



SAR Test Report

Product Name : GSM Mobile Phone

Model No. : HUAWEI G7105

FCC ID : QISG7105A

Applicant : Huawei Technologies Co., Ltd.

Address : Bantian, Longgang District, Shenzhen, 518129 Guangdong,
P. R. China

Date of Receipt : 06/03/2012

Date of Test : 31/03/2012

Issued Date : 13/04/2012

Report No. : 123S017R-HP-US-P03V01

Report Version : V2.1

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Test Report Certification

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Product Name : GSM Mobile Phone

Applicant : Huawei Technologies Co., Ltd.

Address : Bantian, Longgang District, Shenzhen, 518129 Guangdong, P.
R. China

Manufacturer : Huawei Technologies Co., Ltd.

Address : Bantian, Longgang District, Shenzhen, 518129 Guangdong, P.
R. China

Model No. : HUAWEI G7105

FCC ID : QISG7105A

Brand Name : HUAWEI

EUT Voltage : DC 3.7V

Applicable Standard : FCC Oet65 Supplement C June 2001
IEEE Std. 1528-2003,47CFR § 2.1093

Test Result : Max. SAR Measurement (1g)
Head:
PCE 1.11 W/kg, DSS 0.011 W/kg; Sum-SAR = 1.121 W/kg
Body:
PCE 1.3 W/kg, DSS 0.006 W/kg; Sum-SAR = 1.306 W/kg

Performed Location : Suzhou EMC Laboratory
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Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

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China	:	CNAS

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The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :

<http://www.quietek.com/>

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1. General Information

1.1. EUT Description

Product Name	GSM Mobile Phone
Model No.	HUAWEI G7105
IMEI	867874000003665
Hardware Version	P2
Software Version	HUAWEI_G7105_D_V100R001B201C00SP02
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
2G	
Support Band	GSM850/GSM900/DCS1800/PCS1900
GPRS Type	Class B
GPRS Class	Class 12
Uplink	GSM 850: 824~849MHz PCS 1900: 1850~1910MHz
Downlink	GSM 850: 869~894MHz PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GSM/GPRS
Antenna Gain	0.90dBi for GSM850 0.41dBi for PCS1900
Max. Output Power (Conducted)	GSM850: 32.65dBm PCS1900: 29.30dBm
Max. Output Power (Radiated)	GSM850: 31.65dBm- ERP PCS1900: 29.43dBm- EIRP
Bluetooth	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V2.1+EDR
Type of modulation	FHSS
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Antenna Gain	2.6dBi
Max. Output Power (Average)	2.92dBm
Components	
Battery	Brand Name: HUAWEI

	M/N: HB5D1 Rated Voltage and Capacitance: 3.7V/800 mAh
Adapter	Brand Name: HUAWEI M/N: HS-050040U6 Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 400mA

1.2. Test Procedure

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	EUT communicate with CMU 200, and test them respectively.

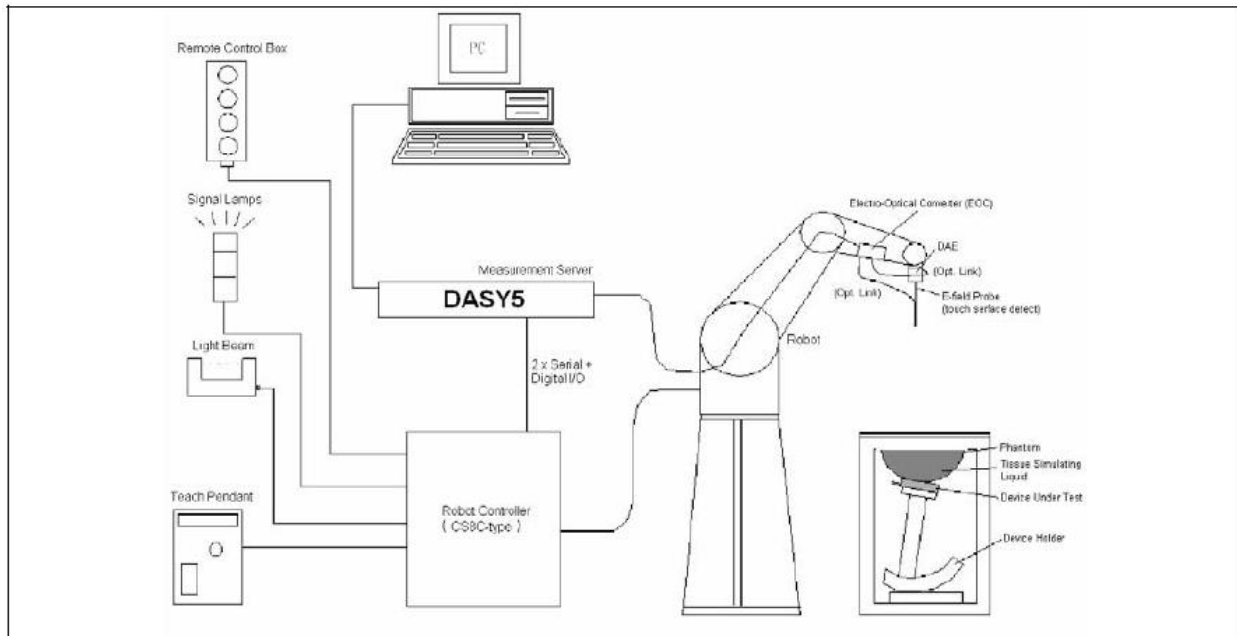
1.3. Test Environment

Ambient conditions in the laboratory:

Items	Required	Actual
Temperature (°C)	18-25	21.5± 2
Humidity (%RH)	30-70	52

2. SAR Measurement System

2.1. DASY5 System Description



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

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

2.1.1. Applications

Predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50360, EN 50383 and others.

2.1.2. Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm^2 step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2003 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan).

2.1.3. Zoom Scan (Cube Scan Averaging)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m^3 is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications utilize a physical step of $7\times 7\times 7$ (5mmx5mmx5mm) providing a volume of 30mm in the X & Y axis, and 30mm in the Z axis.

2.1.4. Uncertainty of Inter-/Extrapolation and Averaging

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Postprocessor, DASY5 allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions of IEEE 1528. The three analytical functions shown in equations as below are used to describe the possible range of the expected SAR distributions for the tested handsets. The field gradients are covered by the spatially flat distribution f1, the spatially steep distribution f3 and f2 accounts for H-field cancellation on the phantom/tissue surface.

$$f_1(x, y, z) = Ae^{-\frac{z}{2a}} \cos^2 \left(\frac{\pi \sqrt{x'^2 + y'^2}}{2 \cdot 5a} \right)$$

$$f_2(x, y, z) = Ae^{-\frac{z}{a}} \frac{a^2}{a^2 + x'^2} \left(3 - e^{-\frac{2z}{a}} \right) \cos^2 \left(\frac{\pi y'}{2 \cdot 3a} \right)$$

$$f_3(x, y, z) = A \frac{a^2}{\frac{a^2}{4} + x'^2 + y'^2} \left(e^{-\frac{2z}{a}} + \frac{a^2}{2(a + 2z)^2} \right)$$

2.2. DASY5 E-Field Probe

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

SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN 62209-1, IEC 62209, etc.) under ISO 17025. The calibration data are in Appendix D.

2.2.1. Isotropic E-Field Probe Specification

Model	EX3DV4	
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB (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%.	

2.3. Boundary Detection Unit and Probe Mounting Device

The DASY5 probes use a precise connector and an additional holder for the probe, consisting of a plastic tube and a flexible silicon ring to center the probe. The connector at the DAE is flexibly mounted and held in the default position with magnets and springs. Two switching systems in the connector mount detect frontal and lateral probe collisions and trigger the necessary software response.



2.4. DATA Acquisition Electronics (DAE) and Measurement Server

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit.

Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE4 is 200M Ohm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



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



2.5. Robot

The DASY5 system uses the high precision robots TX90 XL type out of the newer series from Stäubli SA (France). For the 6-axis controller DASY5 system, the CS8C robot controller version from Stäubli is used.

The XL robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller



2.6. Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



2.7. Device Holder

The DASY5 device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles.

The DASY5 device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r \approx 3$ 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.



2.8. SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- Left head
- Right head
- Flat phantom



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

3. Tissue Simulating Liquid

3.1. The composition of the tissue simulating liquid

INGREDIENT (% Weight)	835MHz Head	835MHz Body	1900MHz Head	1900MHz Body	2450MHz Head	2450MHz Body
Water	40.45	52.4	54.90	40.5	46.7	73.2
Salt	1.45	1.40	0.18	0.50	0.00	0.04
Sugar	57.6	45.0	0.00	58.0	0.00	0.00
HEC	0.40	1.00	0.00	0.50	0.00	0.00
Preventol	0.10	0.20	0.00	0.50	0.00	0.00
DGBE	0.00	0.00	44.92	0.00	53.3	26.7

3.2. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY5 Dielectric Probe Kit and Agilent Vector Network Analyzer E5071C

Head Tissue Simulant Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
835 MHz	Reference result ± 5% window	41.50 39.43 to 43.58	0.90 0.86 to 0.95	N/A
	31-03-2012	42.78	0.88	21.0
1900 MHz	Reference result ± 5% window	40.00 38.00 to 42.00	1.40 1.33 to 1.47	N/A
	31-03-2012	39.08	1.44	21.0
2450MHz	Reference result ± 5% window	39.2 37.24 to 41.16	1.80 1.71 to 1.89	N/A
	31-03-2012	39.67	1.81	21.0

Body Tissue Simulant Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
835 MHz	Reference result ± 5% window	55.2 52.44 to 57.96	0.97 0.92 to 1.02	N/A
	31-03-2012	54.54	0.96	21.0
1900 MHz	Reference result ± 5% window	53.3 50.64 to 55.97	1.52 1.44 to 1.60	N/A
	31-03-2012	53.5	1.56	21.0
2450MHz	Reference result ± 5% window	52.7 50.07 to 55.34	1.95 1.85 to 2.05	N/A
	31-03-2012	52.06	1.99	21.0

3.3. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

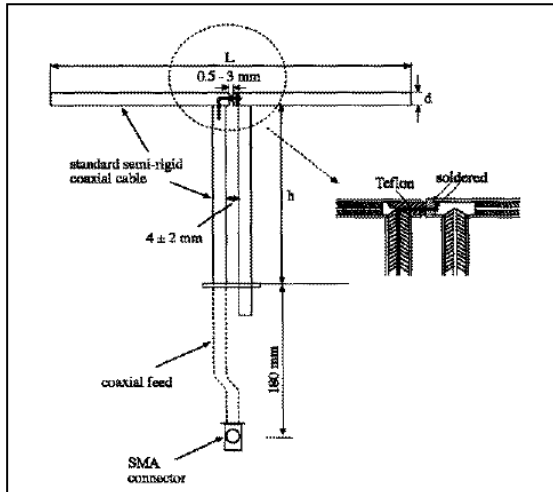
Target Frequency	Head		Body	
(MHz)	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

4. SAR Measurement Procedure

4.1. SAR System Validation

4.1.1. Validation Dipoles



The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and electrical specifications for the dipoles.

Frequency	L (mm)	h (mm)	d (mm)
835MHz	161.0	89.8	3.6
1900MHz	68.0	39.5	3.6
2450MHz	51.5	30.4	3.6

4.1.2. Validation Result

System Performance Check at 835MHz &1900MHz &2450MHz for Head				
Validation Kit: D835V2-SN 4d120				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
835 MHz	Reference result ± 10% window	9.70 8.73 to 10.67	6.30 5.67 to 6.93	N/A
	31-03-2012	9.04	5.88	21.0
Validation Kit: D1900V2-SN 5d142				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
1900 MHz	Reference result ± 10% window	39.4 35.46 to 43.34	20.7 18.63 to 22.77	N/A
	31-03-2012	37.96	19.36	21.0
Validation Dipole: D2450V2, SN: 839				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
2450 MHz	Reference result ± 10% window	51.9 46.71 to 57.09	24.1 21.69 to 26.51	N/A
	31-03-2012	51.2	22.84	21.0
Note: All SAR values are normalized to 1W forward power.				
System Performance Check at 835MHz &1900MHz &2450MHz for Body				
Validation Kit: D835V2-SN 4d120				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
835 MHz	Reference result ± 10% window	9.90 8.91 to 10.89	6.53 5.88 to 7.18	N/A
	31-03-2012	9.52	6.16	21.0
Validation Kit: D1900V2-SN 5d142				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
1900 MHz	Reference result ± 10% window	40.5 36.45 to 44.55	21.3 19.17 to 23.43	N/A
	31-03-2012	39.84	20.44	21.0

Validation Dipole: D2450V2, SN: 839				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
2450 MHz	Reference result ± 10% window	48.7 43.83 to 53.57	22.8 20.52 to 25.08	N/A
	31-03-2012	49.2	22.48	21.0
Note: All SAR values are normalized to 1W forward power.				

4.2. SAR Measurement Procedure

The DASY5 calculates SAR using the following equation,

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

σ : represents the simulated tissue conductivity

ρ : represents the tissue density

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1mm^2) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm^3).

5. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 “Uncontrolled Environments” limits. These limits apply to a location which is deemed as “Uncontrolled Environment” which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit
Spatial Peak SAR (1g cube tissue for brain or body)	1.60 W/kg
Spatial Average SAR (whole body)	0.08 W/kg
Spatial Peak SAR (10g for hands, feet, ankles and wrist)	4.00 W/kg

6. Test Equipment List

Instrument	Manufacturer	Model No.	Serial No.	Cali. Due Date
Stäubli Robot TX60L	Stäubli	TX60L	F10/5C90A1/A/01	only once
Controller	Stäubli	SP1	S-0034	only once
Dipole Validation Kits	Speag	D835V2	4d094	2013.02.17
Dipole Validation Kits	Speag	D1900V2	5d121	2013.02.22
Dipole Validation Kits	Speag	D2450V2	839	2013.02.23
SAM Twin Phantom	Speag	SAM	TP-1561/1562	N/A
Device Holder	Speag	SD 000 H01 HA	N/A	N/A
Data Acquisition Electronic	Speag	DAE4	1220	2013.01.23
E-Field Probe	Speag	EX3DV4	3710	2013.03.12
SAR Software	Speag	DASY5	V5.2 Build 162	N/A
Power Amplifier	Mini-Circuit	ZVA-183-S+	N657400950	N/A
Directional Coupler	Agilent	778D	20160	N/A
Universal Radio Communication Tester	R&S	CMU 200	117088	2012.04.29
Vector Network	Agilent	E5071C	MY48367267	2012.04.10
Signal Generator	Agilent	E4438C	MY49070163	2012.04.23
Power Meter	Anritsu	ML2495A	0905006	2013.01.12
Wide Bandwidth Sensor	Anritsu	MA2411B	0846014	2013.01.12

7. Measurement Uncertainty

DASY5 Uncertainty								
Measurement uncertainty for 300 MHz to 3 GHz averaged over 1 gram / 10 gram.								
Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(vi) V _{eff}
Measurement System								
Probe Calibration	±6.0%	N	1	1	1	±6.0%	±6.0%	∞
Axial Isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	$\sqrt{3}$	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power Drift	±5.0%	R	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
Phantom and Setup								
Phantom Uncertainty	±4.0%	R	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
Liquid Conductivity (target)	±5.0%	R	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
Liquid Conductivity (meas.)	±2.5%	N	1	0.64	0.43	±1.6%	±1.1%	∞
Liquid Permittivity (target)	±5.0%	R	$\sqrt{3}$	0.6	0.49	±1.7%	±1.4%	∞
Liquid Permittivity (meas.)	±2.5%	N	1	0.6	0.49	±1.5%	±1.2%	∞
Combined Std. Uncertainty						±11.0%	±10.8%	387
Expanded STD Uncertainty						±22.0%	±21.5%	

8. Conducted Power Measurement

Mode	Frequency (MHz)	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)
Maximum Power				
GSM850	824.2	32.65	-9	23.65
	836.4	32.59	-9	23.59
	848.8	32.60	-9	23.60
PCS1900	1850.2	29.30	-9	20.30
	1880.0	29.29	-9	20.29
	1909.8	29.16	-9	20.16
GPRS850(2 Slot)	824.2	31.14	-6	25.14
	836.4	31.08	-6	25.08
	848.8	31.07	-6	25.07
GPRS850(3 Slot)	824.2	29.58	-4.25	25.33
	836.4	29.51	-4.25	25.26
	848.8	29.52	-4.25	25.27
GPRS850(4 Slot)	824.2	27.54	-3	24.54
	836.4	27.48	-3	24.48
	848.8	27.43	-3	24.43
GPRS1900(2 Slot)	1850.2	27.81	-6	21.81
	1880.0	27.87	-6	21.87
	1909.8	27.78	-6	21.78
GPRS1900(3 Slot)	1850.2	26.40	-4.25	22.15
	1880.0	26.35	-4.25	22.10
	1909.8	26.15	-4.25	21.90
GPRS1900(4 Slot)	1850.2	24.51	-3	21.51
	1880.0	24.46	-3	21.46
	1909.8	24.16	-3	21.16

9. Test Results

9.1. SAR Test Results Summary

9.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE1528, and Body SAR was performed with the device 15mm from the phantom. Body SAR was also performed with the headset attached and without.

