FCC SAR Test Report

APPLICANT: TCL Communication Ltd.

EQUIPMENT: Mobile Phone

BRAND NAME : ALCATEL ONETOUCH

MODEL NAME : 8050G

MARKETING NAME : PIXI 4 6" 3G Android

FCC ID : 2ACCJB037

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2013

We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

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lac-MRA



Report No.: FA5N0302-01

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Revision History

Report No. : FA5N0302-01

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5N0302-01	Rev. 01	This is a variant product of 8050E, the product equality declaration could be referred to Appendix E. All the test cases were performed on original report which can be referred to Sporton Report Number FA5N0302 (Model name: 8050E; FCC ID: 2ACCJB036). Based on the original test report, GSM1900 Hotspot mode full test and others were verified the worse mode for the differences.	Jan. 08, 2016

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **TCL Communication Ltd.**, **Mobile Phone**, **8050G** are as follows.

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		Highest SAR Summary			Highest	
Equipment Class			Head (Separation 0mm)	Body-worn (Separation 15mm)	Wireless Router (Separation 10mm)	Simultaneous Transmission
			1g SAR (W/kg)			
0014	GSM	GSM850	0.37	0.53	0.78	
Licensed		GSM1900	0.13	0.44	1.10	1.25
Licensed	WCDMA	Band V	0.25	0.37	0.53	1.25
WCDIVIA	Band II	0.22	0.63	1.08		
DTS	WLAN	2.4GHz WLAN	0.94	0.17	0.40	1.25
Date of Testing:			Dec. 26, 2015 ~ J	an. 05, 2016		

	Highest SAR Summary
Frequency	Extremity
Band	10g SAR (W/kg)
	(Gap 0mm)
GSM1900	2.93
WCDMA Band II	3.90

Note:

1. The SAR value list above are all rounded to two decimal digits.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits(1.6 W/kg as averaged over any 1 gram of tissue; 4.0W/kg as averaged over any 10 gram of tissue for extremity SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

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2. Administration Data

Testing Laboratory		
Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.	
Test Site Location	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	

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Applicant Applicant		
Company Name	TCL Communication Ltd.	
Address	5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area,Shanghai,201203,P.R.China	

Manufacturer		
Company Name	TCL Communication Ltd.	
Address	5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area,Shanghai,201203,P.R.China	

3. Guidance Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

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4. Equipment Under Test (EUT)

4.1 General Information

Product Feature & Specification			
Equipment Name	Mobile Phone		
Brand Name	ALCATEL ONETOUCH		
Model Name	8050G		
Marketing Name	PIXI 4 6" 3G Android		
FCC ID	2ACCJB037		
IMEI Code	014575000002498		
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz		
Mode	•GSM/GPRS/EGPRS(Downlink Only) •RMC/AMR 12.2Kbps •HSDPA •HSUPA •HSPA+ (16QAM uplink is not supported) •802.11b/g/n/ HT20/HT40 •Bluetooth v3.0+EDR, Bluetooth v4.1 LE		
HW Version	V04		
SW Version	1A1D		
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.		
EUT Stage	Production Unit		
Domark:			

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Remark:

- 1. This device 2.4GHz supports hotspot operation.
- 2. This device supported VoIP in GPRS and WCDMA (e.g. 3rd party VoIP).
- 3. This device supports GRPS / EGPRS mode up to multi-slot class 12 and EGPRS downlink only.
- 4. This device does not support DTM operation.
- 5. When hotspot mode is enabled, power reduction will be activated at WCDMA Band II for 8050E. When hotspot mode is enabled, power reduction will be activated at GSM1900 and WCDMA Band II for 8050G.

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4.2 Specification of Accessory

		Specification of Acc	cessory		
	Brand Name	ALCATEL ONETOUCH	Model Name	UC11US	
AC Adapter1	Power Rating	I/P: AC100-240V ~50	0/60Hz 0.2A, O/P: D	C5.0V-1.0A	
	P/N	CBA0058AG0C2			
		Specification of Acc	essory		
AC Adapter2	Brand Name	ALCATEL ONETOUCH	Model Name	UC11US	
AC Adapter2	Power Rating	I/P: AC100-240V ~50	0/60Hz 0.2A, O/P: D	C5.0V-1.0A	
	P/N	CBA0058AG0C3			
	Brand Name	ALCATEL ONETOUCH	Model Name	TLp025D2	
Battery1	Power Rating	3.8V 2580mAh			
	S/N	C2820012C2YF908I	HWSFP		
	Brand Name	ALCATEL ONETOUCH	Model Name	TLp025DC	
Battery2	Power Rating	3.8V 2580mAh			
	S/N	C2820012C2YF908I	C2820012C2YF908HWSFP		
USB Cable1	Brand Name	NA	Model Name	NA	
USB Cable I	Signal Line Type	1.0m shielded without core			
USB Cable2	Brand Name	NA	Model Name	NA	
USB Cable2	Signal Line Type	1.0m shielded withou	ut core		
Familia mad	Brand Name	NA	Model Name	NA	
Earphone1	Signal Line Type	1.5m non-shielded w	1.5m non-shielded without core		
Earphone2	Brand Name	NA	Model Name	NA	
	Signal Line Type	1.5m non-shielded w	vithout core		

