



SAR Test Report

Product Name : HUAWEI Ascend G 302D; Ascend G 302D; TINO;
Tino; HSDPA/UMTS/GPRS/GSM/EDGE Mobile
Phone with Bluetooth

Model No. : HUAWEI U8812D-5, U8812D-5, HUAWEI
U8812D, U8812D

FCC ID : QISU8812D-5

Applicant : Huawei Technologies Co., Ltd.
Address : Bantian, Longgang District, Shenzhen, 518129 Guangdong,
P. R. China

Date of Receipt : 17/05/2012
Date of Test : 16/06/2012~18/06/2012
Issued Date : 28/06/2012
Report No. : 125S046R-HP-US-P03V01
Report Version : V 1.0

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Test Report Certification

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Manufacturer : Huawei Technologies Co., Ltd.

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Model No. : HUAWEI U8812D-5, U8812D-5, HUAWEI U8812D, U8812D

FCC ID : QISU8812D-5

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: 0.494 W/kg

Body: 1.2 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:

Taiwan R.O.C.	:	BSMI, NCC, TAF
Germany	:	TUV Rheinland
Norway	:	Nemko, DNV
USA	:	FCC, NVLAP
Japan	:	VCCI
China	:	CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site :<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

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	HUAWEI Ascend G 302D; Ascend G 302D; TINO; Tino; HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth
Model No.	HUAWEI U8812D-5, U8812D-5, HUAWEI U8812D, U8812D
Hardware Version	A52_MB_V3.0
Software Version	U8812DV100R001C41B100SP04
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GPS	
Operate Frequency	1575.42MHz
Type of modulation	BPSK
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	Rel-6
Type of modulation	GMSK for GSM/GPRS; 8PSK for EDGE
Antenna Gain	GSM 850: -2.3dBi PCS1900: -0.5dBi
3G	
Support Band	WCDMA Band I/WCDMA Band II/WCDMA Band V/ WCDMA Band VIII
Uplink	WCDMA Band V: 824~849MHz WCDMA Band II: 1850~1910MHz
Downlink	WCDMA Band V: 869~894MHz WCDMA Band II: 1930~1990MHz
UE Category	HSDPA: Category 8 HSUPA: Category 6

Release Version	UMTS FDD: Rel-6
Type of modulation	QPSK
Antenna Gain	WCDMA Band V: -2.3dBi WCDMA Band II: -0.5dBi
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	-4.0dBi
Wi-Fi	
Hotspots Function	YES
Wi-Fi Frequency	802.11b/g/n(20MHz): 2412 ~ 2462 MHz 802.11n(40MHz): 2422 ~ 2452 MHz
Type of modulation	802.11b: DSSS; 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11n: up to 150 Mbps
Antenna Gain	-4.0dBi
Components	
Headset Model Number #1	HUAWEI/ 125G#+3261# 3.5MM-2
Headset Model Number #2	HUAWEI/ MEMD1532A761A00
Battery #1	Brand Name: HUAWEI M/N: HB5N1 Rated Voltage and Capacitance: 3.7V/1350mAh S/N: BAAC227F98000344
Battery #2	Brand Name: HUAWEI M/N: HB5N1H Rated Voltage and Capacitance: 3.7V/1500mAh S/N: BAAC424F13800165
Battery #3	Brand Name: HUAWEI M/N: HB5N1 Rated Voltage and Capacitance: 3.7V/1350mAh S/N: GAGC219Z98008748
Adapter #1	Brand Name: HUAWEI M/N: HW-050100U1W Input: 100-240V~50/60Hz 0.2A MAX

	Output: 5Vdc, 1A S/N: TPAB61442672
Adapter #2	Brand Name: HUAWEI M/N: HW-050100U1W Input: 100-240V~50/60Hz 0.2A MAX Output: 5Vdc, 1A S/N: HKAB51621440

Note 1: They are only for different marketing requirement.

Note 2: Headset #1 and #2 have the same circuit.

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.

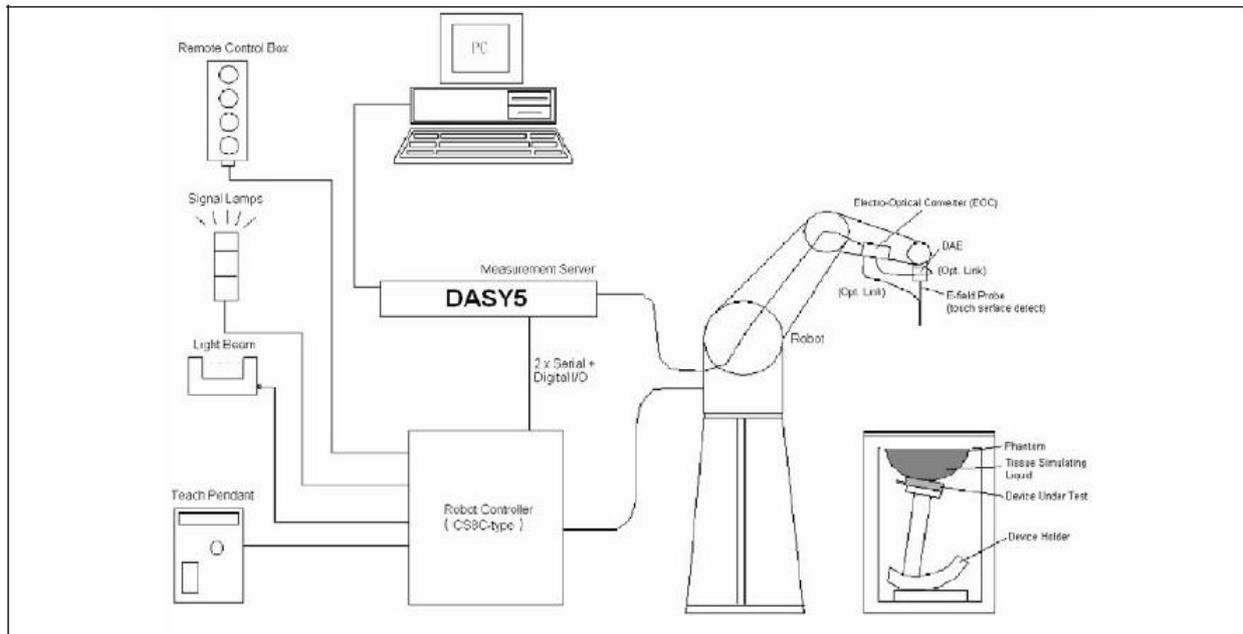
1.3. Test Environment

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 10mm² 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/m³ 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 7x7x7 (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 µW/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/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 $\epsilon_r = 3$ 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
	16-06-2012	41.24	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
	17-06-2012	39.83	1.45	21.0
2450MHz	Reference result ± 5% window	39.2 37.24 to 41.16	1.80 1.71 to 1.89	N/A
	18-06-2012	38.8	1.82	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
	16-06-2012	53.98	0.97	21.0
1900 MHz	Reference result ± 5% window	53.3 50.64 to 55.97	1.52 1.44 to 1.60	N/A
	17-06-2012	53.23	1.53	21.0
2450MHz	Reference result ± 5% window	52.7 50.07 to 55.34	1.95 1.85 to 2.05	N/A
	18-06-2012	52.63	1.97	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.

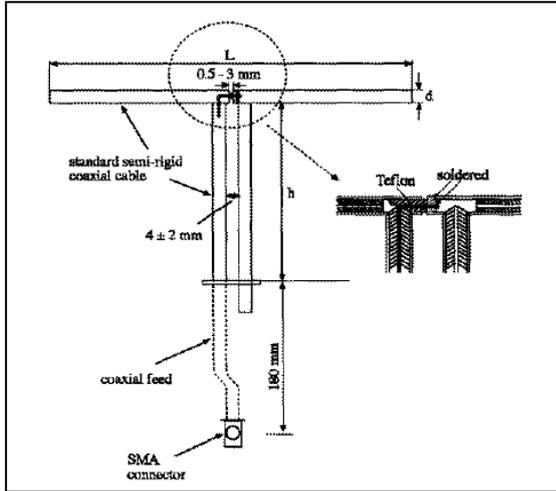
Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	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	9.41 8.47 to 10.35	6.15 5.54 to 6.77	N/A
	16-06-2012	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	20.8 18.72 to 22.88	N/A
	17-06-2012	38.2	19.48	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	52.3 47.07 to 57.53	24.5 22.05 to 26.95	N/A
	18-06-2012	51.2	22.96	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	9.57 8.61 to 10.53	6.33 5.70 to 6.96	N/A
	16-06-2012	9.6	6.24	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	38.7 34.83 to 42.57	20.4 18.36 to 22.44	N/A
	17-06-2012	39.08	20.08	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	51.6 46.44 to 56.76	24.2 21.78 to 26.62	N/A
	18-06-2012	48.4	22.24	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 1mm²) 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 1mm³).

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	2013.04.18
Vector Network	Agilent	E5071C	MY48367267	2013.04.10
Signal Generator	Agilent	E4438C	MY49070163	2013.04.18
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.	(c) 1g	(c) 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	√3	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	√3	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	√3	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	√3	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	√3	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	√3	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	√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	√3	1	1	±2.9%	±2.9%	∞
Phantom and Setup								
Phantom Uncertainty	±4.0%	R	√3	1	1	±2.3%	±2.3%	∞
Liquid Conductivity (target)	±5.0%	R	√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	√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 <SIM 2>				
GSM850	824.2	32.40	-9	23.40
	836.4	32.46	-9	23.46
	848.8	32.44	-9	23.44
GPRS850(1 Slot)	824.2	32.39	-9	23.39
	836.4	32.44	-9	23.44
	848.8	32.44	-9	23.44
GPRS850(2 Slot)	824.2	30.49	-6	24.49
	836.4	30.52	-6	24.52
	848.8	30.53	-6	24.53
GPRS850(3 Slot)	824.2	28.77	-4.25	24.52
	836.4	28.82	-4.25	24.57
	848.8	28.84	-4.25	24.59
GPRS850(4 Slot)	824.2	27.65	-3	24.65
	836.4	27.69	-3	24.69
	848.8	27.72	-3	24.72
EDGE850(1 Slot)	824.2	26.52	-9	17.52
	836.4	26.54	-9	17.54
	848.8	26.57	-9	17.57
EDGE850 (2slot)	824.2	25.38	-6	19.38
	836.4	25.45	-6	19.45
	848.8	25.43	-6	19.43
EDGE 850 (3slot)	824.2	23.31	-4.25	19.06
	836.4	23.33	-4.25	19.08
	848.8	23.41	-4.25	19.16
EDGE 850 (4slot)	824.2	22.24	-3	19.24
	836.4	22.37	-3	19.37
	848.8	22.40	-3	19.40
PCS1900	1850.2	29.57	-9	20.57
	1880.0	29.54	-9	20.54
	1909.8	29.43	-9	20.43
GPRS1900(1 Slot)	1850.2	29.56	-9	20.56
	1880.0	29.54	-9	20.54
	1909.8	29.43	-9	20.43

GPRS1900(2 Slot)	1850.2	28.02	-6	22.02
	1880.0	27.95	-6	21.95
	1909.8	27.87	-6	21.87
GPRS1900(3 Slot)	1850.2	25.94	-4.25	21.69
	1880.0	25.87	-4.25	21.62
	1909.8	25.79	-4.25	21.54
GPRS1900(4 Slot)	1850.2	24.85	-3	21.85
	1880.0	24.81	-3	21.81
	1909.8	24.75	-3	21.75
EDGE 1900(1 Slot)	1850.2	25.84	-9	16.84
	1880.0	25.85	-9	16.85
	1909.8	25.89	-9	16.89
EDGE 1900 (2slot)	1850.2	24.54	-6	18.54
	1880.0	24.53	-6	18.53
	1909.8	24.56	-6	18.56
EDGE 1900 (3slot)	1850.2	22.31	-4.25	18.06
	1880.0	22.30	-4.25	18.05
	1909.8	22.32	-4.25	18.07
EDGE 1900 (4slot)	1850.2	20.90	-3	17.90
	1880.0	20.84	-3	17.84
	1909.8	20.79	-3	17.79
Maximum Power <SIM 1>				
GSM850	836.4	32.43	-9	23.43
PCS1900	1880.0	29.51	-9	20.51

Note 1: All SAR testing was done in SIM 2.

Note 2: SIM1 equal to WCDMA Slot, SIM 2 equal to GSM Slot. WCDMA compatible with GSM. So the mobile phone supports two SIM cards.

Note 3: According to the output value listed above, the EDGE mode was not determined for SAR testing, refer to KDB 941225.

WCDMA/HSDPA/HSUPA

Mode	3GPP Subtest	Band II (1900MHz) Channel						MPR
		Conducted Power (dBm)			EIRP (dBm)			
		9262	9400	9538	9262	9400	9538	
WCDMA R99	1	22.99	23.30	22.98	21.63	20.58	20.60	N/A
Rel5 HSDPA	1	22.16	22.38	22.10	21.42	20.33	20.21	0
	2	22.14	22.37	22.11	---	---	---	0
	3	21.62	21.83	21.58	---	---	---	0.5
	4	21.59	21.86	21.62	---	---	---	0.5
Rel6 HSUPA	1	22.13	22.40	22.15	21.40	20.49	20.49	0.0
	2	20.11	20.37	20.13	---	---	---	2.0
	3	21.15	21.36	21.09	---	---	---	1.0
	4	20.08	20.43	20.11	---	---	---	2.0
	5	22.13	22.38	22.14	---	---	---	0.0

Mode	3GPP Subtest	Band V (850MHz) Channel						MPR
		Conducted Power (dBm)			ERP (dBm)			
		4132	4182	4233	4132	4182	4233	
WCDMA R99	1	23.35	23.37	23.48	17.88	19.54	19.91	N/A
Rel5 HSDPA	1	22.46	22.48	22.63	17.88	19.46	19.72	0
	2	22.48	22.46	22.65	---	---	---	0
	3	21.92	21.81	22.08	---	---	---	0.5
	4	21.94	21.85	22.11	---	---	---	0.5
Rel6 HSUPA	1	22.49	22.47	22.65	17.83	19.12	19.89	0.0
	2	20.46	20.44	20.62	---	---	---	2.0
	3	21.50	21.46	21.67	---	---	---	1.0
	4	20.51	20.44	20.63	---	---	---	2.0
	5	22.53	22.49	22.64	---	---	---	0.0

Note : According to the output value listed above, the HSDPA and HSUPA mode was not determined for SAR testing, refer to KDB 941225.

WLAN output power

Test Mode	Channel No.	Frequency (MHz)	Average Power (dBm)
802.11b	01	2412	15.17
	06	2437	15.11
	11	2462	15.03
802.11g	01	2412	11.99
	06	2437	12.16
	11	2462	12.06
802.11n (20MHz)	01	2412	12.03
	06	2437	12.22
	11	2462	12.09
802.11n (40MHz)	03	2422	9.37
	06	2437	10.23
	09	2452	10.11

Note: According to the KDB 248227. SAR is not required for 802.11g/n channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11b channels.

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 10mm 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.

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. Simultaneous Transmission Configure

Configure mode	Bluetooth	WWAN	WLAN
1	X	X	
2		X	X

Note : Bluetooth output power is 4.95dBm. Referring to KDB 648474

- 1, The power is less than Pref.
- 2, 8.7cm away from WWAN antenna.
- 3, Bluetooth shares the same antenna with WLAN, they cannot transmit simultaneously.

Therefore, standalone SAR and simultaneous SAR for Bluetooth is not required.

9.1.5. Simultaneous Transmission SAR Analysis

Reference document: KDB 447498 and KDB 648474, KDB 248227.

Head Max SAR value and the sum of the 1-g SAR for WLAN & WWAN.

Max 1-g SAR (W/kg)		Σ 1-g SAR (W/kg)
WLAN	WWAN	
0.081	0.494	0.575

Body SAR value and the sum of the 1-g SAR for WLAN & WWAN.

Max 1-g SAR (W/kg)		Σ 1-g SAR (W/kg)
WLAN	WWAN	
0.086	1.2	1.286

Conclusion:

Simultaneous Transmission
WLAN & WWAN

Require for Simultaneous Transmission SAR with Volume Scans
No (The sum of the 1-g SAR is < 1.6 W/kg)

9.1.6. Hot Spot test requirement

Referring to KDB 941225 D06 v01, the EUT size > 9cm x 5cm, thus, test separation of 10 mm is required. GSM/WCDMA antenna is less than 25 mm away from mobile phone bottom and side, WLAN antenna is less than 25 mm away from mobile phone top and left side, so SAR should be measured these sides.

9.1.7. 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: Mobile Phone							
Test Mode: GSM850 <SIM 2>							
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	23.40	--	--	1.6
Left-Cheek	Fixed	189	836.4	23.46	0.18	0.226	1.6
Left-Cheek	Fixed	251	848.8	23.44	--	--	1.6
Left-Tilted	Fixed	189	836.4	23.46	-0.14	0.143	1.6
Right-Cheek	Fixed	128	824.2	23.40	--	--	1.6
Right-Cheek	Fixed	189	836.4	23.46	-0.15	0.247	1.6
Right-Cheek	Fixed	251	848.8	23.44	--	--	1.6
Right-Tilted	Fixed	189	836.4	23.46	-0.08	0.169	1.6
Test Mode: GSM850 <SIM 1>							
Right-Cheek	Fixed	189	836.4	23.43	-0.13	0.221	1.6
Note 1: 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: 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	10	23.40	--	--	1.6
Body-worn	Fixed	189	836.4	10	23.46	-0.01	0.584	1.6
Body-worn	Fixed	251	848.8	10	23.44	--	--	1.6
Body-worn (With Headset)	Fixed	189	836.4	10	23.46	-0.01	0.517	1.6
Test Mode: GPRS850-2slot								
Body-worn	Fixed	189	836.4	10	24.52	-0.01	0.614	1.6
Test Mode: GPRS850-3slot								
Body-worn	Fixed	189	836.4	10	24.57	-0.05	0.745	1.6
Test Mode: GPRS850-4slot								
Body-worn	Fixed	128	824.2	10	24.65	--	--	1.6
Body-worn	Fixed	189	836.4	10	24.69	-0.01	0.777	1.6
Body-worn	Fixed	251	848.8	10	24.72	--	--	1.6
Body-front	Fixed	189	836.4	10	24.69	-0.06	0.397	1.6
Body-worn (With Headset)	Fixed	189	836.4	10	24.69	-0.03	0.662	1.6
Body-bottom	Fixed	189	836.4	10	24.69	-0.13	0.042	1.6
Body-right side	Fixed	189	836.4	10	24.69	-0.06	0.512	1.6
Body-left side	Fixed	189	836.4	10	24.69	-0.02	0.391	1.6
Body-worn (With Battery #2)	Fixed	189	836.4	10	24.69	0.08	0.779	1.6
Body-worn (With Battery #3)	Fixed	189	836.4	10	24.69	-0.07	0.772	1.6
Note 1: When the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225. Note 2: GSM antenna is less than 25 mm away from mobile phone bottom and side, so that should be tested, 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: Mobile Phone							
Test Mode: PCS1900 <SIM 2>							
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	20.57	--	--	1.6
Left-Cheek	Fixed	661	1880.0	20.54	0.11	0.212	1.6
Left-Cheek	Fixed	810	1909.8	20.43	--	--	1.6
Left-Tilted	Fixed	661	1880.0	20.54	-0.04	0.092	1.6
Right-Cheek	Fixed	512	1850.2	20.57	--	--	1.6
Right-Cheek	Fixed	661	1880.0	20.54	-0.12	0.229	1.6
Right-Cheek	Fixed	810	1909.8	20.43	--	--	1.6
Right-Tilted	Fixed	661	1880.0	20.54	-0.06	0.118	1.6
Test Mode: PCS1900 <SIM 1>							
Right-Cheek	Fixed	661	1880.0	20.51	-0.12	0.217	1.6
Note 1: When the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 9412225.							

SAR MEASUREMENT								
Ambient Temperature (°C) : 21.5 ±2				Relative Humidity (%) : 52				
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15				
Product: 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	10	20.57	--	--	1.6
Body-worn	Fixed	661	1880.0	10	20.54	0.18	0.719	1.6
Body-worn	Fixed	810	1909.8	10	20.43	--	--	1.6
Body-worn (With Headset)	Fixed	661	1880.0	10	20.54	0.03	0.711	1.6
Test Mode: GPRS1900-2slot								
Body-worn	Fixed	512	1850.2	10	22.02	-0.04	0.883	1.6
Body-worn	Fixed	661	1880.0	10	21.95	0.07	0.881	1.6
Body-worn	Fixed	810	1909.8	10	21.87	0.11	0.889	1.6
Body-worn (With Headset)	Fixed	661	1880.0	10	21.95	-0.01	0.866	1.6
Body-front	Fixed	661	1880.0	10	21.95	-0.10	0.406	1.6
Body-bottom	Fixed	810	1909.8	10	21.87	0.05	0.431	1.6
Body-right side	Fixed	810	1909.8	10	21.87	0.10	0.113	1.6
Body-left side	Fixed	810	1909.8	10	21.87	0.13	0.133	1.6
Body-worn ((With Battery #2)	Fixed	810	1909.8	10	21.87	0.10	0.999	1.6
Body-worn ((With Battery #3)	Fixed	810	1909.8	10	21.87	-0.04	0.980	1.6
Test Mode: GPRS1900-3slot								
Body-worn	Fixed	661	1880.0	10	21.62	0.08	0.794	1.6
Test Mode: GPRS1900-4slot								
Body-worn	Fixed	512	1850.2	10	21.85	-0.02	0.844	1.6
Body-worn	Fixed	661	1880.0	10	21.81	0.01	0.860	1.6
Body-worn	Fixed	810	1909.8	10	21.75	0.14	0.830	1.6

Note 1: When the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.

Note 2: GSM antenna is less than 25 mm away from mobile phone bottom and side, so that should be tested, 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: Mobile Phone							
Test Mode: WCDMA Band II							
Test Position Head	Antenna Position	Frequency		Conducted Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz				
Left-Cheek	Fixed	9262	1852.4	22.99	--	--	1.6
Left-Cheek	Fixed	9400	1880.0	23.30	0.14	0.377	1.6
Left-Cheek	Fixed	9538	1907.6	22.98	--	--	1.6
Left-Tilt	Fixed	9400	1880.0	23.30	-0.12	0.143	1.6
Right-Cheek	Fixed	9262	1852.4	22.99	--	--	1.6
Right-Cheek	Fixed	9400	1880.0	23.30	-0.06	0.494	1.6
Right-Cheek	Fixed	9538	1907.6	22.98	--	--	1.6
Right-Tilt	Fixed	9400	1880.0	23.30	-0.01	0.248	1.6

Note 1: 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: Mobile Phone								
Test Mode: WCDMA Band II								
Test Position Body	Antenna Position	Frequency		Separation Distance (mm)	Conducted Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz					
Body-worn	Fixed	9262	1852.4	10	22.99	0.09	1.2	1.6
Body-worn	Fixed	9400	1880.0	10	23.30	-0.15	1.2	1.6
Body-worn	Fixed	9538	1907.6	10	22.98	-0.02	1.16	1.6
Body-front	Fixed	9400	1880.0	10	23.30	-0.06	0.541	1.6
Body-worn (With Headset)	Fixed	9400	1880.0	10	23.30	0.04	1.19	1.6
Body-bottom	Fixed	9400	1880.0	10	23.30	0.11	0.649	1.6
Body-right side	Fixed	9400	1880.0	10	23.30	0.11	0.172	1.6
Body-left side	Fixed	9400	1880.0	10	23.30	-0.11	0.191	1.6
Body-worn (With Battery #2)	Fixed	9400	1880.0	10	23.30	0.08	1.17	1.6
Body-worn (With Battery #3)	Fixed	9400	1880.0	10	23.30	0.02	1.19	1.6
Note 1: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.								
Note 2: WCDMA antenna is less than 25 mm away from mobile phone bottom and side, so that should be tested, 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: Mobile Phone							
Test Mode: WCDMA Band V							
Test Position Head	Antenna Position	Frequency		Conducted Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz				
Left-Cheek	Fixed	4132	826.4	23.35	--	--	1.6
Left-Cheek	Fixed	4182	836.4	23.37	-0.12	0.182	1.6
Left-Cheek	Fixed	4233	846.6	23.48	--	--	1.6
Left-Tilt	Fixed	4182	836.4	23.37	-0.08	0.116	1.6
Right-Cheek	Fixed	4132	826.4	23.35	--	--	1.6
Right-Cheek	Fixed	4182	836.4	23.37	0.01	0.194	1.6
Right-Cheek	Fixed	4233	846.6	23.48	--	--	1.6
Right-Tilt	Fixed	4182	836.4	23.37	0.15	0.142	1.6
Note 1: 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: Mobile Phone								
Test Mode: WCDMA Band V								
Test Position Body	Antenna Position	Frequency		Separation Distance (mm)	Conducted Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz					
Body-worn	Fixed	4132	826.4	10	23.35	--	--	1.6
Body-worn	Fixed	4182	836.4	10	23.37	-0.05	0.653	1.6
Body-worn	Fixed	4233	846.6	10	23.48	--	--	1.6
Body-front	Fixed	4182	836.4	10	23.37	-0.10	0.316	1.6
Body-worn (With Headset)	Fixed	4182	836.4	10	23.37	-0.03	0.561	1.6
Body-bottom	Fixed	4182	836.4	10	23.37	-0.19	0.032	1.6
Body-right side	Fixed	4182	836.4	10	23.37	-0.11	0.380	1.6
Body-left side	Fixed	4182	836.4	10	23.37	-0.02	0.279	1.6
Body-worn (With Battery #2)	Fixed	4182	836.4	10	23.37	-0.19	0.626	1.6
Body-worn (With Battery #3)	Fixed	4182	836.4	10	23.37	0.08	0.667	1.6
<p>Note 1: When the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 9412225.</p> <p>Note 2: WCDMA antenna is less than 25 mm away from mobile phone bottom and side, so that should be tested, refer to KDB 941225.</p>								

SAR MEASUREMENT							
Ambient Temperature (°C): 21.5 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C): 21.0 ±2				Depth of Liquid (cm):>15			
Product: Mobile Phone							
Test Mode: 802.11b							
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	1	2412	15.17	0.08	0.068	1.6
Left-Cheek	Fixed	6	2437	15.11	--	--	1.6
Left-Cheek	Fixed	11	2462	15.03	--	--	1.6
Left-Tilt	Fixed	1	2412	15.11	0.11	0.073	1.6
Right-Cheek	Fixed	1	2412	15.17	0.12	0.081	1.6
Right-Cheek	Fixed	6	2437	15.11	--	--	1.6
Right-Cheek	Fixed	11	2462	15.03	--	--	1.6
Right-Tilt	Fixed	1	2412	15.11	0.10	0.058	1.6

Note: When the SAR procedures require multiple channels to be tested and the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required, refer to KDB 447498.

