



SAR SUPPLEMENT REPORT

-preliminary and worst case finding supplement data

REPORT NO.: SA981105L04-7

MODEL NO.: MC75A6

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TESTED: Jun. 04 ~ Jun. 05, 2010

ISSUED: Jun. 14, 2010

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TABLE OF CONTENTS

1.	CERTIFICATION	3
2.	GENERAL INFORMATION.....	4
2.1	GENERAL DESCRIPTION OF EUT	4
2.2	GENERAL DESCRIPTION OF APPLIED STANDARDS	6
2.3	GENERAL INFORMATION OF THE SAR SYSTEM	7
2.4	TEST EQUIPMENT	10
2.5	GENERAL DESCRIPTION OF THE SPATIAL PEAK SAR EVALUATION	11
3.	DESCRIPTION OF SUPPORT UNITS	14
4.	DESCRIPTION OF TEST POSITION	15
4.1	DESCRIPTION OF TEST POSITION	15
4.1.1	TOUCH/CHEEK TEST POSITION	16
4.1.2	TILT TEST POSITION	17
4.1.3	BODY-WORN CONFIGURATION	17
5.	RECIPES FOR TISSUE SIMULATING LIQUIDS	18
6.	SYSTEM VALIDATION	24
6.1	TEST PROCEDURE	24
6.2	VALIDATION RESULTS	26
6.3	SYSTEM VALIDATION UNCERTAINTIES	27
7.	TEST RESULTS	28
7.1	TEST PROCEDURES	28
7.2	MEASURED SAR RESULTS	30
7.3	SAR LIMITS.....	32
8.	INFORMATION ON THE TESTING LABORATORIES	33
APPENDIX A: TEST DATA		
APPENDIX B: ADT SAR MEASUREMENT SYSTEM		
APPENDIX C: PHOTOGRAPHS OF SYSTEM VALIDATION		
APPENDIX D: SYSTEM CERTIFICATE & CALIBRATION		



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1. CERTIFICATION

PRODUCT: EDA (Enterprise Digital Assistant)
MODEL: MC75A6
BRAND: Symbol
APPLICANT: Symbol Technologies, Inc.
TESTED: Jun. 04 ~ Jun. 05, 2010
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: **FCC Part 2 (Section 2.1093)**
FCC OET Bulletin 65, Supplement C (01-01)
RSS-102

The above equipment (model: MC75A6) have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, 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 EMC characteristics under the conditions specified in this report.

PREPARED BY : Pettie Chen , **DATE** : Jun. 14, 2010
Pettie Chen / Specialist

TECHNICAL ACCEPTANCE : Mason Chang , **DATE** : Jun. 14, 2010
Responsible for RF Mason Chang / Engineer

APPROVED BY : Gary Chang , **DATE** : Jun. 14, 2010
Gary Chang / Assistant Manager

REVISED VERSION	REVISED DATE	DESCRIPTION
Ver. 1	Jun. 09, 2010	Modified the general information
Ver. 2	Jun. 14, 2010	Modified the type error
Ver. 3	Jun. 14, 2010	Modified the description about test mode and test report



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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

EUT	EDA (Enterprise Digital Assistant)
MODEL NO.	MC75A6
FCC ID	H9PMC75A6
POWER SUPPLY	3.7Vdc (Li-ion battery) 5.4Vdc (Adapter)
CLASSIFICATION	Portable device, production unit
MODULATION TYPE	WLAN 802.11b : CCK, DQPSK, DBPSK WLAN 802.11g : 64QAM, 16QAM, QPSK, BPSK WLAN 802.11a : 64QAM, 16QAM, QPSK, BPSK Mobile : GMSK, 8PSK, BPSK
FREQUENCY RANGE	WLAN : 802.11b/g : 2412 ~ 2472MHz 802.11a : 5180 ~ 5320MHz, 5500 ~ 5700MHz Mobile : 824 ~ 849MHz, 1850 ~ 1910MHz
CHANNEL FREQUENCIES UNDER TEST AND ITS CONDUCTED OUTPUT POWER	802.11a : 8.0dBm / Ch64: 5320MHz 9.0dBm / Ch100: 5500MHz WCDMA 1900 : 23.2dBm / Ch 9262: 1852.4MHz 23.4dBm / Ch 9400: 1880.0MHz 23.1dBm / Ch 9538: 1907.6MHz
MAX. AVERAGE SAR (1g)	Head : 1.44W/kg
ANTENNA TYPE	WLAN 802.11a : inverted F antenna (Main) Planar inverted antenna (Aux.) Mobile : Monopole antenna
MAX. ANTENNA GAIN	WLAN : inverted F 2.4GHz: -4.39dBi 5GHz: 2.05dBi Planar inverted 2.4GHz: 2.31dBi 5GHz: 3.29dBi Mobile : 850MHz: -0.54 dBi 1900MHz: 1.28 dBi
DATA CABLE	Refer to NOTE as below
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Battery



NOTE:

- The EUT is an EDA (Enterprise Digital Assistant). The test data are separated into following test reports:

	REFERENCE REPORT
SAR test report-247 2.4G WLAN	SA981105L04
SAR test report-247 5G WLAN	
SAR test report-407 5G WLAN	SA981105L04-1
SAR test report-247 BLUETOOTH	SA981105L04-2
SAR test report-GSM 850 / WCDMA 850	SA981105L04-3
SAR test report-GSM 1900 / WCDMA 1900	
SAR collocated report-WLAN 802.11a + MOBILE	SA981105L04-4
SAR collocated report-simultaneously Voice and data mode	SA981105L04-5
SAR collocated report- simultaneously WLAN 802.11 a + Voice and data mode	SA981105L04-6
SAR supplement report-preliminary and worst case finding supplement data	SA981105L04-7

- The models identified as below are identical to each other except of the following options:

- Keypad: Numeric / QWERTY
- Barcode reader: 1D laser scanner / BB Imager

BRAND	MODEL	DESCRIPTION
Symbol	MC75A6	HSDPA 1D Numeric
Symbol	MC75A6	HSDPA 1D QWERTY
Symbol	MC75A6	HSDPA BB Numeric
Symbol	MC75A6	HSDPA BB QWERTY

- The EUT uses the following Li-ion batteries:

BATTERY 1 (1.5X)	
BRAND:	MOTOROLA
PART NUMBER:	82-71364-05 Rev D
RATING:	3.7Vdc, 3600mAh, 13.3Wh

BATTERY 2 (2.5X)	
BRAND:	MOTOROLA
PART NUMBER:	82-71364-06 Rev C
RATING:	3.7Vdc, 4800mAh, 17.7Wh

*The applicant defined the normal working voltage of the battery is from 3.7Vdc to 4.2Vdc.

*The EUT have been pre-tested and found "BB / QWERTY + 1.5X battery" was the worst case configuration for final test.

- The communicated functions of EUT listed as below:

		850MHz	1900MHz	With 802.11a/b/g + Bluetooth
2G	GSM	√	√	
	GPRS	√	√	
	E-GPRS	√	√	
3G	WCDMA	√	√	
	Release 5 HSDPA	√	√	



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5. The following accessories are for support units only.

PRODUCT	BRAND	MODEL	DESCRIPTION
RS232 charging cable	Motorola	25-102776-01R	1.2m non-shielded cable with one core
USB charging cable	Motorola	25-102775-01R	1.5m shielded cable with one core
Headset	Motorola	50-11300-050R	VR10 headset 0.8m non-shielded cable with one core
Power Supply Adaptor	Motorola	EADP-16BB A	I/P: 100-240Vac, 50-60Hz, 0.4A O/P: 5.4Vdc, 3A 1.8m non-shielded cable without core
Fabric holster	Motorola	SG-MC7521215-01R	Contain metal
Ridged holster	Motorola	SG-MC7011110-02R	Contain metal

6. Hardware version: EVT1A.

7. Software version: BSP_21.03.

8. IMEI Code: 35528203000001x to 35528203999999x (x=0~9)

9. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.2 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to the specifications of the manufacturer, this product must comply with the requirements of the following standards:

FCC 47 CFR Part 2 (2.1093)

FCC OET Bulletin 65, Supplement C (01- 01)

RSS-102

IEEE 1528-2003

All test items have been performed and recorded as per the above standards.



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2.3 GENERAL INFORMATION OF THE SAR SYSTEM

DASY5 (software 5.0 Build 125) 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 DASY5 software defined. The DASY5 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.

EX3DV3 ISOTROPIC E-FIELD PROBE

CONSTRUCTION	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
FREQUENCY	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
DIRECTIVITY	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
DYNAMIC RANGE	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
DIMENSIONS	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
APPLICATION	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

NOTE

1. The Probe parameters have been calibrated by the SPEAG. Please reference "APPENDIX D" for the Calibration Certification Report.
2. For frequencies above 800MHz, calibration in a rectangular wave-guide is used, because wave-guide size is manageable.
3. For frequencies below 800MHz, temperature transfer calibration is used because the wave-guide size becomes relatively large.



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TWIN SAM V4.0

CONSTRUCTION The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-2003, CENELEC 50361 and IEC 62209. 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 manually teaching three points with the robot.

SHELL THICKNESS 2 ± 0.2 mm

FILLING VOLUME Approx. 25 liters

DIMENSIONS Height: 810 mm; Length: 1000 mm; Width: 500 mm

SYSTEM VALIDATION KITS:

CONSTRUCTION Symmetrical dipole with 1/4 balun
Enables measurement of feedpoint impedance with NWA
Matched for use near flat phantoms filled with brain simulating solutions
Includes distance holder and tripod adaptor

CALIBRATION Calibrated SAR value for specified position and input power at the flat phantom in brain simulating solutions

FREQUENCY 835MHz, 1900MHz, 5200MHz, 5500MHz

RETURN LOSS > 20 dB at specified validation position

POWER CAPABILITY > 100 W ($f < 1\text{GHz}$); > 40 W ($f > 1\text{GHz}$)

OPTIONS Dipoles for other frequencies or solutions and other calibration conditions upon request



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DEVICE HOLDER FOR SAM TWIN PHANTOM

CONSTRUCTION The device holder for the GSM900/DCS1800/PCS1900 GSM/GPRS/CDMA Mobile Phone device is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered. The device holder for the portable device makes up of the polyethylene foam. The dielectric parameters of material close to the dielectric parameters of the air.

DATA ACQUISITION ELECTRONICS

CONSTRUCTION The data acquisition electronics (DAE3) consists of a highly sensitive electrometer grade preamplifier with auto-zeroing, a channel and gain-switching multiplex, a fast 16 bit AD converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The mechanical probe is mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection. The input impedance of the DAE3 box is 200M Ω ; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



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2.4 TEST EQUIPMENT

FOR SAR MEASUREMENT

ITEM	NAME	BRAND	TYPE	SERIES NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
1	SAM Phantom	S & P	QD000 P40 CA	TP-1485	NA	NA
2	E-Field Probe	S & P	EX3DV3	3504	Jan. 26, 2010	Jan. 25, 2011
3	DAE	S & P	DAE	510	Dec. 16, 2009	Dec. 15, 2010
4	Robot Positioner	Staubli Unimation	NA	NA	NA	NA
5	Validation Dipole	S & P	D1900V2	5d036	Feb. 23, 2010	Feb. 22, 2011
6		S & P	D5GHzV2	1018	Jan. 22, 2010	Jan. 21, 2011
7	Power Meter	Agilent	E4416A	GB41291763	Sep. 30, 2009	Sep. 29, 2010
8	Power Sensor	Agilent	E9327A	US40441181	Sep. 30, 2009	Sep. 29, 2010

NOTE: Before starting the measurement, all test equipment shall be warmed up for 30min.

FOR TISSUE PROPERTY

ITEM	NAME	BRAND	TYPE	SERIES NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
1	Network Analyzer	Agilent	E8358A	US41480538	Dec. 03, 2009	Dec. 02, 2010
2	Dielectric Probe	Agilent	85070D	US01440176	NA	NA

NOTE:

1. Before starting, all test equipment shall be warmed up for 30min.
2. The tolerance (k=1) specified by Agilent for general dielectric measurements, deriving from inaccuracies in the calibration data, analyzer drift, and random errors, are usually $\pm 2.5\%$ and $\pm 5\%$ for measured permittivity and conductivity, respectively. However, the tolerances for the conductivity is smaller for material with large loss tangents, i.e., less than $\pm 2.5\%$ (k=1). It can be substantially smaller if more accurate methods are applied.



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2.5 GENERAL DESCRIPTION OF THE SPATIAL PEAK SAR EVALUATION

The DASY5 post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the micro-volt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

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

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

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

V _i	=compensated signal of channel i	(i = x, y, z)
U _i	=input signal of channel i	(i = x, y, z)
Cf	=crest factor of exciting field	(DASY parameter)
dcp _i	=diode compression point	(DASY parameter)

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

$$\text{E-field probes: } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{Conv}F}}$$

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

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

Norm_i = sensor sensitivity of channel i $\mu\text{V}/(\text{V/m})^2$ for ($i = x, y, z$)
E-field Probes

$\text{Conv}F$ = sensitivity enhancement in solution

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

F = carrier frequency [GHz]

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

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

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

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

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

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

SAR = local specific absorption rate in mW/g

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

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

ρ = equivalent tissue density in g/cm³



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Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid. 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 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high-resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. The calculation of the averaged SAR within masses of 1 g and 10 g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). 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 5mm.



The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7 x 7 x 7 scans. The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30 x 30 x 30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume in a 1mm grid (42875 points). In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

3. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.
1	Universal Radio Communication Tester	R&S	CMU200	104484

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

4. DESCRIPTION OF TEST POSITION

4.1 DESCRIPTION OF TEST POSITION

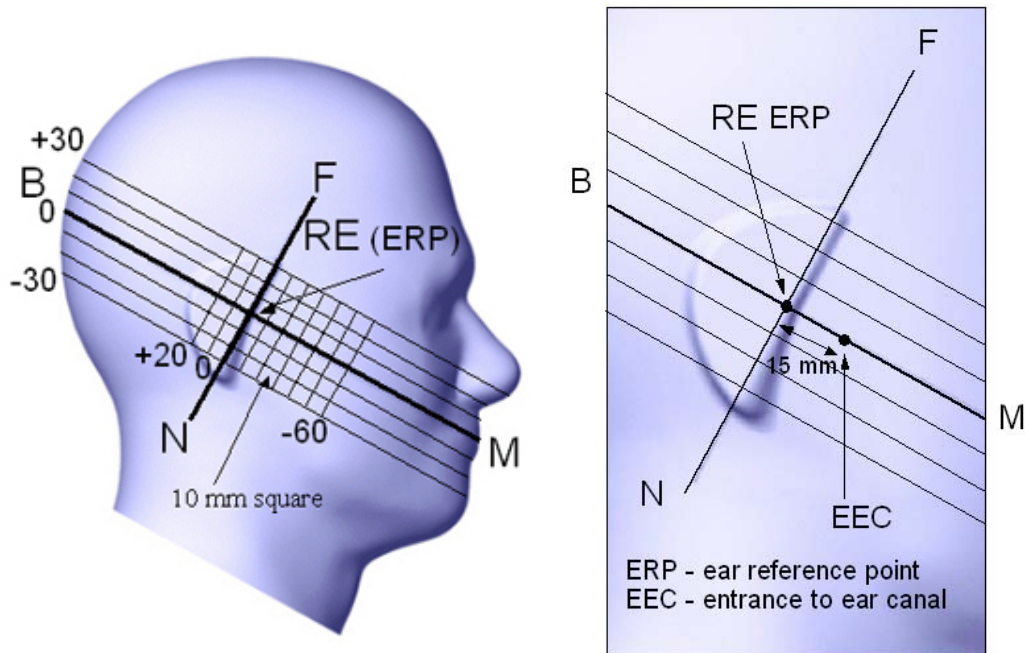


FIGURE 3.1

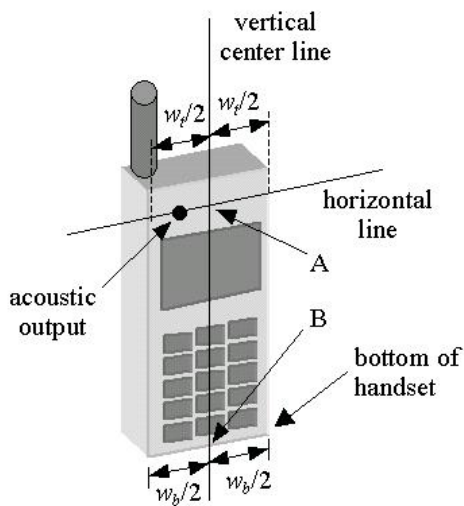


FIGURE 3.1a

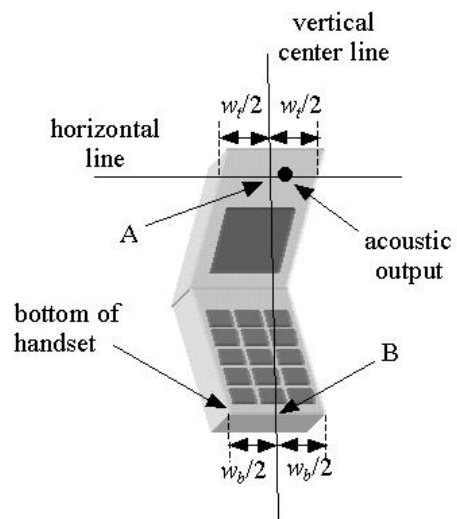
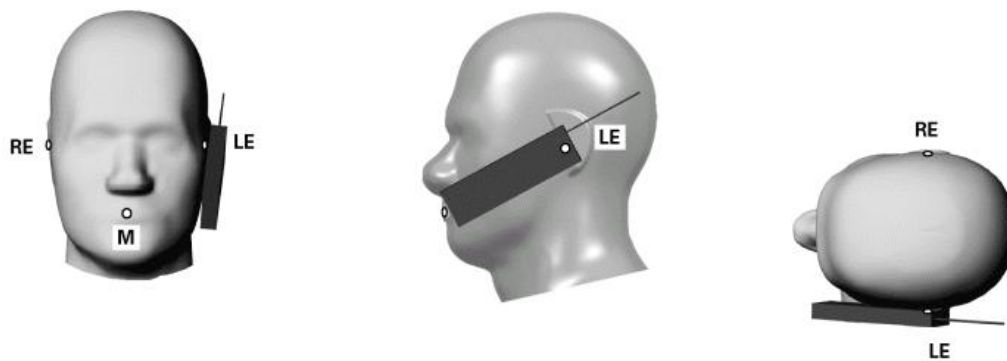


FIGURE 3.1b

4.1.1 TOUCH/CHEEK TEST POSITION

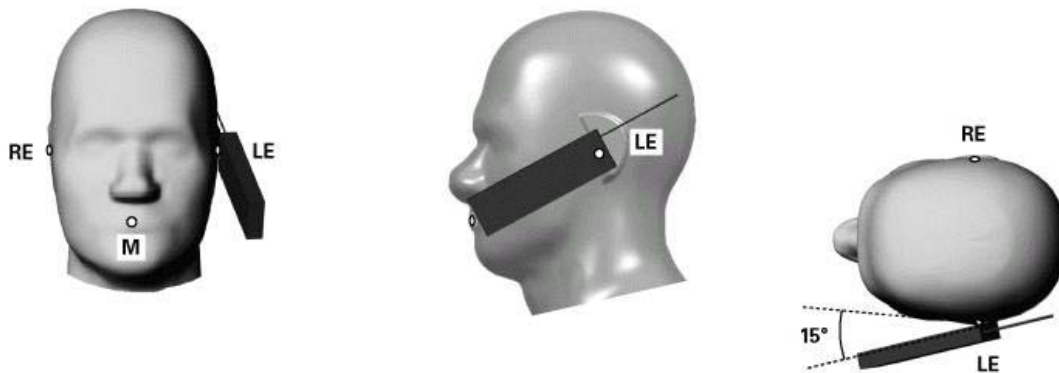
The head position in Figure 3.1, the ear reference points ERP are 15mm above entrance to ear canal along the B-M line. The line N-F (Neck-Front) is perpendicular to the B-M (Back Mouth) line. The handset device in Figure 3.1a and 3.1b, The vertical centerline pass through two points on the front side of handset: the midpoint of the width w_t of the handset at the level of the acoustic output (point A) and the midpoint of the width w_b of the bottom of the handset (point B). The vertical centerline is perpendicular to the horizontal line and pass through the center of the acoustic output. The point A touches the ERP and the vertical centerline of the handset is parallel to the B-M line. While maintaining the point A contact with the ear(ERP), rotate the handset about the line NF until any point on handset is in contact with the cheek of the phantom



TOUCH/CHEEK POSITION FIGURE

4.1.2 TILT TEST POSITION

Adjust the device in the cheek position. While maintaining a point of the handset contact in the ear, move the bottom of the handset away from the mouth by an angle of 15 degrees.



TILT POSITION FIGURE

4.1.3 BODY-WORN CONFIGURATION

The handset device attached the belt clip or the holster. The keypad face of the handset is against with the bottom of the flat phantom face and the bottom of the keypad face contact to the bottom of the flat phantom.

When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only accessory that dictates the closest spacing to the body must be tested.



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5. RECIPES FOR TISSUE SIMULATING LIQUIDS

For the measurement of the field distribution inside the SAM phantom, the phantom must be filled with 25 liters of tissue simulation liquid.

The following ingredients are used :

- **WATER-** Deionized water (pure H₂O), resistivity ≥ 16 M - as basis for the liquid
- **SUGAR-** Refined sugar in crystals, as available in food shops - to reduce relative permittivity
- **SALT-** Pure NaCl - to increase conductivity
- **CELLULOSE-** Hydroxyethyl-cellulose, medium viscosity (75-125 mPa.s, 2% in water, 20_C),
CAS # 54290 - to increase viscosity and to keep sugar in solution
- **PRESERVATIVE-** Preventol D-7 Bayer AG, D-51368 Leverkusen, CAS # 55965-84-9 - to prevent the spread of bacteria and molds
- **DGMBE-** Diethylenglycol-monobuthyl ether (DGMBE), Fluka Chemie GmbH, CAS # 112-34-5 - to reduce relative permittivity

THE INFORMATION FOR 5GHz SIMULATING LIQUID

The 5GHz liquids was purchased from SPEAG.

Body liquid model: HSL 5800, P/N: SL AAH 5800 AA

Head liquid model: M 5800, P/N: SL AAM 580 AD

5GHz liquids contain the following ingredients:

Water 64 - 78%

Mineral Oil 11 - 18%

Emulsifiers 9 - 15%

Additives and Salt 2 - 3%



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THE RECIPES FOR 1900MHz SIMULATING LIQUID TABLE

INGREDIENT	HEAD SIMULATING LIQUID 1900MHz (HSL-1900)	MUSCLE SIMULATING LIQUID 1900MHz (MSL-1900)
Water	55.24%	70.16%
DGMBE	44.45%	29.44%
Salt	0.306%	00.39%
Dielectric Parameters at 22°C	f= 1900MHz $\epsilon = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\%$ S/m	f= 1900MHz $\epsilon = 53.3 \pm 5\%$ $\sigma = 1.52 \pm 5\%$ S/m



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Testing the liquids using the Agilent Network Analyzer E8358A and Agilent Dielectric Probe Kit 85070D. The testing procedure is following as

1. Turn Network Analyzer on and allow at least 30 min. warm up.
2. Mount dielectric probe kit so that interconnecting cable to Network Analyzer will not be moved during measurements or calibration.
3. Pour de-ionized water and measure water temperature ($\pm 1^\circ$).
4. Set water temperature in Agilent-Software (Calibration Setup).
5. Perform calibration.
6. Validate calibration with dielectric material of known properties (e.g. polished ceramic slab with $>8\text{mm}$ thickness $\epsilon' = 10.0$, $\epsilon'' = 0.0$). If measured parameters do not fit within tolerance, repeat calibration (± 0.2 for ϵ' : ± 0.1 for ϵ'').
7. Conductivity can be calculated from ϵ'' by $\sigma = \omega \epsilon_0 \epsilon'' = \epsilon'' f [\text{GHz}] / 18$.
8. Measure liquid shortly after calibration. Repeat calibration every hour.
9. Stir the liquid to be measured. Take a sample ($\sim 50\text{ml}$) with a syringe from the center of the liquid container.
10. Pour the liquid into a small glass flask. Hold the syringe at the bottom of the flask to avoid air bubbles.
11. Put the dielectric probe in the glass flask. Check that there are no air bubbles in front of the opening in the dielectric probe kit.
12. Perform measurements.
13. Adjust medium parameters in DASY5 for the frequencies necessary for the measurements ('Setup Config', select medium (e.g. Brain 900 MHz) and press 'Option'-button.

Select the current medium for the frequency of the validation (e.g. Setup Medium Brain 900 MHz).