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5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

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5.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

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

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

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6. Specific Absorption Rate (SAR)

6.1 Introduction

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

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6.2 SAR Definition

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

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

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

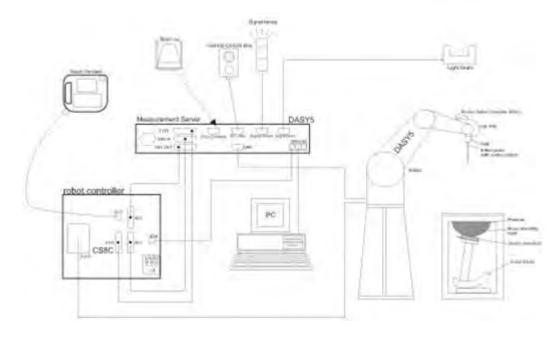
$$SAR = \frac{\sigma |E|^2}{\rho}$$

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

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7. System Description and Setup

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



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- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- 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 function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps,
- The phantom, the device holder and other accessories according to the targeted measurement.

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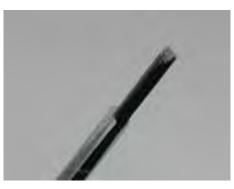
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7.1 E-Field Probe

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. This probe has a built in optical surface detection system to prevent from collision with phantom.

<EX3DV4 Probe>

Construction	Symmetric design with triangular core	
	Built-in shielding against static charges	
	PEEK enclosure material (resistant to organic	
	solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz	
	Linearity: ±0.2 dB (30 MHz – 6 GHz)	
Directivity	±0.3 dB in TSL (rotation around probe axis)	
	±0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μW/g – >100 mW/g	
	Linearity: ±0.2 dB (noise: typically <1 µW/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm)	
	Tip diameter: 2.5 mm (body: 12 mm)	
	Typical distance from probe tip to dipole centers: 1	
	mm	



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7.2 Data Acquisition Electronics (DAE)

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 DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

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7.3 Phantom

<SAM Twin Phantom>

- C7 an I Will I Hartonii		
Shell Thickness	2 ± 0.2 mm;	
	Center ear point: 6 ± 0.2 mm	And the second second
Filling Volume	Approx. 25 liters	+ //
Dimensions	Length: 1000 mm; Width: 500 mm; Height:	
	adjustable feet	S
Measurement Areas	Left Hand, Right Hand, Flat Phantom	3

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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.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

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7.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.





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Mounting Device for Hand-Held Transmitters

Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

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8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

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- (b) Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band (e)
- Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

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

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

8.1 Spatial Peak SAR Evaluation

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

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

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

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

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8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

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8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution x or y dimension of the test of measurement point on the test	on, is smaller than the above, must be \leq the corresponding device with at least one

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8.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

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Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz	
Maximum zoom scan s	spatial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$	
	uniform	grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid $\Delta z_{Zoom}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume	X V 7		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

8.5 Volume Scan Procedures

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

8.6 Power Drift Monitoring

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

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When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

9. Test Equipment List

Manufacturer	Name of Equipment	Turno/Model	Carial Number	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d200	Aug. 20, 2015	Aug. 19, 2016
SPEAG	1900MHz System Validation Kit	D1900V2	5d210	Aug. 19, 2015	Aug. 18, 2016
SPEAG	2450MHz System Validation Kit	D2450V2	926	Jul. 24, 2015	Jul. 23, 2016
SPEAG	Data Acquisition Electronics	DAE4	1303	Nov. 24, 2015	Nov. 23, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3819	Nov. 27, 2015	Nov. 26, 2016
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1671	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Aug. 25, 2015	Aug. 24, 2016
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Aug. 07, 2015	Aug. 06, 2016
R&S	Network Analyzer	ZVB8	100106	Oct. 20, 2015	Oct. 19, 2016
Speag	Dielectric Assessment KIT	DAK-3.5	1071	Nov. 24, 2015	Nov. 23, 2016
R&S	Signal Generator	SMBV100A	258305	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Sensor	MA2411B	1207253	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Meter	ML2495A	1218010	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Senor	MA2411B	917070	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Meter	ML2495A	1005002	Jan. 23, 2015	Jan. 22, 2016
R&S	Spectrum Analyzer	FSP7	101634	Aug. 07, 2015	Aug. 06, 2016
ARRA	Power Divider	A3200-2	N/A	No	te1
Agilent	Dual Directional Coupler	778D	50422	No	te1
AR	Amplifier	5S1G4	333096	No	te1
MCL	Attenuation1	BW-S10W5	N/A	No	te1
Weinschel	Attenuation2	3M-20	N/A	No	te1
Zhongjilianhe	Attenuation3	MVE2214-03	N/A	No	te1

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General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.