SAR MEASUREMENT								
Ambient Temperature (°C): 21.5 ±2					Relative Humidity (%): 52			
Liquid Temperature (°C): 21.0 ±2					Depth of Liquid (cm):>15			
Product: Mobile Phone								
Test Mode: 802.11b								
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	1	2412	10	15.17	0.05	0.047	1.6
Body-worn	Fixed	6	2437	10	15.11	--	--	1.6
Body-worn	Fixed	11	2462	10	15.03	--	--	1.6
Body-worn (With Headset)	Fixed	1	2412	10	15.17	-0.08	0.084	1.6
Body-front (With Headset)	Fixed	1	2412	10	15.17	0.06	0.024	1.6
Body-top	Fixed	1	2412	10	15.17	0.08	0.033	1.6
Body-left side	Fixed	1	2412	10	15.17	-0.16	0.041	1.6
Body-worn (With Battery #2)	Fixed	1	2412	10	15.17	0.11	0.086	1.6
Body-worn (With Battery #3)	Fixed	1	2412	10	15.17	-0.10	0.057	1.6
<p>Note 1: When the SAR procedures require multiple channels to be tested and the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required, refer to KDB 447498.</p> <p>Note 2: WLAN antenna is less than 25 mm away from mobile phone top and left side, so that should be tested, refer to KDB 941225.</p>								

Appendix A. SAR System Validation Data

Date/Time: 16-06-2012

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: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.24$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section ; Input Power=250mW

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

DASY5 Configuration:

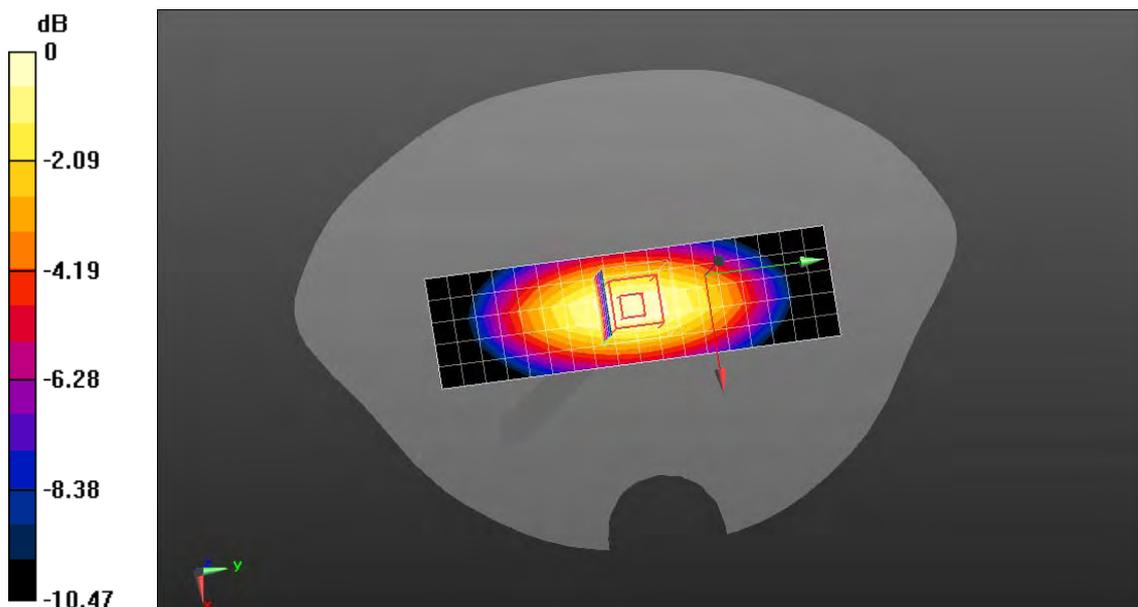
- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/System Check Head 835MHz/Area Scan (6x19x1): Measurement grid: dx=10mm, dy=10mm, Maximum value of SAR (measured) = 2.28 mW/g

Configuration/System Check Head 835MHz/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) = 3.376 mW/g

SAR(1 g) = 2.26 mW/g; SAR(10 g) = 1.47 mW/g Maximum value of SAR (measured) = 2.43 mW/g



0 dB = 2.43 mW/g = 7.71 dB mW/g

Date/Time: 16-06-2012

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: $f = 835 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 53.98$; $\rho = 1000 \text{ kg/m}^3$;

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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

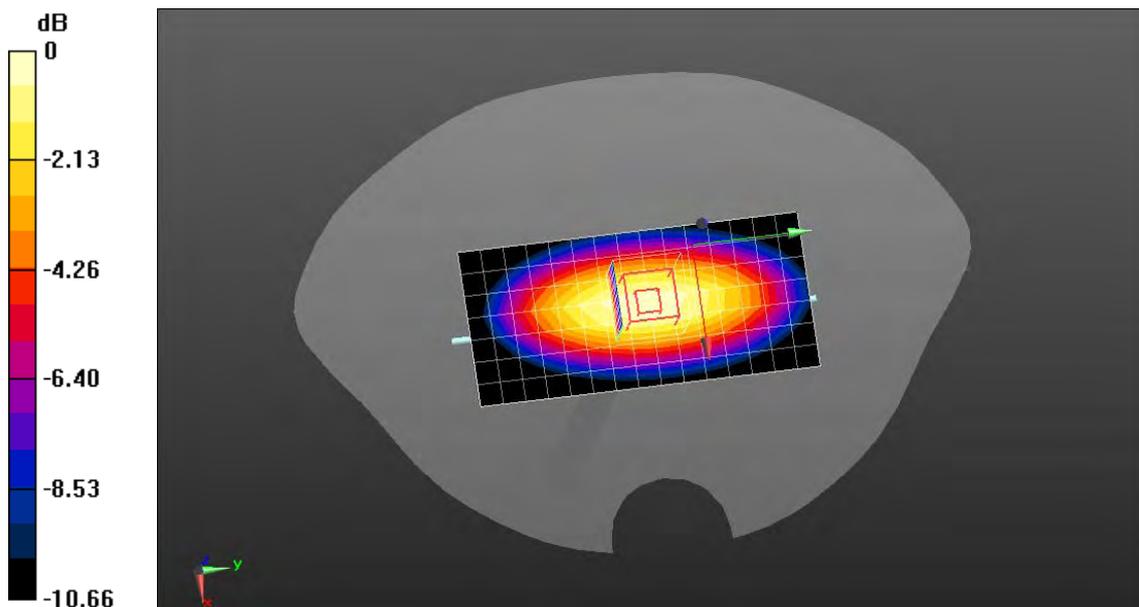
Configuration/System Check Body 835MHz/Area Scan (8x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.52 mW/g

Configuration/System Check Body 835MHz/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) = 3.650 mW/g

SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.56 mW/g Maximum value of SAR (measured) = 2.59 mW/g



0 dB = 2.59 mW/g = 8.27 dB mW/g

Date/Time: 16-06-2012

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; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.83$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

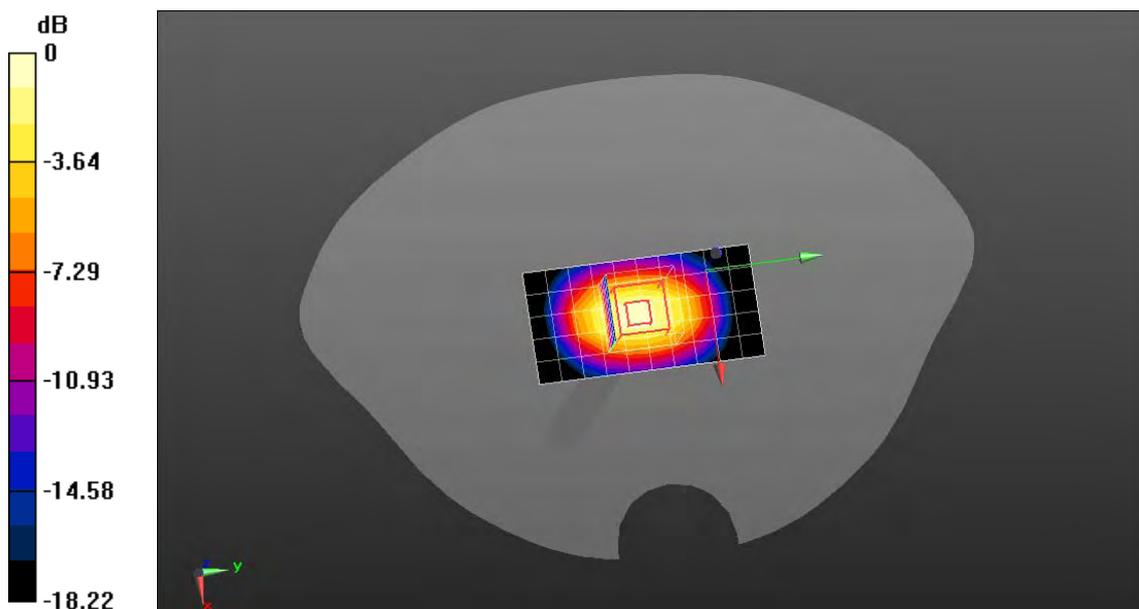
Configuration/System Check Head 1900MHz/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.17 mW/g

Configuration/System Check Head 1900MHz/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) = 18.294 mW/g

SAR(1 g) = 9.55 mW/g; SAR(10 g) = 4.87 mW/g Maximum value of SAR (measured) = 10.8 mW/g



0 dB = 10.8 mW/g = 20.67 dB mW/g

Date/Time: 16-06-2012

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; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.23$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

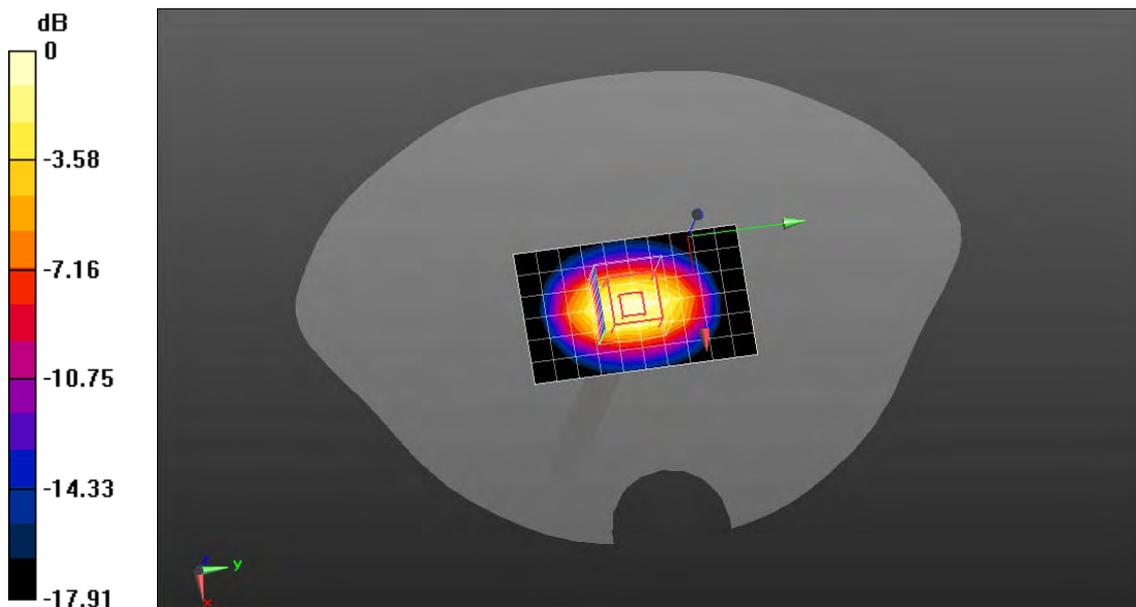
Configuration/System Check Body 1900MHz/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.9 mW/g

Configuration/System Check Body 1900MHz/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) = 18.253 mW/g

SAR(1 g) = 9.77 mW/g; SAR(10 g) = 5.02 mW/g Maximum value of SAR (measured) = 11.0 mW/g



0 dB = 11.0 mW/g = 20.83 dB mW/g

Date/Time: 16-06-2012

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; $\sigma = 1.82$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

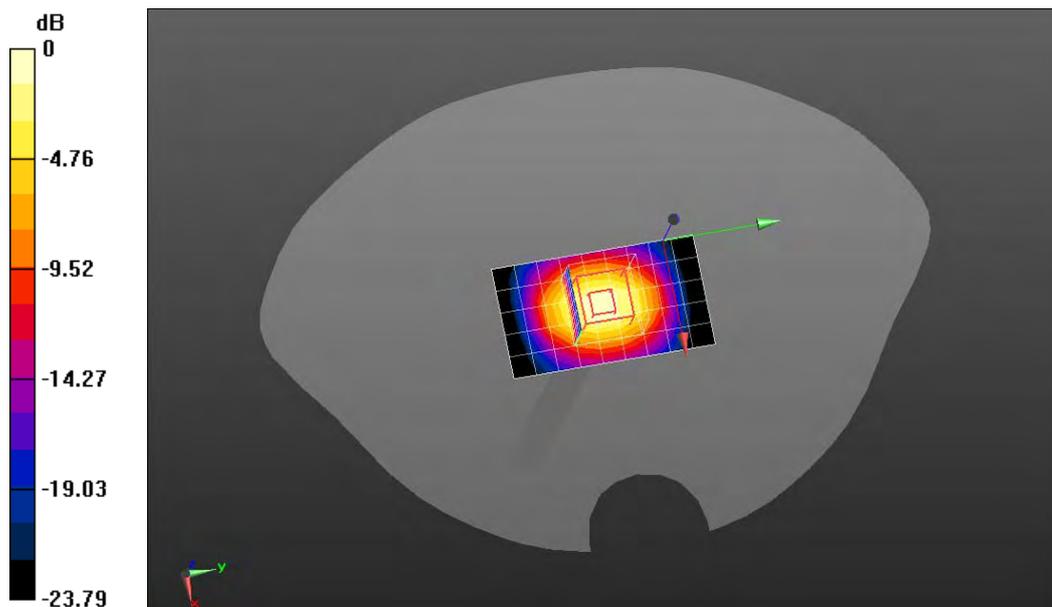
Configuration/System Check Head 2450MHz/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

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

Configuration/System Check Head 2450MHz/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) = 28.348 mW/g

SAR(1 g) = 12.8 mW/g; SAR(10 g) = 5.74 mW/g Maximum value of SAR (measured) = 14.6 mW/g



0 dB = 14.6 mW/g = 23.29 dB mW/g

Date/Time: 16-06-2012

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; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.63$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

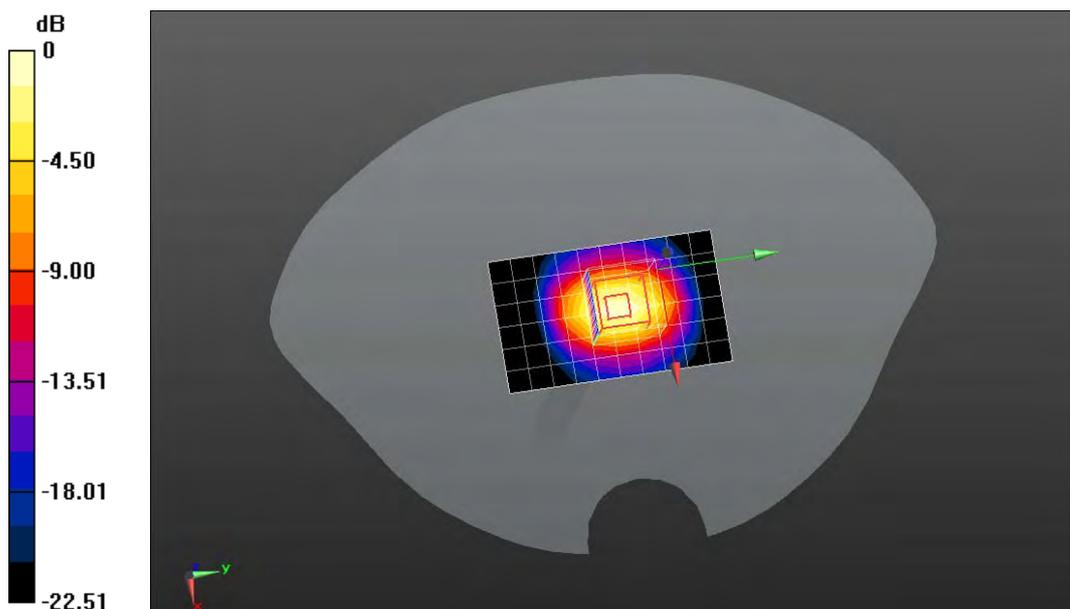
Configuration/System Check Body 2450MHz/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.3 mW/g

Configuration/System Check Body 2450MHz/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) = 25.096 mW/g

SAR(1 g) = 12.1 mW/g; SAR(10 g) = 5.56 mW/g Maximum value of SAR (measured) = 13.9 mW/g



0 dB = 13.9 mW/g = 22.86 dB mW/g

Appendix B. SAR measurement Data

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.22$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/GSM850 Mid Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

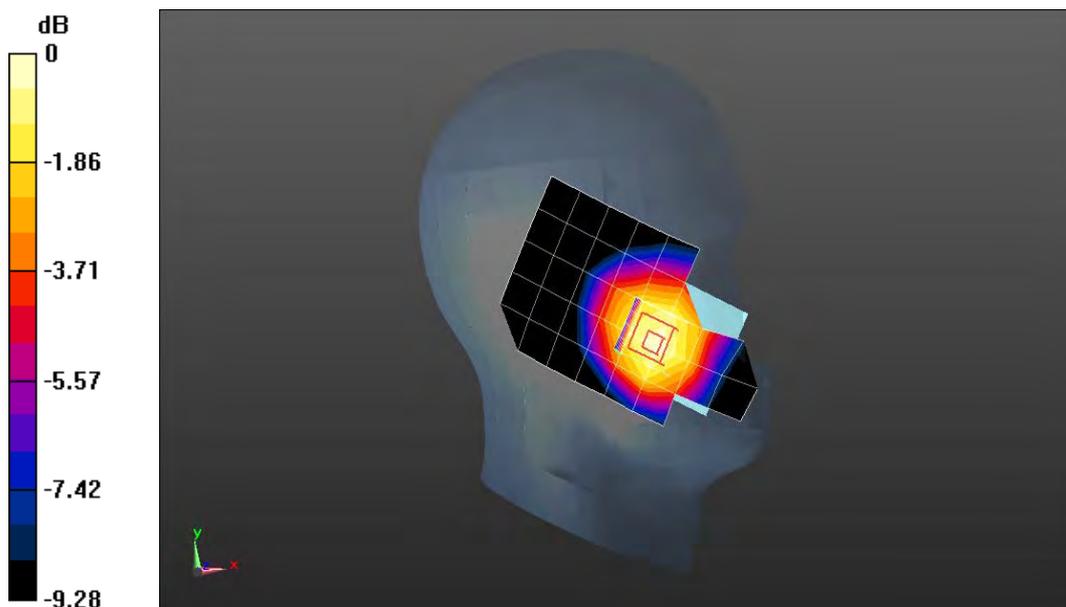
Maximum value of SAR (measured) = 0.236 mW/g

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

dy=8mm, dz=5mm, Reference Value = 3.107 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.270 mW/g

SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.173 mW/g Maximum value of SAR (measured) = 0.236 mW/g



0 dB = 0.236 mW/g = -12.54 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Tilt-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.22$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

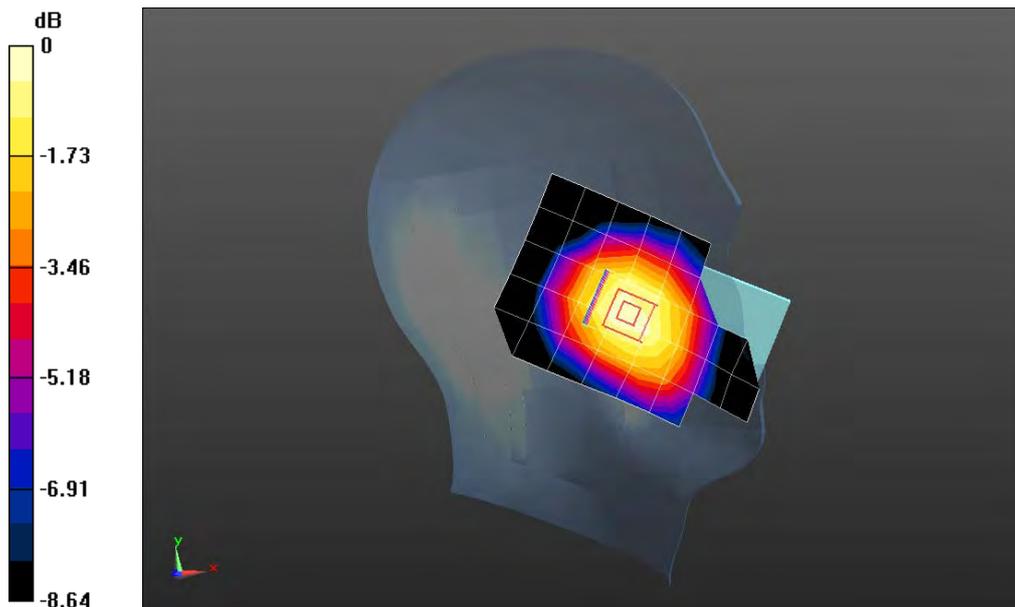
Configuration/GSM850 Mid Tilt-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.144 mW/g

Configuration/GSM850 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.724 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.176 mW/g

SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.110 mW/g Maximum value of SAR (measured) = 0.150 mW/g



0 dB = 0.150 mW/g = -16.48 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.22$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

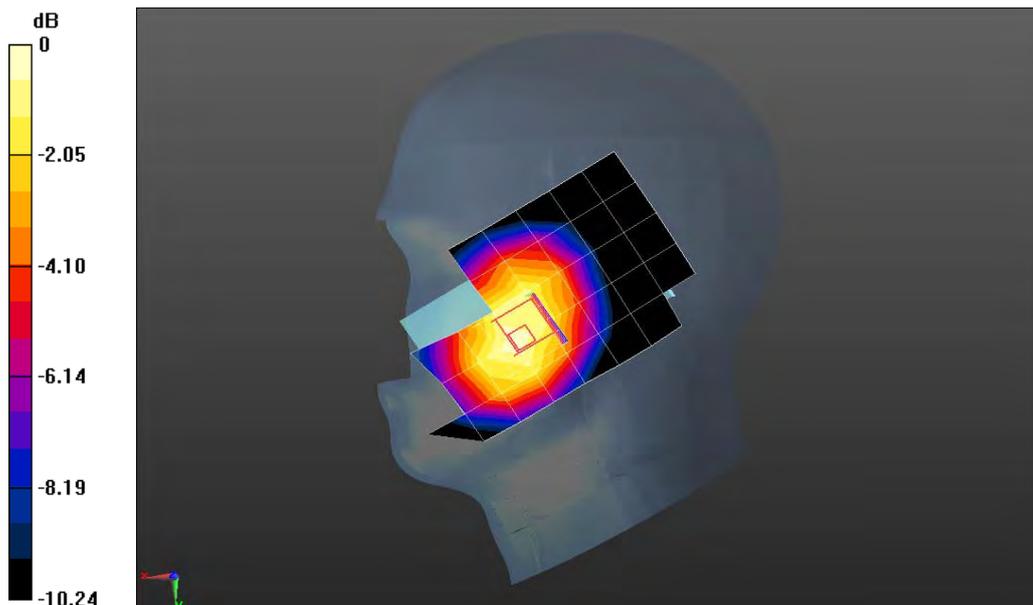
Configuration/GSM850 Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.260 mW/g

Configuration/GSM850 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 3.422 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.335 mW/g

SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.180 mW/g Maximum value of SAR (measured) = 0.259 mW/g



0 dB = 0.259 mW/g = -11.73 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Tilt-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.22$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

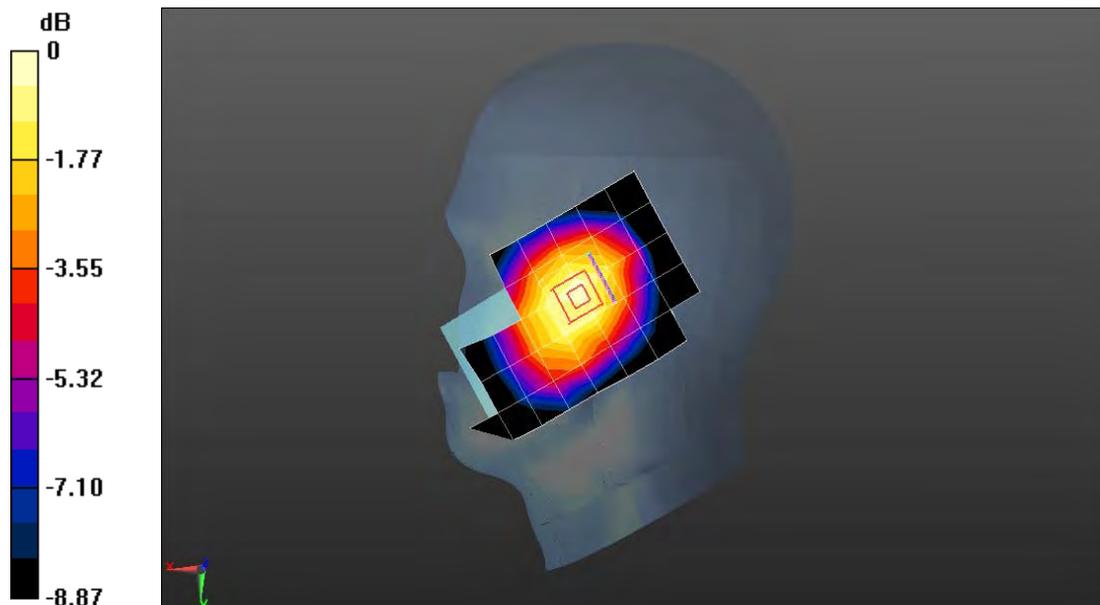
Configuration/GSM850 Mid Tilt-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.172 mW/g

Configuration/GSM850 Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.958 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.204 mW/g

SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.130 mW/g Maximum value of SAR (measured) = 0.176 mW/g



0 dB = 0.176 mW/g = -15.09 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Right <SIM 1>

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.22$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

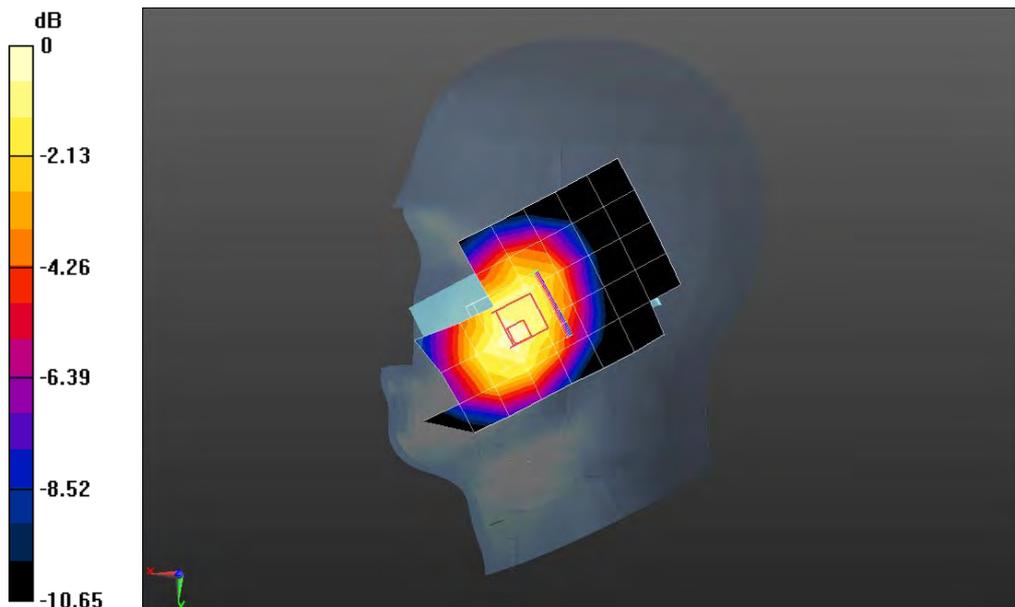
Configuration/GSM850 Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.233 mW/g

Configuration/GSM850 Mid Touch-Right/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 3.310 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.302 mW/g

SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.161 mW/g Maximum value of SAR (measured) = 0.230 mW/g



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

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GSM 850 Mid Body-Back

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

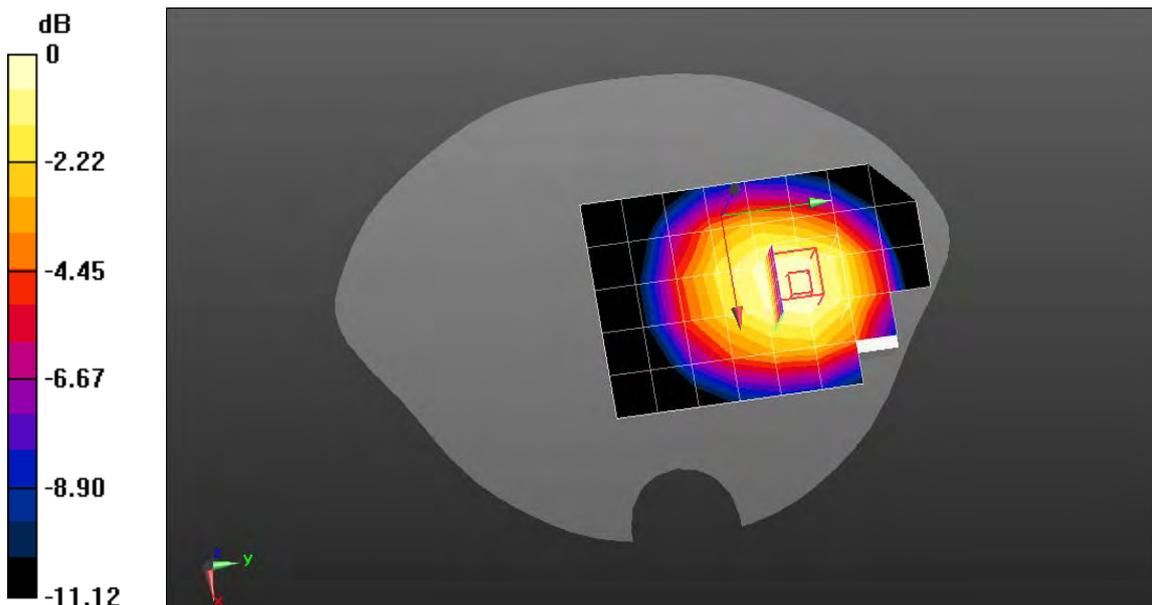
Configuration/GSM 850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.588 mW/g

Configuration/GSM 850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.205 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.766 mW/g

SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.432 mW/g Maximum value of SAR (measured) = 0.612 mW/g



0 dB = 0.612 mW/g = -4.26 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GSM 850 Mid Body-Back(with headset)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

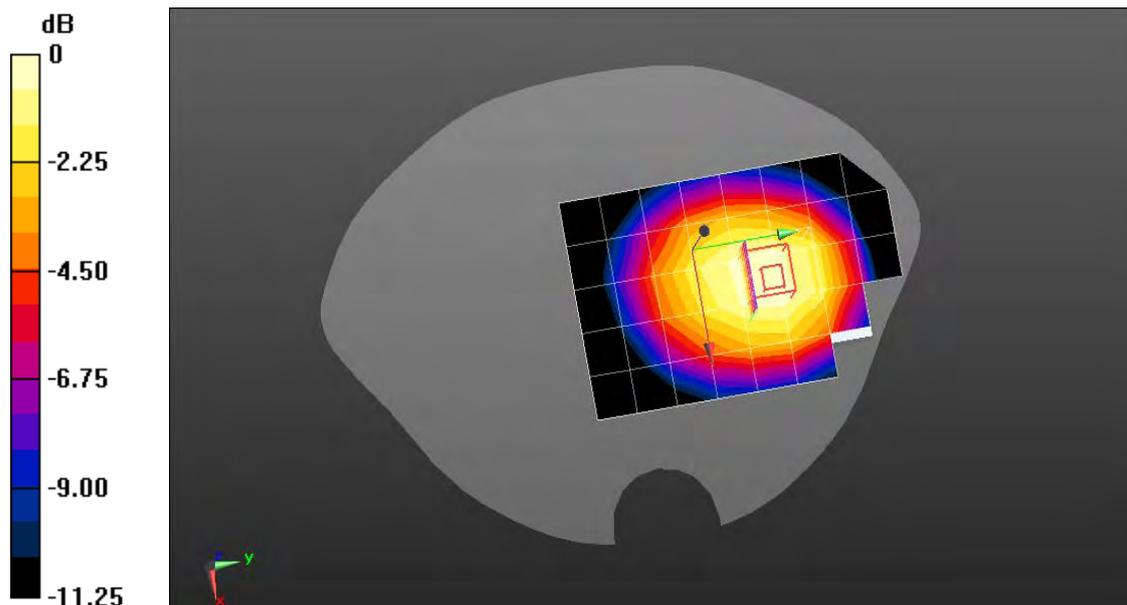
Configuration/GSM 850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.516 mW/g

Configuration/GSM 850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.100 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.670 mW/g

SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.381 mW/g Maximum value of SAR (measured) = 0.544 mW/g



0 dB = 0.544 mW/g = -5.29 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Back(2up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

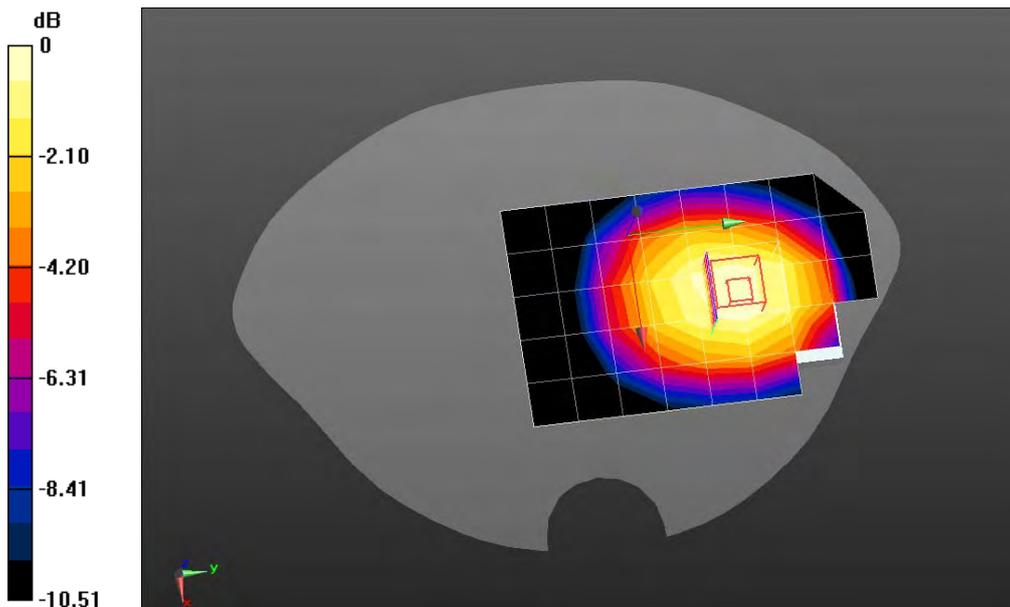
Configuration/GPRS 850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS 850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.335 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.790 mW/g

SAR(1 g) = 0.614 mW/g; SAR(10 g) = 0.455 mW/g Maximum value of SAR (measured) = 0.646 mW/g



0 dB = 0.646 mW/g = -3.80 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Back(3up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

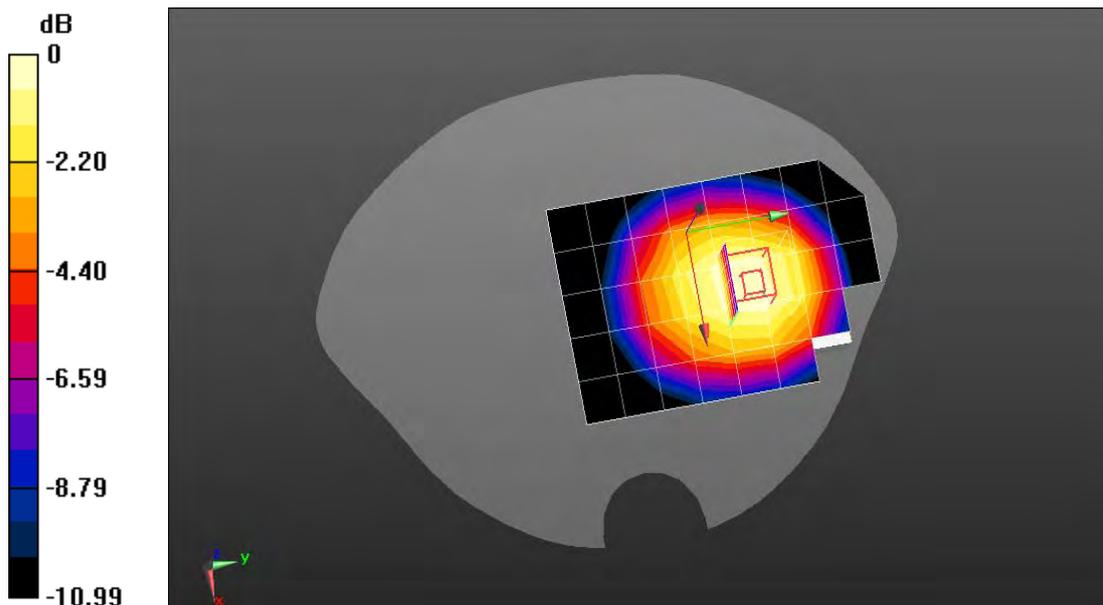
Configuration/GPRS 850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.743 mW/g

Configuration/GPRS 850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.329 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.966 mW/g

SAR(1 g) = 0.745 mW/g; SAR(10 g) = 0.550 mW/g Maximum value of SAR (measured) = 0.786 mW/g



0 dB = 0.786 mW/g = -2.09 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Back(4up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

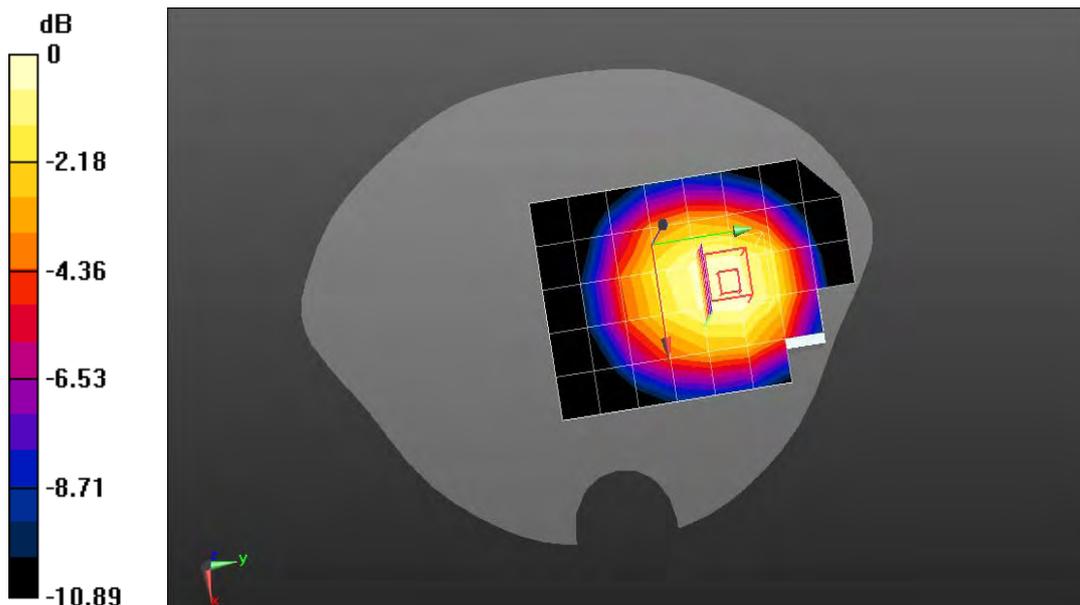
Configuration/GPRS 850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.779 mW/g

Configuration/GPRS 850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.491 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.004 mW/g

SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.576 mW/g Maximum value of SAR (measured) = 0.817 mW/g



0 dB = 0.817 mW/g = -1.76 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Front(4up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

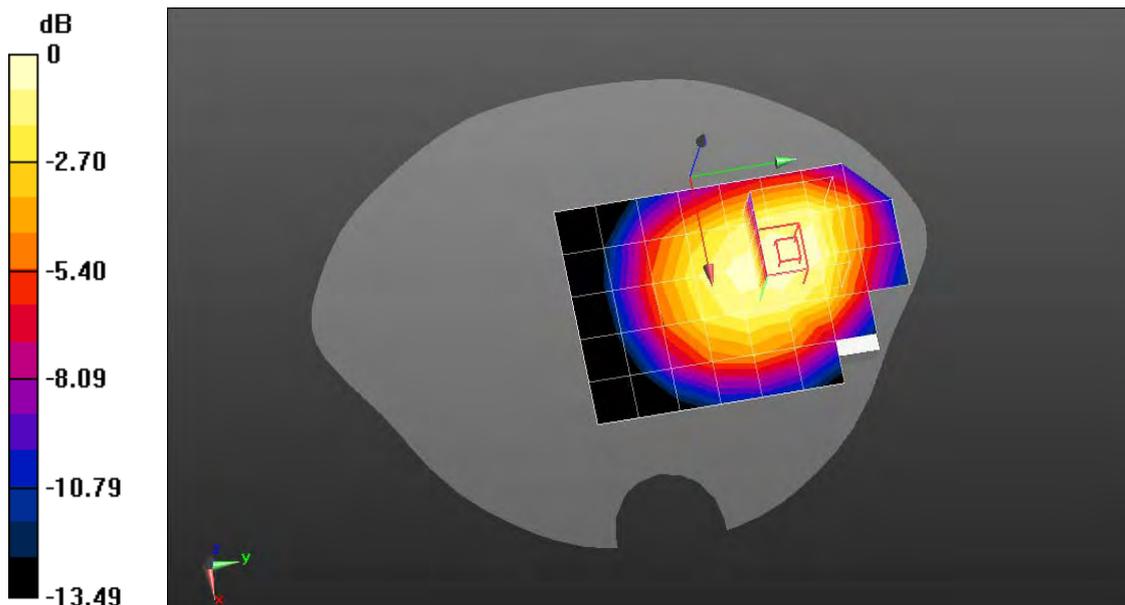
Configuration/GPRS 850 Mid Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.410 mW/g

Configuration/GPRS 850 Mid Body-Front/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.120 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.564 mW/g

SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.292 mW/g Maximum value of SAR (measured) = 0.415 mW/g



0 dB = 0.415 mW/g = -7.64 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Back(4up)(with headset)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

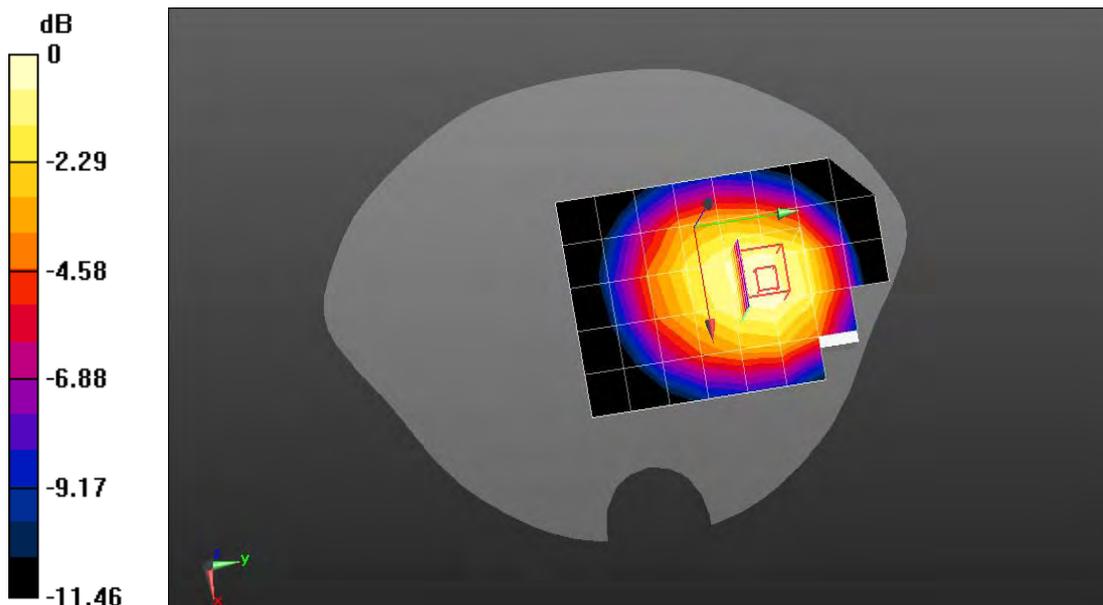
Configuration/GPRS 850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.664 mW/g

Configuration/GPRS 850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.133 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.863 mW/g

SAR(1 g) = 0.662 mW/g; SAR(10 g) = 0.485 mW/g Maximum value of SAR (measured) = 0.701 mW/g



0 dB = 0.701 mW/g = -3.09 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Bottom(4up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

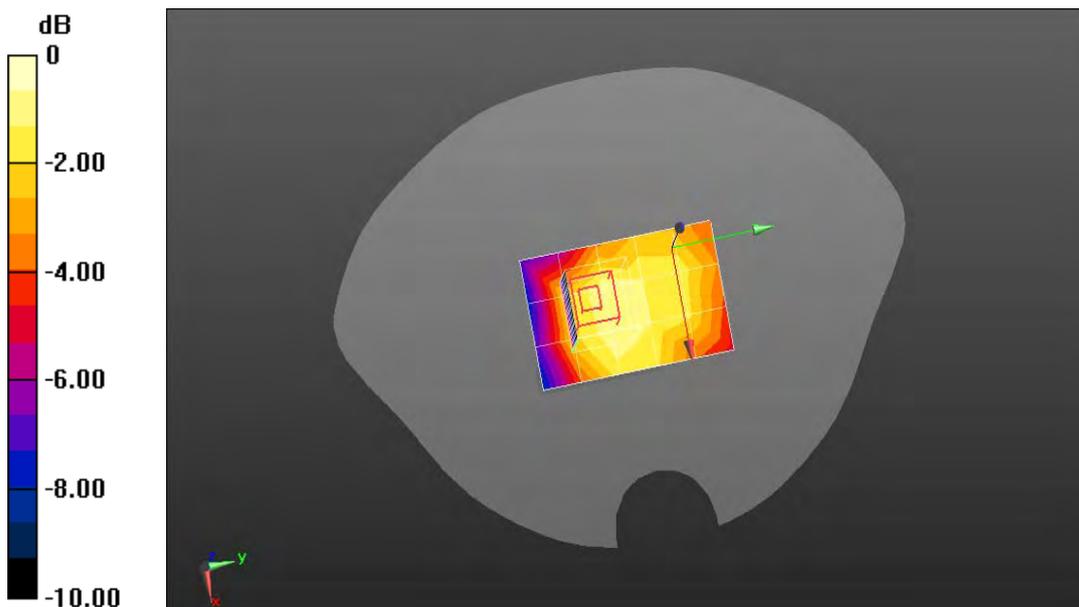
Configuration/GPRS 850 Mid Body-Bottom/Area Scan (4x6x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0391 mW/g

Configuration/GPRS 850 Mid Body-Bottom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.844 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.080 mW/g

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.024 mW/g Maximum value of SAR (measured) = 0.0458 mW/g



0 dB = 0.0458 mW/g = -26.78 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Right side(4up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

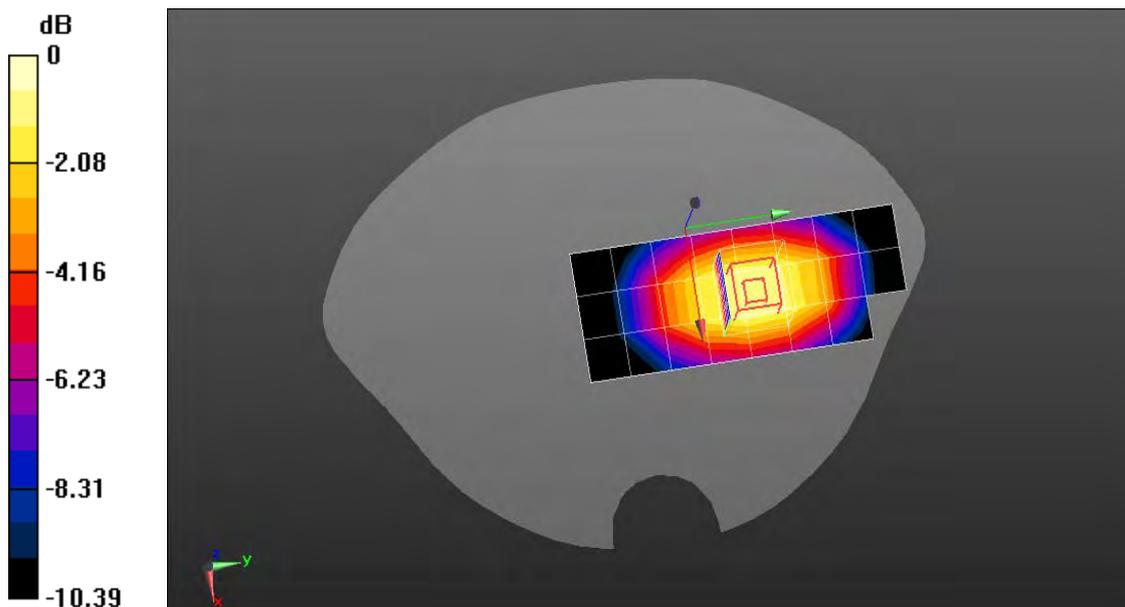
Configuration/GPRS 850 Mid Body-Right side/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.464 mW/g

Configuration/GPRS 850 Mid Body-Right side/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.250 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.742 mW/g

SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.347 mW/g Maximum value of SAR (measured) = 0.547 mW/g



0 dB = 0.547 mW/g = -5.24 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Left side(4up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

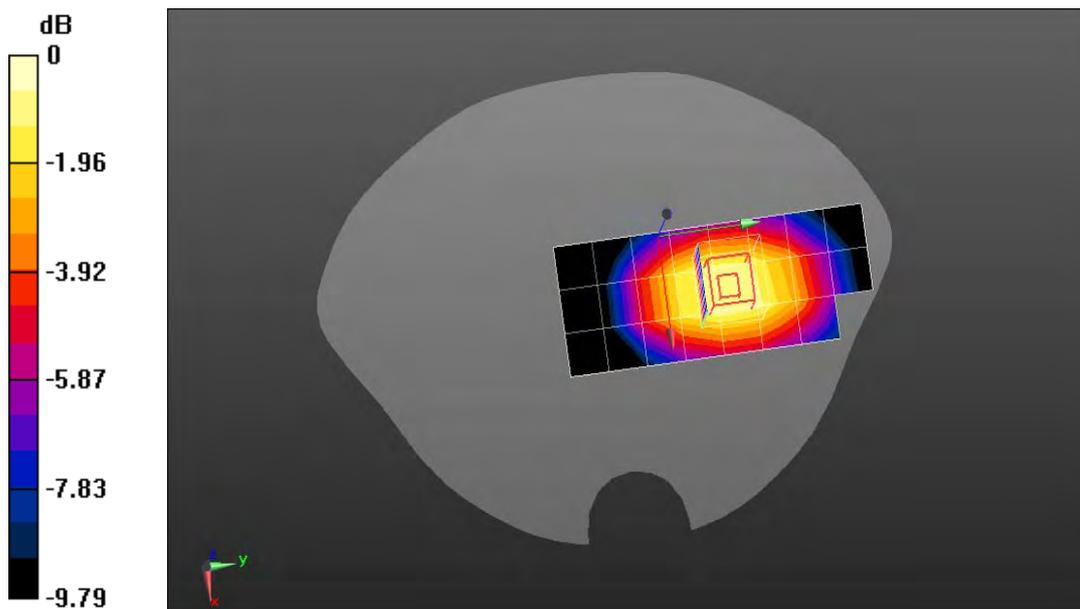
Configuration/GPRS 850 Mid Body-Left side/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.347 mW/g

Configuration/GPRS 850 Mid Body-Left side/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.092 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.566 mW/g

SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.267 mW/g Maximum value of SAR (measured) = 0.417 mW/g



0 dB = 0.417 mW/g = -7.60 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Back(4up)(with battery #2)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

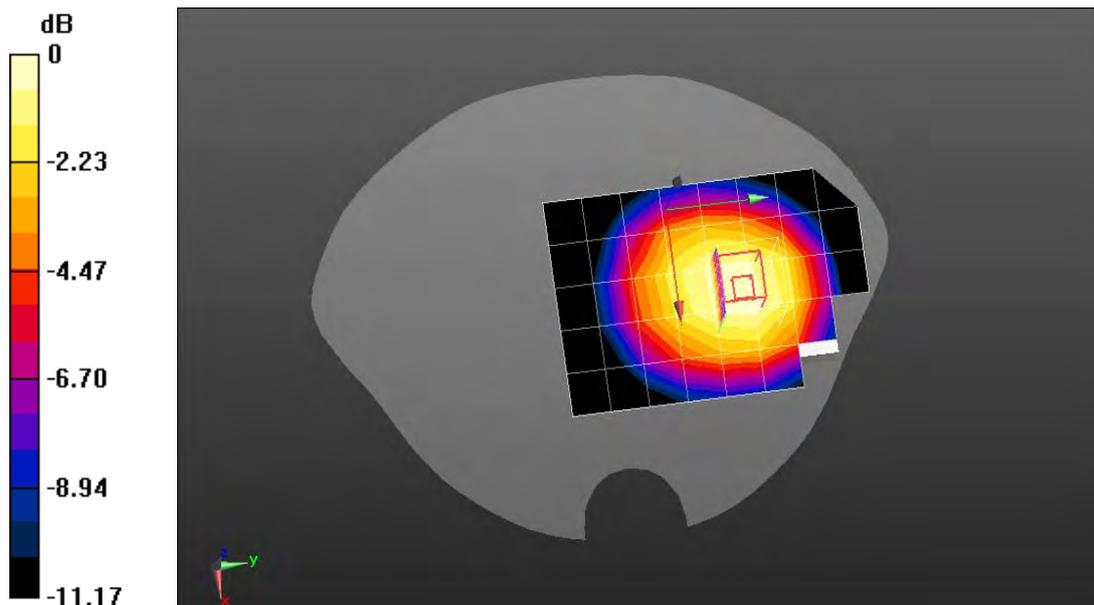
Configuration/GPRS 850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.777 mW/g

Configuration/GPRS 850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.160 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.016 mW/g

SAR(1 g) = 0.779 mW/g; SAR(10 g) = 0.574 mW/g Maximum value of SAR (measured) = 0.822 mW/g



0 dB = 0.822 mW/g = -1.70 dB mW/g

Z-Axis Plot



Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

GPRS 850 Mid Body-Back(4up)(with battery #3)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.96$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

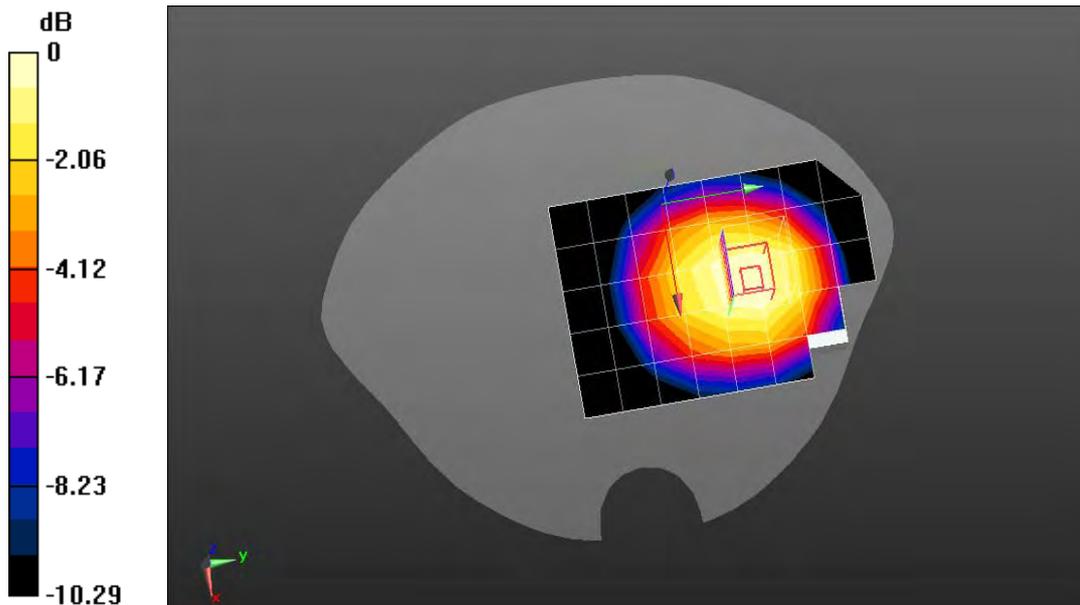
Configuration/GPRS 850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.771 mW/g

Configuration/GPRS 850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.625 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.005 mW/g

SAR(1 g) = 0.772 mW/g; SAR(10 g) = 0.573 mW/g Maximum value of SAR (measured) = 0.804 mW/g



0 dB = 0.804 mW/g = -1.89 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Touch-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

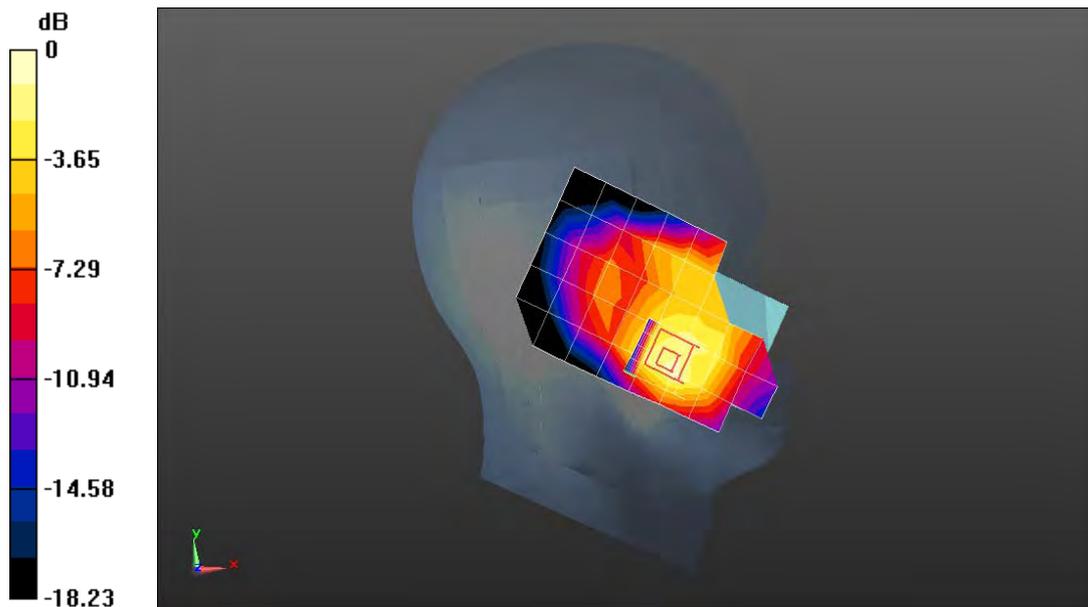
Configuration/PCS1900 Mid Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.204 mW/g