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FOR PCS 1900 & WCDMA 1900 BAND SIMULATING LIQUID

LIQUID TYPE		HSL-1900		
SIMULATING LIQUID TEMP.		22.6		
TEST DATE		Jun. 04, 2010		
TESTED BY		James Fan		
FREQ. (MHz)	LIQUID PARAMETER	STANDARD VALUE	MEASUREMENT VALUE	ERROR PERCENTAGE (%)
1852.4	Permittivity (ϵ)	40.0	40.9	2.25
1880.0		40.0	40.9	2.25
1900.0		40.0	40.9	2.25
1907.6		40.0	41.0	2.50
1852.4	Conductivity (σ) S/m	1.40	1.38	-1.43
1880.0		1.40	1.41	0.71
1900.0		1.40	1.43	2.14
1907.6		1.40	1.44	2.14



A D T

FOR PCS 1900 & WCDMA 1900 BAND SIMULATING LIQUID

LIQUID TYPE		HSL-1900		
SIMULATING LIQUID TEMP.		22.7		
TEST DATE		Jun. 05, 2010		
TESTED BY		James Fan		
FREQ. (MHz)	LIQUID PARAMETER	STANDARD VALUE	MEASUREMENT VALUE	ERROR PERCENTAGE (%)
1852.4	Permittivity (ϵ)	40.0	40.9	2.25
1880.0		40.0	40.9	2.25
1900.0		40.0	40.9	2.25
1907.6		40.0	41.0	2.50
1852.4	Conductivity (σ) S/m	1.40	1.38	-1.43
1880.0		1.40	1.41	0.71
1900.0		1.40	1.43	2.14
1907.6		1.40	1.43	2.14



A D T

FOR WLAN 5GHz BAND SIMULATING LIQUID

LIQUID TYPE		HSL-5800		
SIMULATING LIQUID TEMP.		22.8		
TEST DATE		Jun. 04, 2010		
TESTED BY		James Fan		
FREQ. (MHz)	LIQUID PARAMETER	STANDARD VALUE	MEASUREMENT VALUE	ERROR PERCENTAGE (%)
5200	Permittivity (ϵ)	36.0	36.7	1.94
5320		35.8	36.5	1.96
5500		35.6	36.2	1.69
5200	Conductivity (σ) S/m	4.66	4.65	-0.21
5320		4.78	4.79	0.21
5500		4.96	5.01	1.01

LIQUID TYPE		HSL-5800		
SIMULATING LIQUID TEMP.		22.7		
TEST DATE		Jun. 05, 2010		
TESTED BY		James Fan		
FREQ. (MHz)	LIQUID PARAMETER	STANDARD VALUE	MEASUREMENT VALUE	ERROR PERCENTAGE (%)
5200	Permittivity (ϵ)	36.0	36.7	1.94
5320		35.8	36.6	2.23
5500		35.6	36.3	1.97
5200	Conductivity (σ) S/m	4.66	4.68	0.43
5320		4.78	4.80	0.42
5500		4.96	5.02	1.21



A D T

6. SYSTEM VALIDATION

The system validation was performed in the flat phantom with equipment listed in the following table. Since the SAR value is calculated from the measured electric field, dielectric constant and conductivity of the body tissue and the SAR is proportional to the square of the electric field. So, the SAR value will be also proportional to the RF power input to the system validation dipole under the same test environment. In our system validation test, 250mW RF input power was used.

6.1 TEST PROCEDURE

Before you start the system performance check, need only to tell the system with which components (probe, medium, and device) are performing the system performance check; the system will take care of all parameters. The dipole must be placed beneath the flat phantom section of the SAM Twin Phantom with the correct distance holder in place. The distance holder should touch the phantom surface with a light pressure at the reference marking (little cross) and be oriented parallel to the long side of the phantom. Accurate positioning is not necessary, since the system will search for the peak SAR location, except that the dipole arms should be parallel to the surface. The device holder for the EUT can be left in place but should be rotated away from the dipole.

1.The "Power Reference Measurement" and "Power Drift Measurement" jobs are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the amplifier output power. If it is too high (above ± 0.1 dB), the system performance check should be repeated; some amplifiers have very high drift during warm-up. A stable amplifier gives drift results in the DASY system below ± 0.02 dB.

2.The "Surface Check" job tests the optical surface detection system of the DASY system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above ± 0.1 mm). In that case it is better to abort the system performance check and stir the liquid.



3. The "Area Scan" job measures the SAR above the dipole on a plane parallel to the surface. It is used to locate the approximate location of the peak SAR. The proposed scan uses large grid spacing for faster measurement; due to the symmetric field, the peak detection is reliable. If a finer graphic is desired, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result.

4. The "Zoom Scan" job measures the field in a volume around the peak SAR value assessed in the previous "Area Scan" job (for more information see the application note on SAR evaluation).

About the validation dipole positioning uncertainty, the constant and low loss dielectric spacer is used to establish the correct distance between the top surface of the dipole and the bottom surface of the phantom, the error component introduced by the uncertainty of the distance between the liquid (i.e., phantom shell) and the validation dipole in the DASYS system is less than ± 0.1 mm.

$$SAR_{tolerance} [\%] = 100 \times \left(\frac{(a + d)^2}{a^2} - 1 \right)$$

As the closest distance is 10mm, the resulting tolerance $SAR_{tolerance} [\%]$ is $< 2\%$.



6.2 VALIDATION RESULTS

SYSTEM VALIDATION TEST OF SIMULATING LIQUID					
FREQUENCY (MHz)	REQUIRED SAR (mW/g)	MEASURED SAR (mW/g)	DEVIATION (%)	SEPARATION DISTANCE	TESTED DATE
HSL 1900	10.00 (1g)	10.40	4.00	10mm	Jun. 04, 2010
HSL 1900	10.00 (1g)	10.35	3.50	10mm	Jun. 05, 2010
HSL 5200	7.95 (1g)	8.29	4.28	10mm	Jun. 04, 2010
HSL 5200	7.95 (1g)	8.32	4.65	10mm	Jun. 05, 2010
HSL 5500	8.46 (1g)	8.70	2.84	10mm	Jun. 04, 2010
HSL 5500	8.46 (1g)	8.78	3.78	10mm	Jun. 05, 2010
TESTED BY	James Fan				

NOTE: Please see Appendix for the photo of system validation test.



6.3 SYSTEM VALIDATION UNCERTAINTIES

In the table below, the system validation uncertainty with respect to the analytically assessed SAR value of a dipole source as given in the IEEE 1528 standard is given. This uncertainty is smaller than the expected uncertainty for mobile phone measurements due to the simplified setup and the symmetric field distribution.

Error Description	Tolerance (±%)	Probability Distribution	Divisor	(C _i)		Standard Uncertainty (±%)		(v _i)
				(1g)	(10g)	(1g)	(10g)	
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	∞
Axial Isotropy	0.50	Rectangular	√3	0.7	0.7	0.20	0.20	∞
Hemispherical Isotropy	2.60	Rectangular	√3	0.7	0.7	1.05	1.05	∞
Boundary effects	2.00	Rectangular	√3	1	1	1.15	1.15	∞
Linearity	0.60	Rectangular	√3	1	1	0.35	0.35	∞
System Detection Limits	1.00	Rectangular	√3	1	1	0.58	0.58	∞
Readout Electronics	0.30	Normal	1	1	1	0.30	0.30	∞
Response Time	0.80	Rectangular	√3	1	1	0.46	0.46	∞
Integration Time	2.60	Rectangular	√3	1	1	1.50	1.50	∞
RF Ambient Noise	3.00	Rectangular	√3	1	1	1.73	1.73	∞
RF Ambient Reflections	3.00	Rectangular	√3	1	1	1.73	1.73	∞
Probe Positioner	0.80	Rectangular	√3	1	1	0.46	0.46	∞
Probe Positioning	9.90	Rectangular	√3	1	1	5.72	5.72	∞
Max. SAR Eval.	4.00	Rectangular	√3	1	1	2.31	2.31	∞
Dipole Related								
Dipole Axis to Liquid Distance	2.00	Rectangular	√3	1	1	1.15	1.15	145
Input Power Drift	5.00	Rectangular	√3	1	1	2.89	2.89	∞
Phantom and Tissue parameters								
Phantom Uncertainty	4.00	Rectangular	√3	1	1	2.31	2.31	∞
Liquid Conductivity (target)	5.00	Rectangular	√3	0.64	0.43	1.85	1.24	∞
Liquid Conductivity (measurement)	2.36	Normal	1	0.64	0.43	1.51	1.01	∞
Liquid Permittivity (target)	5.00	Rectangular	√3	0.6	0.49	1.73	1.41	∞
Liquid Permittivity (measurement)	3.01	Normal	1	0.6	0.49	1.81	1.47	∞
Combined Standard Uncertainty						10.93	10.69	
Coverage Factor for 95%						Kp=2		
Expanded Uncertainty (K=2)						21.87	21.39	

NOTE: About the system validation uncertainty assessment, please reference the section 7.

7. TEST RESULTS

7.1 TEST PROCEDURES

The EUT (EDA (Enterprise Digital Assistant)) makes a phone call to the communication simulator station. Establish the simulation communication configuration rather the actual communication. Then the EUT could continuous the transmission mode. Adjust the PCL of the base station could controlled the EUT to transmitted the maximum output power. The base station also could control the transmission channel. The SAR value was calculated via the 3D spline interpolation algorithm that has been implemented in the software of DASYS SAR measurement system manufactured and calibrated by SPEAG. According to the IEEE 1528 / EN 50361, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

Zoom scan:

- Power reference measurement
- Verification of the power reference measurement
- Area scan
- Zoom scan
- Power reference measurement

The area scan with 15mm x 15mm grid was performed for the highest spatial SAR location. Consist of 11 x 13 points while the scan size is the 150mm x 180mm. The zoom scan with 30mm x 30mm x 30mm volume was performed for SAR value averaged over 1g and 10g spatial volumes.

In the zoom scan, the distance between the measurement point at the probe sensor location (geometric center behind the probe tip) and the phantom surface is 4.0 mm and maintained at a constant distance of ± 1.0 mm during a zoom scan to determine peak SAR locations. The distance is 4mm between the first measurement point and the bottom surface of the phantom. The secondary measurement point to the bottom surface of the phantom is with 9mm separation distance. The cube size is 7 x 7 x 7 points consist of 343 points and the grid space is 5mm.



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The measurement time is 0.5 s at each point of the zoom scan. The probe boundary effect compensation shall be applied during the SAR test. Because of the tip of the probe to the Phantom surface separated distances are longer than half a tip probe diameter.

In the area scan, the separation distance is 4mm between the each measurement point and the phantom surface. The scan size shall be included the transmission portion of the EUT. The measurement time is the same as the zoom scan. At last the reference power drift shall be less than $\pm 5\%$.

Volume scan:

- Power reference measurement
- Verification of the power reference measurement
- Volume scan
- Power reference measurement

Volume Scans are used to assess peak SAR and averaged SAR measurement in largely extended 3-dimensional volumes within any phantom. This measurement does not need any previous area scan

In the volume scan, the distance between the measurement point at the probe sensor location (geometric center behind the probe tip) and the phantom surface is 2.5mm. The scan size is 18 x 16 x 9 points and the grid space is 4mm.

The measurement time is 0.5s at each point of the volume scan. The probe boundary effect compensation shall be applied during the SAR test. Because of the tip of the probe to the Phantom surface separated distances are longer than half a tip probe diameter

Multiband Data Extractions

In order to extract and process measurements within different frequency bands, the SEMCAD X Postprocessor allows the user to combine and subsequently superpose these measurement data using the Tools menu. Using combined Multi Band Averaged SAR of tools menu to get the multiband SAR value.



7.2 MEASURED SAR RESULTS

Following tests are requested by the commission in Tracking Number 974053 (Applicant test reduction PBA) for demonstrating that the selected EUT model, BB Qwerty / 1.5x Battery, is indeed the worst case model. The test data below show that multiband SAR of rest 3 models at worst configuration found in BB Qwerty /1.5x Battery is lower than the fully tested model and this concluded that the selected model is conservative.

SAR (1g)		
LEFT HEAD		
TILT POSITION		
	Zoom scan SAR Value	Volume scan SAR Value
WCDMA 1900		
Configuration: 1D Numeric / 1.5x Battery		
Ch 9262: 1852.4MHz	1.30	1.29
Ch 9400: 1880.0MHz	1.29	1.29
Ch 9538: 1907.6MHz	1.17	1.17
WCDMA 1900		
Configuration: 1D QWERTY / 1.5x Battery		
Ch 9262: 1852.4MHz	1.24	1.24
Ch 9400: 1880.0MHz	1.29	1.30
Ch 9538: 1907.6MHz	1.20	1.21
WCDMA 1900		
Configuration: BB Numeric / 1.5x Battery		
Ch 9262: 1852.4MHz	1.27	1.29
Ch 9400: 1880.0MHz	1.29	1.33
Ch 9538: 1907.6MHz	1.31	1.32
802.11a		
Configuration: 1D Numeric / 1.5x Battery		
Ch 64: 5320MHz	0.434	0.437
Ch 100: 5500MHz	0.357	0.347
802.11a		
Configuration: 1D QWERTY / 1.5x Battery		
Ch 64: 5320MHz	0.447	0.430
Ch 100: 5500MHz	0.359	0.356
802.11a		
Configuration: BB Numeric / 1.5x Battery		
Ch 64: 5320MHz	0.568	0.562
Ch 100: 5500MHz	0.414	0.420

NOTE:

1. In this testing, the limit for General Population Spatial Peak averaged over 1g, 1.6W/kg, is applied.
2. Please see the Appendix A for the data.
3. The variation of the EUT conducted power measured before and after SAR testing should not over 5%.
4. Temperature of Liquid is 22±1°C



Multiband SAR

Multiband SAR (1g)	
LEFT HEAD	
TILT POSITION	
WCDMA 1900 + 802.11a	Configuration: 1D Numeric / 1.5x Battery
Ch 9262: 1852.4MHz + Ch 64: 5320MHz	1.39
Ch 9262: 1852.4MHz + Ch 100: 5500MHz	1.34
Ch 9400: 1880.0MHz + Ch 64: 5320MHz	1.37
Ch 9400: 1880.0MHz + Ch 100: 5500MHz	1.33
Ch 9538: 1907.6MHz + Ch 64: 5320MHz	1.24
Ch 9538: 1907.6MHz + Ch 100: 5500MHz	1.21
WCDMA 1900 + 802.11a	Configuration: 1D QWERTY / 1.5x Battery
Ch 9262: 1852.4MHz + Ch 64: 5320MHz	1.26
Ch 9262: 1852.4MHz + Ch 100: 5500MHz	1.26
Ch 9400: 1880.0MHz + Ch 64: 5320MHz	1.31
Ch 9400: 1880.0MHz + Ch 100: 5500MHz	1.32
Ch 9538: 1907.6MHz + Ch 64: 5320MHz	1.22
Ch 9538: 1907.6MHz + Ch 100: 5500MHz	1.23
WCDMA 1900 + 802.11a	Configuration: BB Numeric / 1.5x Battery
Ch 9262: 1852.4MHz + Ch 64: 5320MHz	1.39
Ch 9262: 1852.4MHz + Ch 100: 5500MHz	1.35
Ch 9400: 1880.0MHz + Ch 64: 5320MHz	1.43
Ch 9400: 1880.0MHz + Ch 100: 5500MHz	1.39
Ch 9538: 1907.6MHz + Ch 64: 5320MHz	1.44
Ch 9538: 1907.6MHz + Ch 100: 5500MHz	1.39



7.3 SAR LIMITS

HUMAN EXPOSURE	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / controlled Exposure Environment)
Spatial Average (whole body)	0.08	0.4
Spatial Peak (averaged over 1 g)	1.6	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

NOTE:

1. This limits accord to 47 CFR 2.1093 – Safety Limit.
2. The EUT property been complied with the partial body exposure limit under the general population environment.



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8. 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.

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

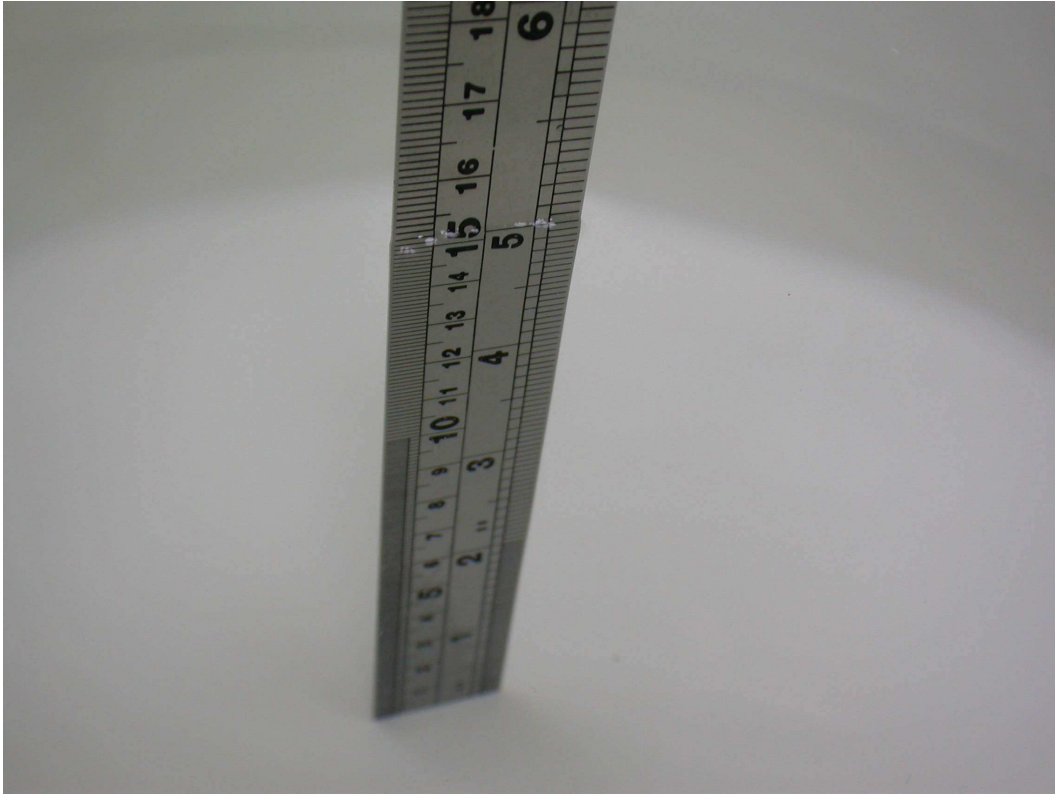
Web Site: www.adt.com.tw

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

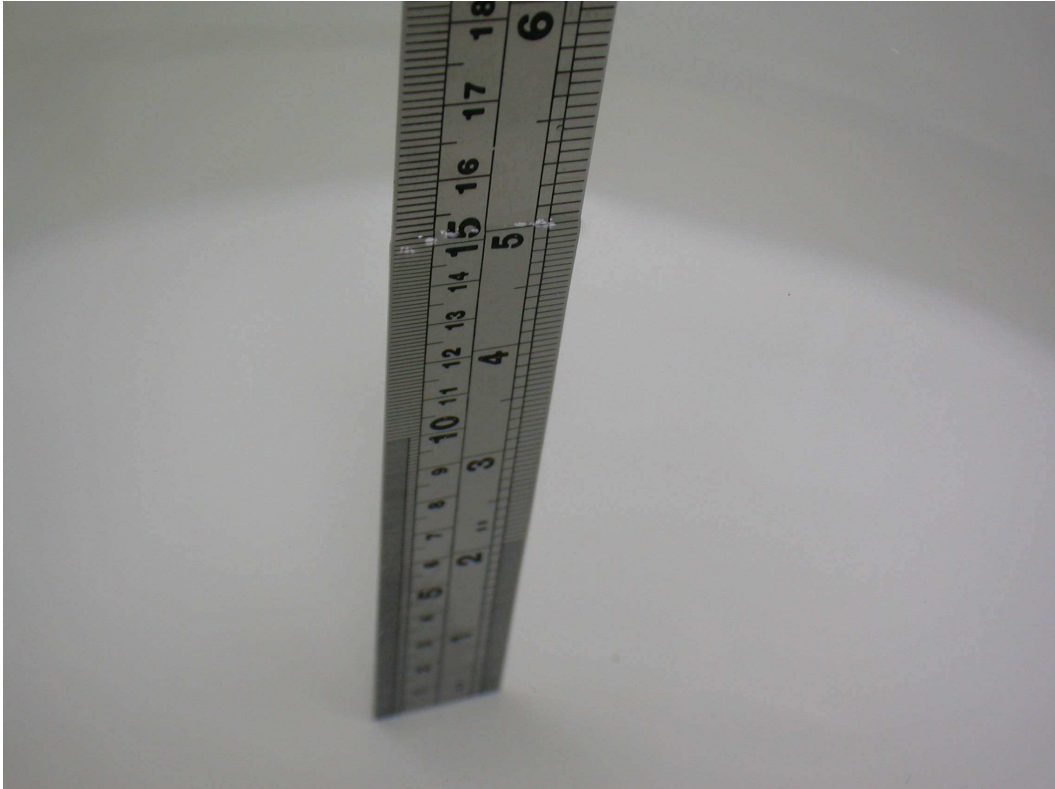
APPENDIX A: TEST DATA for Zoom scan SAR

Liquid Level Photo

Tissue HSL1900MHz D=152mm



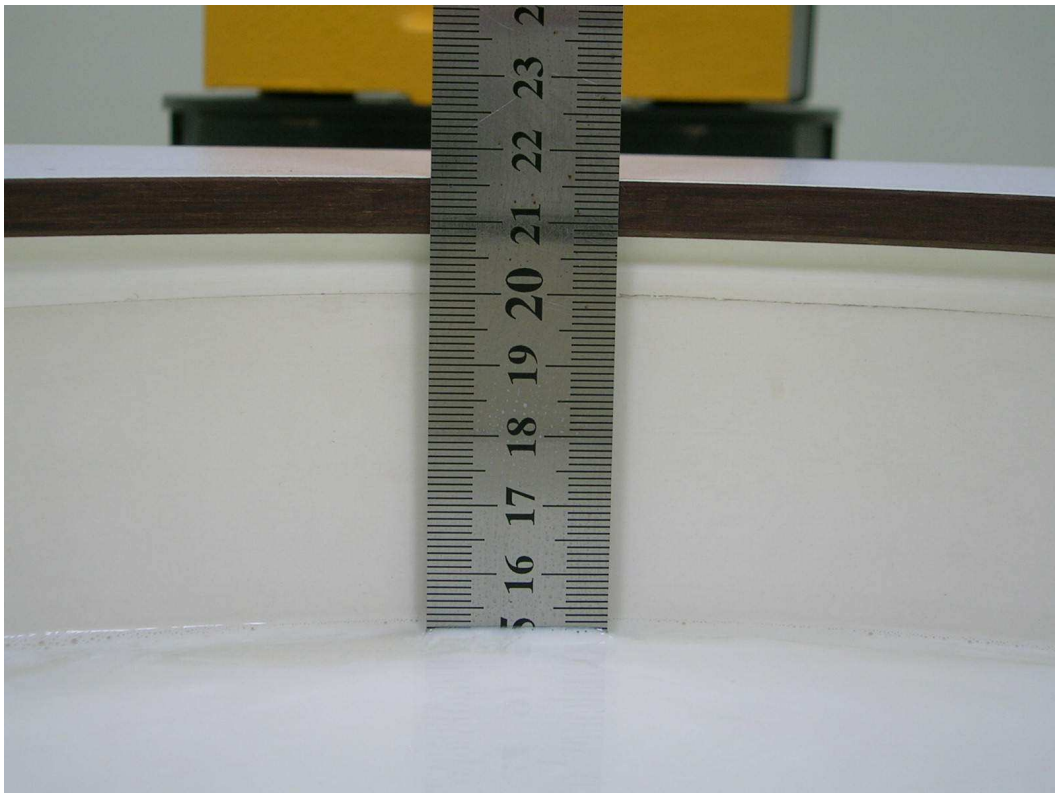
Tissue HSL1900MHz D=150mm



Tissue HSL5500MHz D=151mm



Tissue HSL5500MHz D=150mm



Test Laboratory: Bureau Veritas ADT

M01-Left Head Tilt WCDMA1900 ch9262 / 1D / 1.5X battery / numeric

DUT: EDA ; Type: MC75A6

Communication System: WCDMA1900 ; Frequency: 1852.4 MHz ; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- ; SEMCAD X Version 14.0 Build 61

Configuration/ch9262 zoom/Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.41 mW/g

Configuration/ch9262 zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5\text{mm}$,

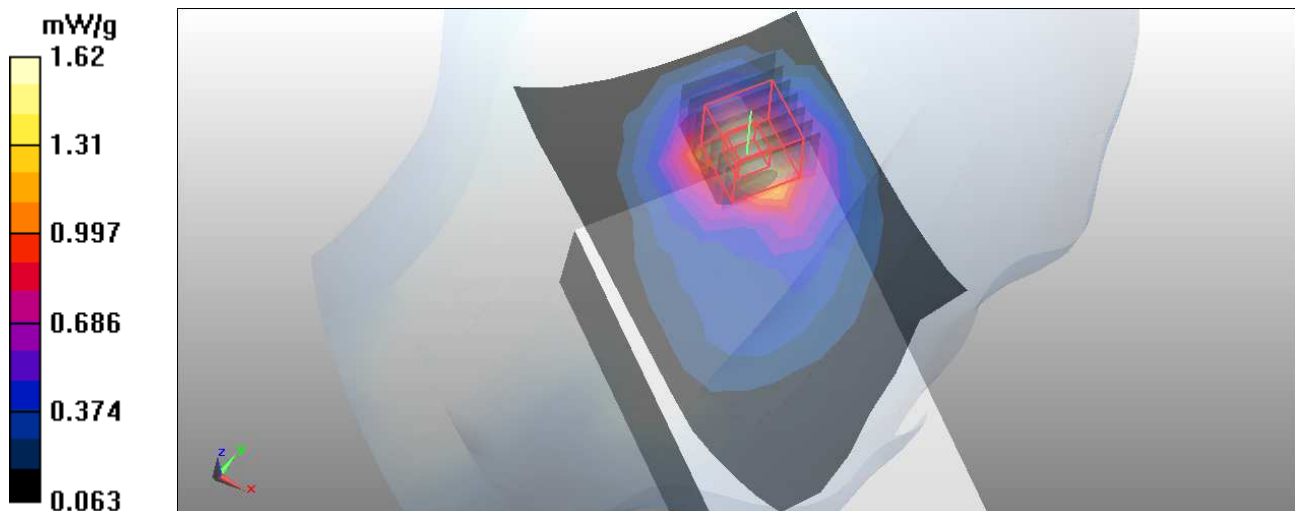
$dy=5\text{mm}$, $dz=3\text{mm}$

Reference Value = 22.3 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.734 mW/g