9.1.2. Body SAR with Headset

Testing with the headset was performed at the position and channels that resulted in the highest body SAR. This testing was performed with GPRS transmitting with 2/3/4 uplink timeslots. This operation mode represents the maximum SAR situation, when downloading data via GPRS and listening to music by headset. SAR without the headset attached was significantly higher than with the headset, and also was verified several times and confirmed, so the final test data shown were the worst case without headset.

In the Body SAR test result table, body-worn means display of device down, body-front means display of device up.

9.1.3. Operation Mode

This is a multislot class 12 device capable of 4 uplink timeslots. During the head SAR test, the device was transmitting with 1 uplink timeslot; during the body SAR test, it was transmitting with 2/3/4 uplink timeslots. Additionally, this device doesn't support dual transfer mode (DTM).

9.1.4. Co-located SAR

According to KDB 447498 and KDB 648474, the max. Bluetooth output power is $2.92\text{dBm} < P_{\text{Ref}}$, the closest separation between GSM antenna and BT antenna is $2.3\text{cm} < 2.5\text{cm}$, but the max. GSM SAR is more than 1.2W/kg , so Bluetooth stand-alone SAR is required.

(BT Max. Head SAR) $0.011\text{W/kg} + (\text{GSM/GPRS Max. Head SAR})1.11\text{W/kg} < 1.6\text{W/kg}$.

(BT Max. Body SAR) $0.006\text{W/kg} + (\text{GSM/GPRS Max. Body SAR})1.3\text{W/kg} < 1.6\text{W/kg}$.

The sum SAR is less than 1.6W/kg , so simultaneous SAR is not required.

Other reference document: KDB 941225

9.1.5. Test Result

SAR MEASUREMENT							
Ambient Temperature (°C) : 21.5 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15			
Product: GSM Mobile Phone							
Test Mode: GSM850							
Test Position Head	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz				
Left-Cheek	Fixed	128	824.2	23.65	0.14	0.663	1.6
Left-Cheek	Fixed	189	836.4	23.59	-0.12	0.935	1.6
Left-Cheek	Fixed	251	848.8	23.60	-0.04	1.1	1.6
Left-Tilted	Fixed	189	836.4	23.59	-0.04	0.473	1.6
Right-Cheek	Fixed	128	824.2	23.65	0.05	0.629	1.6
Right-Cheek	Fixed	189	836.4	23.59	0.12	0.911	1.6
Right-Cheek	Fixed	251	848.8	23.60	0.10	1.11	1.6
Right-Tilted	Fixed	189	836.4	23.59	0.19	0.500	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.							

SAR MEASUREMENT								
Ambient Temperature (°C) : 21.5 ±2					Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2					Depth of Liquid (cm):>15			
Product: GSM Mobile Phone								
Test Mode: GSM850								
Test Position Body	Antenna Position	Frequency		Separation Distance (mm)	Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz					
Body-worn	Fixed	128	824.2	15	23.65	--	--	1.6
Body-worn	Fixed	189	836.4	15	23.59	-0.06	0.787	1.6
Body-worn	Fixed	251	848.8	15	23.60	--	--	1.6
Body-worn (With Headset)	Fixed	189	836.4	15	23.59	-0.04	0.597	1.6
Test Mode: GPRS850 2slot								
Body-worn	Fixed	189	836.4	15	25.08	-0.001	1.22	1.6
Test Mode: GPRS850 3slot								
Body-worn	Fixed	128	824.2	15	25.33	-0.02	0.955	1.6
Body-worn	Fixed	189	836.4	15	25.26	-0.008	1.3	1.6
Body-worn	Fixed	251	848.8	15	25.27	0.07	1.19	1.6
Body-front	Fixed	189	836.4	15	25.26	-0.15	1.04	1.6
Body-worn (With Headset)	Fixed	189	836.4	15	25.26	-0.02	0.952	1.6
Test Mode: GPRS850 4slot								
Body-worn	Fixed	189	836.4	15	24.48	-0.19	1.12	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.								

SAR MEASUREMENT							
Ambient Temperature (°C) : 21.5 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15			
Product: GSM Mobile Phone							
Test Mode: PCS1900							
Test Position Head	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz				
Left-Cheek	Fixed	512	1850.2	20.30	--	--	1.6
Left-Cheek	Fixed	661	1880.0	20.29	-0.04	0.446	1.6
Left-Cheek	Fixed	810	1909.8	20.16	--	--	1.6
Left-Tilted	Fixed	661	1880.0	20.29	-0.10	0.216	1.6
Right-Cheek	Fixed	512	1850.2	20.30	--	--	1.6
Right-Cheek	Fixed	661	1880.0	20.29	-0.11	0.443	1.6
Right-Cheek	Fixed	810	1909.8	20.16	--	--	1.6
Right-Tilted	Fixed	661	1880.0	20.29	-0.09	0.207	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.							

SAR MEASUREMENT								
Ambient Temperature (°C) : 21.5 ±2					Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2					Depth of Liquid (cm):>15			
Product: GSM Mobile Phone								
Test Mode: PCS1900								
Test Position Body	Antenna Position	Frequency		Separation Distance (mm)	Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz					
Body-worn	Fixed	512	1850.2	15	20.30	--	--	1.6
Body-worn	Fixed	661	1880.0	15	20.29	0.18	0.187	1.6
Body-worn	Fixed	810	1909.8	15	20.16	--	--	1.6
Body-worn (With Headset)	Fixed	661	1880.0	15	20.29	-0.06	0.183	1.6
Test Mode: GPRS1900 2slot								
Body-worn	Fixed	661	1880.0	15	21.87	-0.002	0.269	1.6
Test Mode: GPRS1900 3slot								
Body-worn	Fixed	512	1850.2	15	22.15	--	--	1.6
Body-worn	Fixed	661	1880.0	15	22.10	0.12	0.283	1.6
Body-worn	Fixed	810	1909.8	15	21.90	--	--	1.6
Body-front	Fixed	661	1880.0	15	22.10	-0.17	0.209	1.6
Body-worn (With Headset)	Fixed	661	1880.0	15	22.10	0.009	0.230	1.6
Test Mode: GPRS1900 4slot								
Body-worn	Fixed	661	1880.0	15	21.46	-0.13	0.252	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.								

SAR MEASUREMENT							
Ambient Temperature (°C) : 21.5 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15			
Product: GSM Mobile Phone							
Test Mode: Bluetooth							
Test Position Head	Antenna Position	Frequency		Average Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz				
Left-Cheek	Fixed	0	2402	2.20	--	--	1.6
Left-Cheek	Fixed	39	2441	2.74	--	--	1.6
Left-Cheek	Fixed	79	2480	2.92	0.17	0.005	1.6
Left-Tilted	Fixed	79	2480	2.92	--	--	1.6
Right-Cheek	Fixed	0	2402	2.20	--	--	1.6
Right-Cheek	Fixed	39	2441	2.74	--	--	1.6
Right-Cheek	Fixed	79	2480	2.92	0.14	0.011	1.6
Right-Tilted	Fixed	79	2480	2.92	--	--	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.							

SAR MEASUREMENT								
Ambient Temperature (°C) : 21.5 ±2					Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2					Depth of Liquid (cm):>15			
Product: GSM Mobile Phone								
Test Mode: Bluetooth								
Test Position Body	Antenna Position	Frequency		Separation Distance (mm)	Average Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz					
Body-worn	Fixed	0	2402	15	2.20	--	--	1.6
Body-worn	Fixed	39	2441	15	2.74	--	--	1.6
Body-worn	Fixed	79	2480	15	2.92	0.11	0.005	1.6
Body-front	Fixed	79	2480	15	2.92	0.18	0.002	1.6
Body-worn (With Headset)	Fixed	79	2480	15	2.92	0.19	0.006	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.								

Appendix A. SAR System Validation Data

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

System Check Head 835MHz

DUT: Dipole 835 MHz D835V2; Type: D835V2

Communication System: CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;

Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 42.78$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

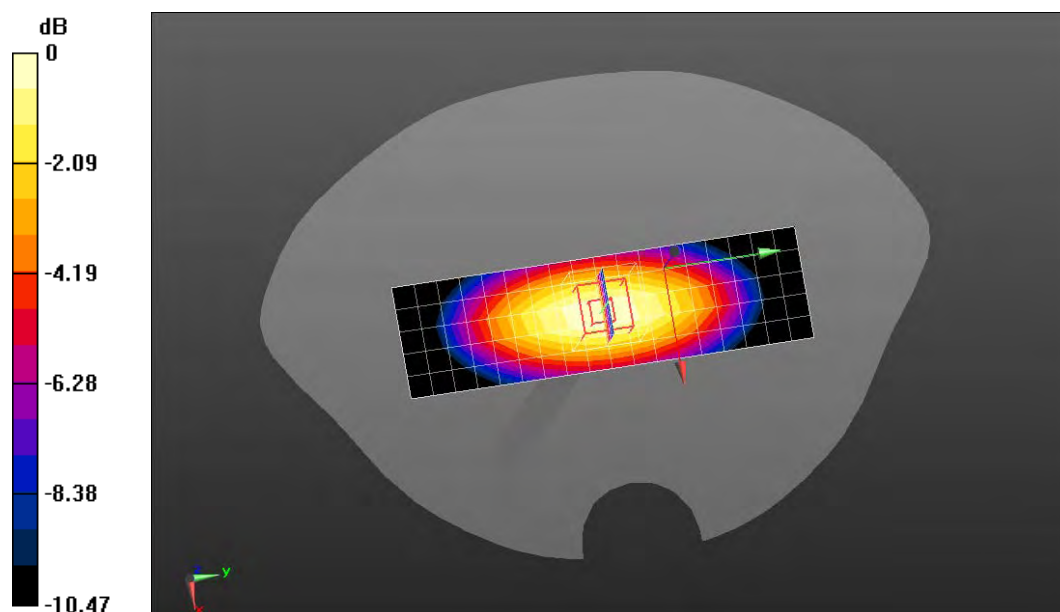
- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/System Check 835MHz Head/Area Scan (6x19x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 2.285 mW/g

Configuration/System Check 835MHz Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 52.652 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.3760

SAR(1 g) = 2.26 mW/g; SAR(10 g) = 1.47 mW/g Maximum value of SAR (measured) = 2.434 mW/g



0 dB = 2.430mW/g = 7.71 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

System Check Body 835MHz

DUT: Dipole 835 MHz D835V2; Type: D835V2

Communication System: CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;

Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.54$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

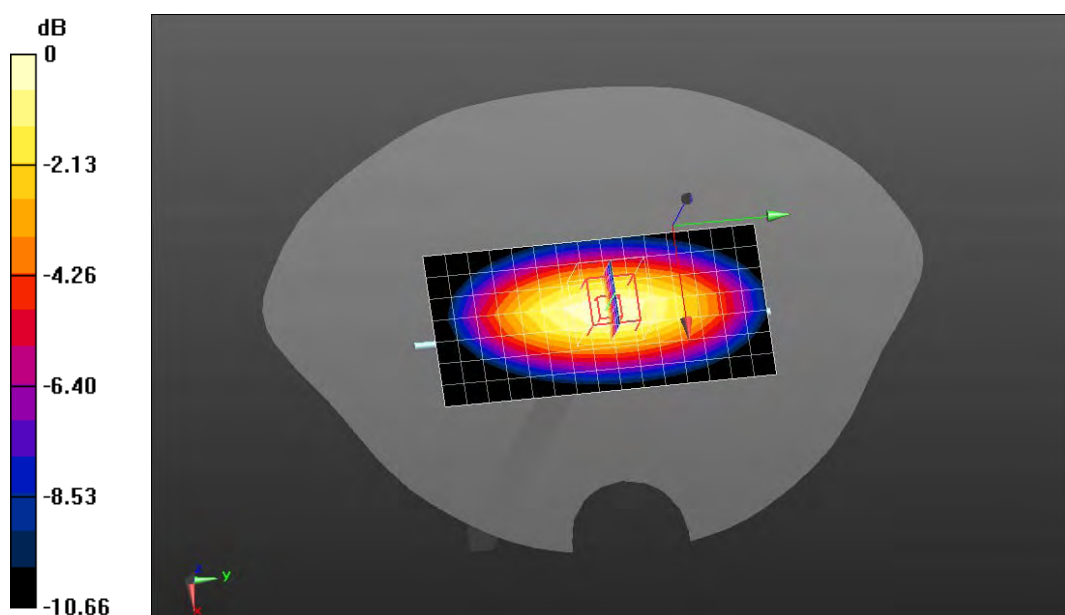
Configuration/System Check 835MHz Body/Area Scan (8x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.492 mW/g

Configuration/System Check 835MHz Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 51.465 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.6120

SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.54 mW/g Maximum value of SAR (measured) = 2.566 mW/g



0 dB = 2.570mW/g = 8.20 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

System Check Head 1900MHz

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle: 1:1;

Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.08$; $\rho = 1000$

kg/m³; Phantom section: Flat Section; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

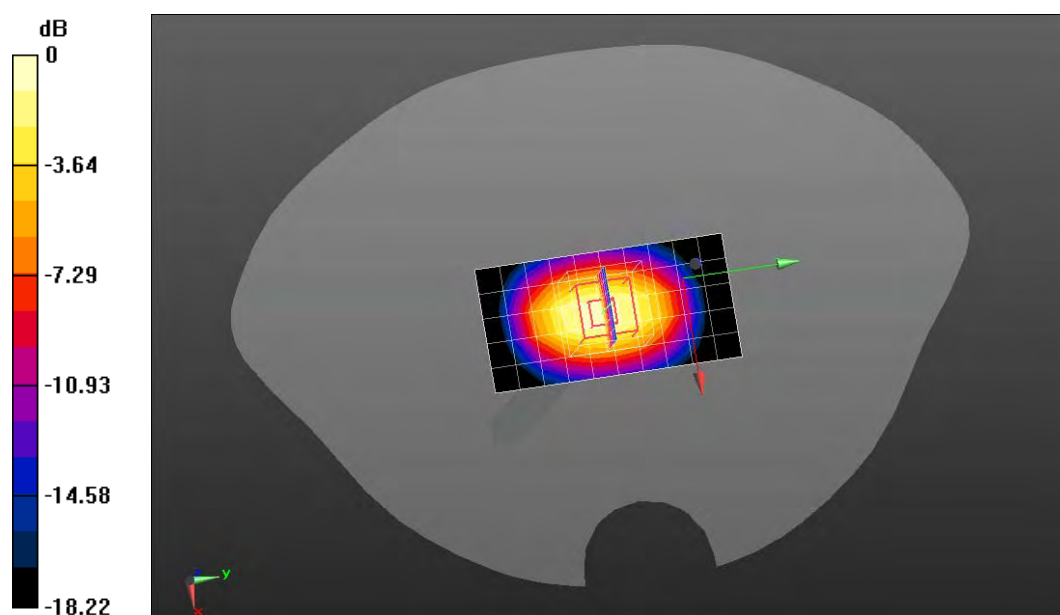
Configuration/System Check 1900MHz Head/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.108 mW/g