Configuration/PCS1900 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.471 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.368 mW/g

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.125 mW/g Maximum value of SAR (measured) = 0.229 mW/g



0 dB = 0.229 mW/g = -12.80 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Tilt-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

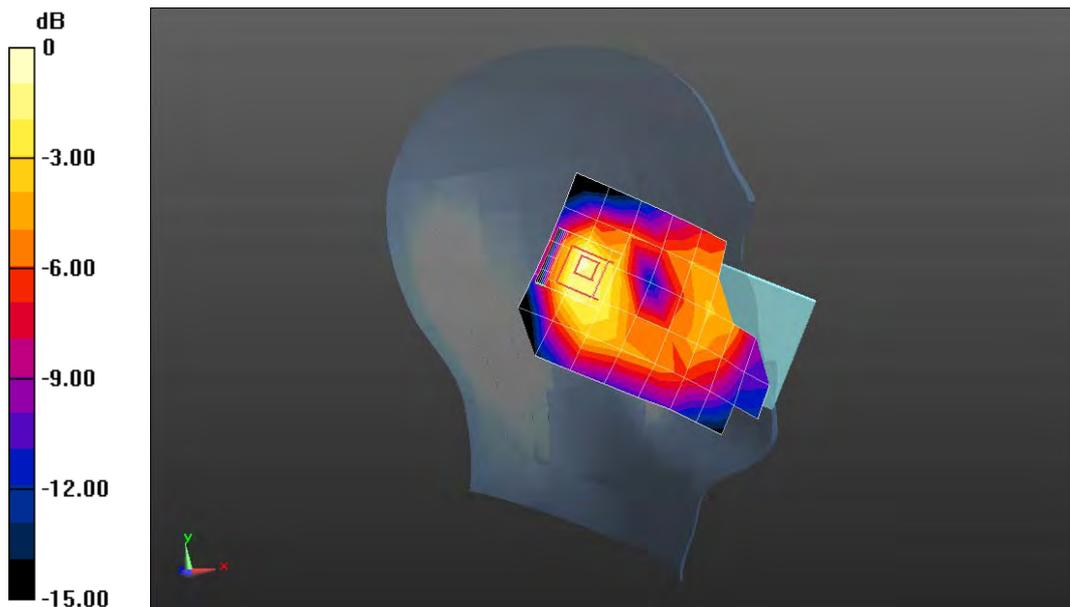
Configuration/PCS1900 Mid Tilt-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0877 mW/g

Configuration/PCS1900 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.224 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.157 mW/g

SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.053 mW/g Maximum value of SAR (measured) = 0.0998 mW/g



0 dB = 0.0998 mW/g = -20.02 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Touch-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/PCS1900 Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

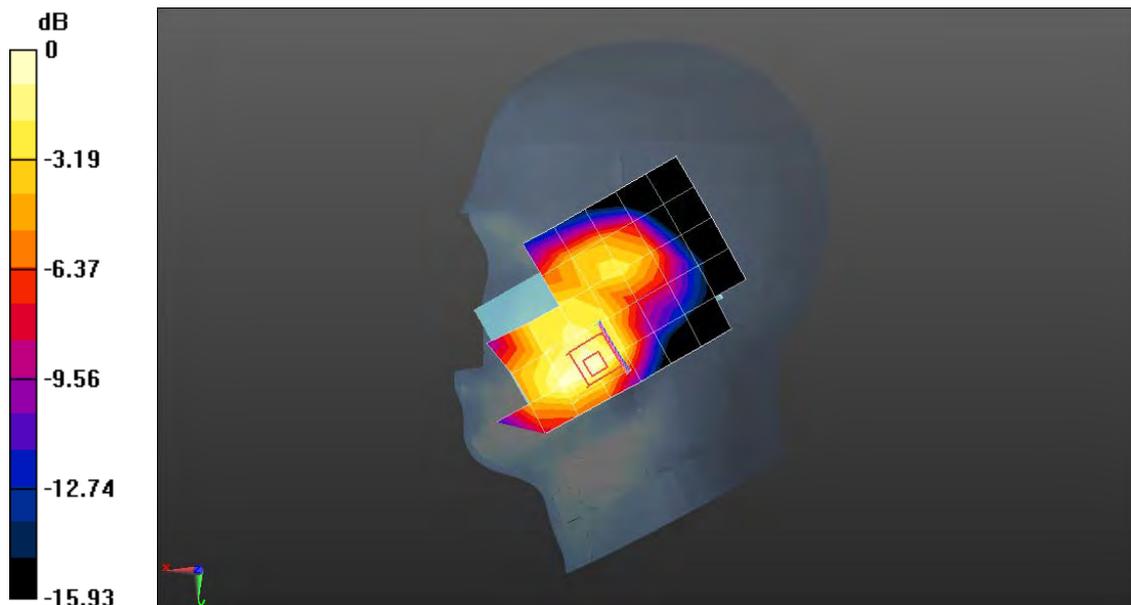
Maximum value of SAR (measured) = 0.248 mW/g

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

dy=8mm, dz=5mm, Reference Value = 3.601 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.380 mW/g

SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.136 mW/g Maximum value of SAR (measured) = 0.244 mW/g



0 dB = 0.244 mW/g = -12.25 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Tilt-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

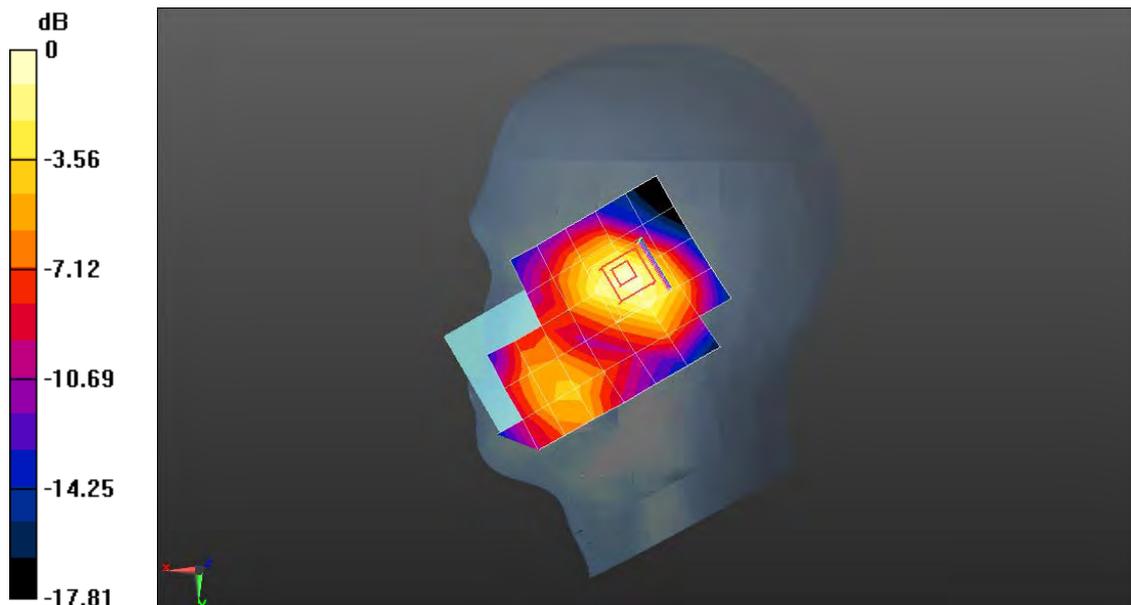
Configuration/PCS1900 Mid Tilt-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.127 mW/g

Configuration/PCS1900 Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.078 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.191 mW/g

SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.070 mW/g Maximum value of SAR (measured) = 0.128 mW/g



0 dB = 0.128 mW/g = -17.86 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Touch-Right <SIM 1>

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$

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 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/PCS1900 Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

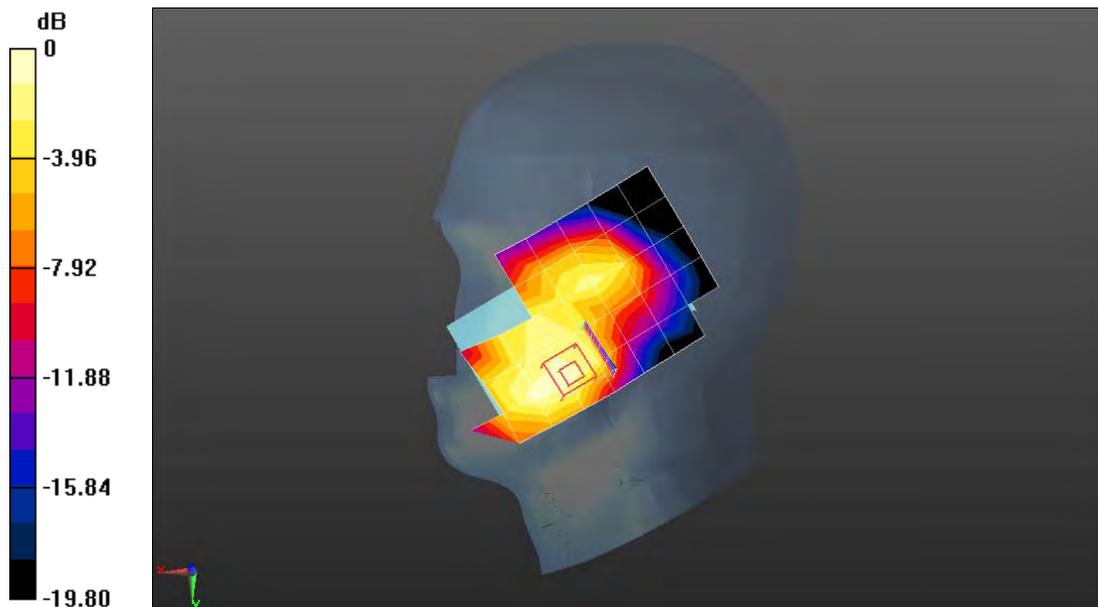
Maximum value of SAR (measured) = 0.236 mW/g

Configuration/PCS1900 Mid Touch-Right/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 3.779 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.355 mW/g

SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.130 mW/g Maximum value of SAR (measured) = 0.232 mW/g



0 dB = 0.232 mW/g = -12.69 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Body-Back

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

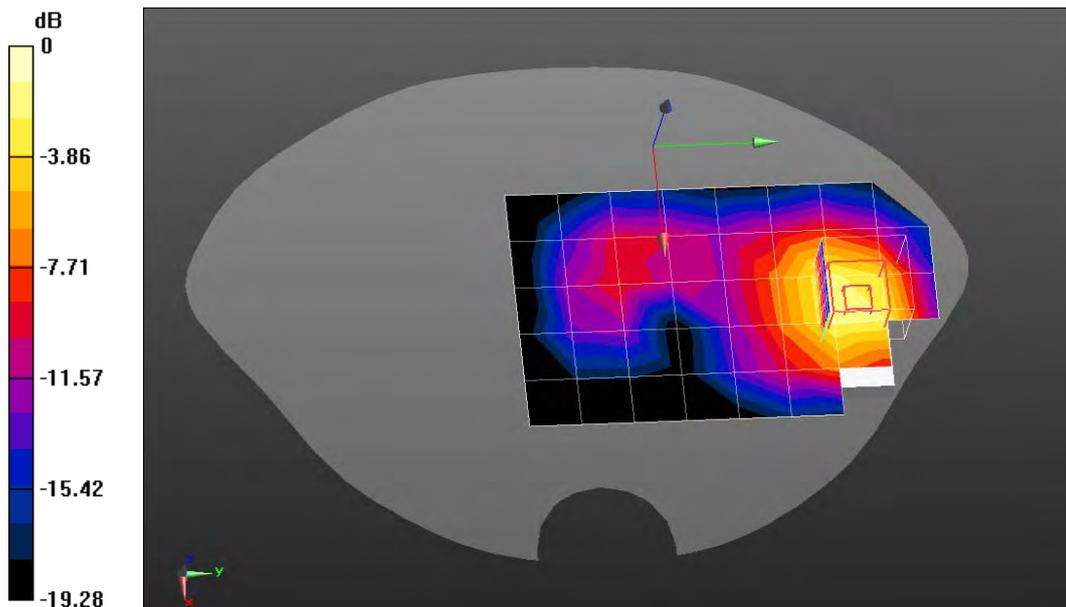
Configuration/PCS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.491 mW/g

Configuration/PCS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.531 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.326 mW/g

SAR(1 g) = 0.719 mW/g; SAR(10 g) = 0.384 mW/g Maximum value of SAR (measured) = 0.792 mW/g



0 dB = 0.792 mW/g = -2.03 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

PCS1900 Mid Body-Back(with headset)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

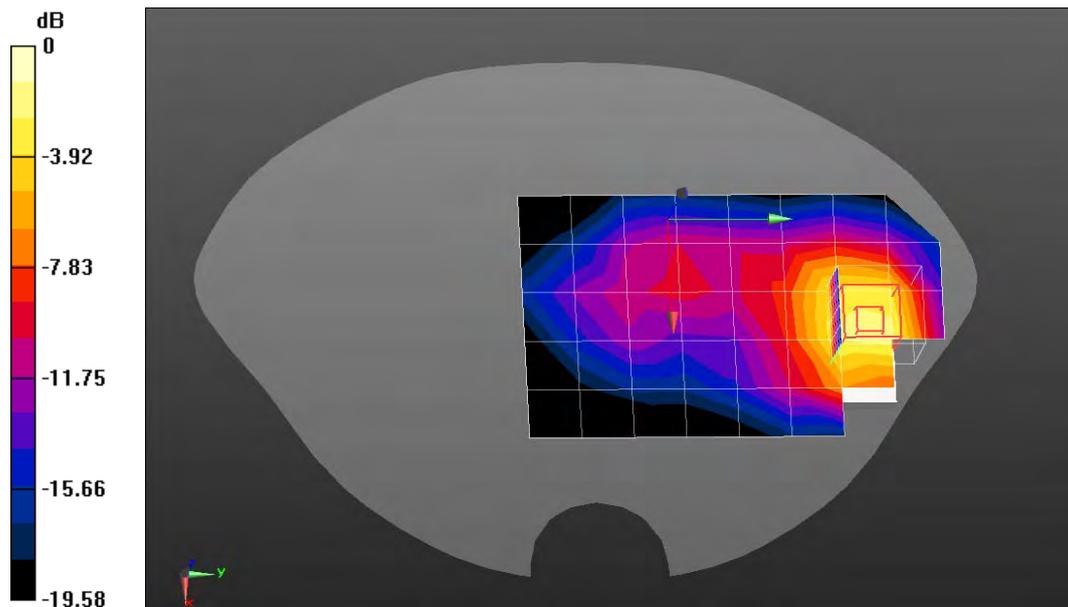
Configuration/PCS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.503 mW/g

Configuration/PCS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 5.244 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.319 mW/g

SAR(1 g) = 0.711 mW/g; SAR(10 g) = 0.374 mW/g Maximum value of SAR (measured) = 0.776 mW/g



0 dB = 0.776 mW/g = -2.20 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 Low Body-Back(2up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1850.2 MHz; Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 53.46$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

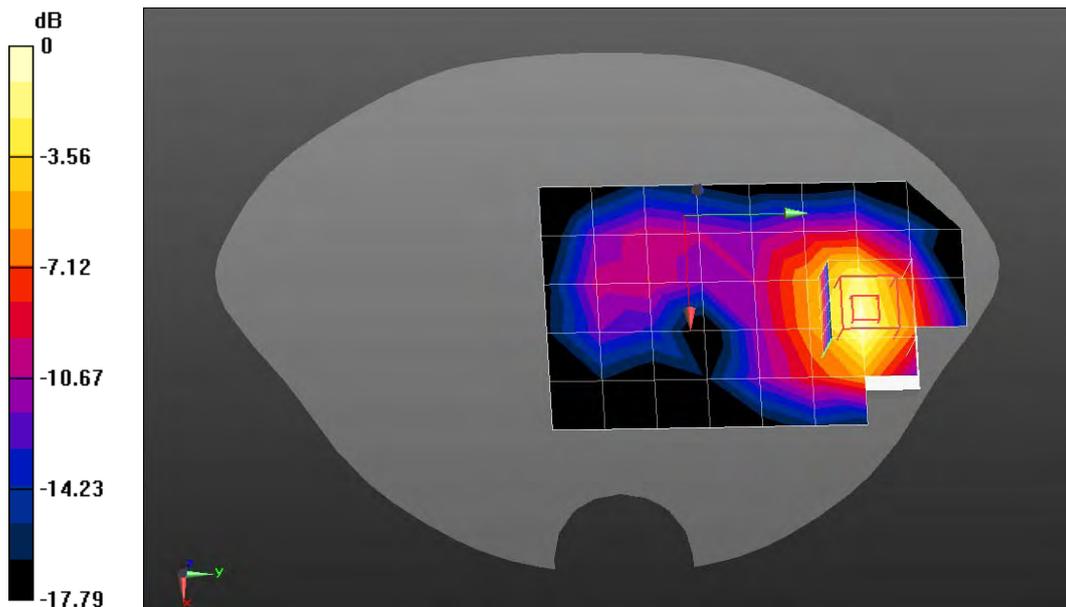
Configuration/GPRS1900 Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.894 mW/g

Configuration/GPRS1900 Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.943 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.626 mW/g

SAR(1 g) = 0.883 mW/g; SAR(10 g) = 0.467 mW/g Maximum value of SAR (measured) = 0.965 mW/g



0 dB = 0.965 mW/g = -0.31 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(2up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

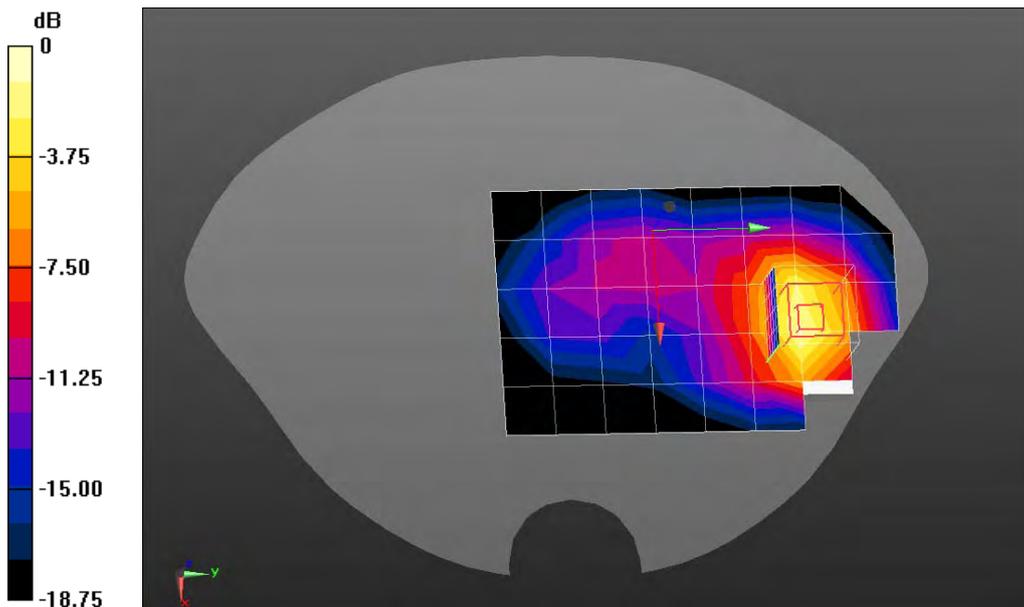
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.815 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.342 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.579 mW/g

SAR(1 g) = 0.881 mW/g; SAR(10 g) = 0.457 mW/g Maximum value of SAR (measured) = 0.979 mW/g



0 dB = 0.979 mW/g = -0.18 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Back(2up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.17$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

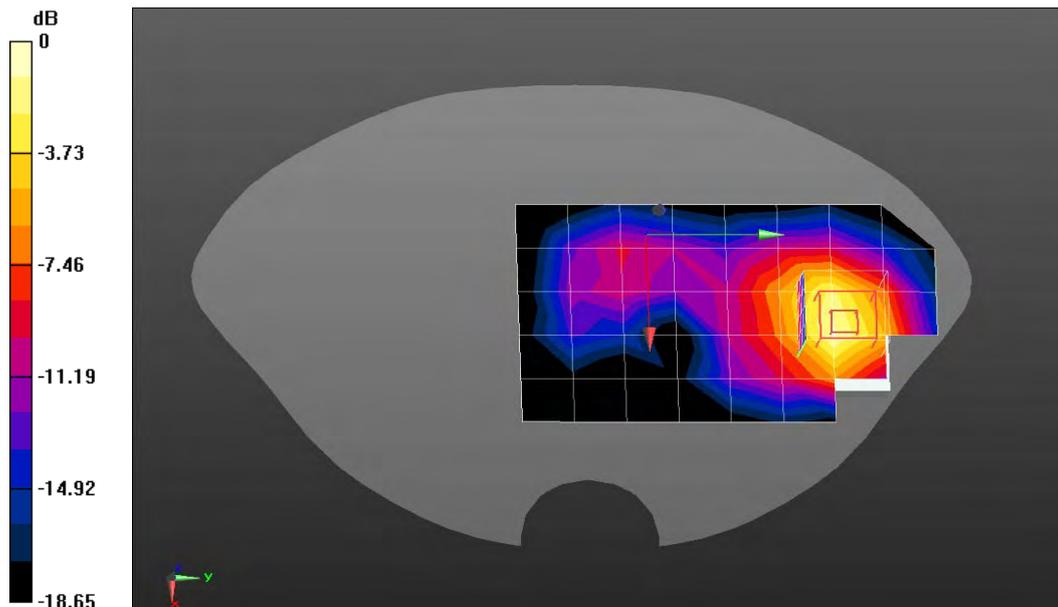
Configuration/GPRS1900 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.809 mW/g

Configuration/GPRS1900 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.713 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.689 mW/g

SAR(1 g) = 0.889 mW/g; SAR(10 g) = 0.460 mW/g Maximum value of SAR (measured) = 0.988 mW/g



0 dB = 0.988 mW/g = -0.10 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(2up) (with headset)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

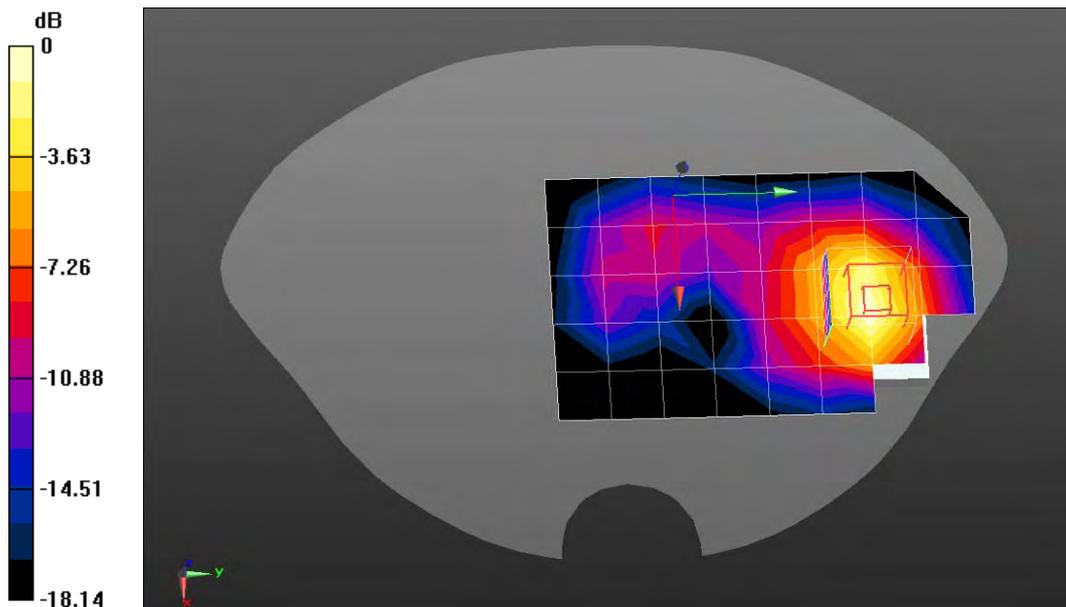
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.903 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.310 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.615 mW/g

SAR(1 g) = 0.866 mW/g; SAR(10 g) = 0.458 mW/g Maximum value of SAR (measured) = 0.907 mW/g



0 dB = 0.907 mW/g = -0.85 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Front(2up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

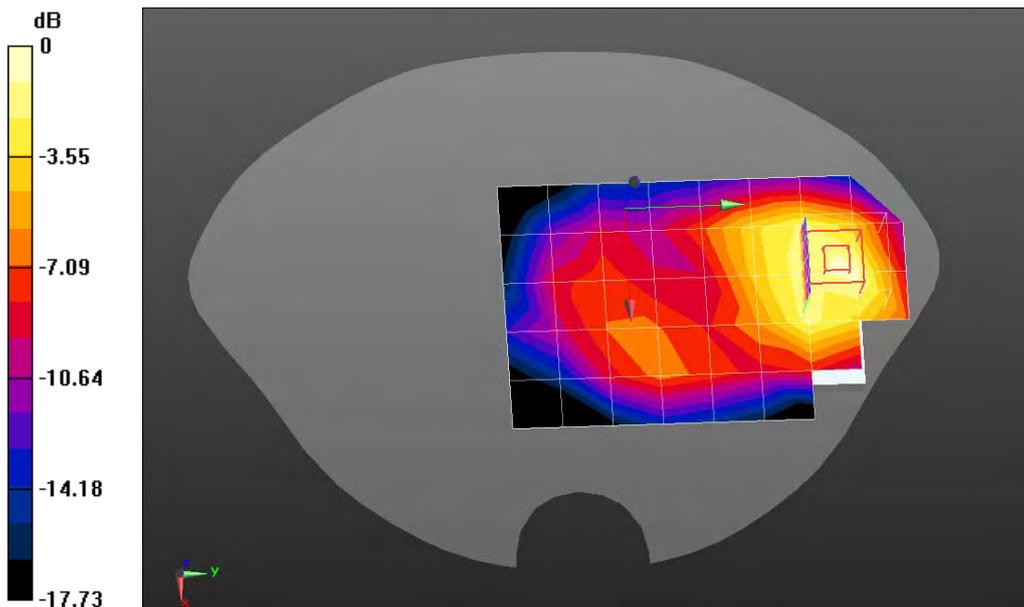
Configuration/GPRS1900 Mid Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.382 mW/g

Configuration/GPRS1900 Mid Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.789 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.709 mW/g

SAR(1 g) = 0.406 mW/g; SAR(10 g) = 0.236 mW/g Maximum value of SAR (measured) = 0.436 mW/g



0 dB = 0.436 mW/g = -7.21 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Bottom(2up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.17$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

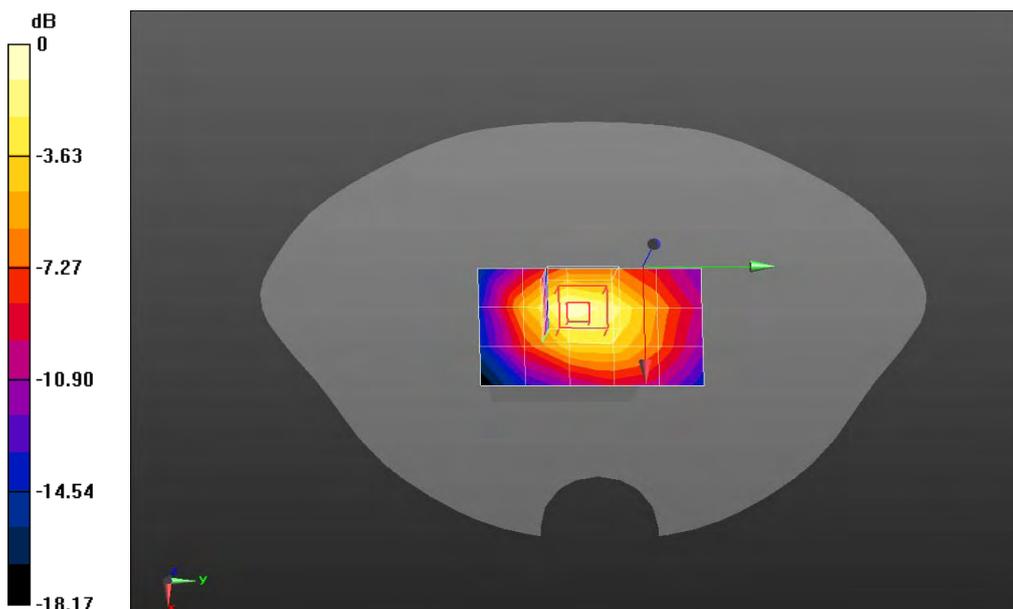
Configuration/GPRS1900 High Body-Bottom/Area Scan (4x6x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.437 mW/g