Maximum value of SAR (measured) = 1.62 mW/g



Test Laboratory: Bureau Veritas ADT

M02-Left Head Tilt WCDMA1900 ch9400 / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

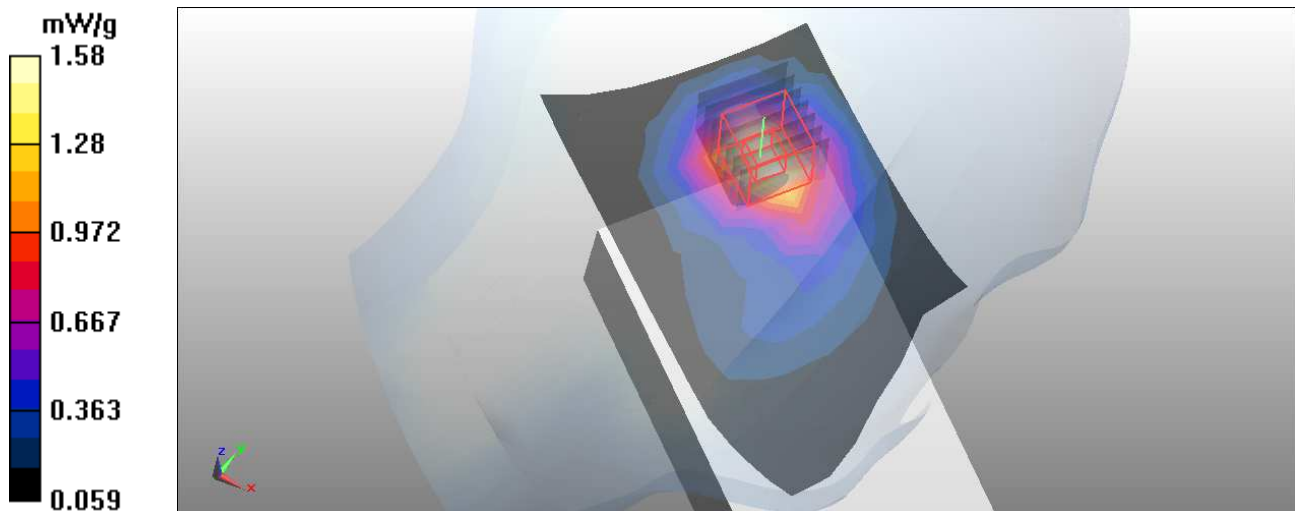
Configuration/ch9400 zoom/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.45 mW/g**Configuration/ch9400 zoom/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 21.3 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.735 mW/g

Maximum value of SAR (measured) = 1.58 mW/g



Test Laboratory: Bureau Veritas ADT

M03-Left Head Tilt WCDMA1900 ch9538 / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1907.6 MHz ; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

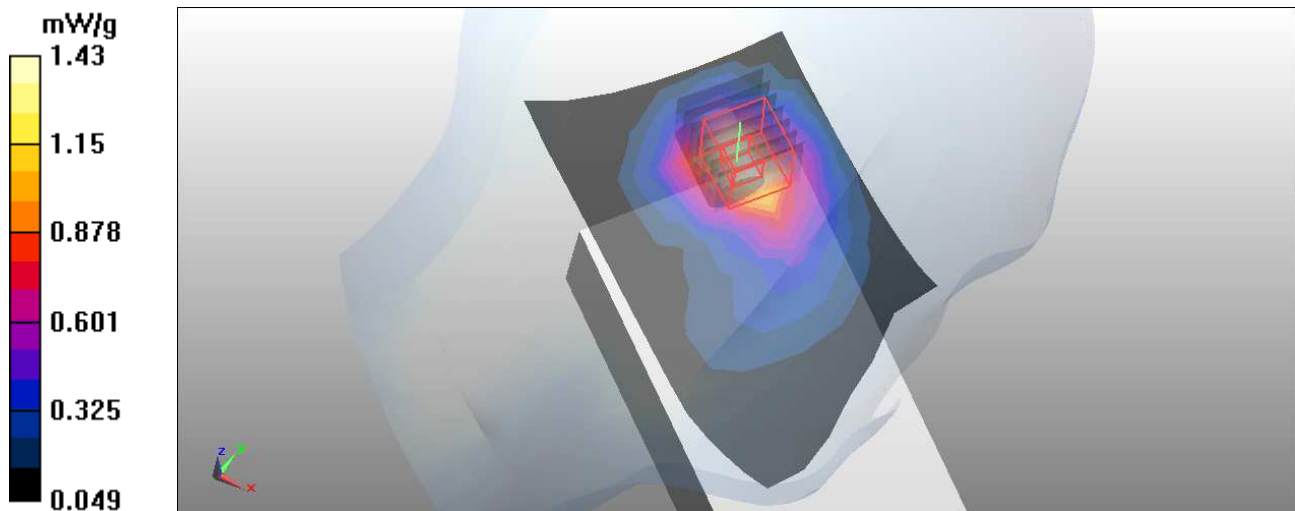
Configuration/ch9538 zoom/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.32 mW/g**Configuration/ch9538 zoom/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 19.5 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.666 mW/g

Maximum value of SAR (measured) = 1.43 mW/g



Test Laboratory: Bureau Veritas ADT

M04-Left Head Tilt WCDMA1900-Ch9262 / 1D / 1.5X battery / qwerty

DUT: EDA ; Type: MC75A6

Communication System: WCDMA1900 ; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/ch9262 zoom/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.43 mW/g

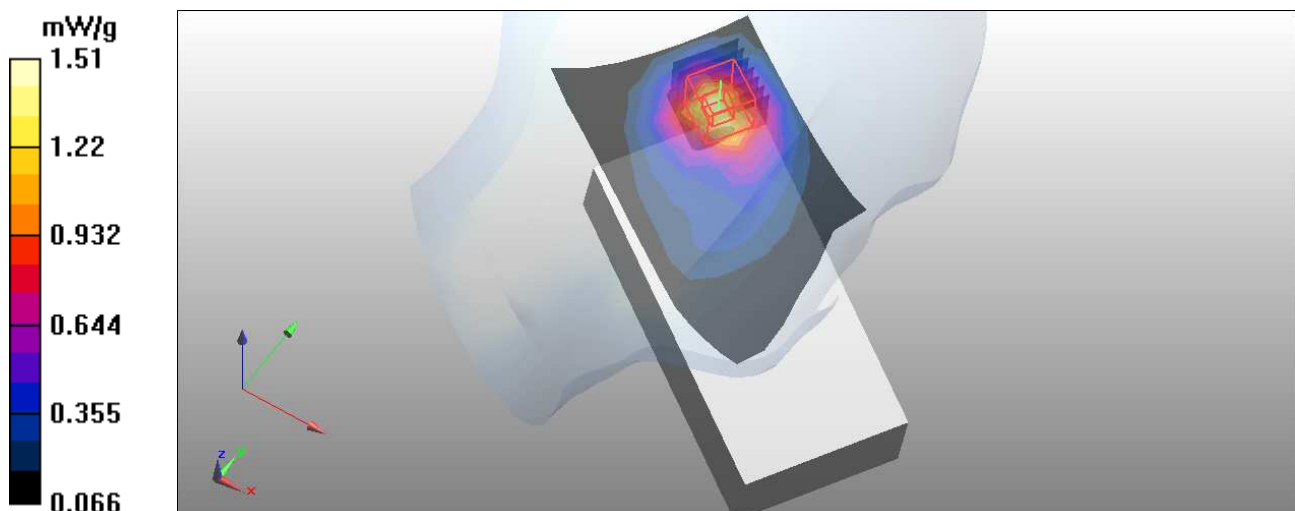
Configuration/ch9262 zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 20.4 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.714 mW/g

Maximum value of SAR (measured) = 1.51 mW/g



Test Laboratory: Bureau Veritas ADT

M05-Left Head Tilt WCDMA1900 Ch9400 / 1D / 1.5X battery / qwerty

DUT: EDA ; Type: MC75A6

Communication System: WCDMA1900 ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/ch9400 zoom/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.47 mW/g

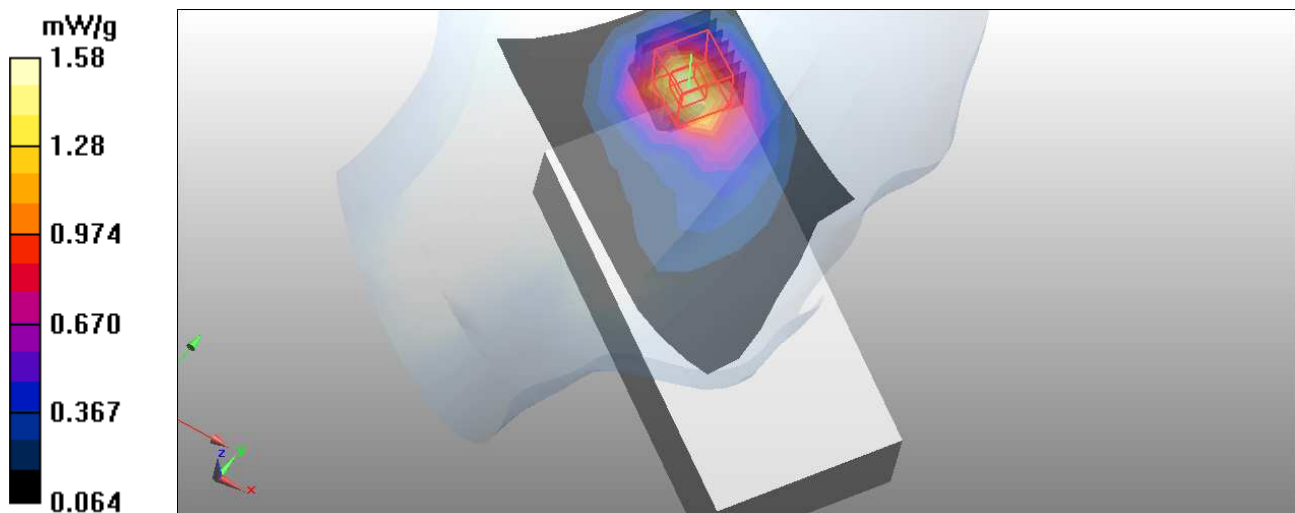
Configuration/ch9400 zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 19.1 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.744 mW/g

Maximum value of SAR (measured) = 1.58 mW/g



Test Laboratory: Bureau Veritas ADT

M06-Left Head Tilt WCDMA1900 Ch9538 / 1D / 1.5X battery / qwerty

DUT: EDA ; Type: MC75A6

Communication System: WCDMA1900 ; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 41$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/ch9538 zoom/Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Configuration/ch9538 zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5\text{mm}$,

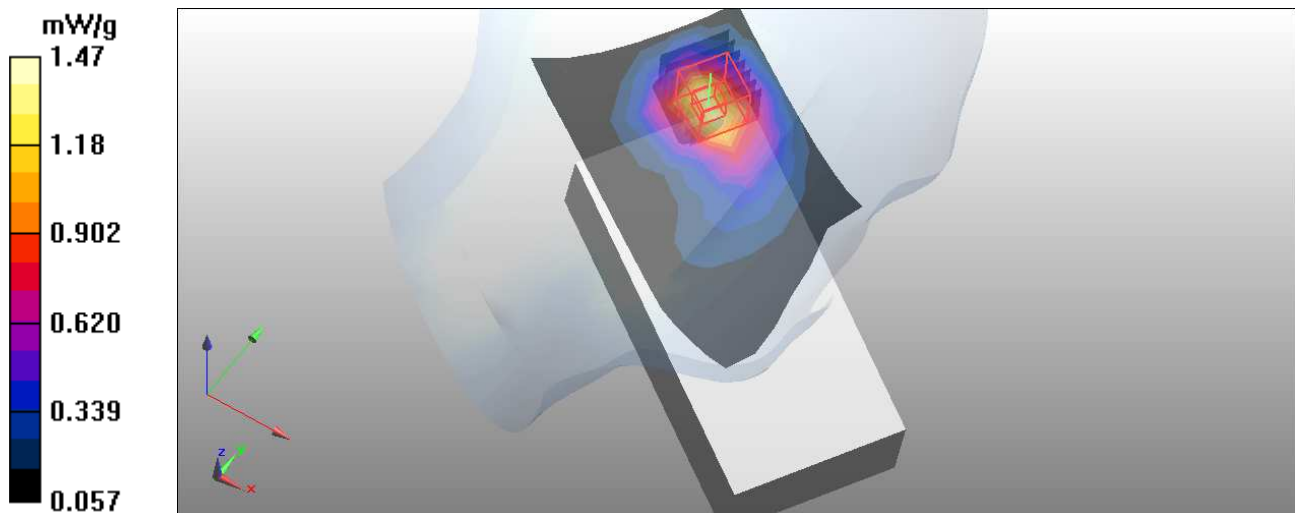
$dy=5\text{mm}$, $dz=3\text{mm}$

Reference Value = 18 V/m; Power Drift = 0.157 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.687 mW/g

Maximum value of SAR (measured) = 1.47 mW/g



Test Laboratory: Bureau Veritas ADT

M07-Left Head Tilt WCDMA1900 Ch9262 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

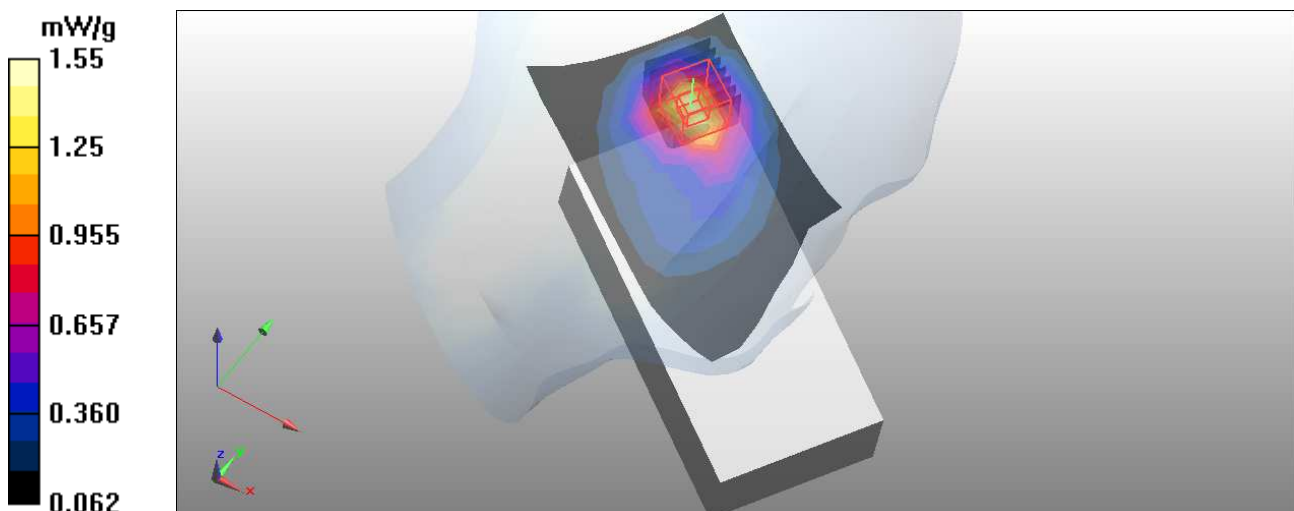
Configuration/ch9262 zoom/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.43 mW/g**Configuration/ch9262 zoom/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 19.4 V/m; Power Drift = 0.103 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.722 mW/g

Maximum value of SAR (measured) = 1.55 mW/g



Test Laboratory: Bureau Veritas ADT

M08-Left Head Tilt WCDMA1900 Ch9400 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/ch9400 zoom/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.51 mW/g

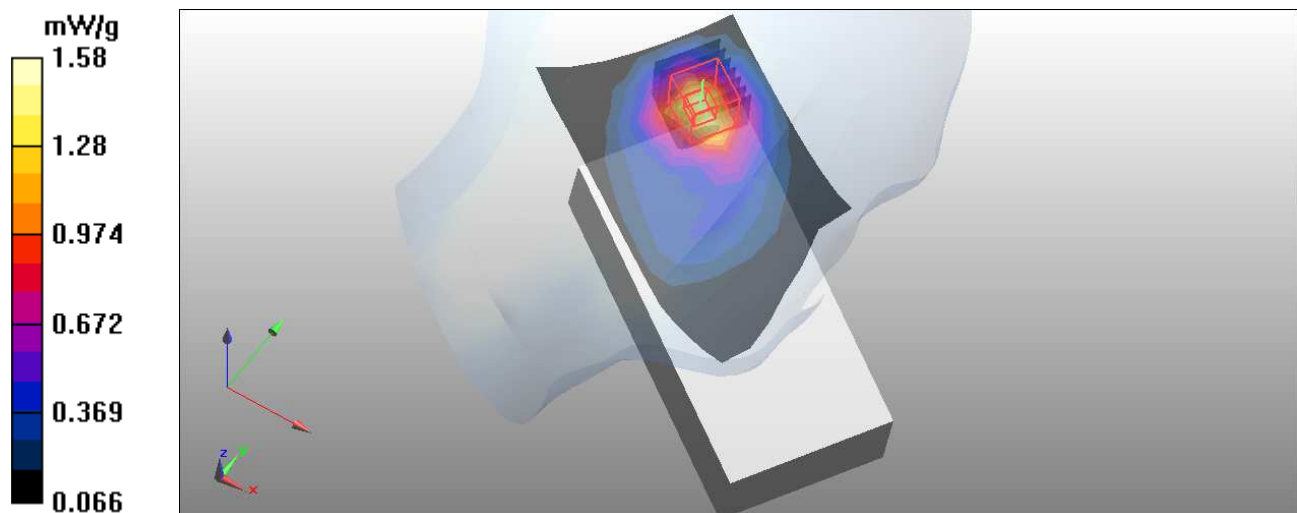
Configuration/ch9400 zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 20.4 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.737 mW/g

Maximum value of SAR (measured) = 1.58 mW/g



Test Laboratory: Bureau Veritas ADT

M09-Left Head Tilt WCDMA1900 Ch9538 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/ch9538 zoom/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.53 mW/g

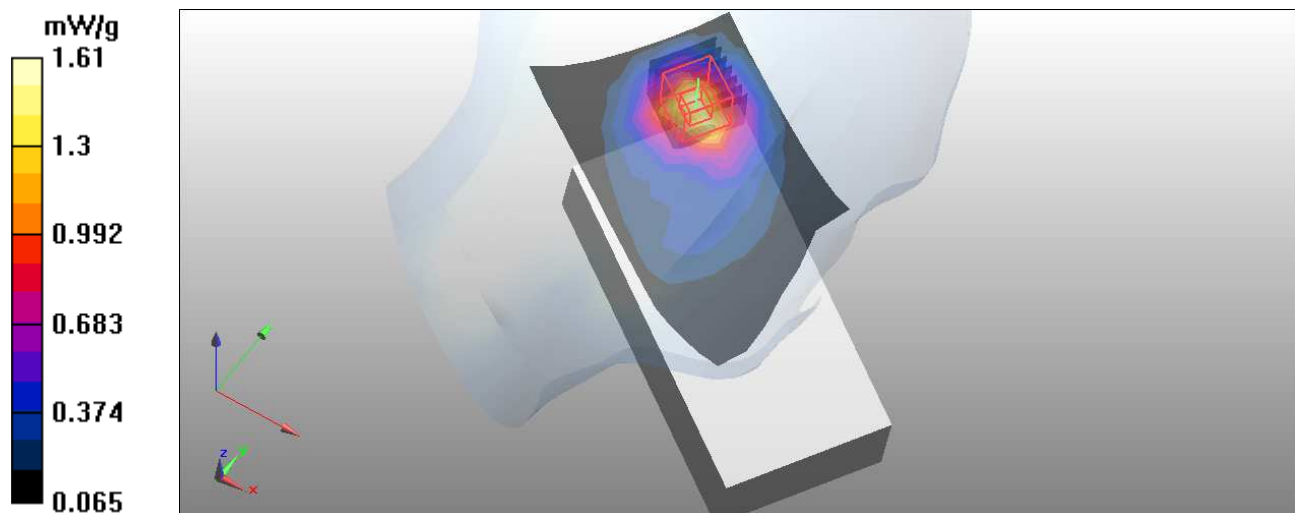
Configuration/ch9538 zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 20.6 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.744 mW/g

Maximum value of SAR (measured) = 1.61 mW/g



Test Laboratory: Bureau Veritas ADT

M10-Left Head Tilt 11A Ch64 / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: 802.11a, Communication System: WiFi ; Frequency: 5320 MHz ; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2010/1/26

- Sensor-Surface: 2.5mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- ; SEMCAD X Version 14.0 Build 61

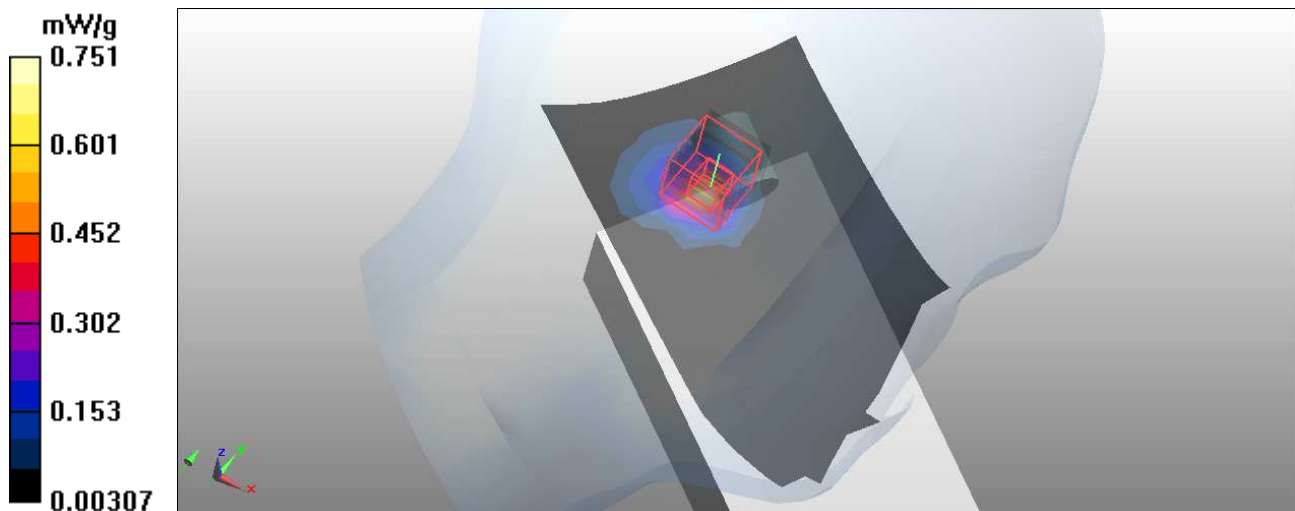
Configuration/11a ch64 Zoom/Area Scan (10x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.713 mW/g**Configuration/11a ch64 Zoom/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 11.3 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.434 mW/g; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.751 mW/g



Test Laboratory: Bureau Veritas ADT

M11-Left Head Tilt 11A Ch100 / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: 802.11a ; Frequency: 5500 MHz ; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

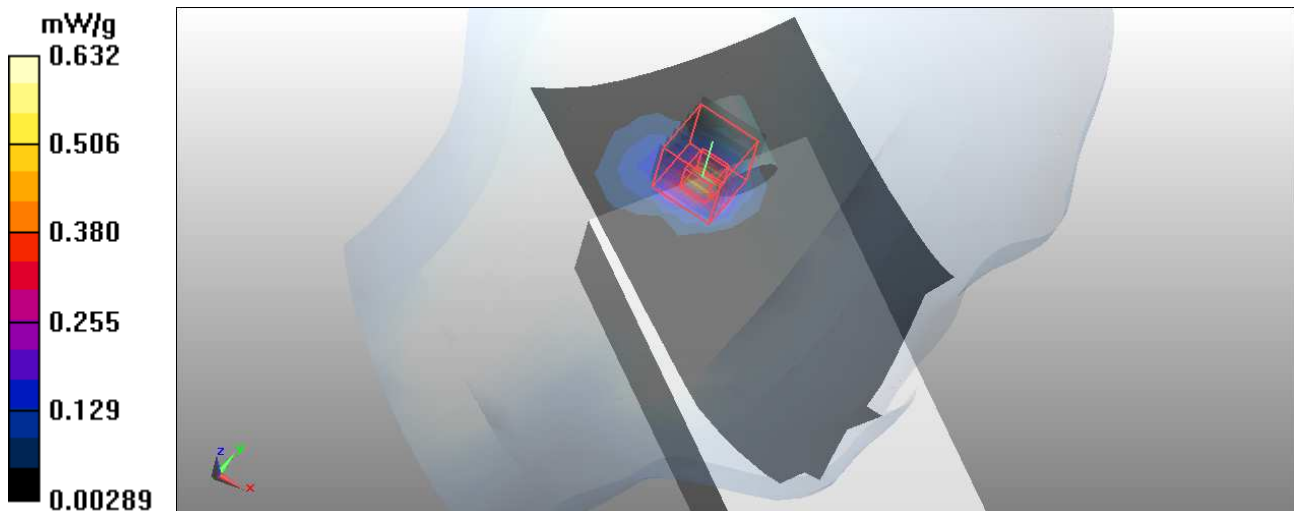
Configuration/11a ch64 Zoom/Area Scan (10x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.600 mW/g**Configuration/11a ch64 Zoom/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 10.7 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.632 mW/g