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10. System Verification

10.1 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

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Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)				
For Head												
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5				
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0				
2450	55.0	0	0	0	0	45.0	1.80	39.2				
				For Body								
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2				
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3				
2450	68.6	0	0	0	0	31.4	1.95	52.7				

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Conductivity Permittivity Target (σ) Target (ϵ_r)		Delta (ε _r) (%)	Limit (%)	Date	
835	Head	22.6	0.902	40.749	0.90	41.50	0.22	-1.81	£	2015/12/26	
1900	Head	22.8	1.457	39.135	1.40	40.00	4.07	-2.16	£	2015/12/27	
2450	Head	22.8	1.820	39.753	1.80	39.20	1.11	1.41	£5	2015/12/29	
835	Body	22.7	0.972	53.975	0.97	55.20	0.21	-2.22	±5	2015/12/26	
1900	Body	22.7	1.548	54.595	1.52	53.30	1.84	2.43	±5	2015/12/28	
1900	Body	22.9	1.501	54.273	1.52	53.30	-1.25	1.83	£5	2016/01/05	
2450	Body	22.8	1.938	51.276	1.95	52.70	-0.62	-2.70	£	2015/12/29	

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10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured SAR (W/kg)	Targeted SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)
2015/12/26	835	Head	250	4d200	3819	1303	2.31	9.15	9.24	0.98
2015/12/27	1900	Head	250	5d210	3819	1303	10.80	41.10	43.2	5.11
2015/12/29	2450	Head	250	926	3819	1303	12.30	52.10	49.2	-5.57
2015/12/26	835	Body	250	4d200	3819	1303	2.31	9.55	9.24	-3.25
2015/12/28	1900	Body	250	5d210	3819	1303	10.30	40.00	41.2	3.00
2016/01/05	1900	Body	250	5d210	3819	1303	10.40	40.00	41.6	4.00
2015/12/29	2450	Body	250	926	3819	1303	13.70	51.70	54.8	6.00

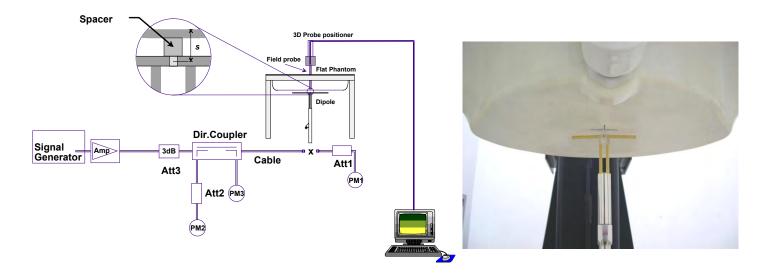


Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

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11. RF Exposure Positions

11.1 Ear and handset reference point

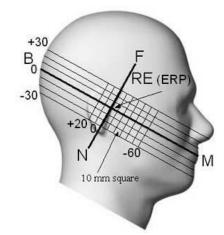
Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.



Fig 9.1.1 Front, back, and side views of SAM twin phantom



Fig 9.1.2 Close-up side view of phantom showing the ear region.



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Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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11.2 Definition of the cheek position

- Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
- Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- 5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line. 6.
- While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

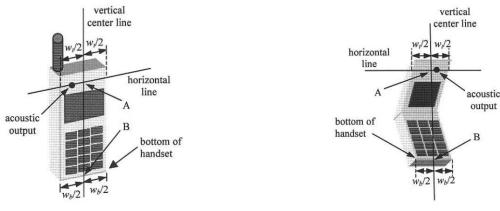


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

Fig 9.2.2 Handset vertical and horizontal reference lines-"clam-shell case"

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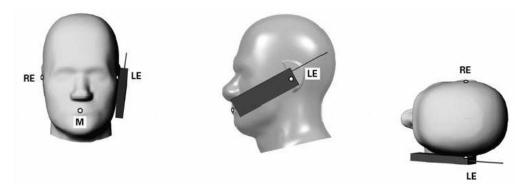


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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11.3 Definition of the tilt position

- 1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- 2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- 3. Rotate the handset around the horizontal line by 15°.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

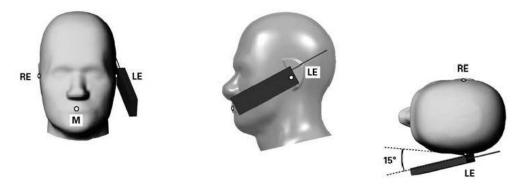


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessorv SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

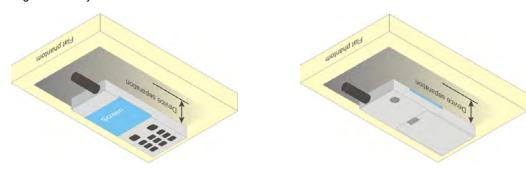


Fig 9.4 Body Worn Position

11.5 Extremity Exposure

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For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

- 1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must
- 2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

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11.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W \ge 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

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12. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

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- 2. Per KDB 941225 D01v03r01, considering the possibility of e.g. 3rd party VoIP operation for Head and body-worn SAR test reduction for GSM and GPRS modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the EUT was set in GPRS (2Tx slots) for GSM850/GSM1900.
- Per KDB 941225 D01v03r01, for Hotspot SAR test reduction for GPRS mode is determined by the source-based time-averaged output power including tune-up tolerance, for modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested, therefore, the EUT was set in GPRS (2Tx slots) for GSM850/GSM1900.