Configuration/GPRS1900 High Body-Bottom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 16.008 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.746 mW/g

SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.238 mW/g Maximum value of SAR (measured) = 0.465 mW/g



0 dB = 0.465 mW/g = -6.65 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Right side(2up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.17$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

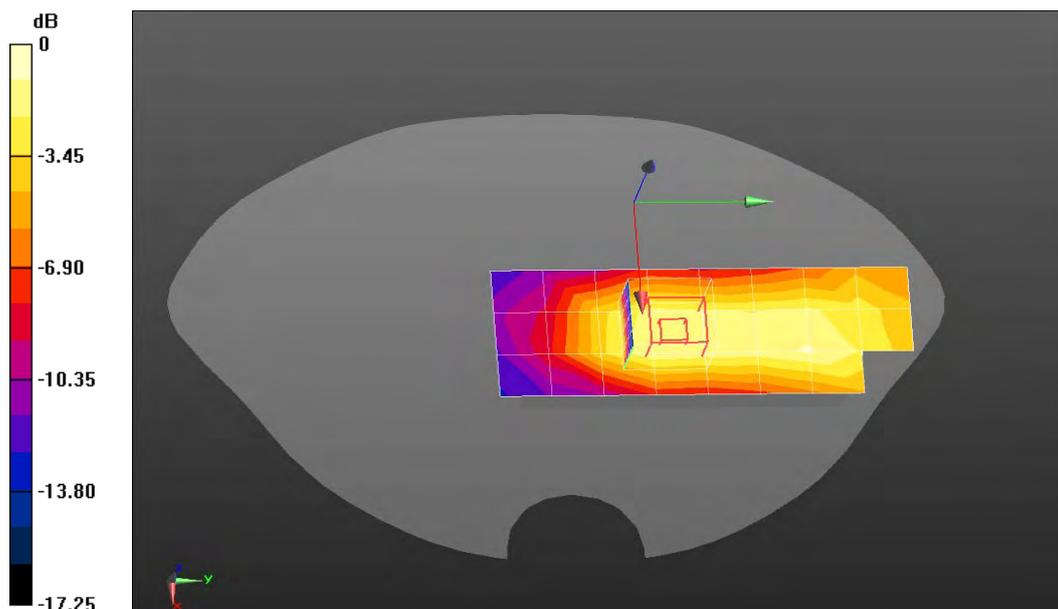
Configuration/GPRS1900 High Body-Right side/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0975 mW/g

Configuration/GPRS1900 High Body-Right side/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.264 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.195 mW/g

SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.065 mW/g Maximum value of SAR (measured) = 0.122 mW/g



0 dB = 0.122 mW/g = -18.27 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Left side(2up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.17$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

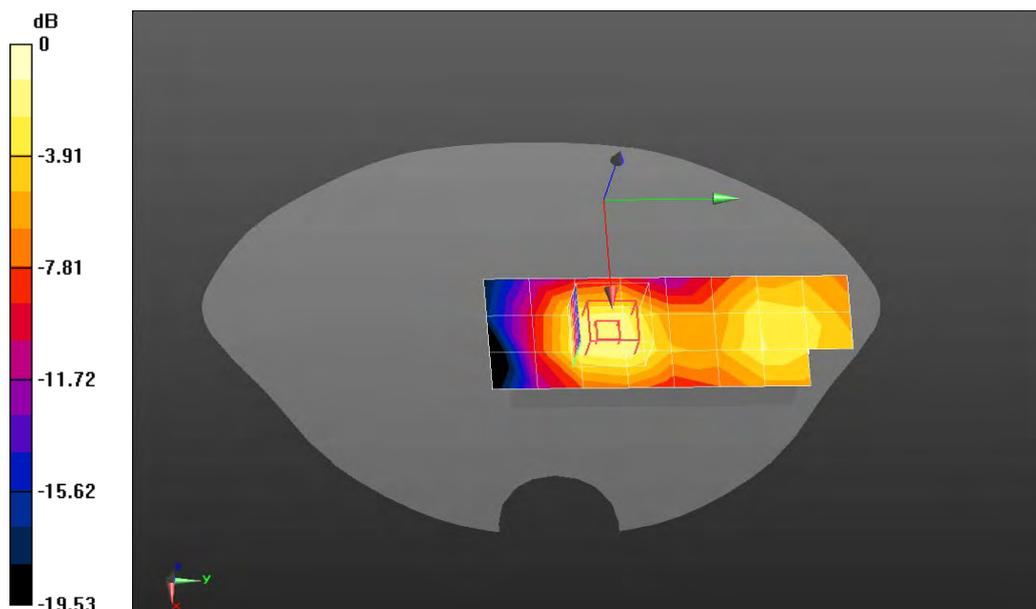
Configuration/GPRS1900 High Body-Left side/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.106 mW/g

Configuration/GPRS1900 High Body-Left side/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.900 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.228 mW/g

SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.075 mW/g Maximum value of SAR (measured) = 0.145 mW/g



0 dB = 0.145 mW/g = -16.77 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Back(2up)(with battery #2)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.17$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

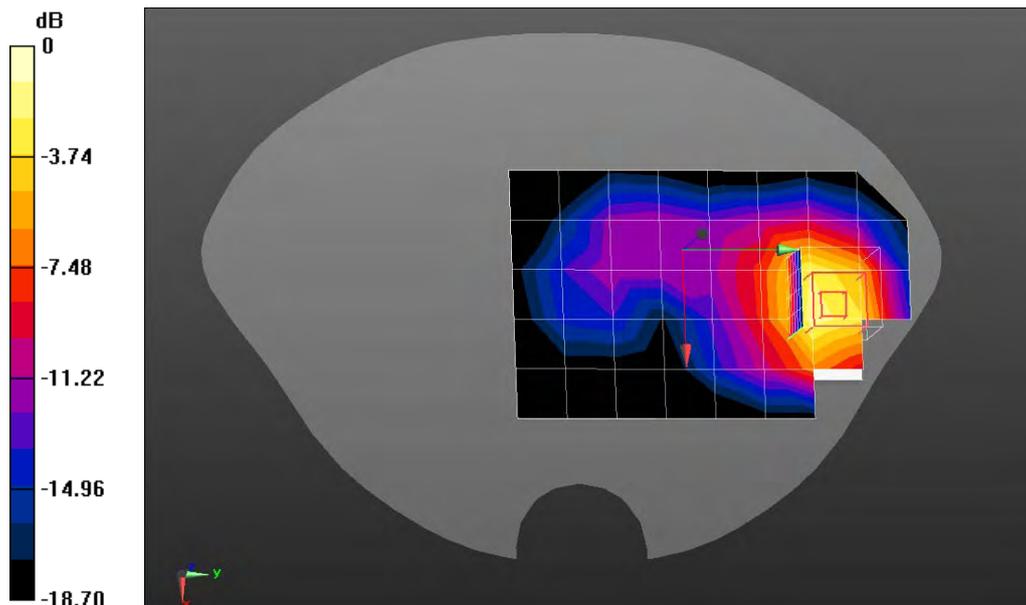
Configuration/GPRS1900 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.731 mW/g

Configuration/GPRS1900 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 5.937 V/m; Power Drift = 0.10 dB

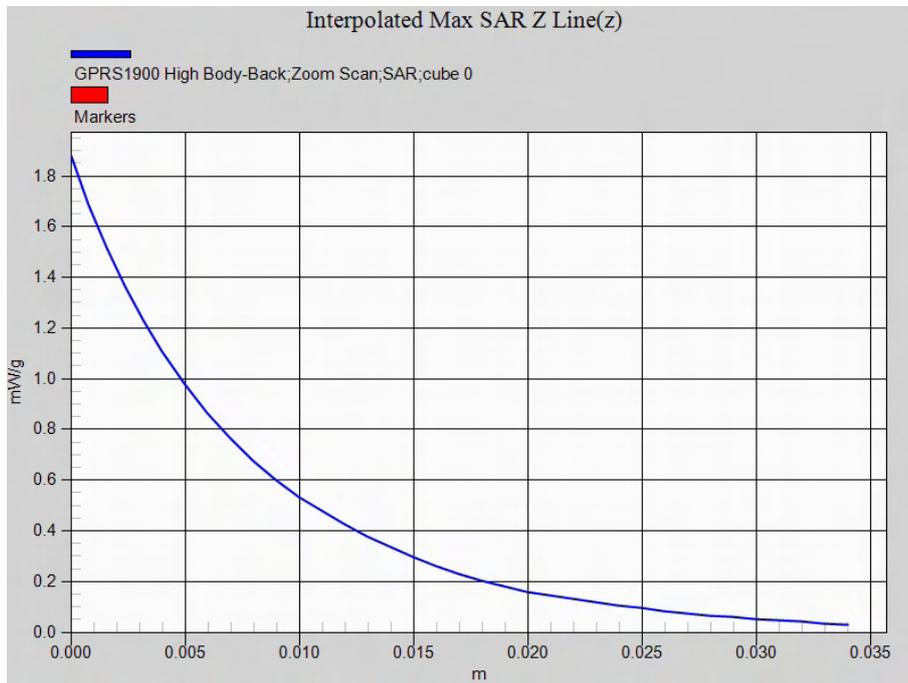
Peak SAR (extrapolated) = 1.881 mW/g

SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.513 mW/g Maximum value of SAR (measured) = 1.07 mW/g



0 dB = 1.07 mW/g = 0.59 dB mW/g

Z-Axis Plot



Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Back(2up)(with battery #3)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.17$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

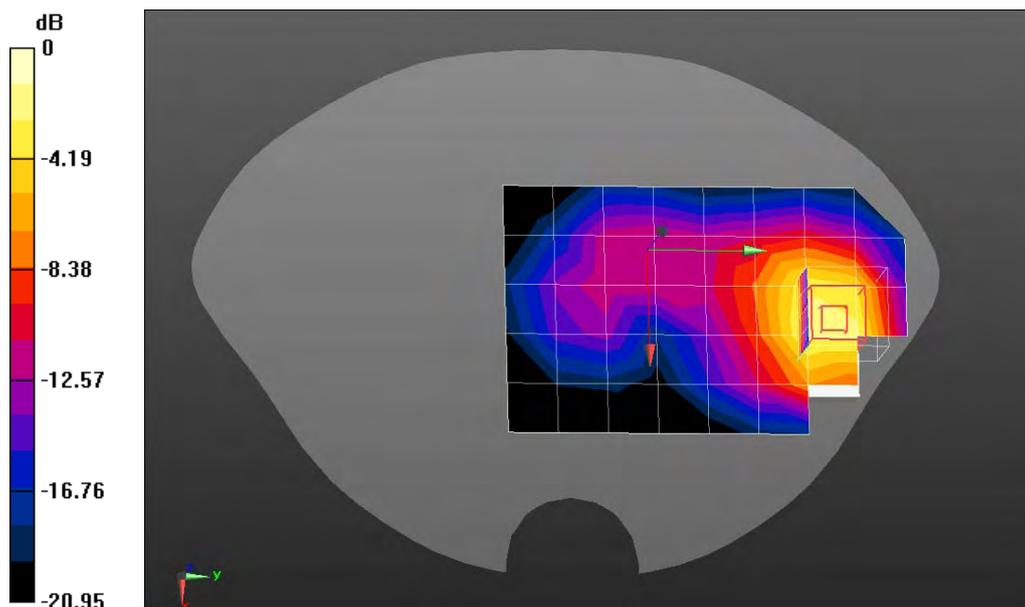
Configuration/GPRS1900 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.650 mW/g

Configuration/GPRS1900 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.111 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.817 mW/g

SAR(1 g) = 0.980 mW/g; SAR(10 g) = 0.504 mW/g Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.08 mW/g = 0.67 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(3up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

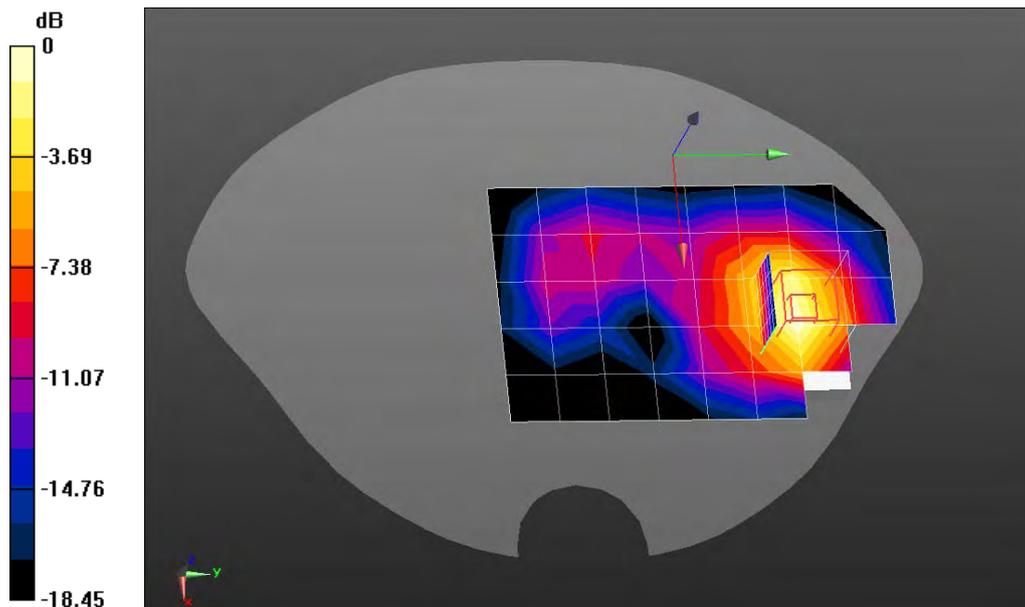
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.806 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.011 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.463 mW/g

SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.422 mW/g Maximum value of SAR (measured) = 0.850 mW/g



0 dB = 0.850 mW/g = -1.41 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 Low Body-Back(4up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1850.2 MHz; Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 53.46$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

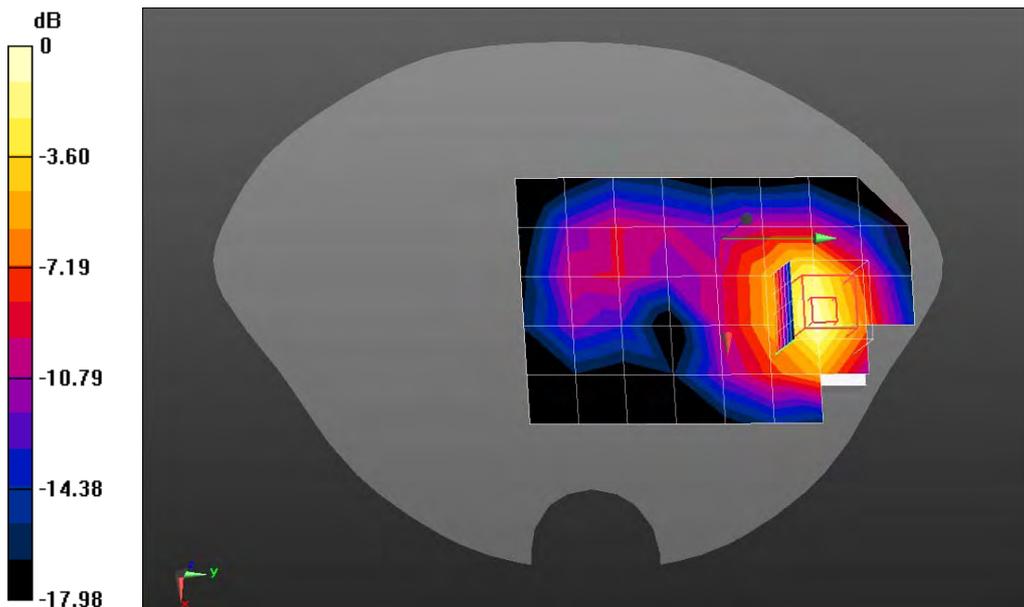
Configuration/GPRS1900 Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.828 mW/g

Configuration/GPRS1900 Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.820 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.637 mW/g

SAR(1 g) = 0.844 mW/g; SAR(10 g) = 0.447 mW/g Maximum value of SAR (measured) = 0.882 mW/g



0 dB = 0.882 mW/g = -1.09 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(4up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

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; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

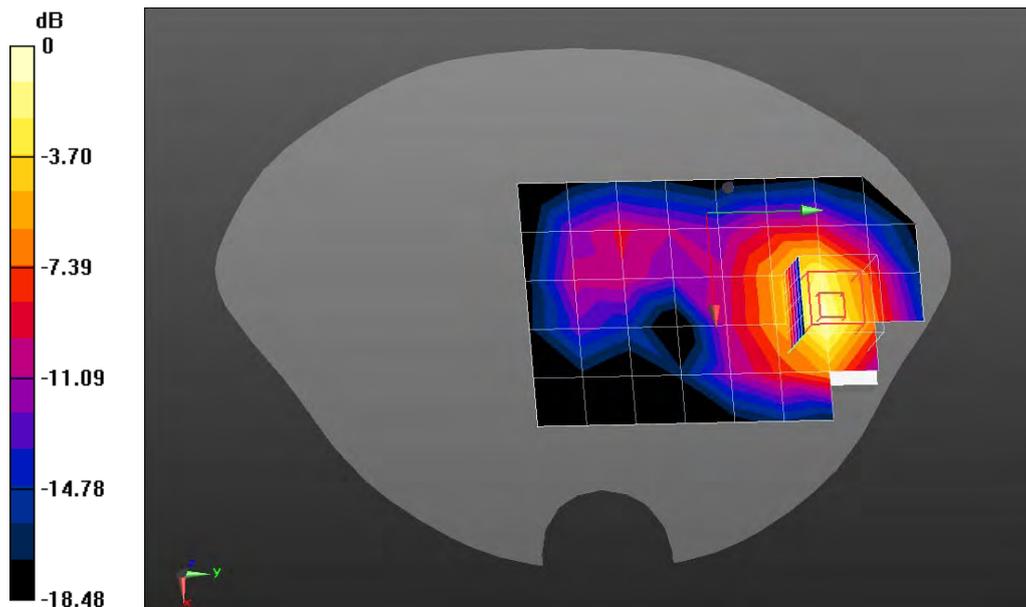
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.830 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.230 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.772 mW/g

SAR(1 g) = 0.860 mW/g; SAR(10 g) = 0.448 mW/g Maximum value of SAR (measured) = 0.926 mW/g



0 dB = 0.926 mW/g = -0.67 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Back(4up)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 53.17$; $\rho = 1000 \text{ kg/m}^3$; 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/GPRS1900 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

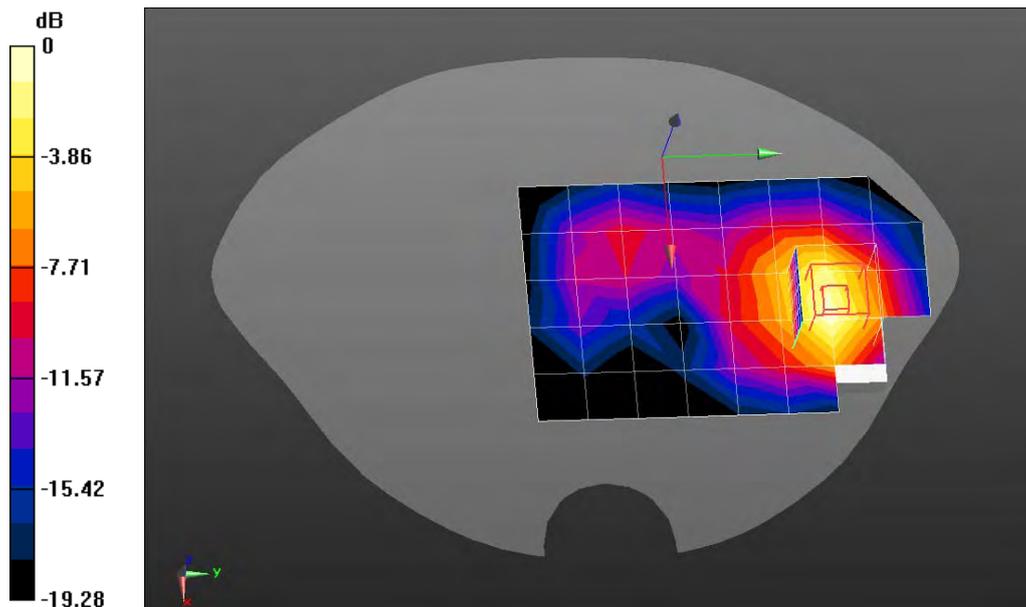
Maximum value of SAR (measured) = 0.843 mW/g

Configuration/GPRS1900 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 6.641 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.555 mW/g

SAR(1 g) = 0.830 mW/g; SAR(10 g) = 0.436 mW/g Maximum value of SAR (measured) = 0.902 mW/g



0 dB = 0.902 mW/g = -0.90 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Touch-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band II Mid Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

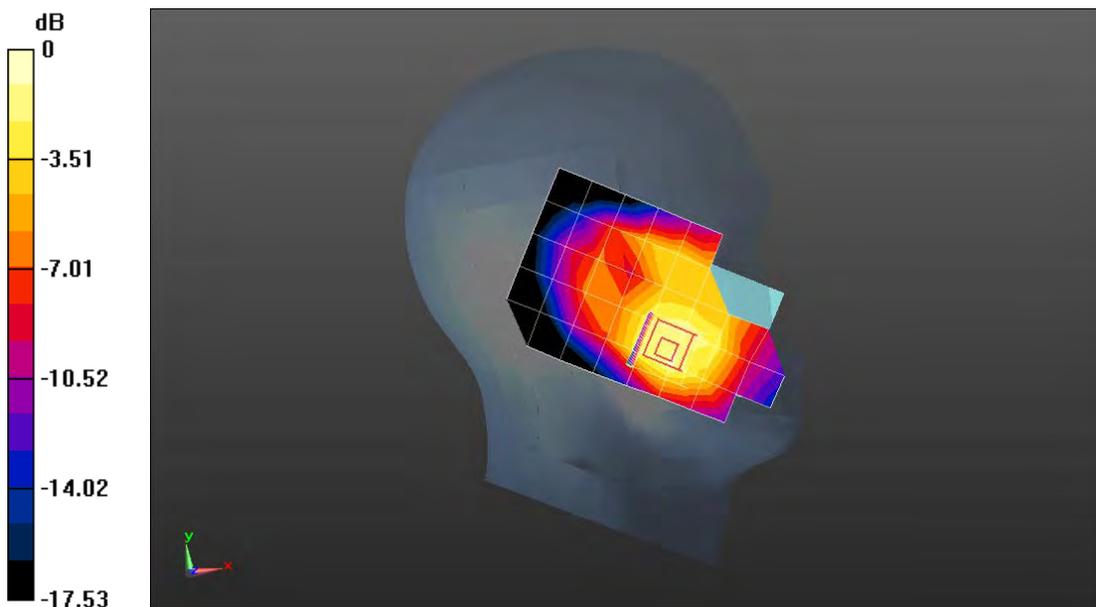
Maximum value of SAR (measured) = 0.325 mW/g

Configuration/WCDMA Band II Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 5.734 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.632 mW/g

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.228 mW/g Maximum value of SAR (measured) = 0.407 mW/g



0 dB = 0.407 mW/g = -7.81 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Tilt-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

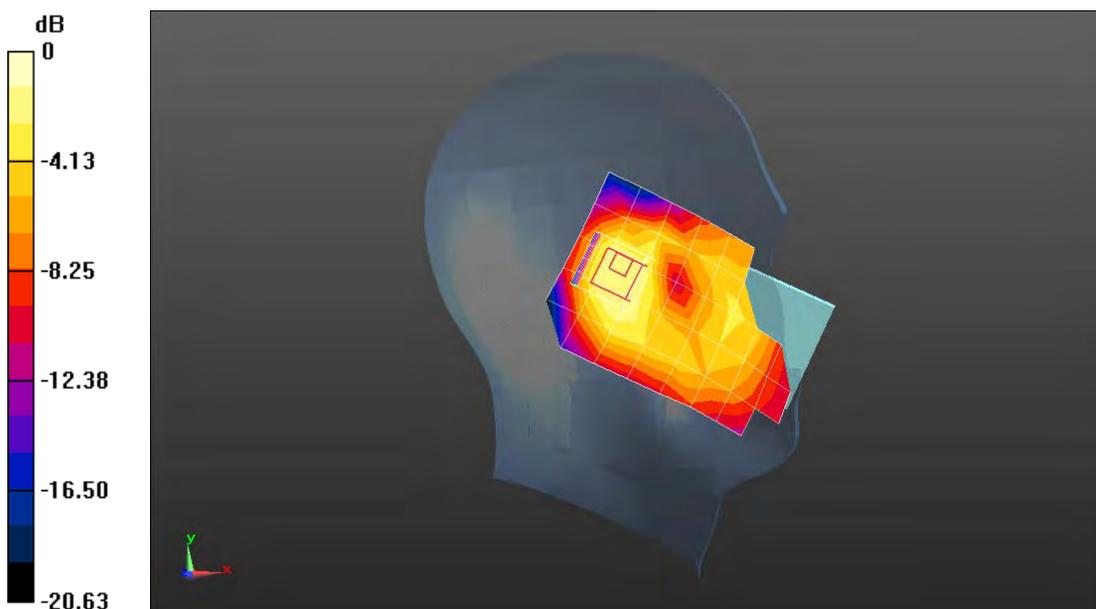
Configuration/WCDMA Band II Mid Tilt-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.115 mW/g

Configuration/WCDMA Band II Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.266 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.240 mW/g

SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.083 mW/g Maximum value of SAR (measured) = 0.157 mW/g



0 dB = 0.157 mW/g = -16.08 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Touch-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

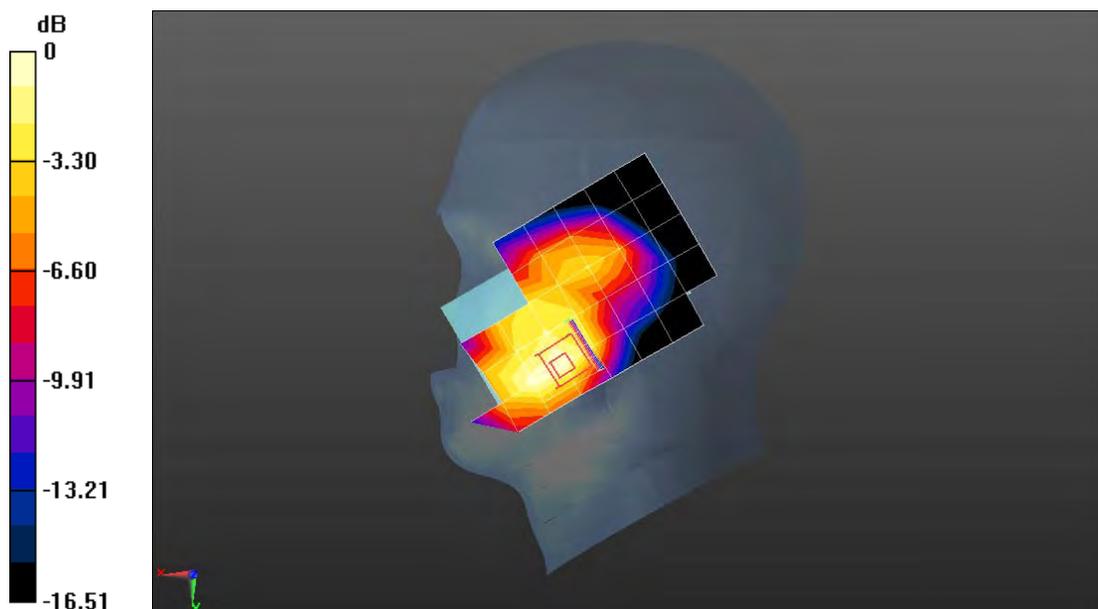
Configuration/WCDMA Band II Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.532 mW/g

Configuration/WCDMA Band II Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.992 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.843 mW/g

SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.287 mW/g Maximum value of SAR (measured) = 0.520 mW/g



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

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Tilt-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.92$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