Test Laboratory: Bureau Veritas ADT

M12-Left Head Tilt 11A CH64 / 1D / 1.5X battery / qwerty

DUT: EDA ; Type: MC75A6

Communication System: 802.11a ; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/11a ch64 Zoom/Area Scan (10x20x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.728 mW/g

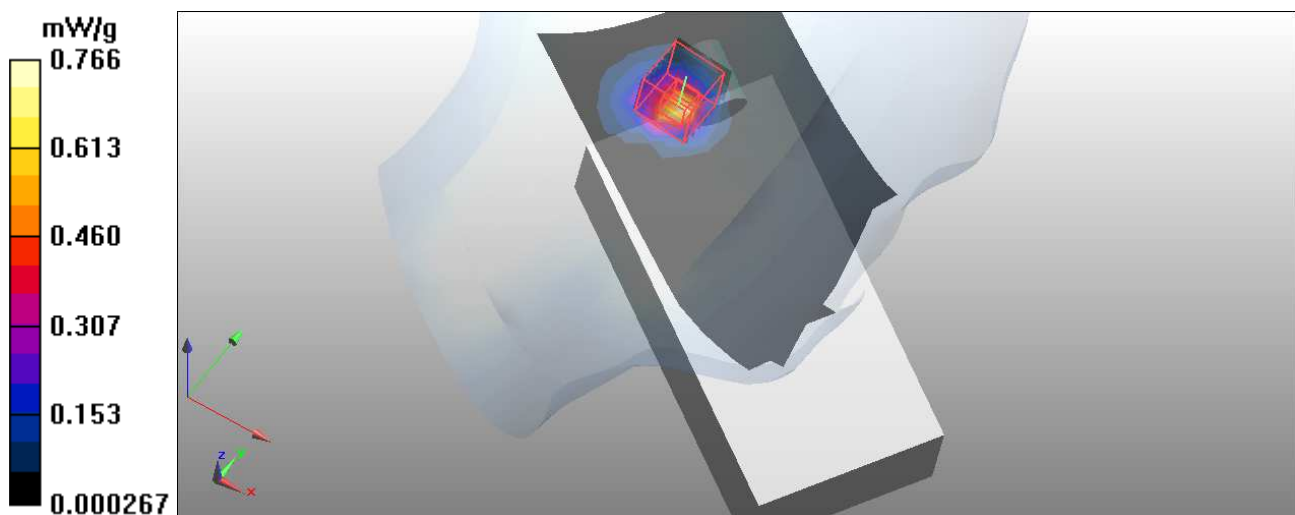
Configuration/11a ch64 Zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 10.7 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.152 mW/g

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



Test Laboratory: Bureau Veritas ADT

M13-Left Head Tilt 11A CH100 / 1D / 1.5X battery / qwerty

DUT: EDA ; Type: MC75A6

Communication System: 802.11a ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/11a ch100 Zoom/Area Scan (10x20x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.607 mW/g

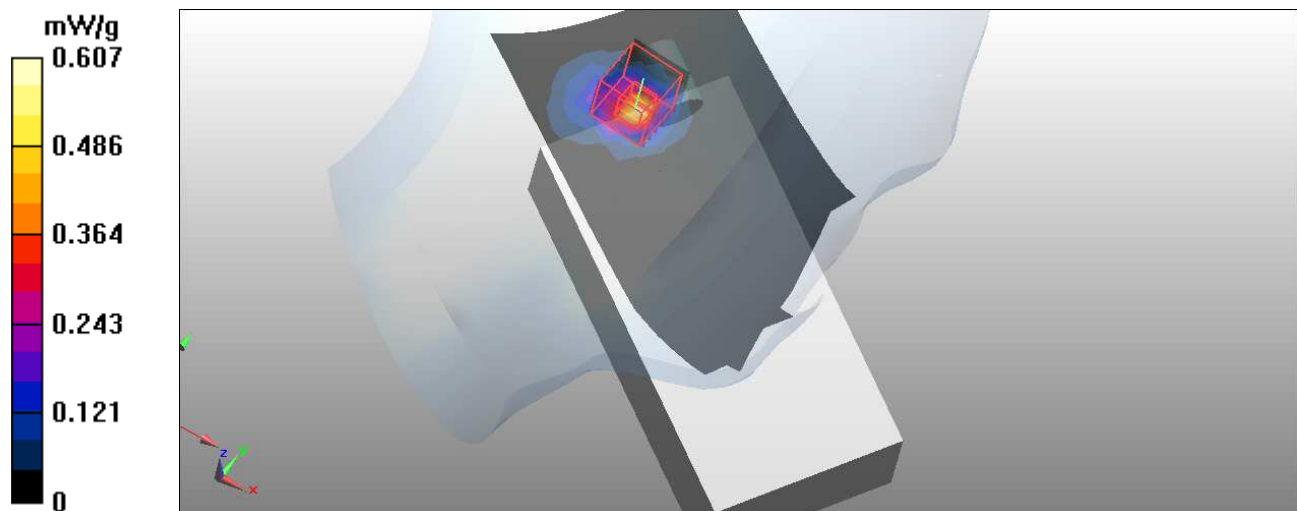
Configuration/11a ch100 Zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 9.29 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.113 mW/g

Maximum value of SAR (measured) = 0.631 mW/g



Test Laboratory: Bureau Veritas ADT

M14-Left Head Tilt 11A CH64 / 2D / 1.5X battery / numeric

DUT: EDA ; Type: MC75A6

Communication System: 802.11a ; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.8$ mho/m; $\epsilon_r = 36.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/11a ch64 Zoom/Area Scan (10x20x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.944 mW/g

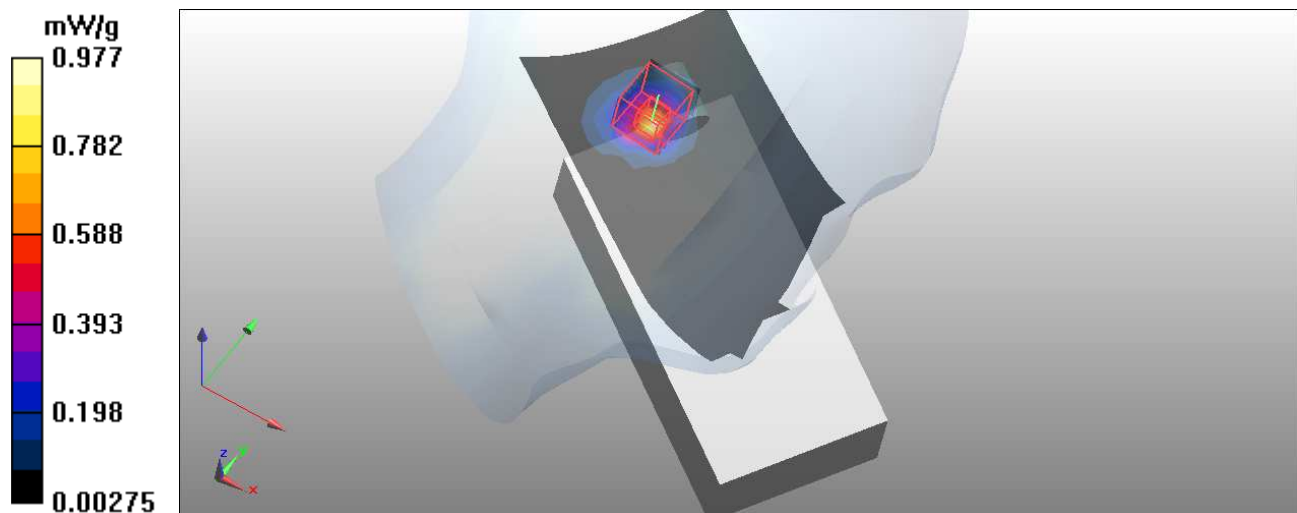
Configuration/11a ch64 Zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 12.1 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.190 mW/g

Maximum value of SAR (measured) = 0.977 mW/g



Test Laboratory: Bureau Veritas ADT

M15-Left Head Tilt 11A-Ch100 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: 802.11a ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.02$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

Configuration/11a ch100 Zoom/Area Scan (10x20x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.709 mW/g

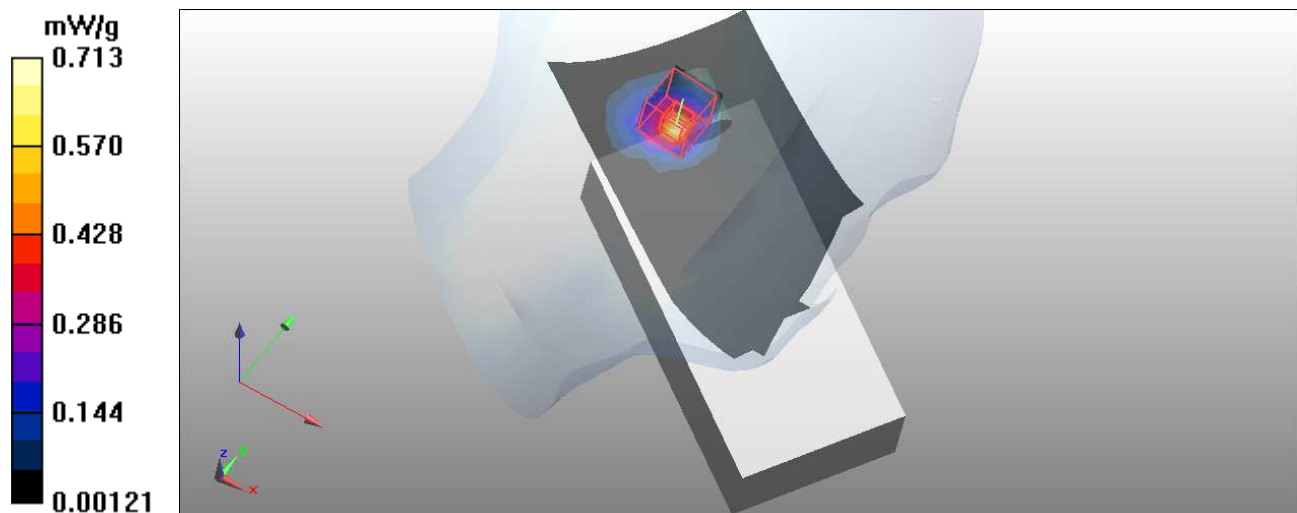
Configuration/11a ch100 Zoom/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 9.93 V/m; Power Drift = 0.145 dB

Peak SAR (extrapolated) = 1.4 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.713 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL1900

DUT: Dipole 1900 MHz ; Type: D1900V2 ; Serial: 5d036 ; Test Frequency: 1900 MHz

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

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³ ;

Liquid level : 152 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.1 degrees ; Liquid temp. : 22.6 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

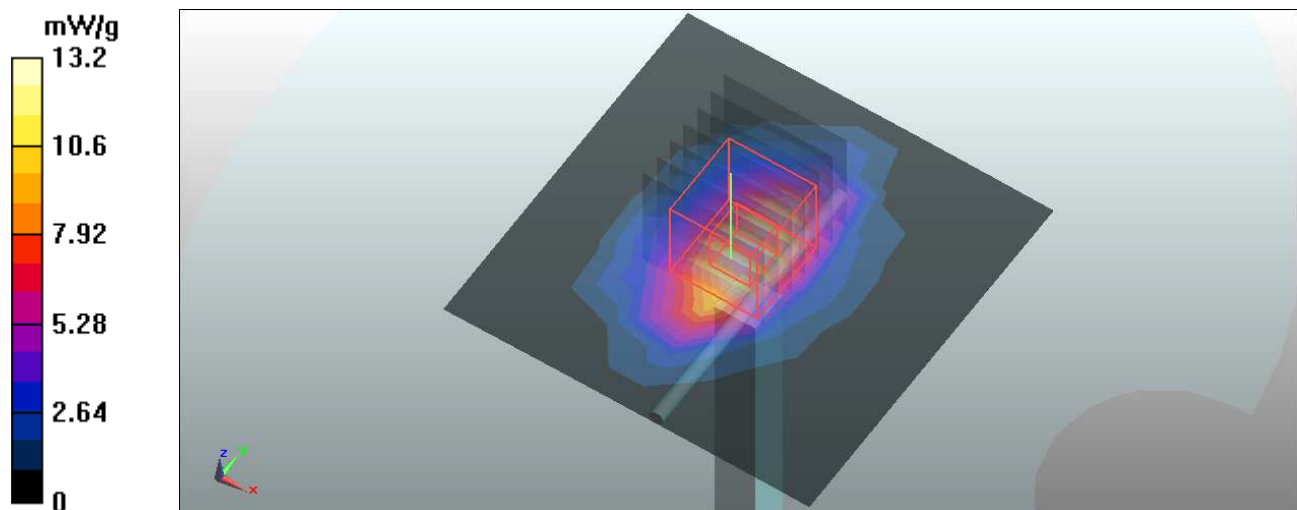
Maximum value of SAR (measured) = 13.1 mW/g

d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.3 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = **10.4 mW/g**; SAR(10 g) = 5.43 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL1900MHz

DUT: Dipole 1900 MHz ; Type: D1900V2 ; Serial: 5d036 ; Test Frequency: 1900 MHz

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

Medium: HSL1900; Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 40.9$; $\rho = 1000 \text{ kg/m}^3$;
Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23 degrees ; Liquid temp. : 22.7 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

d=10mm, Pin=250 mW, dist=3.0mm/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.9 mW/g

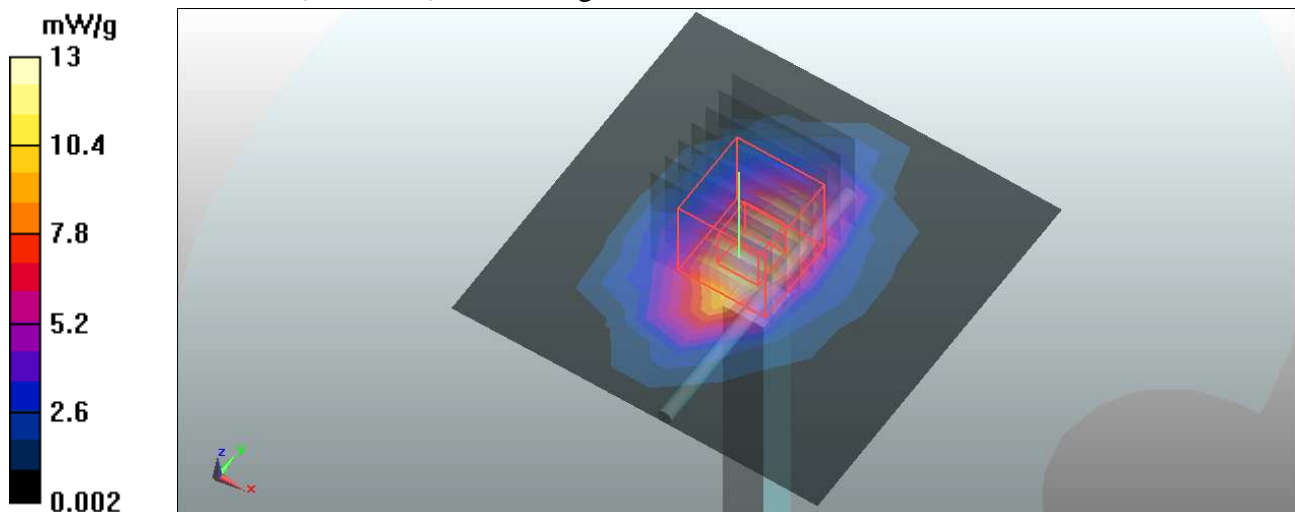
d=10mm, Pin=250 mW, dist=3.0mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.6 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 19.6 W/kg

SAR(1 g) = 10.35 mW/g; SAR(10 g) = 5.38 mW/g

Maximum value of SAR (measured) = 13 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL5200

DUT: Dipole D5GHzV2 ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5200 MHz

Communication System: CW-5GHz ; Frequency: 5200 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5200; Medium parameters used: $f = 5200$ MHz; $\sigma = 4.65$ mho/m; $\epsilon_r = 36.7$; $\rho = 1000$ kg/m³ ;
 Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)
 Air temp. : 23 degrees ; Liquid temp. : 22.8 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.87, 4.87, 4.87) ; Calibrated: 2010/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=100mW, f=5200 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

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

d=10mm, Pin=100mW, f=5200 MHz/Zoom Scan (4x4x2.5mm), dist=2mm (8x8x10)/Cube

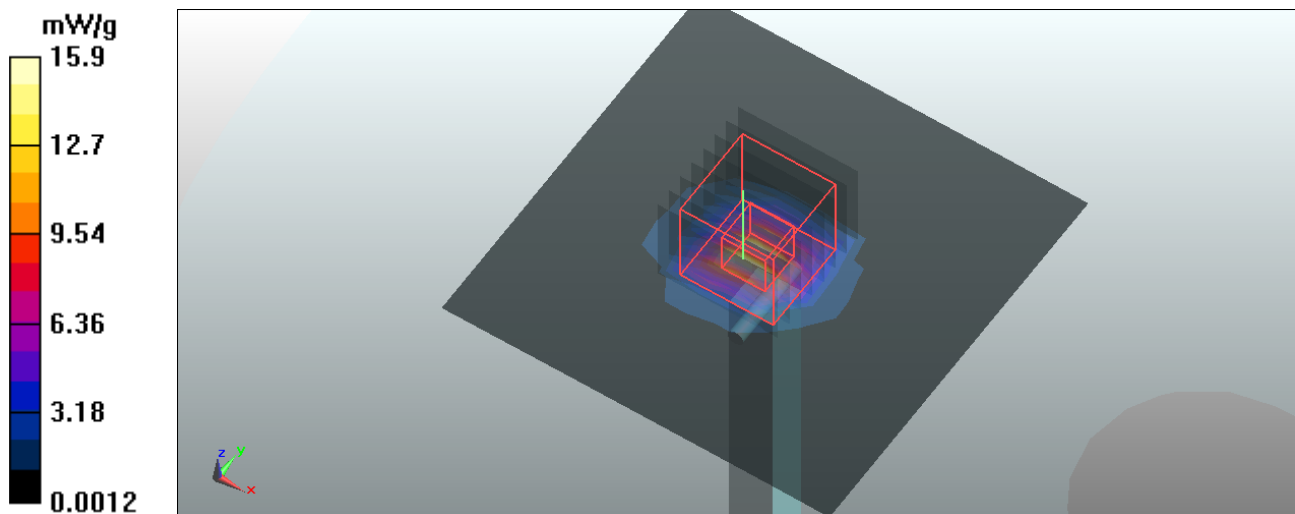
0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 65.1 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 30.4 W/kg

SAR(1 g) = 8.29 mW/g; SAR(10 g) = 2.31 mW/g

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



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL5500

DUT: Dipole D5GHzV2 ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5500 MHz

Communication System: CW-5GHz ; Frequency: 5500 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5500; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³ ;
 Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.1 degrees ; Liquid temp. : 22.9 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=100mW, f=5500 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.5 mW/g

d=10mm, Pin=100mW, f=5500 MHz/Zoom Scan (4x4x2.5mm), dist=2mm (8x8x10)/Cube

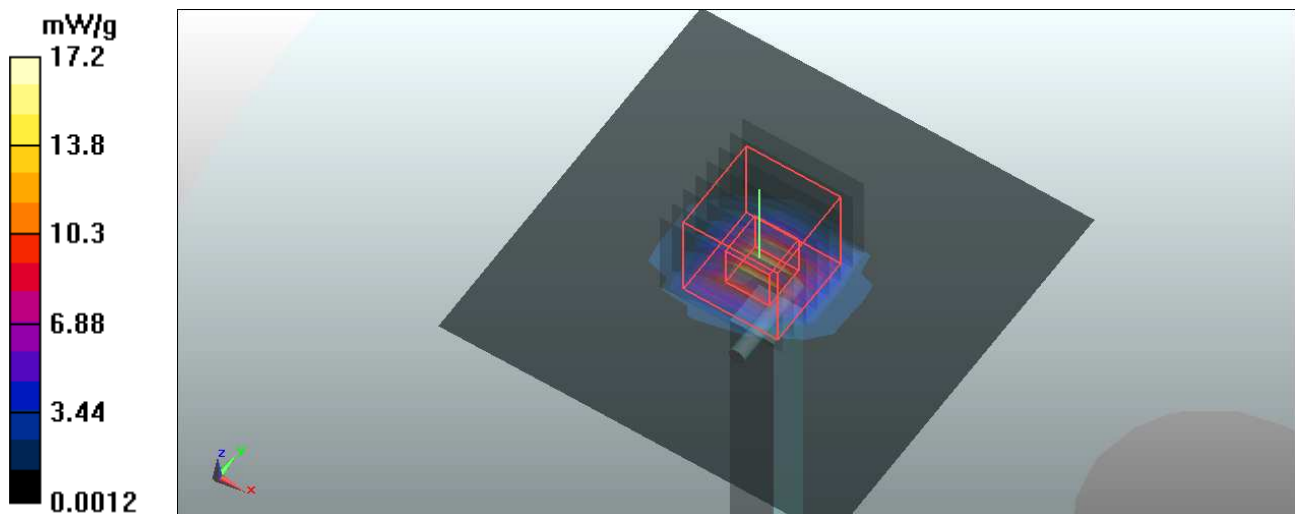
0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 66.2 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8.7 mW/g; SAR(10 g) = 2.47 mW/g

Maximum value of SAR (measured) = 17 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL5200

DUT: Dipole D5GHzV2 ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5200 MHz

Communication System: CW-5GHz ; Frequency: 5200 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5200; Medium parameters used: $f = 5200$ MHz; $\sigma = 4.68$ mho/m; $\epsilon_r = 36.7$; $\rho = 1000$ kg/m³ ;
 Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.9 degrees ; Liquid temp. : 22.7 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.87, 4.87, 4.87) ; Calibrated: 2010/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=100mW, f=5200 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

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

d=10mm, Pin=100mW, f=5200 MHz/Zoom Scan (4x4x2.5mm), dist=2mm (8x8x10)/Cube

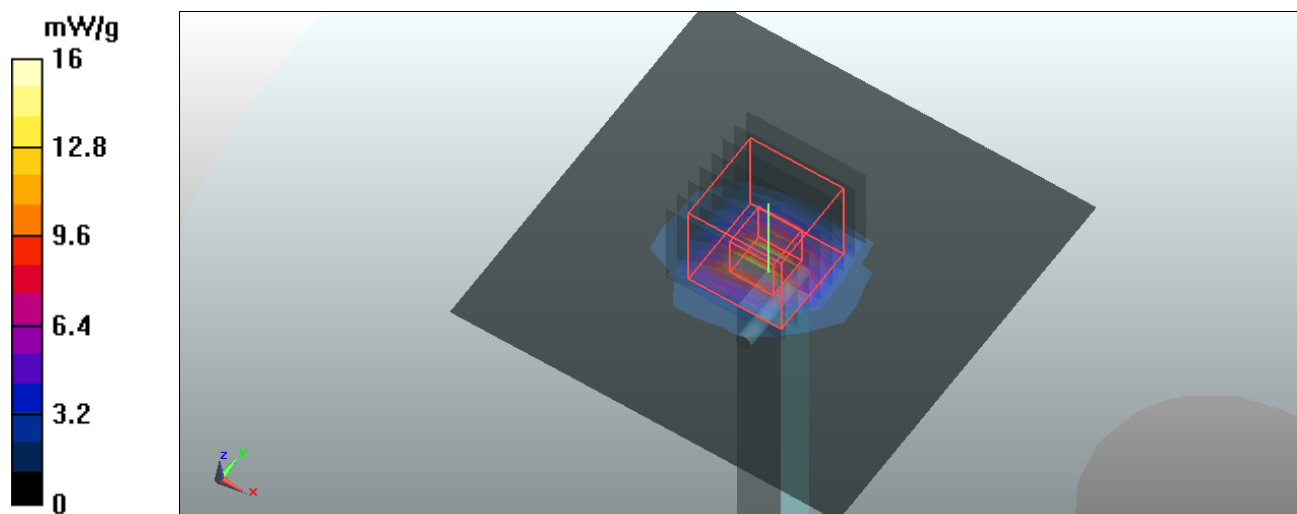
0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 65.3 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 8.32 mW/g; SAR(10 g) = 2.36 mW/g

Maximum value of SAR (measured) = 16 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL5500

DUT: Dipole D5GHzV2 ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5500 MHz

