1.6, Not required
			Top Side	0.52	0.02	0.54	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.07	-	0.07	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
49	LTE 7 + WLAN (DTS)	Body	Rear Face	0.12	0.93	1.05	Σ SAR < 1.6, Not required
			Top Side	0.84	0.16	1.00	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.13	-	0.13	Σ SAR < 1.6, Not required
50	LTE 7 + WLAN (NII)	Body	Rear Face	0.12	1.05	1.17	Σ SAR < 1.6, Not required
			Top Side	0.84	0.65	1.49	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.13	-	0.13	Σ SAR < 1.6, Not required
51	LTE 7 + BT (DSS)	Body	Rear Face	0.12	0.06	0.18	Σ SAR < 1.6, Not required
			Top Side	0.84	0.02	0.86	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.13	-	0.13	Σ SAR < 1.6, Not required



FCC SAR Test Report

A D T

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
52	LTE 17 + WLAN (DTS)	Body	Rear Face	0.25	0.93	1.18	Σ SAR < 1.6, Not required
			Top Side	0.29	0.16	0.45	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.24	-	0.24	Σ SAR < 1.6, Not required
53	LTE 17 + WLAN (NII)	Body	Rear Face	0.25	1.05	1.30	Σ SAR < 1.6, Not required
			Top Side	0.29	0.65	0.94	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.24	-	0.24	Σ SAR < 1.6, Not required
54	LTE 17 + BT (DSS)	Body	Rear Face	0.25	0.06	0.31	Σ SAR < 1.6, Not required
			Top Side	0.29	0.02	0.31	Σ SAR < 1.6, Not required
			Bottom Side	-	-	0.00	Σ SAR < 1.6, Not required
			Left Side	-	-	0.00	Σ SAR < 1.6, Not required
			Right Side	0.24	-	0.24	Σ SAR < 1.6, Not required

FCC SAR Test Report

<SAR to Peak Location Separation Ratio Analysis>

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following formula.

$$\text{Peak Location Separation Distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

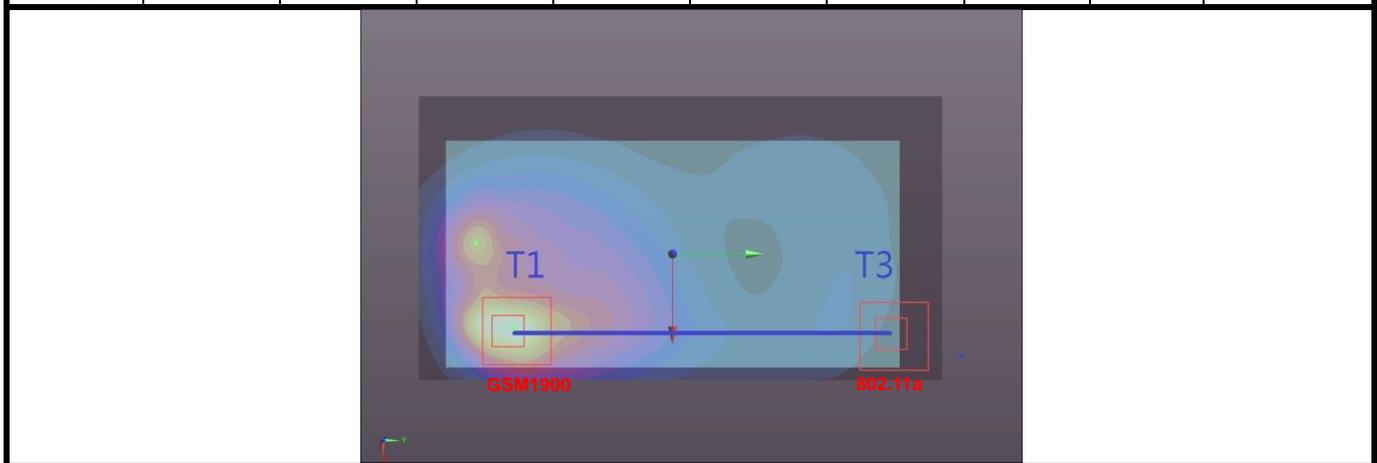
The SPLSR is determined by the following formula.

$$\text{SPLSR} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

Where SAR_1 and SAR_2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When the SPLSR is ≤ 0.04 , the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i , mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900 Ch512	Body	Rear Face	1.18	2.35	-5.48	-0.32	123.3	0.018	SPLSR < 0.04, Not required
802.11a Ch52			0.50	2.55	6.85	-0.26			



Test Engineer : Morrison Huang, and Rory Cheng



FCC SAR Test Report

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Kit	SPEAG	D750V3	1013	Apr. 25, 2013	Annual
System Validation Kit	SPEAG	D835V2	4d121	Apr. 25, 2013	Annual
System Validation Kit	SPEAG	D1750V2	1055	Aug. 27, 2013	Annual
System Validation Kit	SPEAG	D1900V2	5d022	Jul. 29, 2013	Annual
System Validation Kit	SPEAG	D1900V2	5d036	Jan. 21, 2013	Annual
System Validation Kit	SPEAG	D2450V2	737	Jan. 21, 2013	Annual
System Validation Kit	SPEAG	D2600V2	1020	Jan. 18, 2013	Annual
System Validation Kit	SPEAG	D5GHzV2	1018	Jul. 24, 2013	Annual
Dosimetric E-Field Probe	SPEAG	EX3DV4	3590	Feb. 20, 2013	Annual
Dosimetric E-Field Probe	SPEAG	EX3DV4	3650	Apr. 30, 2013	Annual
Dosimetric E-Field Probe	SPEAG	EX3DV4	3801	Jun. 20, 2013	Annual
Dosimetric E-Field Probe	SPEAG	EX3DV4	3864	Jul. 31, 2013	Annual
Data Acquisition Electronics	SPEAG	DAE3	360	Jan. 30, 2013	Annual
Data Acquisition Electronics	SPEAG	DAE3	579	Apr. 24, 2013	Annual
Data Acquisition Electronics	SPEAG	DAE4	861	Mar. 19, 2013	Annual
Data Acquisition Electronics	SPEAG	DAE4	1277	Jul. 26, 2013	Annual
SAM Phantom	SPEAG	QD000P40CD	TP-1127	N/A	N/A
SAM Phantom	SPEAG	QD000P40CD	TP-1496	N/A	N/A
SAM Phantom	SPEAG	QD000P40CD	TP-1652	N/A	N/A
SAM Phantom	SPEAG	QD000P40CD	TP-1653	N/A	N/A
SAM Phantom	SPEAG	QD000P40CD	TP-1654	N/A	N/A
ELI Phantom	SPEAG	QDOVA001B	TP-1043	N/A	N/A
ELI Phantom	SPEAG	QDOVA002AA	1204	N/A	N/A
ELI Phantom	SPEAG	QDOVA002AA	1206	N/A	N/A
Radio Communication Tester	Agilent	E5515C	MY50266630	Oct. 02, 2013	Biennial
Radio Communication Analyzer	Anritsu	MT8820C	6201010285	Aug. 06, 2013	Biennial
ENA Series Network Analyzer	Agilent	E5071C	MY46214281	Jun. 10, 2013	Annual
MXG Analog Signal Generator	Agilent	N5181A	MY50143868	Jun. 06, 2013	Annual
Power Meter	Anritsu	ML2495A	1218009	Jun. 11, 2013	Annual
Power Sensor	Anritsu	MA2411B	1207252	Jun. 11, 2013	Annual
EXA Spectrum Analyzer	Agilent	N9010A	MY52100136	Jun. 26, 2013	Annual
Dielectric Probe Kit	Agilent	85070D	E2-020018	May 13, 2013	Annual
Thermometer	YFE	YF-160A	110600361	Feb. 20, 2013	Annual
Directional Coupler	Woken	0110A05602O-10	11122702	Apr. 18, 2013	Annual
Power Amplifier	AR	5S1G4	0339656	Apr. 18, 2013	Annual
Power Amplifier	Mini-Circuit	ZVE-8G	001000422	Apr. 18, 2013	Annual
Attenuator	Woken	00800A1G01L-03	N/A	Apr. 18, 2013	Annual

6. Measurement Uncertainty

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Standard Uncertainty (1g)	Vi
Measurement System						
Probe Calibration	6.0	Normal	1	1	± 6.0 %	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	± 1.9 %	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	± 3.9 %	∞
Boundary Effects	1.0	Rectangular	√3	1	± 0.6 %	∞
Linearity	4.7	Rectangular	√3	1	± 2.7 %	∞
System Detection Limits	1.0	Rectangular	√3	1	± 0.6 %	∞
Readout Electronics	0.6	Normal	1	1	± 0.6 %	∞
Response Time	0.0	Rectangular	√3	1	± 0.0 %	∞
Integration Time	1.7	Rectangular	√3	1	± 1.0 %	∞
RF Ambient Noise	3.0	Rectangular	√3	1	± 1.7 %	∞
RF Ambient Reflections	3.0	Rectangular	√3	1	± 1.7 %	∞
Probe Positioner	0.5	Rectangular	√3	1	± 0.3 %	∞
Probe Positioning	2.9	Rectangular	√3	1	± 1.7 %	∞
Max. SAR Eval.	2.3	Rectangular	√3	1	± 1.3 %	∞
Test Sample Related						
Device Positioning	3.9	Normal	1	1	± 3.9 %	31
Device Holder	2.7	Normal	1	1	± 2.7 %	19
Power Drift	5.0	Rectangular	√3	1	± 2.9 %	∞
Phantom and Setup						
Phantom Uncertainty	4.0	Rectangular	√3	1	± 2.3 %	∞
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	± 1.8 %	∞
Liquid Conductivity (Meas.)	5.0	Normal	1	0.64	± 3.2 %	29
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	± 1.7 %	∞
Liquid Permittivity (Meas.)	5.0	Normal	1	0.6	± 3.0 %	29
Combined Standard Uncertainty					± 11.7 %	
Expanded Uncertainty (K=2)					± 23.4 %	

Uncertainty budget for frequency range 300 MHz to 3 GHz



FCC SAR Test Report

A D T

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Standard Uncertainty (1g)	Vi
Measurement System						
Probe Calibration	6.55	Normal	1	1	± 6.55 %	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	± 1.9 %	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	± 3.9 %	∞
Boundary Effects	2.0	Rectangular	√3	1	± 1.2 %	∞
Linearity	4.7	Rectangular	√3	1	± 2.7 %	∞
System Detection Limits	1.0	Rectangular	√3	1	± 0.6 %	∞
Readout Electronics	0.3	Normal	1	1	± 0.3 %	∞
Response Time	0.8	Rectangular	√3	1	± 0.5 %	∞
Integration Time	2.6	Rectangular	√3	1	± 1.5 %	∞
RF Ambient Noise	3.0	Rectangular	√3	1	± 1.7 %	∞
RF Ambient Reflections	3.0	Rectangular	√3	1	± 1.7 %	∞
Probe Positioner	0.8	Rectangular	√3	1	± 0.5 %	∞
Probe Positioning	9.9	Rectangular	√3	1	± 5.7 %	∞
Max. SAR Eval.	4.0	Rectangular	√3	1	± 2.3 %	∞
Test Sample Related						
Device Positioning	3.9	Normal	1	1	± 3.9 %	31
Device Holder	2.7	Normal	1	1	± 2.7 %	19
Power Drift	5.0	Rectangular	√3	1	± 2.9 %	∞
Phantom and Setup						
Phantom Uncertainty	4.0	Rectangular	√3	1	± 2.3 %	∞
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	± 1.8 %	∞
Liquid Conductivity (Meas.)	5.0	Normal	1	0.64	± 3.2 %	30
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	± 1.7 %	∞
Liquid Permittivity (Meas.)	5.0	Normal	1	0.6	± 3.0 %	30
Combined Standard Uncertainty					± 13.4 %	
Expanded Uncertainty (K=2)					± 26.8 %	

Uncertainty budget for frequency range 3 GHz to 6 GHz



FCC SAR Test Report

7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Taiwan HwaYa EMC/RF/Safety/Telecom Lab:

Add: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil., Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

Tel: 886-3-318-3232

Fax: 886-3-327-0892

Taiwan LinKo EMC/RF Lab:

Add: No. 47, 14th Ling, Chia Pau Vil., Linkou Dist., New Taipei City 244, Taiwan, R.O.C.

Tel: 886-2-2605-2180

Fax: 886-2-2605-1924

Taiwan HsinChu EMC/RF Lab:

Add: No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Vil., Chiung Lin Township, Hsinchu County 307, Taiwan, R.O.C.

Tel: 886-3-593-5343

Fax: 886-3-593-5342

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

The road map of all our labs can be found in our web site also.

---END---



Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

System Check_H750_140106

DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: H750_0106 Medium parameters used: $f = 750$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 40.492$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.3 °C ; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9.39, 9.39, 9.39); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.63 W/kg

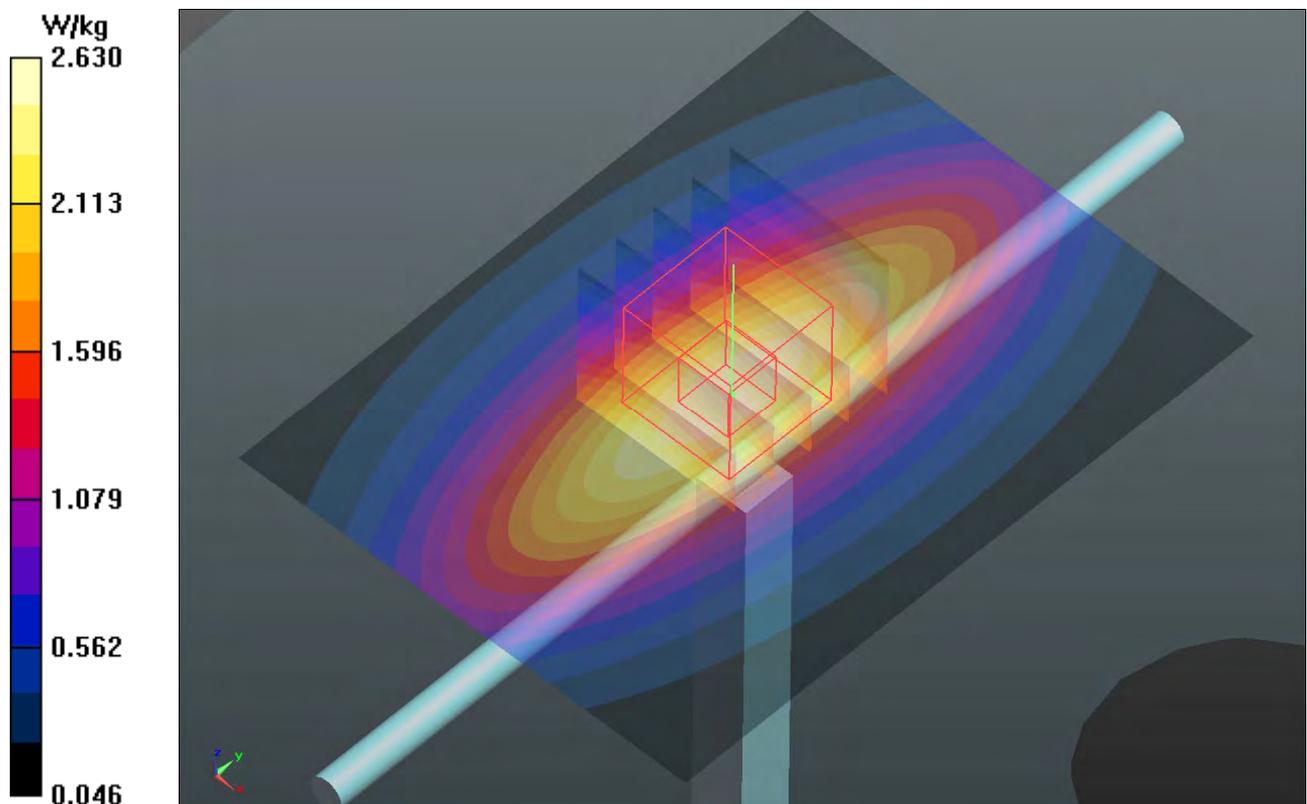
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.628 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.19 W/kg

SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.43 W/kg

Maximum value of SAR (measured) = 2.72 W/kg



System Check_H835_140106

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

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

Medium: H835_0106 Medium parameters used: $f = 835$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 42.897$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.3 °C ; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.83 W/kg

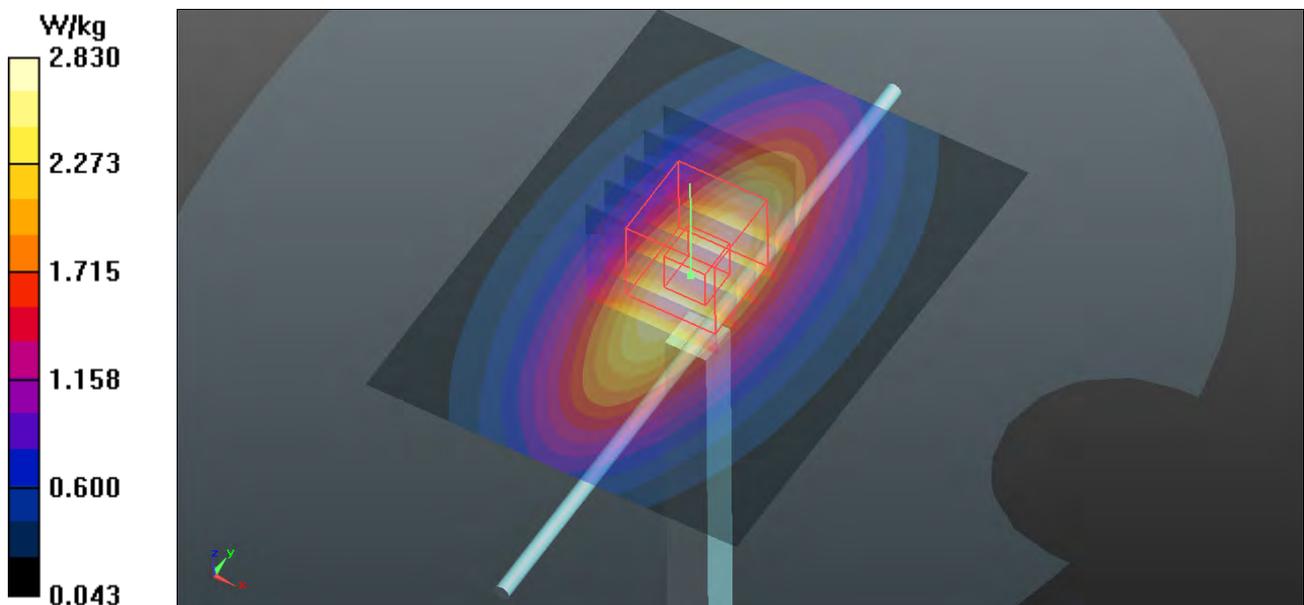
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.622 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.51 W/kg

Maximum value of SAR (measured) = 2.94 W/kg



System Check_H1750_140115

DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

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

Medium: H1750_0115 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 39.714$; $\rho = 1000$ kg/m³

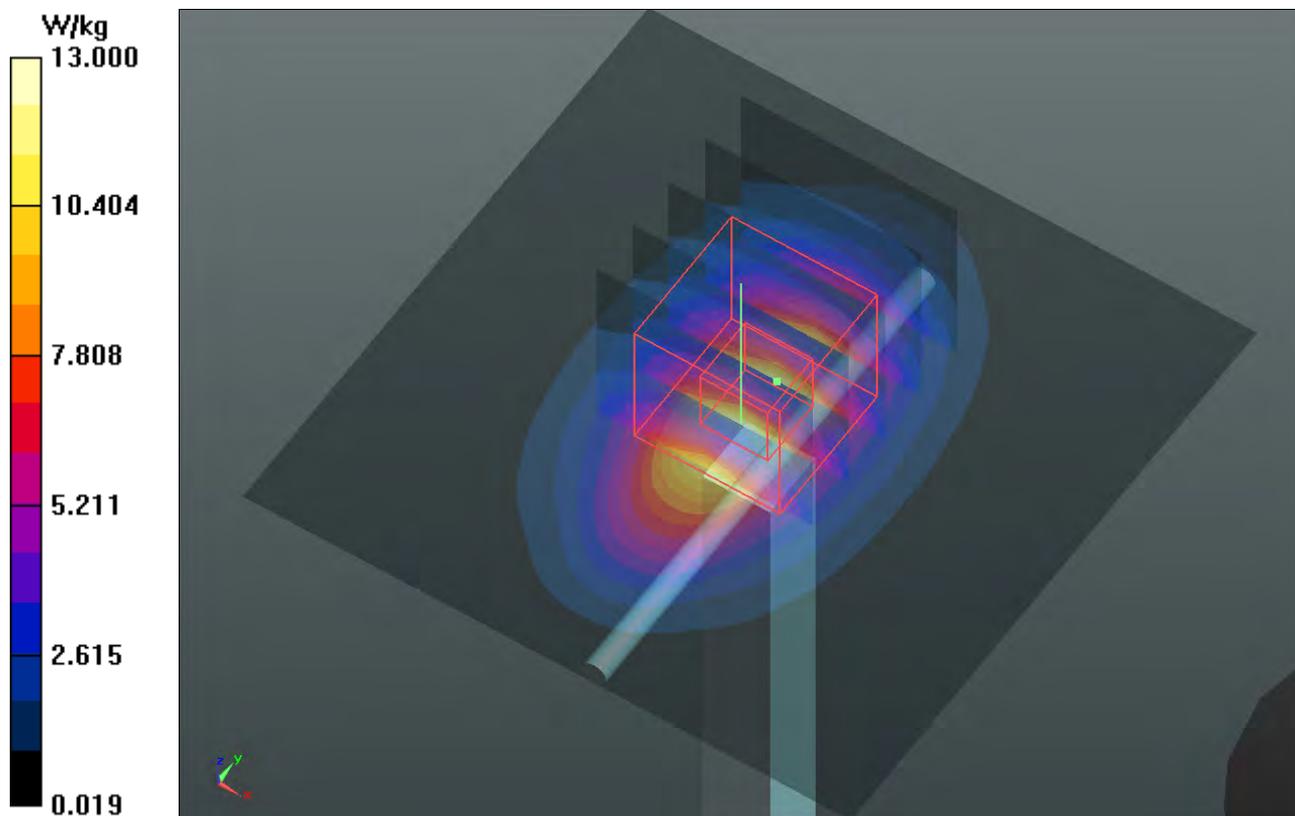
Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.49, 8.49, 8.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.0 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 97.937 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 15.8 W/kg
SAR(1 g) = 8.71 W/kg; SAR(10 g) = 4.62 W/kg
Maximum value of SAR (measured) = 12.4 W/kg



System Check_H1900_140106

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

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

Medium: H1900_0106 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.442 \text{ S/m}$; $\epsilon_r = 39.194$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $21.5 \text{ }^\circ\text{C}$; Liquid Temperature : $20.9 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(7.67, 7.67, 7.67); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

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

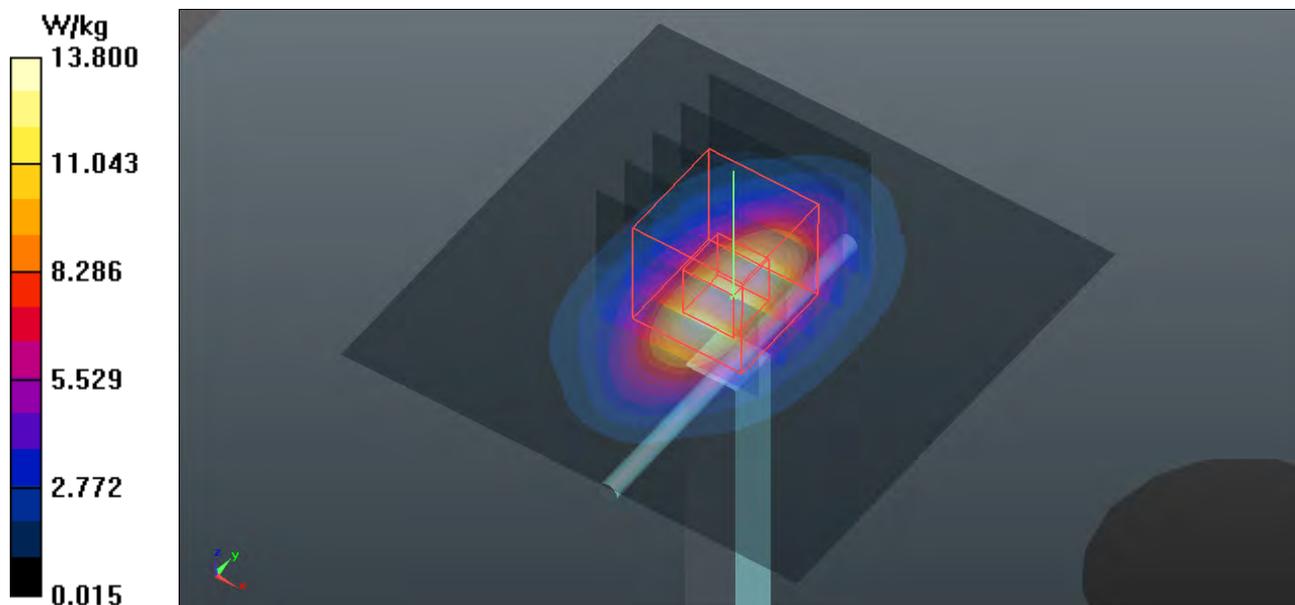
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 99.695 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.5 W/kg ; SAR(10 g) = 4.85 W/kg

Maximum value of SAR (measured) = 13.9 W/kg



System Check_H1900_140115

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

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

Medium: H1900_0115 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 40.328$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.2, 8.2, 8.2); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.7 W/kg

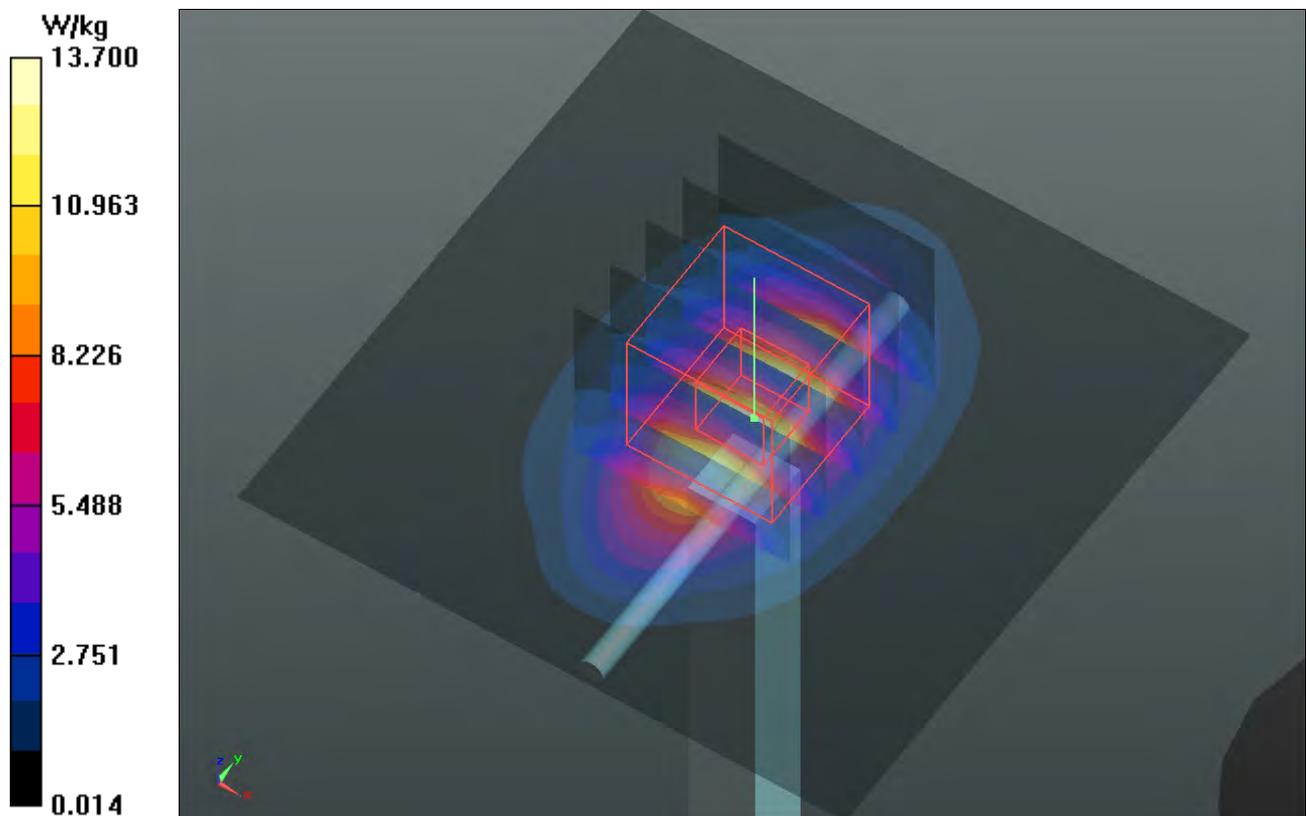
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.757 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 9.67 W/kg; SAR(10 g) = 4.86 W/kg

Maximum value of SAR (measured) = 14.2 W/kg



System Check_H2450_140103

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

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

Medium: H2450_0103 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.782$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.7 °C; Liquid Temperature : 20.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.99, 6.99, 6.99); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.3 W/kg

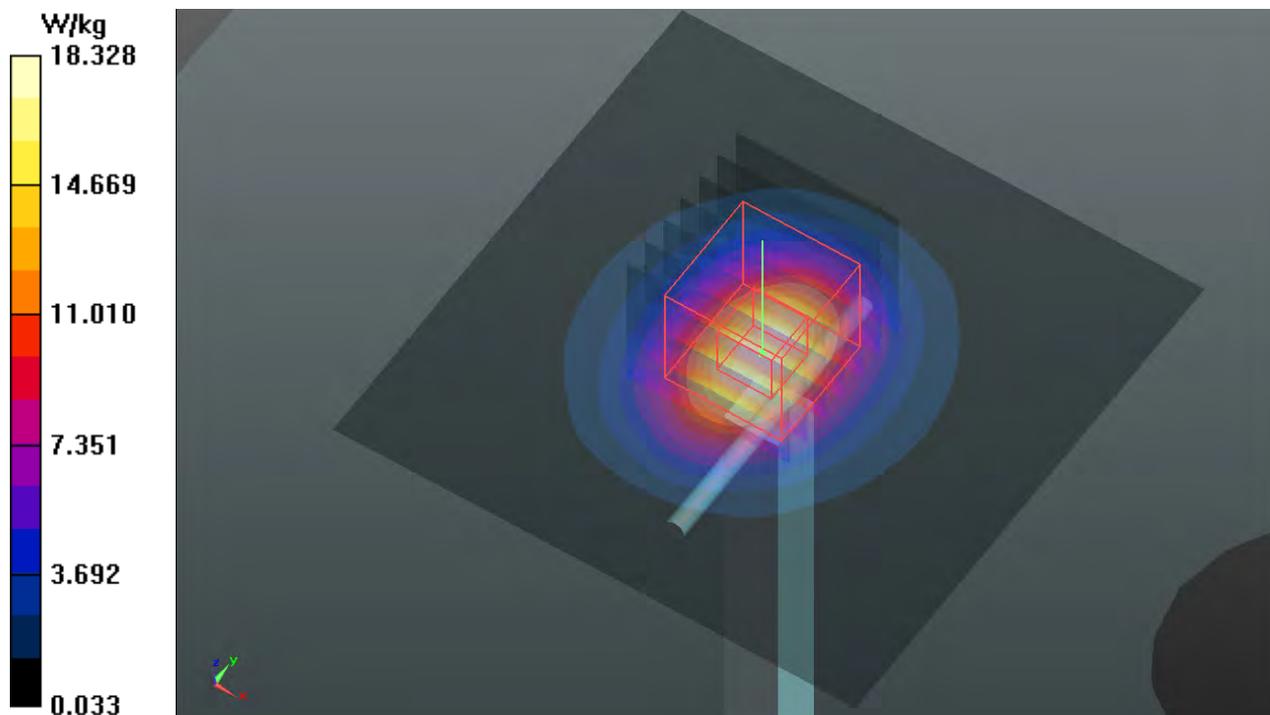
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.1 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 24.3 W/kg

SAR(1 g) = 12.3 W/kg; SAR(10 g) = 6.06 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



System Check_H2600_140103

DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

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

Medium: H2600_0103 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.056$ S/m; $\epsilon_r = 37.589$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.8 °C; Liquid Temperature : 21.0 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.85, 6.85, 6.85); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