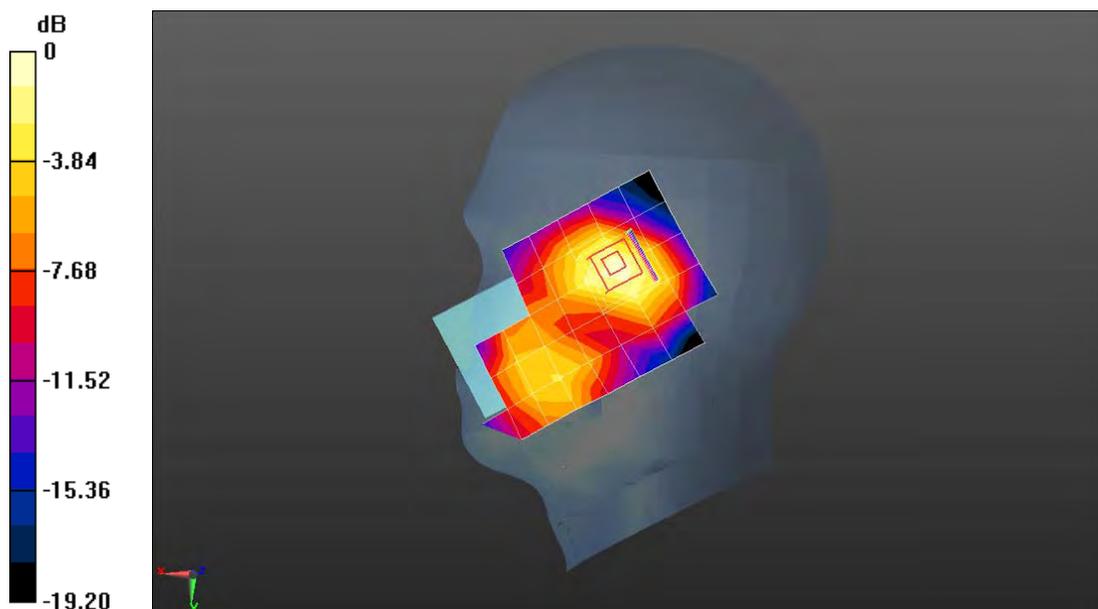
Configuration/WCDMA Band II Mid Tilt-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.262 mW/g

Configuration/WCDMA Band II Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.424 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.401 mW/g

SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.144 mW/g Maximum value of SAR (measured) = 0.264 mW/g



0 dB = 0.264 mW/g = -11.57 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Low Body-Back

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1852.4 MHz; Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 53.43$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band II Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

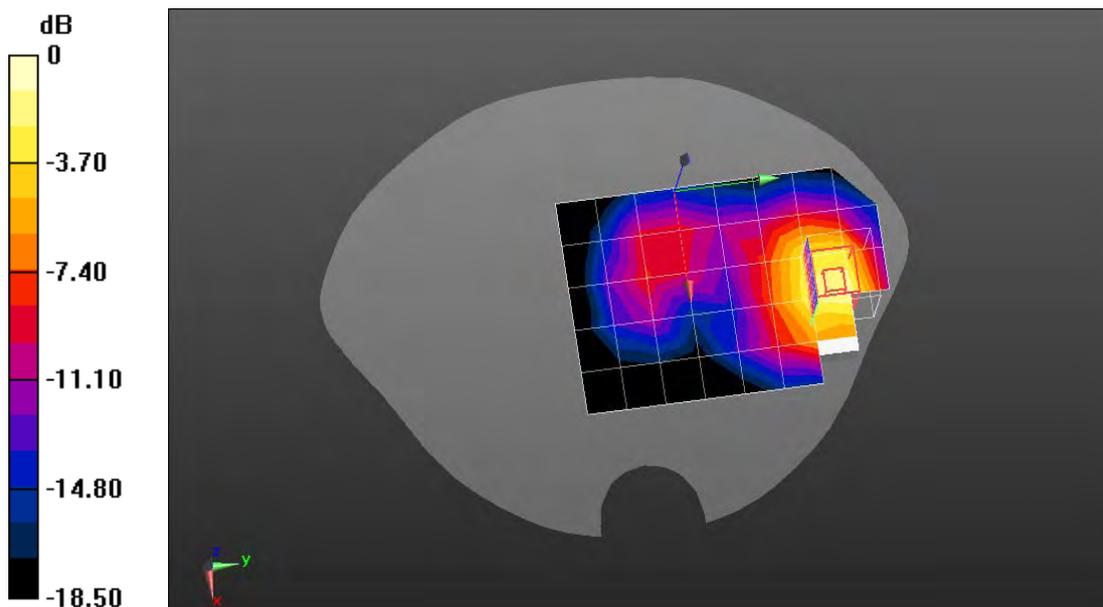
Maximum value of SAR (measured) = 0.984 mW/g

Configuration/WCDMA Band II Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.230 V/m; Power Drift = 0.09 dB

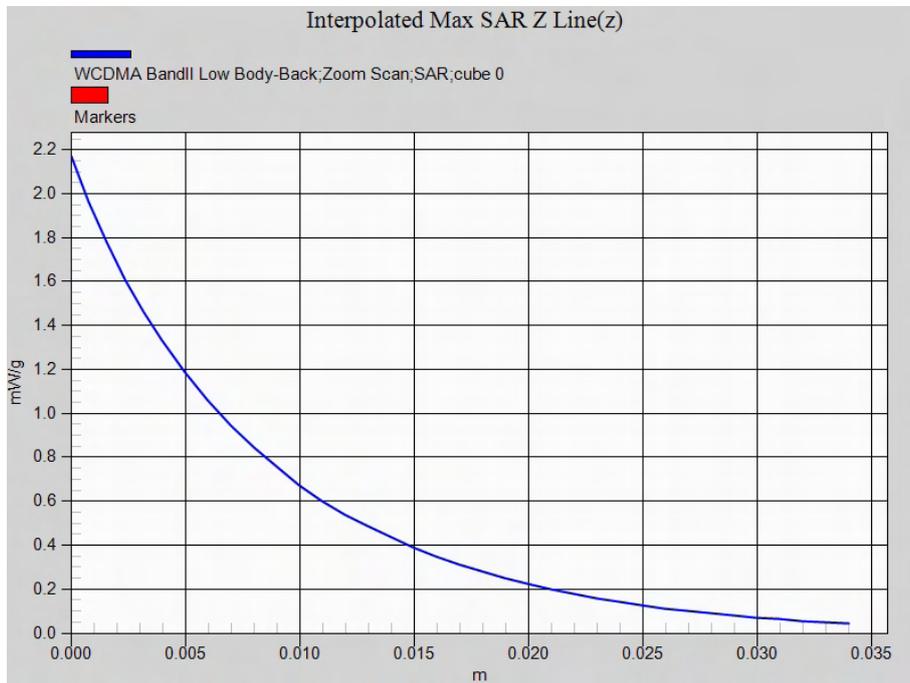
Peak SAR (extrapolated) = 2.172 mW/g

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.647 mW/g Maximum value of SAR (measured) = 1.30 mW/g



0 dB = 1.30 mW/g = 2.28 dB mW/g

Z-Axis Plot



Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Back

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band II Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

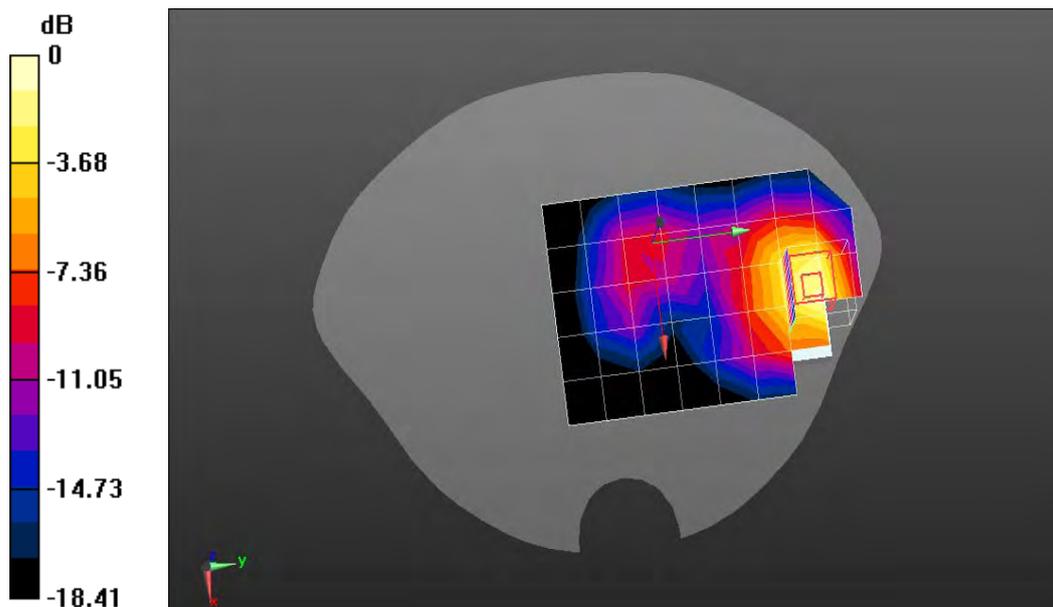
Maximum value of SAR (measured) = 1.11 mW/g

Configuration/WCDMA Band II Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.375 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.224 mW/g

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.639 mW/g Maximum value of SAR (measured) = 1.30 mW/g



0 dB = 1.30 mW/g = 2.28 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II High Body-Back

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1907.6 MHz; Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

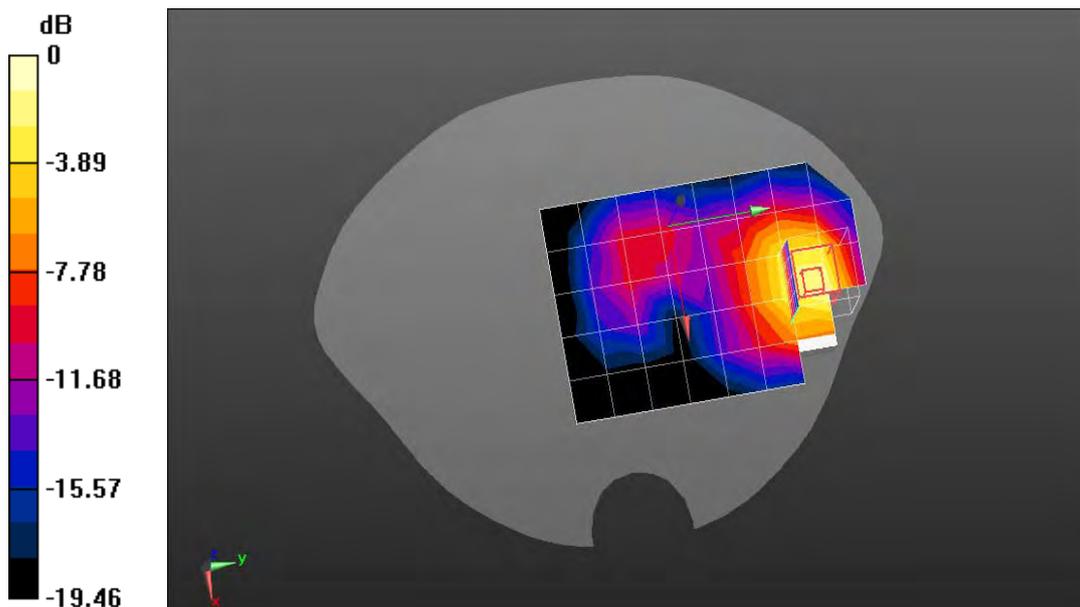
Configuration/WCDMA Band II High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.967 mW/g

Configuration/WCDMA Band II High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.913 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.175 mW/g

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.608 mW/g Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27 mW/g = 2.08 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Back(with headset)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band II Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

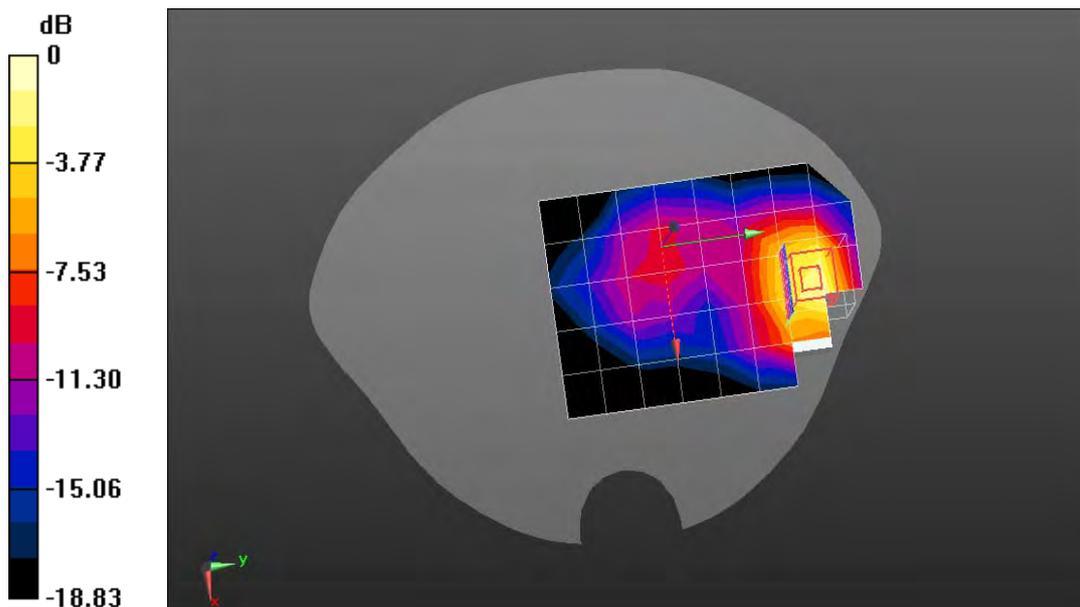
Maximum value of SAR (measured) = 1.01 mW/g

Configuration/WCDMA Band II Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.472 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.227 mW/g

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.624 mW/g Maximum value of SAR (measured) = 1.30 mW/g



0 dB = 1.30 mW/g = 2.28 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Bottom

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band II Mid Body-bottom/Area Scan (4x6x1): Measurement grid: dx=20mm, dy=20mm

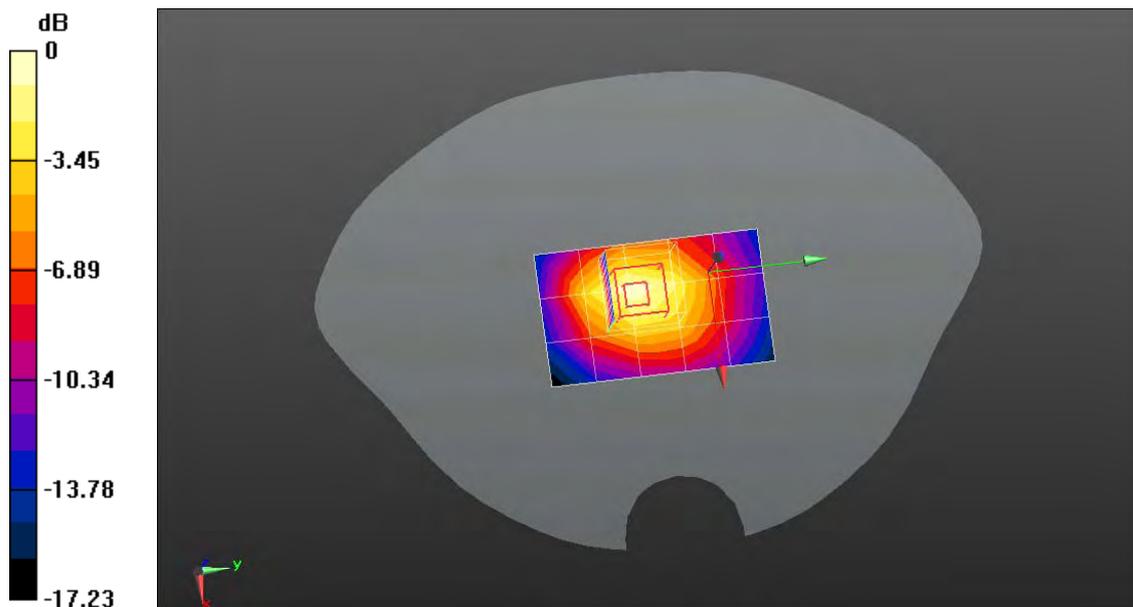
Maximum value of SAR (measured) = 0.686 mW/g

Configuration/WCDMA Band II Mid Body-bottom/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 19.740 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.120 mW/g

SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.361 mW/g Maximum value of SAR (measured) = 0.699 mW/g



0 dB = 0.699 mW/g = -3.11 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Right side

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

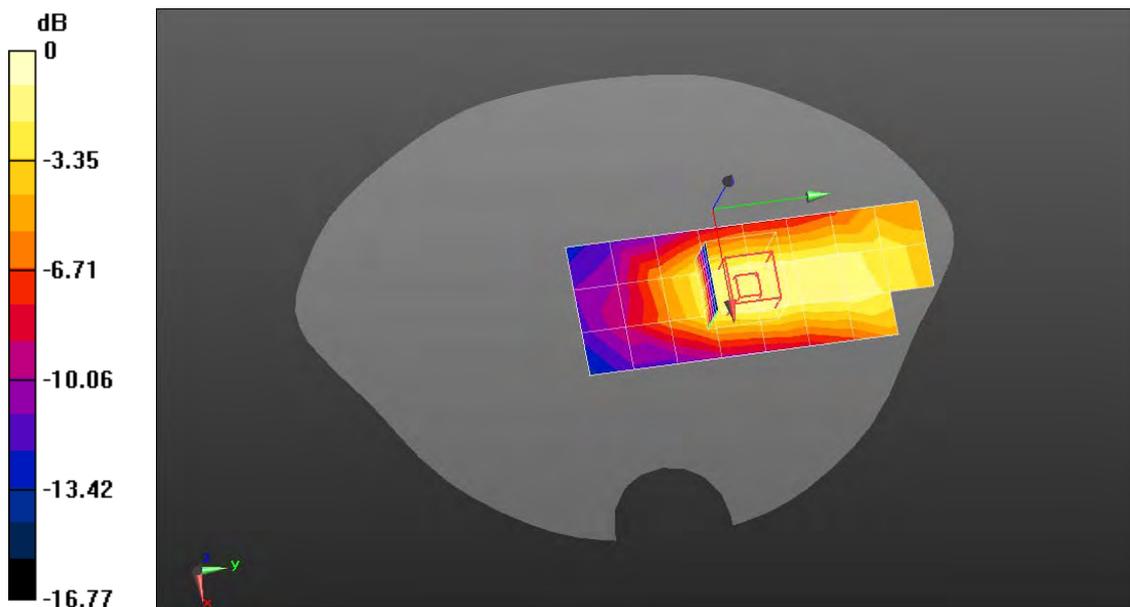
Configuration/WCDMA Band II Mid Body-rightside/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.132 mW/g

Configuration/WCDMA Band II Mid Body-rightside/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.444 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.286 mW/g

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.100 mW/g Maximum value of SAR (measured) = 0.188 mW/g



0 dB = 0.188 mW/g = -14.52 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-left side

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band II Mid Body-leftside/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

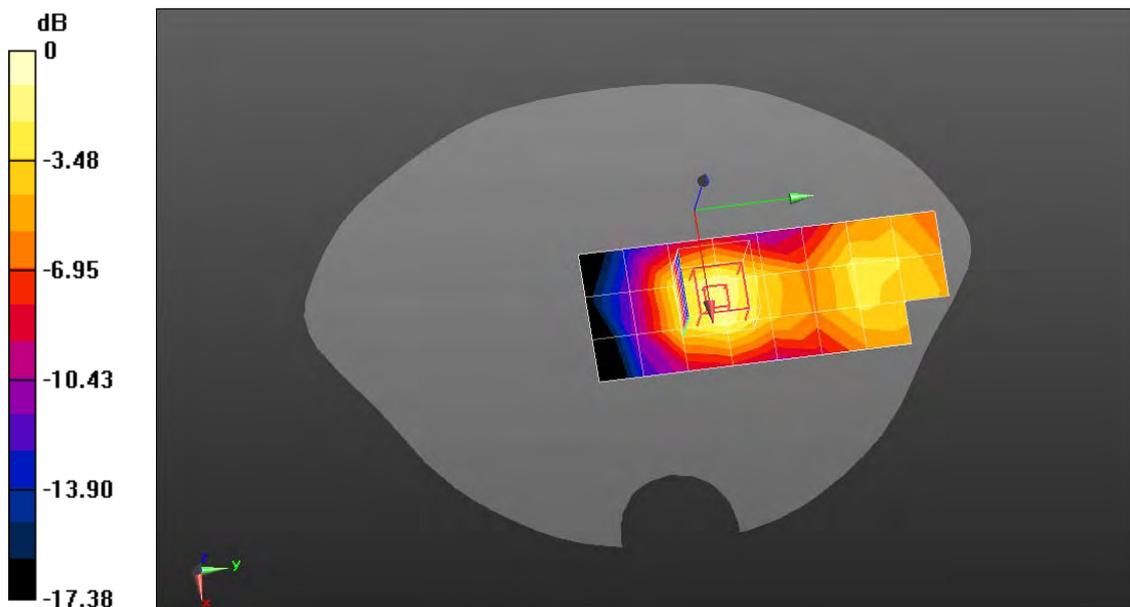
Maximum value of SAR (measured) = 0.160 mW/g

Configuration/WCDMA Band II Mid Body-leftside/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.710 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.323 mW/g

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.109 mW/g Maximum value of SAR (measured) = 0.209 mW/g



0 dB = 0.209 mW/g = -13.60 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Back(with battery #2)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band II Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

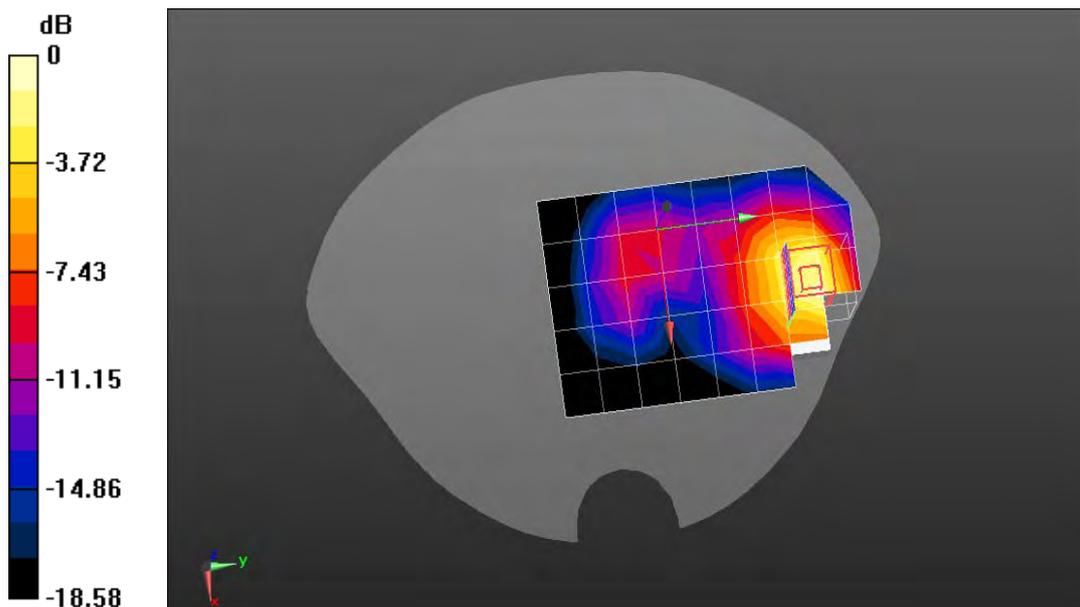
Maximum value of SAR (measured) = 1.08 mW/g

Configuration/WCDMA Band II Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.168 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.163 mW/g

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.628 mW/g Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27 mW/g = 2.08 dB mW/g

Date/Time: 17-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Back(with battery #3)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.32$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band II Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

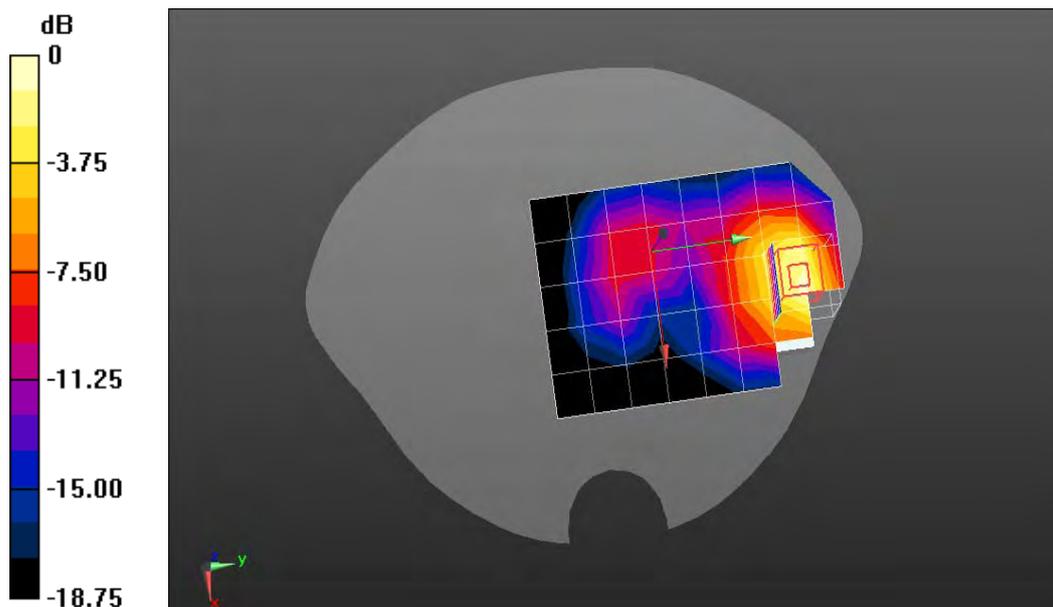
Maximum value of SAR (measured) = 1.14 mW/g

Configuration/WCDMA Band II Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.986 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.191 mW/g

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.632 mW/g Maximum value of SAR (measured) = 1.28 mW/g



0 dB = 1.28 mW/g = 2.14 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Touch-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.23$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band V Mid Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

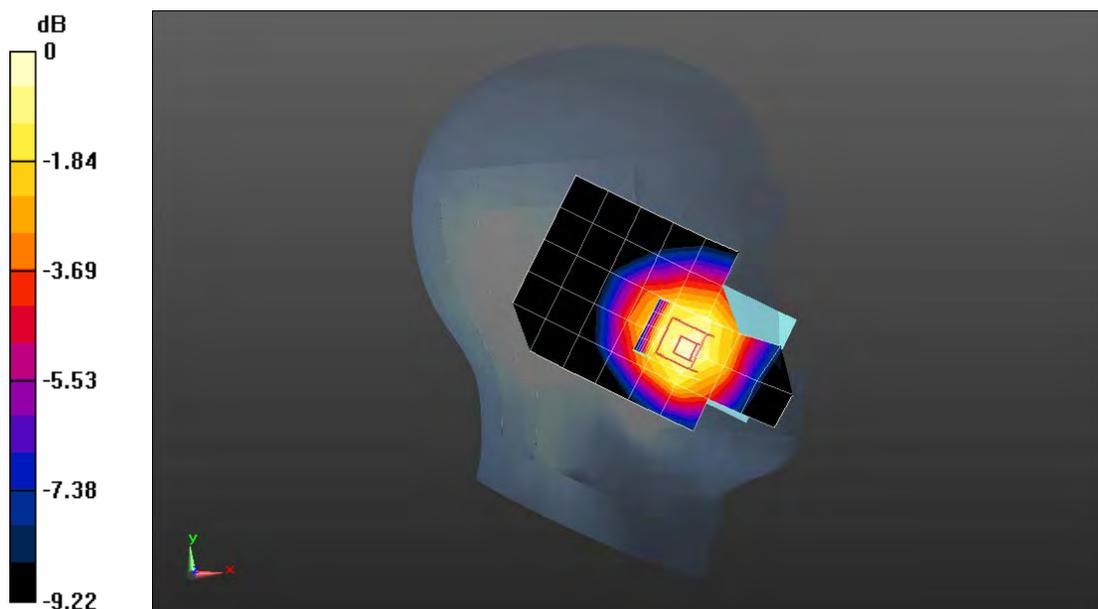
Maximum value of SAR (measured) = 0.189 mW/g

Configuration/WCDMA Band V Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 3.383 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.221 mW/g

SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.139 mW/g Maximum value of SAR (measured) = 0.189 mW/g



0 dB = 0.189 mW/g = -14.47 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Tilt-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.23$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