Communication System: CW-5GHz ; Frequency: 5500 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5500; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.02$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³ ;
 Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.9 degrees ; Liquid temp. : 22.8 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=100mW, f=5500 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.6 mW/g

d=10mm, Pin=100mW, f=5500 MHz/Zoom Scan (4x4x2.5mm), dist=2mm (8x8x10)/Cube

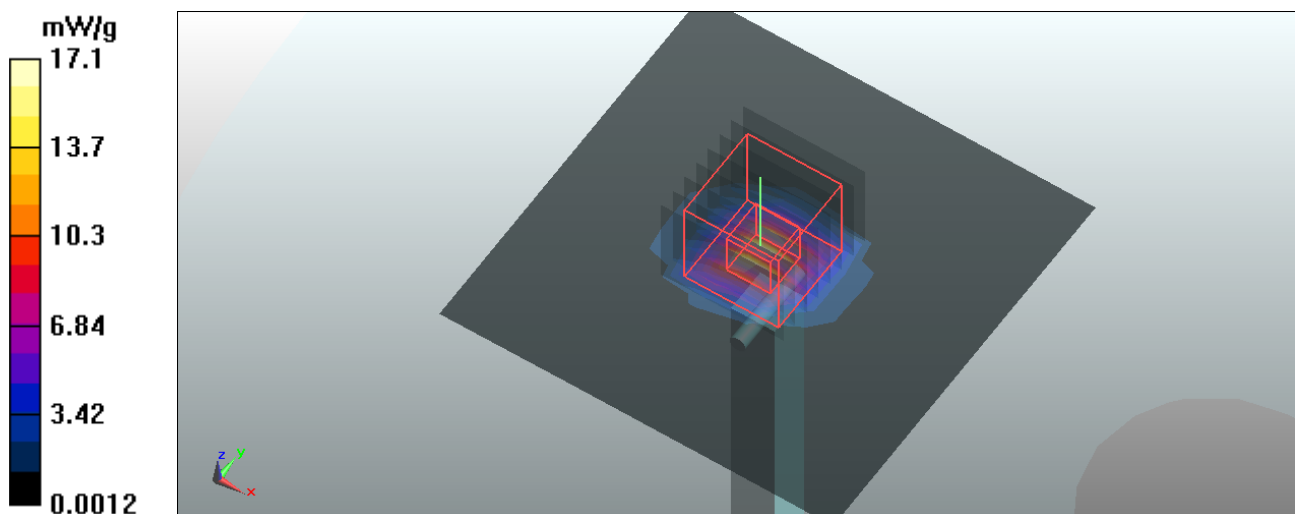
0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 66.1 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 33.7 W/kg

SAR(1 g) = 8.78 mW/g; SAR(10 g) = 2.51 mW/g

Maximum value of SAR (measured) = 17.1 mW/g



APPENDIX A: TEST DATA for Volume scan SAR

Liquid Level Photo

Tissue HSL1900MHz D=152mm



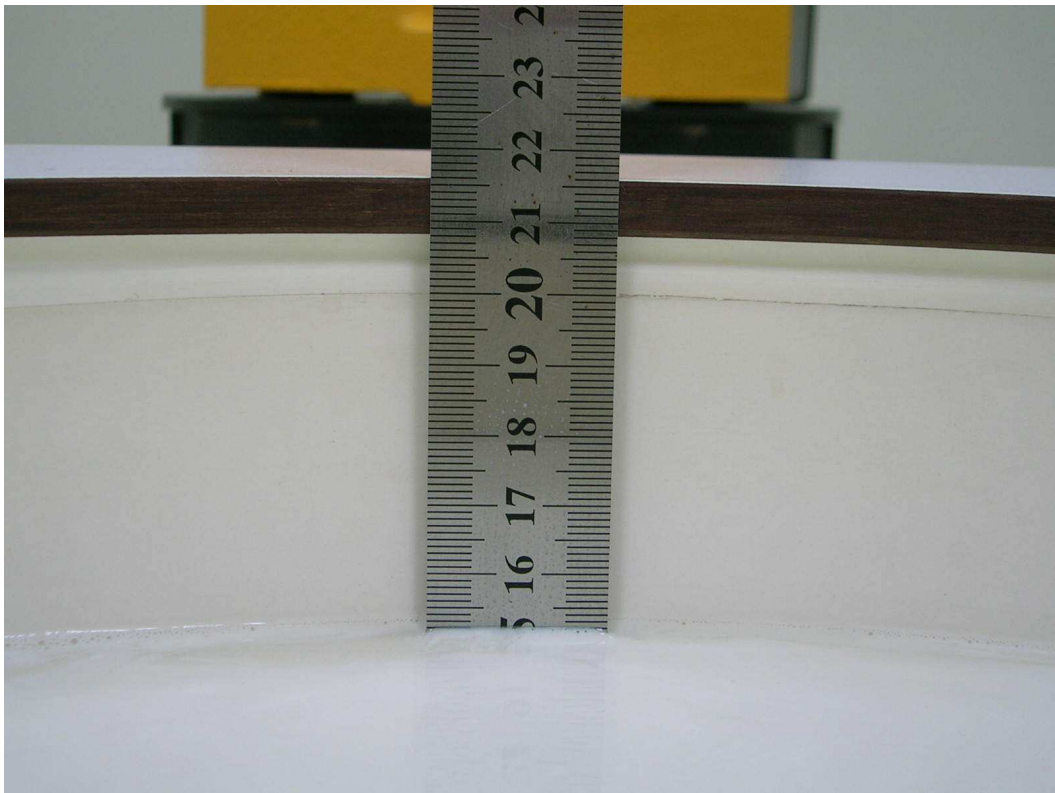
Tissue HSL1900MHz D=150mm



Tissue HSL5500MHz D=151mm



Tissue HSL5500MHz D=150mm



Test Laboratory: Bureau Veritas ADT

M01- Left Head Tilt WCDMA1900 ch9262 / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1852.4 MHz ; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26

- Sensor-Surface: 2.5mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- ; SEMCAD X Version 14.0 Build 61

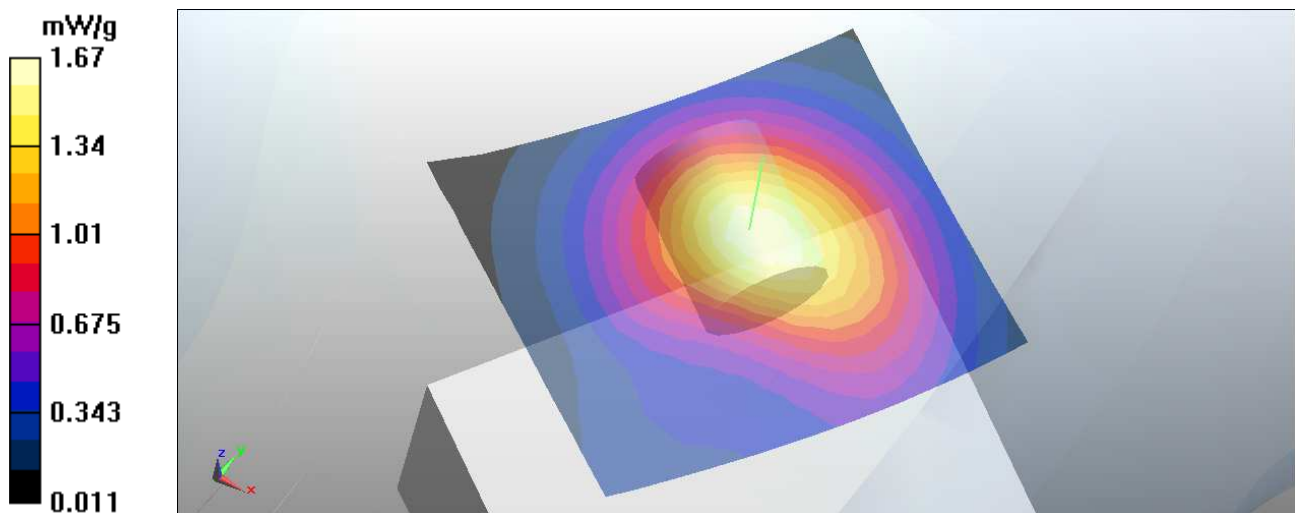
Configuration/ch9262 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 22.8 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.734 mW/g

Maximum value of SAR (measured) = 1.67 mW/g



Test Laboratory: Bureau Veritas ADT

M02-Left Head Tilt WCDMA1900 ch9400 / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

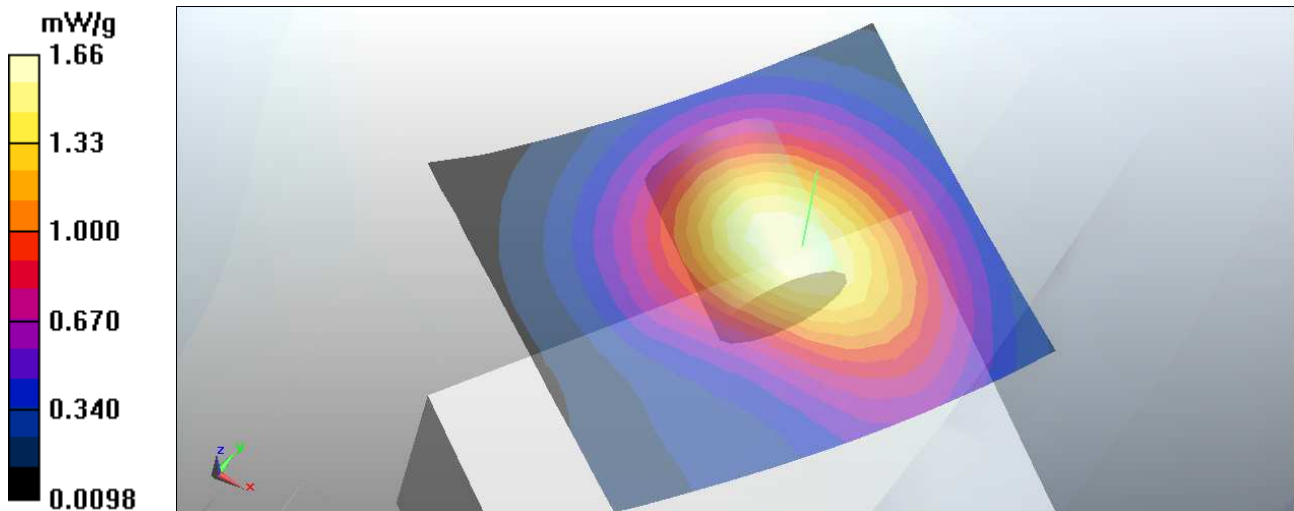
Configuration/ch9400 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 21.9 V/m; Power Drift = 0.057 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.738 mW/g

Maximum value of SAR (measured) = 1.66 mW/g



Test Laboratory: Bureau Veritas ADT

M03-Left Head Tilt WCDMA1900 ch9538 / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1907.6 MHz ; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

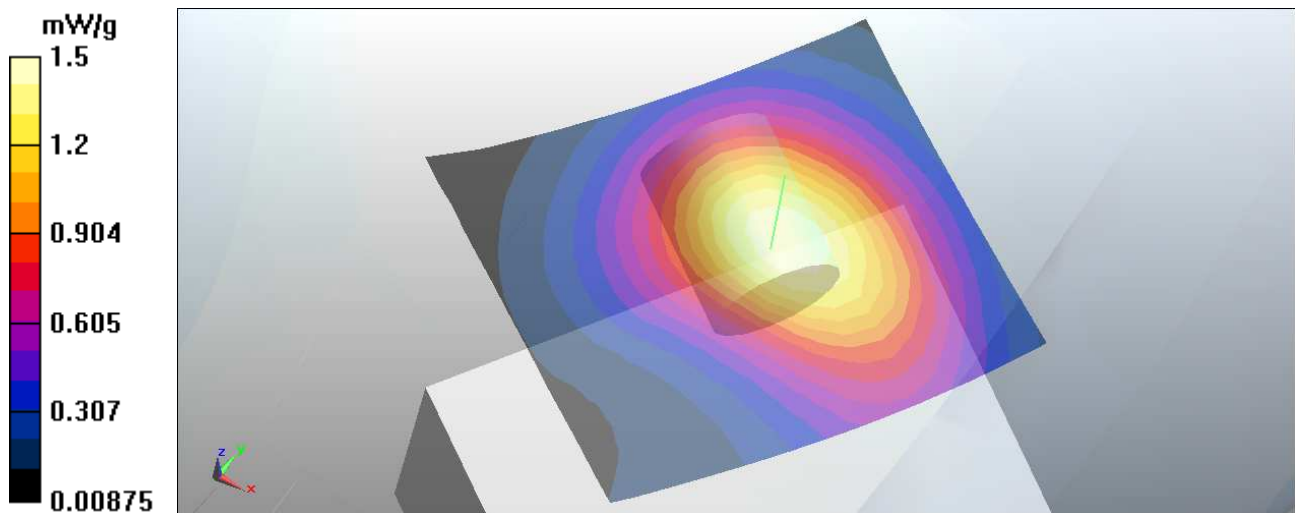
Configuration/ch9262 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 20.2 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.668 mW/g

Maximum value of SAR (measured) = 1.5 mW/g



Test Laboratory: Bureau Veritas ADT

M04-Left Head Tilt WCDMA1900 Ch9262 / 1D / 1.5X battery / qwerty**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

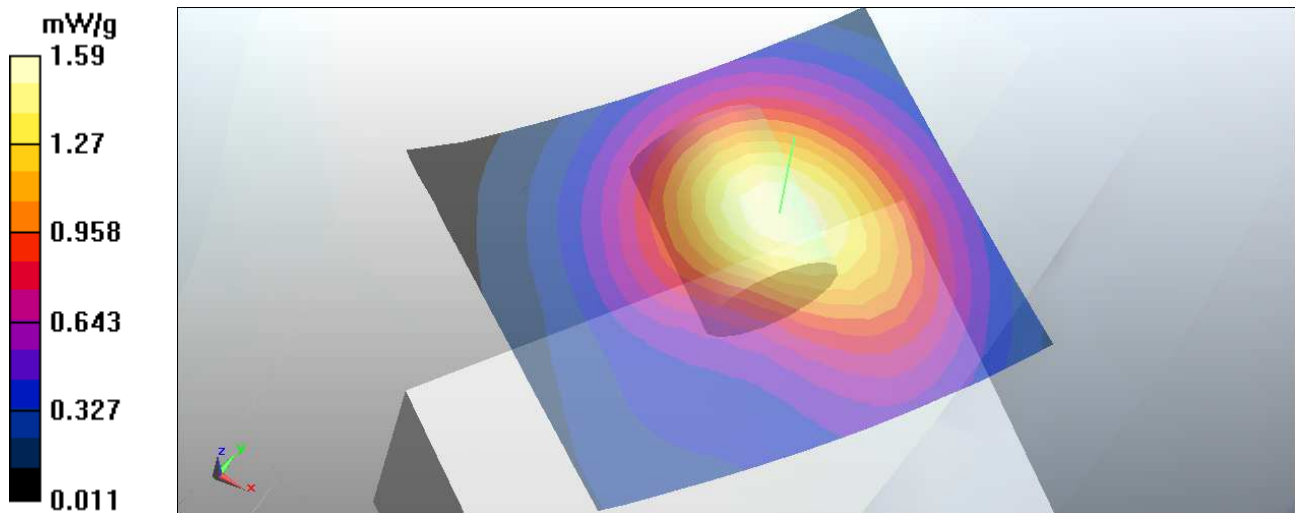
Configuration/ch9262 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 21 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.717 mW/g

Maximum value of SAR (measured) = 1.59 mW/g



Test Laboratory: Bureau Veritas ADT

M05- Left Head Tilt WCDMA1900 Ch9400 / 1D / 1.5X battery / qwerty**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

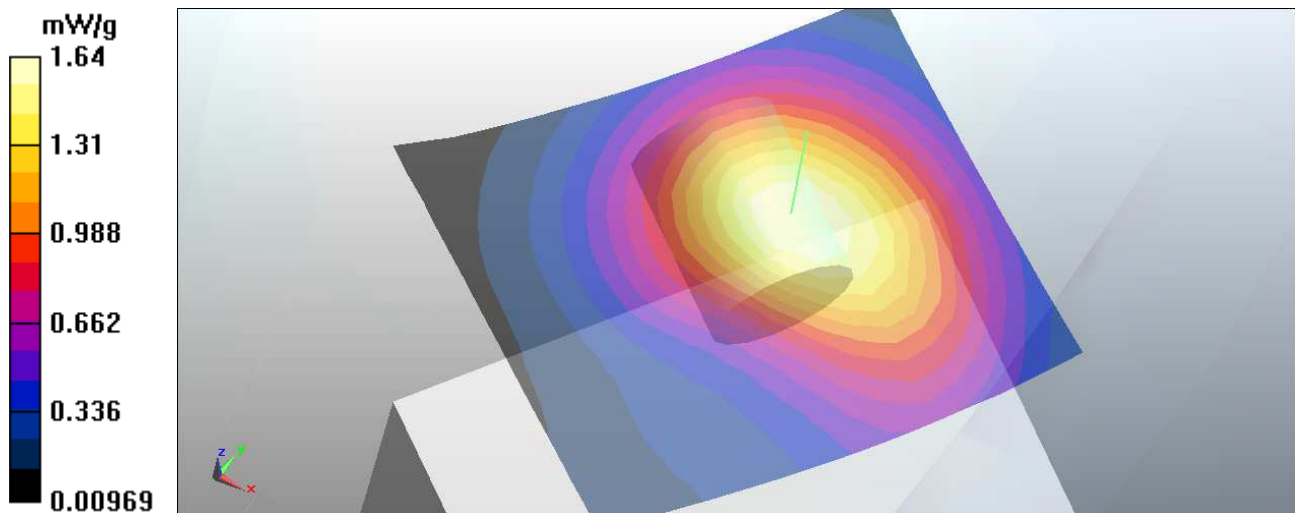
Configuration/ch9400 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 19.9 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.750 mW/g

Maximum value of SAR (measured) = 1.64 mW/g



Test Laboratory: Bureau Veritas ADT

M06-Left Head Tilt WCDMA1900 Ch9538 / 1D / 1.5X battery / qwerty**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

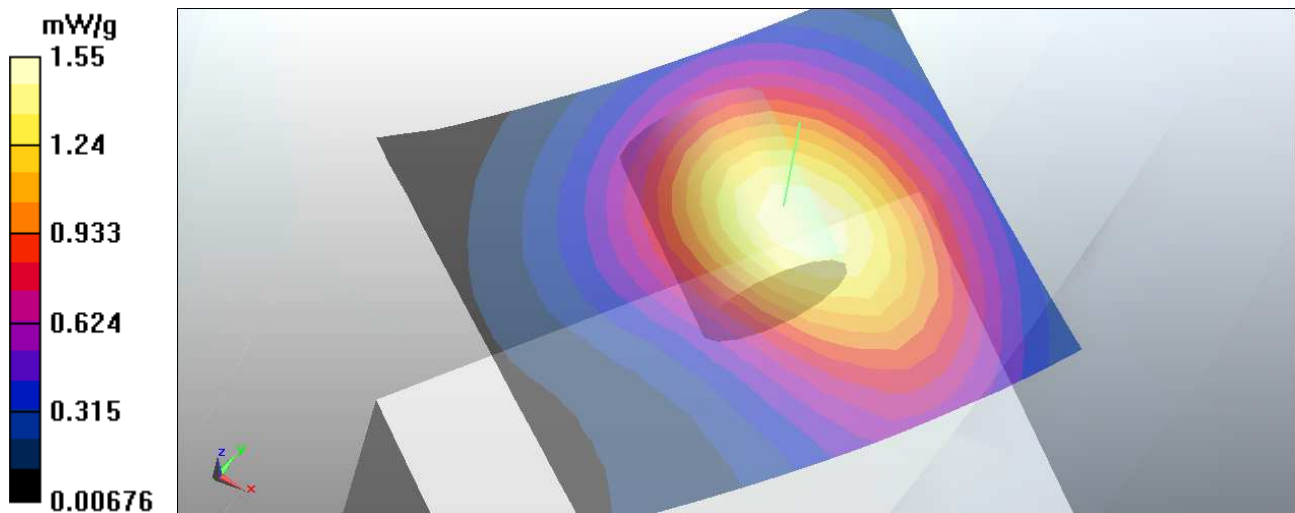
Configuration/ch9538 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 18.8 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.695 mW/g

Maximum value of SAR (measured) = 1.55 mW/g



Test Laboratory: Bureau Veritas ADT

M07-Left Head Tilt WCDMA1900 Ch9262 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

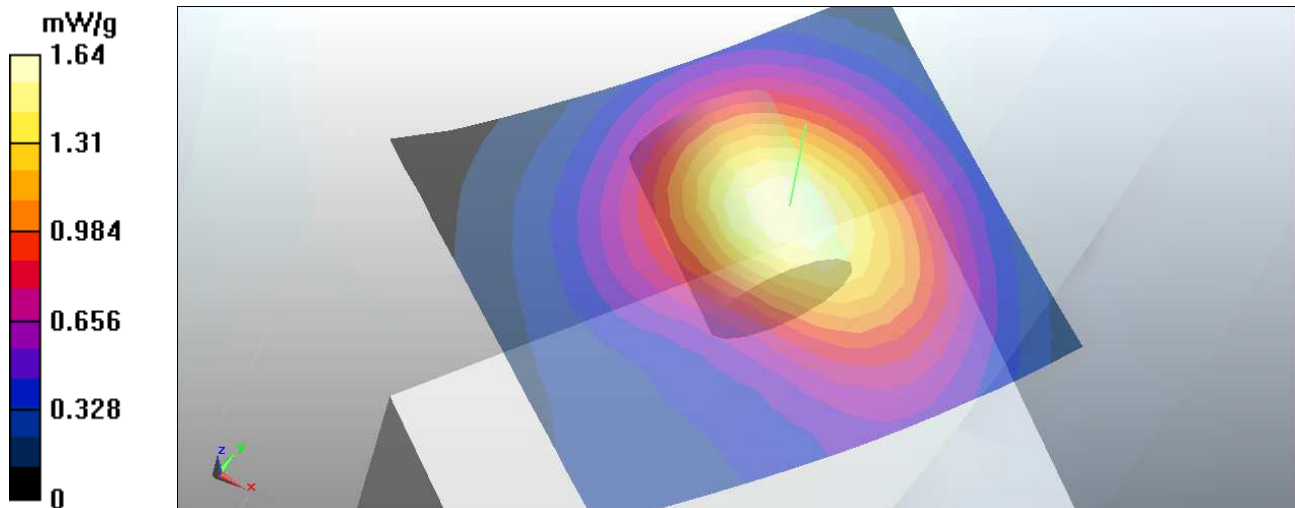
Configuration/ch9262 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 19.5 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.734 mW/g

Maximum value of SAR (measured) = 1.64 mW/g



Test Laboratory: Bureau Veritas ADT

M08- Left Head Tilt WCDMA1900 Ch9400 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

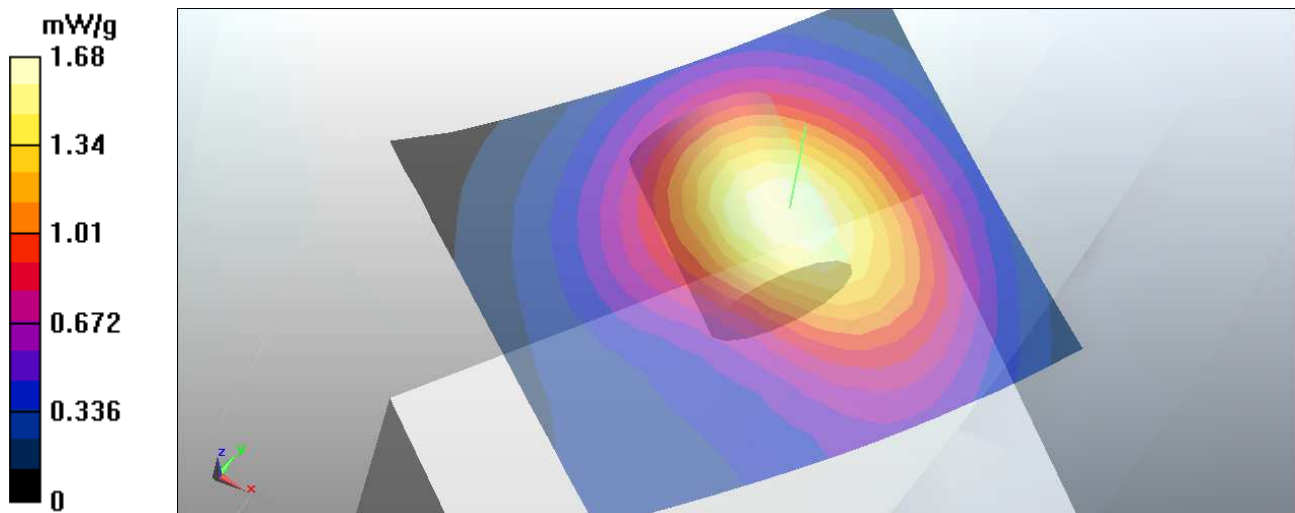
Configuration/ch9400 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 20.5 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.756 mW/g

Maximum value of SAR (measured) = 1.68 mW/g



Test Laboratory: Bureau Veritas ADT

M09-Left Head Tilt WCDMA1900 Ch9538 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WCDMA1900 ; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