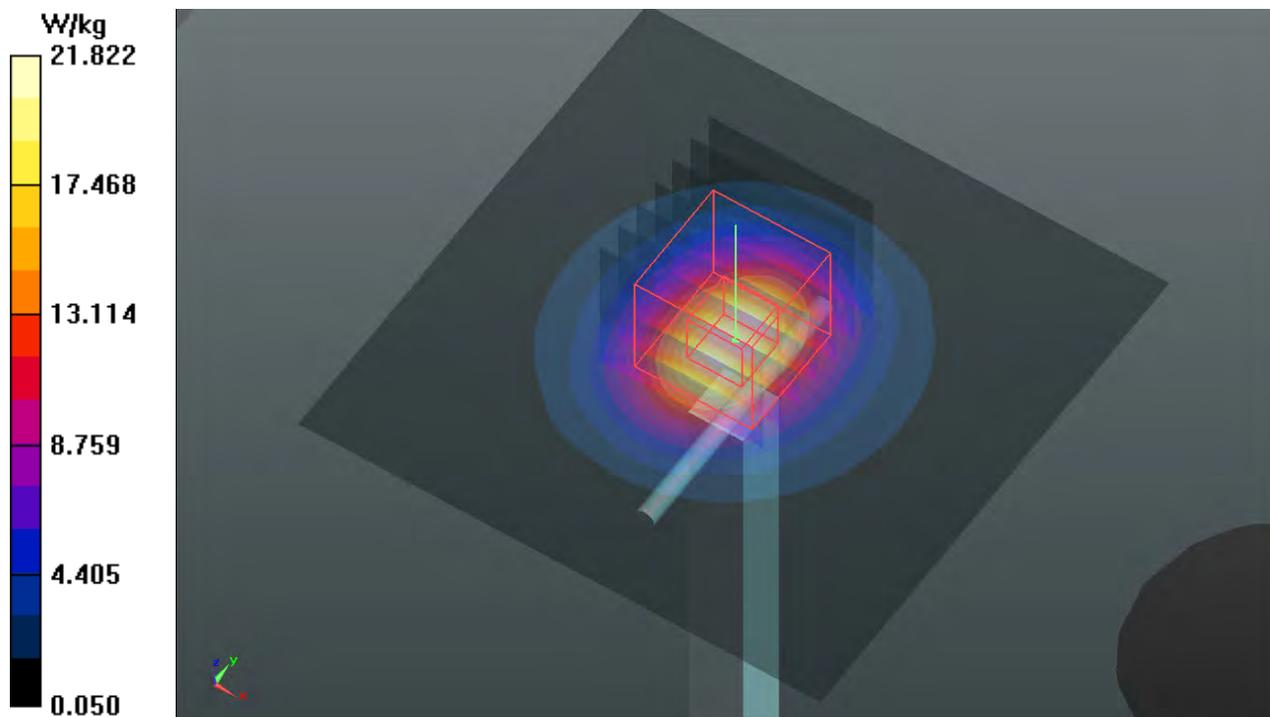
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.4 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 29.7 W/kg

SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.93 W/kg

Maximum value of SAR (measured) = 22.0 W/kg



System Check_H5200_140117

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: H5G_0117 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.842$ S/m; $\epsilon_r = 35.259$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C ; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(5.33, 5.33, 5.33); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

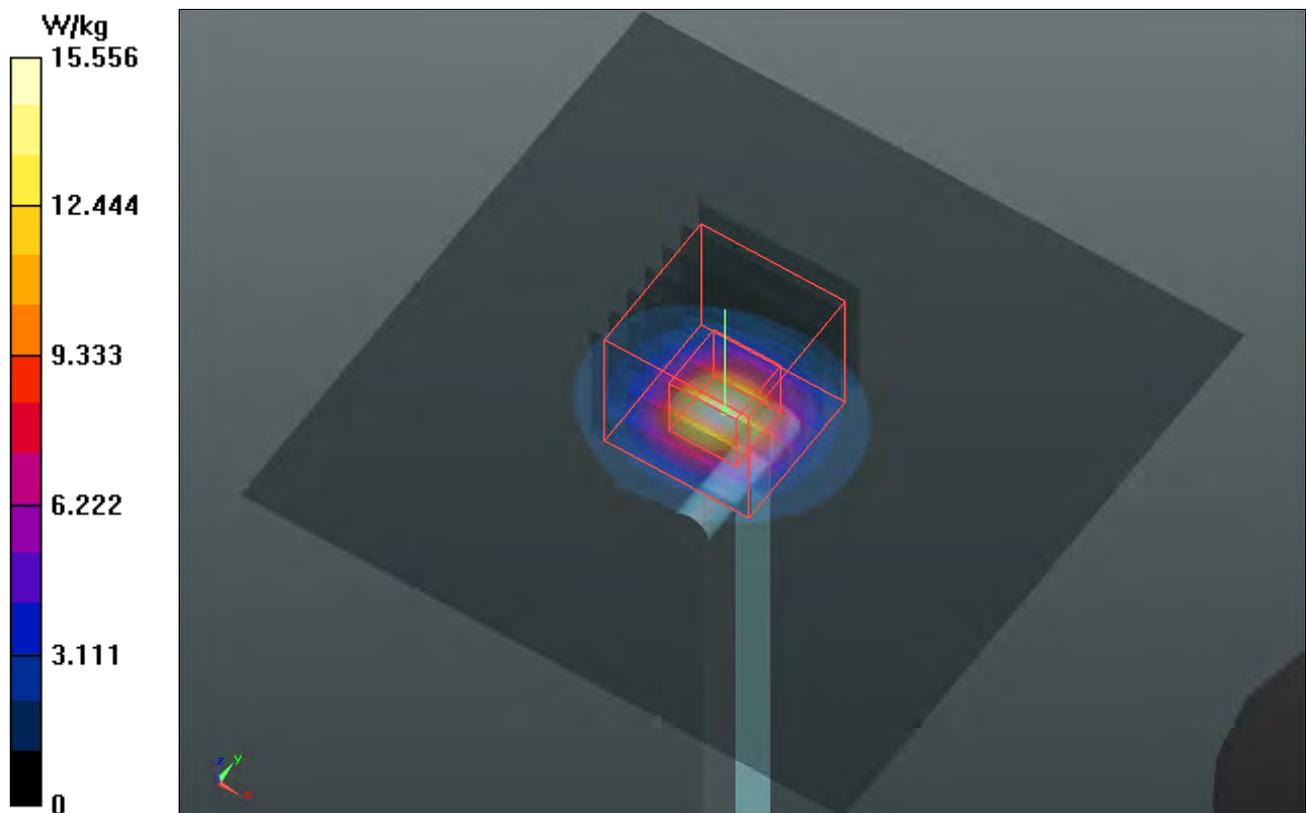
Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 15.6 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 57.582 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.12 W/kg

Maximum value of SAR (measured) = 15.8 W/kg



System Check_H5300_140117

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: H5G_0117 Medium parameters used: $f = 5300$ MHz; $\sigma = 4.957$ S/m; $\epsilon_r = 35.073$; $\rho = 1000$ kg/m³

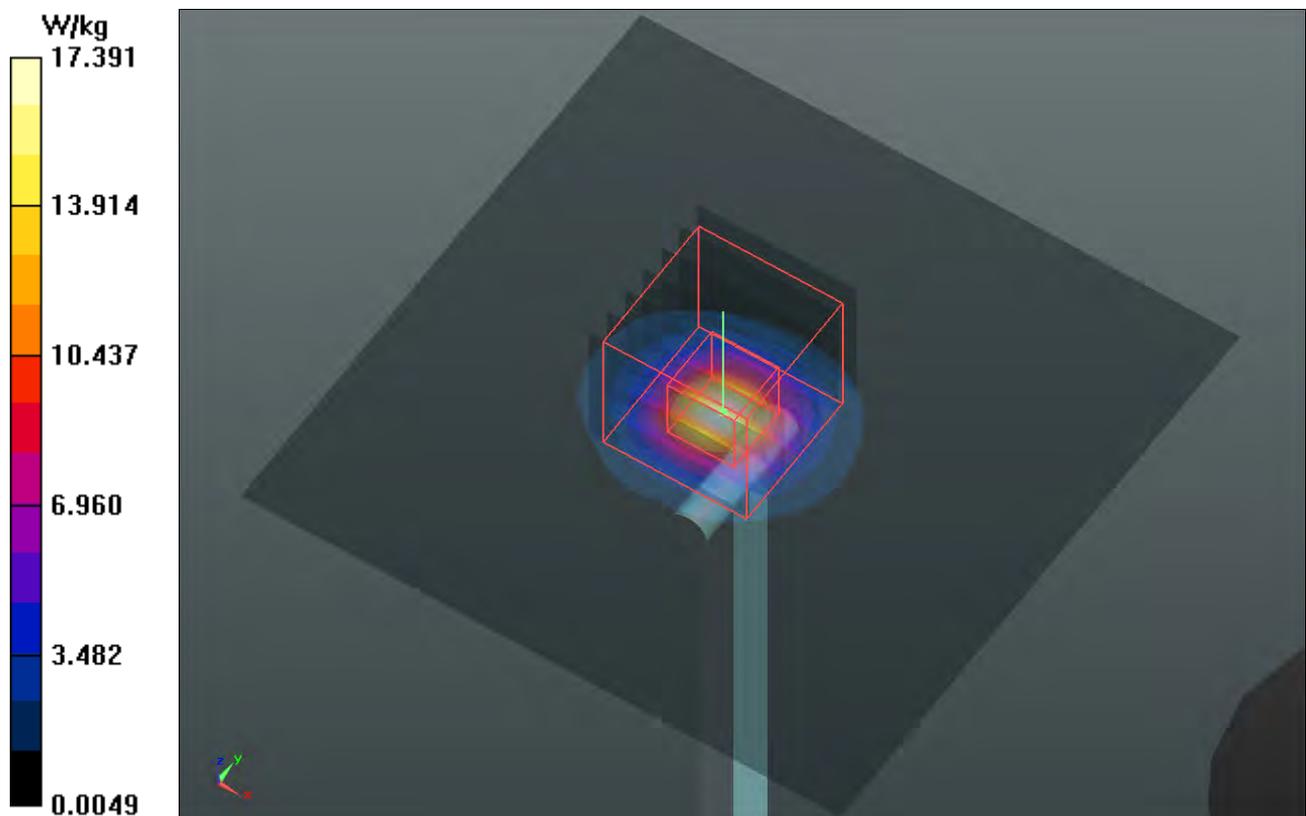
Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.69, 4.69, 4.69); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 17.4 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 58.897 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 35.4 W/kg
SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.23 W/kg
Maximum value of SAR (measured) = 16.7 W/kg



System Check_H5600_140117

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H5G_0117 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.285$ S/m; $\epsilon_r = 34.528$; $\rho = 1000$ kg/m³

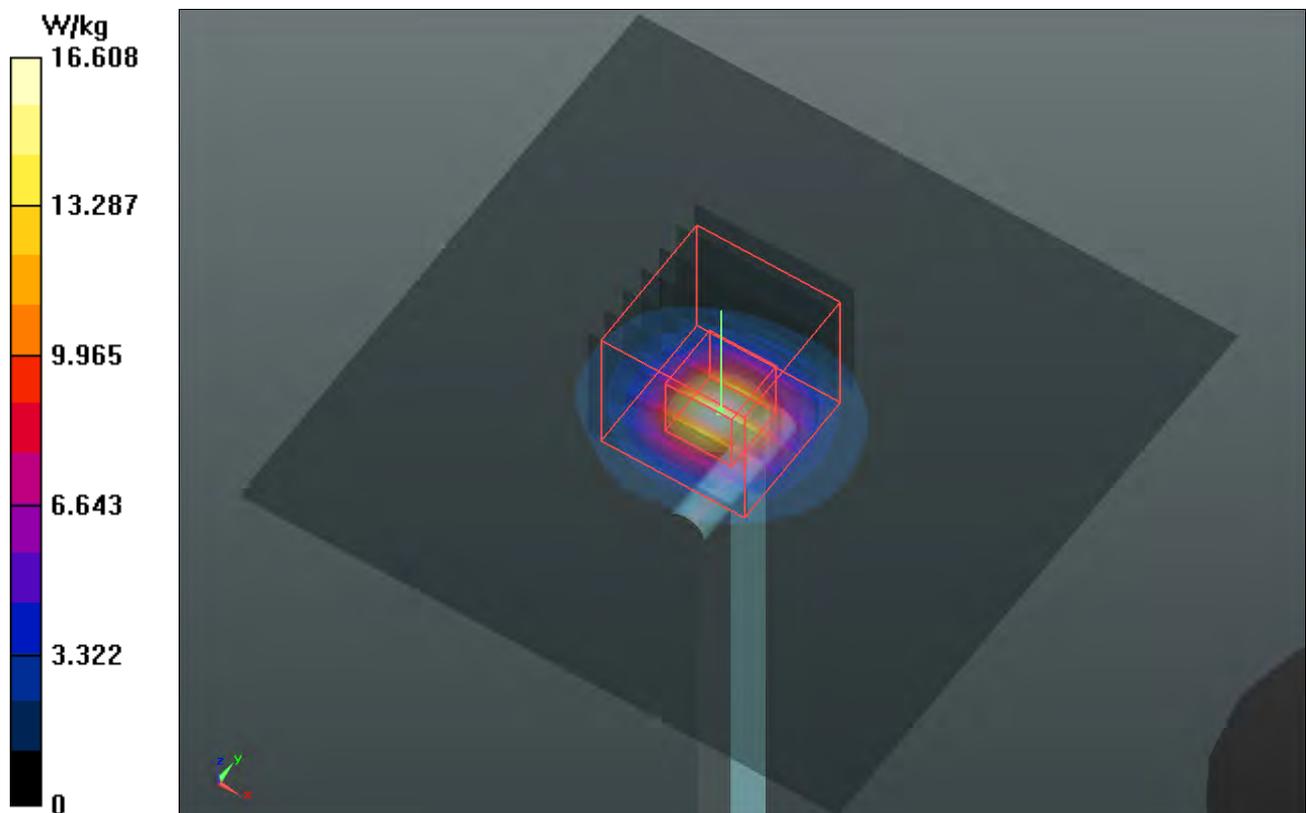
Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.69, 4.69, 4.69); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 16.6 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 57.387 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 34.5 W/kg
SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.17 W/kg
Maximum value of SAR (measured) = 15.9 W/kg



System Check_H5800_140117

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: H5G_0117 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.508$ S/m; $\epsilon_r = 34.184$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.69, 4.69, 4.69); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

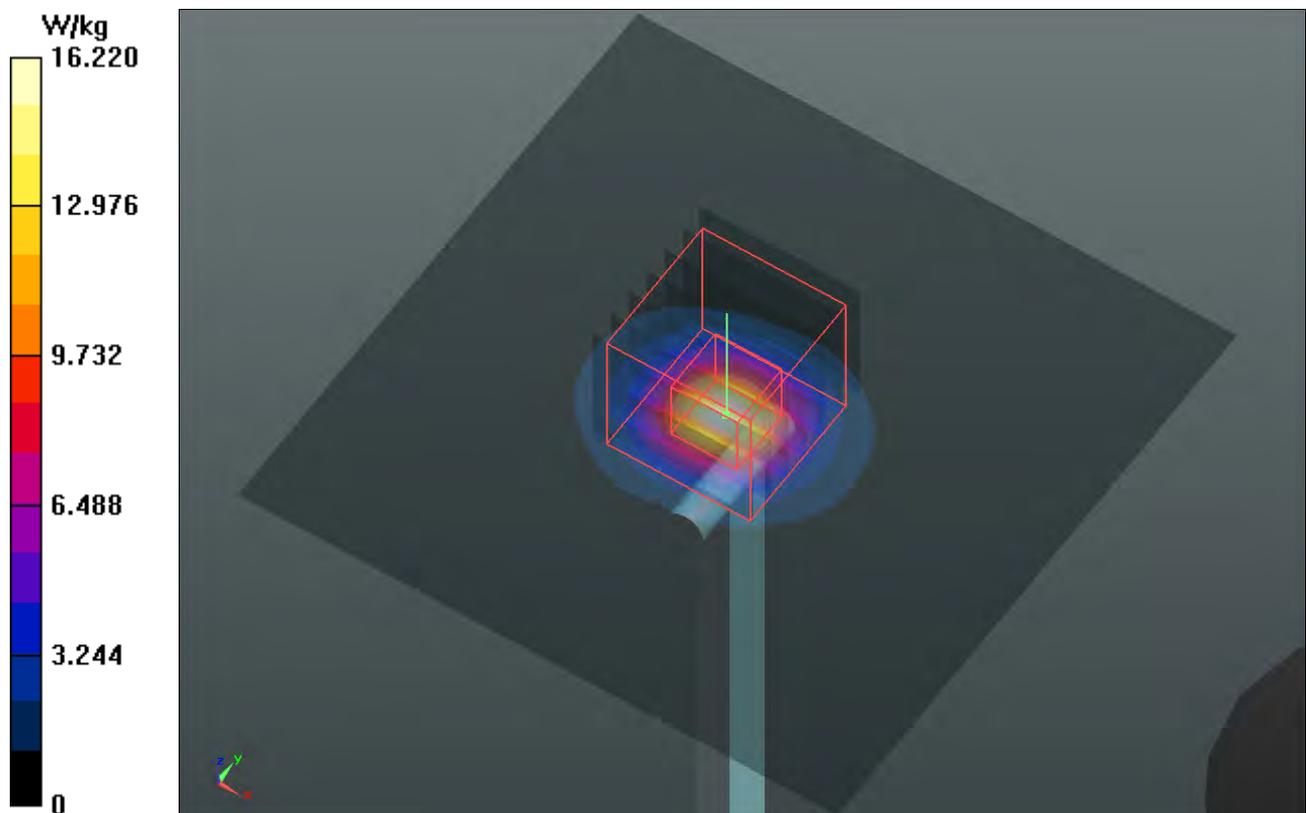
Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 16.2 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 56.825 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 35.7 W/kg

SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 16.3 W/kg



System Check_B750_140107

DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: B750_0107 Medium parameters used: $f = 750$ MHz; $\sigma = 0.967$ S/m; $\epsilon_r = 55.24$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.51, 9.51, 9.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.76 W/kg

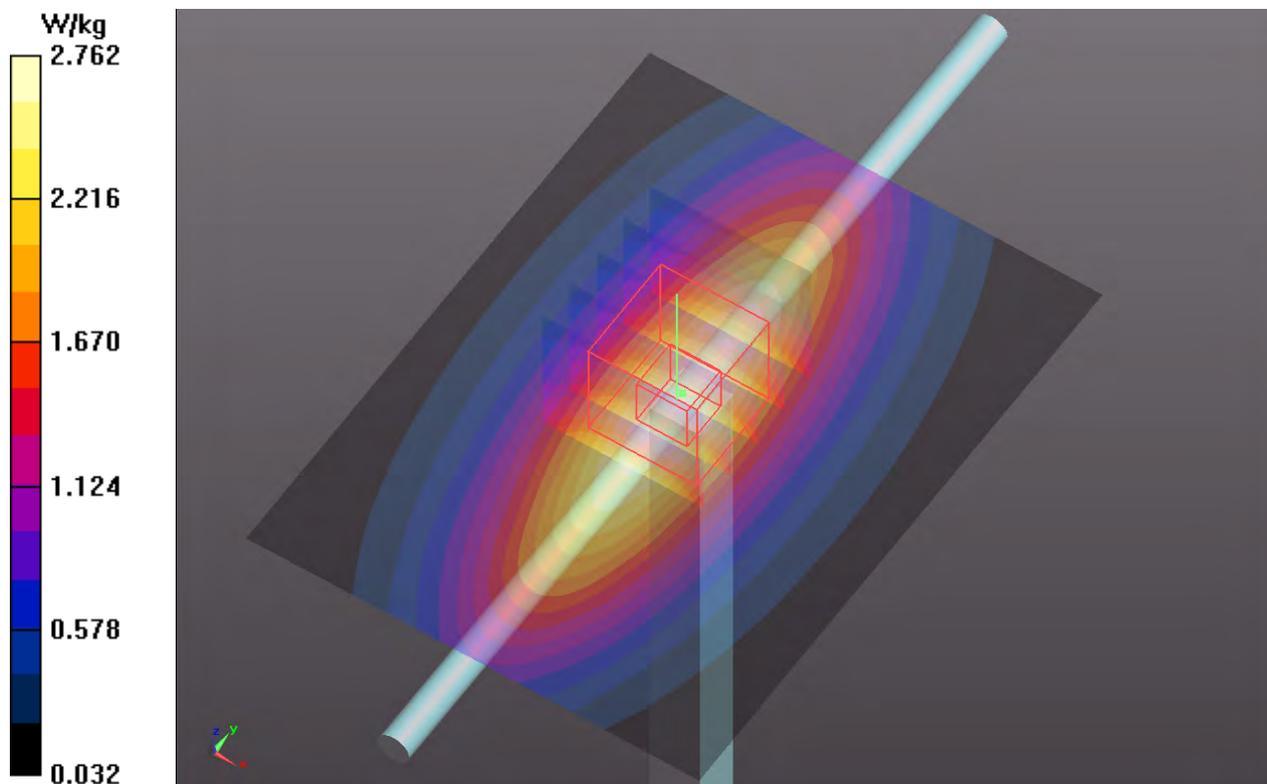
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.319 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.48 W/kg

Maximum value of SAR (measured) = 2.77 W/kg



System Check_B750_140116

DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: B750_0116 Medium parameters used: $f = 750$ MHz; $\sigma = 0.966$ S/m; $\epsilon_r = 55.259$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.15, 10.15, 10.15); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.99 W/kg

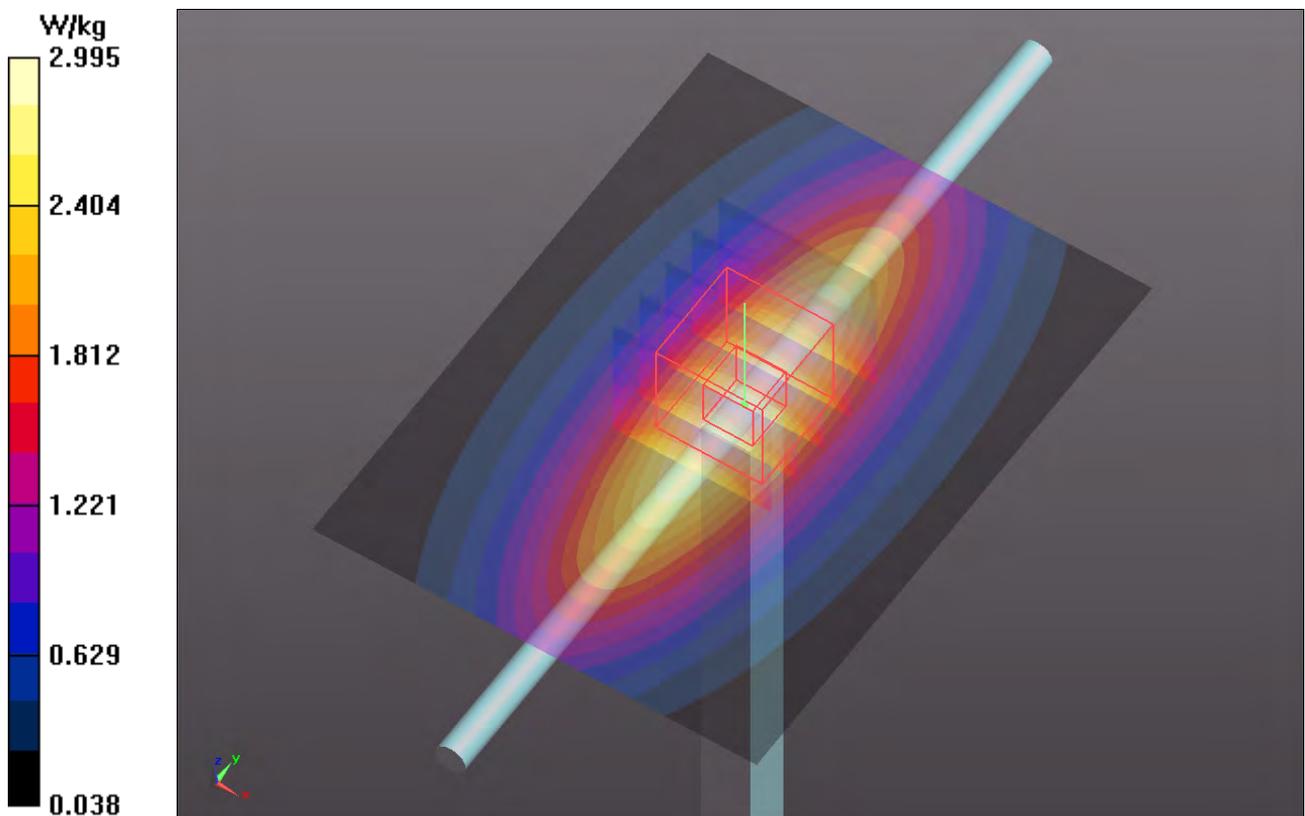
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.102 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.43 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.62 W/kg

Maximum value of SAR (measured) = 2.99 W/kg



System Check_B835_140104

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

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

Medium: B835_0104 Medium parameters used: $f = 835$ MHz; $\sigma = 0.999$ S/m; $\epsilon_r = 56.864$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

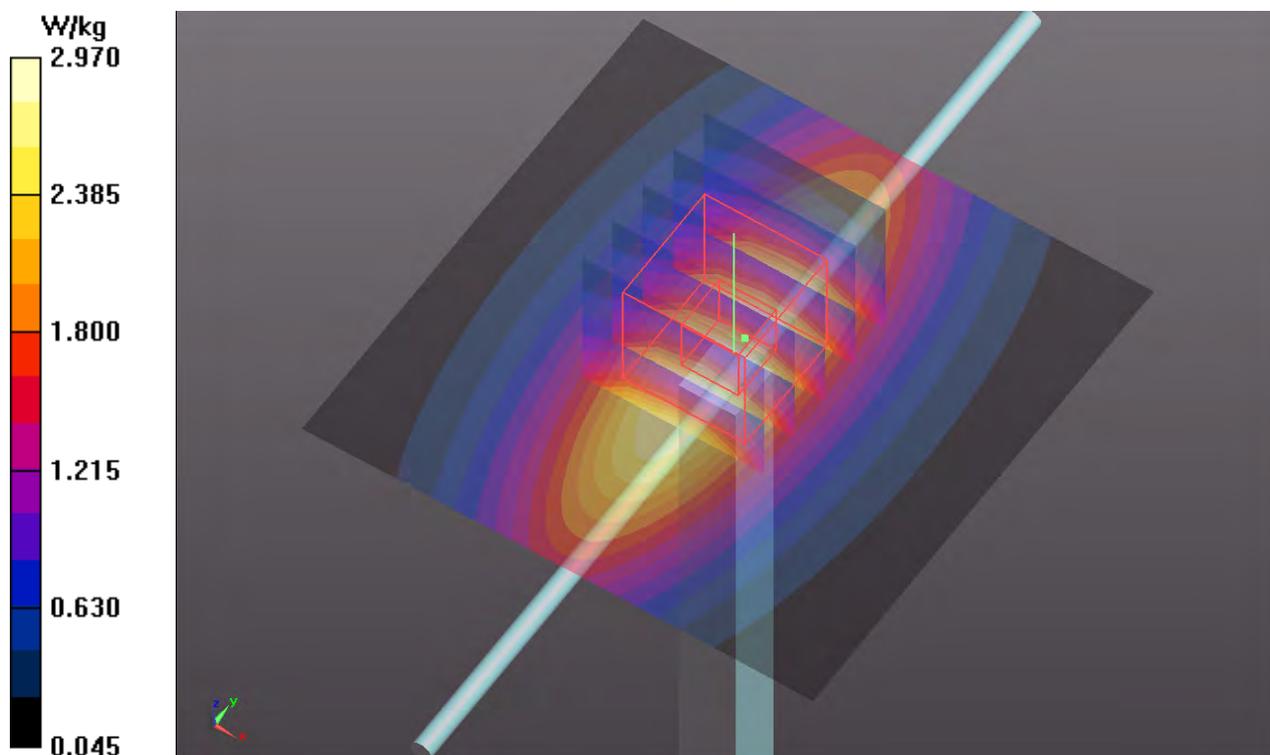
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 51.997 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 2.95 W/kg



System Check_B835_140107

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

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

Medium: B835_0107 Medium parameters used: $f = 835$ MHz; $\sigma = 0.998$ S/m; $\epsilon_r = 56.679$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.32 W/kg

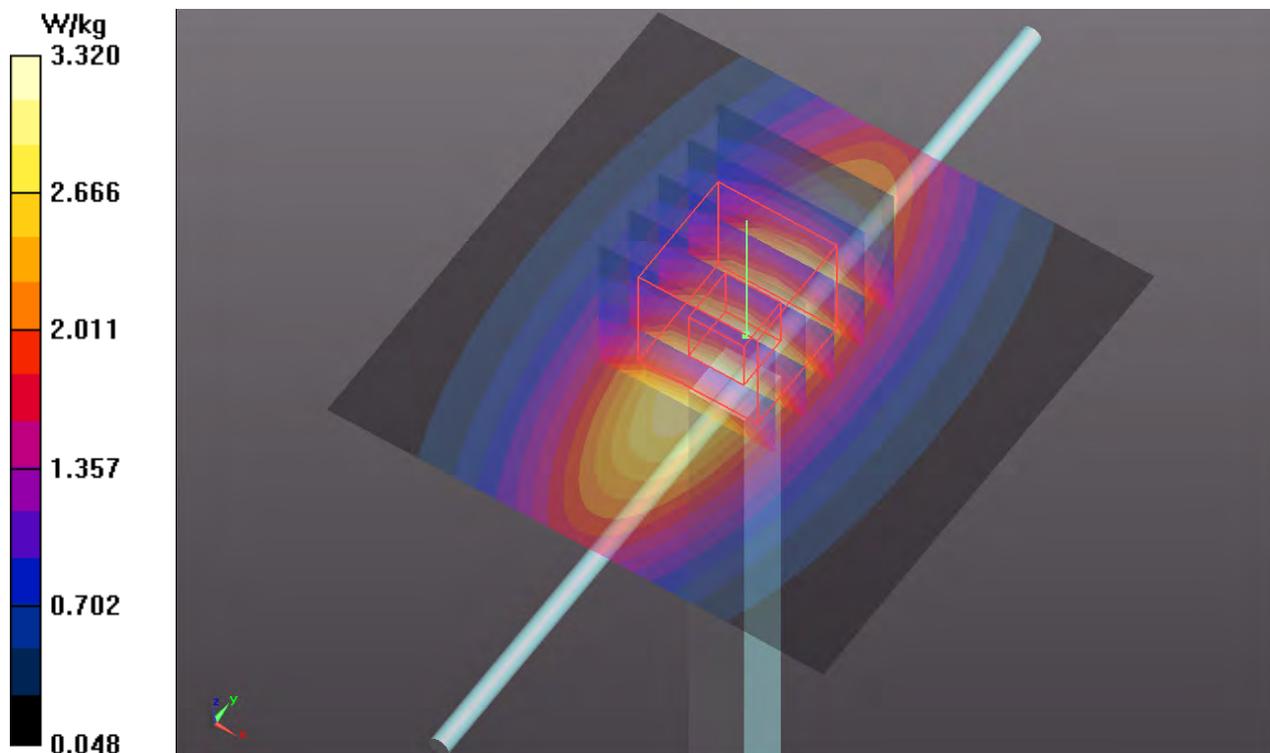
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.280 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.86 W/kg

SAR(1 g) = 2.56 W/kg; SAR(10 g) = 1.68 W/kg

Maximum value of SAR (measured) = 3.24 W/kg



System Check_B835_140116

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

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

Medium: B835_0116 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.992 \text{ S/m}$; $\epsilon_r = 55.471$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $21.2 \text{ }^\circ\text{C}$; Liquid Temperature : $20.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.14, 10.14, 10.14); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 3.33 W/kg

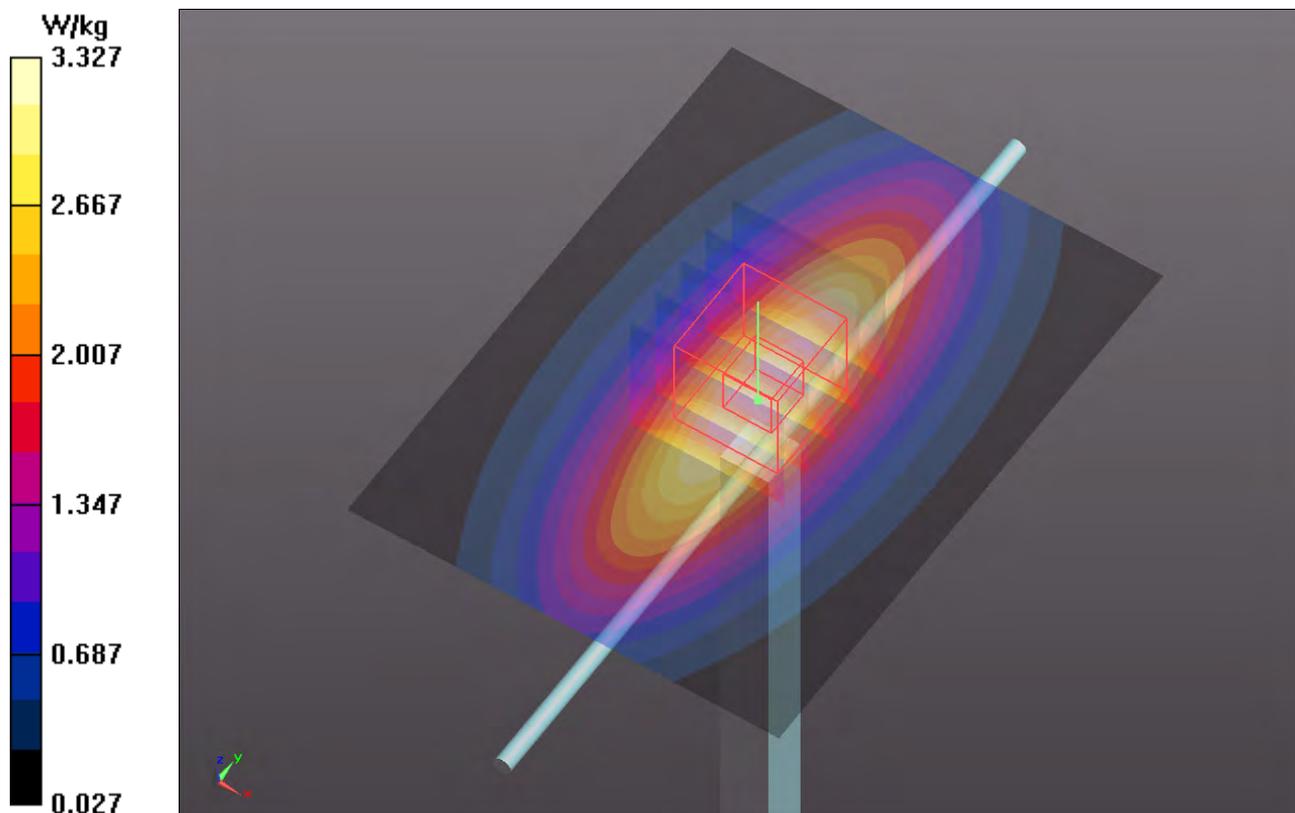
Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.148 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.89 W/kg