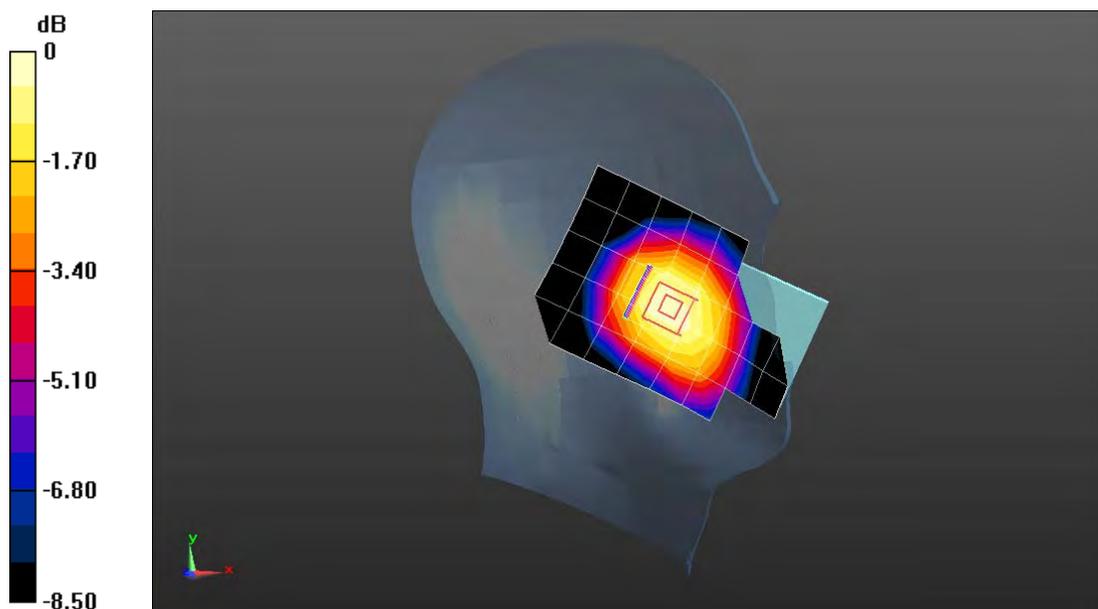
Configuration/WCDMA Band V Mid Tilt-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.114 mW/g

Configuration/WCDMA Band V Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.815 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.140 mW/g

SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.090 mW/g Maximum value of SAR (measured) = 0.120 mW/g



0 dB = 0.120 mW/g = -18.42 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Touch-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.23$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

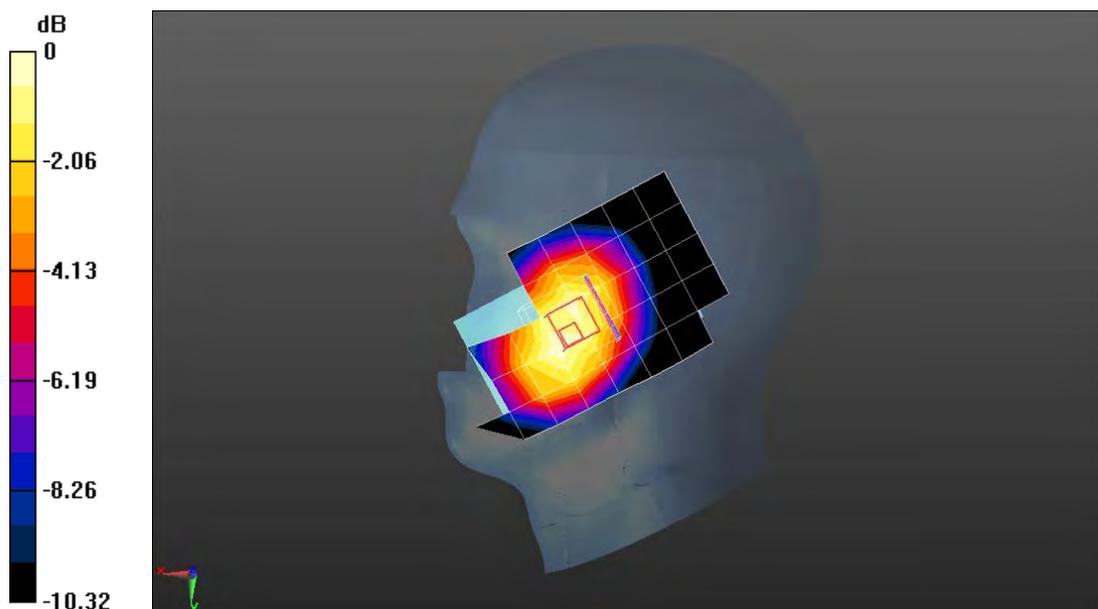
Configuration/WCDMA Band V Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.201 mW/g

Configuration/WCDMA Band V Mid Touch-Right/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 3.833 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.257 mW/g

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.145 mW/g Maximum value of SAR (measured) = 0.202 mW/g



0 dB = 0.202 mW/g = -13.89 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Tilt-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.23$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

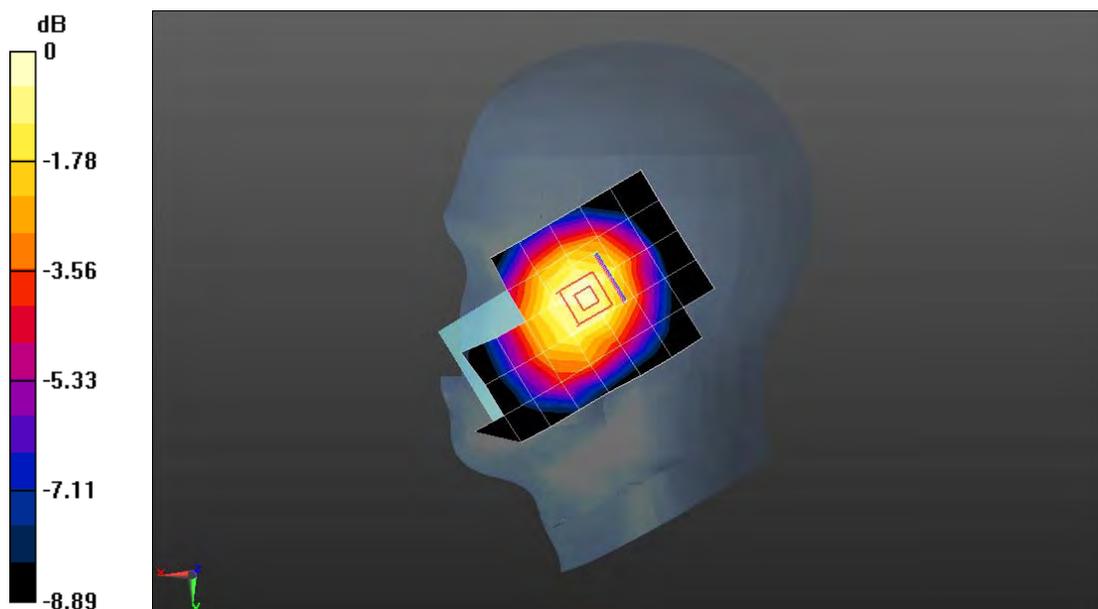
Configuration/WCDMA Band V Mid Tilt-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.147 mW/g

Configuration/WCDMA Band V Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 7.914 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.173 mW/g

SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.108 mW/g Maximum value of SAR (measured) = 0.148 mW/g



0 dB = 0.148 mW/g = -16.59 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Body-Back

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.97$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band V Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

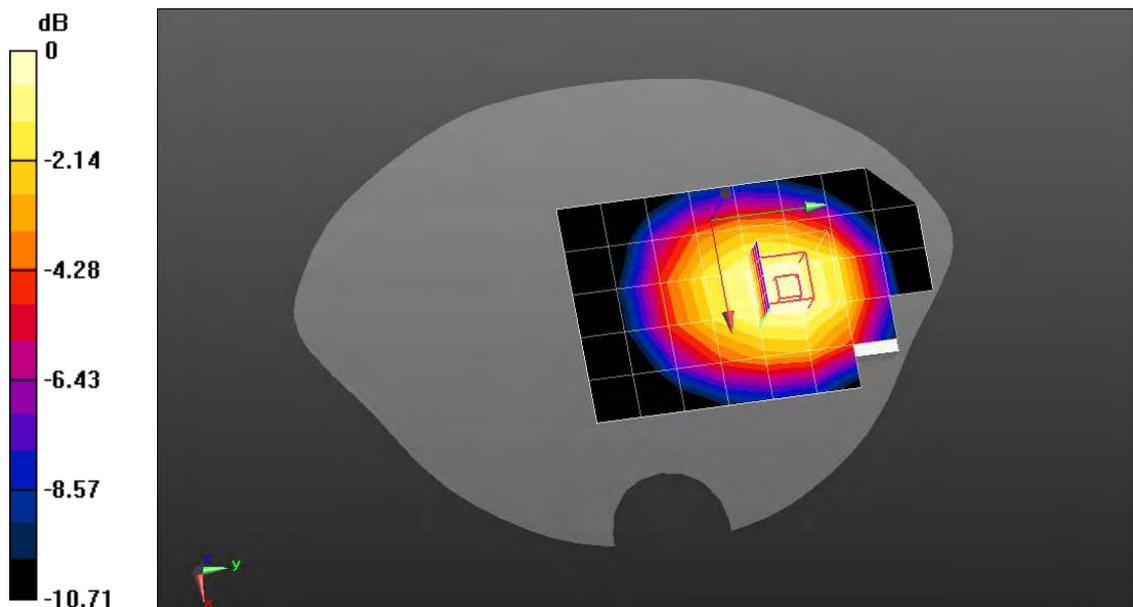
Maximum value of SAR (measured) = 0.642 mW/g

Configuration/WCDMA Band V Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.421 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.842 mW/g

SAR(1 g) = 0.653 mW/g; SAR(10 g) = 0.483 mW/g Maximum value of SAR (measured) = 0.688 mW/g



0 dB = 0.688 mW/g = -3.25 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Body-Front

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.97$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band V Mid Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

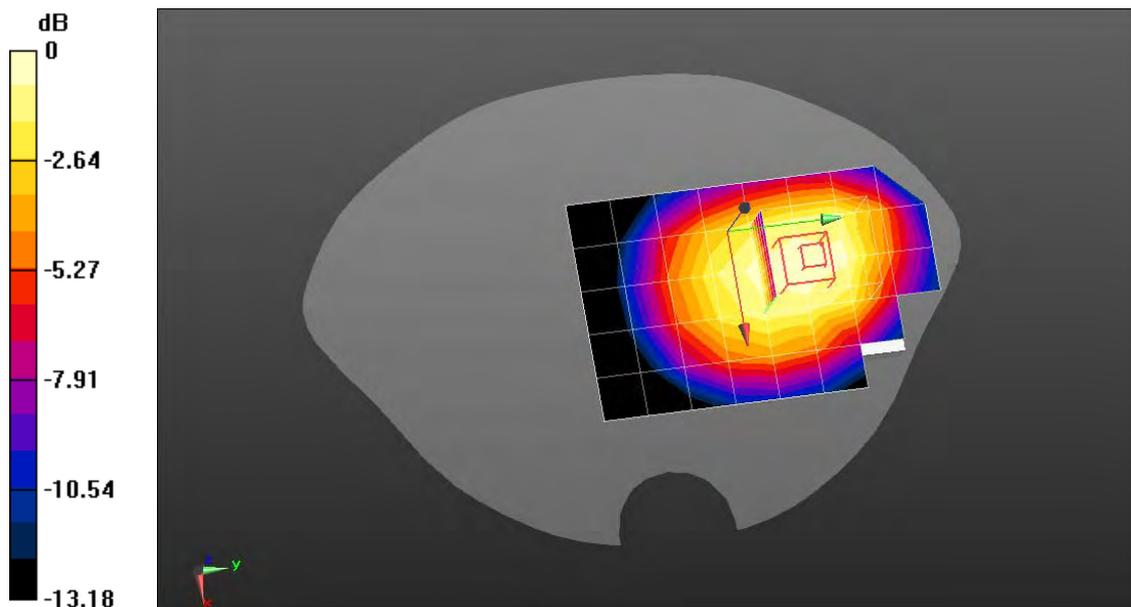
Maximum value of SAR (measured) = 0.334 mW/g

Configuration/WCDMA Band V Mid Body-Front/Zoom Scan (6x7x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.650 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.448 mW/g

SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.232 mW/g Maximum value of SAR (measured) = 0.333 mW/g



0 dB = 0.333 mW/g = -9.55 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Body-Back(with headset)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.97$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band V Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

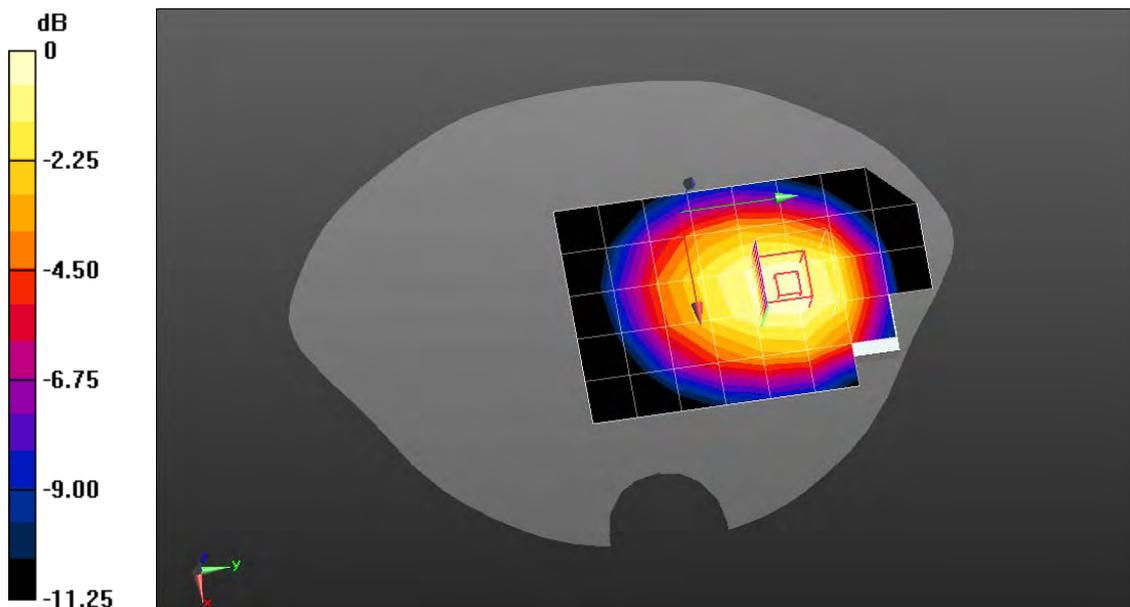
Maximum value of SAR (measured) = 0.554 mW/g

Configuration/WCDMA Band V Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.566 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.731 mW/g

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.412 mW/g Maximum value of SAR (measured) = 0.594 mW/g



0 dB = 0.594 mW/g = -4.52 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Body-Bottom

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.97$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band V Mid Body-Bottom/Area Scan (4x6x1): Measurement grid: dx=20mm, dy=20mm

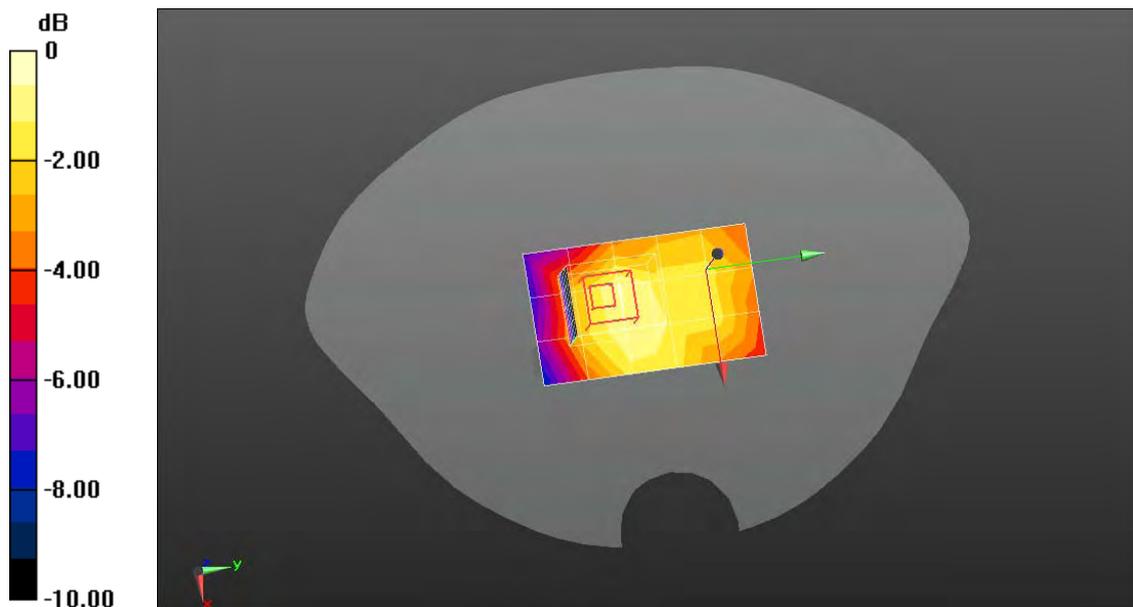
Maximum value of SAR (measured) = 0.0310 mW/g

Configuration/WCDMA Band V Mid Body-Bottom/Zoom Scan (5x6x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.135 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.058 mW/g

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.019 mW/g Maximum value of SAR (measured) = 0.0356 mW/g



0 dB = 0.0356 mW/g = -28.97 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Body-Right side

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.97$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

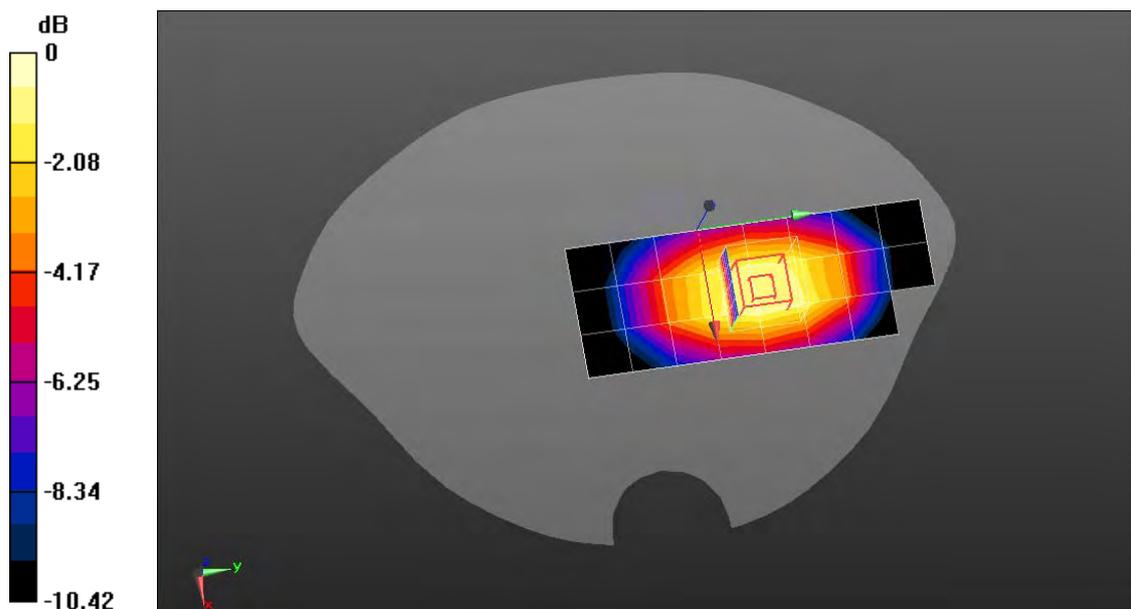
Configuration/WCDMA Band V Mid Body-Right side/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.350 mW/g

Configuration/WCDMA Band V Mid Body-Right side/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.802 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.548 mW/g

SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.257 mW/g Maximum value of SAR (measured) = 0.407 mW/g



0 dB = 0.407 mW/g = -7.81 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Body-Left side

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.97$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

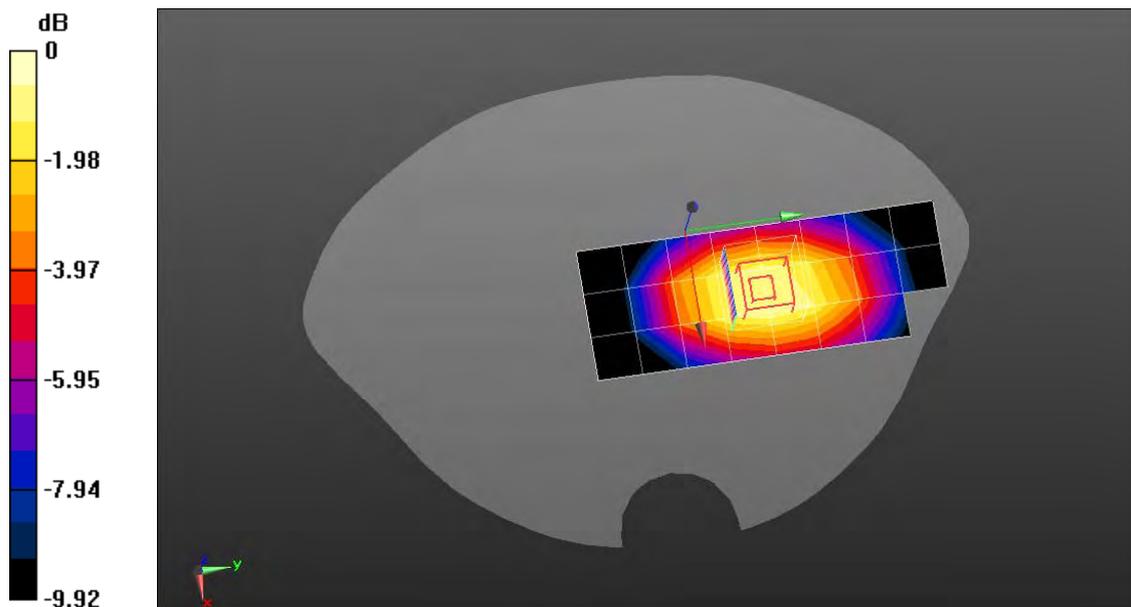
Configuration/WCDMA Band V Mid Body-Left side/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.256 mW/g

Configuration/WCDMA Band V Mid Body-Left side/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.321 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.398 mW/g

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.191 mW/g Maximum value of SAR (measured) = 0.298 mW/g



0 dB = 0.298 mW/g = -10.52 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Body-Back(with battery #2)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.97$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band V Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

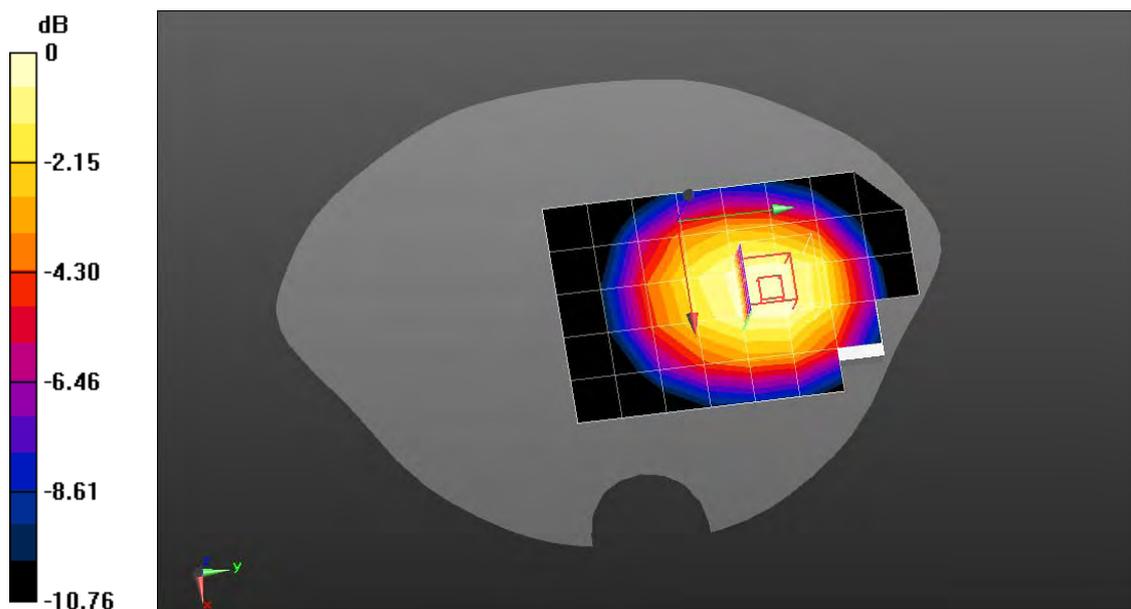
Maximum value of SAR (measured) = 0.617 mW/g

Configuration/WCDMA Band V Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.524 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.811 mW/g

SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.462 mW/g Maximum value of SAR (measured) = 0.659 mW/g



0 dB = 0.659 mW/g = -3.62 dB mW/g

Date/Time: 16-06-2012

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Body-Back(with battery #3)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.97$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/WCDMA Band V Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

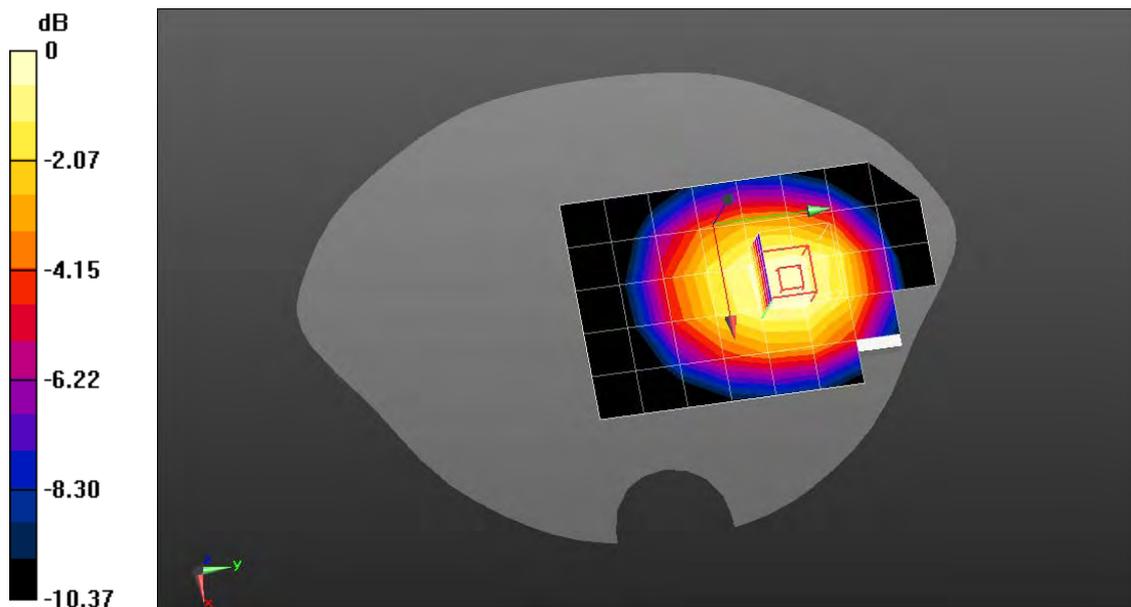
Maximum value of SAR (measured) = 0.651 mW/g

Configuration/WCDMA Band V Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.095 V/m; Power Drift = 0.08 dB

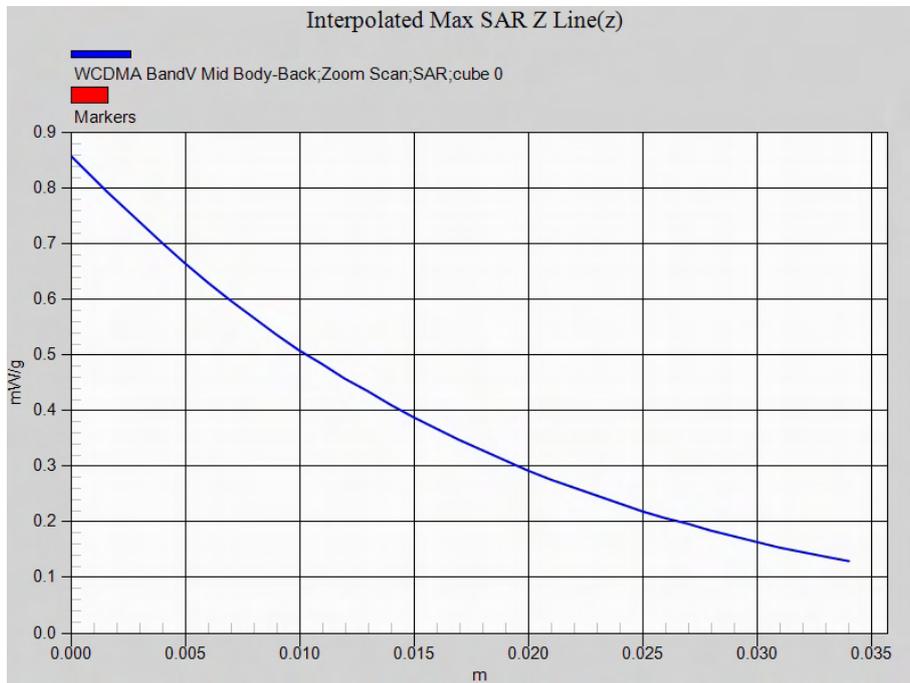
Peak SAR (extrapolated) = 0.859 mW/g

SAR(1 g) = 0.667 mW/g; SAR(10 g) = 0.493 mW/g Maximum value of SAR (measured) = 0.701 mW/g