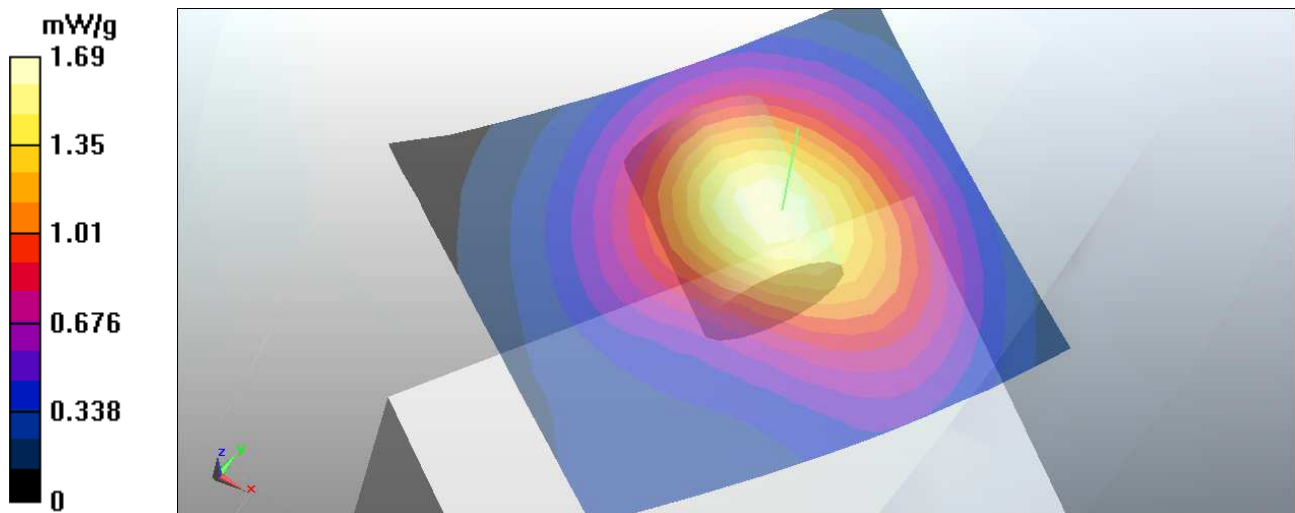
Configuration/ch9538 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 20.8 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.746 mW/g

Maximum value of SAR (measured) = 1.69 mW/g



Test Laboratory: Bureau Veritas ADT

M10-Left Head Tilt 11A ch64 Volume / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: WiFi ; Frequency: 5320 MHz ; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

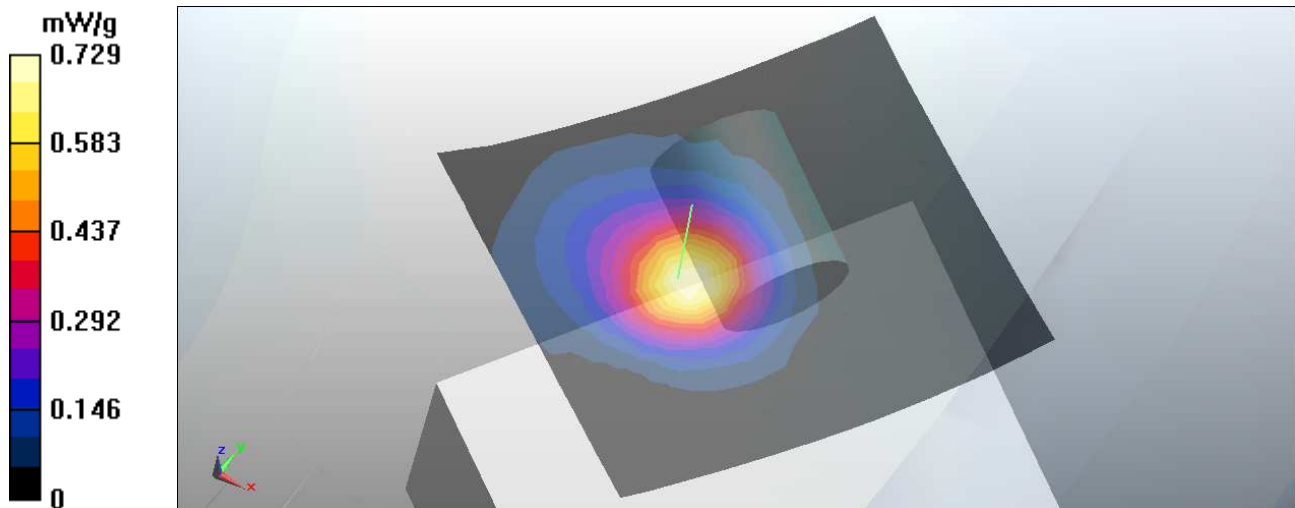
Configuration/11a ch64 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 11.2 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.729 mW/g



Test Laboratory: Bureau Veritas ADT

M11- Left Head Tilt 11A ch100 Volume / 1D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: 802.11a ; Frequency: 5500 MHz ; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26

- Sensor-Surface: 2.5mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- ; SEMCAD X Version 14.0 Build 61

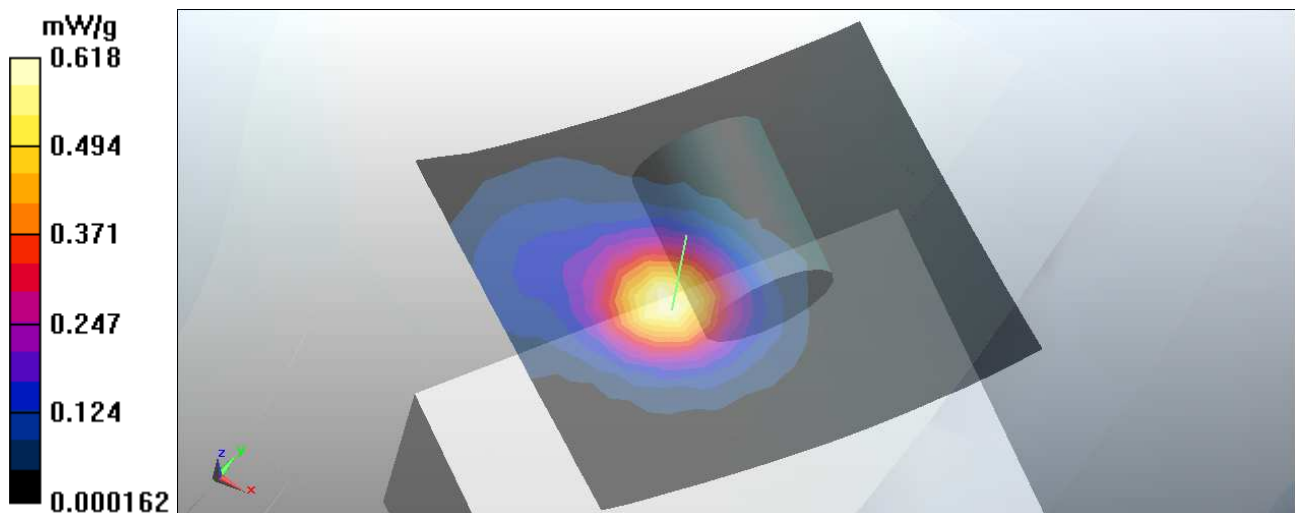
Configuration/11a ch64 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 10.7 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR (measured) = 0.618 mW/g



Test Laboratory: Bureau Veritas ADT

M12-Left Head Tilt 11A CH64 / 1D / 1.5X battery / qwerty**DUT: EDA ; Type: MC75A6**

Communication System: 802.11a ; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

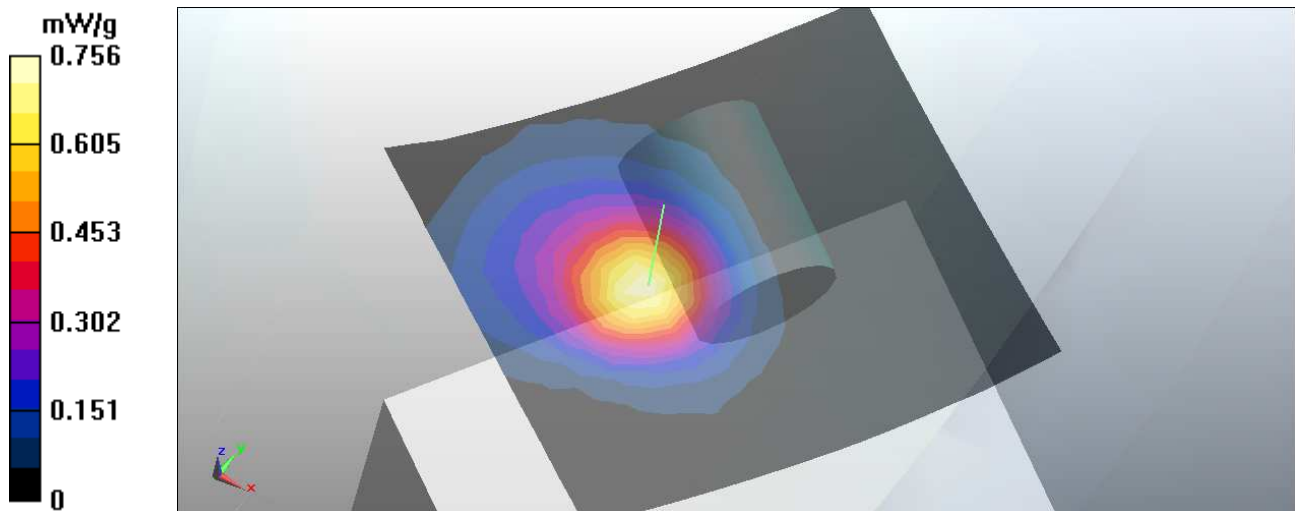
Configuration/11a ch64 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 10.3 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.430 mW/g; SAR(10 g) = 0.141 mW/g

Maximum value of SAR (measured) = 0.756 mW/g



Test Laboratory: Bureau Veritas ADT

M13-Left Head Tilt 11A CH100 / 1D / 1.5X battery / qwerty**DUT: EDA ; Type: MC75A6**

Communication System: 802.11a ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

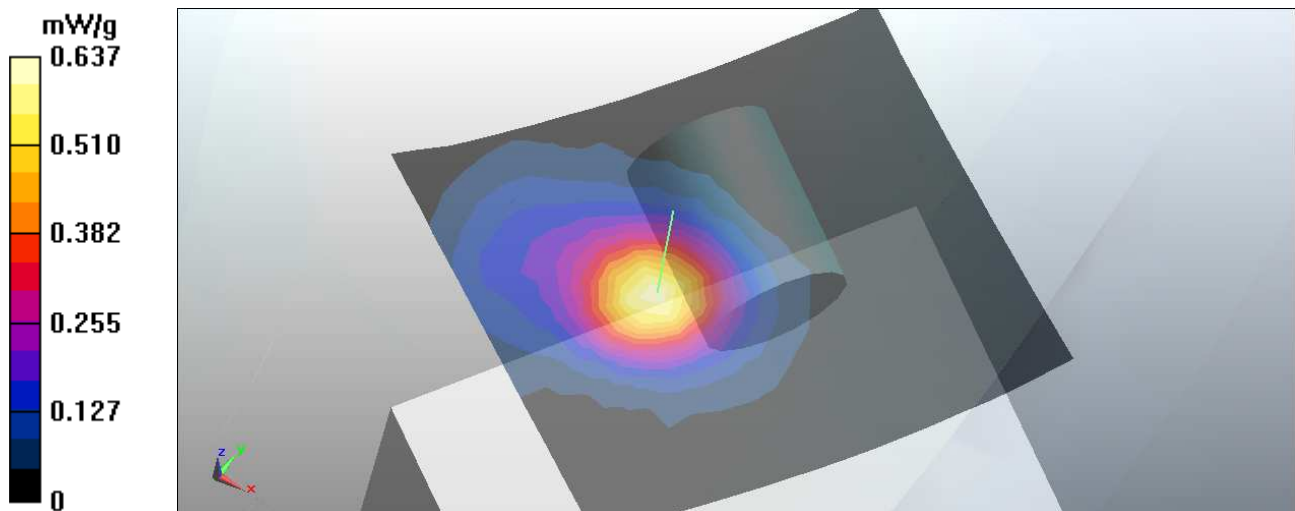
Configuration/11a ch100 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 9.19 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.113 mW/g

Maximum value of SAR (measured) = 0.637 mW/g



Test Laboratory: Bureau Veritas ADT

M14-Left Head Tilt 11A CH64 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: 802.11a ; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.8$ mho/m; $\epsilon_r = 36.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

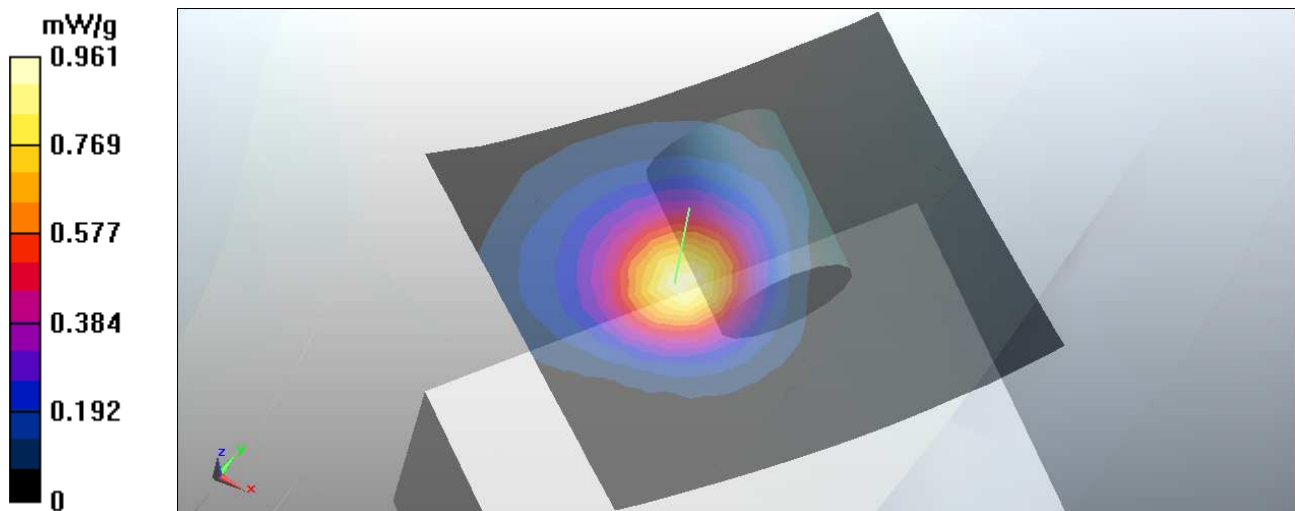
Configuration/11a ch64 Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 12.2 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.186 mW/g

Maximum value of SAR (measured) = 0.961 mW/g



Test Laboratory: Bureau Veritas ADT

M15-Left Head Tilt 11A-Ch100 / 2D / 1.5X battery / numeric**DUT: EDA ; Type: MC75A6**

Communication System: 802.11a ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.02$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: BPSK

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

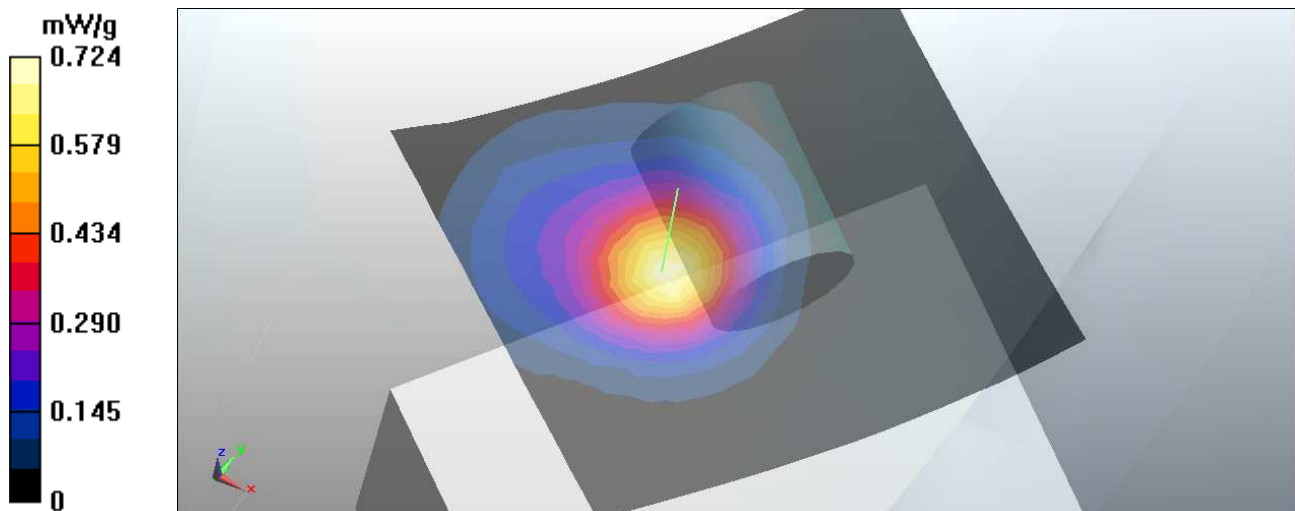
Configuration/11a ch100Volume/Volume Scan (18x16x9): Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 10.1 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.724 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL1900

DUT: Dipole 1900 MHz ; Type: D1900V2 ; Serial: 5d036 ; Test Frequency: 1900 MHz

Communication System: CW ; Frequency: 1900 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³ ;
 Liquid level : 152 mm
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.1 degrees ; Liquid temp. : 22.6 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Area Scan (7x7x1): Measurement grid:
 dx=15mm, dy=15mm

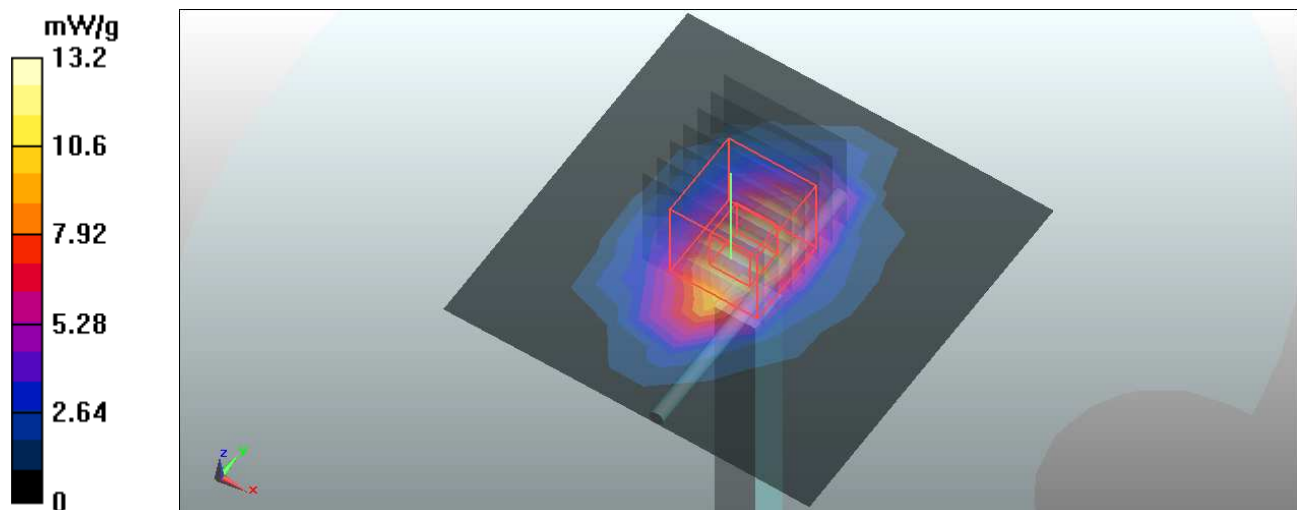
Maximum value of SAR (measured) = 13.1 mW/g

d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.3 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = **10.4 mW/g**; SAR(10 g) = 5.43 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL1900MHz

DUT: Dipole 1900 MHz ; Type: D1900V2 ; Serial: 5d036 ; Test Frequency: 1900 MHz

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

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³ ;
Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23 degrees ; Liquid temp. : 22.7 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

d=10mm, Pin=250 mW, dist=3.0mm/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.9 mW/g

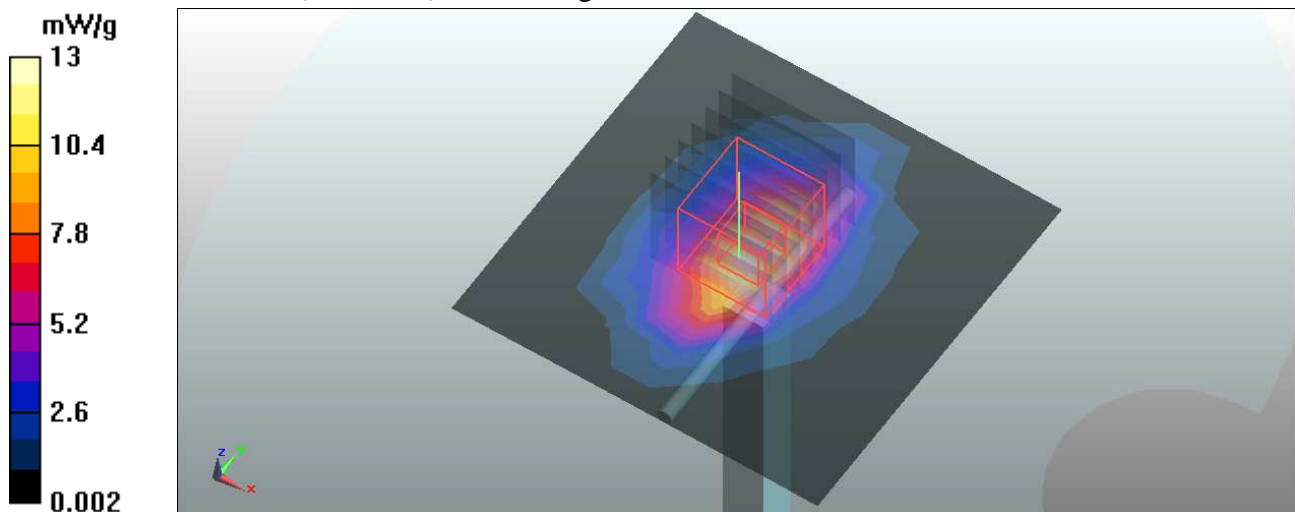
d=10mm, Pin=250 mW, dist=3.0mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.6 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 19.6 W/kg

SAR(1 g) = 10.35 mW/g; SAR(10 g) = 5.38 mW/g

Maximum value of SAR (measured) = 13 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL5200

DUT: Dipole D5GHzV2 ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5200 MHz

Communication System: CW-5GHz ; Frequency: 5200 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5200; Medium parameters used: $f = 5200$ MHz; $\sigma = 4.65$ mho/m; $\epsilon_r = 36.7$; $\rho = 1000$ kg/m³ ;
 Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23 degrees ; Liquid temp. : 22.8 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.87, 4.87, 4.87) ; Calibrated: 2010/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=100mW, f=5200 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

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

d=10mm, Pin=100mW, f=5200 MHz/Zoom Scan (4x4x2.5mm), dist=2mm (8x8x10)/Cube

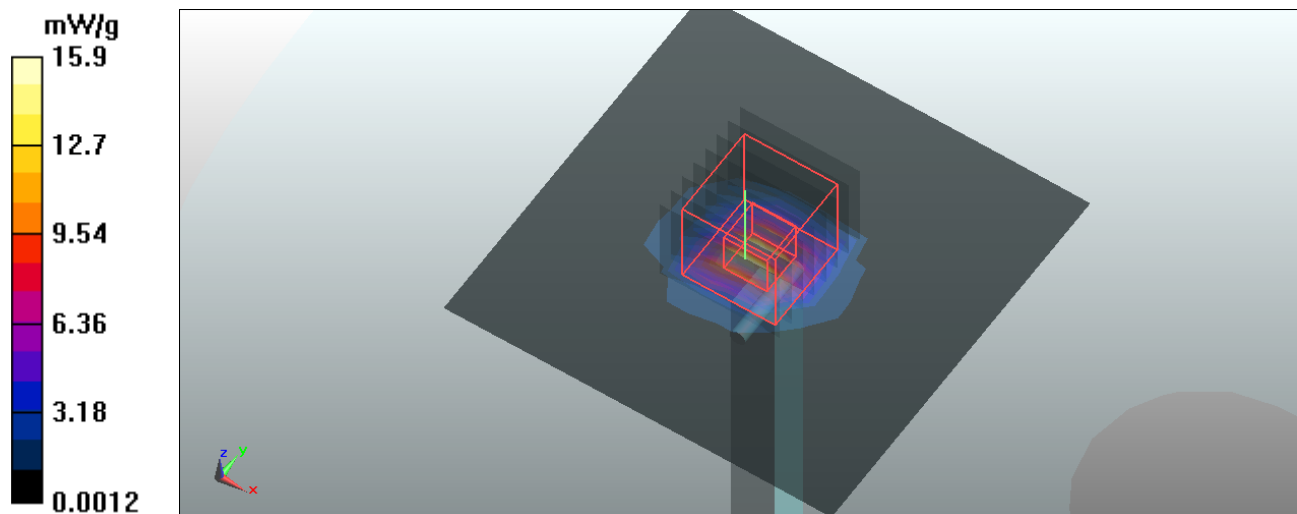
0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 65.1 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 30.4 W/kg

SAR(1 g) = 8.29 mW/g; SAR(10 g) = 2.31 mW/g

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



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL5500

DUT: Dipole D5GHzV2 ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5500 MHz