Configuration/System Check 1900MHz Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 85.563 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 18.1680

SAR(1 g) = 9.49 mW/g; SAR(10 g) = 4.84 mW/g Maximum value of SAR (measured) = 10.686 mW/g



0 dB = 10.690mW/g = 20.58 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

System Check Body 1900MHz

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle: 1:1;

Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

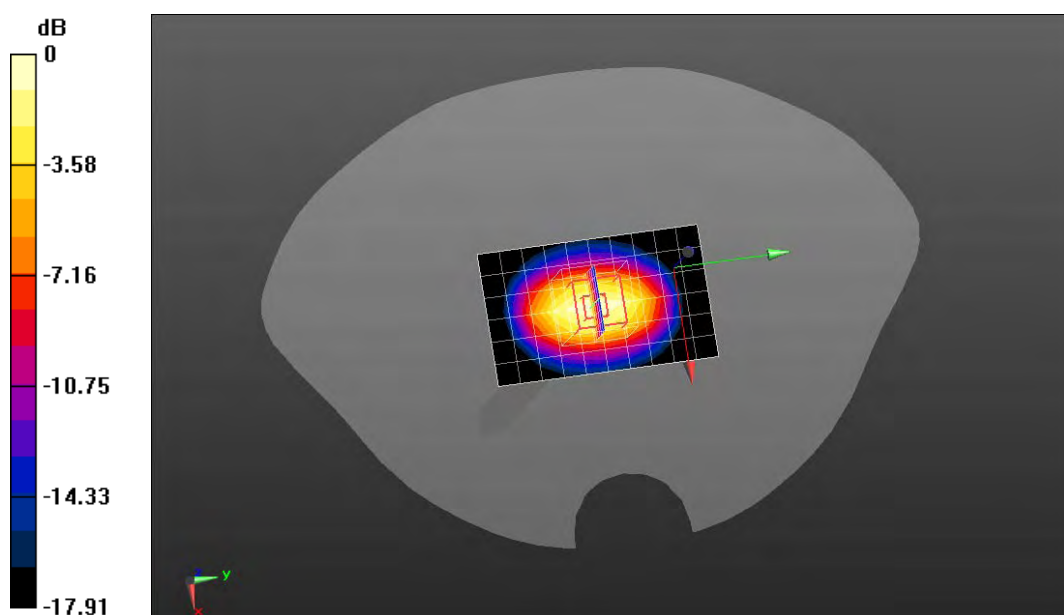
Configuration/System Check 1900MHz Body/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.117 mW/g

Configuration/System Check 1900MHz Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 84.651 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.6110

SAR(1 g) = 9.96 mW/g; SAR(10 g) = 5.11 mW/g Maximum value of SAR (measured) = 11.203 mW/g



0 dB = 11.200mW/g = 20.98 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

System Check Head 2450MHz

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;

Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ mho/m; $\epsilon_r = 39.67$; $\rho = 1000$

kg/m³; Phantom section: Flat Section; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.25, 7.25, 7.25); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

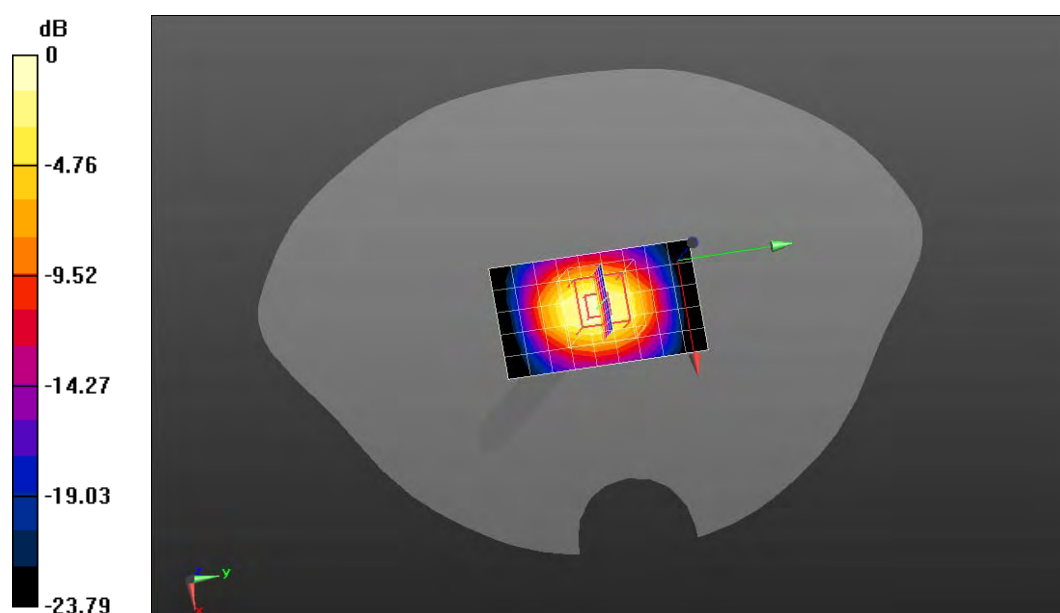
Configuration/System Check 2450MHz Head/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 12.146 mW/g

Configuration/System Check 2450MHz Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 89.373 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 28.1920

SAR(1 g) = 12.8 mW/g; SAR(10 g) = 5.71 mW/g Maximum value of SAR (measured) = 14.504 mW/g



0 dB = 14.500mW/g = 23.23 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

System Check Body 2450MHz

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;

Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 52.06$; $\rho = 1000$

kg/m³; Phantom section: Flat Section; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(6.98, 6.98, 6.98); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

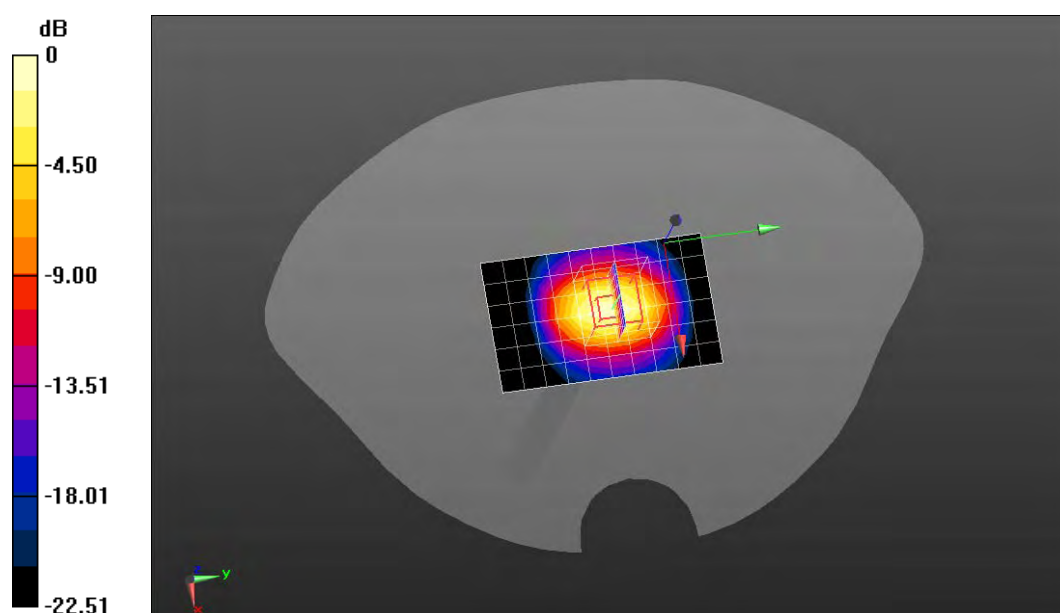
Configuration/System Check 2450MHz Body/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.408 mW/g

Configuration/System Check 2450MHz Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 81.585 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 25.3510

SAR(1 g) = 12.3 mW/g; SAR(10 g) = 5.62 mW/g Maximum value of SAR (measured) = 14.054 mW/g



0 dB = 14.050mW/g = 22.95 dB mW/g

Appendix B. SAR measurement Data

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 Low Touch-Left

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 824.2 MHz; Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

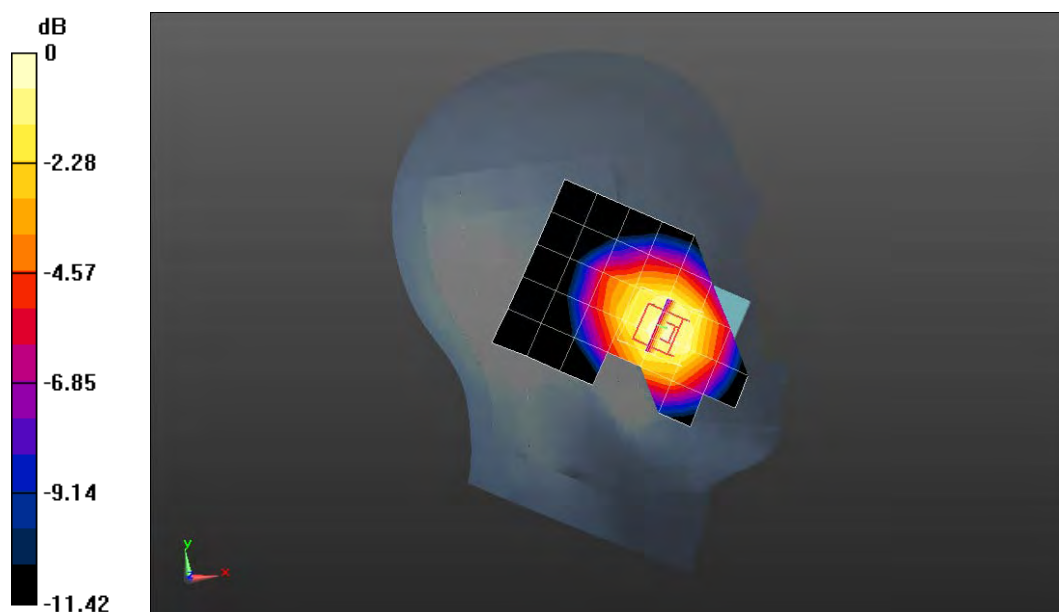
Configuration/GSM850 Low Touch-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.659 mW/g

Configuration/GSM850 Low Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.175 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.8130

SAR(1 g) = 0.663 mW/g; SAR(10 g) = 0.498 mW/g Maximum value of SAR (measured) = 0.697 mW/g



0 dB = 0.700mW/g = -3.10 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Left

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42.77$; $\rho = 1000$ kg/m³; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

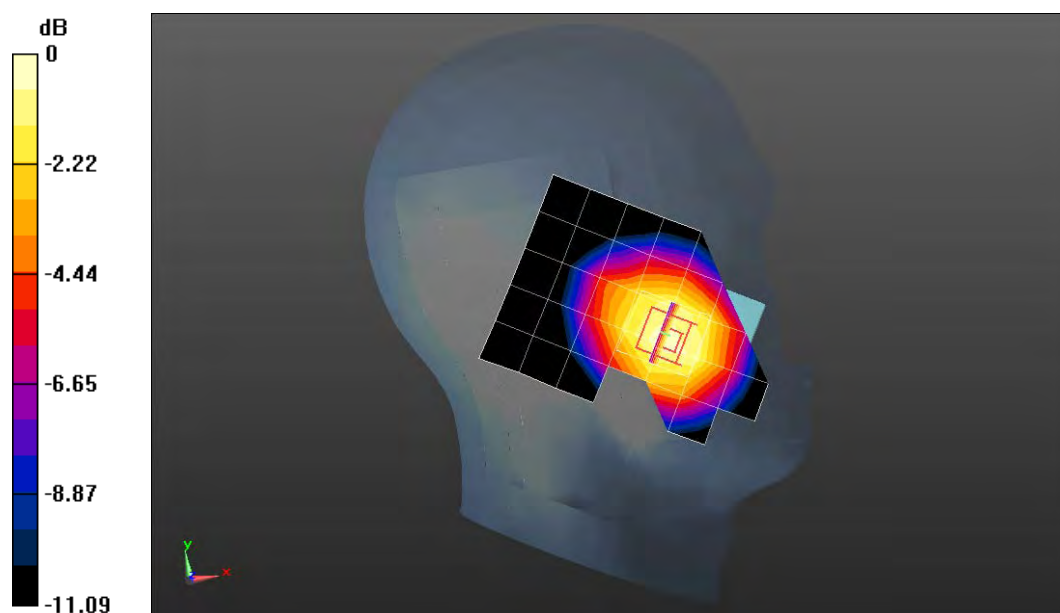
Configuration/GSM850 Mid Touch-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.940 mW/g

Configuration/GSM850 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.939 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.1510

SAR(1 g) = 0.935 mW/g; SAR(10 g) = 0.699 mW/g Maximum value of SAR (measured) = 0.985 mW/g



0 dB = 0.980mW/g = -0.18 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 High Touch-Left

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 848.8 MHz; Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.63$; $\rho = 1000$ kg/m³; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

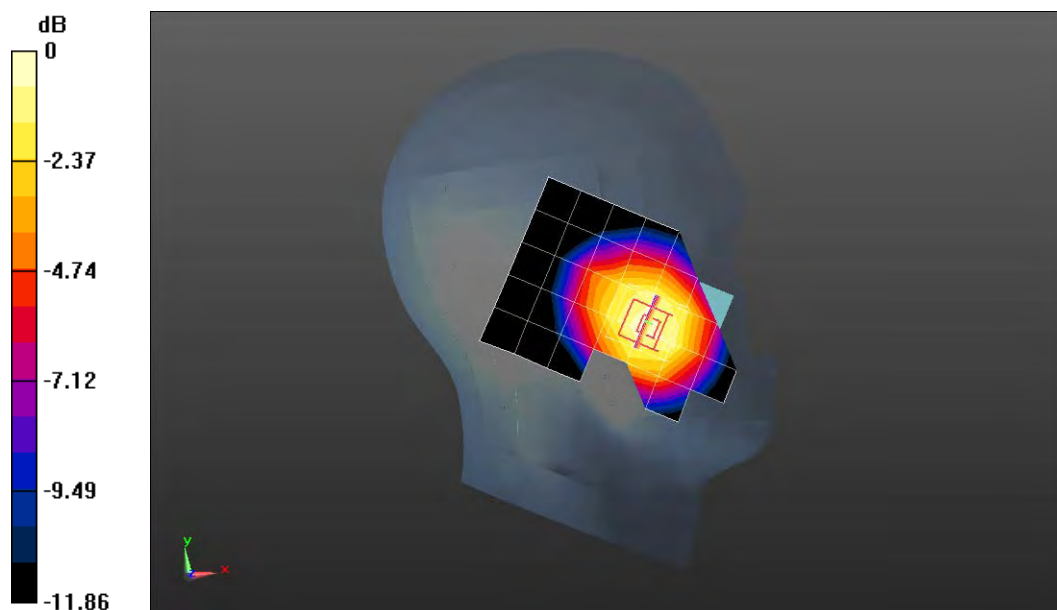
Configuration/GSM850 High Touch-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 1.094 mW/g

Configuration/GSM850 High Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.984 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.3420

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.817 mW/g Maximum value of SAR (measured) = 1.152 mW/g