SAR(1 g) = 2.61 W/kg ; SAR(10 g) = 1.74 W/kg

Maximum value of SAR (measured) = 3.33 W/kg



System Check_B1750_140115

DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

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

Medium: B1750_0115 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 52.082$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.1, 8.1, 8.1); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.1 W/kg

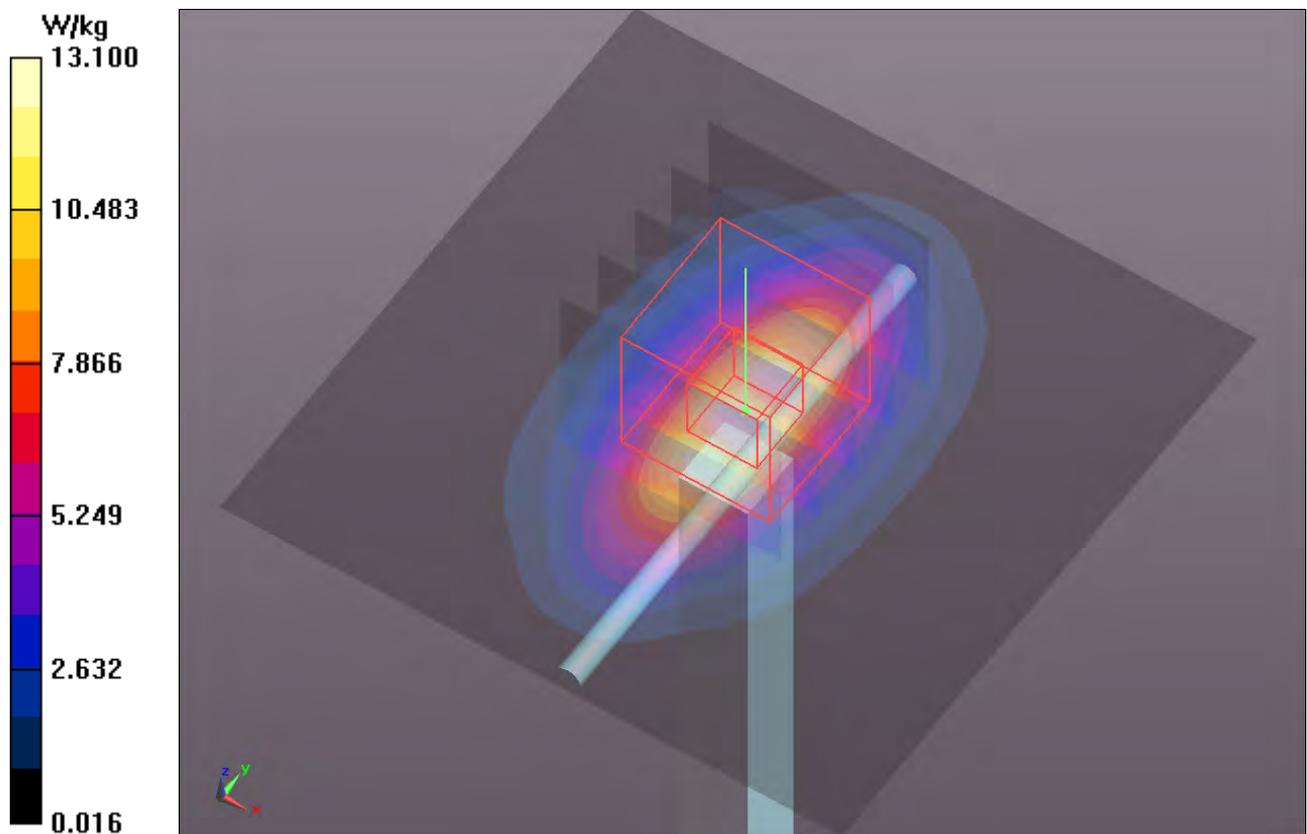
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.471 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.31 W/kg; SAR(10 g) = 5.02 W/kg

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



System Check_B1900_140103

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

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

Medium: B1900_0103 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 53.199$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.5 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.5 W/kg

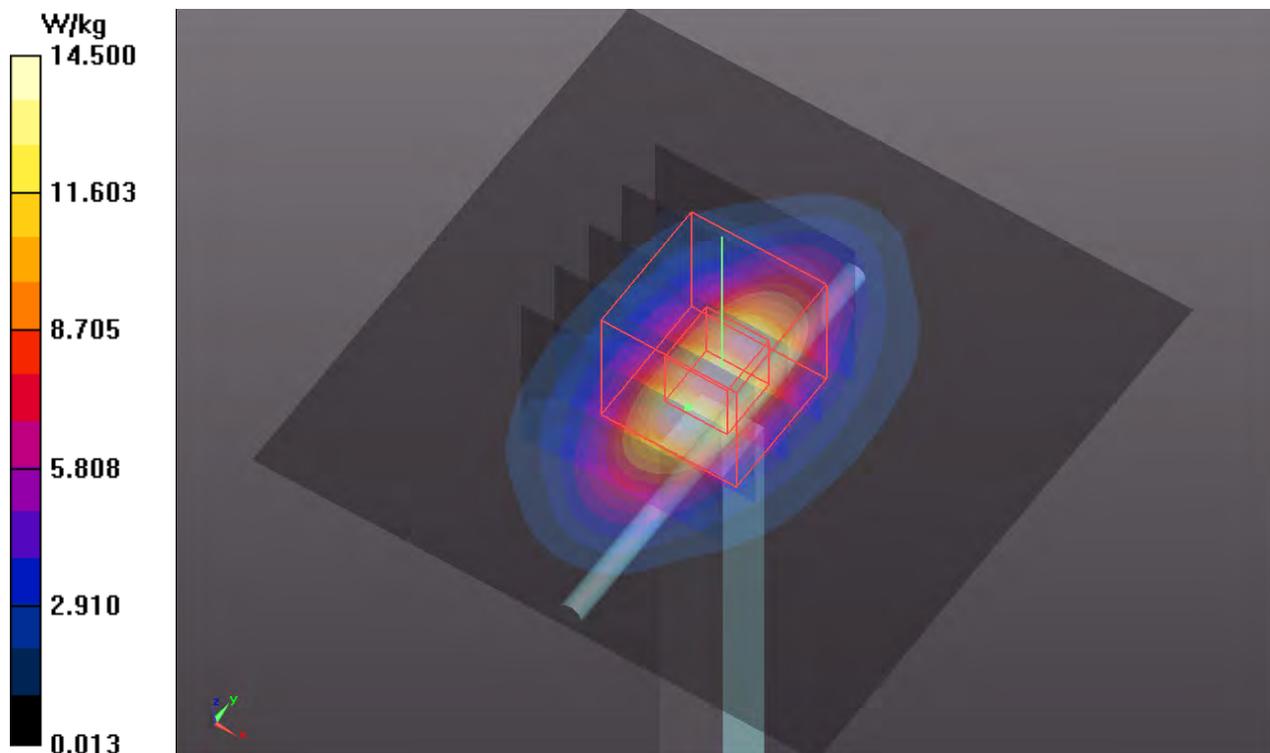
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 98.005 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.87 W/kg; SAR(10 g) = 5.12 W/kg

Maximum value of SAR (measured) = 14.0 W/kg



System Check_B1900_140106

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

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

Medium: B1900_0106 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.552$ S/m; $\epsilon_r = 51.953$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(7.23, 7.23, 7.23); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.7 W/kg

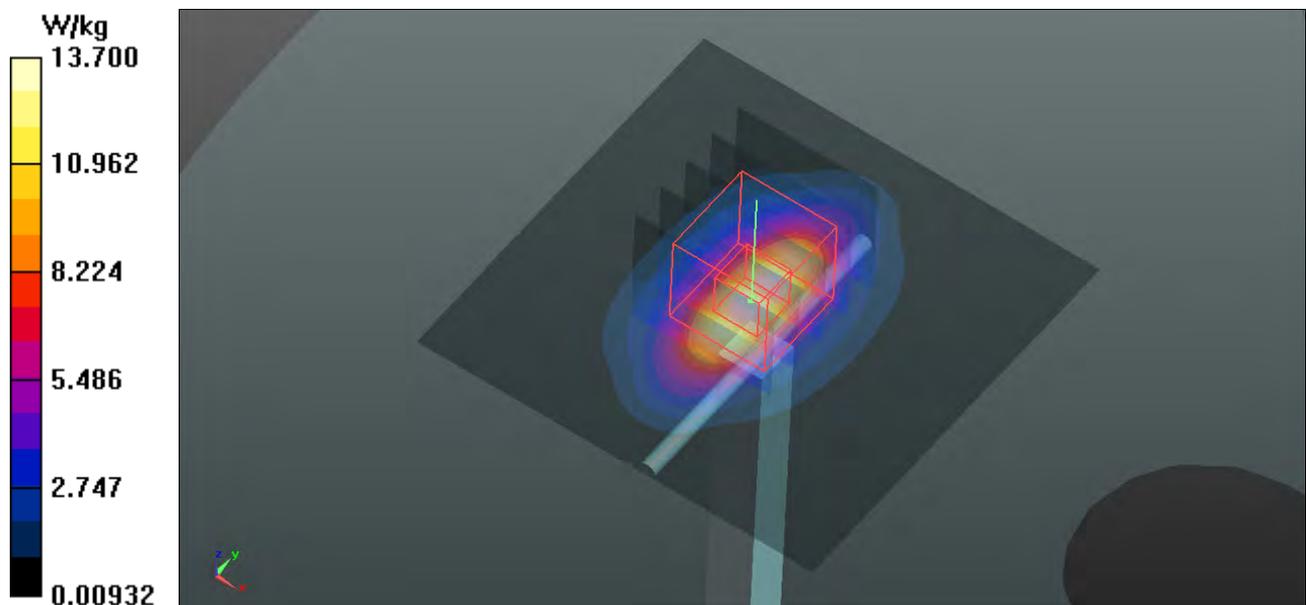
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.888 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.58 W/kg; SAR(10 g) = 4.97 W/kg

Maximum value of SAR (measured) = 13.7 W/kg



System Check_B1900_140106

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

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

Medium: B1900_0106 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.56$ S/m; $\epsilon_r = 53.444$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.8 W/kg

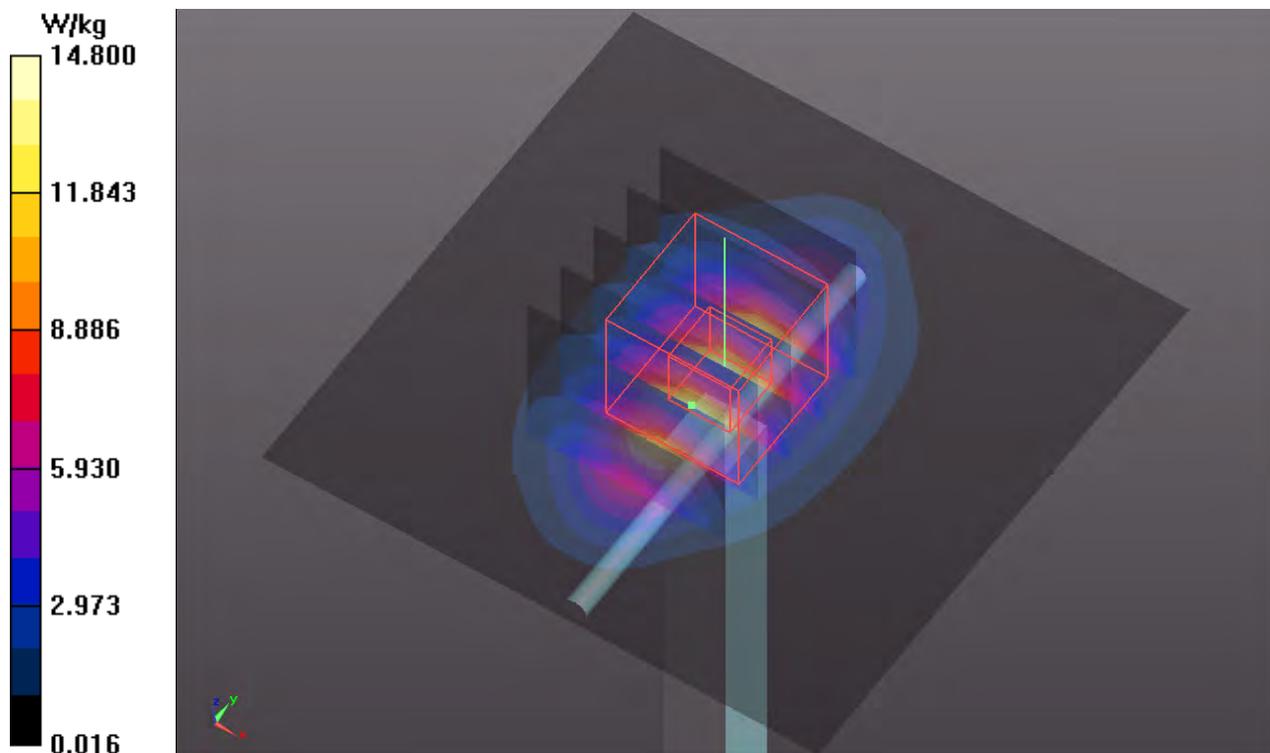
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 97.932 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 10 W/kg; SAR(10 g) = 5.21 W/kg

Maximum value of SAR (measured) = 14.2 W/kg



System Check_B1900_140115

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

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

Medium: B1900_0115 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 53.199$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.6 W/kg

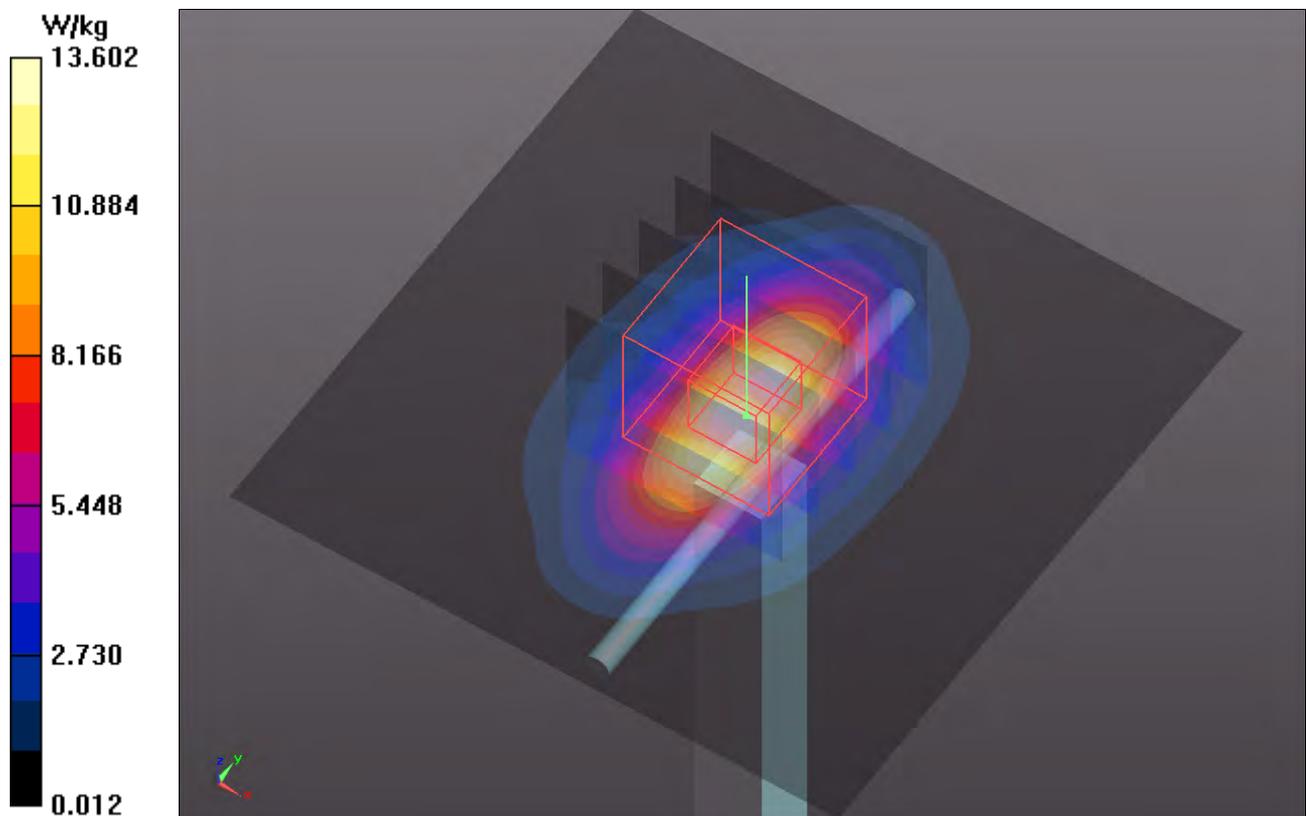
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.691 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 9.51 W/kg; SAR(10 g) = 4.93 W/kg

Maximum value of SAR (measured) = 13.6 W/kg



System Check_B2450_140103

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

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

Medium: B2450_0103 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 51.198$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.09, 7.09, 7.09); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.4 W/kg

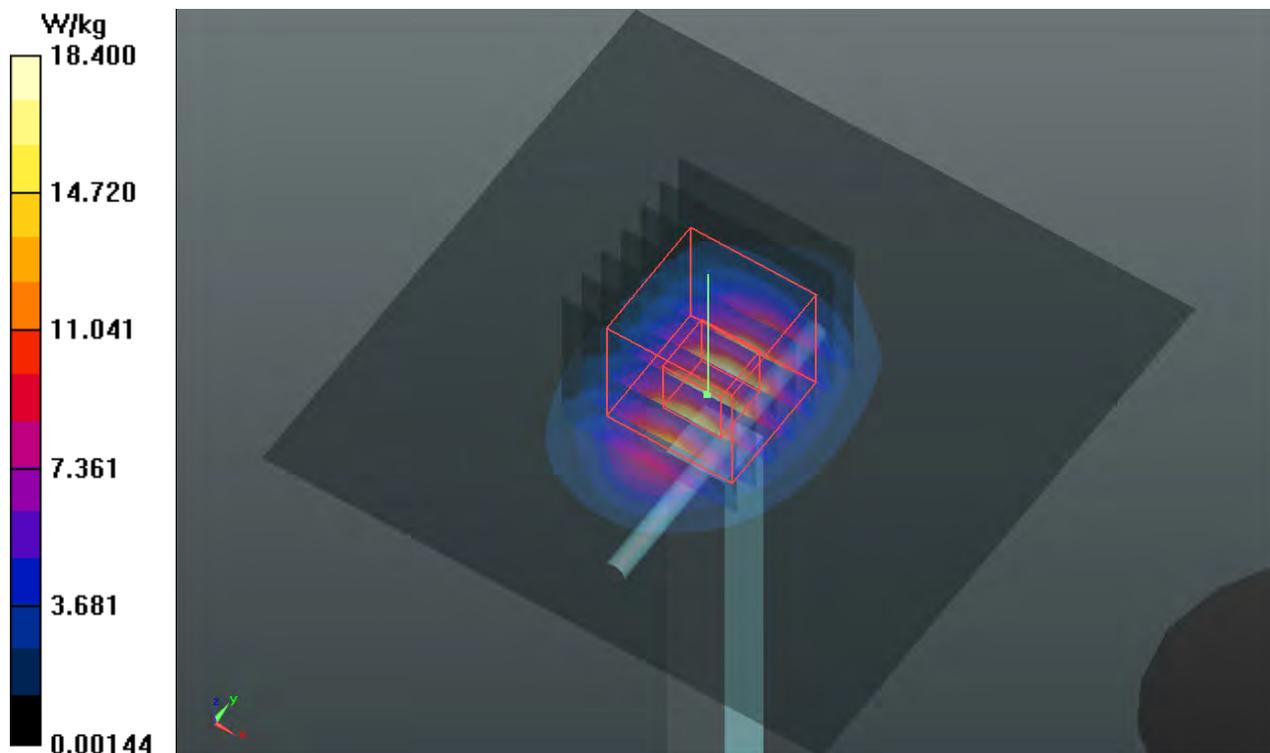
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.062 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 24.8 W/kg

SAR(1 g) = 11.8 W/kg; SAR(10 g) = 5.47 W/kg

Maximum value of SAR (measured) = 18.2 W/kg



System Check_B2450_140115

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

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

Medium: B2450_0115 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.976$ S/m; $\epsilon_r = 51.413$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.8°C; Liquid Temperature : 20.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.08, 8.08, 8.08); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2013/03/19
- Phantom: ELI v4.0_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 19.4 W/kg

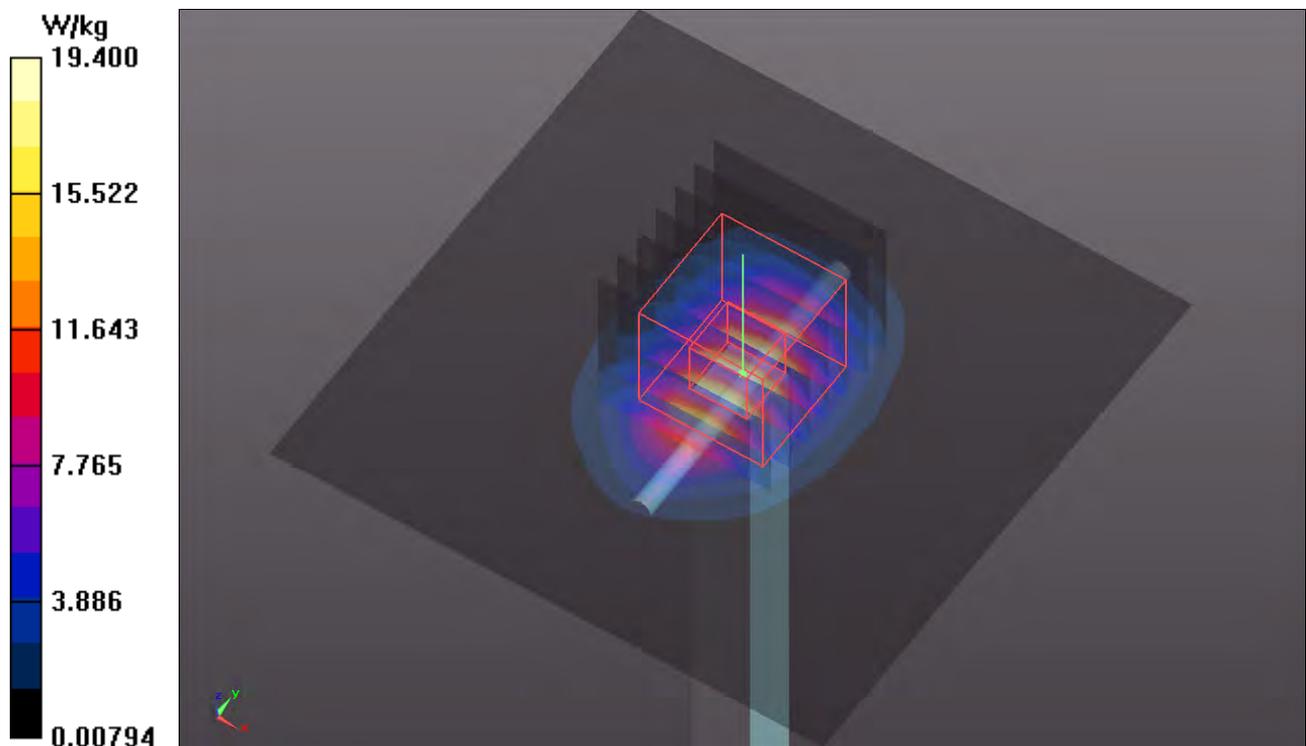
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.2 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.72 W/kg

Maximum value of SAR (measured) = 19.6 W/kg



System Check_B2600_140103

DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

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

Medium: B2600_0103 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.185$ S/m; $\epsilon_r = 52.038$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.91, 6.91, 6.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

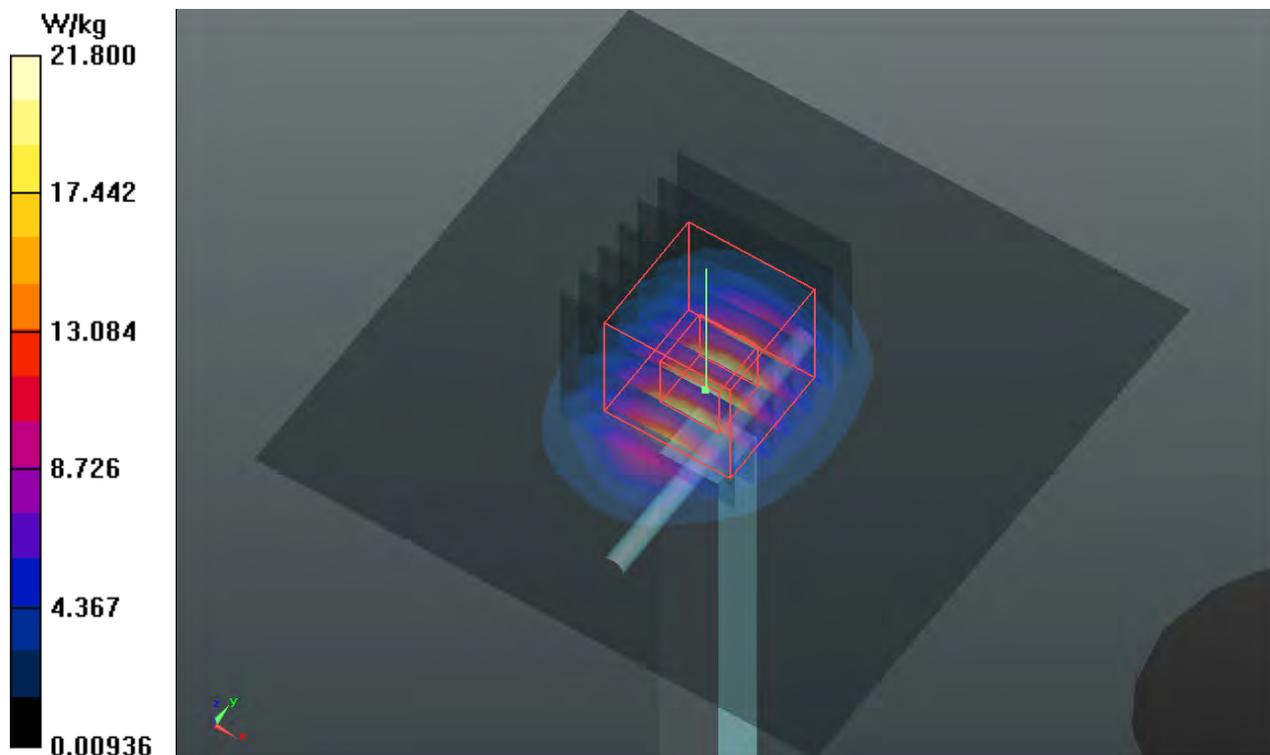
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.482 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.7 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.05 W/kg

Maximum value of SAR (measured) = 21.4 W/kg



System Check_B2600_140104

DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

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

Medium: B2600_0104 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.199$ S/m; $\epsilon_r = 52.35$; $\rho = 1000$ kg/m³

Ambient Temperature : 20.9 °C; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.91, 6.91, 6.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.2 W/kg

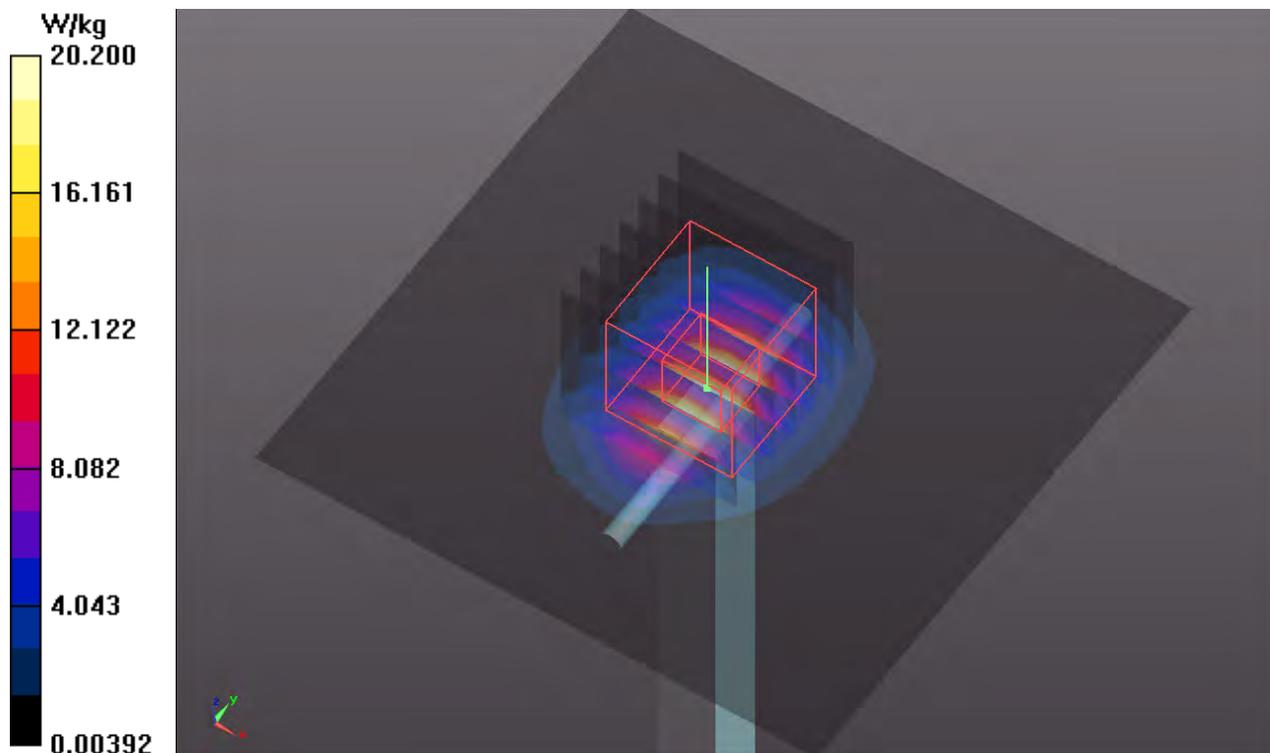
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.452 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.4 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.69 W/kg

Maximum value of SAR (measured) = 20.4 W/kg



System Check_B5200_140116

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: B5G_0116 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.194$ S/m; $\epsilon_r = 50.928$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

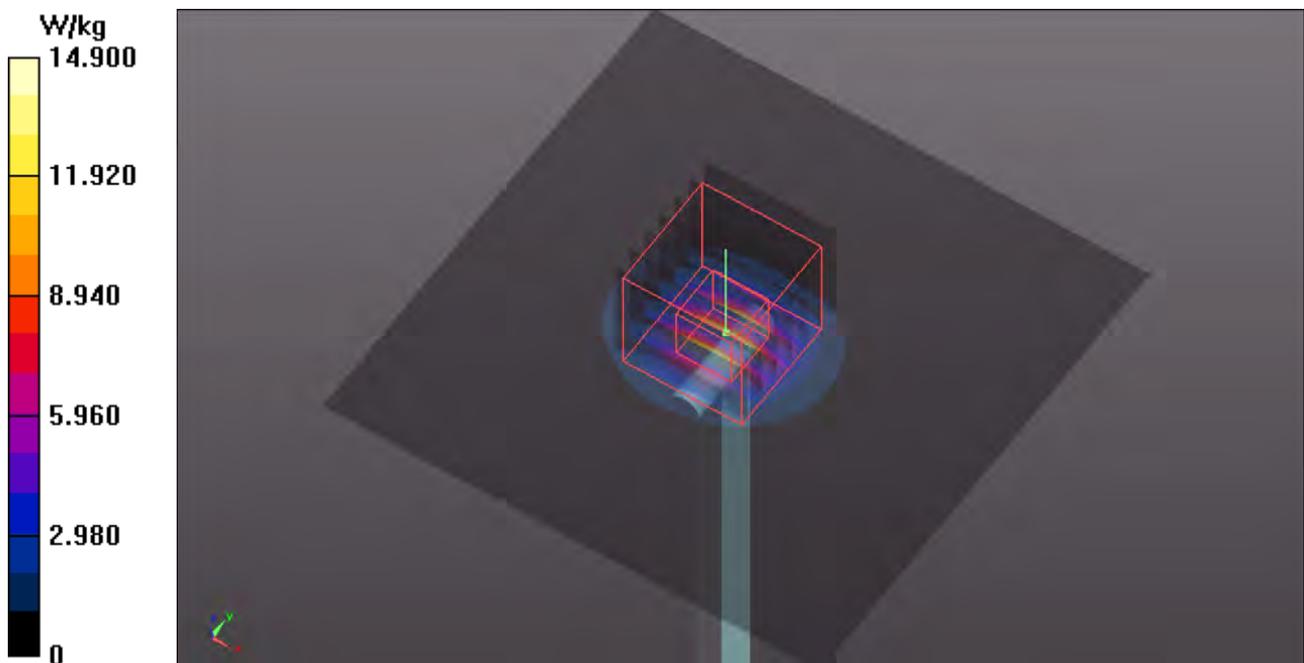
Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 14.9 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 55.799 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 30.5 W/kg

SAR(1 g) = 7.24 W/kg; SAR(10 g) = 2.04 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



System Check_B5200_140122

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: B5G_0122 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.321$ S/m; $\epsilon_r = 47.346$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C ; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4.51, 4.51, 4.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