SIM1:

Band GSM850	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	ver (dBm)	Tune-up
Tx Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	32.55	<mark>32.59</mark>	32.56	33.50	23.55	23.59	23.56	24.50
GPRS (GMSK, 1 Tx slot) – CS1	32.53	32.57	32.55	33.50	23.53	23.57	23.55	24.50
GPRS (GMSK, 2 Tx slots) – CS1	31.25	31.29	31.27	32.00	25.25	25.29	25.27	26.00
GPRS (GMSK, 3 Tx slots) – CS1	29.23	29.28	29.27	30.00	24.97	25.02	25.01	25.74
GPRS (GMSK, 4 Tx slots) – CS1	27.76	27.80	27.79	28.50	24.76	24.80	24.79	25.50
Band GSM1900	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	ver (dBm)	Tune-up
Tx Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM (GMSK, 1 Tx slot)	29.95	29.98	29.99	30.50	20.95	20.98	20.99	21.50
33111 (3111311)	20.00	20.00	_0.00	00.00	1	2	3	
GPRS (GMSK, 1 Tx slot) – CS1	29.92	29.95	29.96	30.50	20.92	20.95	20.96	21.50
GPRS (GMSK, 1 Tx slot) – CS1	29.92	29.95	29.96	30.50	20.92	20.95	20.96	21.50
GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1	29.92 28.34	29.95 28.39	29.96 28.43	30.50 28.50	20.92 22.34	20.95 22.39	20.96 22.43	21.50 22.50

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

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SIM2:

Band GSM850	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
Tx Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	32.53	<mark>32.56</mark>	32.54	33.50	23.53	23.56	23.54	24.50
GPRS (GMSK, 1 Tx slot) – CS1	32.52	32.54	32.53	33.50	23.52	23.54	23.53	24.50
GPRS (GMSK, 2 Tx slots) – CS1	31.23	31.27	31.26	32.00	25.23	<mark>25.27</mark>	25.26	26.00
GPRS (GMSK, 3 Tx slots) – CS1	29.20	29.26	29.23	30.00	24.94	25.00	24.97	25.74
GPRS (GMSK, 4 Tx slots) – CS1	27.70	27.75	27.73	28.50	24.70	24.75	24.73	25.50
Band GSM1900	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
Tx Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM (GMSK, 1 Tx slot)	29.90	29.94	<mark>29.97</mark>	30.50	20.90	20.94	20.97	21.50
GPRS (GMSK, 1 Tx slot) – CS1	29.88	29.90	29.93	30.50	20.88	20.90	20.93	21.50
GPRS (GMSK, 2 Tx slots) – CS1	28.30	28.36	28.40	28.50	22.30	22.36	22.40	22.50
GPRS (GMSK, 3 Tx slots) – CS1	26.29	26.31	26.33	26.50	22.03	22.05	22.07	22.24
GPRS (GMSK, 4 Tx slots) – CS1	24.75	24.81	24.87	25.00	21.75	21.81	21.87	22.00

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Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

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<WCDMA Conducted Power>

- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.

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A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	βο	βd	βd (SF)	βс/βа	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

- Note 1: \triangle_{ACK} , \triangle_{NACK} and $\triangle_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.
- Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK = 30/15 with β_{hs} = 30/15 * β_c , and \triangle CQI = 24/15 with β_{hs} = 24/15 * β_c .
- Note 3: CM = 1 for β_0/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HSDPCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
- Note 4: For subtest 2 the β_d/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15

Setup Configuration

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HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting *:
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121

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- iii. Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- v. Set UE Target Power
- vi. Power Ctrl Mode= Alternating bits
- vii. Set and observe the E-TFCI
- viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub- test	βς	βa	β _d (SF)	βc/βd	βнs (Note1)	βес	β _{ed} (Note 5) (Note 6)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/2 25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

- Note 1: $\Delta_{\rm ACK}$, $\Delta_{\rm NACK}$ and $\Delta_{\rm CQI}$ = 30/15 with β_{hs} = 30/15 * β_c .
- Note 2: CM = 1 for β_0/β_d =12/15, β_{1s}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
- Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
- Note 4: For subtest 5 the β_d/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15.
- Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
- Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

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<WCDMA Conducted Power>

General Note:

Per KDB 941225 D01v03r01, SAR for Head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

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Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR when EUT operating without power back-off for WCDMA Band V and operating with power back-off WCDMA Band II. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is ≤ 1/4 dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA.