0 dB = 1.150mW/g = 1.21 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Tilt-Left

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42.77$; $\rho = 1000$ kg/m³; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

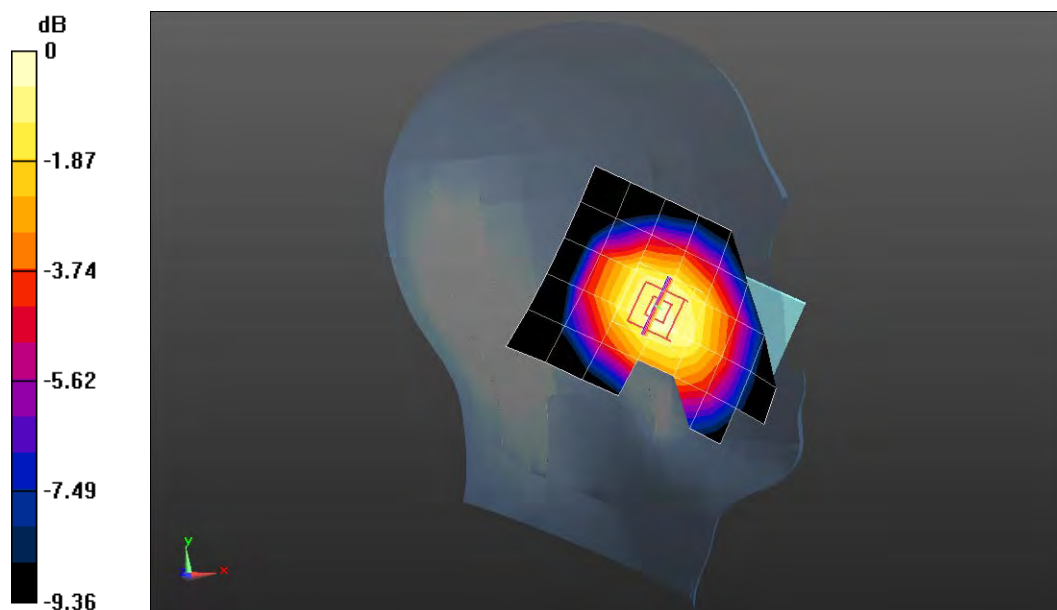
Configuration/GSM850 Mid Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.476 mW/g

Configuration/GSM850 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 14.879 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.5940

SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.357 mW/g Maximum value of SAR (measured) = 0.497 mW/g



0 dB = 0.500mW/g = -6.02 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 Low Touch-Right

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 824.2 MHz; Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$

kg/m³ ; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/GSM850 Low Touch-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

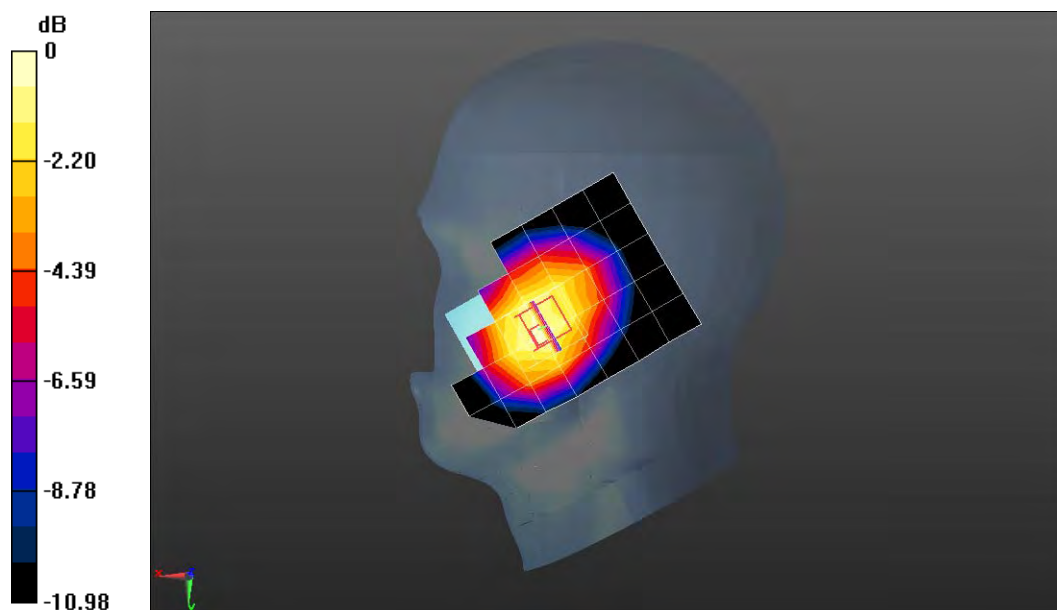
Maximum value of SAR (measured) = 0.661 mW/g

Configuration/GSM850 Low Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 9.571 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.8890

SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.452 mW/g Maximum value of SAR (measured) = 0.666 mW/g



0 dB = 0.670mW/g = -3.48 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Right

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42.77$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

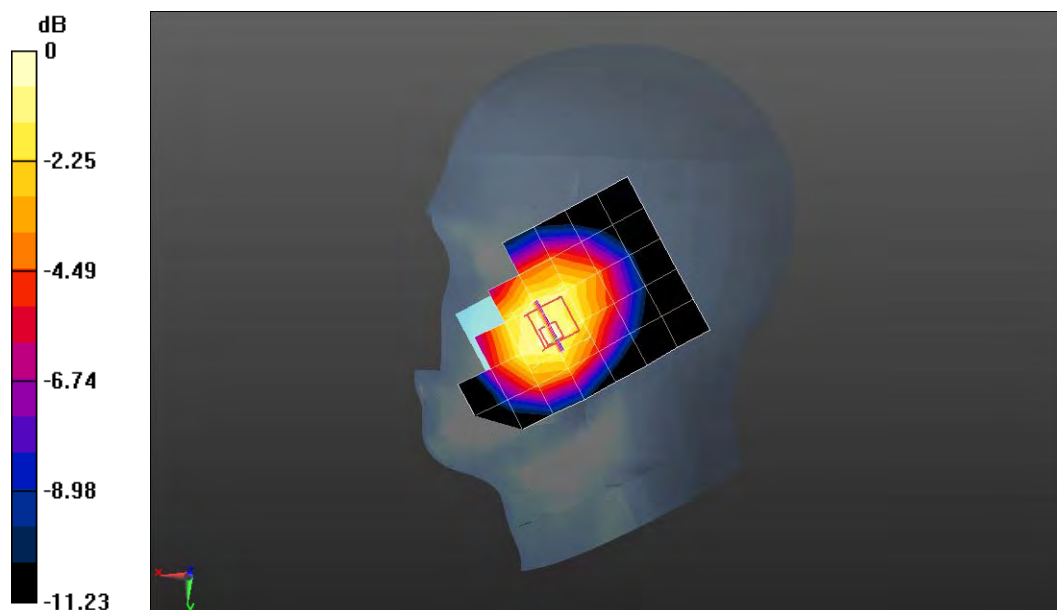
Configuration/GSM850 Mid Touch-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.938 mW/g

Configuration/GSM850 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.969 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.2940

SAR(1 g) = 0.911 mW/g; SAR(10 g) = 0.653 mW/g Maximum value of SAR (measured) = 0.958 mW/g



0 dB = 0.960mW/g = -0.35 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 High Touch-Right

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 848.8 MHz; Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.63$; $\rho = 1000$

kg/m³ ; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

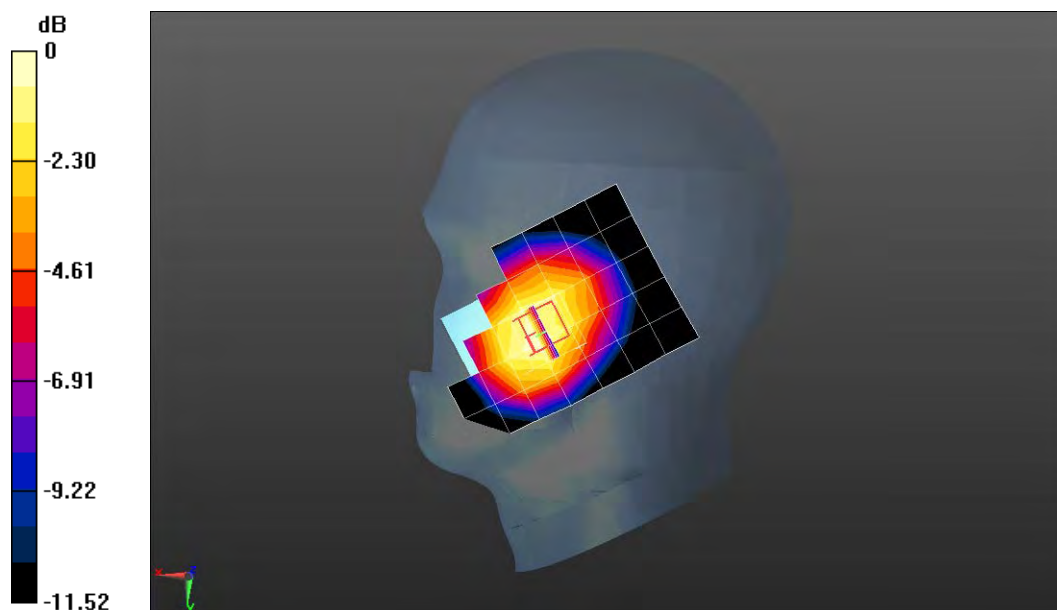
Configuration/GSM850 High Touch-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 1.176 mW/g

Configuration/GSM850 High Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 12.646 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.5880

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.785 mW/g Maximum value of SAR (measured) = 1.171 mW/g



0 dB = 1.170mW/g = 1.36 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Tilt-Right

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42.77$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

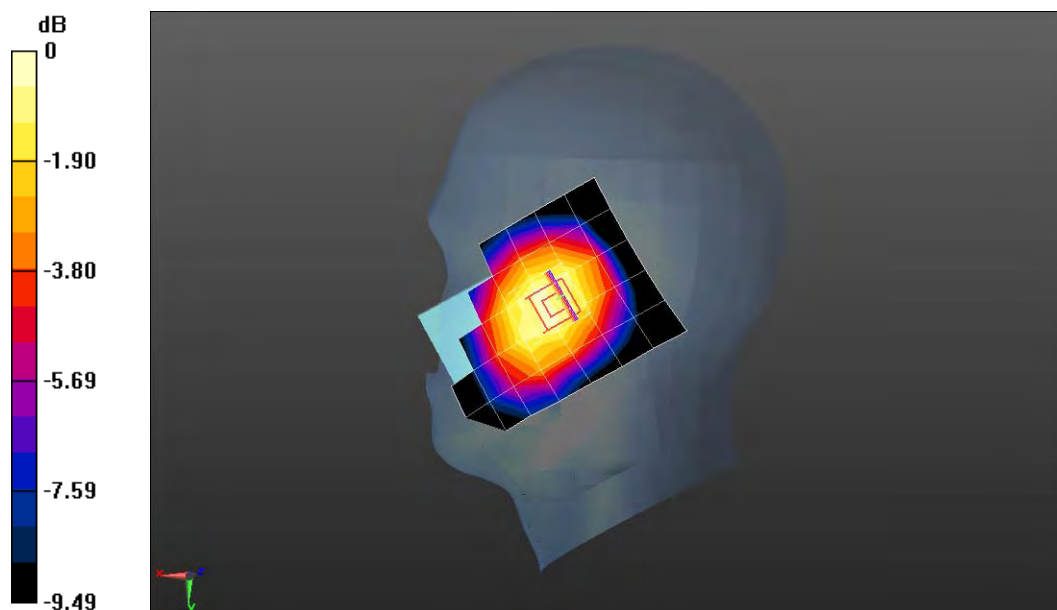
Configuration/GSM850 Mid Tilt-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.480 mW/g

Configuration/GSM850 Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 15.341 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.6340

SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.373 mW/g Maximum value of SAR (measured) = 0.525 mW/g



0 dB = 0.520mW/g = -5.68 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Body-Back

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.53$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

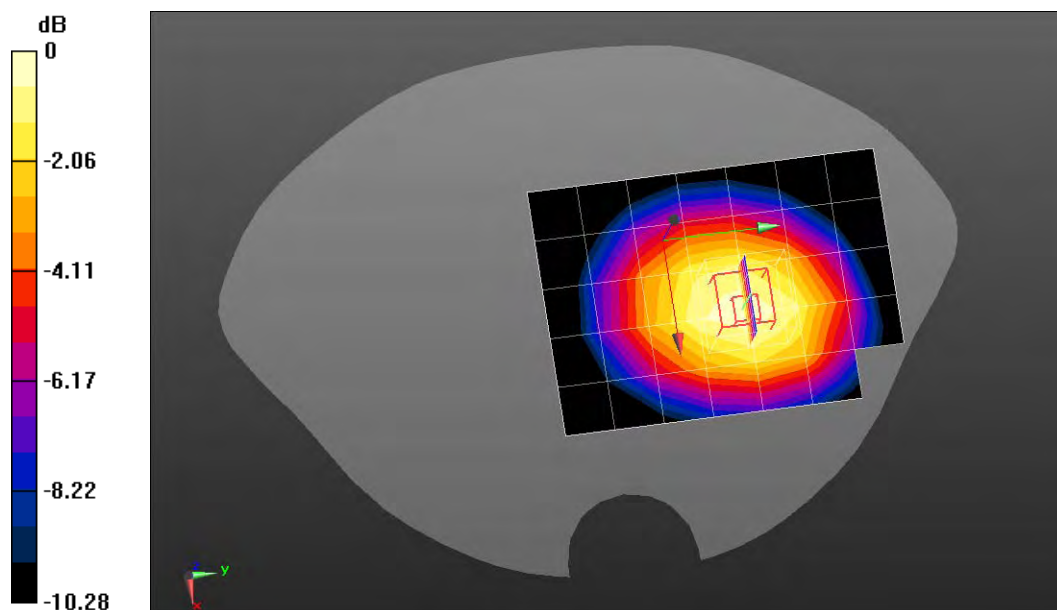
Configuration/GSM850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.834 mW/g

Configuration/GSM850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 13.121 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.0580

SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.565 mW/g Maximum value of SAR (measured) = 0.835 mW/g



0 dB = 0.830mW/g = -1.62 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Body-Back(With headset)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.53$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

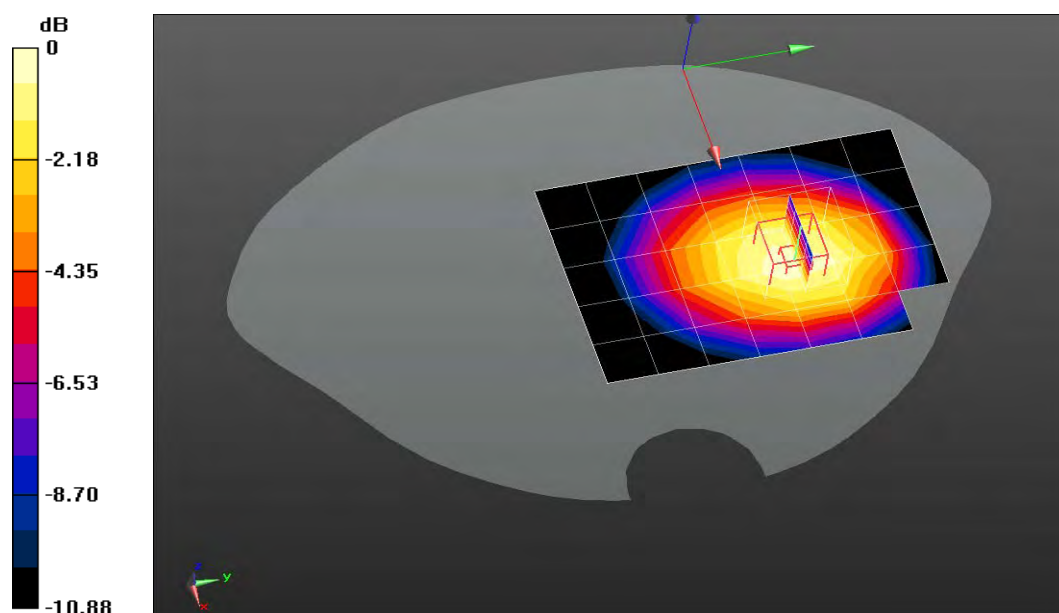
Configuration/GSM850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.611 mW/g