0 dB = 0.701 mW/g = -3.09 dB mW/g

Z-Axis Plot



Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Touch-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 38.94$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

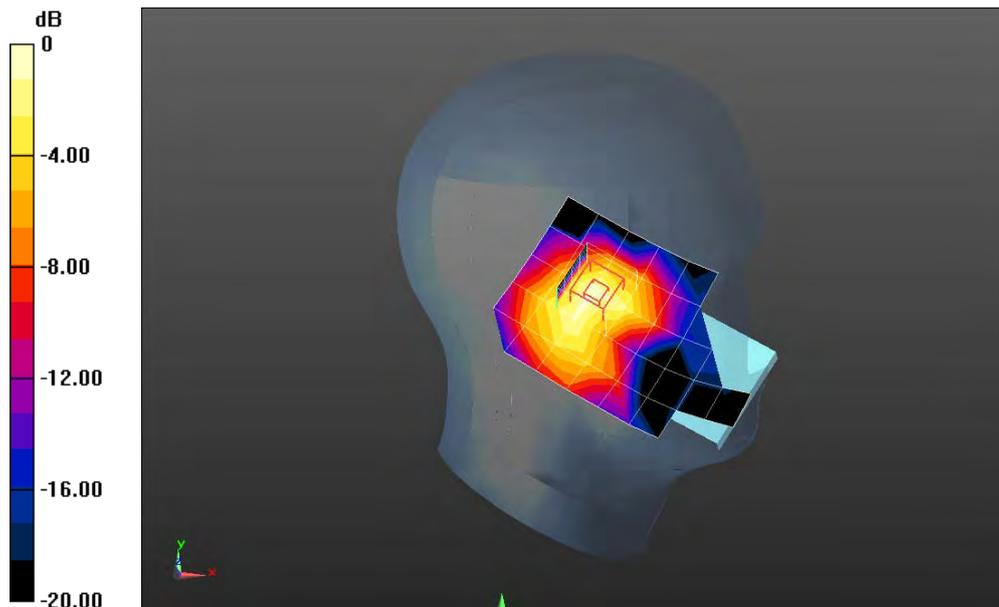
Configuration/802.11b Low Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0720 mW/g

Configuration/802.11b Low Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 5.065 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.129 mW/g

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.036 mW/g Maximum value of SAR (measured) = 0.0724 mW/g



0 dB = 0.0724 mW/g = -22.81 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Tilt-Left

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 38.94$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

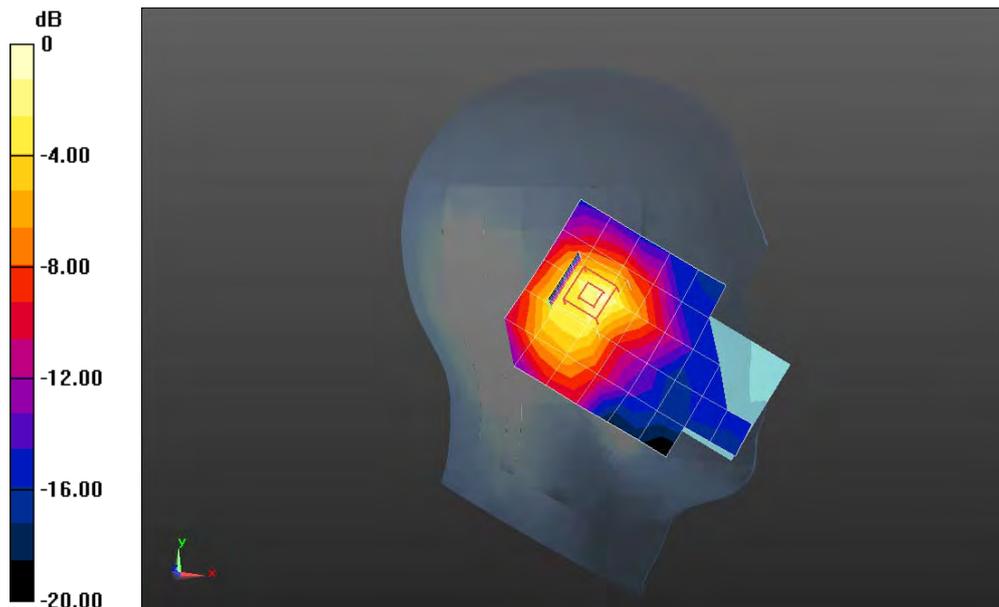
Configuration/802.11b Low Tilt-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0671 mW/g

Configuration/802.11b Low Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.224 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.146 mW/g

SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.037 mW/g Maximum value of SAR (measured) = 0.0799 mW/g



0 dB = 0.0799 mW/g = -21.95 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Touch-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 38.94$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

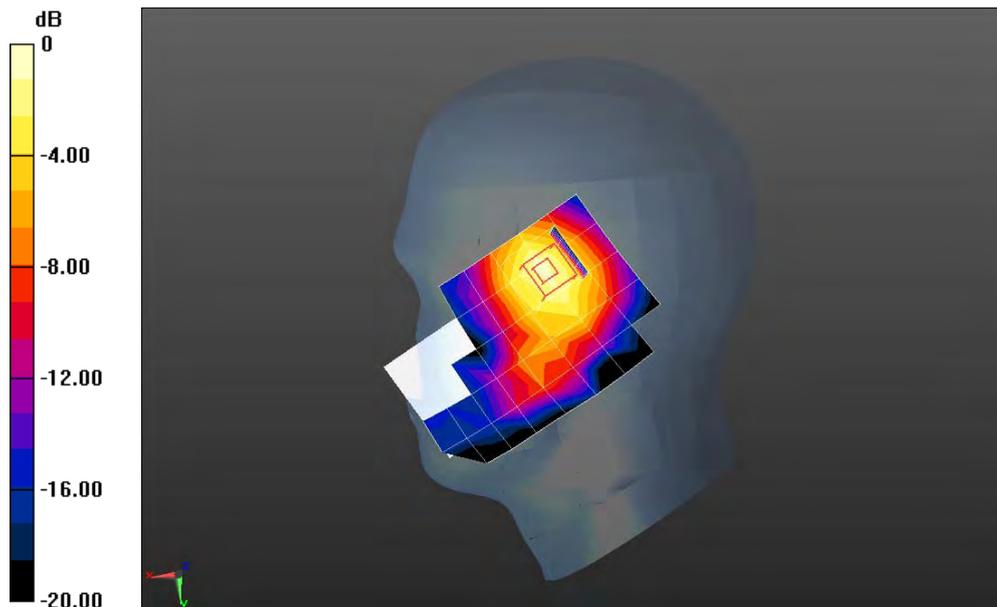
Configuration/802.11b Low Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0814 mW/g

Configuration/802.11b Low Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.706 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.166 mW/g

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.041 mW/g Maximum value of SAR (measured) = 0.0897 mW/g



0 dB = 0.0897 mW/g = -20.94 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Tilt-Right

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 38.94$; $\rho = 1000$ 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: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

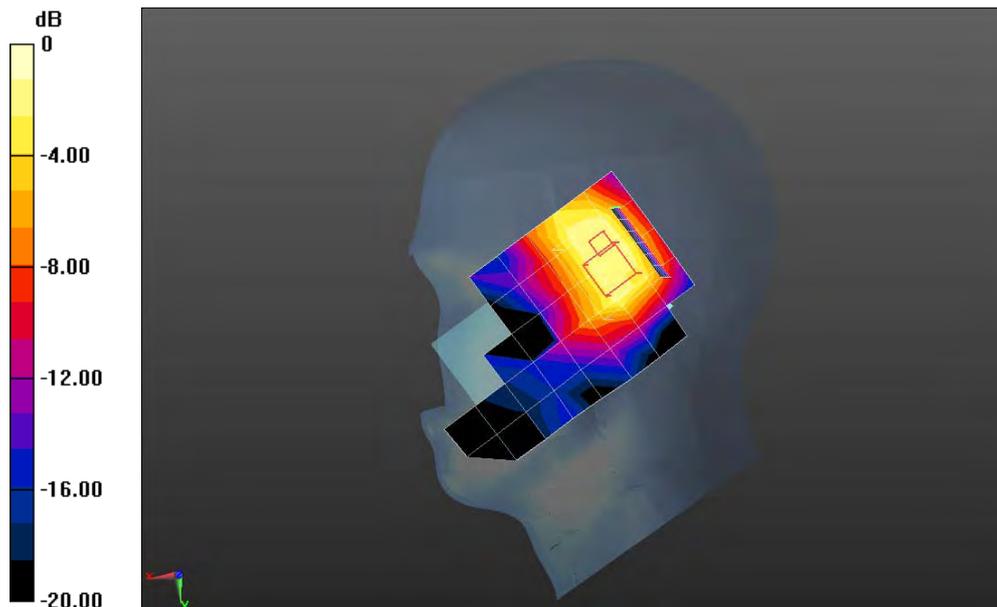
Configuration/802.11b Low Tilt-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0429 mW/g

Configuration/802.11b Low Tilt-Right/Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 5.871 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.119 mW/g

SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.030 mW/g Maximum value of SAR (measured) = 0.0631 mW/g



0 dB = 0.0631 mW/g = -24.00 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Body-Back

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.76$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

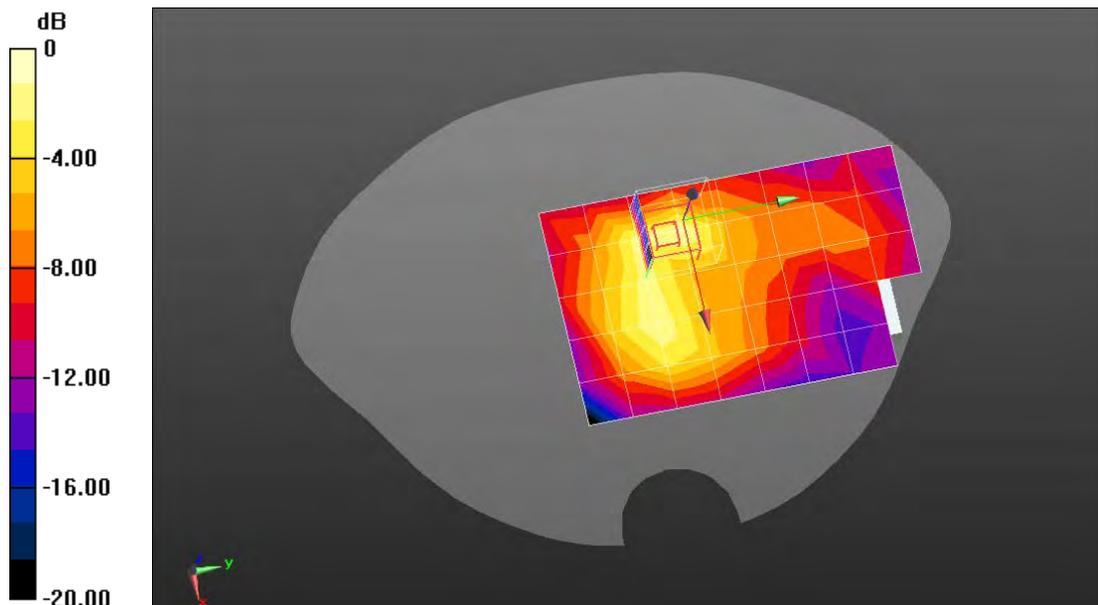
Configuration/802.11b Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0405 mW/g

Configuration/802.11b Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 3.914 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.112 mW/g

SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.021 mW/g Maximum value of SAR (measured) = 0.0522 mW/g



0 dB = 0.0522 mW/g = -25.65 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Body-Back(with headset)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.76$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

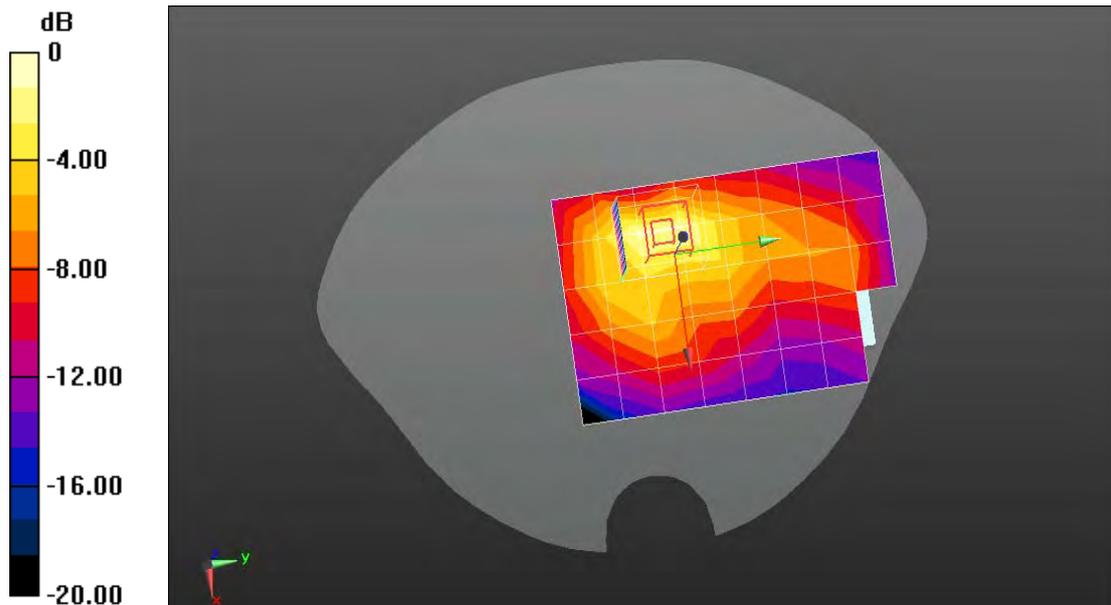
Configuration/802.11b Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0737 mW/g

Configuration/802.11b Low Body-Back/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.195 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.191 mW/g

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.039 mW/g Maximum value of SAR (measured) = 0.0927 mW/g



0 dB = 0.0927 mW/g = -20.66 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Body-Front(with headset)

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.76$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

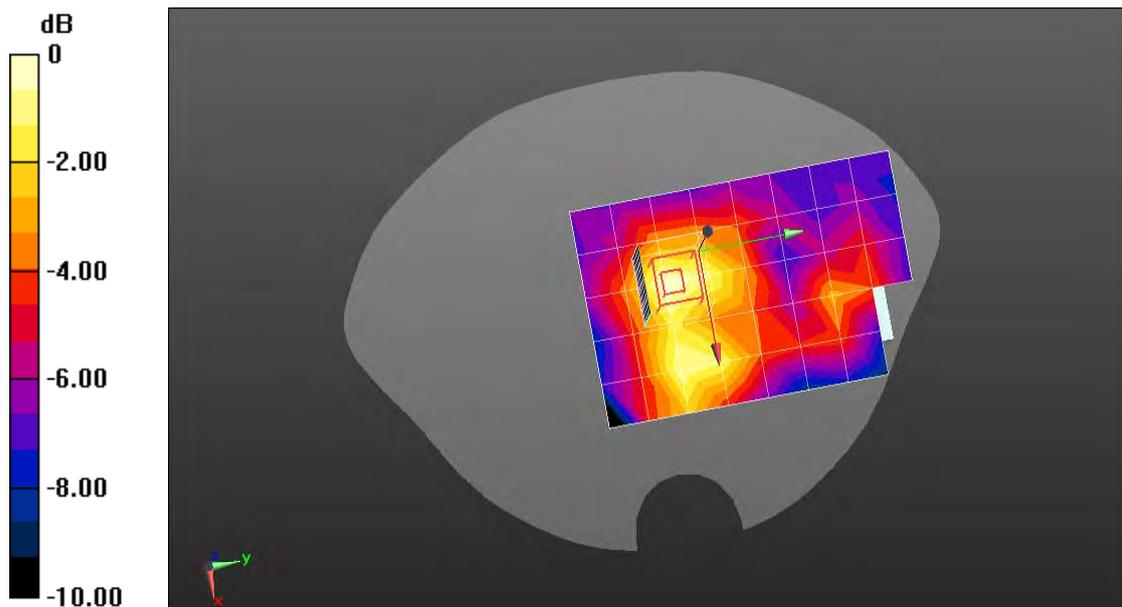
Configuration/802.11b Low Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0265 mW/g

Configuration/802.11b Low Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 2.928 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.047 mW/g

SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.012 mW/g Maximum value of SAR (measured) = 0.0258 mW/g



0 dB = 0.0258 mW/g = -31.77 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Body-Top

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.76$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

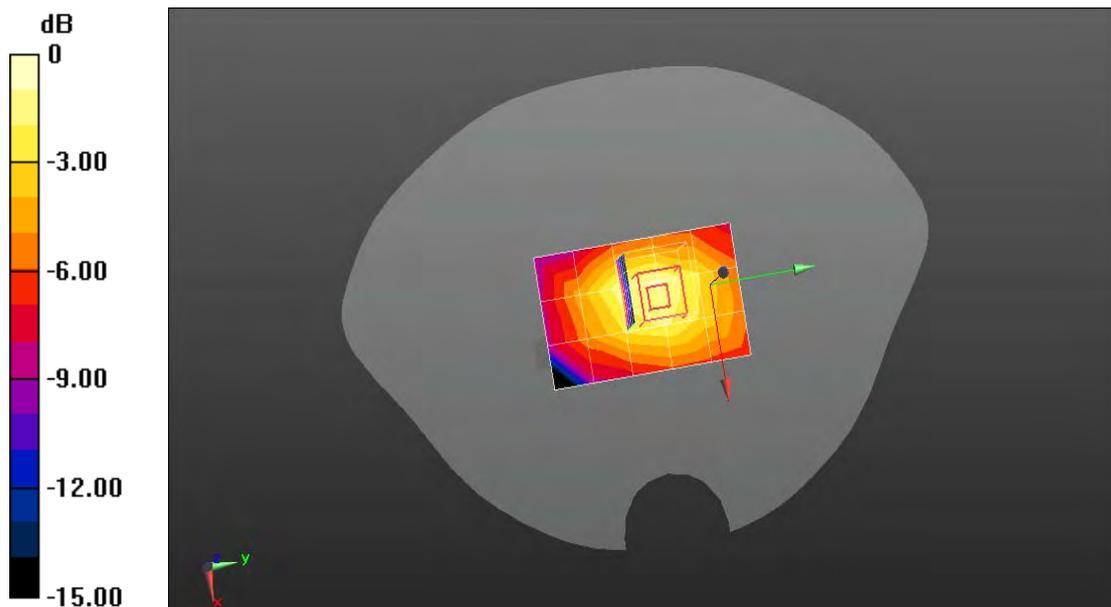
Configuration/802.11b Low Body-Top/Area Scan (4x6x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0285 mW/g

Configuration/802.11b Low Body-Top/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 3.906 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.073 mW/g

SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.018 mW/g Maximum value of SAR (measured) = 0.0344 mW/g



0 dB = 0.0344 mW/g = -29.27 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Body-Left side

DUT: Mobile Phone ; Type: HUAWEI U8812D-5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.76$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

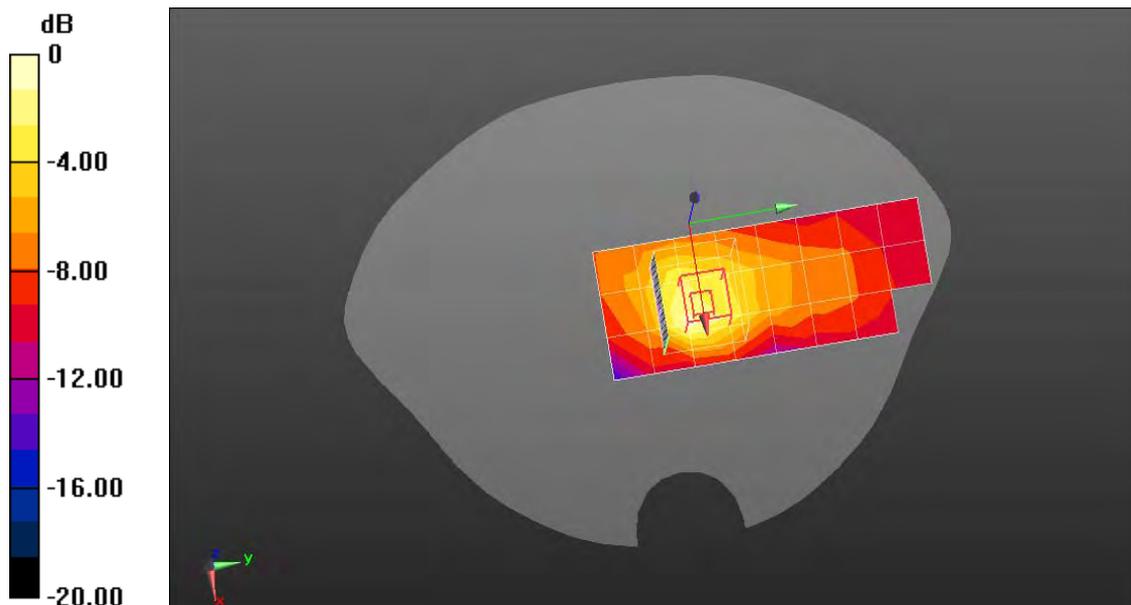
Configuration/802.11b Low Body-Left side/Area Scan (4x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0384 mW/g

Configuration/802.11b Low Body-Left side/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 2.190 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.084 mW/g

SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.018 mW/g Maximum value of SAR (measured) = 0.0451 mW/g



0 dB = 0.0451 mW/g = -26.92 dB mW/g

Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Body-Back(with battery #2)

DUT: Mobile Phone ; Type: HUAWEI U8812D

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.76$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

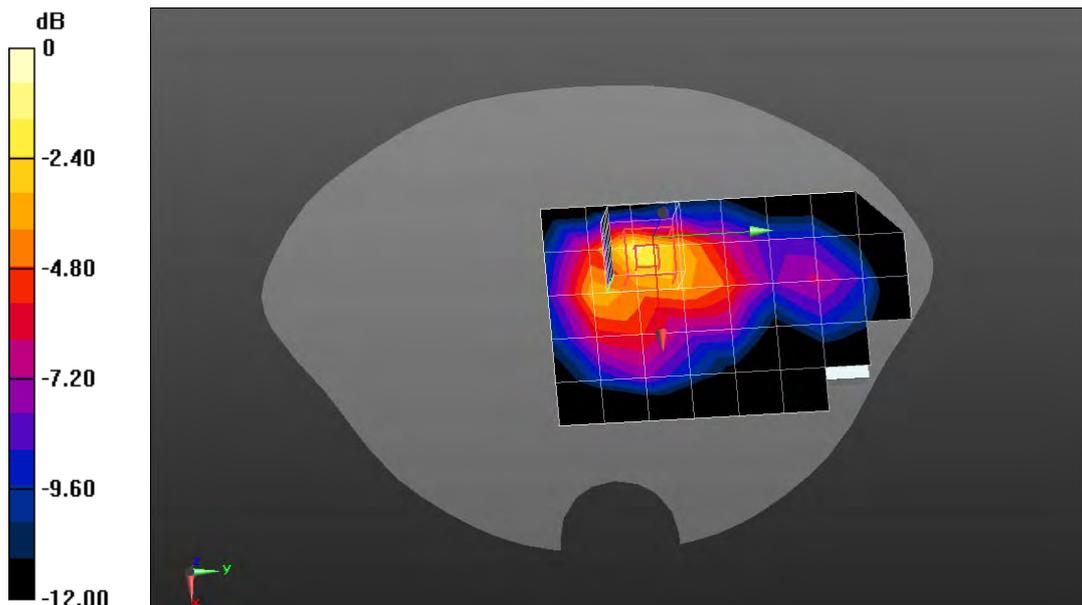
Configuration/802.11b Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0732 mW/g

Configuration/802.11b Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 4.398 V/m; Power Drift = 0.11 dB

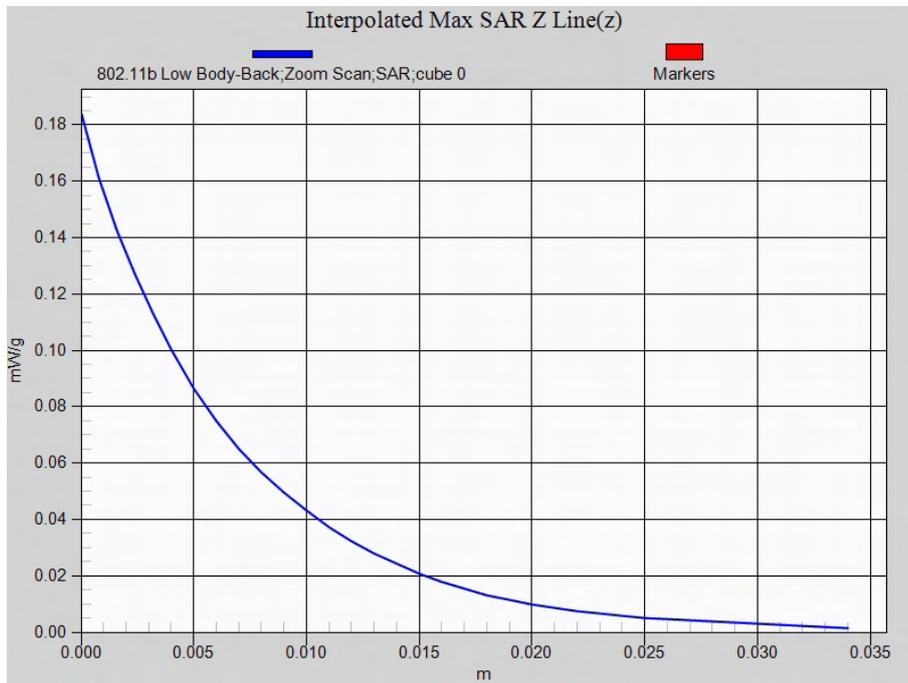
Peak SAR (extrapolated) = 0.184 mW/g

SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.041 mW/g Maximum value of SAR (measured) = 0.0971 mW/g



0 dB = 0.0971 mW/g = -20.26 dB mW/g

Z-Axis Plot



Date/Time: 18-06-2012

Test Laboratory: QuieTek Lab

802.11b 2412MHz Body-Back(with battery #3)

DUT: Mobile Phone ; Type: HUAWEI U8812D

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Frequency: 2412 MHz; Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.76$; $\rho = 1000$ 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 (1); SEMCAD X Version 14.6.5 (6469)

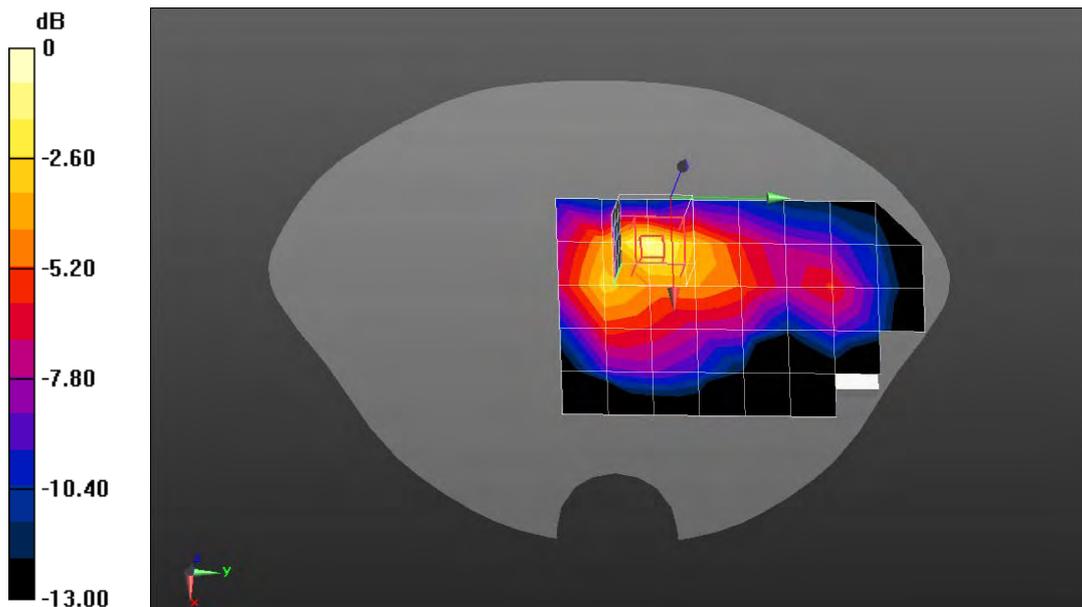
Configuration/802.11b Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.0569 mW/g

Configuration/802.11b Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 3.745 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.127 mW/g

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.027 mW/g Maximum value of SAR (measured) = 0.0665 mW/g



0 dB = 0.0665 mW/g = -23.54 dB mW/g