SIM1:

Maximum Average RF Power (Full Power)

Maximum Average Kr Fower (Full Fower)									
	Band	WC	DMA Bar	id V	T	W	CDMA Band	II	T
T	(Channel	4132	4132 4162 4233 Limit		Tune-up	9262	9400	9538	Tune-up Limit
R	c Channel	4357			9662	9800	9938	(dBm)	
Frequ	uency (MHz)	826.4	836.4	846.6	(dBIII)	1852.4	1880	1907.6	(dBIII)
3GPP Rel 99	AMR 12.2Kbps	23.10	23.01	23.12	24.00	23.55	23.45	23.50	24.00
3GPP Rel 99	RMC 12.2Kbps	23.12	23.06	23.15	24.00	23.60	23.46	23.55	24.00
3GPP Rel 6	HSDPA Subtest-1	22.10	22.07	22.00	22.50	22.19	22.11	22.11	22.50
3GPP Rel 6	HSDPA Subtest-2	22.07	22.03	21.97	22.50	22.17	22.10	22.09	22.50
3GPP Rel 6	HSDPA Subtest-3	21.61	21.57	21.51	22.00	21.74	21.61	21.62	22.00
3GPP Rel 6	HSDPA Subtest-4	21.60	21.55	21.53	22.00	21.73	21.61	21.60	22.00
3GPP Rel 6	HSUPA Subtest-1	20.11	20.09	20.01	20.50	20.20	20.21	20.15	20.50
3GPP Rel 6	HSUPA Subtest-2	20.12	20.08	19.96	20.50	20.25	20.10	20.14	20.50
3GPP Rel 6	HSUPA Subtest-3	21.08	21.07	20.93	21.50	21.20	21.17	21.16	21.50
3GPP Rel 6	HSUPA Subtest-4	19.53	19.47	19.43	20.00	19.71	19.55	19.64	20.50
3GPP Rel 6	HSUPA Subtest-5	22.10	22.10	22.00	22.50	22.20	22.20	22.20	22.50

Reduced Average RF Power (Hotspot Reduced Power)

	Band		WCDMA Band II		-
•	TX Channel	9262	9400	9538	Tune-up Limit
	Rx Channel	9662	9800	9938	(dBm)
Frequency (MHz)		1852.4	1880	1907.6	(dDIII)
3GPP Rel 99	AMR 12.2Kbps	20.72	20.60	20.65	21.00
3GPP Rel 99	RMC 12.2Kbps	<mark>20.78</mark>	20.62	20.69	21.00
3GPP Rel 6	HSDPA Subtest-1	20.21	20.15	20.06	20.50
3GPP Rel 6	HSDPA Subtest-2	20.21	20.18	20.06	20.50
3GPP Rel 6	HSDPA Subtest-3	19.72	19.61	19.57	20.00
3GPP Rel 6	HSDPA Subtest-4	19.69	19.60	19.60	20.00
3GPP Rel 6	HSUPA Subtest-1	18.23	18.13	18.11	18.50
3GPP Rel 6	HSUPA Subtest-2	18.21	18.12	18.08	18.50
3GPP Rel 6	HSUPA Subtest-3	19.17	19.11	19.05	19.50
3GPP Rel 6	HSUPA Subtest-4	17.70	17.61	17.60	18.50
3GPP Rel 6	HSUPA Subtest-5	20.20	20.20	20.20	20.50

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SIM2:

Maximum Average RF Power (Full Power)

	orago iti i owor (i a								
	Band	WC	DMA Bar	id V	T	W	CDMA Band	II .	T
TX	(Channel	4132	4182	4233	Tune-up Limit	9262	9400	9538	Tune-up Limit
R	Channel	4357	4407	4458	(dBm)	9662	9800	9938	(dBm)
Frequ	uency (MHz)	826.4	836.4	846.6	(dBIII)	1852.4	1880	1907.6	(dDIII)
3GPP Rel 99	AMR 12.2Kbps	23.07	23.01	23.10	24.00	23.52	23.40	23.51	24.00
3GPP Rel 99	RMC 12.2Kbps	23.10	23.03	23.12	24.00	23.58	23.44	23.54	24.00
3GPP Rel 6	HSDPA Subtest-1	22.04	22.01	21.94	22.50	22.13	22.05	22.05	22.50
3GPP Rel 6	HSDPA Subtest-2	22.00	21.97	21.95	22.50	22.12	22.04	22.03	22.50
3GPP Rel 6	HSDPA Subtest-3	21.55	21.51	21.43	22.00	21.68	21.56	21.58	22.00
3GPP Rel 6	HSDPA Subtest-4	21.54	21.49	21.47	22.00	21.67	21.55	21.54	22.00
3GPP Rel 6	HSUPA Subtest-1	20.03	20.00	20.01	20.50	20.14	20.15	20.09	20.50
3GPP Rel 6	HSUPA Subtest-2	20.06	20.02	19.90	20.50	20.19	20.05	20.07	20.50
3GPP Rel 6	HSUPA Subtest-3	21.02	21.01	20.98	21.50	21.16	21.10	21.13	21.50
3GPP Rel 6	HSUPA Subtest-4	19.47	19.41	19.37	20.00	19.65	19.49	19.58	20.50
3GPP Rel 6	HSUPA Subtest-5	22.02	22.01	21.98	22.50	22.14	22.12	22.10	22.50

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Reduced Average RF Power (Hotspot Reduced Power)