Configuration/GSM850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.392 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.8150

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.424 mW/g Maximum value of SAR (measured) = 0.634 mW/g



0 dB = 0.630mW/g = -4.01 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(2up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: GSM850; Duty Cycle: 1:4.2 ;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.53$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

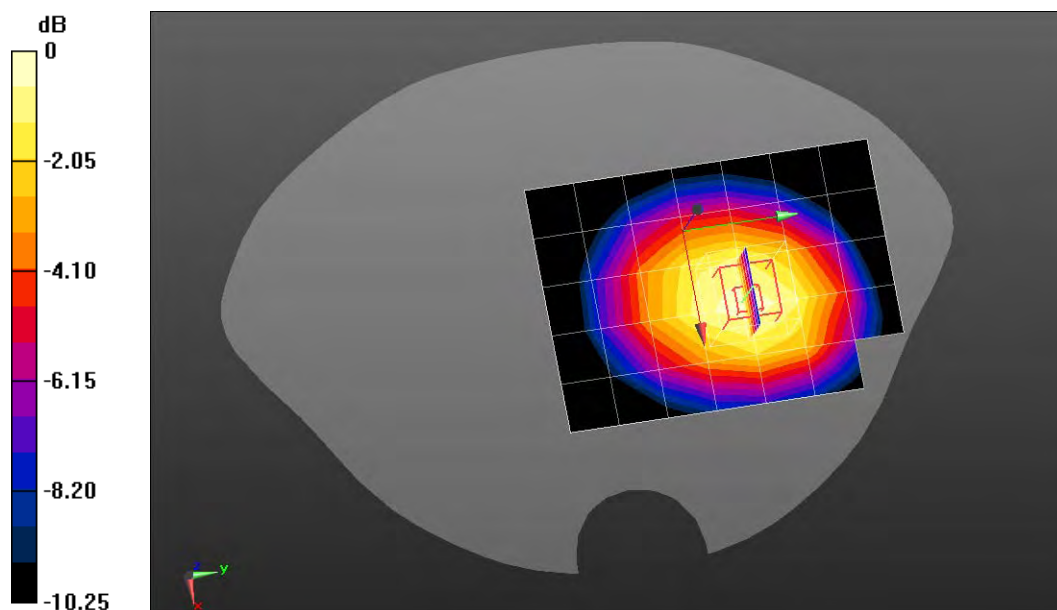
Maximum value of SAR (measured) = 1.283 mW/g

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 15.897 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 1.6450

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.874 mW/g Maximum value of SAR (measured) = 1.295 mW/g



0 dB = 1.300mW/g = 2.28 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS850 Low Body-Back(3up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;

Frequency: 824.2 MHz; Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.65$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/GPRS850 Low Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

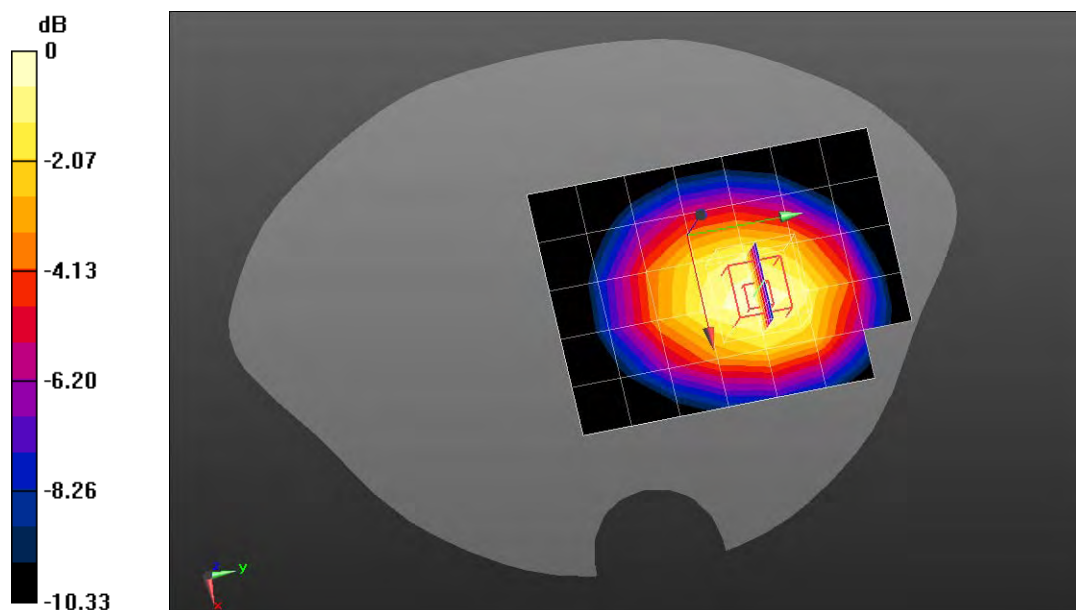
Maximum value of SAR (measured) = 1.018 mW/g

Configuration/GPRS850 Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 13.598 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.2880

SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.683 mW/g Maximum value of SAR (measured) = 1.014 mW/g



0 dB = 1.010mW/g = 0.09 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(3up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.53$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

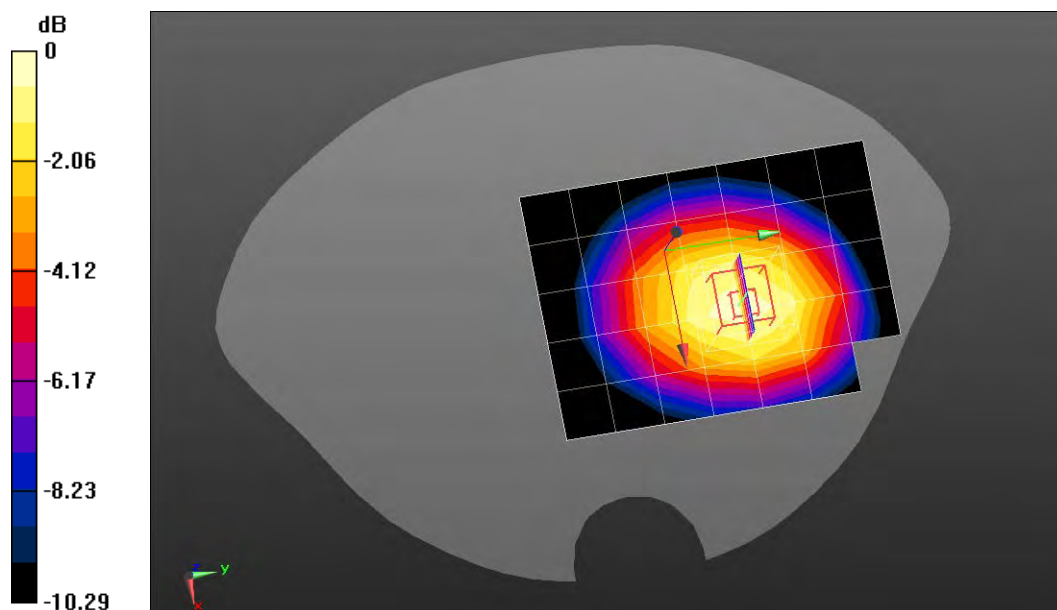
Maximum value of SAR (measured) = 1.365 mW/g

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 16.392 V/m; Power Drift = -0.008 dB

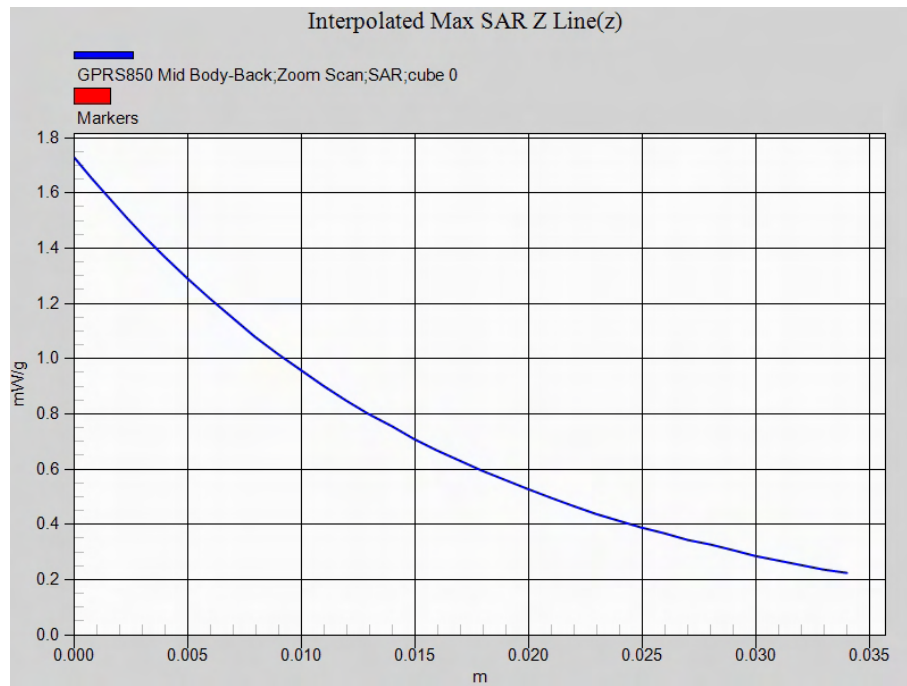
Peak SAR (extrapolated) = 1.7300

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.930 mW/g Maximum value of SAR (measured) = 1.370 mW/g



0 dB = 1.370mW/g = 2.73 dB mW/g

Z-Axis Plot



Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS850 High Body-Back(3up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;

Frequency: 848.8 MHz; Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 54.41$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/GPRS850 High Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

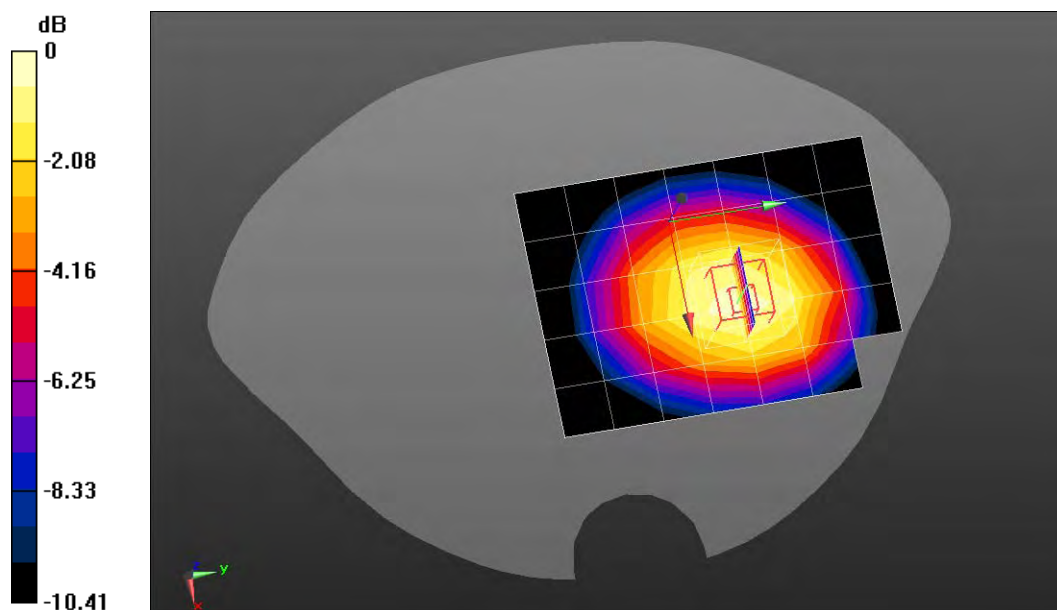
Maximum value of SAR (measured) = 1.255 mW/g

Configuration/GPRS850 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 15.790 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.6050

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.853 mW/g Maximum value of SAR (measured) = 1.268 mW/g



0 dB = 1.270mW/g = 2.08 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Front(3up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.53$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/GPRS850 Mid Body-Front/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

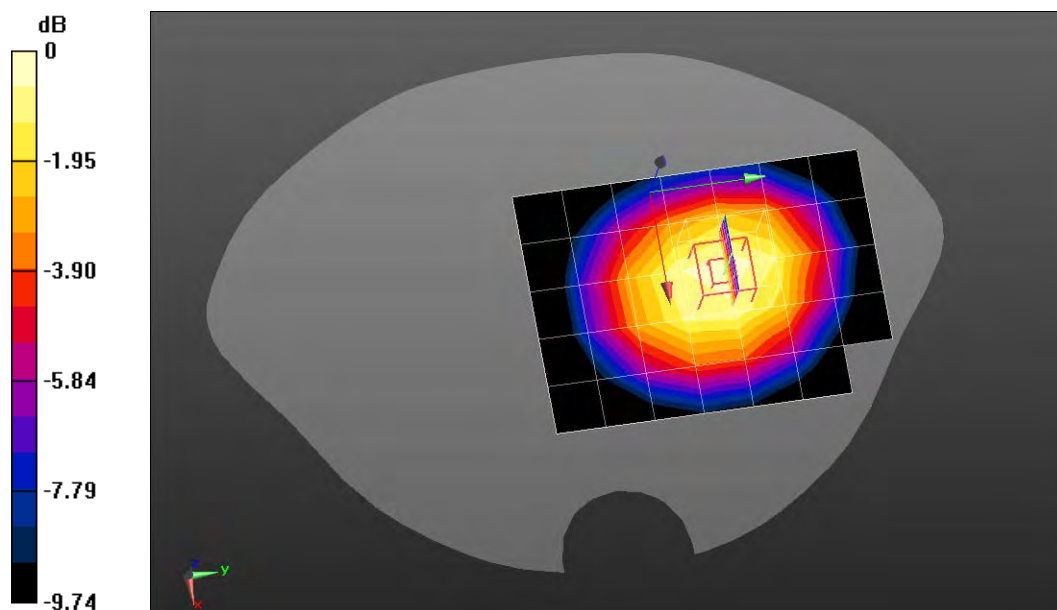
Maximum value of SAR (measured) = 1.090 mW/g

Configuration/GPRS850 Mid Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 15.607 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.3760

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.760 mW/g Maximum value of SAR (measured) = 1.099 mW/g



0 dB = 1.100mW/g = 0.83 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(3up)(with headset)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.53$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