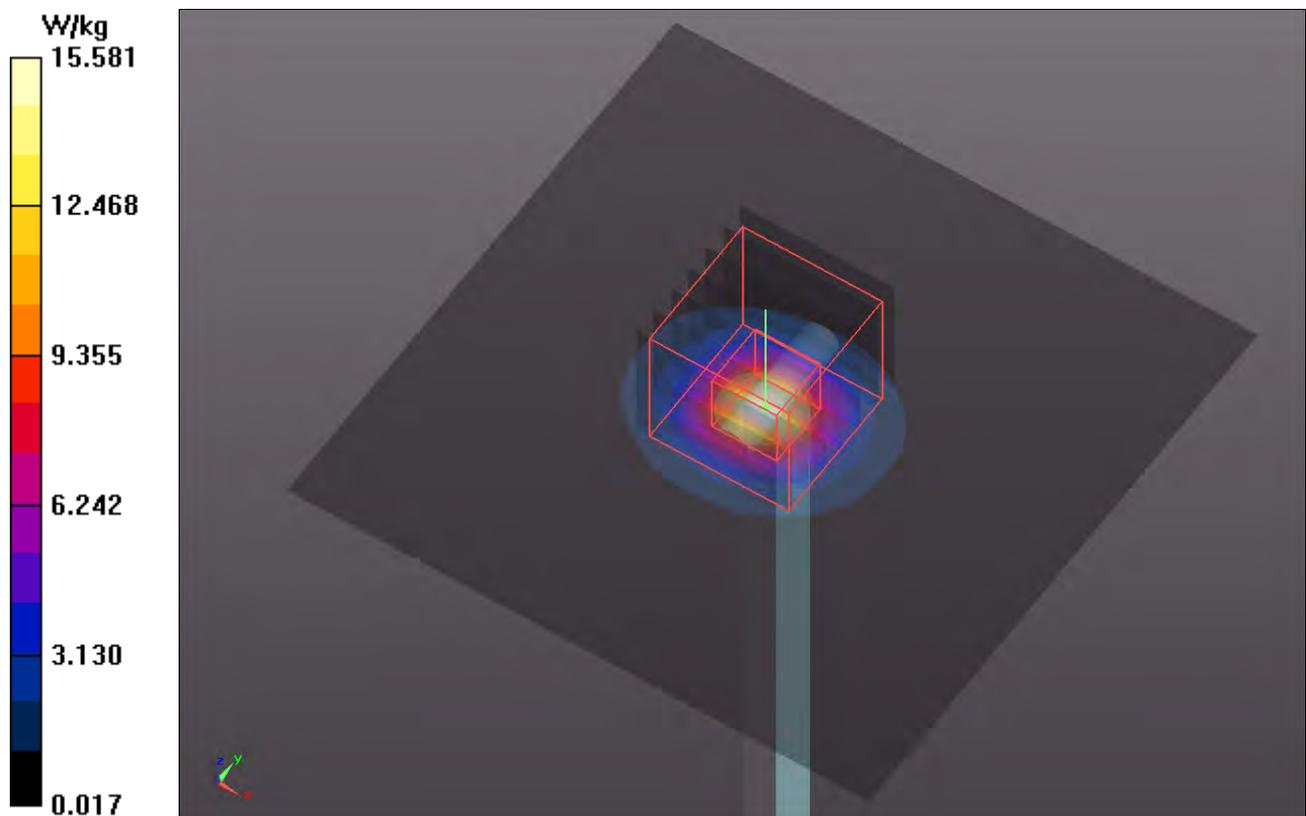
Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 15.6 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 58.607 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 28.7 W/kg

SAR(1 g) = 7.34 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 15.1 W/kg



System Check_B5300_140116

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: B5G_0116 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.356$ S/m; $\epsilon_r = 50.83$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.01, 4.01, 4.01); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

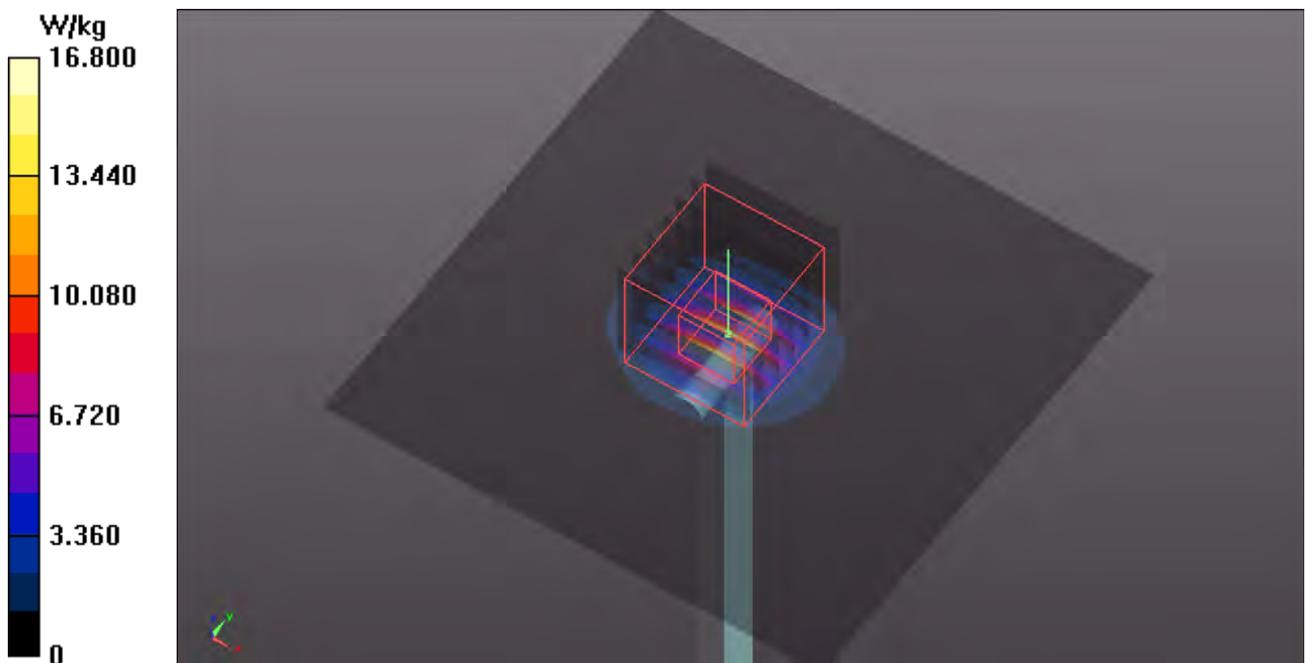
Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 16.8 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 59.067 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 33.9 W/kg

SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 16.7 W/kg



System Check_B5600_140116

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B5G_0116 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.875$ S/m; $\epsilon_r = 50.255$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(3.69, 3.69, 3.69); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

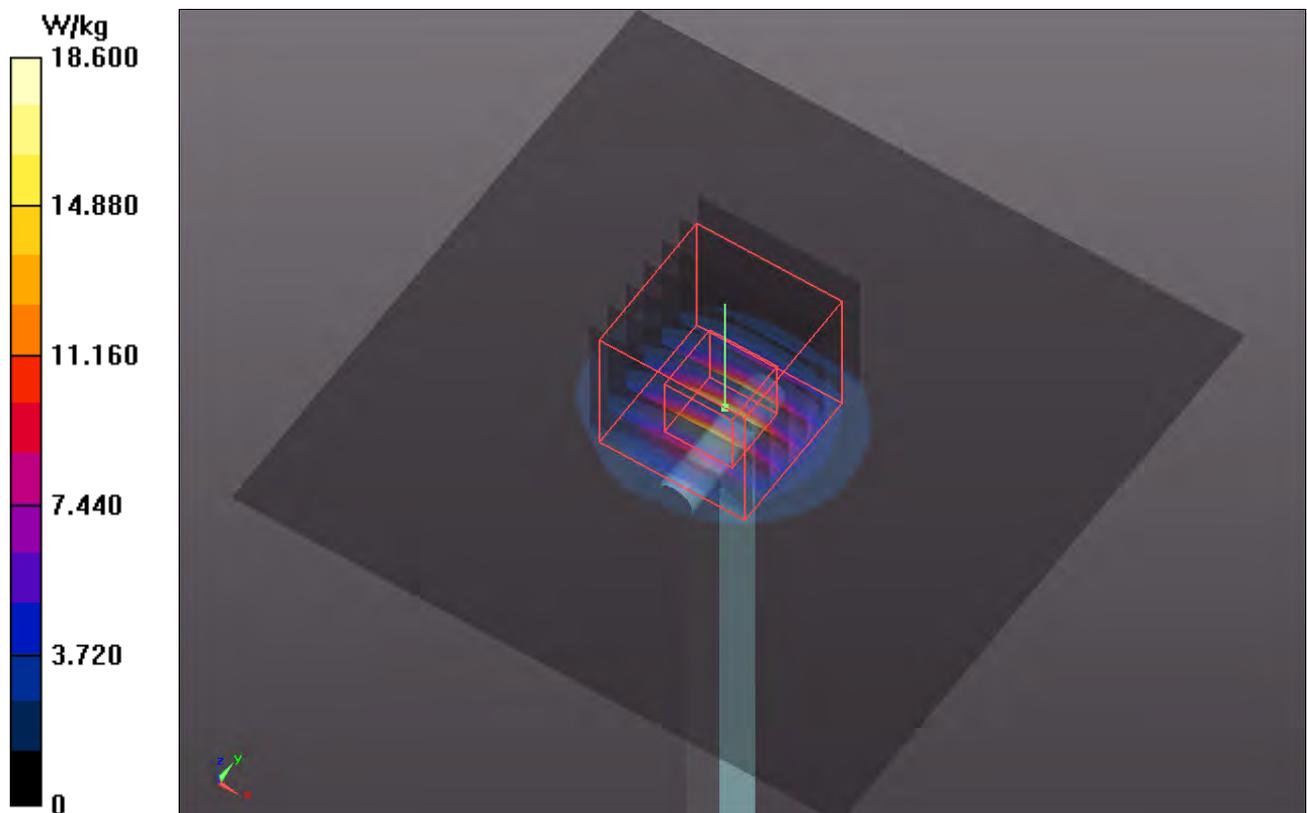
Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.6 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 60.912 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 34.8 W/kg

SAR(1 g) = 8.51 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 17.8 W/kg



System Check_B5600_140122

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B5G_0122 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.889$ S/m; $\epsilon_r = 46.629$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4, 4, 4); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

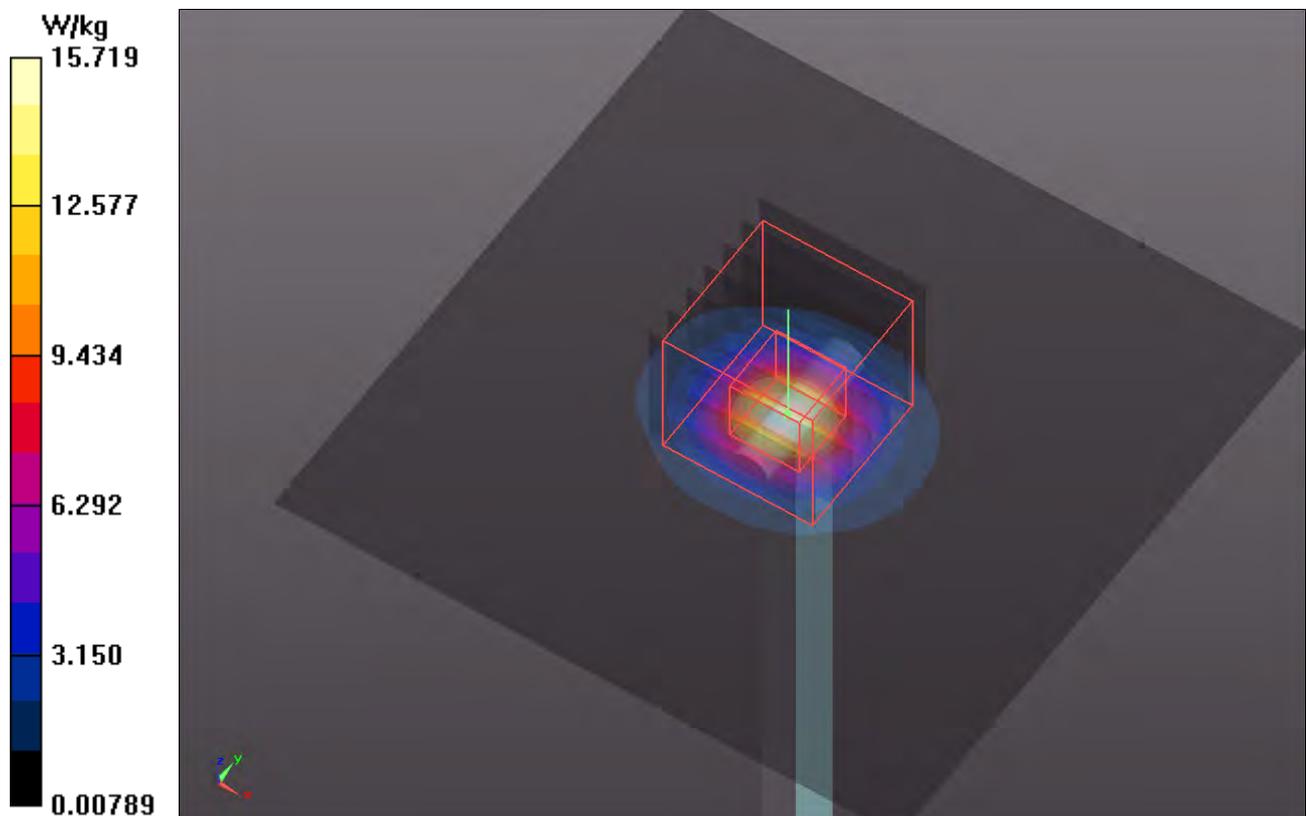
Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 15.7 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 56.036 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 7.4 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 15.7 W/kg



System Check_B5800_140116

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: B5G_0116 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.178$ S/m; $\epsilon_r = 49.756$; $\rho = 1000$ kg/m³

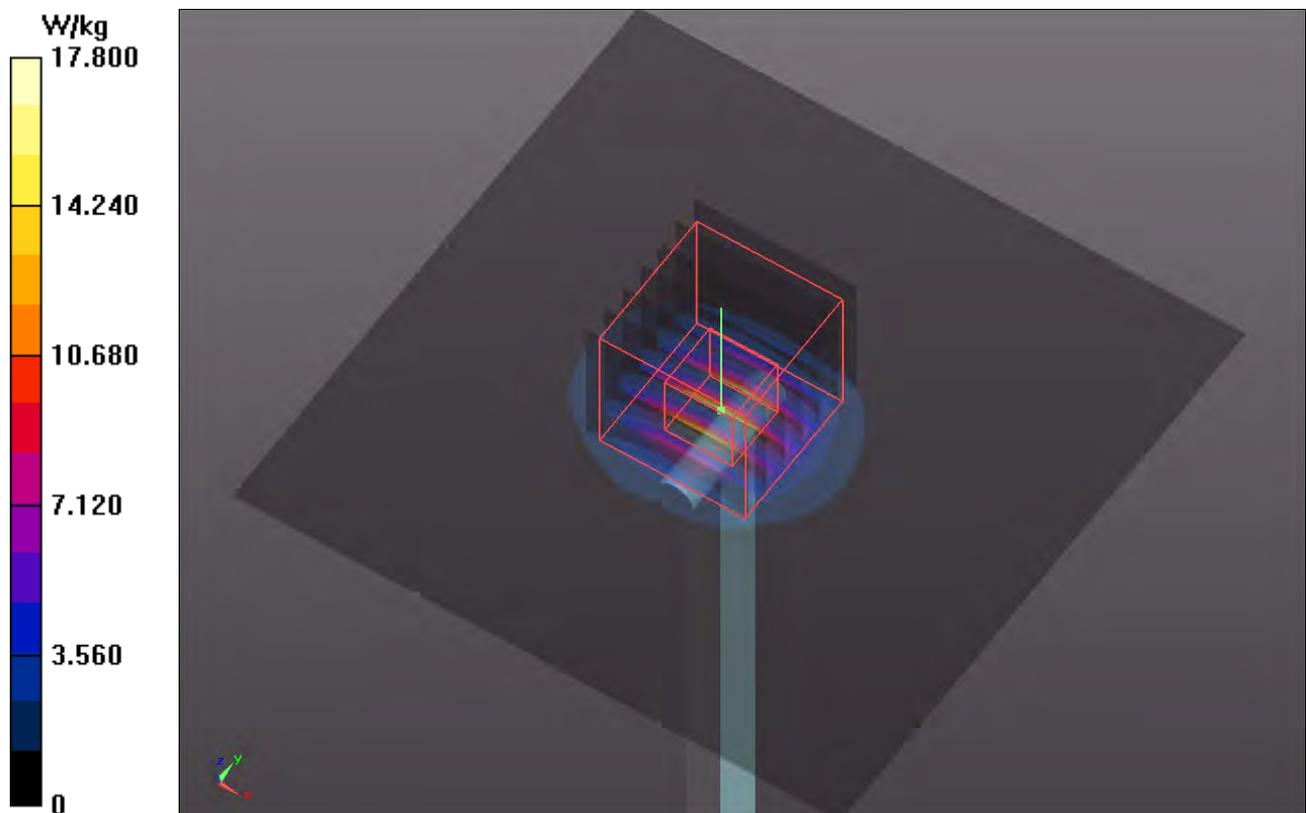
Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(3.93, 3.93, 3.93); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 17.8 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
 Reference Value = 56.732 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 33.9 W/kg
SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.24 W/kg
 Maximum value of SAR (measured) = 17.1 W/kg



System Check_B5800_140122

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1018

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: B5G_0122 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.176$ S/m; $\epsilon_r = 46.237$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4.21, 4.21, 4.21); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

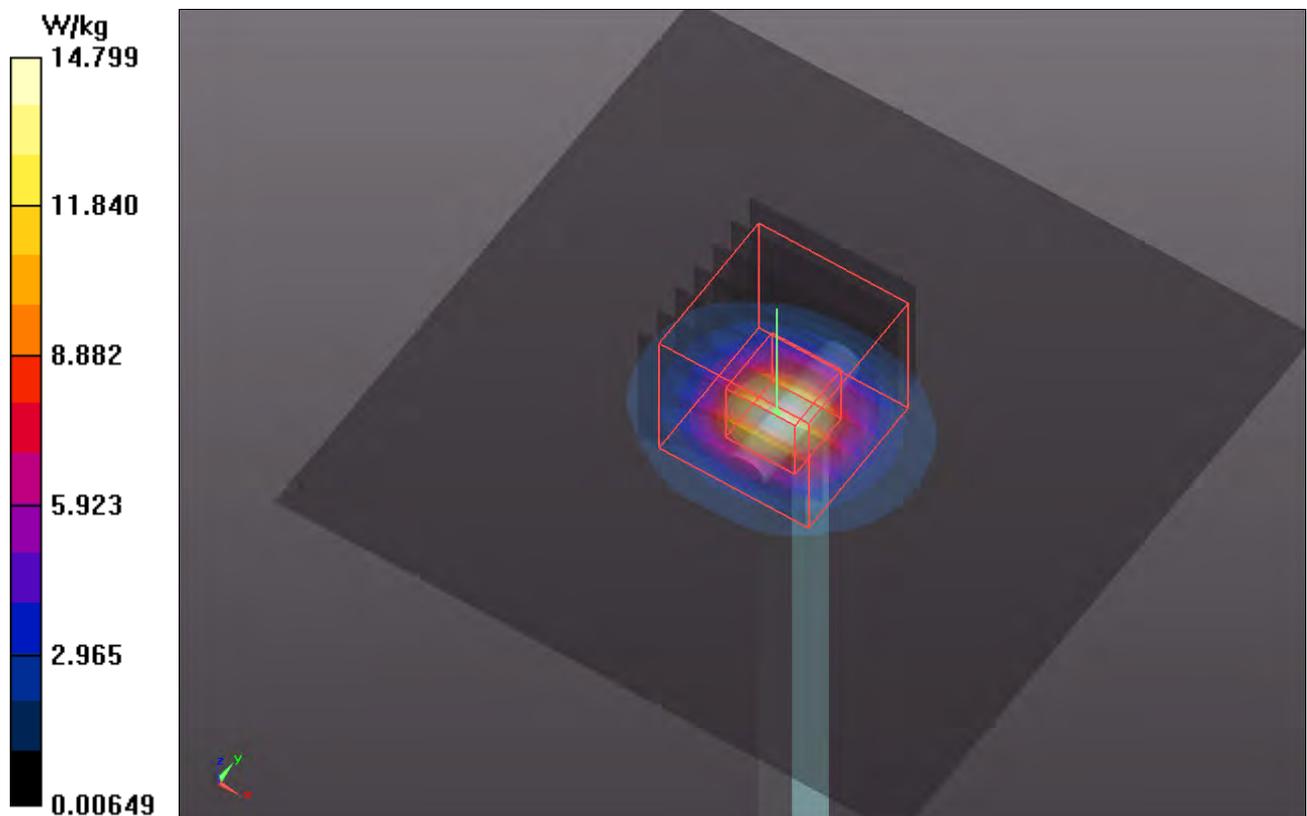
Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 14.8 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 53.775 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 6.96 W/kg; SAR(10 g) = 1.98 W/kg

Maximum value of SAR (measured) = 14.7 W/kg





Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 GSM850_GPRS10_Right Cheek_Ch251_Handset

DUT: 131213C05

Communication System: GPRS10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: H835_0106 Medium parameters used: $f = 849$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 42.727$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.3 °C ; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.338 W/kg

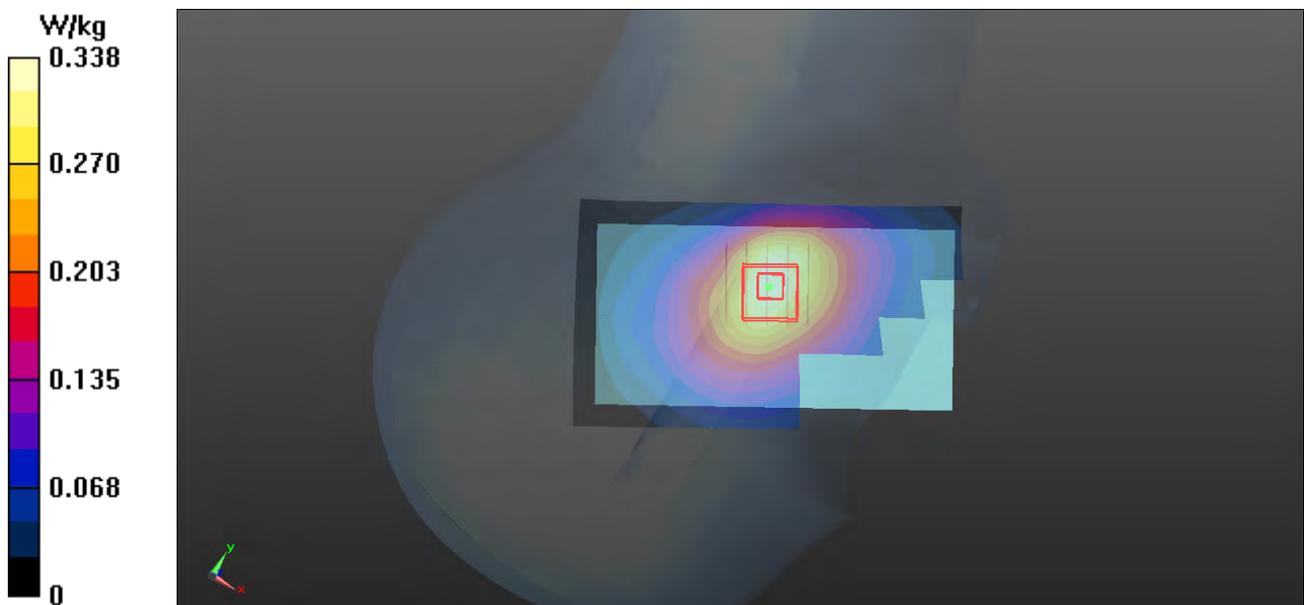
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.463 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 0.329 W/kg



P02 GSM1900_GPRS10_Left Cheek_Ch810_Handset_EUT2

DUT: 131213C05

Communication System: GPRS10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: H1900_0218 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 39.565$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.8 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.2, 8.2, 8.2); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.755 W/kg

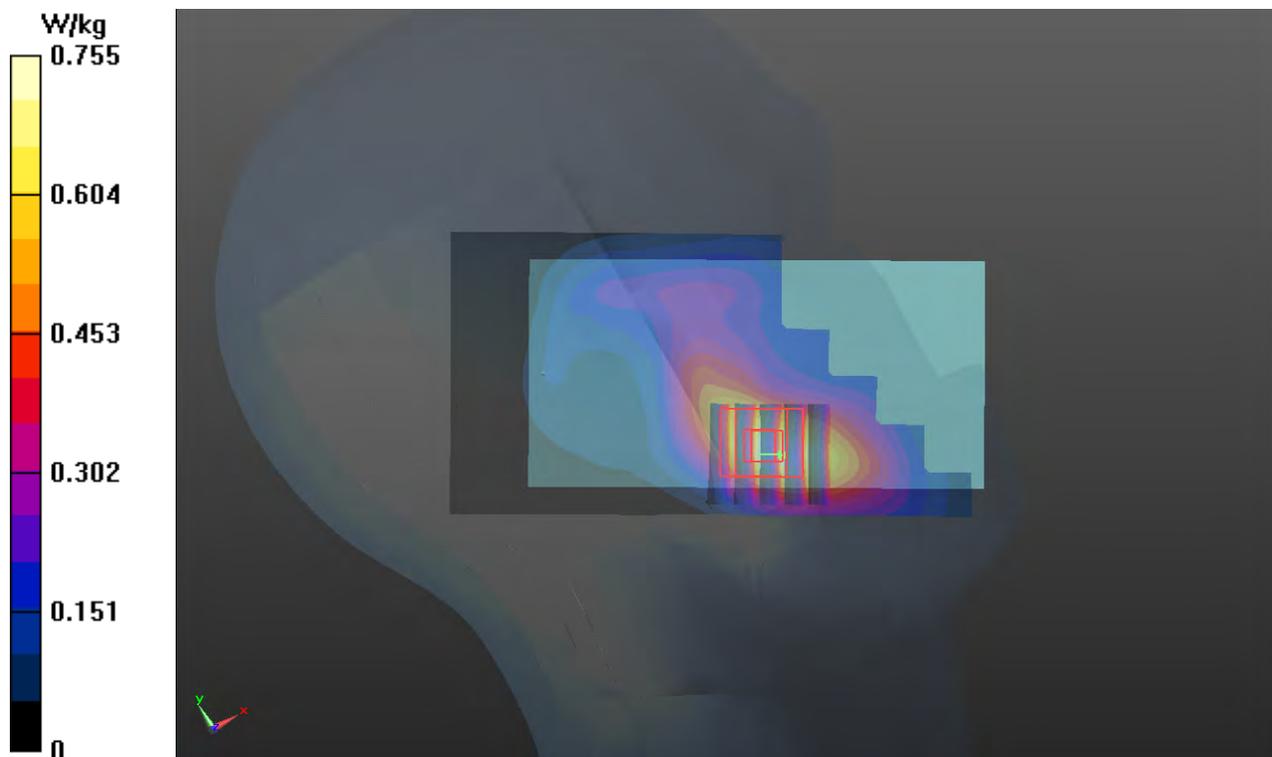
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.070 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.881 W/kg

SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.365 W/kg

Maximum value of SAR (measured) = 0.731 W/kg



P03 WCDMA II_RMC12.2k_Left Cheek_Ch9538_Handset

DUT: 131213C05

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

Medium: H1900_0106 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.163$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.5 °C; Liquid Temperature : 20.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(7.67, 7.67, 7.67); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.685 W/kg

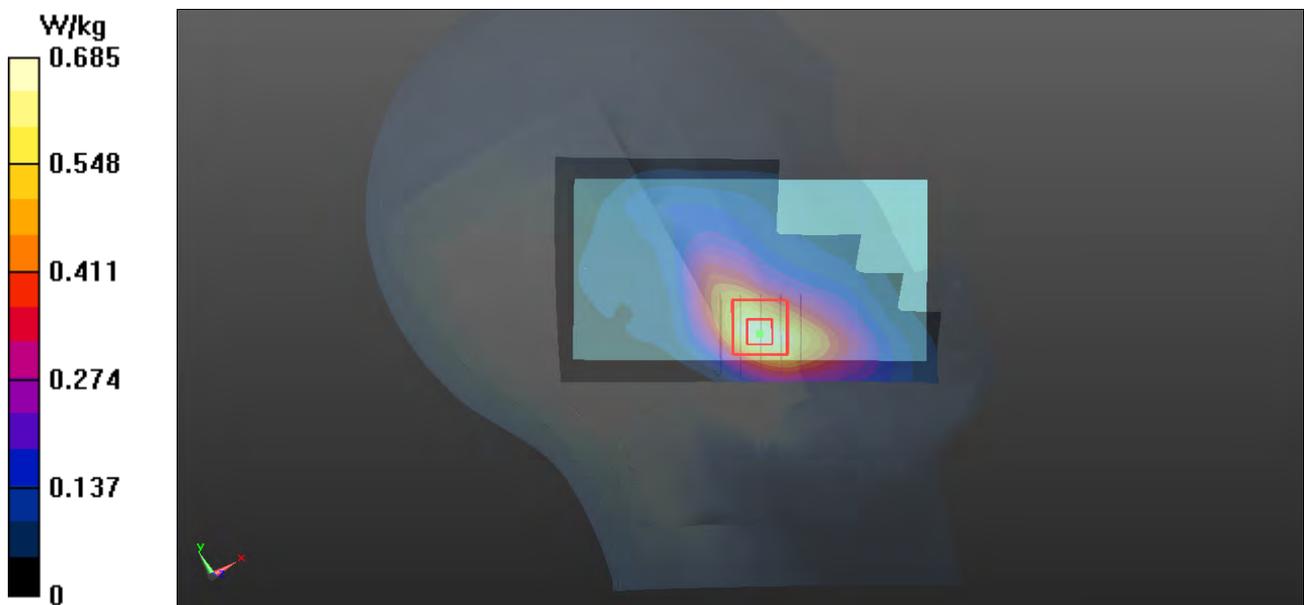
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.736 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.785 W/kg

SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.321 W/kg

Maximum value of SAR (measured) = 0.659 W/kg



P04 WCDMA V_RMC12.2k_Right Cheek_Ch4233_Handset

DUT: 131213C05

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

Medium: H835_0106 Medium parameters used: $f = 847$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 42.752$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.197 W/kg

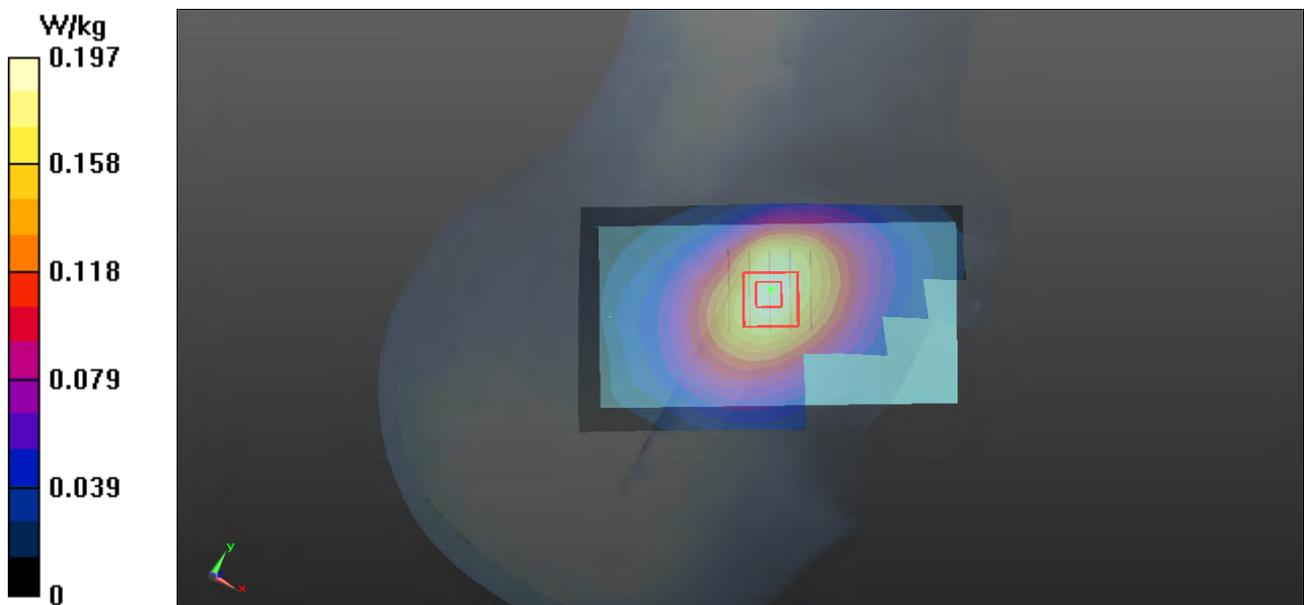
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.605 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.196 W/kg



P05 LTE 2_QPSK_10M_Left Cheek_Ch19150_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE 2; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: H1900_0115 Medium parameters used: $f = 1905$ MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 40.308$; $\rho =$

1000 kg/m³

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.2, 8.2, 8.2); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x111x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.751 W/kg