J	Band	1	WCDMA Band II		_
	TX Channel	9262	9400	9538	Tune-up Limit
	Rx Channel	9662	9800	9938	(dBm)
Frequency (MHz)		1852.4	1880	1907.6	(dDIII)
3GPP Rel 99 AMR 12.2Kbps		20.71	20.56	20.61	21.00
3GPP Rel 99	RMC 12.2Kbps	20.75	20.60	20.67	21.00
3GPP Rel 6	HSDPA Subtest-1	20.16	20.12	20.03	20.50
3GPP Rel 6	HSDPA Subtest-2	20.17	20.13	20.05	20.50
3GPP Rel 6	HSDPA Subtest-3	19.67	19.56	19.52	20.00
3GPP Rel 6	HSDPA Subtest-4	19.65	19.54	19.55	20.00
3GPP Rel 6	HSUPA Subtest-1	18.20	18.08	18.05	18.50
3GPP Rel 6	HSUPA Subtest-2	18.15	18.07	18.02	18.50
3GPP Rel 6	HSUPA Subtest-3	19.12	19.06	19.02	19.50
3GPP Rel 6	HSUPA Subtest-4	17.65	17.56	17.55	18.50
3GPP Rel 6	HSUPA Subtest-5	20.19	20.17	20.14	20.50

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<WLAN Conducted Power>

General Note:

Per KDB 248227 D01v02r02. SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.

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- 2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
- For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands. When the same maximum power is 3. specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
- 4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

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<2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412		16.68	17.00	
	802.11b	CH 6	2437	1Mbps	16.42	17.00	100.00
		CH 11	2462		<mark>16.71</mark>	17.00	
		CH 1	2412		14.49	15.00	97.90
2.4GHz WLAN	802.11g	CH 6	2437	6Mbps	14.48	15.00	
		CH 11	2462		14.54	15.00	
		CH 1	2412		14.55	15.00	
	802.11n-HT20	CH 6	2437	MCS0	14.59	15.00	96.57
		CH 11	2462		14.63	15.00	
		CH 3	2422		14.67	15.00	
	802.11n-HT40	CH 6	2437	MCS0	14.45	15.00	95.17
		CH 9	2452		14.70	15.00	

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13. Bluetooth Exclusions Applied

Mode Band	Average power(dBm)					
	Bluetooth v3.0+EDR	Bluetooth v4.1 LE				
2.4GHz Bluetooth	5.00	-3.00				

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Note:

1. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Bluetooth Max Power (dBm) Separation Distance (mm)		Frequency (GHz)	exclusion thresholds	
5.00	5	2.48	0.9	

Note:

Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.9which is <= 3, SAR testing is not required.

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14. Spot Check Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

Maximum Average RF Power (Full Power)

Band GSM850	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
Tx Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	32.10	<mark>32.15</mark>	32.10	33.50	23.10	23.15	23.10	24.50
GPRS (GMSK, 1 Tx slot) – CS1	32.07	32.11	32.08	33.50	23.07	23.11	23.08	24.50
GPRS (GMSK, 2 Tx slots) – CS1	30.79	30.85	30.82	32.00	24.79	24.85	24.82	26.00
GPRS (GMSK, 3 Tx slots) – CS1	28.80	28.88	28.86	30.00	24.54	24.62	24.60	25.74
GPRS (GMSK, 4 Tx slots) – CS1	27.35	27.38	27.37	28.50	24.35	24.38	24.37	25.50
Band GSM1900	Burst Ave	erage Pow	ver (dBm)	Tuno un	Frame-Av	erane Pov	ver (dRm)	T
	29.00	siage i ev	roi (abiii)	Tulle-up	I fame / W	crage i or	wei (ubiii)	rune-up
Tx Channel	512	661	810	Limit	512	661	810	Limit
Tx Channel	512	661	810	Limit	512	661	810	Limit
Tx Channel Frequency (MHz)	512 1850.2	661 1880	810 1909.8	Limit (dBm)	512 1850.2	661 1880	810 1909.8	Limit (dBm)
Tx Channel Frequency (MHz) GSM (GMSK, 1 Tx slot)	512 1850.2 29.48	661 1880 29.50	810 1909.8 29.52	Limit (dBm) 30.50	512 1850.2 20.48	661 1880 20.50	810 1909.8 20.52	Limit (dBm)
Tx Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1	512 1850.2 29.48 29.45	661 1880 29.50 29.48	810 1909.8 29.52 29.50	Limit (dBm) 30.50 30.50	512 1850.2 20.48 20.45	661 1880 20.50 20.48	810 1909.8 20.52 20.50	Limit (dBm) 21.50 21.50
Tx Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1	512 1850.2 29.48 29.45 28.12	661 1880 29.50 29.48 28.13	810 1909.8 29.52 29.50 28.15	Limit (dBm) 30.50 30.50 28.50	512 1850.2 20.48 20.45 22.12	661 1880 20.50 20.48 22.13	810 1909.8 20.52 20.50 22.15	Limit (dBm) 21.50 21.50 22.50