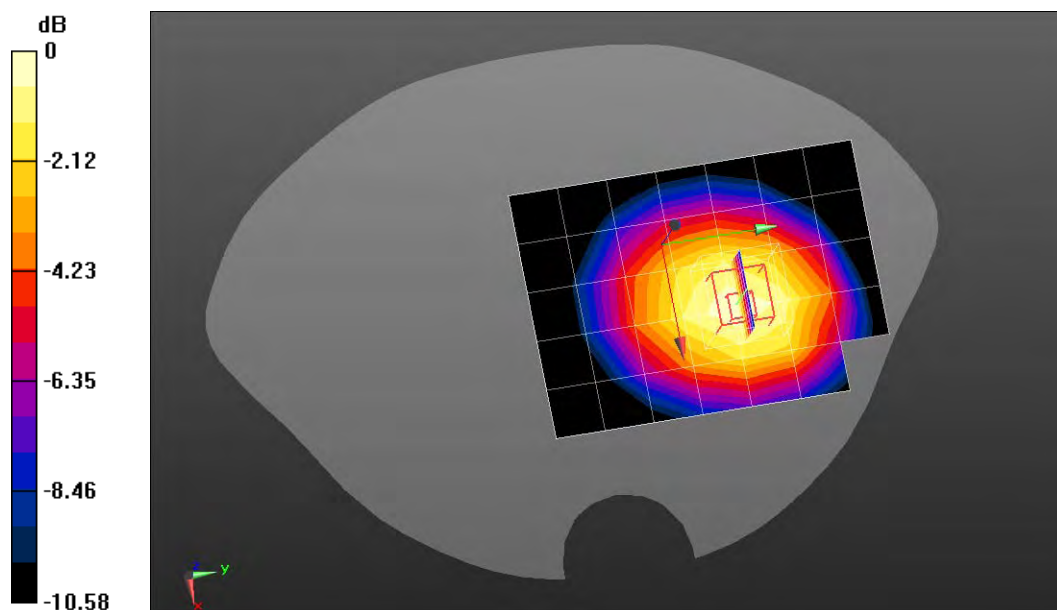
Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 1.011 mW/g

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.730 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.2980

SAR(1 g) = 0.952 mW/g; SAR(10 g) = 0.675 mW/g Maximum value of SAR (measured) = 1.012 mW/g



0 dB = 1.010mW/g = 0.09 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(4up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.53$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

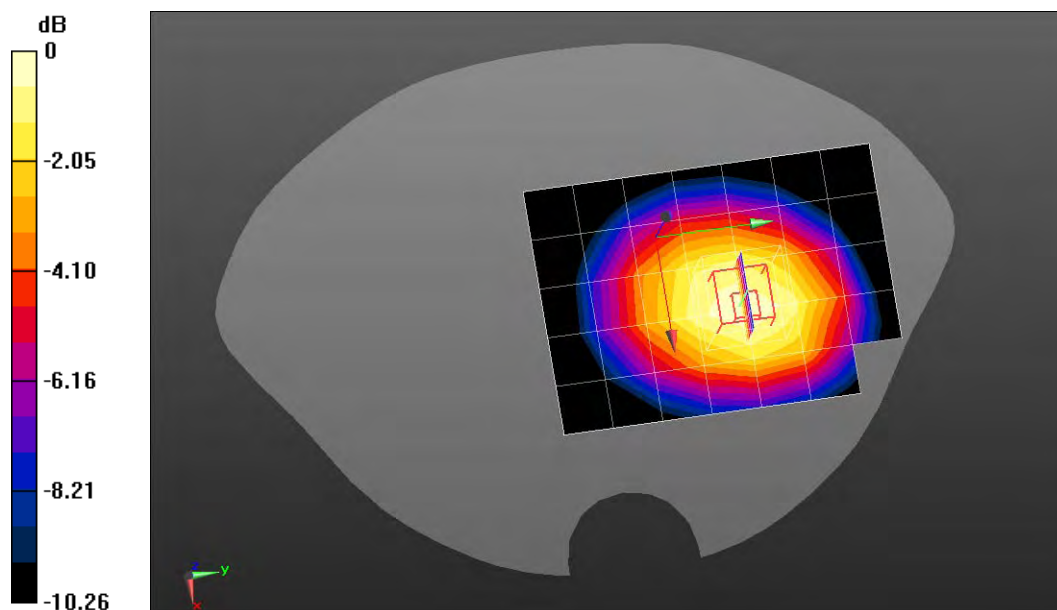
Maximum value of SAR (measured) = 1.205 mW/g

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 15.530 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.4780

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.799 mW/g Maximum value of SAR (measured) = 1.183 mW/g



0 dB = 1.180mW/g = 1.44 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Touch-Left

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;
Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.15$; $\rho = 1000$ kg/m³ ; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

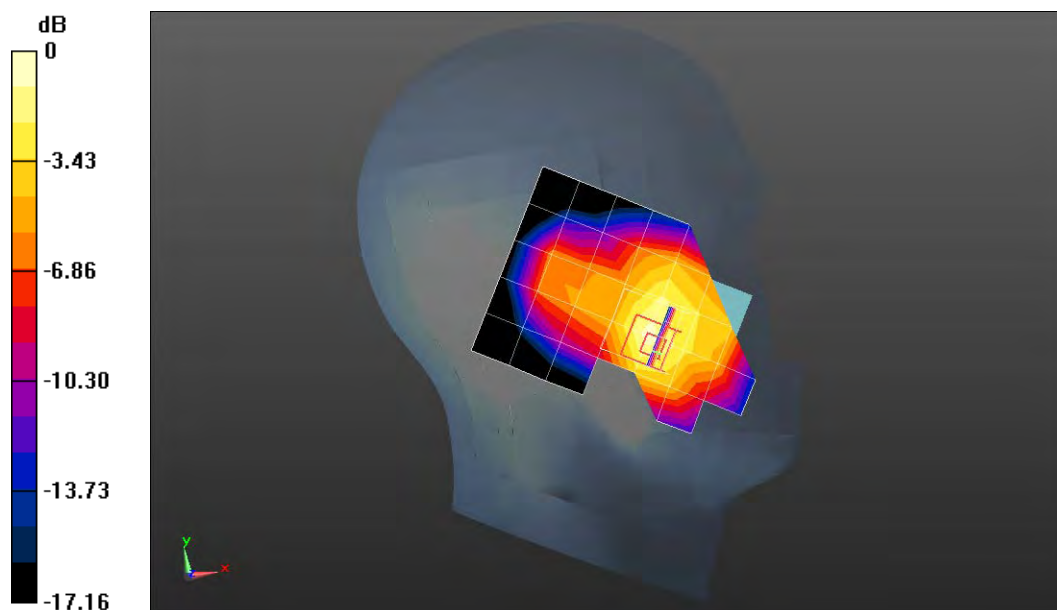
Configuration/PCS1900 Mid Touch-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.428 mW/g

Configuration/PCS1900 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.797 V/m; Power Drift = -0.04 dB

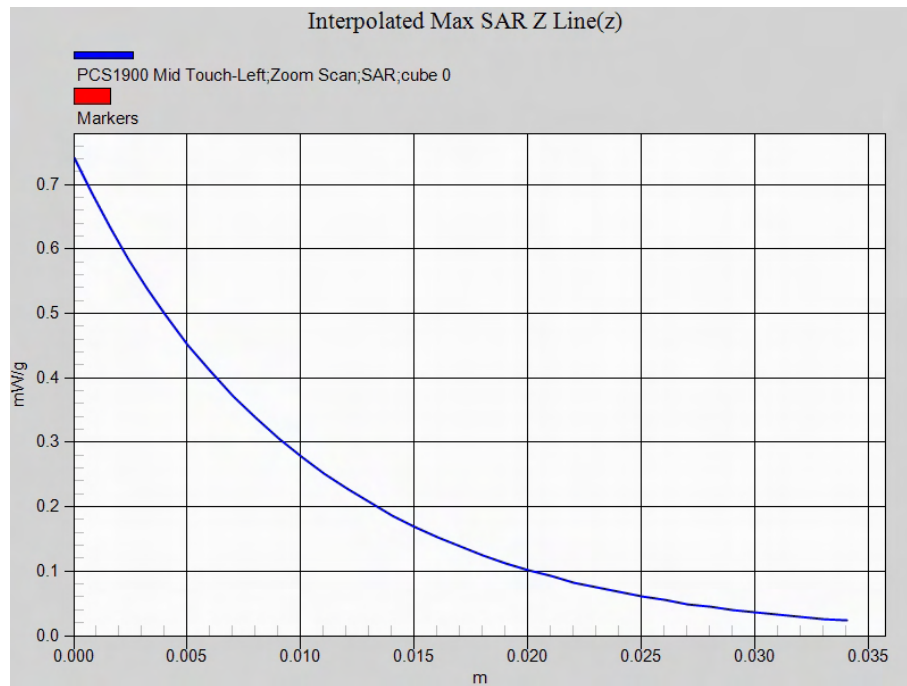
Peak SAR (extrapolated) = 0.7420

SAR(1 g) = 0.446 mW/g; SAR(10 g) = 0.247 mW/g Maximum value of SAR (measured) = 0.470 mW/g



0 dB = 0.470mW/g = -6.56 dB mW/g

Z-Axis Plot



Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Tilt-Left

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.15$; $\rho = 1000$

kg/m³ ; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/PCS1900 Mid Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

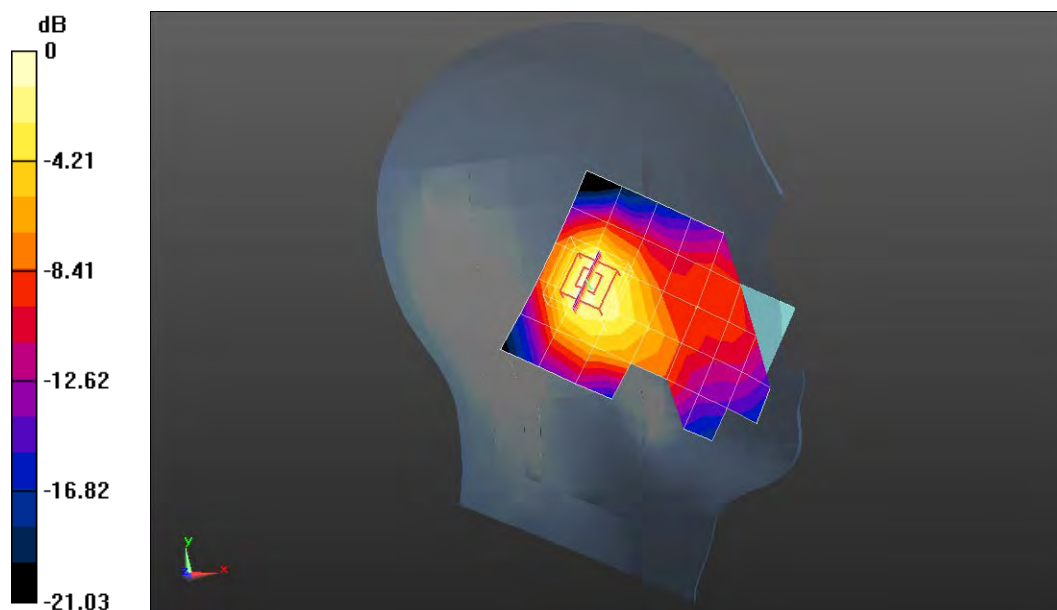
Maximum value of SAR (measured) = 0.197 mW/g

Configuration/PCS1900 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

dz=5mm, Reference Value = 12.777 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.3500

SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.125 mW/g Maximum value of SAR (measured) = 0.234 mW/g



0 dB = 0.230mW/g = -12.77 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Touch-Right

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.15$; $\rho = 1000$

kg/m³ ; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/PCS1900 Mid Touch-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

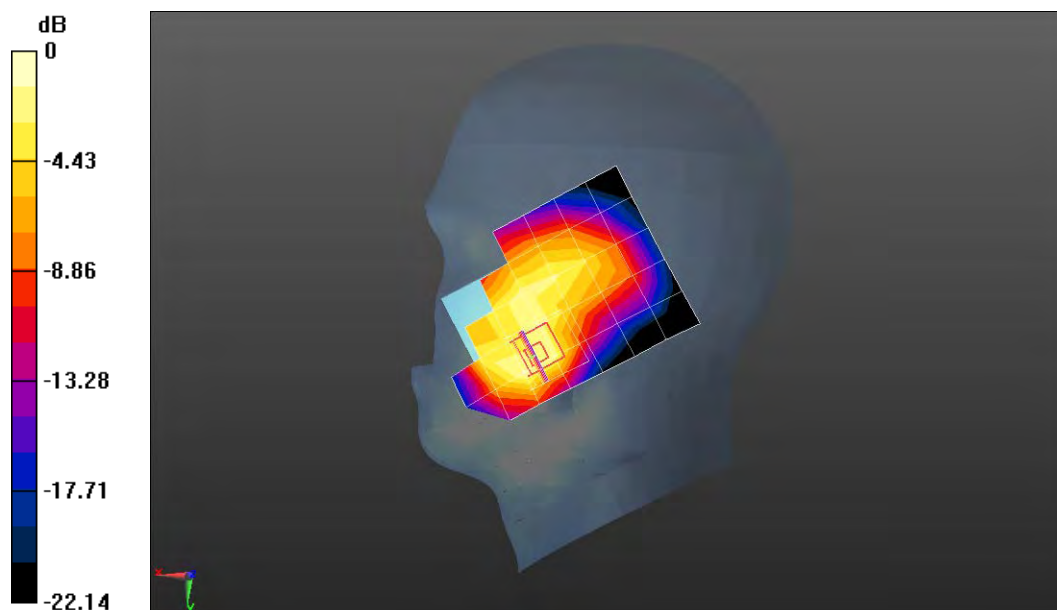
Maximum value of SAR (measured) = 0.357 mW/g

Configuration/PCS1900 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 7.236 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.8090

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.238 mW/g Maximum value of SAR (measured) = 0.475 mW/g



0 dB = 0.480mW/g = -6.38 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Tilt-Right

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;
Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.15$; $\rho = 1000$ kg/m³ ; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

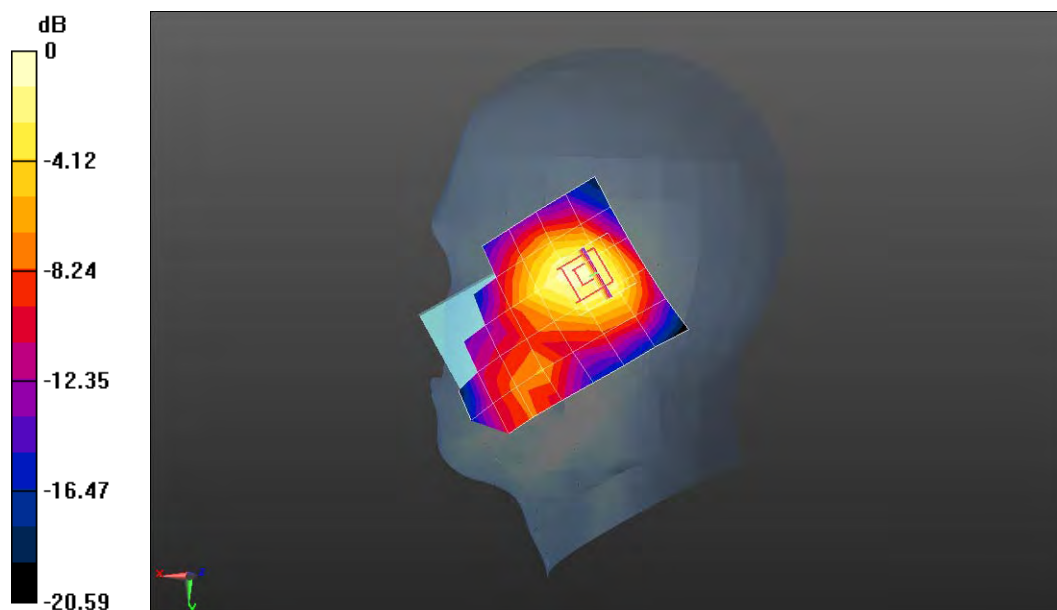
Configuration/PCS1900 Mid Tilt-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.208 mW/g

Configuration/PCS1900 Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.539 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.3300

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.124 mW/g Maximum value of SAR (measured) = 0.221 mW/g



0 dB = 0.220mW/g = -13.15 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Body-Back

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;
Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.59$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