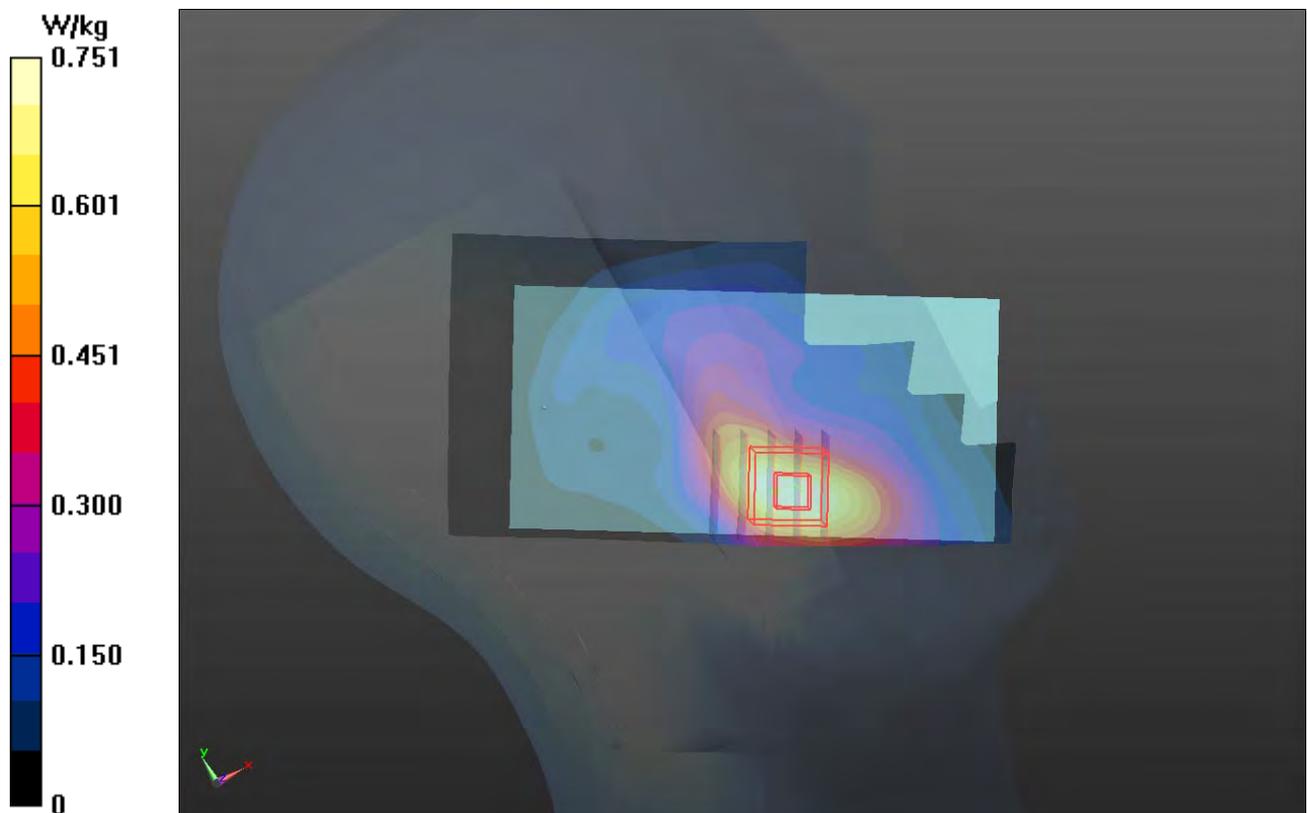
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.983 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.892 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.355 W/kg

Maximum value of SAR (measured) = 0.730 W/kg



P06 LTE 4_QPSK_10M_Left Cheek_Ch20350_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE 4; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: H1750_0115 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 39.714$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.49, 8.49, 8.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.675 W/kg

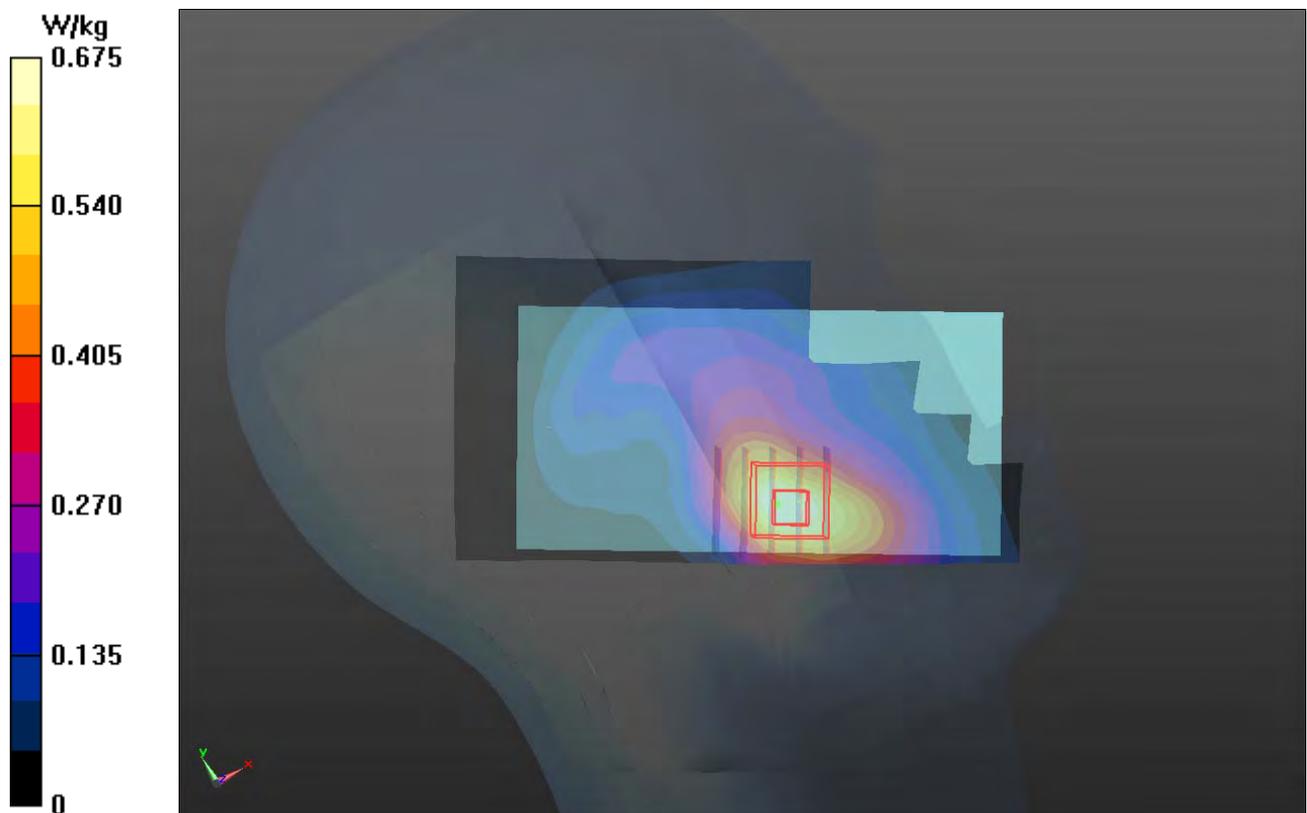
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.497 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.768 W/kg

SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.339 W/kg

Maximum value of SAR (measured) = 0.635 W/kg



P07 LTE 5_QPSK_10M_Right Cheek_Ch20450_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: H835_0106 Medium parameters used: $f = 829$ MHz; $\sigma = 0.882$ S/m; $\epsilon_r = 42.964$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.201 W/kg

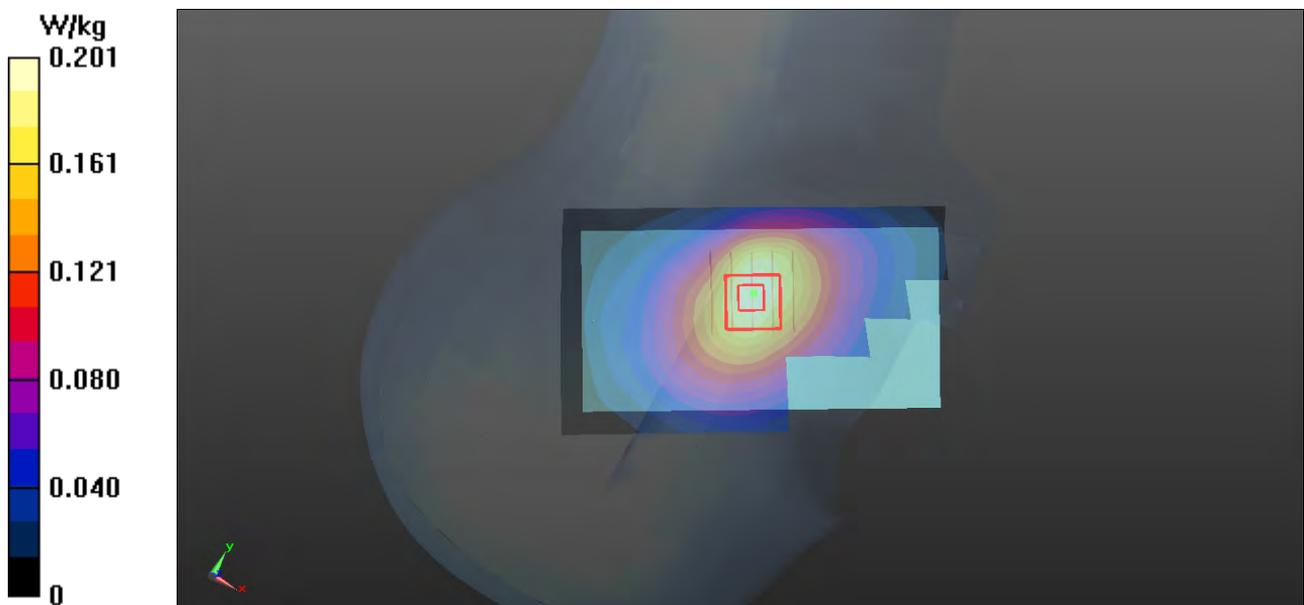
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.707 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.218 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.199 W/kg



P08 LTE 7_QPSK_10M_Right Cheek_Ch20800_Handset_1RB_OS24**DUT: 131213C05**

Communication System: LTE; Frequency: 2505 MHz; Duty Cycle: 1:1

Medium: H2600_0103 Medium parameters used: $f = 2505$ MHz; $\sigma = 1.946$ S/m; $\epsilon_r = 37.948$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.85, 6.85, 6.85); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.148 W/kg

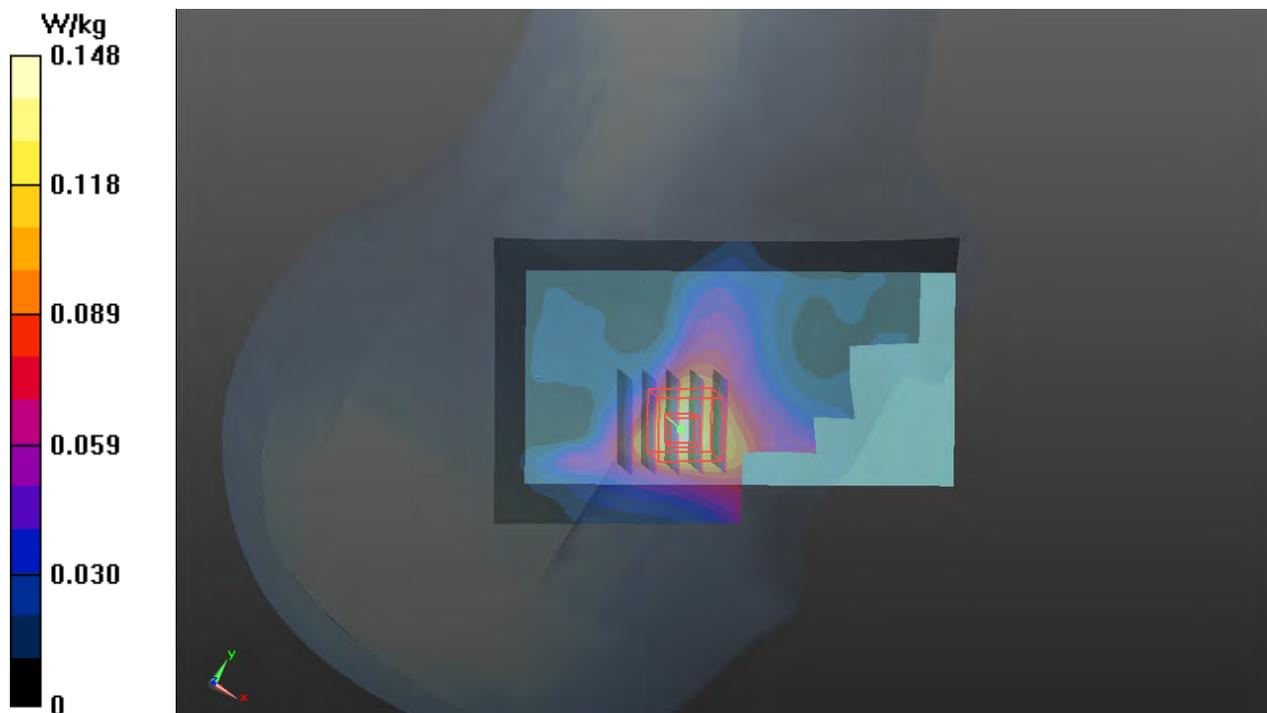
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.529 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.056 W/kg

Maximum value of SAR (measured) = 0.137 W/kg



P09 LTE 17_QPSK_10M_Right Cheek_Ch23780_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium: H750_0106 Medium parameters used: $f = 709$ MHz; $\sigma = 0.873$ S/m; $\epsilon_r = 41.028$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.3 °C ; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9.39, 9.39, 9.39); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.172 W/kg

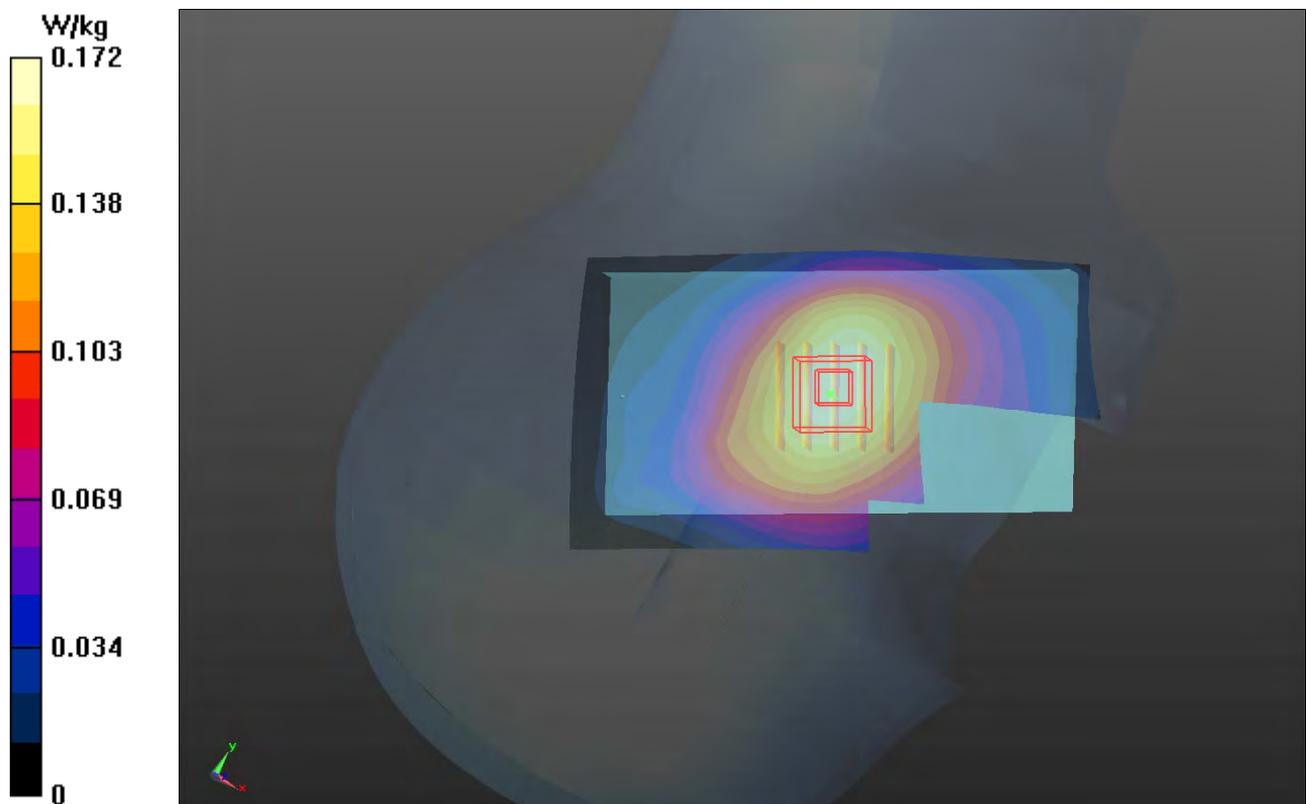
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.350 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.185 W/kg

SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.126 W/kg

Maximum value of SAR (measured) = 0.173 W/kg



P10 802.11b_Right Cheek_Ch1_Handset

DUT: 131213C05

Communication System: WLAN_2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1.02

Medium: H2450_0103 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.729$ S/m; $\epsilon_r = 40.353$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.7 °C; Liquid Temperature : 20.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.99, 6.99, 6.99); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.970 W/kg

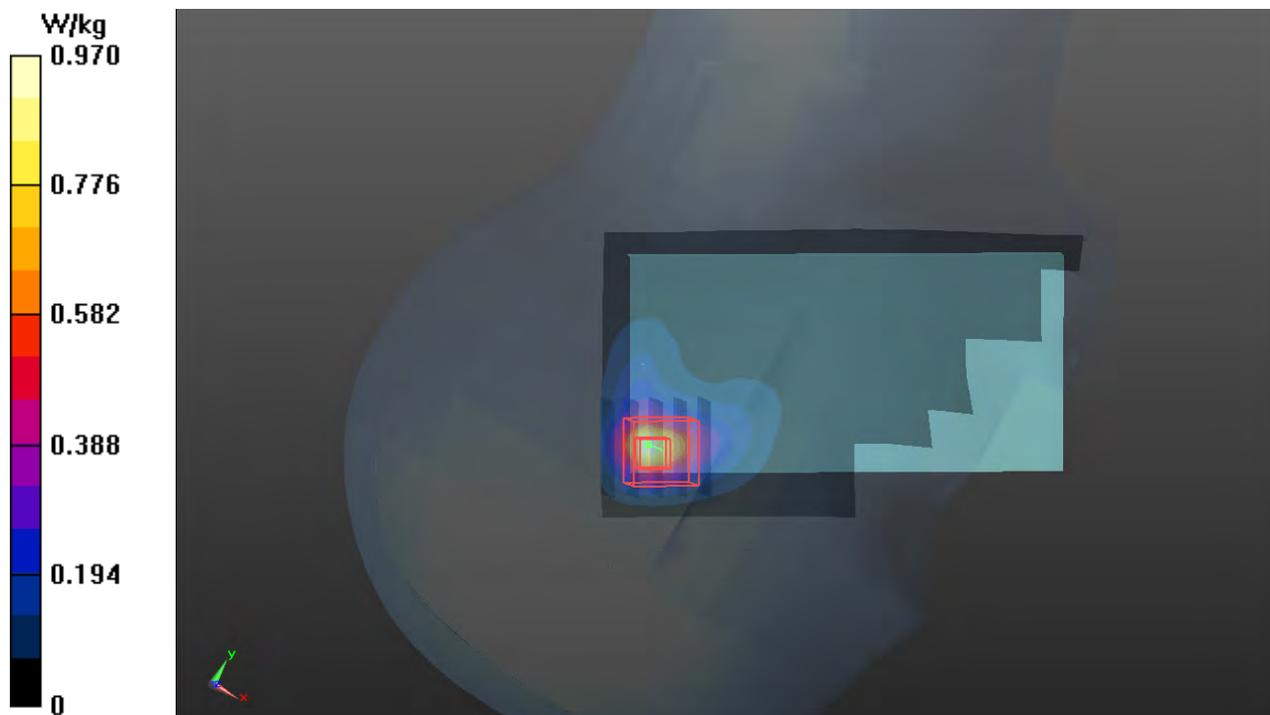
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.486 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.232 W/kg

Maximum value of SAR (measured) = 0.834 W/kg



P11 802.11a_Right Cheek_Ch48_Handset

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5240 MHz; Duty Cycle: 1:1.16

Medium: H5G_0117 Medium parameters used: $f = 5240$ MHz; $\sigma = 4.885$ S/m; $\epsilon_r = 35.172$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C ; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(5.33, 5.33, 5.33); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

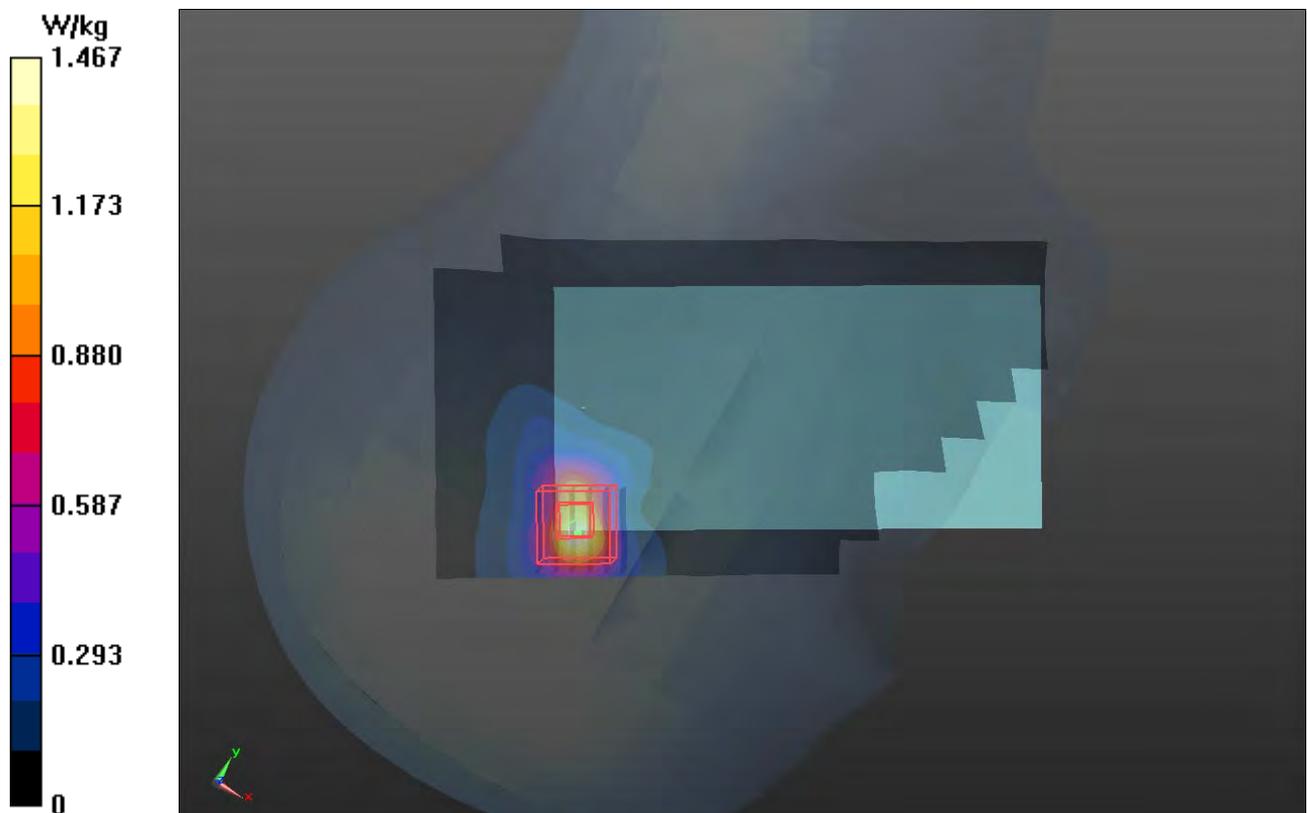
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 3.720 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 1.55 W/kg



P12 802.11a_Right Cheek_Ch52_Handset

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5260 MHz; Duty Cycle: 1:1.16

Medium: H5G_0117 Medium parameters used: $f = 5260$ MHz; $\sigma = 4.906$ S/m; $\epsilon_r = 35.137$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.69, 4.69, 4.69); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (91x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

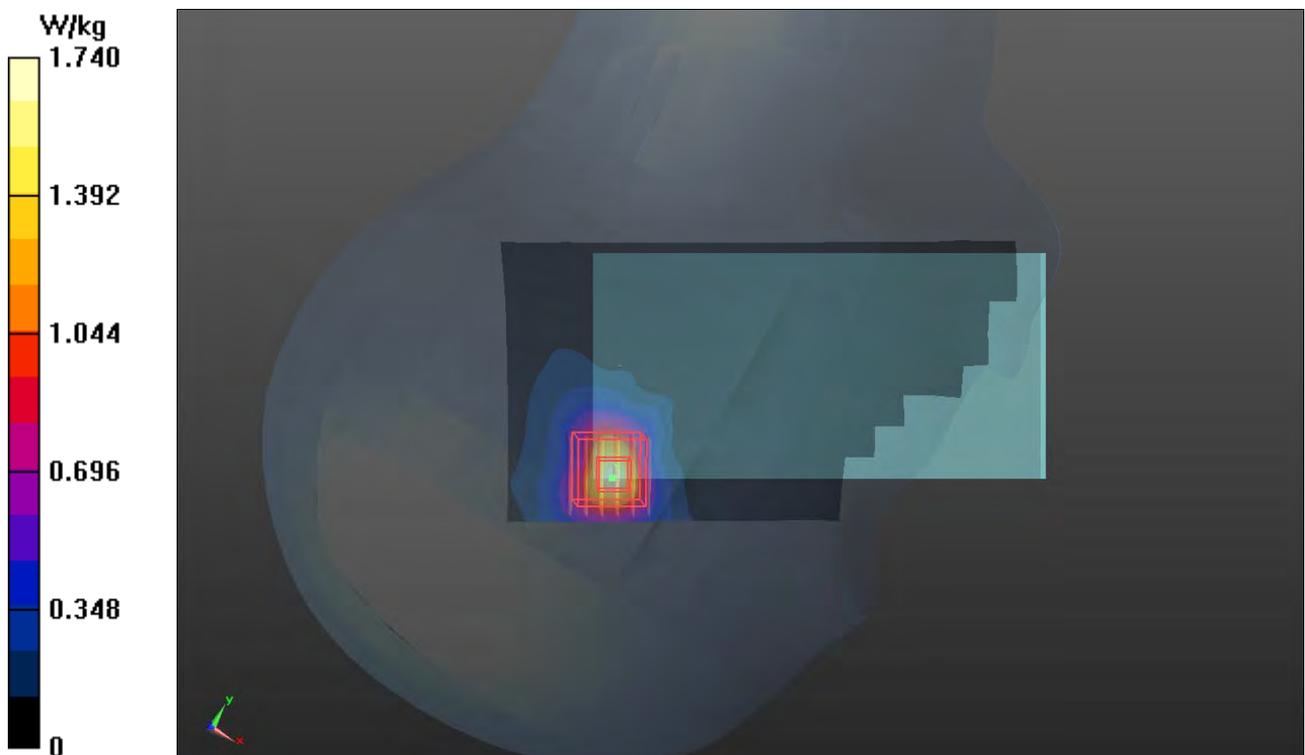
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.268 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.99 W/kg

SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.334 W/kg

Maximum value of SAR (measured) = 1.83 W/kg



P13 802.11a_Right Cheek_Ch140_Handset

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5700 MHz; Duty Cycle: 1:1.16

Medium: H5G_0117 Medium parameters used: $f = 5700$ MHz; $\sigma = 5.395$ S/m; $\epsilon_r = 34.356$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.34, 4.34, 4.34); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (91x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

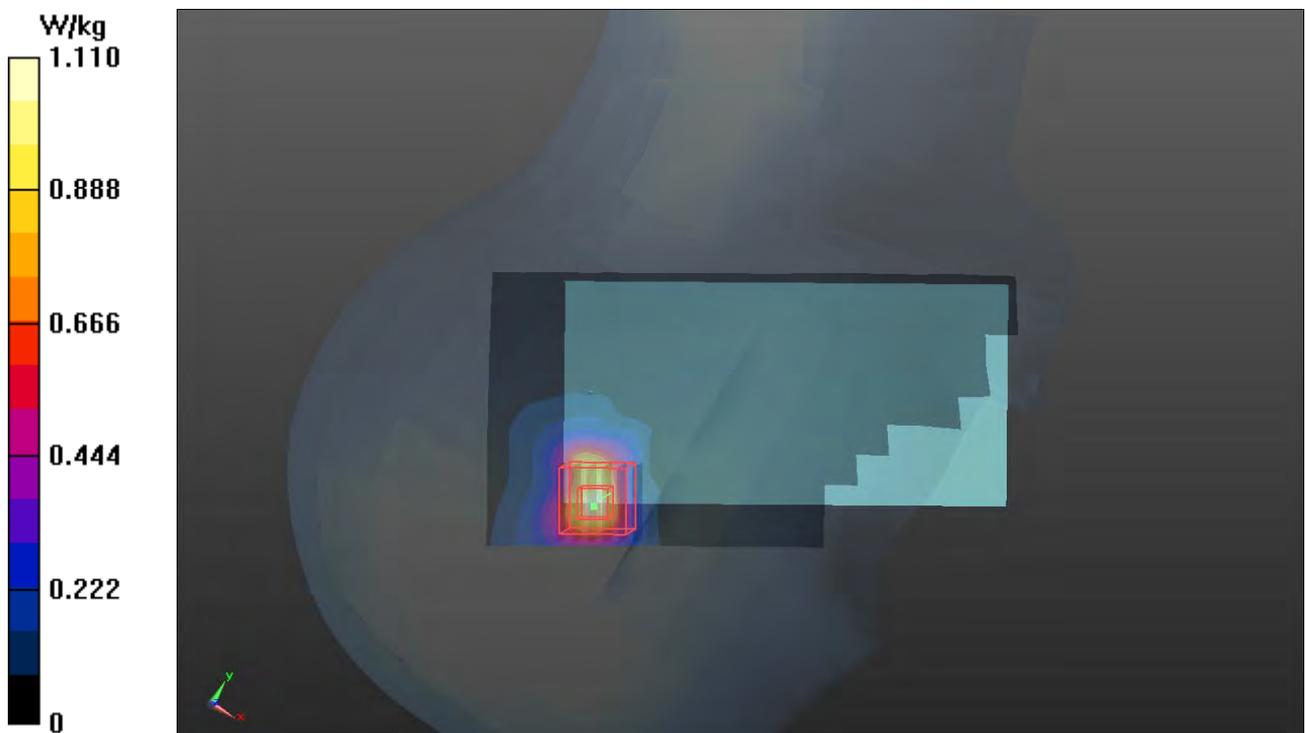
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.592 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.206 W/kg

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



P14 802.11a_Right Cheek_Ch161_Moblie

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5805 MHz; Duty Cycle: 1:1.16

Medium: H5G_0117 Medium parameters used: $f = 5805$ MHz; $\sigma = 5.432$ S/m; $\epsilon_r = 34.26$; $\rho = 1000$ kg/m³

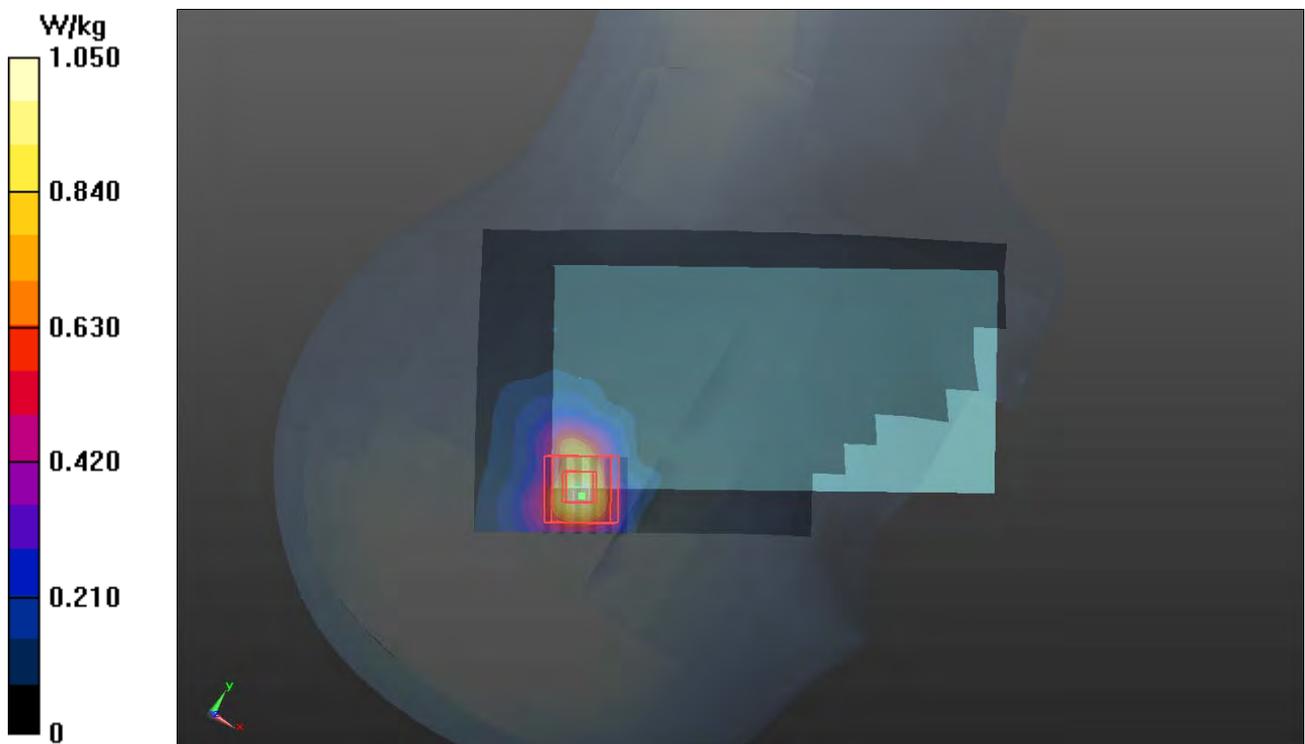
Ambient Temperature : 21.6 °C ; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.34, 4.34, 4.34); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 5.123 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.66 W/kg
SAR(1 g) = 0.608 W/kg; SAR(10 g) = 0.201 W/kg
Maximum value of SAR (measured) = 1.22 W/kg