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Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

Reduced Average RF Power (Hotspot Reduced Power)

Band GSM1900	Burst Average Power (dBm)			Tune-up	Frame-Av	Tune-up		
Tx Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM (GMSK, 1 Tx slot)	28.76	28.78	28.81	29.50	19.76	19.78	19.81	20.50
GPRS (GMSK, 1 Tx slot) – CS1	28.74	28.75	28.78	29.50	19.74	19.75	19.78	20.50
GPRS (GMSK, 2 Tx slots) – CS1	26.66	26.75	26.82	27.50	20.66	20.75	20.82	21.50
GPRS (GMSK, 3 Tx slots) – CS1	24.64	24.77	24.86	25.50	20.38	20.51	20.60	21.24
GPRS (GMSK, 4 Tx slots) – CS1	23.47	23.62	23.70	24.00	20.47	20.62	20.70	21.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

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<WCDMA Conducted Power>

Maximum Average RF Power (Full Power)

	Band	WC	DMA Bar	nd V	_	W	CDMA Band	II	T
TX	Channel	4132	4182	4233	Tune-up	9262	9400	9538	Tune-up Limit
R	Channel	4357	4407	4458	Limit (dBm)	9662	9800	9938	(dBm)
Frequ	uency (MHz)	826.4	836.4	846.6	(dDIII)	1852.4	1880	1907.6	(dDIII)
3GPP Rel 99	AMR 12.2Kbps	22.93	22.81	22.95	24.00	23.50	23.32	23.39	24.00
3GPP Rel 99	RMC 12.2Kbps	22.95	22.85	22.97	24.00	<mark>23.54</mark>	23.35	23.40	24.00
3GPP Rel 6	HSDPA Subtest-1	20.06	20.08	20.02	20.50	21.73	21.91	21.87	22.50
3GPP Rel 6	HSDPA Subtest-2	20.07	20.09	20.05	20.50	21.72	21.88	21.87	22.50
3GPP Rel 6	HSDPA Subtest-3	20.12	20.11	20.09	20.50	21.74	21.91	21.82	22.00
3GPP Rel 6	HSDPA Subtest-4	20.08	20.11	20.07	20.50	21.72	21.90	21.83	22.00
3GPP Rel 6	HSUPA Subtest-1	20.07	20.13	20.04	20.50	21.95	21.89	21.90	22.50
3GPP Rel 6	HSUPA Subtest-2	20.08	20.16	20.06	20.50	21.66	21.82	21.88	22.00
3GPP Rel 6	HSUPA Subtest-3	21.07	21.10	21.05	21.50	22.65	22.84	22.91	23.50
3GPP Rel 6	HSUPA Subtest-4	19.55	19.49	19.51	20.00	21.14	21.36	21.30	21.50
3GPP Rel 6	HSUPA Subtest-5	22.10	22.10	22.10	22.50	23.32	23.12	23.19	23.50

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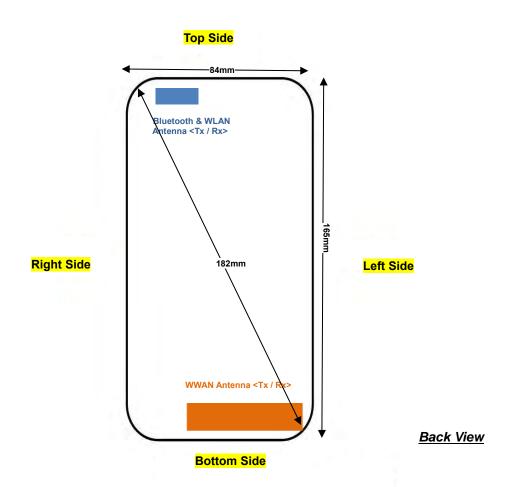
Reduced Average RF Power (Hotspot Reduced Power)

	Band		WCDMA Band II		
	TX Channel	9262	9400	9538	Tune-up
	Rx Channel	9662	9800	9938	Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	(ubiii)
3GPP Rel 99 AMR 12.2Kbps		20.63	20.40	20.53	21.00
3GPP Rel 99	RMC 12.2Kbps	<mark>20.65</mark>	20.43	20.55	21.00
3GPP Rel 6	HSDPA Subtest-1	18.71	18.87	18.87	19.00
3GPP Rel 6	HSDPA Subtest-2	18.69	18.86	18.87	19.00
3GPP Rel 6	HSDPA Subtest-3	18.71	18.88	18.89	19.00
3GPP Rel 6	HSDPA Subtest-4	18.70	18.87	18.87	19.00
3GPP Rel 6	HSUPA Subtest-1	18.72	18.88	18.86	19.00
3GPP Rel 6	HSUPA Subtest-2	18.60	18.84	18.82	19.00
3GPP Rel 6	HSUPA Subtest-3	19.69	19.81	19.90	20.50
3GPP Rel 6	HSUPA Subtest-4	18.15	18.33	18.35	18.50
3GPP Rel 6	HSUPA Subtest-5	20.39	20.18	20.21	20.50