Communication System: CW-5GHz ; Frequency: 5500 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5500; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³ ;
 Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)
 Air temp. : 23.1 degrees ; Liquid temp. : 22.9 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=100mW, f=5500 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.5 mW/g

d=10mm, Pin=100mW, f=5500 MHz/Zoom Scan (4x4x2.5mm), dist=2mm (8x8x10)/Cube

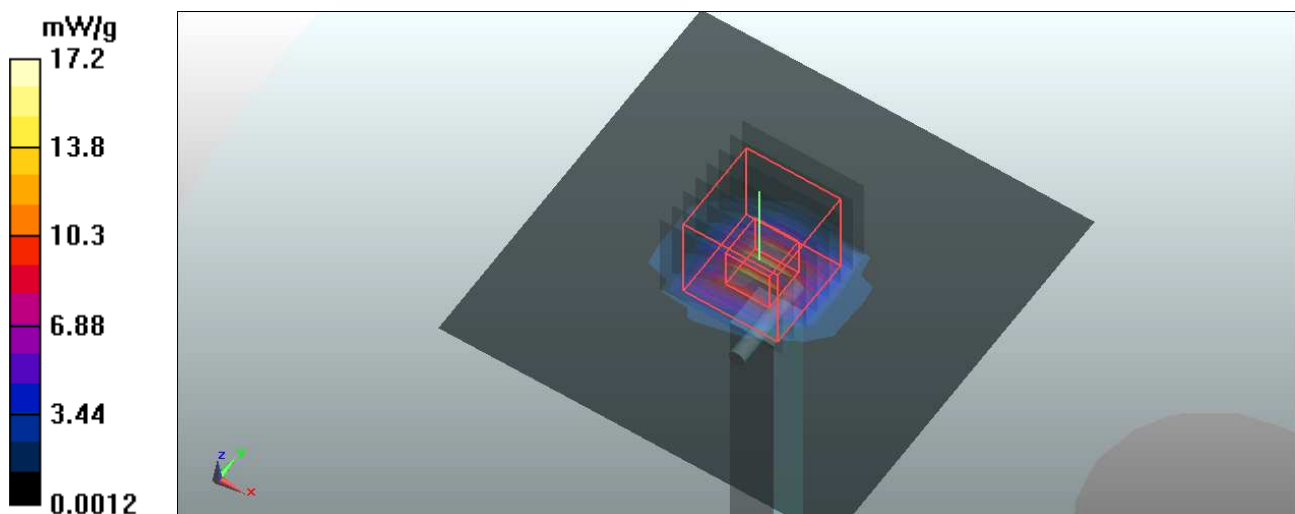
0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 66.2 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8.7 mW/g; SAR(10 g) = 2.47 mW/g

Maximum value of SAR (measured) = 17 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL5200

DUT: Dipole D5GHzV2 ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5200 MHz

Communication System: CW-5GHz ; Frequency: 5200 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5200; Medium parameters used: $f = 5200$ MHz; $\sigma = 4.68$ mho/m; $\epsilon_r = 36.7$; $\rho = 1000$ kg/m³ ;
 Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.9 degrees ; Liquid temp. : 22.7 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.87, 4.87, 4.87) ; Calibrated: 2010/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=100mW, f=5200 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

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

d=10mm, Pin=100mW, f=5200 MHz/Zoom Scan (4x4x2.5mm), dist=2mm (8x8x10)/Cube

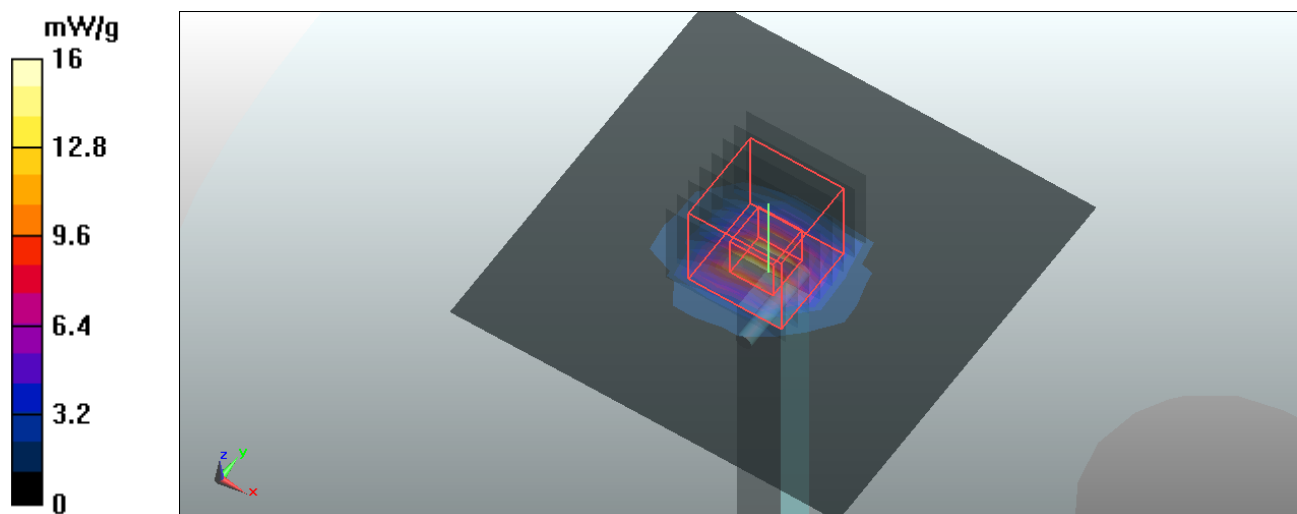
0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 65.3 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 8.32 mW/g; SAR(10 g) = 2.36 mW/g

Maximum value of SAR (measured) = 16 mW/g



Test Laboratory: Bureau Veritas ADT

System Performance Check-HSL5500

DUT: Dipole D5GHzV2 ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5500 MHz

Communication System: CW-5GHz ; Frequency: 5500 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5500; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.02$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³ ;
 Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)
 Air temp. : 22.9 degrees ; Liquid temp. : 22.8 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.51, 4.51, 4.51) ; Calibrated: 2010/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- ; SEMCAD X Version 14.0 Build 61

d=10mm, Pin=100mW, f=5500 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.6 mW/g

d=10mm, Pin=100mW, f=5500 MHz/Zoom Scan (4x4x2.5mm), dist=2mm (8x8x10)/Cube

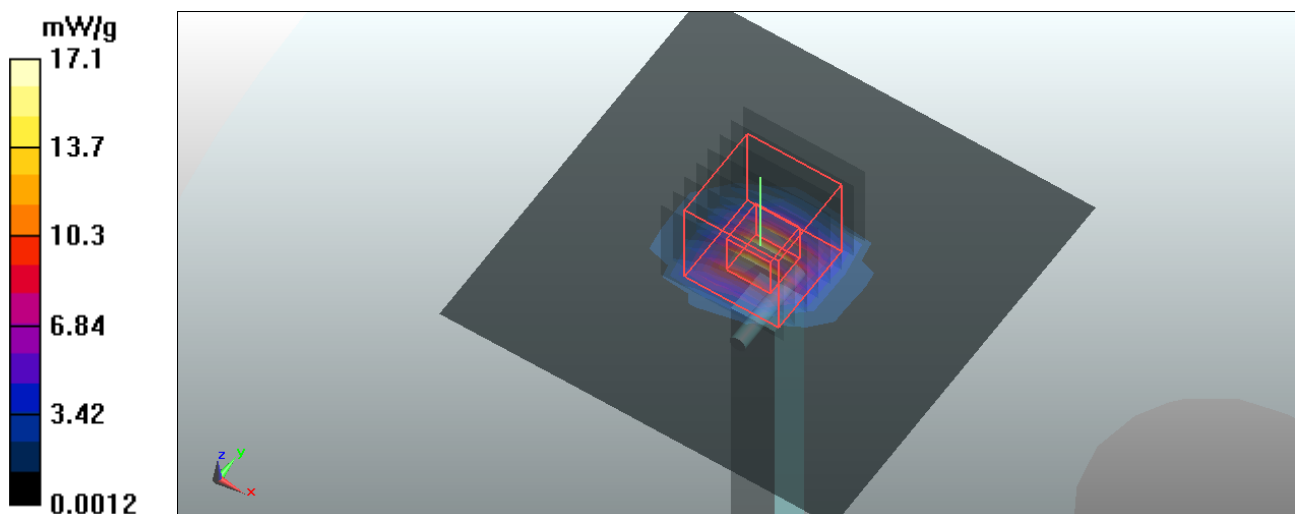
0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 66.1 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 33.7 W/kg

SAR(1 g) = 8.78 mW/g; SAR(10 g) = 2.51 mW/g

Maximum value of SAR (measured) = 17.1 mW/g



APPENDIX A: TEST DATA for Multi Band SAR



A D T

M01-Left Head Tilt WCDMA1900 ch9262 + 11A ch64 / 1D / 1.5X battery / numeric

DASY Configuration for Program/ch9262 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 162

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

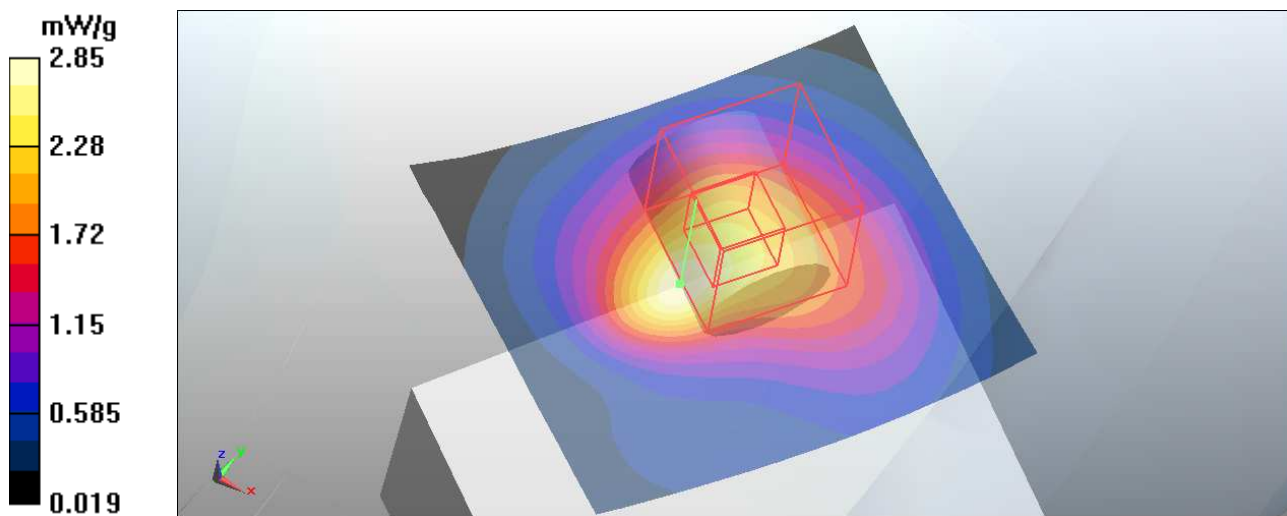
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 157

Multi Band Result:

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.786 mW/g

Maximum value of SAR (measured) = 2.85 mW/g



M02-Left Head Tilt WCDMA1900 ch9262 + 11A ch100 / 1D / 1.5X battery / numeric

DASY Configuration for Program/ch9262 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch100 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

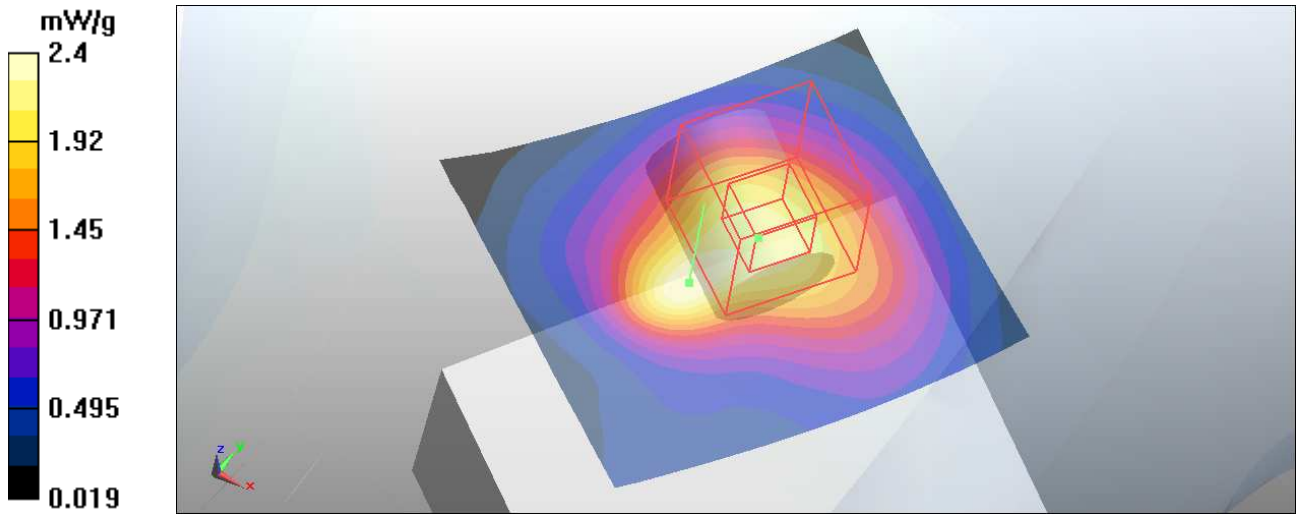
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

Multi Band Result:

SAR(1 g) = **1.34** mW/g; SAR(10 g) = **0.766** mW/g

Maximum value of SAR (measured) = 2.4 mW/g



M03-Left Head Tilt WCDMA1900 ch9400 + 11A ch64 / 1D / 1.5X battery / numeric

DASY Configuration for Program/ch9400 Volume/Volume Scan:

Date/Time: 2010/6/4
Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 162

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/4
Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

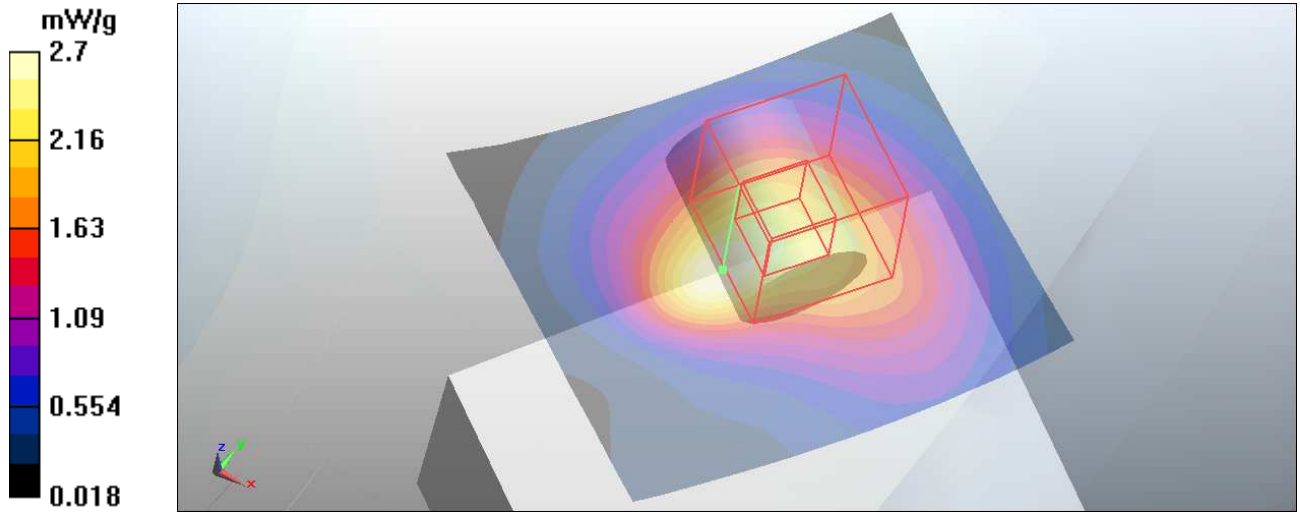
Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1
Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 157

Multi Band Result:

SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.783 mW/g

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



M04-Left Head Tilt WCDMA1900 ch9400 + 11A ch100 / 1D / 1.5X battery / numeric

DASY Configuration for Program/ch9400 Volume/Volume Scan:

Date/Time: 2010/6/4
Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch100 Volume/Volume Scan:

Date/Time: 2010/6/4
Test Laboratory: BVADT

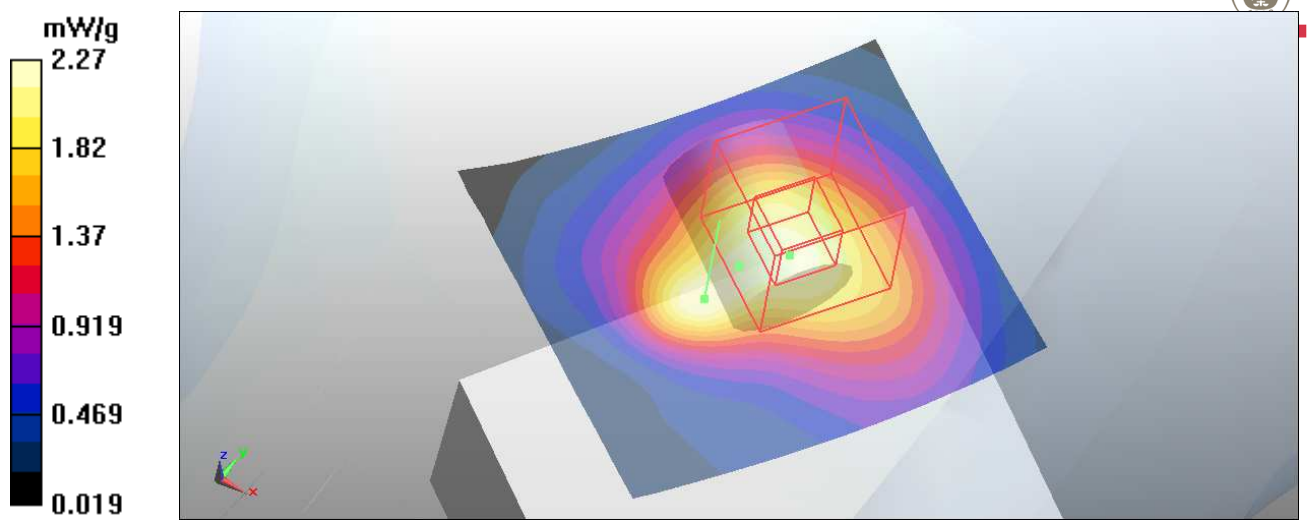
DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1
Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

Multi Band Result:

SAR(1 g) = **1.33** mW/g; SAR(10 g) = 0.767 mW/g
Maximum value of SAR (measured) = 2.27 mW/g





M05-Left Head Tilt WCDMA1900 ch9538 + 11A ch64 / 1D / 1.5X battery / numeric

DASY Configuration for Program/ch9538 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 162

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

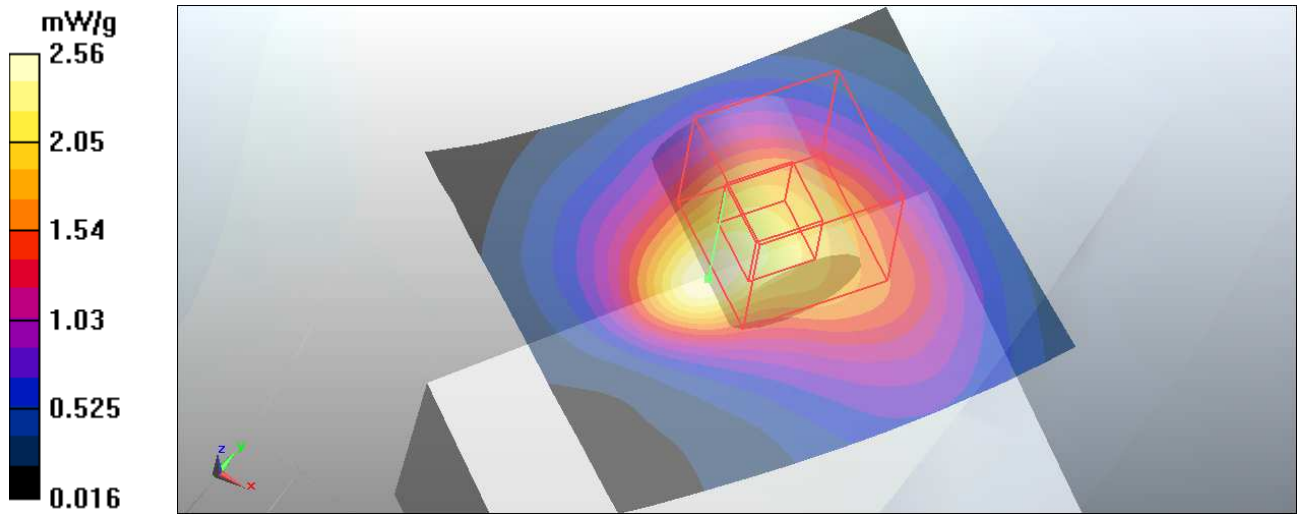
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 157

Multi Band Result:

SAR(1 g) = **1.24** mW/g; SAR(10 g) = 0.711 mW/g

Maximum value of SAR (measured) = 2.56 mW/g



M06-Left Head Tilt WCDMA1900 ch9538 + 11A ch100 / 1D / 1.5X battery / numeric

DASY Configuration for Program/ch9538 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch100 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

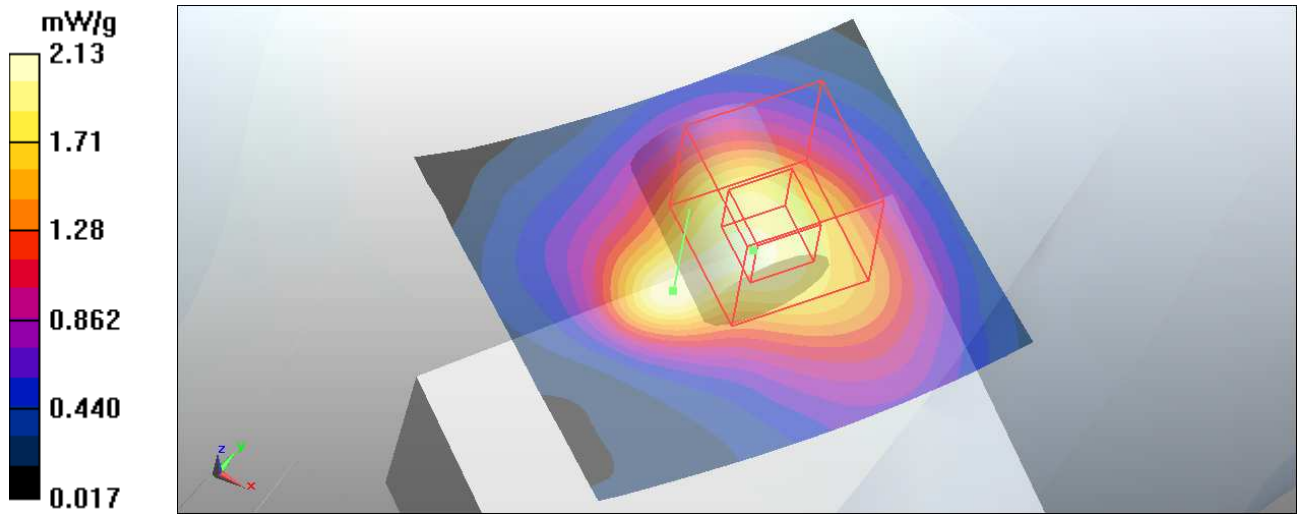
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

Multi Band Result:

SAR(1 g) = **1.21** mW/g; SAR(10 g) = 0.696 mW/g

Maximum value of SAR (measured) = 2.13 mW/g



M07-Left Head Tilt WCDMA1900-Ch9262+11A Ch64 / 1D / 1.5X battery / qwerty

DASY Configuration for Program/ch9262 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 162

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

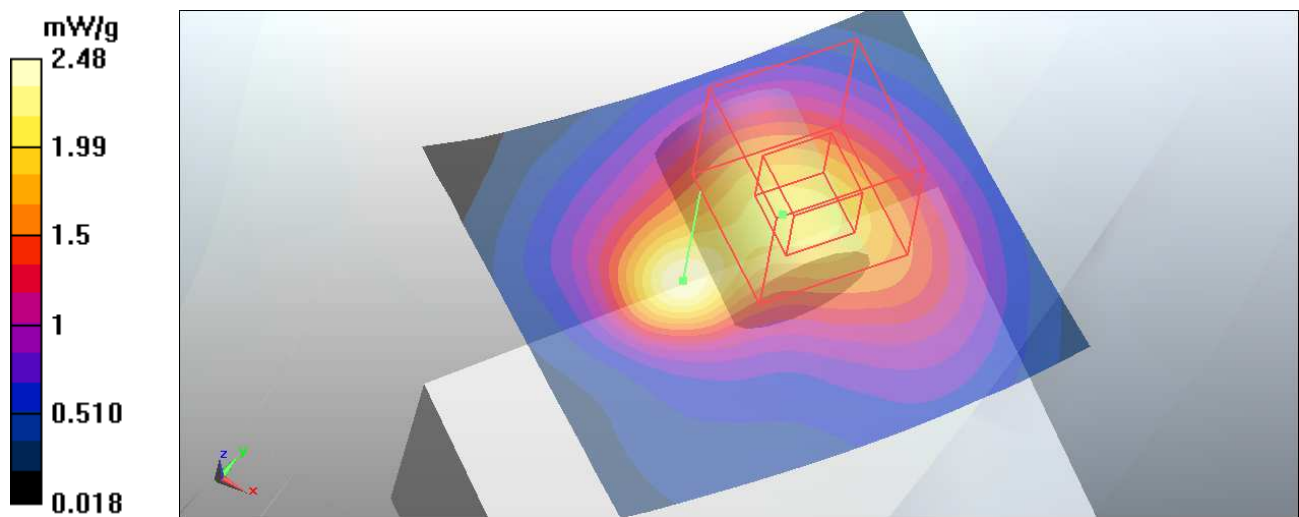
- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.736 mW/g

Maximum value of SAR (measured) = 2.48 mW/g



M08-Left Head Tilt WCDMA1900-Ch9262+11A Ch100 / 1D / 1.5X battery / qwerty

DASY Configuration for Program/ch9262 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch100 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