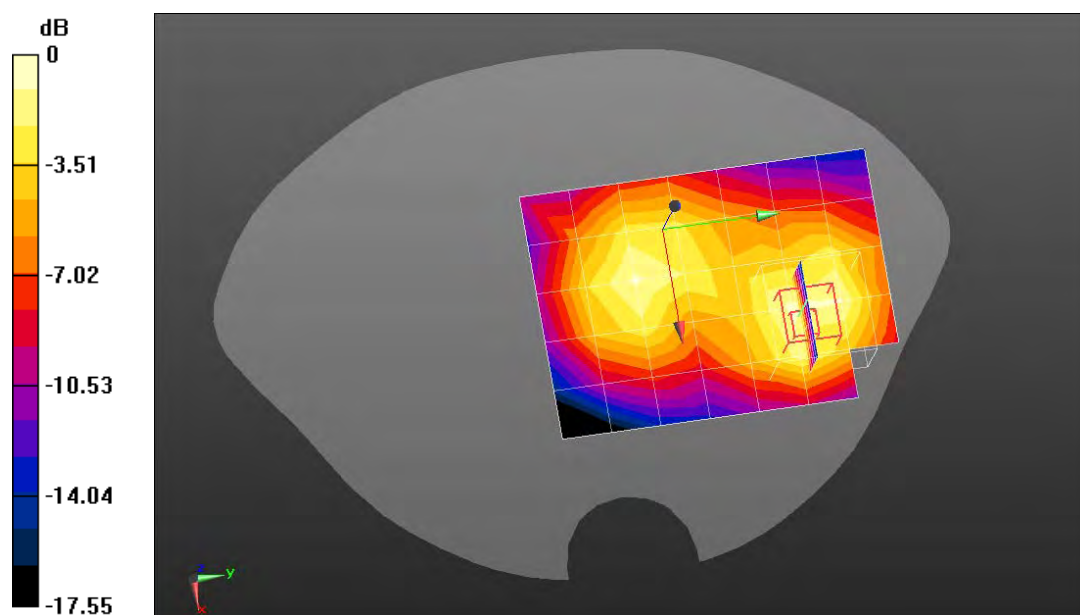
Configuration/PCS1900 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.167 mW/g

Configuration/PCS1900 Mid Body-Back/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.459 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.3170

SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.107 mW/g Maximum value of SAR (measured) = 0.195 mW/g



0 dB = 0.200mW/g = -13.98 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Body-Back(With headset)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.59$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

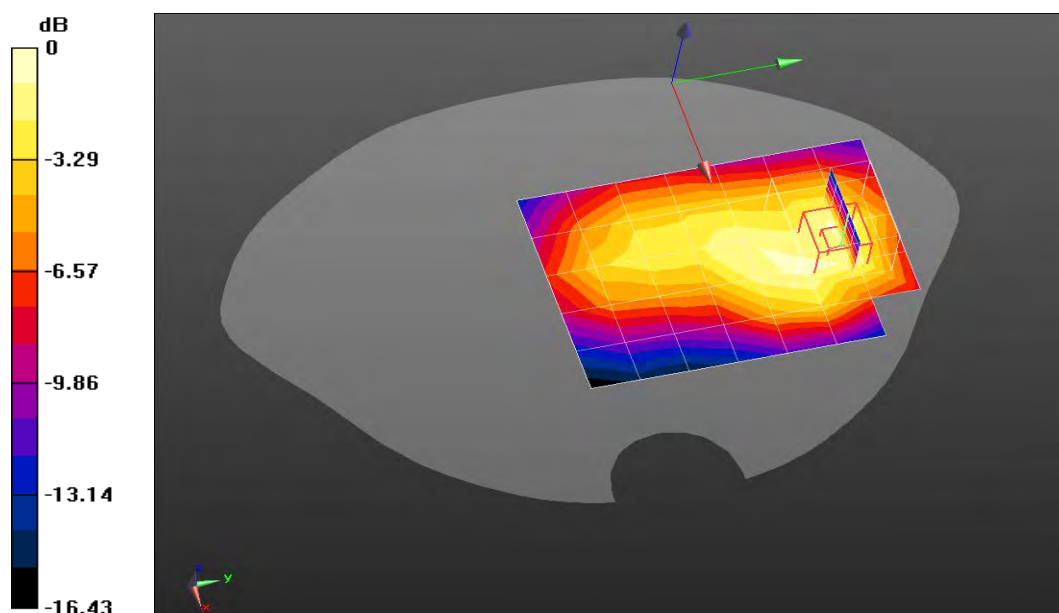
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.179 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.011 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.2930

SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.110 mW/g Maximum value of SAR (measured) = 0.200 mW/g



0 dB = 0.200mW/g = -13.98 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(2up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.59$; $\rho = 1000$

kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Configuration/GPRS1900 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

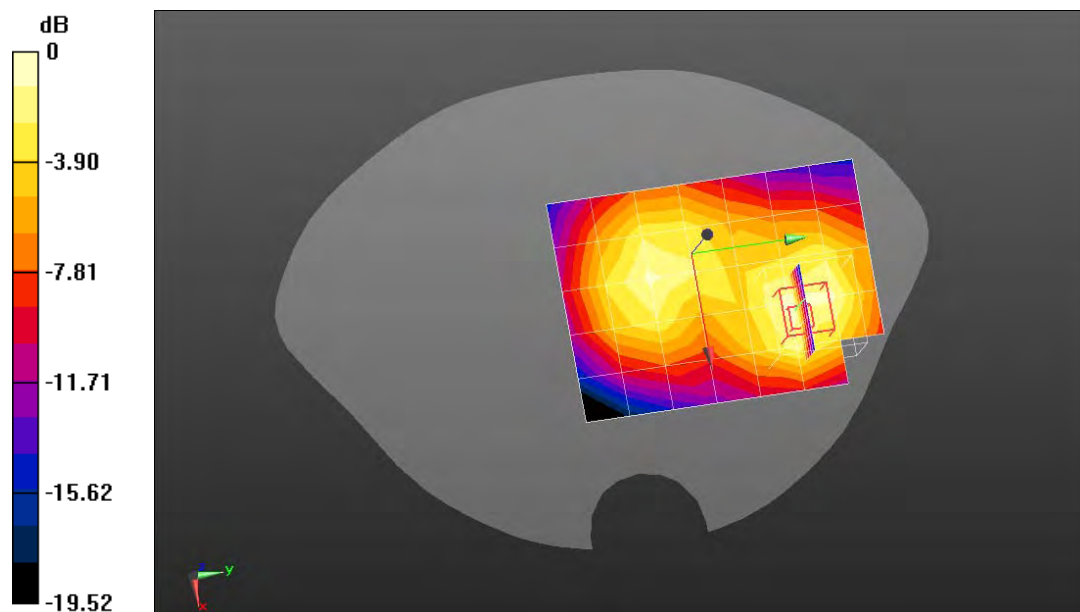
Maximum value of SAR (measured) = 0.242 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 8.779 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.4540

SAR(1 g) = 0.269 mW/g; SAR(10 g) = 0.155 mW/g Maximum value of SAR (measured) = 0.280 mW/g



0 dB = 0.280mW/g = -11.06 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(3up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.8 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.59$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

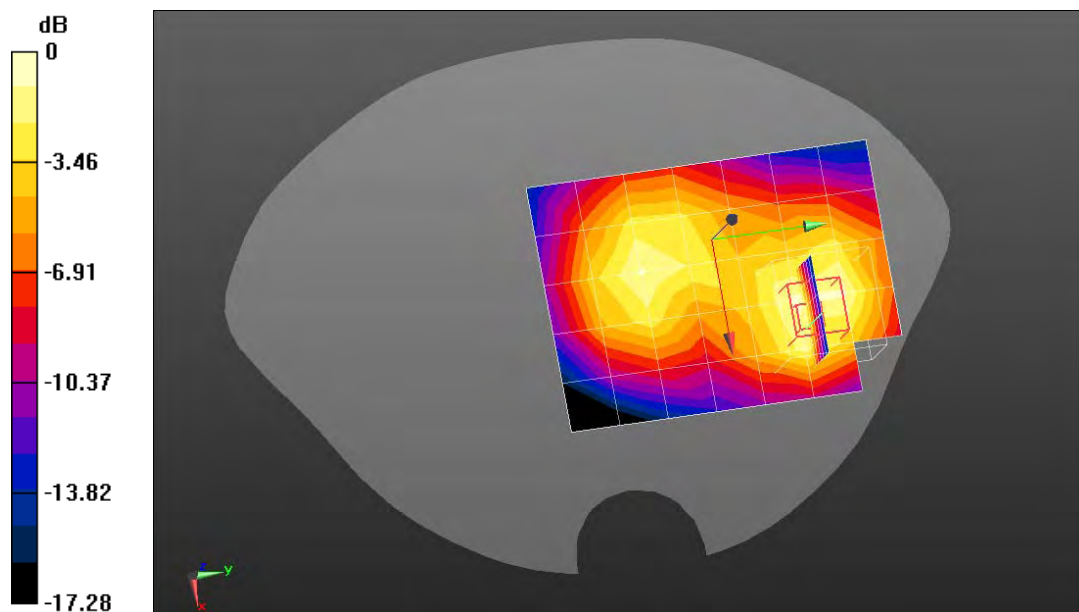
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.252 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.975 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.4780

SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.163 mW/g Maximum value of SAR (measured) = 0.296 mW/g



0 dB = 0.300mW/g = -10.46 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Front(3up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.8 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.59$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

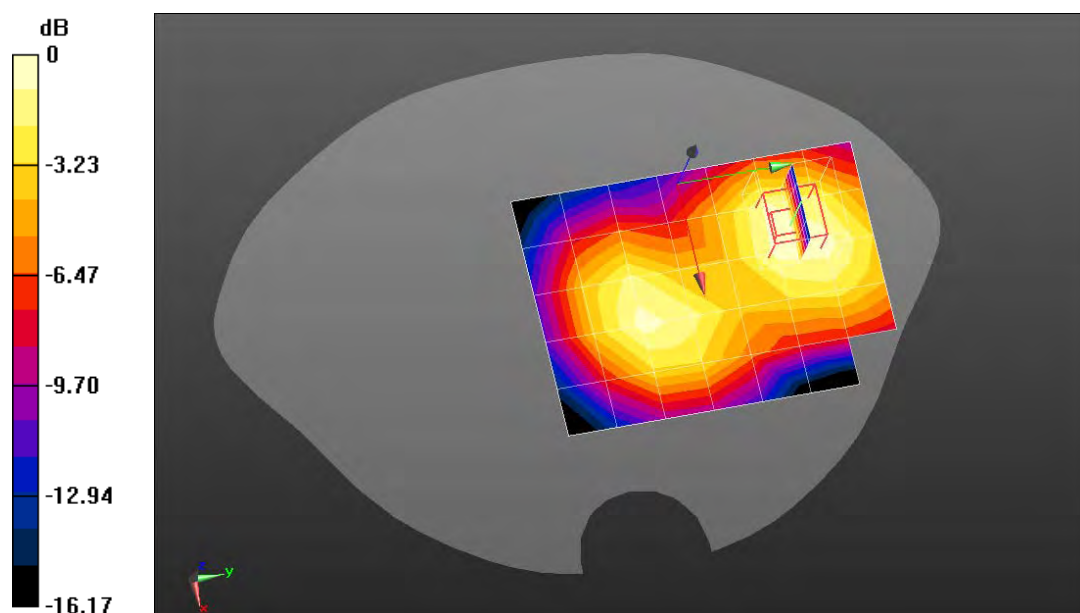
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.197 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.084 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.3430

SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.125 mW/g Maximum value of SAR (measured) = 0.225 mW/g



0 dB = 0.220mW/g = -13.15 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(3up)(with headset)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.8 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.59$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section

Ambient temperature ($^{\circ}\text{C}$): 21.5, Liquid temperature ($^{\circ}\text{C}$): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

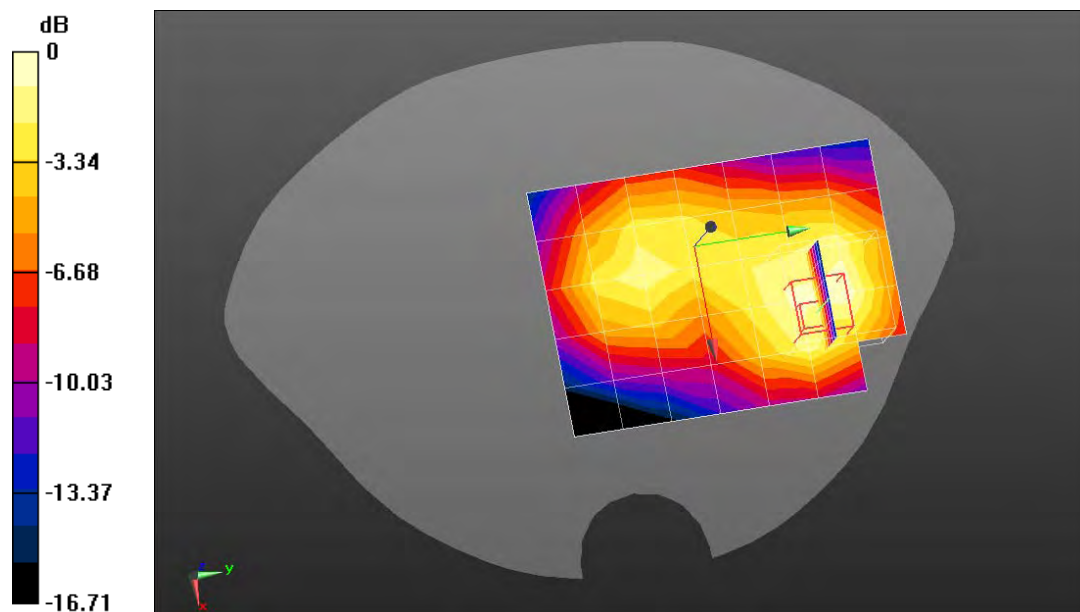
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x8x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.231 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$, Reference Value = 8.641 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.3950

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.138 mW/g Maximum value of SAR (measured) = 0.253 mW/g



0 dB = 0.250mW/g = -12.04 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(4up)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.59$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

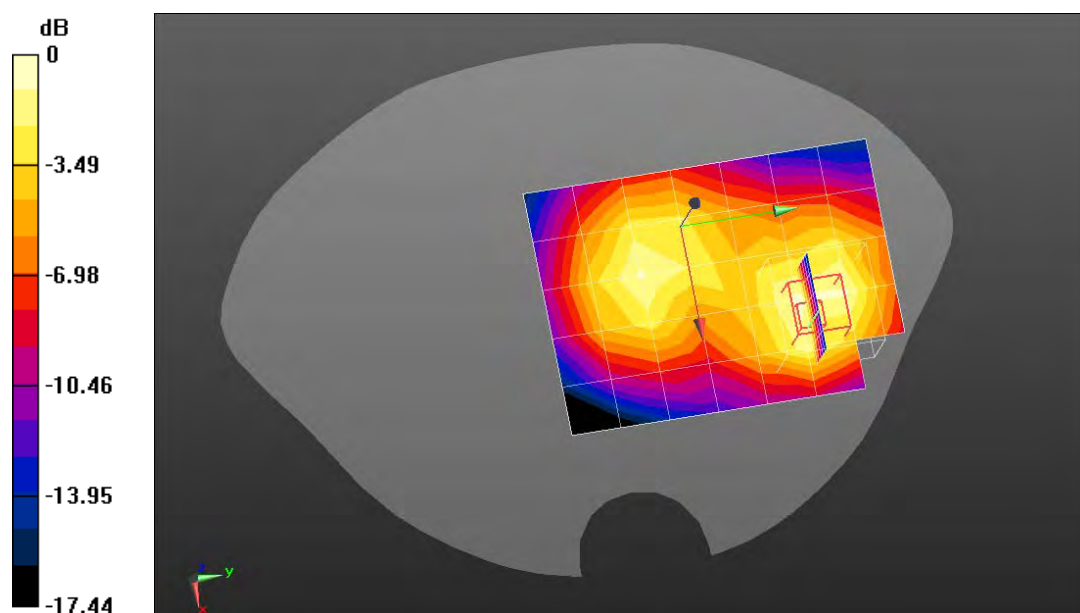
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.228 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.586 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.4270