P15 GSM850_GPRS10_Rear Face_1cm_Ch251_Handset

DUT: 131213C05

Communication System: GPRS10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: B835_0116 Medium parameters used: $f = 849$ MHz; $\sigma = 1.005$ S/m; $\epsilon_r = 55.256$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.14, 10.14, 10.14); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 25.009 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.358 W/kg

Maximum value of SAR (measured) = 0.844 W/kg

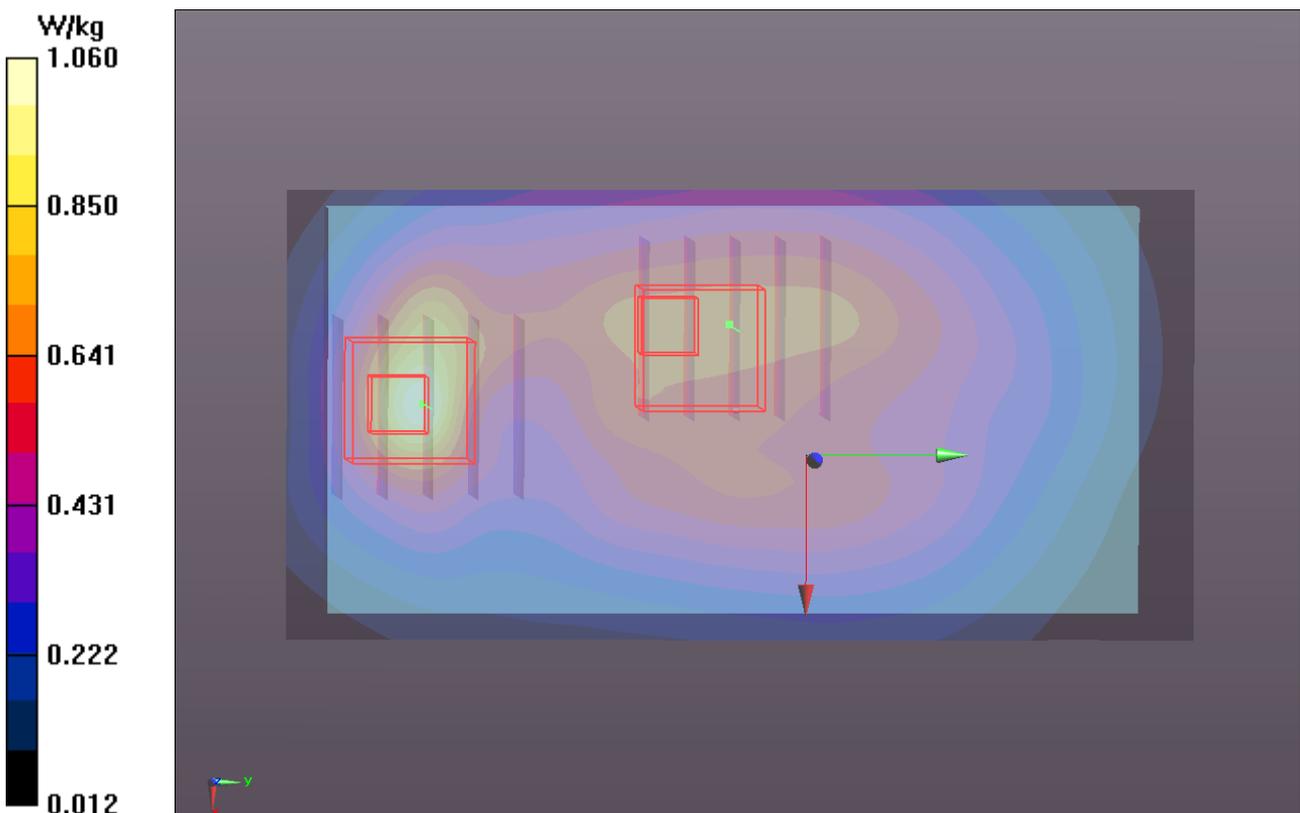
- **Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.009 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.435 W/kg

Maximum value of SAR (measured) = 0.652 W/kg



P16 GSM1900_GPRS 10_Rear Face_1cm_Ch512_Handset

DUT: 131213C05

Communication System: GPRS10; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: B1900_0115 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.482$ S/m; $\epsilon_r = 53.347$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

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

Reference Value = 13.445 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.571 W/kg

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

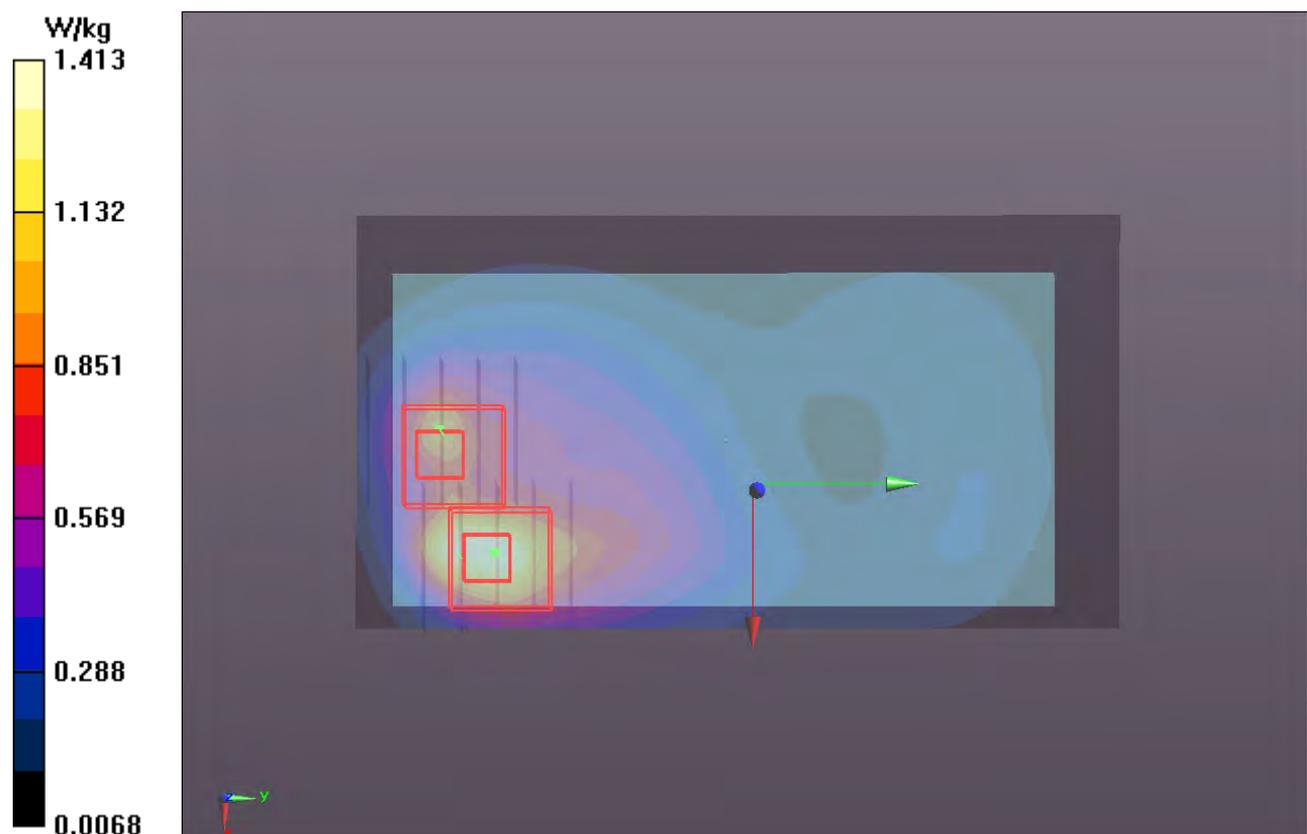
- **Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.445 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.372 W/kg

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



P17 WCDMA II_Rear Face_1cm_Ch9538_Handset

DUT: 131213C05

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

Medium: B1900_0106 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.562$ S/m; $\epsilon_r = 51.935$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(7.23, 7.23, 7.23); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.819 W/kg

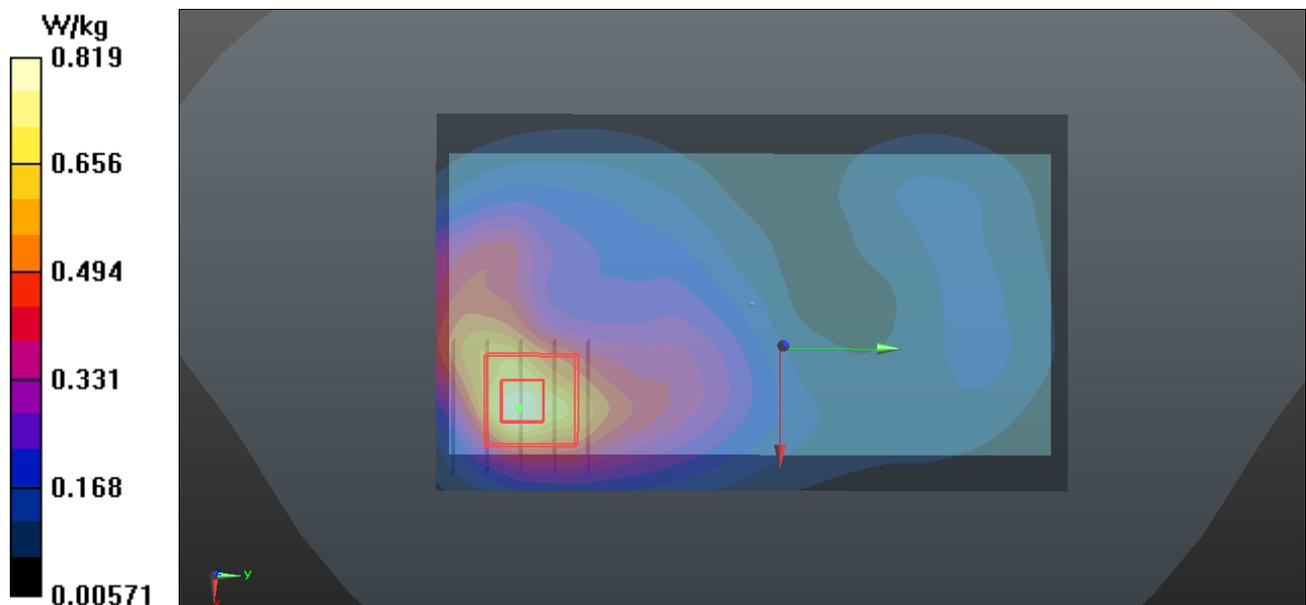
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.837 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.634 W/kg; SAR(10 g) = 0.339 W/kg

Maximum value of SAR (measured) = 0.864 W/kg



P18 WCDMA V_Rear Face_1cm_Ch4233_Handset

DUT: 131213C05

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

Medium: B835_0104 Medium parameters used: $f = 847$ MHz; $\sigma = 1.012$ S/m; $\epsilon_r = 56.736$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.404 W/kg

- **Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.166 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.230 W/kg

Maximum value of SAR (measured) = 0.344 W/kg

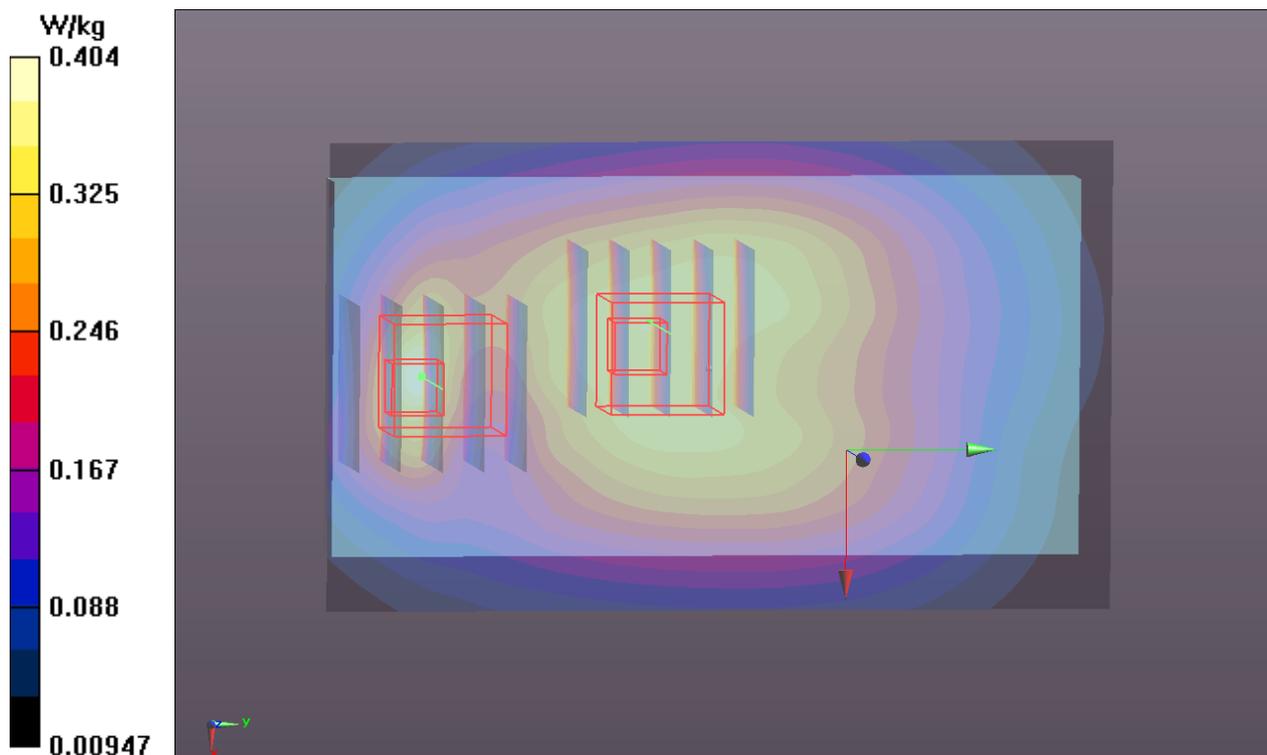
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.166 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 0.373 W/kg



P19 LTE 2_QPSK_10M_Rear Face_1cm_Ch19150_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: B1900_0115 Medium parameters used: $f = 1905$ MHz; $\sigma = 1.549$ S/m; $\epsilon_r = 53.191$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.698 W/kg

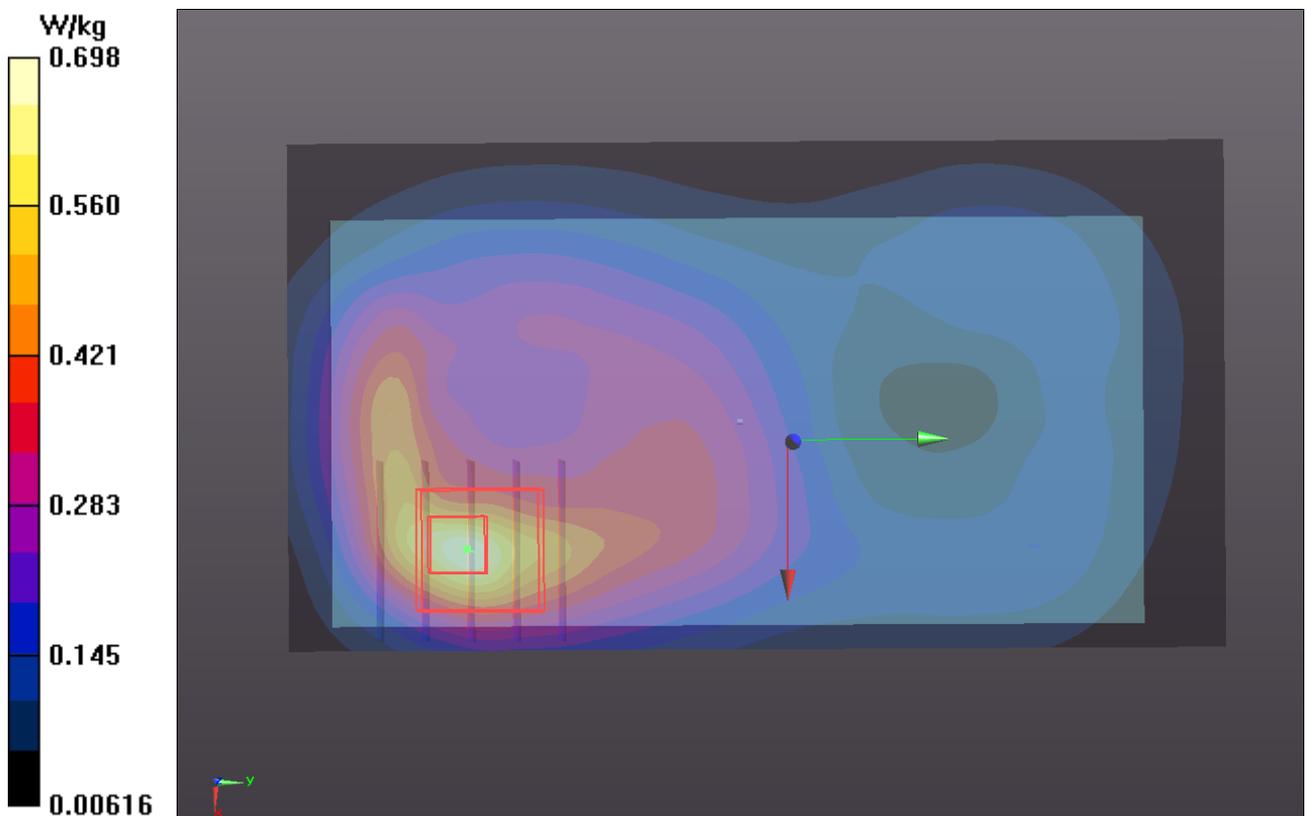
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.274 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.997 W/kg

SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 0.781 W/kg



P20 LTE 4_QPSK_10M_Rear Face_1cm_Ch20350_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE 4; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: B1750_0115 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 52.082$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.1, 8.1, 8.1); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.851 W/kg

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

Reference Value = 8.890 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.999 W/kg

SAR(1 g) = 0.620 W/kg; SAR(10 g) = 0.381 W/kg

Maximum value of SAR (measured) = 0.789 W/kg

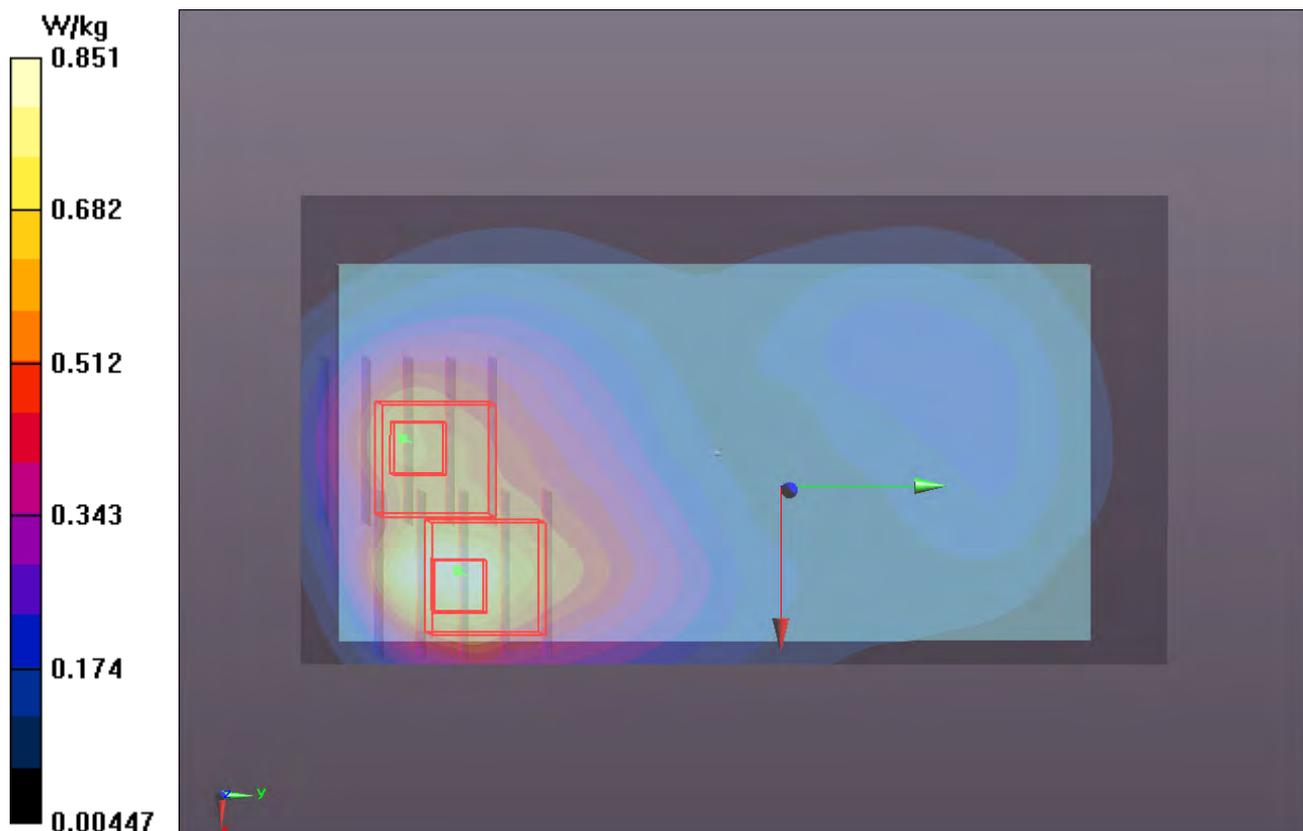
- **Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.890 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.767 W/kg

SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.315 W/kg

Maximum value of SAR (measured) = 0.629 W/kg



P21 LTE 5_QPSK_10M_Rear Face_1cm_Ch20450_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B835_0116 Medium parameters used: $f = 829$ MHz; $\sigma = 0.986$ S/m; $\epsilon_r = 55.547$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.14, 10.14, 10.14); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.398 W/kg

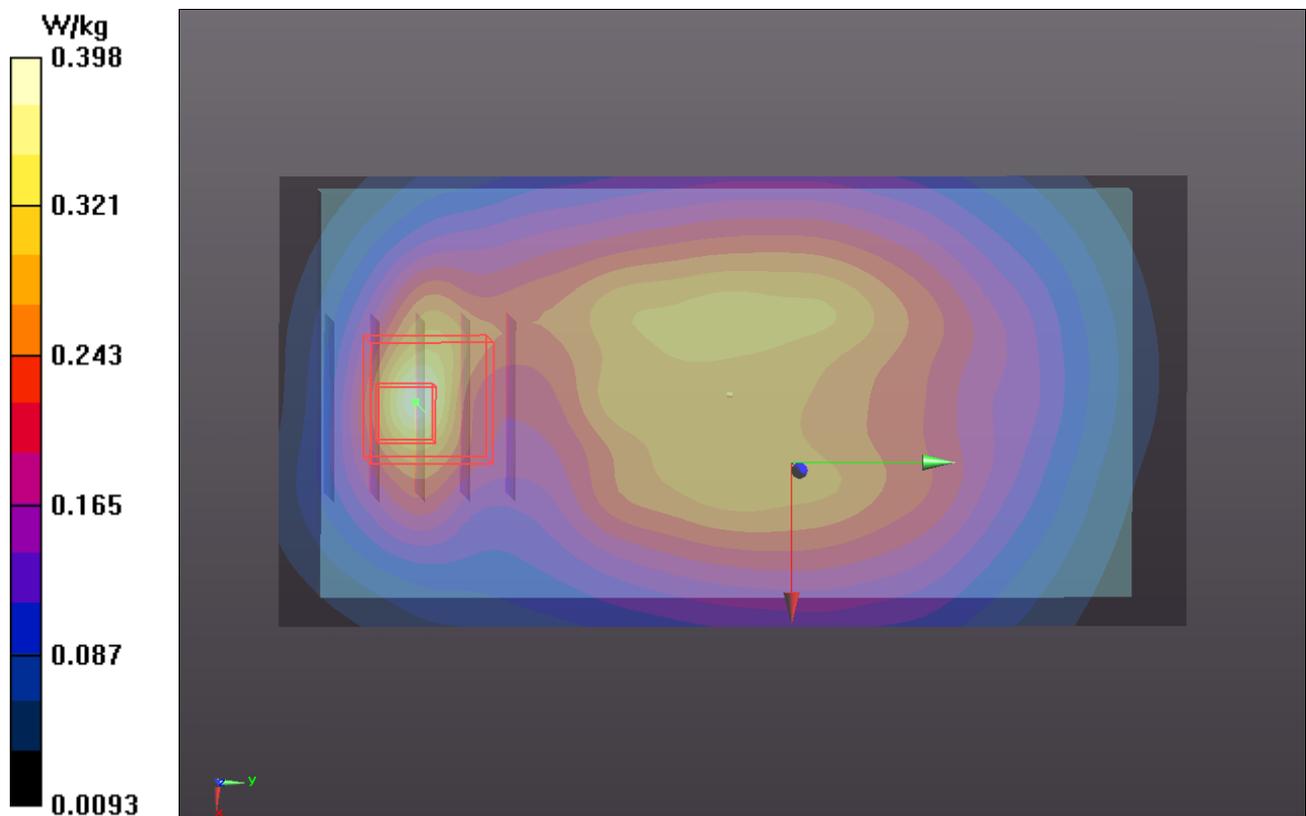
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.324 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.139 W/kg

Maximum value of SAR (measured) = 0.345 W/kg



P22 LTE 7_QPSK_10M_Rear Face_1cm_Ch20800_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE; Frequency: 2505 MHz; Duty Cycle: 1:1

Medium: B2600_0103 Medium parameters used: $f = 2505$ MHz; $\sigma = 2.062$ S/m; $\epsilon_r = 52.34$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.91, 6.91, 6.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.443 W/kg

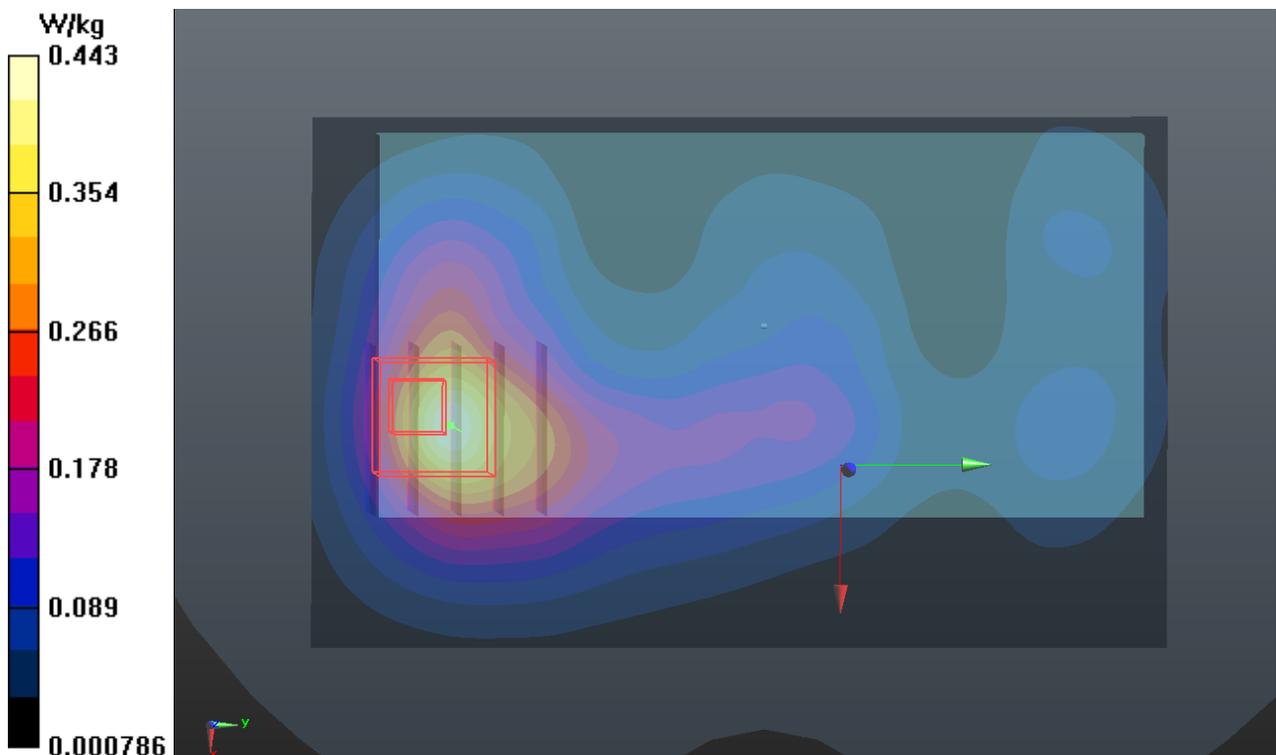
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.746 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.514 W/kg

SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.374 W/kg



P23 LTE 17_QPSK_10M_Rear Face_1cm_Ch23780_Handset_1RB_OS24

DUT: 131213C05

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium: B750_0116 Medium parameters used: $f = 709$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 55.594$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(10.15, 10.15, 10.15); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.383 W/kg

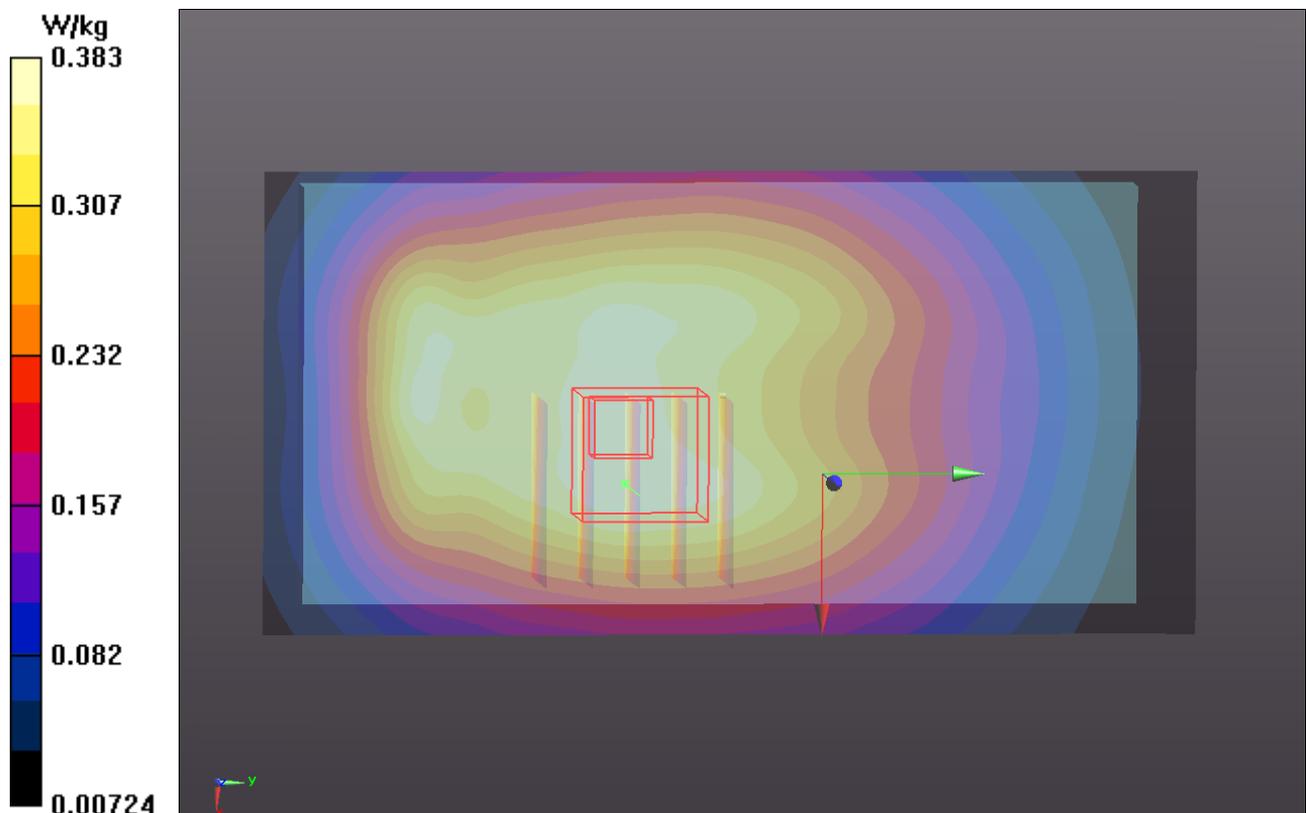
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.251 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.418 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.268 W/kg

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



P24 802.11b_Front Face_1cm_Ch1_Handset

DUT: 131213C05

Communication System: WLAN_2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1.02

Medium: B2450_0103 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.913$ S/m; $\epsilon_r = 51.316$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.09, 7.09, 7.09); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.135 W/kg