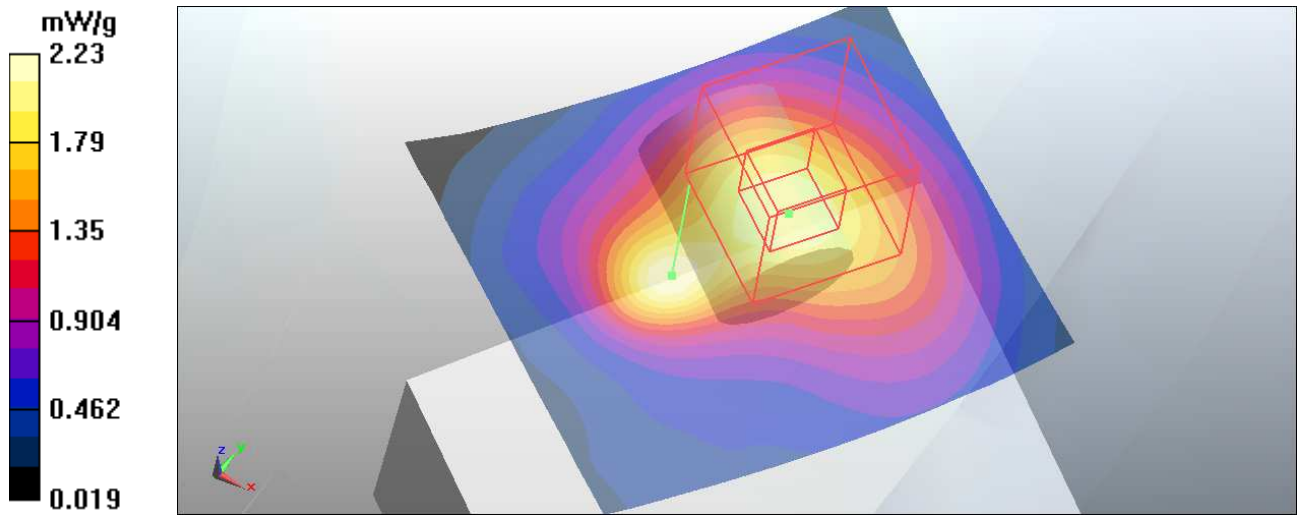
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.738 mW/g

Maximum value of SAR (measured) = 2.23 mW/g



M09-Left Head Tilt WCDMA1900-Ch9400+11A Ch64 / 1D / 1.5X battery / qwerty

DASY Configuration for Program/ch9400 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

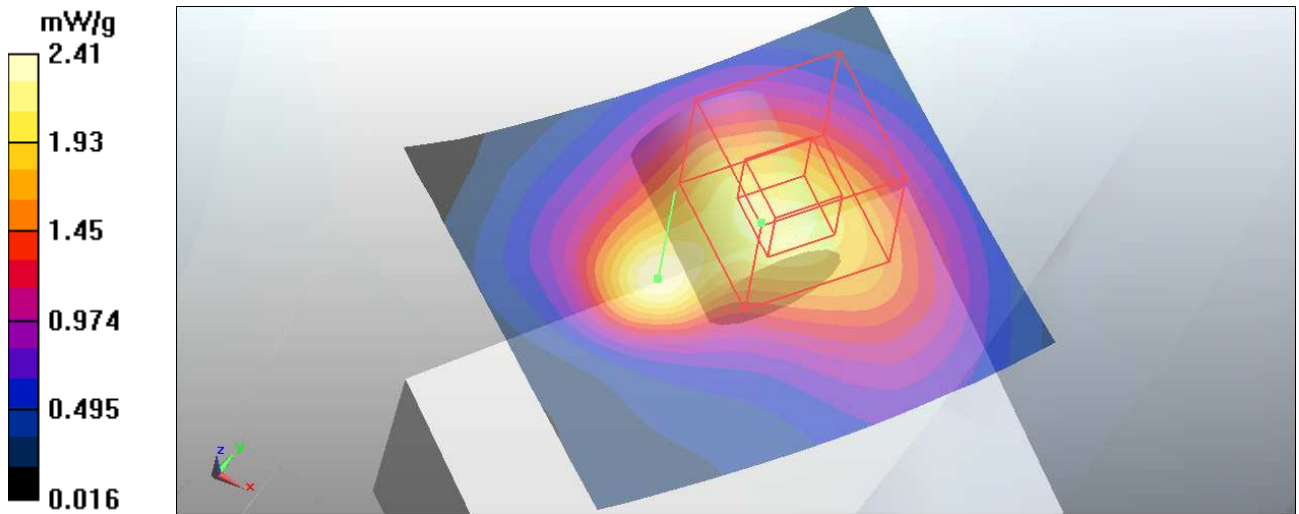
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

Multi Band Result:

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.767 mW/g

Maximum value of SAR (measured) = 2.41 mW/g



M10-Left Head Tilt WCDMA1900-Ch9400+11A Ch100 / 1D / 1.5X battery / qwerty

DASY Configuration for Program/ch9400 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch100 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

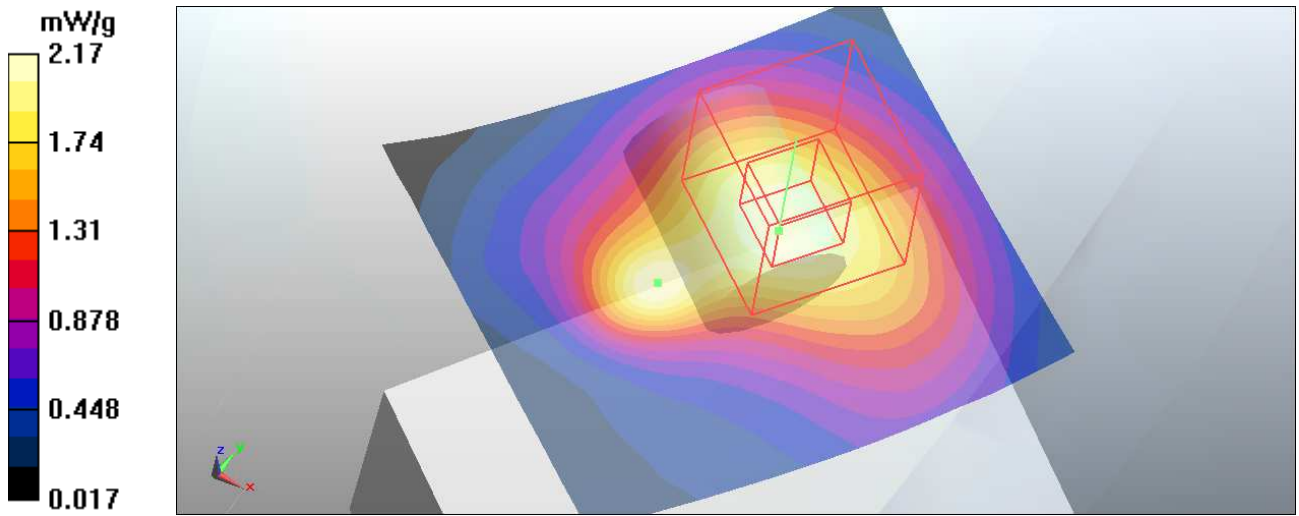
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

Multi Band Result:

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.771 mW/g

Maximum value of SAR (measured) = 2.17 mW/g



M11-Left Head Tilt WCDMA1900-Ch9538+11A Ch64 / 1D / 1.5X battery / qwerty

DASY Configuration for Program/ch9538 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.79$ mho/m; $\epsilon_r = 36.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

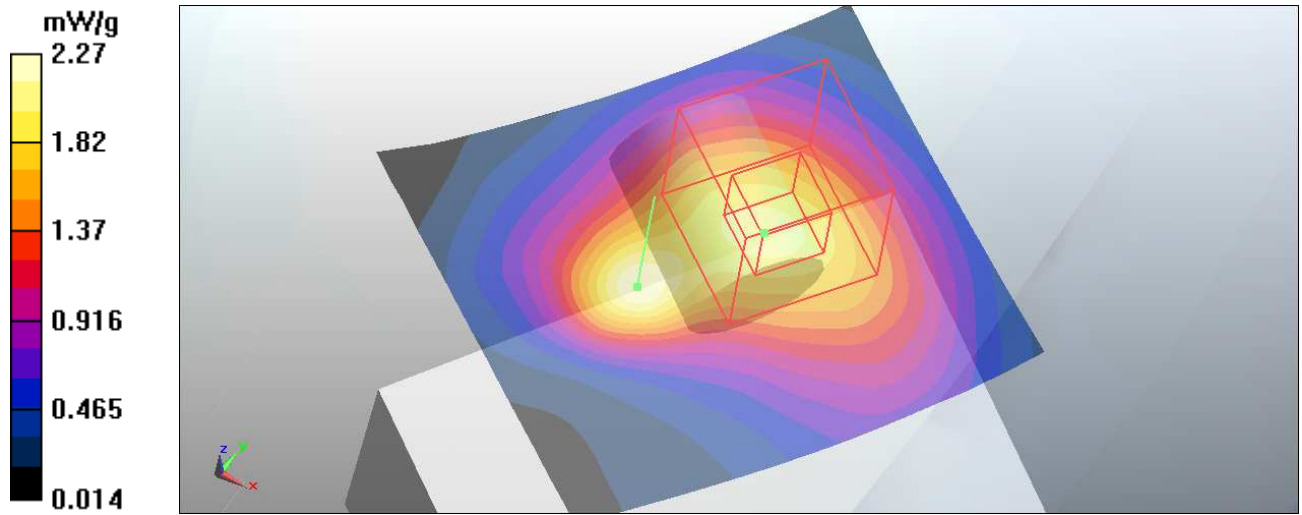
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.711 mW/g

Maximum value of SAR (measured) = 2.27 mW/g



M12-Left Head Tilt WCDMA1900-Ch9538+11A Ch100 / 1D / 1.5X battery / qwerty

DASY Configuration for Program/ch9538 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
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DASY Configuration for Program/11a ch100 Volume/Volume Scan:

Date/Time: 2010/6/4

Test Laboratory: BVADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.01$ mho/m; $\epsilon_r = 36.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

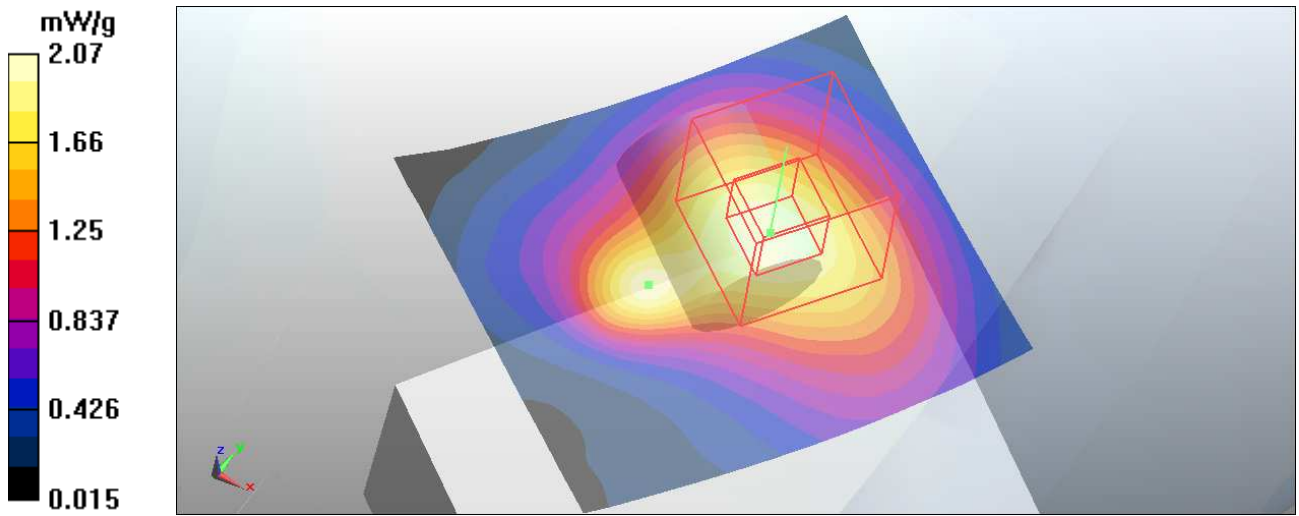
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

Multi Band Result:

SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.716 mW/g

Maximum value of SAR (measured) = 2.07 mW/g



M13-Left Head Tilt WCDMA1900-Ch9262+11A Ch64 / 2D / 1.5X battery / numeric

DASY Configuration for Program/ch9262 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.8$ mho/m; $\epsilon_r = 36.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

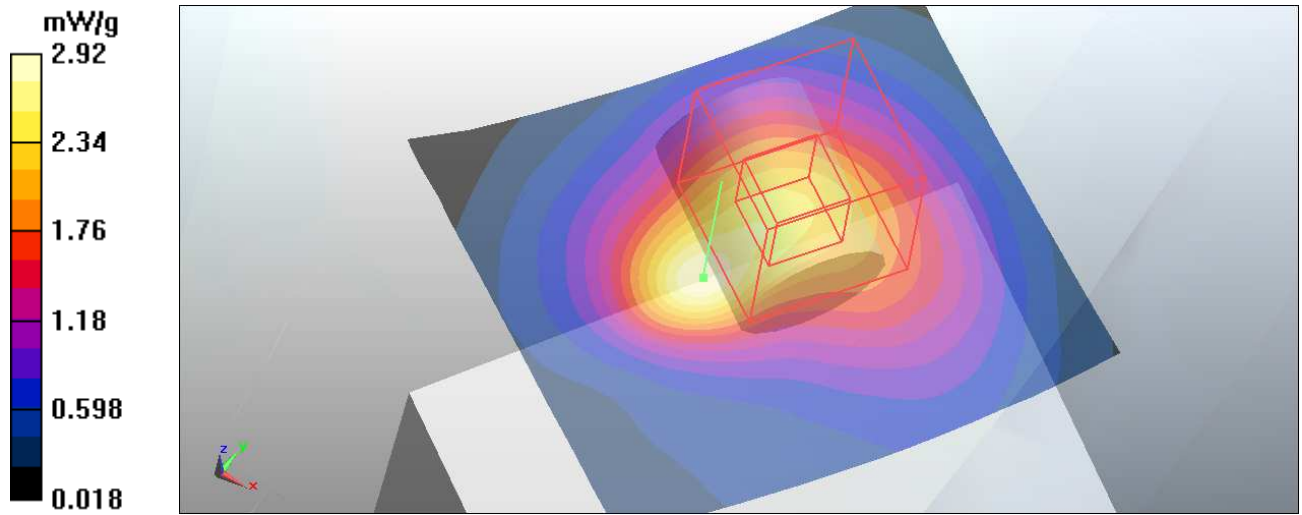
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.791 mW/g

Maximum value of SAR (measured) = 2.92 mW/g



M14-Left Head Tilt WCDMA1900-Ch9262+11A Ch100 / 2D / 1.5X battery / numeric

DASY Configuration for Program/ch9262 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch100Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.02$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

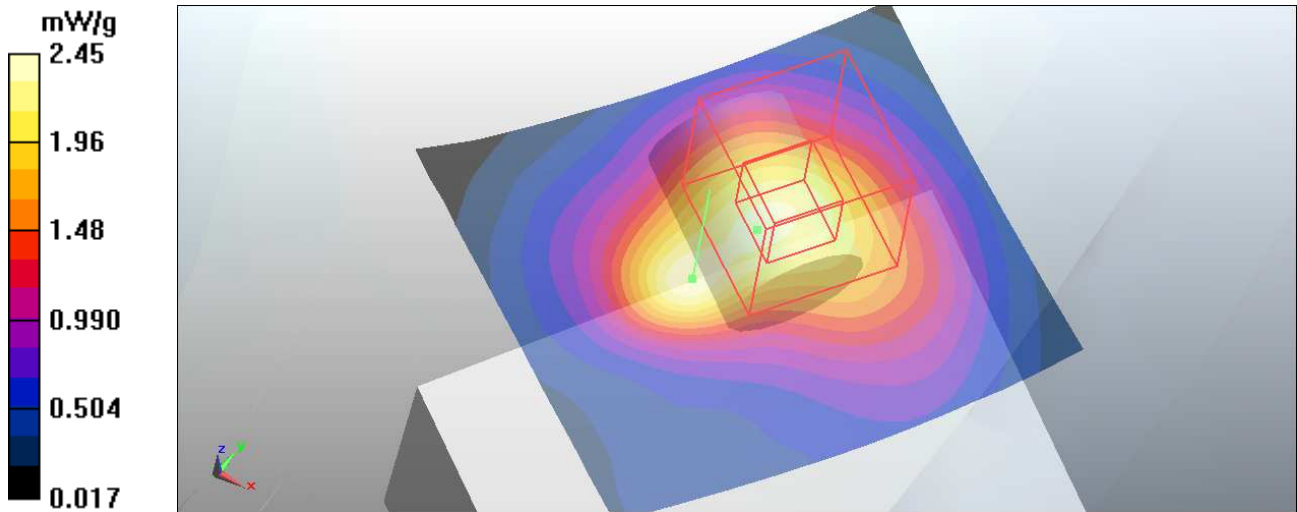
- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.770 mW/g

Maximum value of SAR (measured) = 2.45 mW/g



M15-Left Head Tilt WCDMA1900-Ch9400+11A Ch64 / 2D / 1.5X battery / numeric

DASY Configuration for Program/ch9400 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.8$ mho/m; $\epsilon_r = 36.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

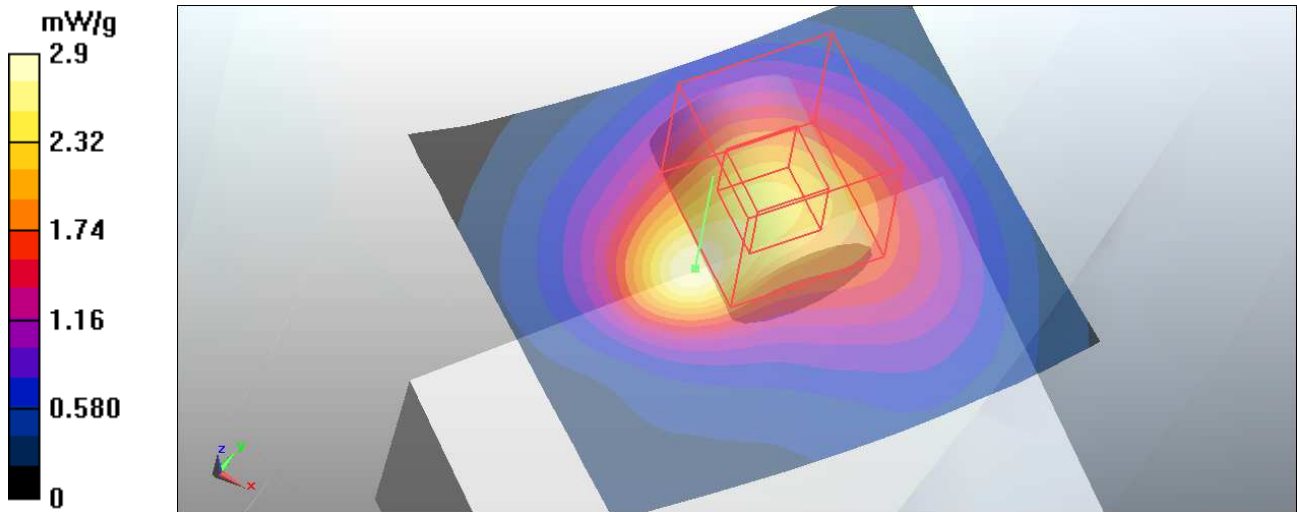
- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.817 mW/g

Maximum value of SAR (measured) = 2.9 mW/g



M16-Left Head Tilt WCDMA1900-Ch9400+11A Ch100 / 2D / 1.5X battery / numeric

DASY Configuration for Program/ch9400 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch100Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.02$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

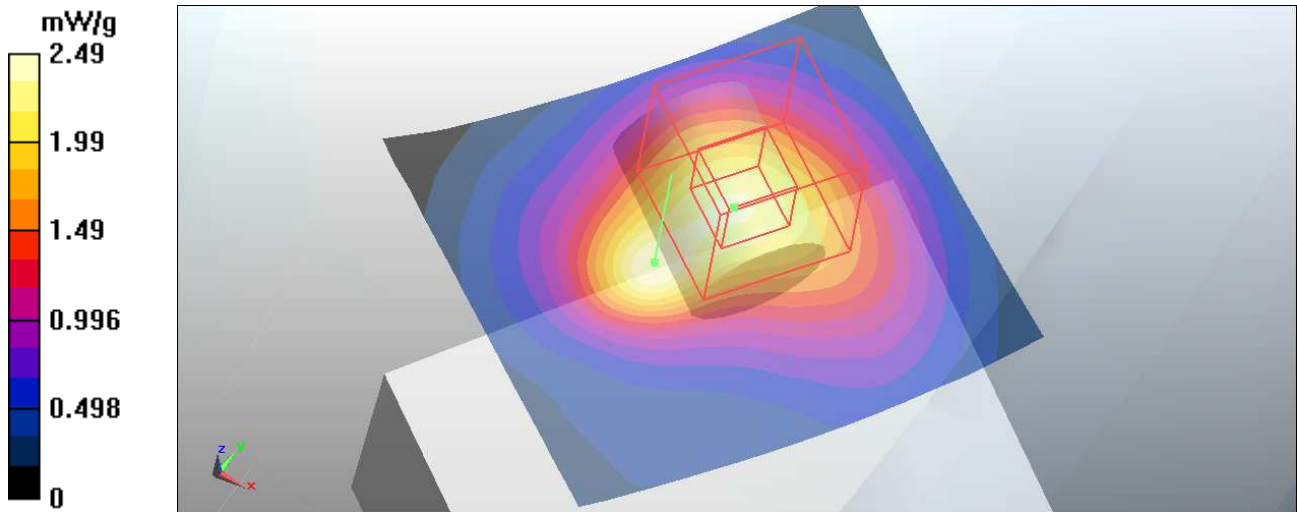
- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.795 mW/g

Maximum value of SAR (measured) = 2.49 mW/g



M17-Left Head Tilt WCDMA1900-Ch9538+11A Ch64 / 2D / 1.5X battery / numeric

DASY Configuration for Program/ch9538 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch64 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5200 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.8$ mho/m; $\epsilon_r = 36.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

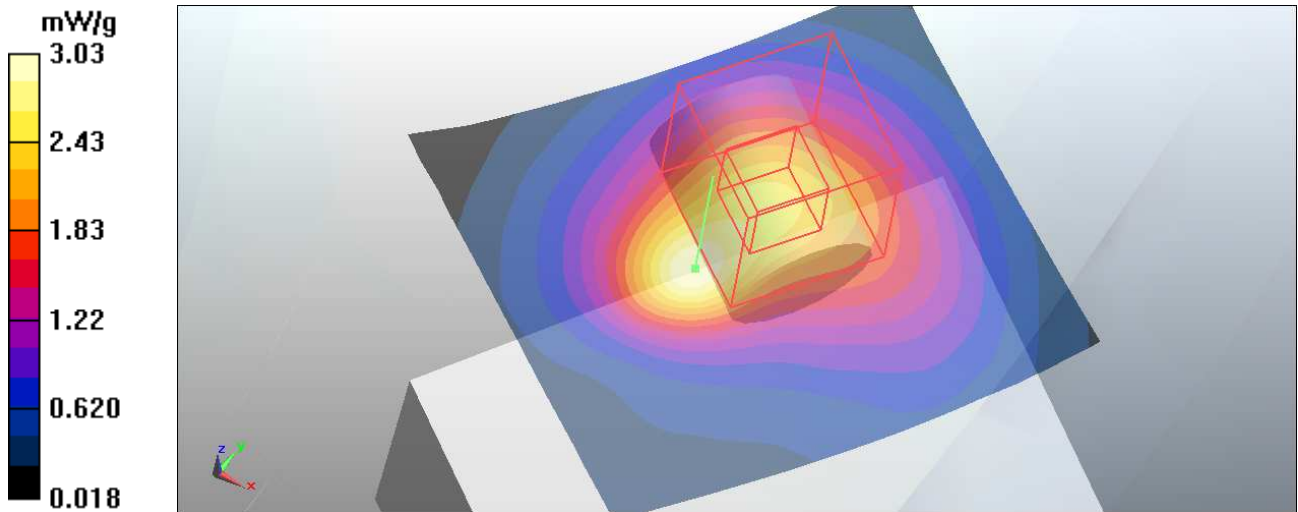
- Probe: EX3DV3 - SN3504; ConvF(4.62, 4.62, 4.62); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.810 mW/g

Maximum value of SAR (measured) = 3.03 mW/g



M18-Left Head Tilt WCDMA1900-Ch9538+11A Ch100 / 2D / 1.5X battery / numeric

DASY Configuration for Program/ch9538 Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(8.2, 8.2, 8.2); Calibrated: 2010/1/26
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn510; Calibrated: 2009/12/16
 - Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
 - Measurement SW: DASY5, V5.2 Build 162
-

DASY Configuration for Program/11a ch100Volume/Volume Scan:

Date/Time: 2010/6/5

Test Laboratory: BV ADT

DUT: EDA; Type: MC75A6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5500 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.02$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV3 - SN3504; ConvF(4.51, 4.51, 4.51); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2009/12/16
- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485
- Measurement SW: DASY5, V5.2 Build 162

Multi Band Result:

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.787 mW/g

Maximum value of SAR (measured) = 2.56 mW/g