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.145 mW/g Maximum value of SAR (measured) = 0.265 mW/g



0 dB = 0.270mW/g = -11.37 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

Bluetooth High Touch-Left

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1; Frequency: 2480 MHz; Medium parameters used: $f = 2480$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.25, 7.25, 7.25); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

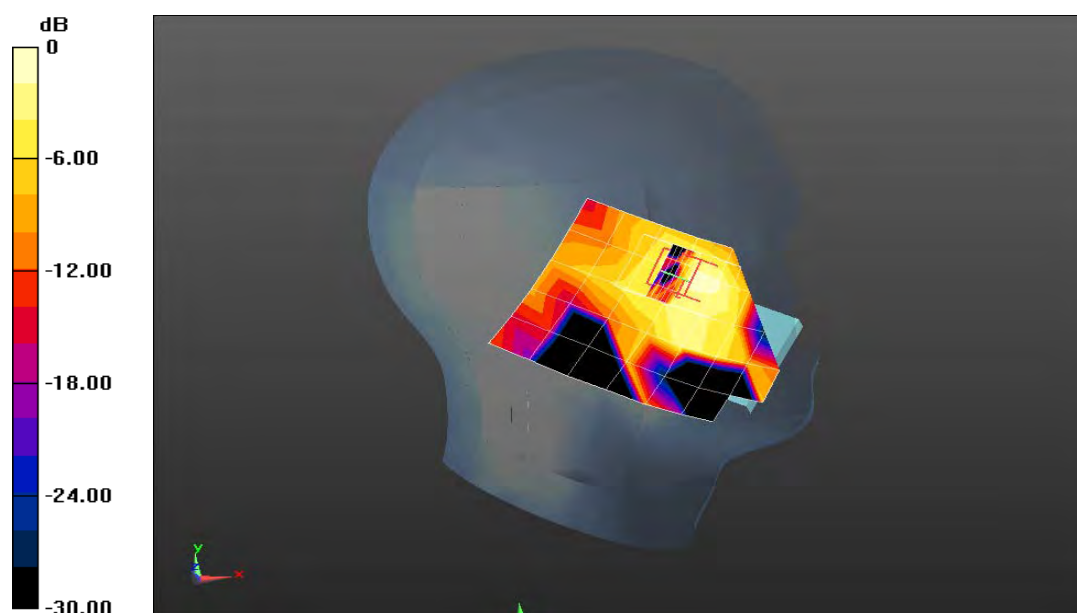
Configuration/Bluetooth High Touch-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00442 mW/g

Configuration/Bluetooth High Touch-Right/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 0.905 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.0220

SAR(1 g) = 0.005 mW/g; SAR(10 g) = 0.002 mW/g Maximum value of SAR (measured) = 0.00547 mW/g



0 dB = 0.0055mW/g = -45.19 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

Bluetooth High Touch-Right

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1; Frequency: 2480 MHz; Medium parameters used: $f = 2480$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.25, 7.25, 7.25); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

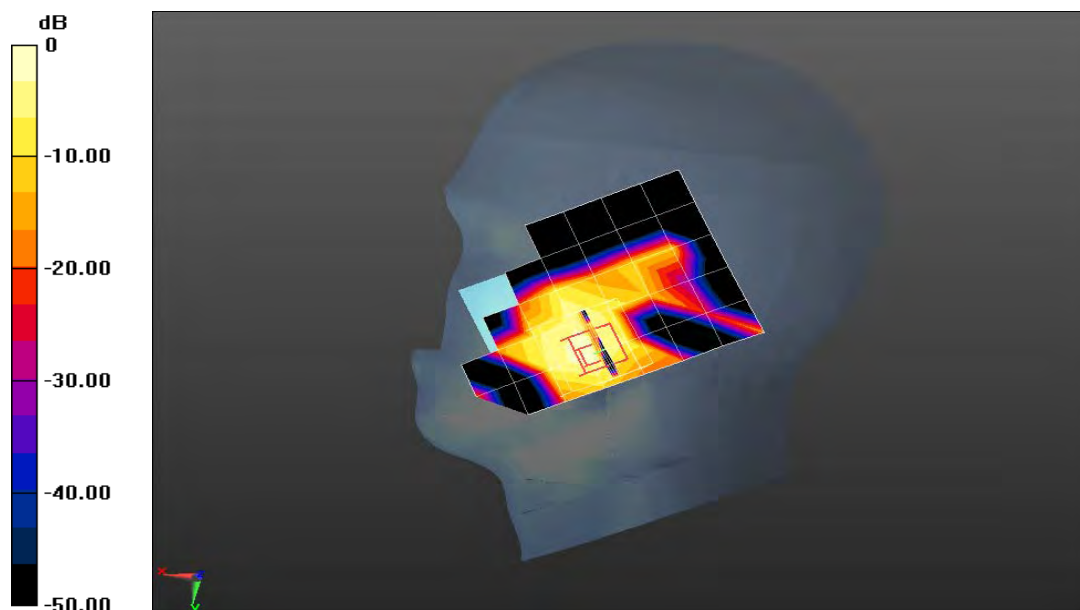
Configuration/Bluetooth High Touch-Right/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00946 mW/g

Configuration/Bluetooth High Touch-Right/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 0.552 V/m; Power Drift =0.14 dB

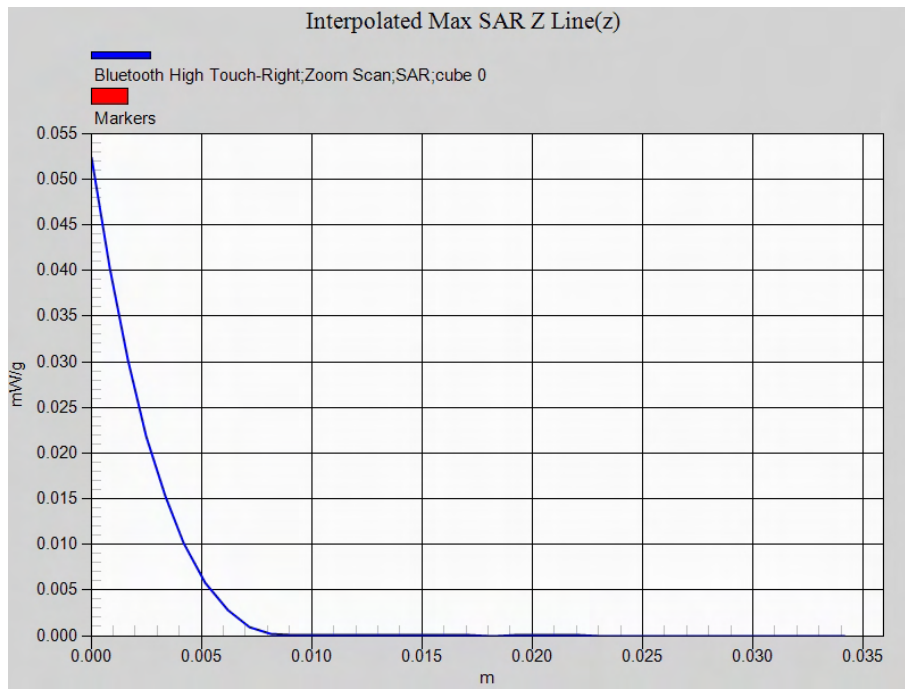
Peak SAR (extrapolated) = 0.0520

SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.004 mW/g Maximum value of SAR (measured) = 0.010 mW/g



0 dB = 0.010mW/g = -40.00 dB mW/g

Z-Axis Plot



Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

Bluetooth High Body-Back

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1; Frequency: 2480 MHz; Medium parameters used: $f = 2480$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 51.88$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(6.98, 6.98, 6.98); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

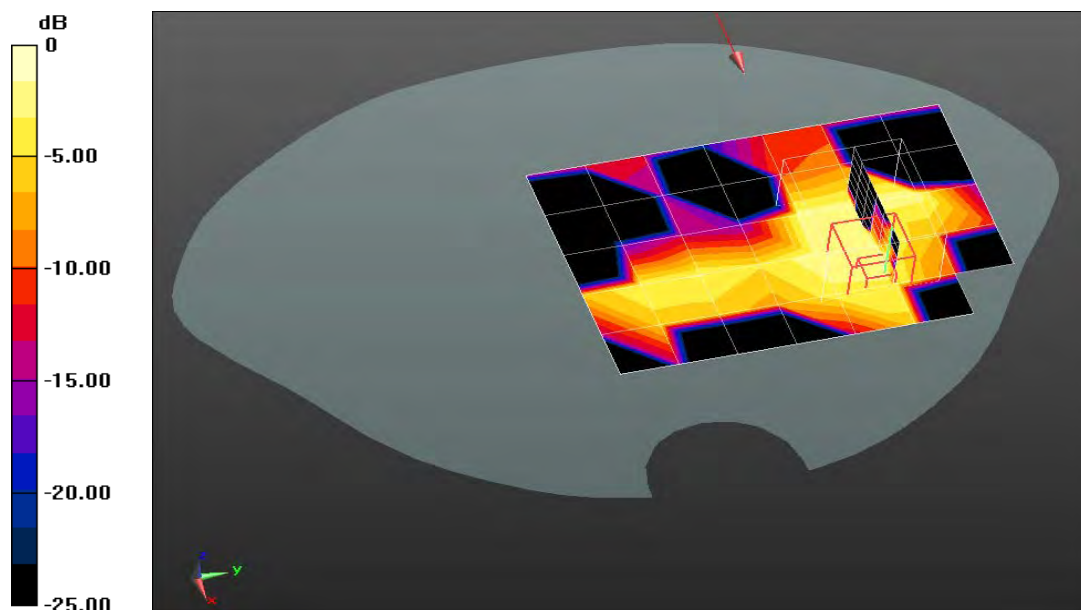
Configuration/Bluetooth High Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00475 mW/g

Configuration/Bluetooth High Body-Back/Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 1.094 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.0260

SAR(1 g) = 0.005 mW/g; SAR(10 g) = 0.001 mW/g Maximum value of SAR (measured) = 0.00767 mW/g



0 dB = 0.0077mW/g = -42.27 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

Bluetooth High Body-Front

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1; Frequency: 2480 MHz; Medium parameters used: $f = 2480$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 51.88$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(6.98, 6.98, 6.98); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

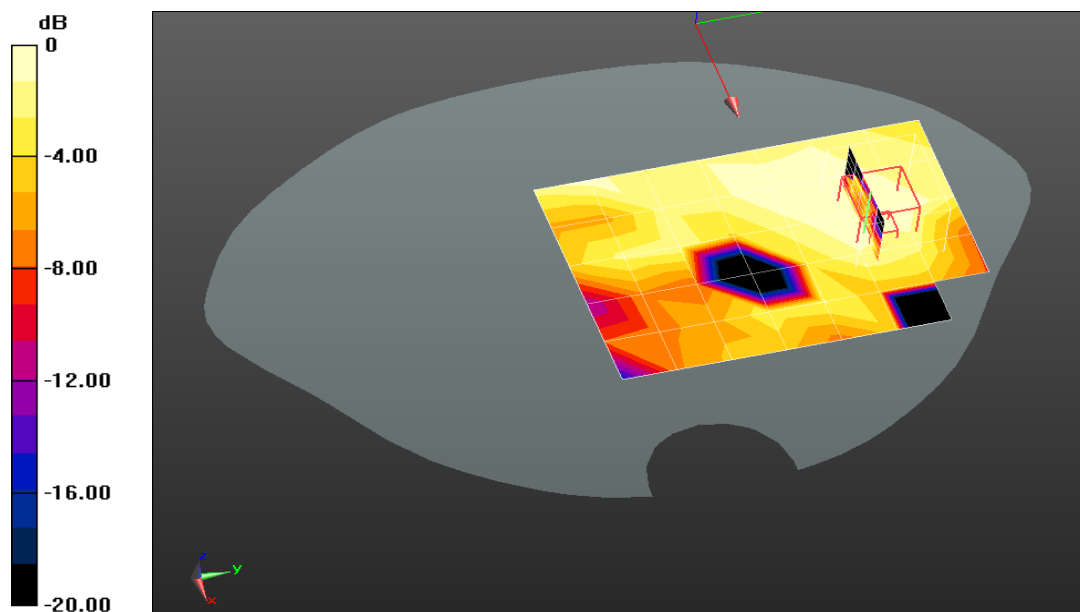
Configuration/Bluetooth High Body-Front/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00366 mW/g

Configuration/Bluetooth High Body-Front/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 0.361 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.008380

SAR(1 g) = 0.002 mW/g; SAR(10 g) = 0.0007 mW/g Maximum value of SAR (measured) = 0.00343 mW/g



0 dB = 0.0034mW/g = -49.37 dB mW/g

Date/Time: 31-03-2012

Test Laboratory: QuieTek Lab

Bluetooth High Body-Back(With headset)

DUT: GSM Mobile Phone ; Type: G7105

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1; Frequency: 2480 MHz; Medium parameters used: $f = 2480$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 51.88$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(6.98, 6.98, 6.98); Calibrated: 12/03/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

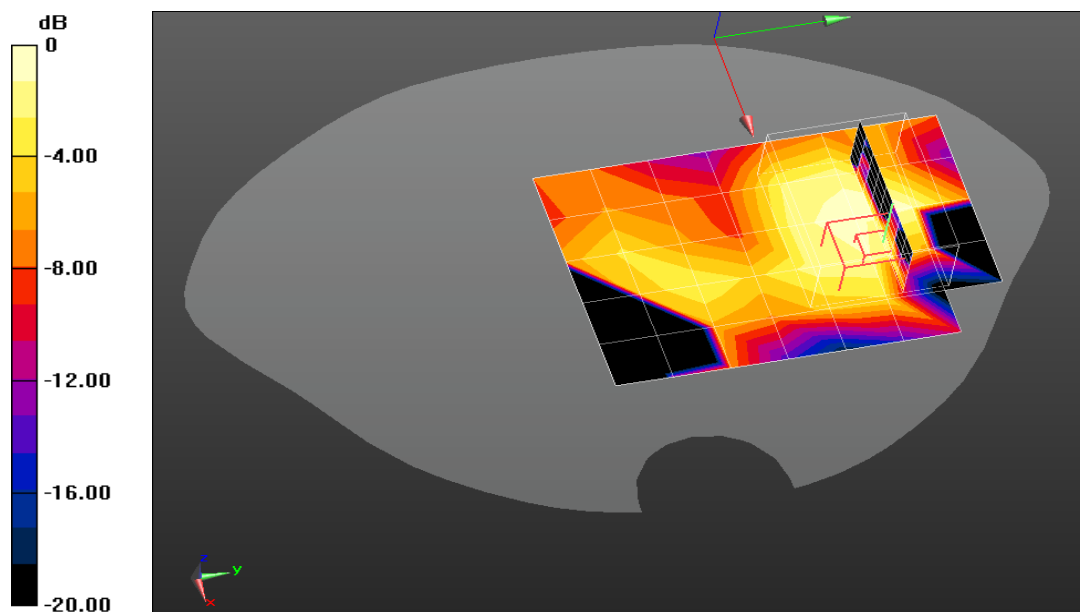
Configuration/Bluetooth High Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00669 mW/g

Configuration/Bluetooth High Body-Back/Zoom Scan (9x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 0.894 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0290

SAR(1 g) = 0.006 mW/g; SAR(10 g) = 0.003 mW/g Maximum value of SAR (measured) = 0.00733 mW/g



0 dB = 0.0073mW/g = -42.73 dB mW/g