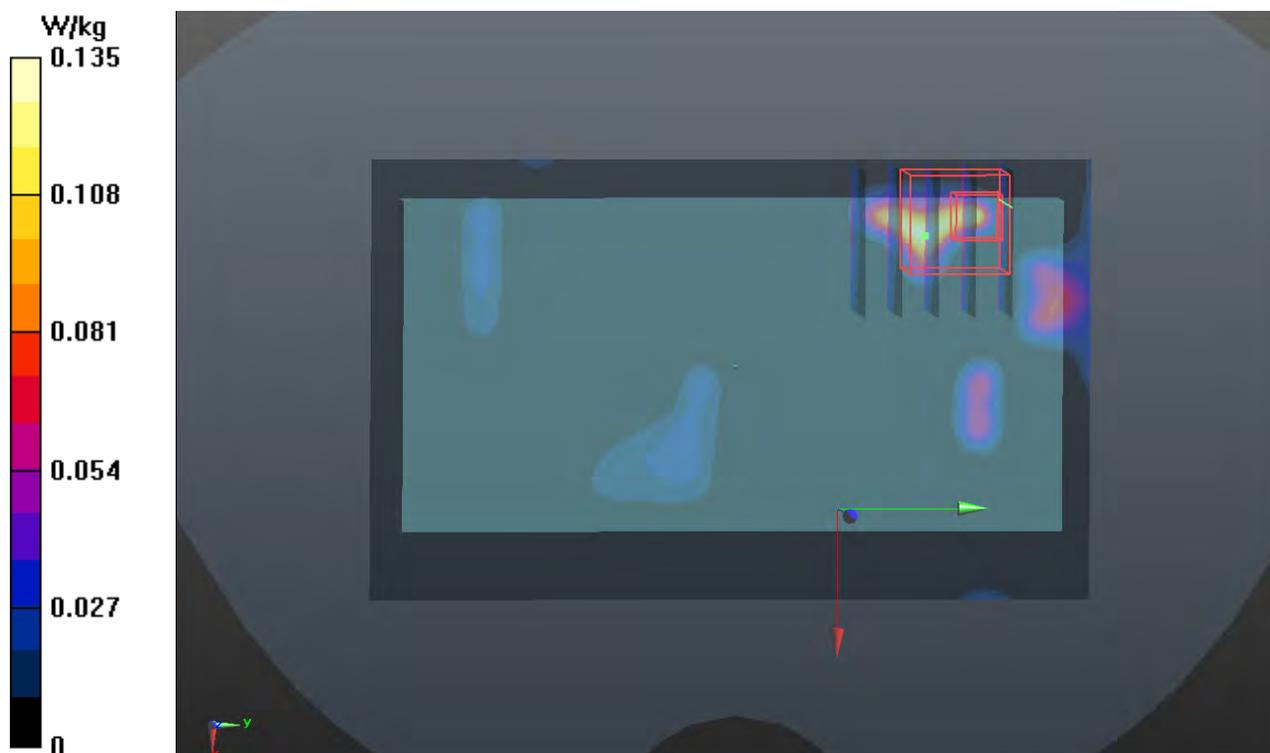
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.140 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.0934 W/kg



P25 802.11a_Rear Face_1cm_Ch48_Handset

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5240 MHz; Duty Cycle: 1:1.16

Medium: B5G_0116 Medium parameters used: $f = 5240$ MHz; $\sigma = 5.258$ S/m; $\epsilon_r = 50.895$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.1 °C ; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.816 W/kg

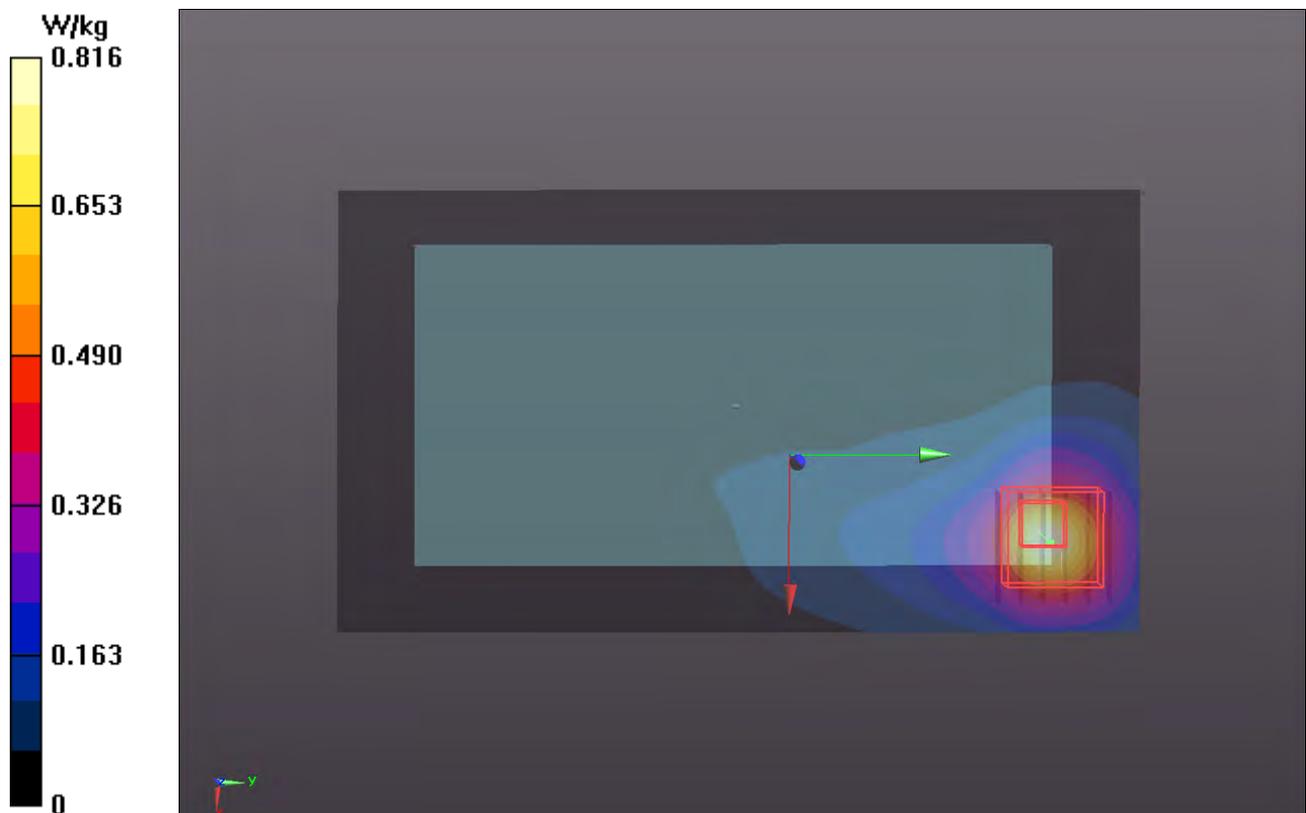
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.348 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 0.898 W/kg



P26 802.11a_Rear Face_1cm_Ch52_Handset

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5260 MHz; Duty Cycle: 1:1.16

Medium: B5G_0116 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.295$ S/m; $\epsilon_r = 50.88$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.01, 4.01, 4.01); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.807 W/kg

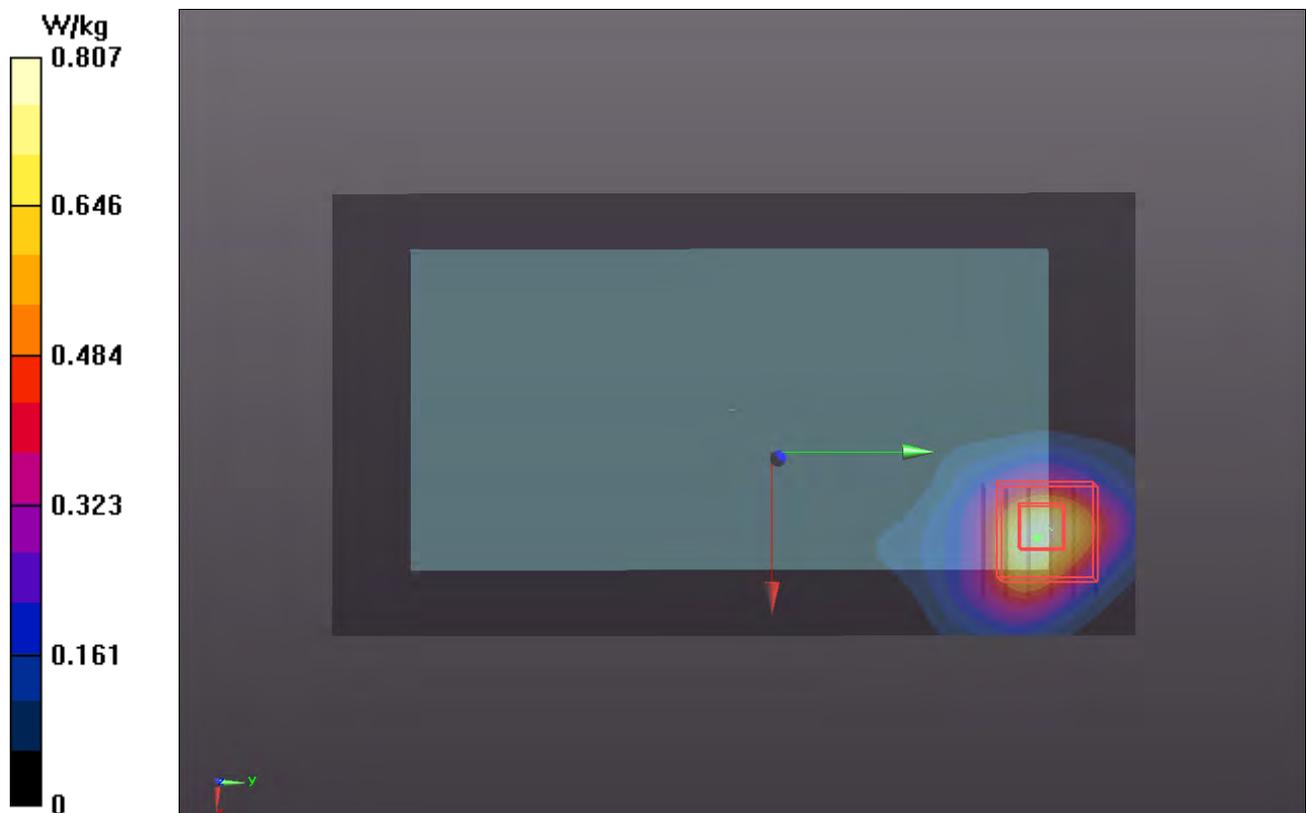
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.359 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 0.917 W/kg



P27 802.11a_Rear Face_1cm_Ch140_Handset

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5700 MHz; Duty Cycle: 1:1.16

Medium: B5G_0116 Medium parameters used: $f = 5700$ MHz; $\sigma = 6.03$ S/m; $\epsilon_r = 50.002$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(3.69, 3.69, 3.69); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (101x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.599 W/kg

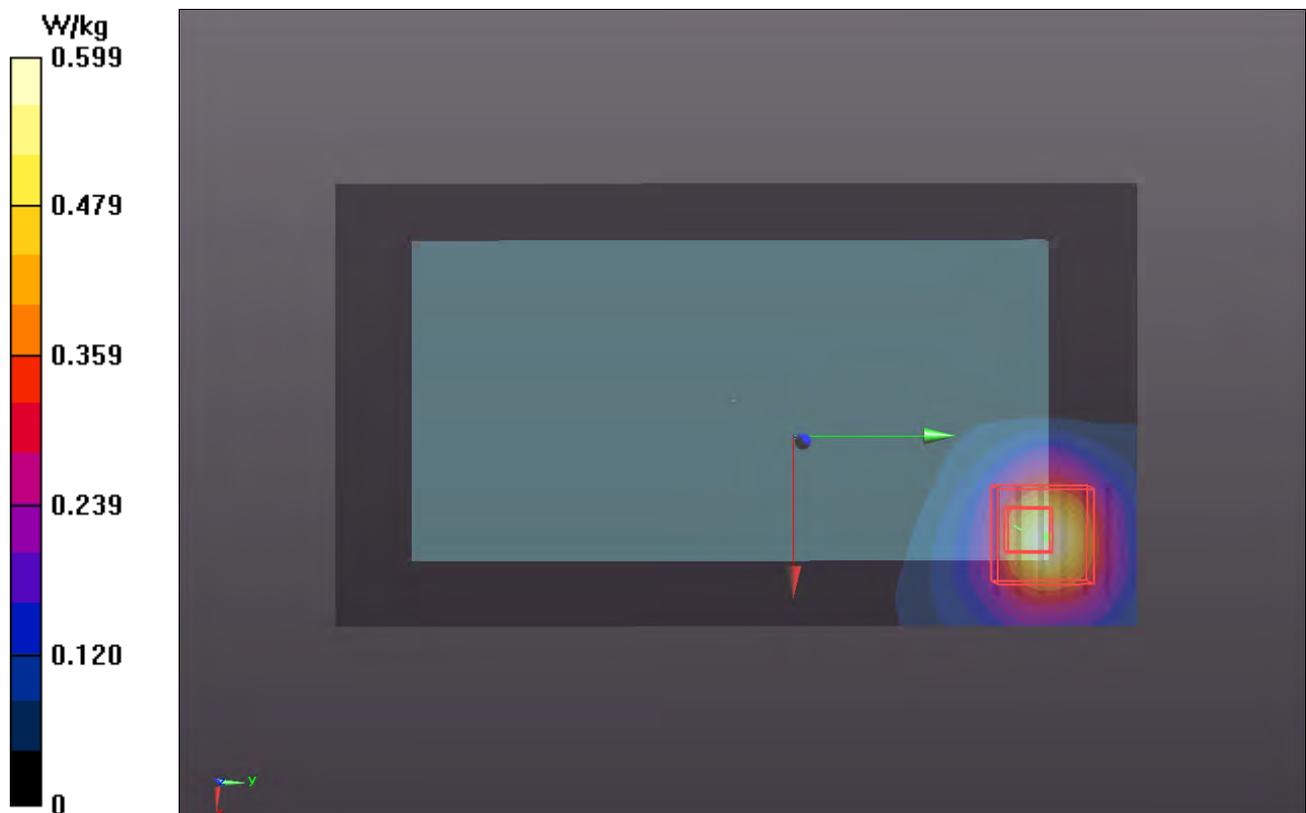
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.428 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.626 W/kg



P28 802.11a_Rear Face_1cm_Ch161_Handset

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5805 MHz; Duty Cycle: 1:1.16

Medium: B5G_0116 Medium parameters used: $f = 5805$ MHz; $\sigma = 6.187$ S/m; $\epsilon_r = 49.745$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(3.93, 3.93, 3.93); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.616 W/kg

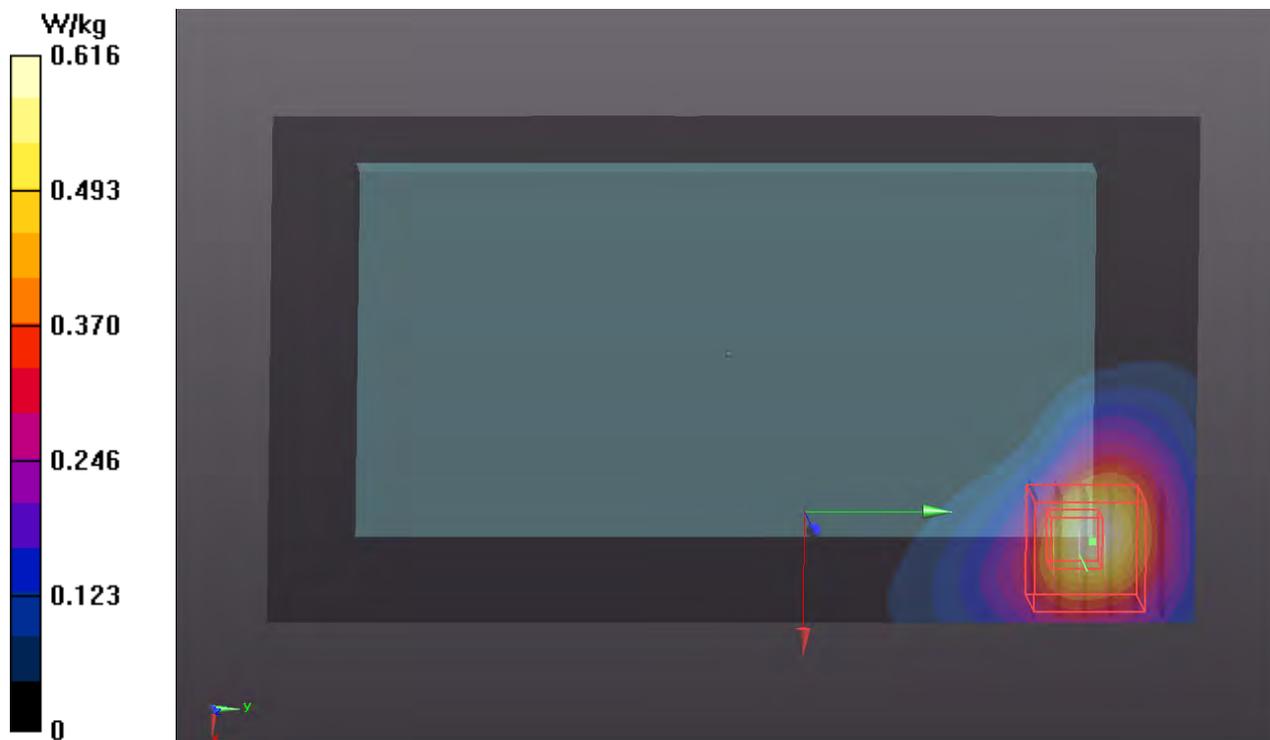
- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.201 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.140 W/kg

Maximum value of SAR (measured) = 0.687 W/kg



P29 GSM850_GPRS10_Top Side_0.8cm_Ch251_Tablet_w/o Pw Reduction

DUT: 131213C05

Communication System: GPRS10; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: B835_0104 Medium parameters used: $f = 849$ MHz; $\sigma = 1.014$ S/m; $\epsilon_r = 56.718$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (41x181x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.952 W/kg

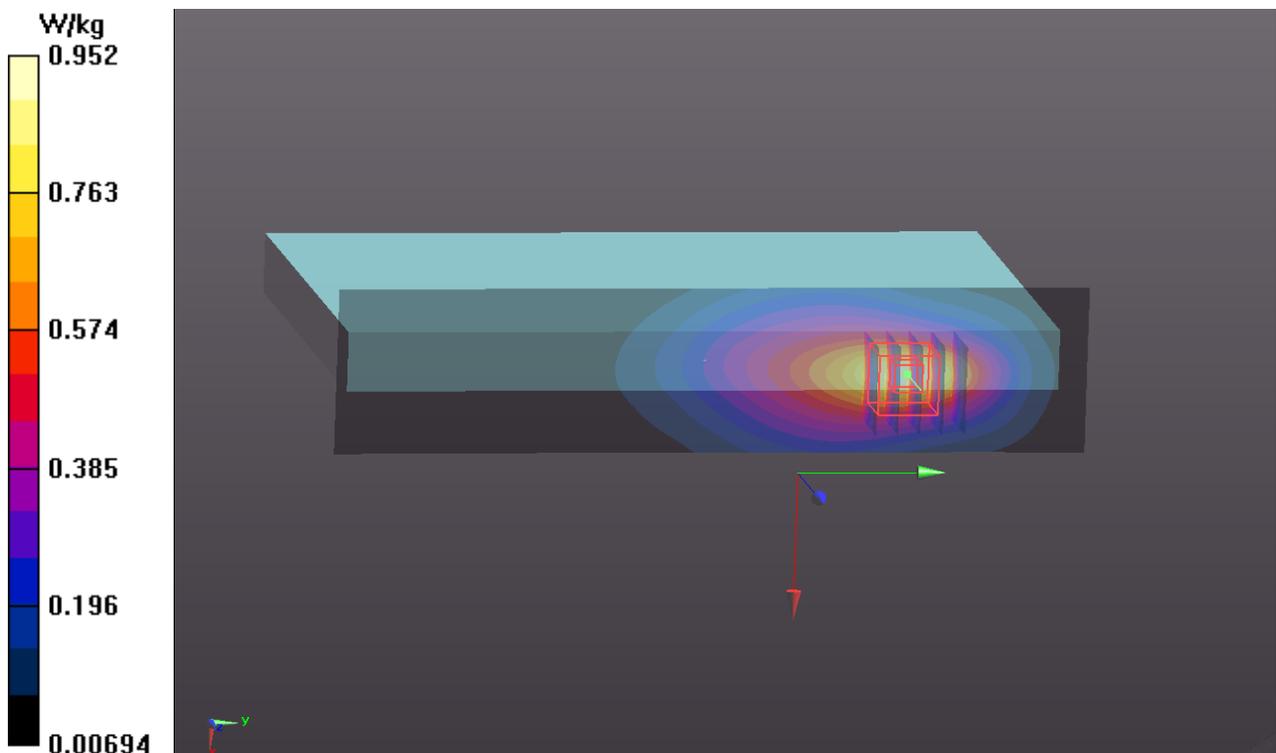
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.016 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.733 W/kg; SAR(10 g) = 0.476 W/kg

Maximum value of SAR (measured) = 0.936 W/kg



P30 GSM1900_GPRS10_Top Side_0.8cm_Ch810_Tablet_w/o Pw Reduction

DUT: 131213C05

Communication System: GPRS10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: B1900_0103 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.555$ S/m; $\epsilon_r = 53.186$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.5 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (41x181x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.791 W/kg

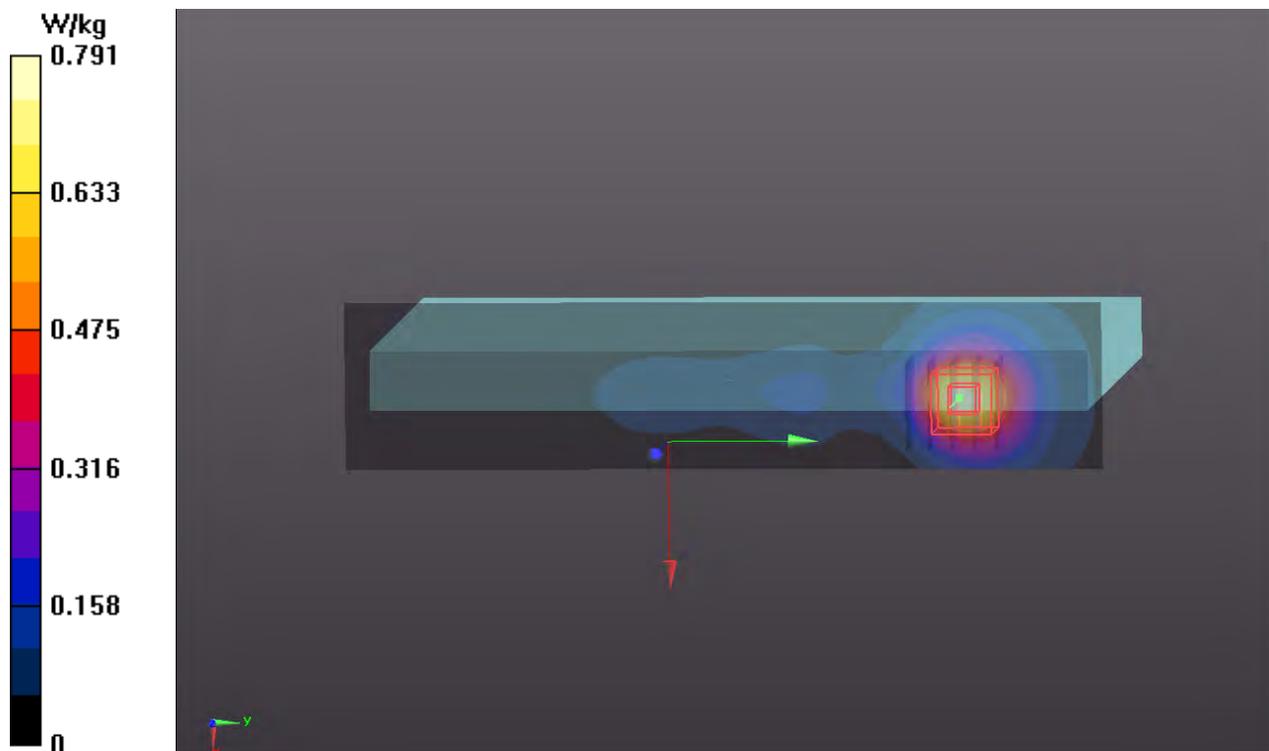
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.704 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.750 W/kg



P31 WCDMA II_RMC12.2K_Top Side_0cm_Ch9400_Tablet_w/ Pw Reduction

DUT: 131213C05

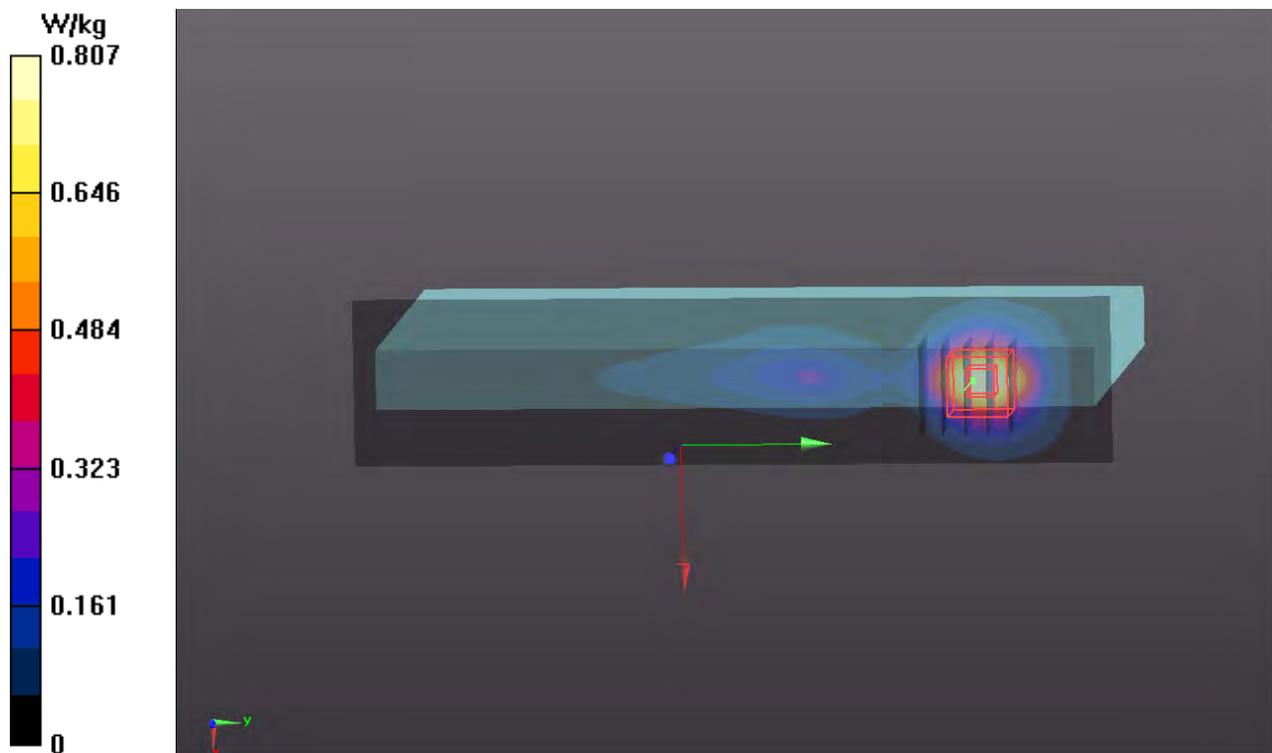
Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium: B1900_0106 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.533 \text{ S/m}$; $\epsilon_r = 53.495$; $\rho = 1000 \text{ kg/m}^3$
 Ambient Temperature : $22.3 \text{ }^\circ\text{C}$; Liquid Temperature : $21.7 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (41x181x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.807 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 9.351 V/m ; Power Drift = 0.18 dB
 Peak SAR (extrapolated) = 0.990 W/kg
SAR(1 g) = 0.568 W/kg ; SAR(10 g) = 0.309 W/kg
 Maximum value of SAR (measured) = 0.757 W/kg



P32 WCDMA V_RMC12.2k_Top Side_0cm_Ch4132_Tablet_w/ Pw Reduction

DUT: 131213C05

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

Medium: B835_0107 Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.989 \text{ S/m}$; $\epsilon_r = 56.762$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $22.4 \text{ }^\circ\text{C}$; Liquid Temperature : $21.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (31x181x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

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

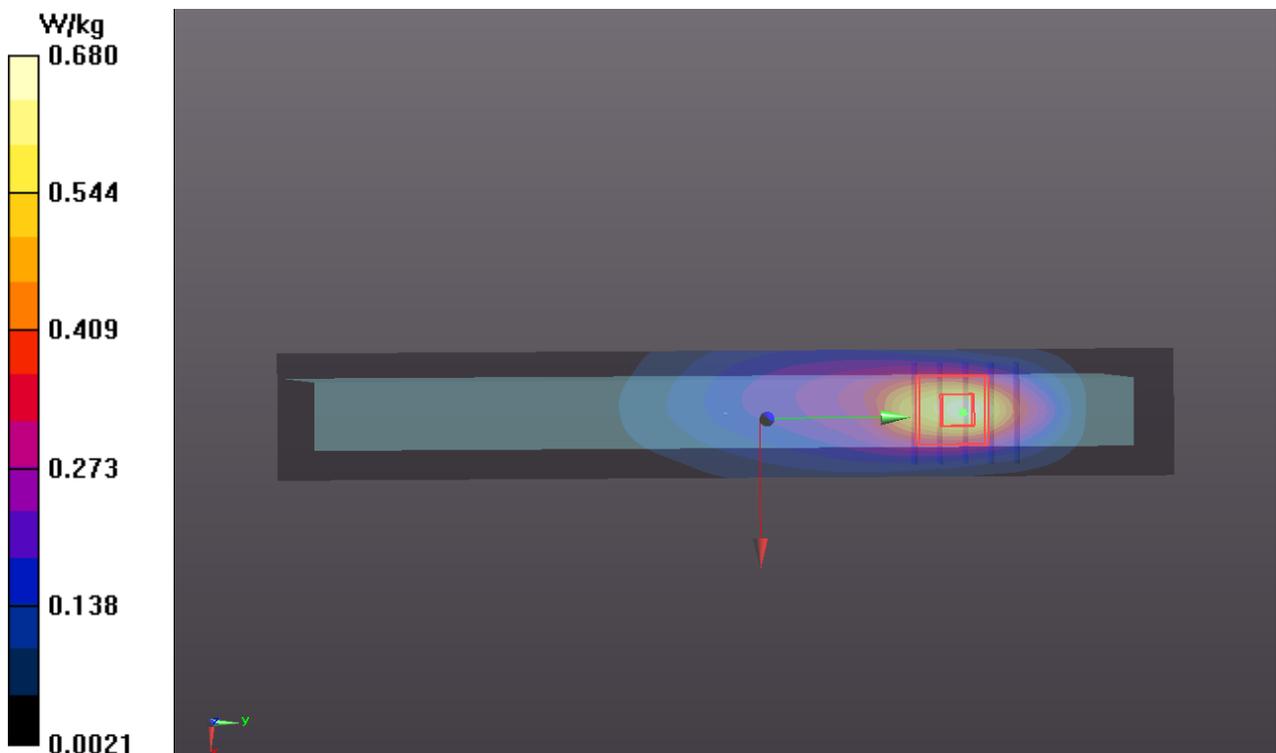
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.925 V/m ; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.820 W/kg

SAR(1 g) = 0.453 W/kg ; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.639 W/kg



P33 LTE 2_QPSK_10M_Top Side_0cm_Ch18650_Tablet_w/ Pw Reduction _EUT2_1RB_OS24

DUT: 131213C05

Communication System: LTE 2; Frequency: 1855 MHz; Duty Cycle: 1:1

Medium: B1900_0220 Medium parameters used: $f = 1855$ MHz; $\sigma = 1.495$ S/m; $\epsilon_r = 52.04$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.8 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (41x181x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

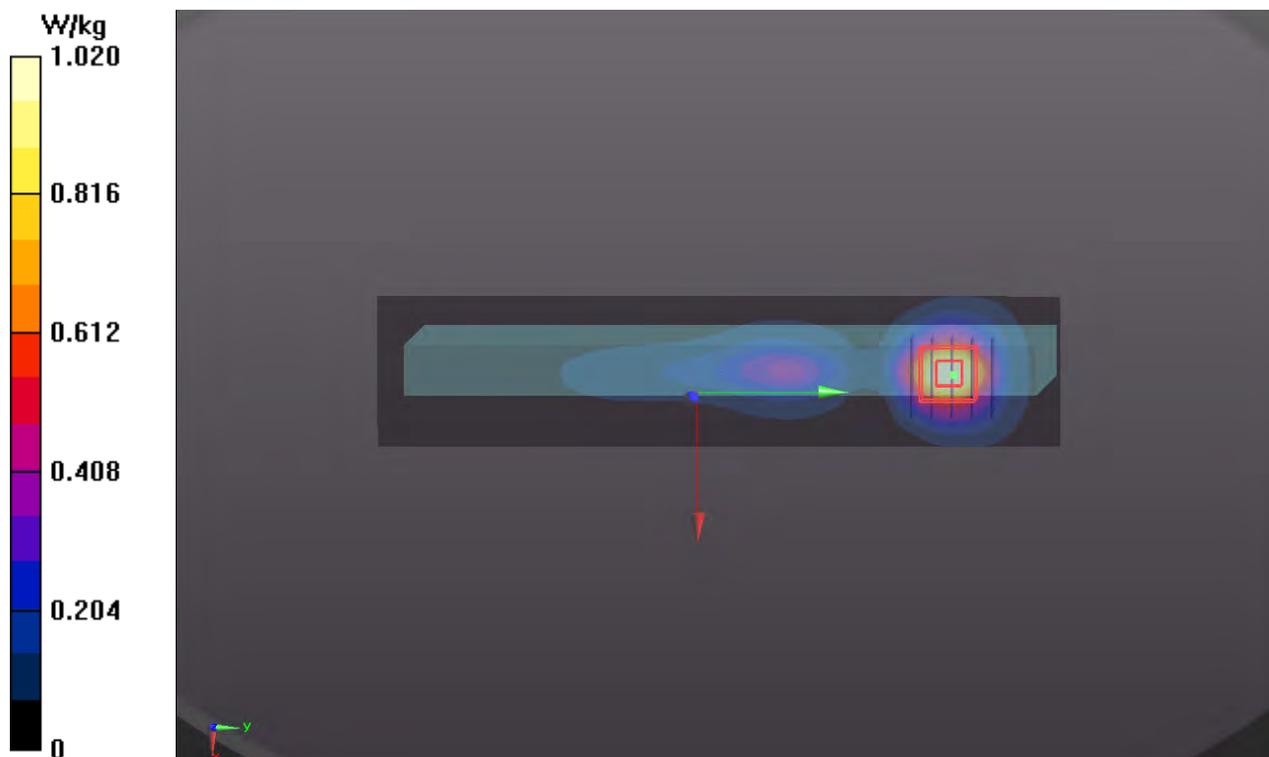
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.386 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.422 W/kg

Maximum value of SAR (measured) = 0.998 W/kg



P34 LTE 4_QPSK_10M_Top Side_0cm_Ch20350_Tablet_w/ Pw Reduction_1RB_OS49

DUT: 131213C05

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

Medium: B1750_0115 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 52.082$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.1, 8.1, 8.1); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (31x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.883 W/kg

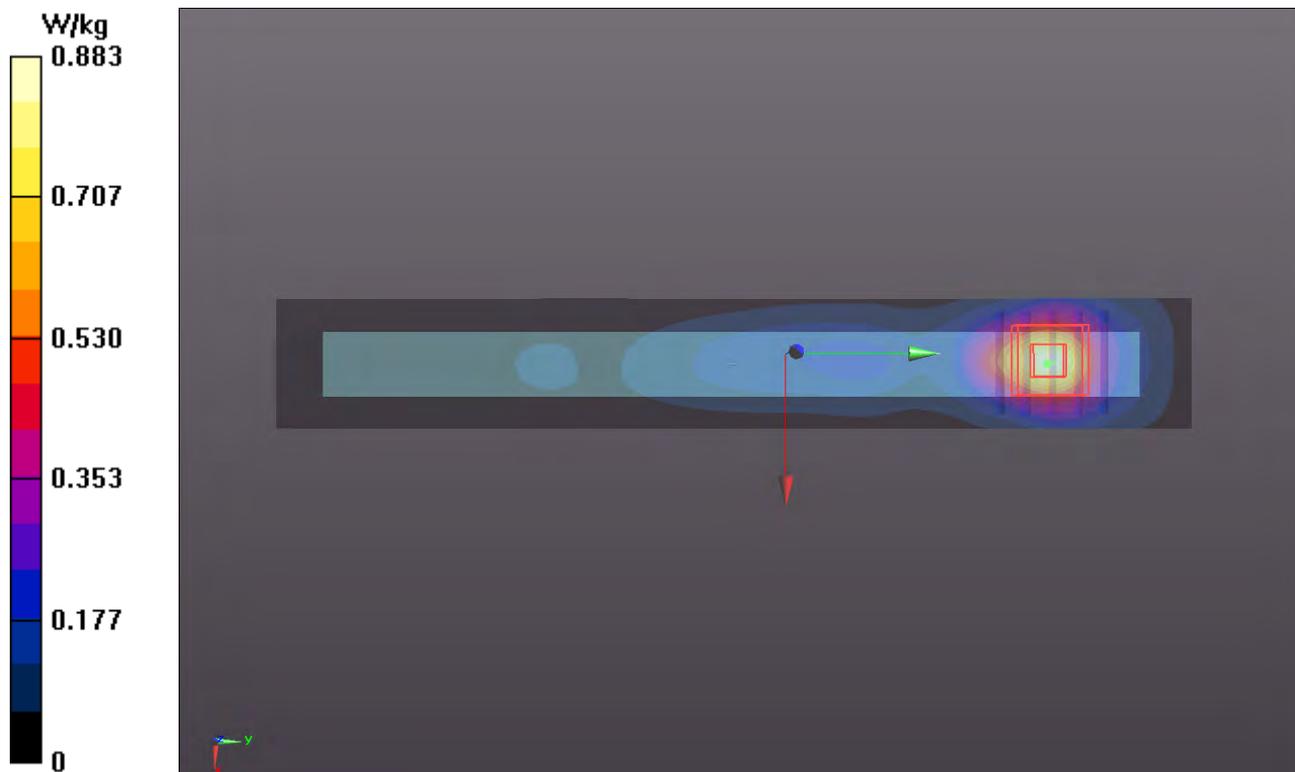
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.608 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.378 W/kg

Maximum value of SAR (measured) = 0.876 W/kg



P35 LTE 5_QPSK_10M_Top Side_0cm_Ch20450_Tablet_w/ Pw Reduction_1RB_OS0

DUT: 131213C05

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B835_0107 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.992 \text{ S/m}$; $\epsilon_r = 56.735$; $\rho = 1000 \text{ kg/m}^3$

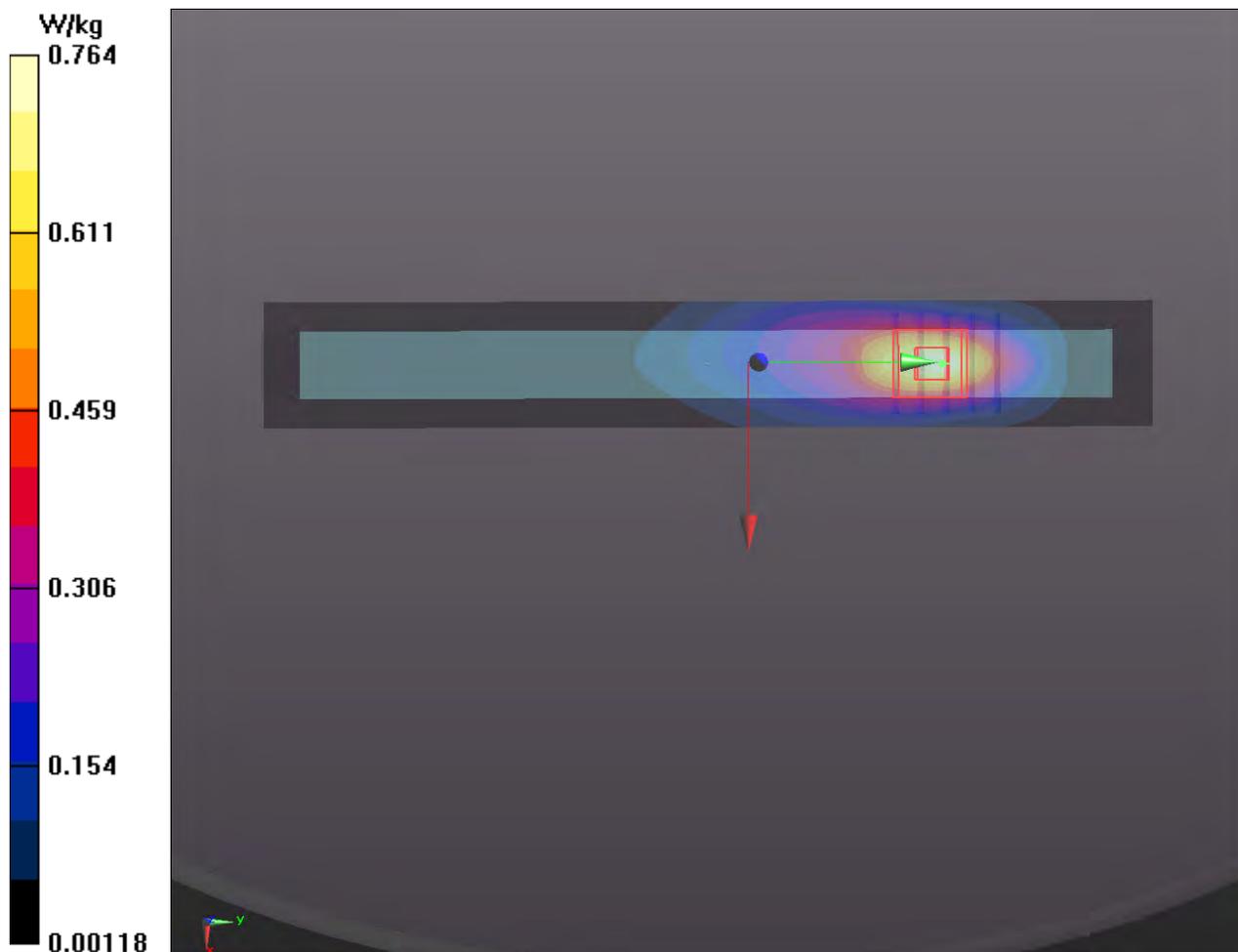
Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (31x181x1):** Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.764 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 11.397 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.891 W/kg
SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.295 W/kg
 Maximum value of SAR (measured) = 0.714 W/kg



P36 LTE 7_QPSK_10M_Top Side_0.8cm_Ch20800_Tablet_w/o Pw Reduction_1RB_OS24

DUT: 131213C05

Communication System: LTE; Frequency: 2505 MHz; Duty Cycle: 1:1

Medium: B2600_0104 Medium parameters used: $f = 2505$ MHz; $\sigma = 2.074$ S/m; $\epsilon_r = 52.673$; $\rho = 1000$ kg/m³

Ambient Temperature : 20.9 °C; Liquid Temperature : 20.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.91, 6.91, 6.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (41x241x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

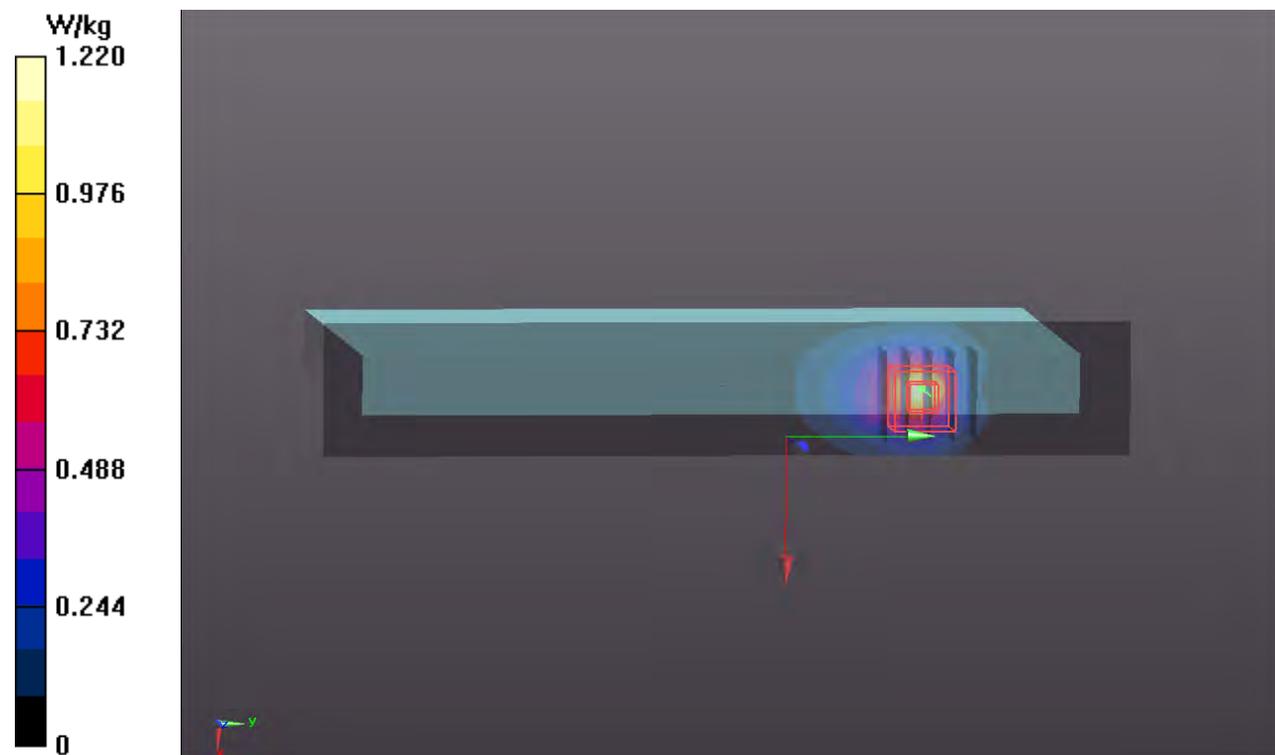
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.705 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.404 W/kg

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



P37 LTE 17_QPSK_10M_Top Side_0cm_Ch23790_Tablet_w/ Pw Reduction _1RB_OS24

DUT: 131213C05

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium: B750_0107 Medium parameters used: $f = 710$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 55.566$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.51, 9.51, 9.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: TP:1206
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (21x141x1):** Interpolated grid: dx=2.000 mm, dy=2.000 mm
Maximum value of SAR (interpolated) = 0.389 W/kg

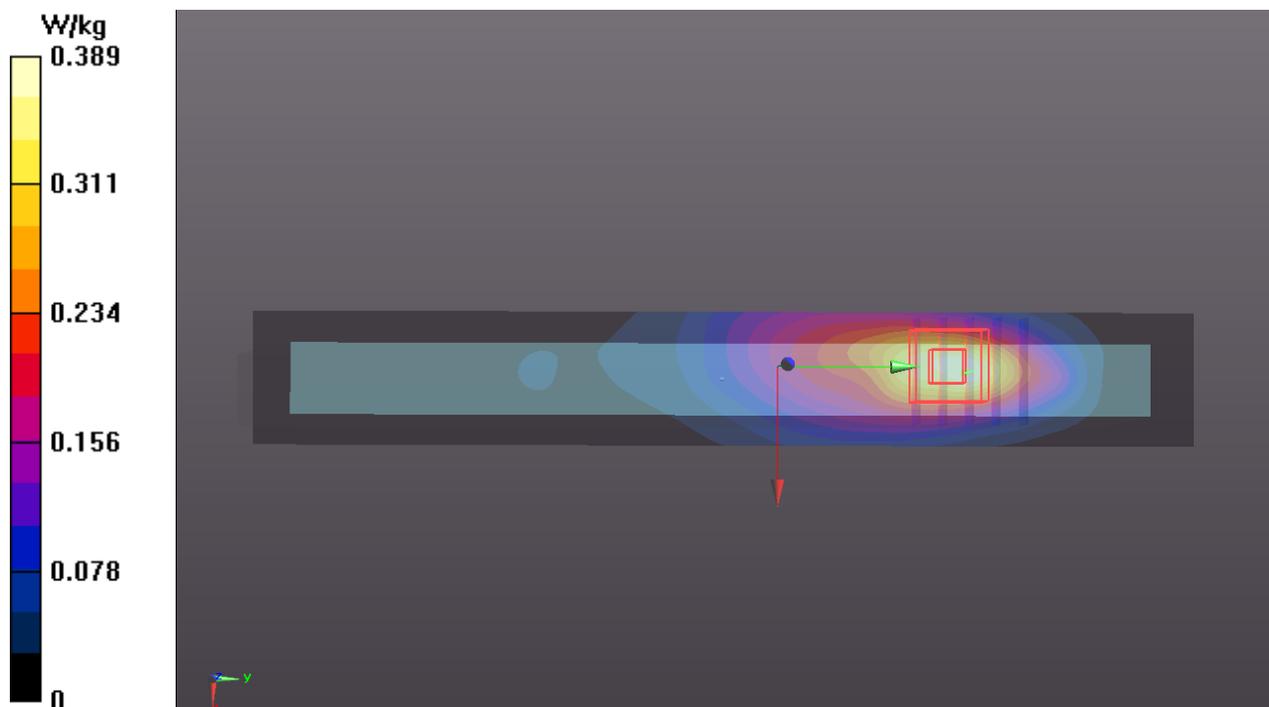
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.048 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.174 W/kg

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



P38 802.11b_Rear Face_0cm_Ch1_Tablet

DUT: 131213C05

Communication System: WLAN_2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1.02

Medium: B2450_0115 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.913$ S/m; $\epsilon_r = 51.514$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.8°C; Liquid Temperature : 20.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.08, 8.08, 8.08); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2013/03/19
- Phantom: ELI v4.0_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (161x221x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.596 W/kg

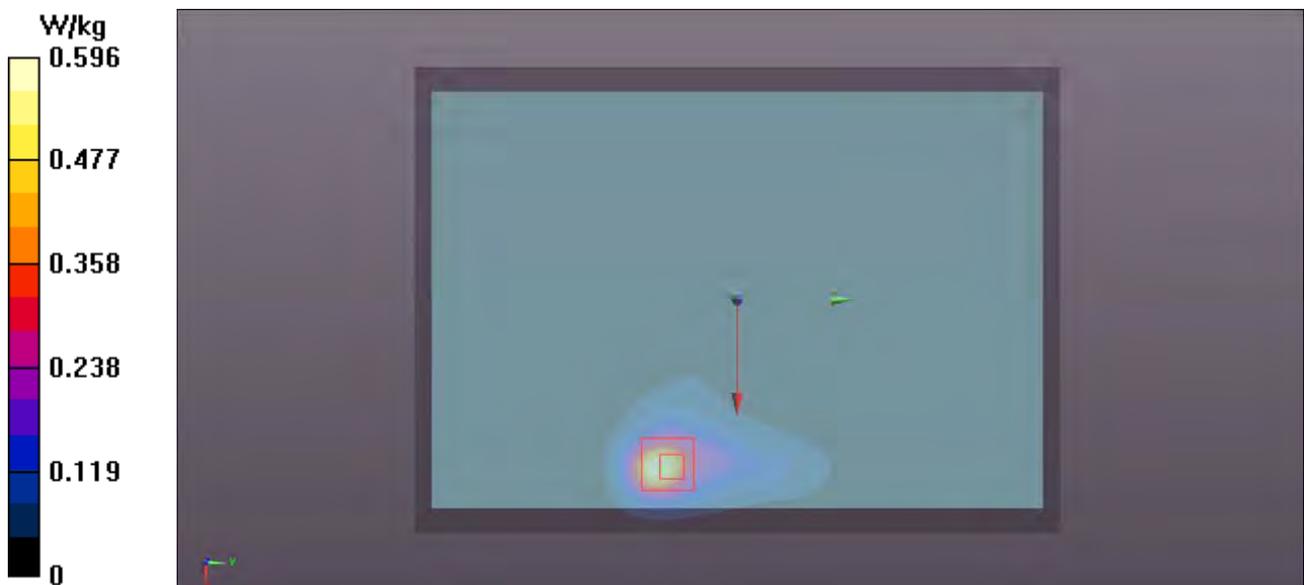
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.382 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.185 W/kg

Maximum value of SAR (measured) = 0.888 W/kg



P39 802.11a_Rear Face_0cm_Ch48_Tablet

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5240 MHz; Duty Cycle: 1:1.16

Medium: B5G_0122 Medium parameters used: $f = 5240$ MHz; $\sigma = 5.395$ S/m; $\epsilon_r = 47.302$; $\rho = 1000$ kg/m³

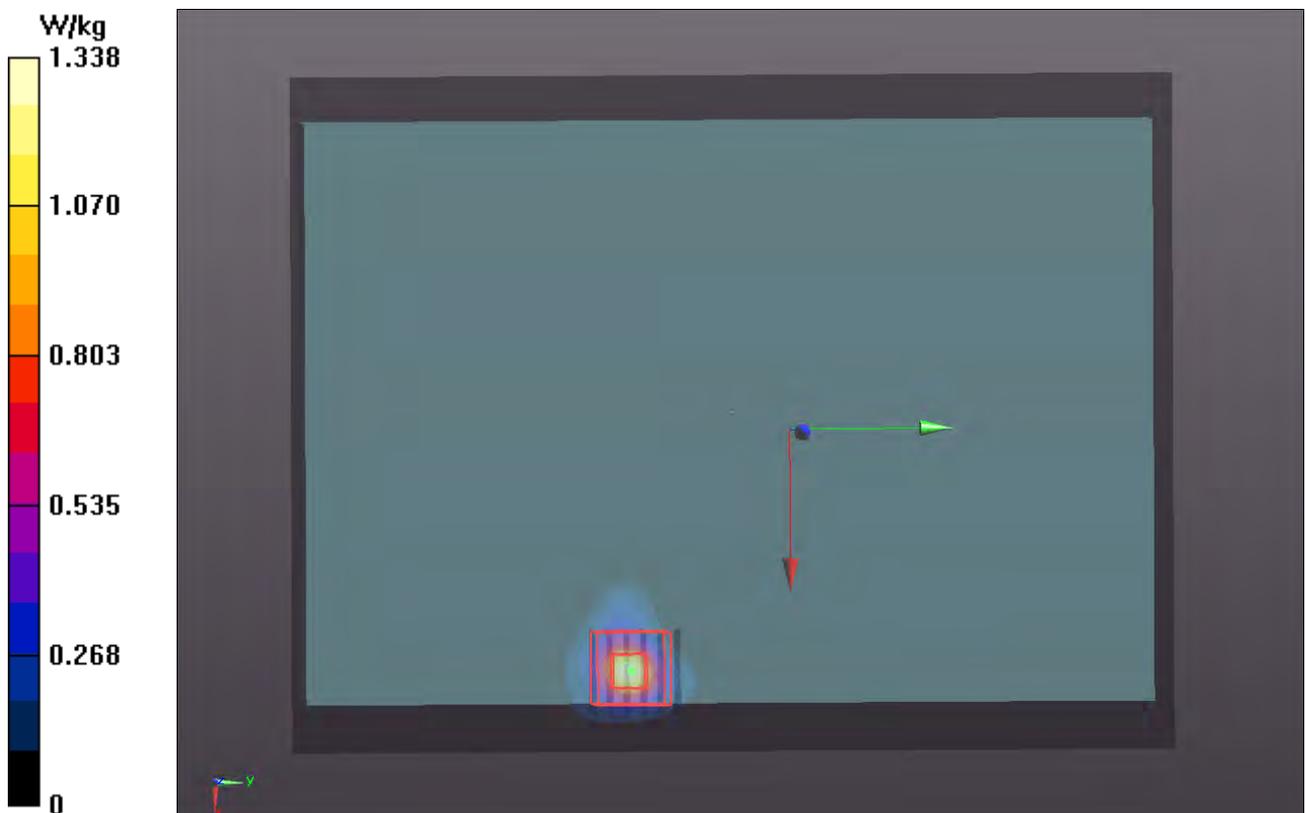
Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4.51, 4.51, 4.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (201x261x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 0.369 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 4.92 W/kg
SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.159 W/kg
Maximum value of SAR (measured) = 2.12 W/kg



P40 802.11a_Rear Face_0cm_Ch52_Tablet

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5260 MHz; Duty Cycle: 1:1.16

Medium: B5G_0116 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.481$ S/m; $\epsilon_r = 47.62$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.9 °C ; Liquid Temperature : 20.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.01, 4.01, 4.01); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x261x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.44 W/kg

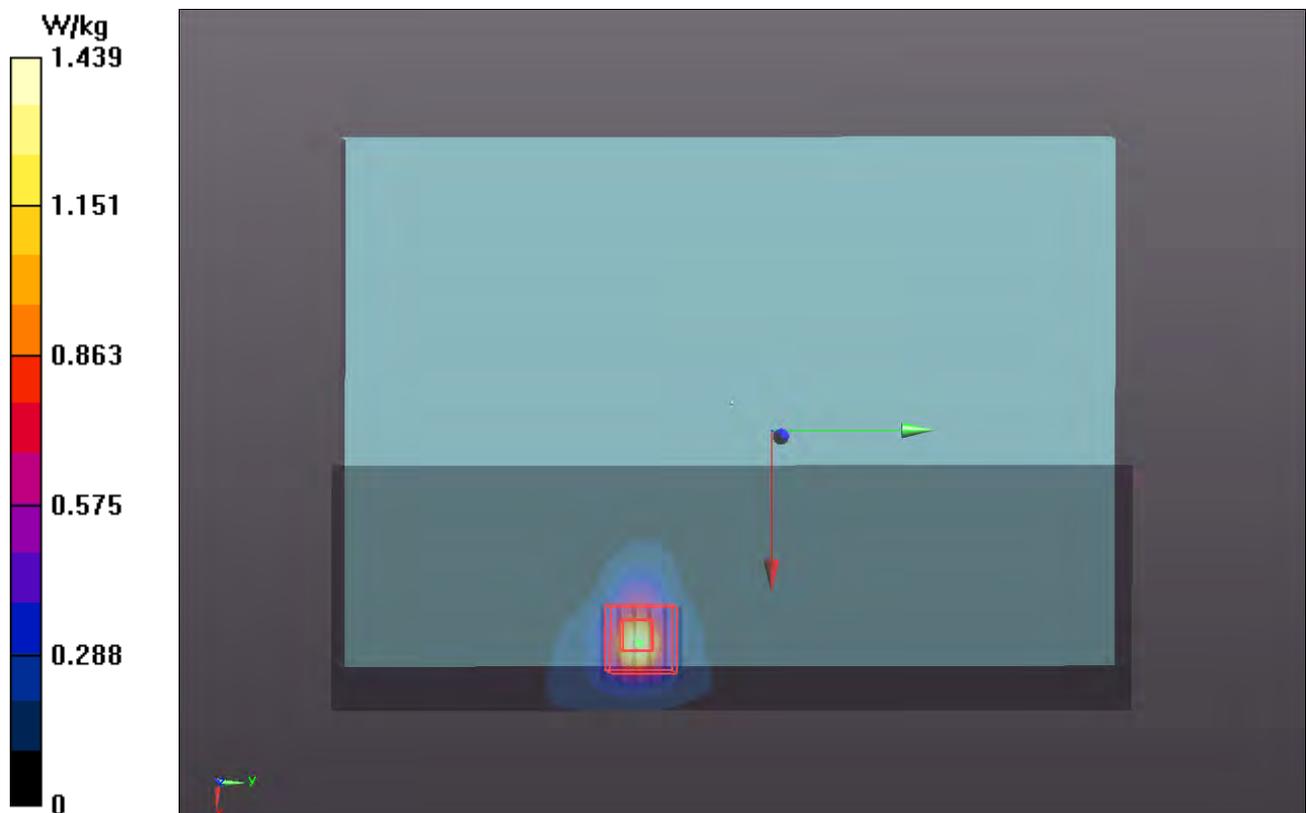
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.816 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 4.70 W/kg

SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 2.40 W/kg



P41 802.11a_Rear Face_0cm_Ch116_Tablet

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5580 MHz; Duty Cycle: 1:1.16

Medium: B5G_0122 Medium parameters used: $f = 5580$ MHz; $\sigma = 5.867$ S/m; $\epsilon_r = 46.645$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4, 4, 4); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x261x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.88 W/kg

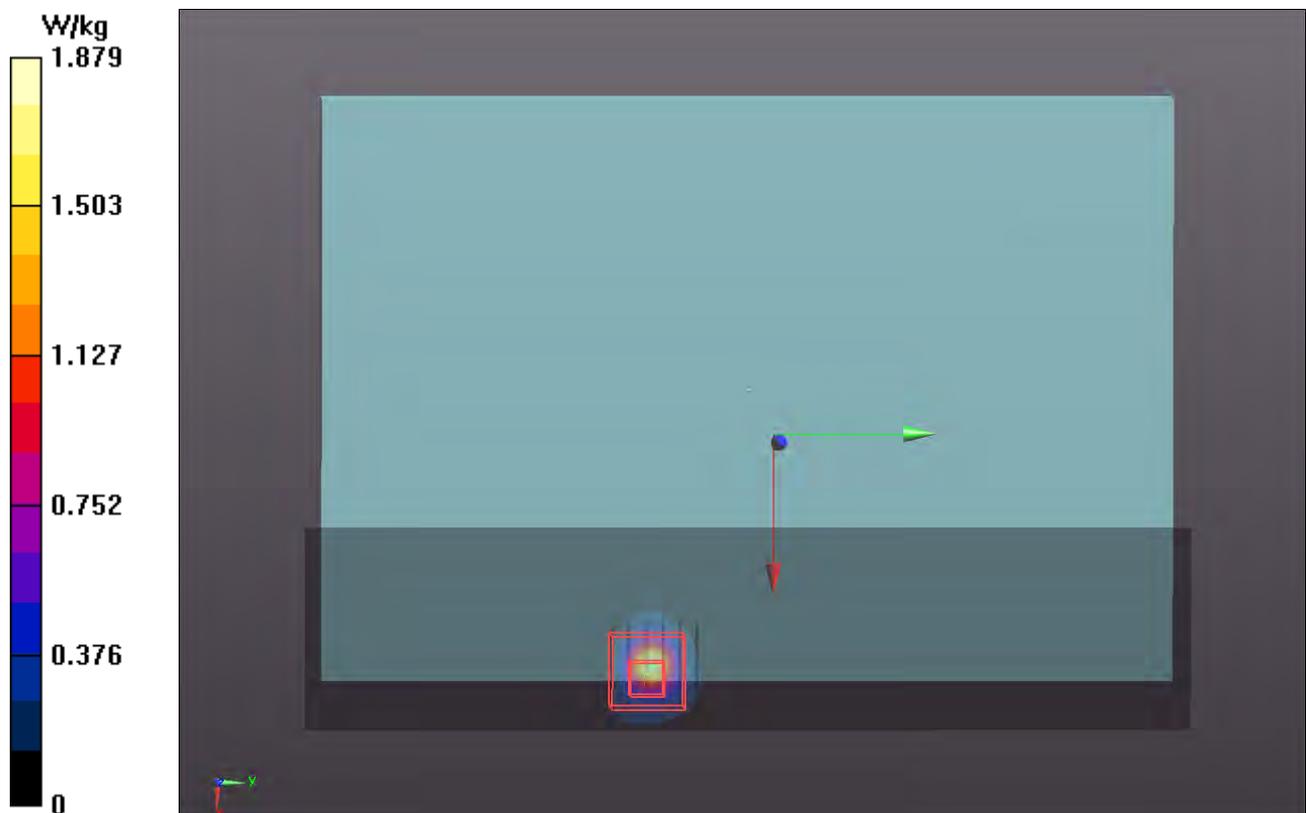
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 5.57 W/kg

SAR(1 g) = 0.929 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 2.81 W/kg



P42 802.11a_Rear Face_0cm_Ch153_Tablet

DUT: 131213C05

Communication System: WLAN_5G; Frequency: 5765 MHz; Duty Cycle: 1:1.16

Medium: B5G_0122 Medium parameters used: $f = 5765$ MHz; $\sigma = 6.117$ S/m; $\epsilon_r = 46.266$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.6 °C ; Liquid Temperature : 20.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4.21, 4.21, 4.21); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1204
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (61x261x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.603 W/kg

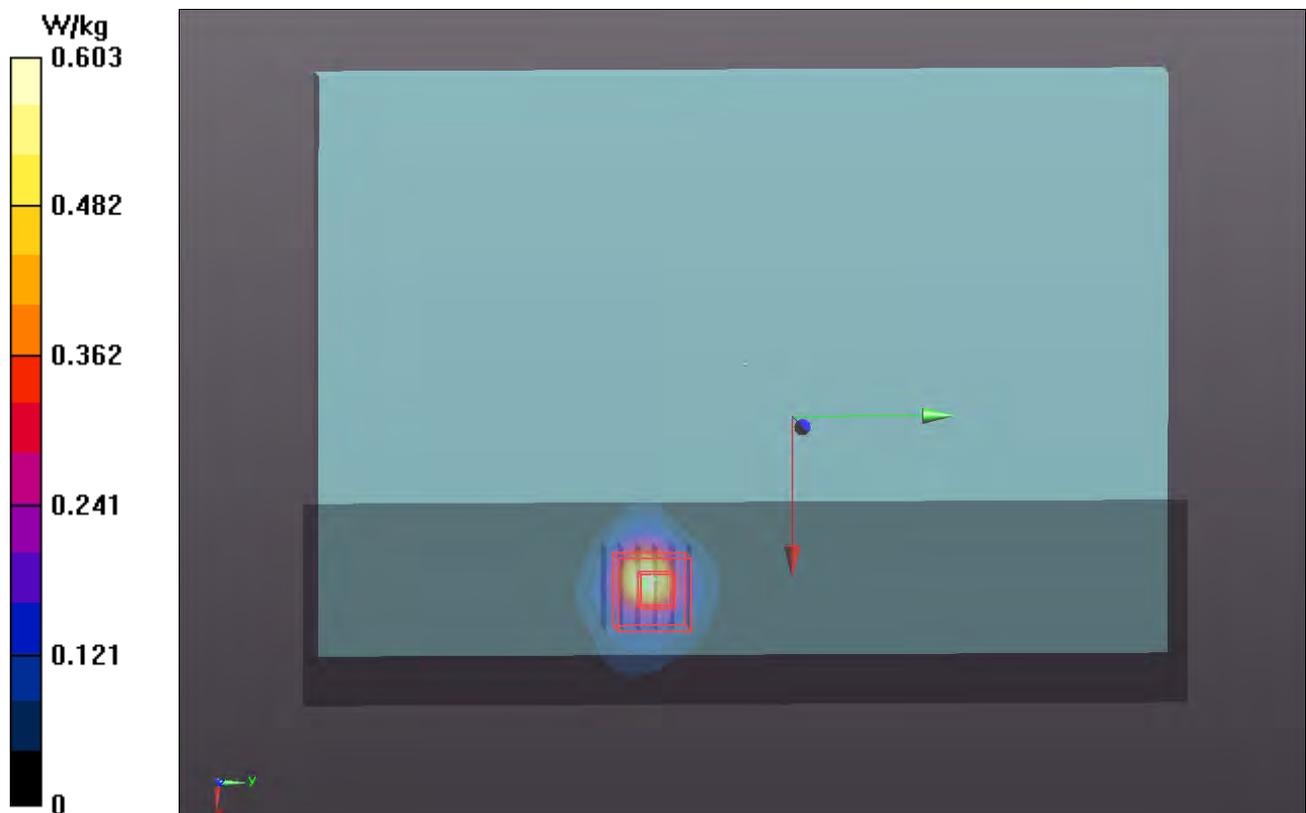
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 5.93 W/kg

SAR(1 g) = 0.866 W/kg; SAR(10 g) = 0.171 W/kg.

Maximum value of SAR (measured) = 2.19 W/kg



P43 Bluetooth_Rear Face_0cm_Ch0_Tablet

DUT: 131213C05

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.75

Medium: B2450_0115 Medium parameters used: $f = 2402$ MHz; $\sigma = 1.899$ S/m; $\epsilon_r = 51.58$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.8°C; Liquid Temperature : 20.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.08, 8.08, 8.08); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2013/03/19
- Phantom: ELI v4.0_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (161x221x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0693 W/kg

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

Reference Value = 0.686 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.021 W/kg

Maximum value of SAR (measured) = 0.0971 W/kg