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15. Antenna Location



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Distance of the Antenna to the EUT surface/edge							
	Antennas	Front	Top Side Bottom Side		Right Side	Left Side	
	WWAN Main ≤ 25mm		≤ 25mm	147mm	≤ 25mm	33mm	≤ 25mm
	BT&WLAN	≤ 25mm	≤ 25mm	≤ 25mm	156mm	≤ 25mm	63mm

Positions for SAR tests; Hotspot mode						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Main	Yes	Yes	No	Yes	No	Yes
BT&WLAN	Yes	Yes	Yes	No	Yes	No

General Note:

Referring to KDB 941225 D06 v02r01, when the overall device length and width are \geq 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

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16. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- d. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - · ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - \cdot ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 3. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
- 4. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
- 5. Per KDB 941225 D01v03r01, considering the possibility of e.g. 3rd party VoIP operation for Head and body-worn SAR test reduction for GSM and GPRS modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the EUT was set in GPRS (2Tx slots) for GSM850/GSM1900.
- 6. Per KDB 941225 D01v03r01, for Hotspot SAR test reduction for GPRS mode is determined by the source-based time-averaged output power including tune-up tolerance, for modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested, therefore, the EUT was set in GPRS (2Tx slots) for GSM850/GSM1900.
- 7. Per KDB 941225 D01v03r01, SAR for next to the ear head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 8. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR when EUT operating without power back-off for WCDMA Band V and operating with power back-off WCDMA Band II. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA
- 9. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- 10. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
- 11. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 12. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

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16.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#01	GSM850	GPRS(2 Tx slots)	Right Cheek	Off	189	836.4	31.29	32.00	1.178	-0.02	#1	0.270	<mark>0.318</mark>
	GSM850	GPRS(2 Tx slots)	Right Tilted	Off	189	836.4	31.29	32.00	1.178	-0.07	#1	0.124	0.146
	GSM850	GPRS(2 Tx slots)	Left Cheek	Off	189	836.4	31.29	32.00	1.178	-0.09	#1	0.205	0.241
	GSM850	GPRS(2 Tx slots)	Left Tilted	Off	189	836.4	31.29	32.00	1.178	0.07	#1	0.123	0.145
	GSM850	GPRS(2 Tx slots)	Right Cheek	Off	189	836.4	31.29	32.00	1.178	0.09	#2	0.250	0.294
	GSM1900	GPRS(2 Tx slots)	Right Cheek	Off	810	1909.8	28.43	28.50	1.016	0.15	#1	0.067	0.068
	GSM1900	GPRS(2 Tx slots)	Right Tilted	Off	810	1909.8	28.43	28.50	1.016	0.08	#1	0.062	0.063
#02	GSM1900	GPRS(2 Tx slots)	Left Cheek	Off	810	1909.8	28.43	28.50	1.016	-0.07	#1	0.108	0.110
	GSM1900	GPRS(2 Tx slots)	Left Tilted	Off	810	1909.8	28.43	28.50	1.016	-0.14	#1	0.051	0.052
	GSM1900	GPRS(2 Tx slots)	Left Cheek	Off	810	1909.8	28.43	28.50	1.016	-0.11	#2	0.103	0.105

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#03	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Off	4233	846.6	23.15	24.00	1.216	0.08	#1	0.189	0.230
	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Off	4233	846.6	23.15	24.00	1.216	-0.04	#1	0.087	0.106
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	Off	4233	846.6	23.15	24.00	1.216	-0.01	#1	0.147	0.179
	WCDMA Band V	RMC 12.2Kbps	Left Tilted	Off	4233	846.6	23.15	24.00	1.216	0.04	#1	0.088	0.107
	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Off	4233	846.6	23.15	24.00	1.216	-0.12	#2	0.178	0.216
	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Off	9262	1852.4	23.60	24.00	1.096	0.13	#1	0.115	0.126
	WCDMA Band II	RMC 12.2Kbps	Right Tilted	Off	9262	1852.4	23.60	24.00	1.096	0.16	#1	0.111	0.122
#04	WCDMA Band II	RMC 12.2Kbps	Left Cheek	Off	9262	1852.4	23.60	24.00	1.096	-0.09	#1	0.189	<mark>0.207</mark>
	WCDMA Band II	RMC 12.2Kbps	Left Tilted	Off	9262	1852.4	23.60	24.00	1.096	-0.16	#1	0.106	0.116
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	Off	9262	1852.4	23.60	24.00	1.096	-0.12	#2	0.187	0.205

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	11	2462	16.71	17.00	1.069	100	1.000	-0.09	#1	0.313	0.335
	WLAN 2.4GHz	802.11b 1Mbps	Right Tilted	11	2462	16.71	17.00	1.069	100	1.000	0.03	#1	0.301	0.322
#05	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	11	2462	16.71	17.00	1.069	100	1.000	-0.07	#1	0.879	0.940
	WLAN 2.4GHz	802.11b 1Mbps	Left Tilted	11	2462	16.71	17.00	1.069	100	1.000	-0.03	#1	0.627	0.670
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	1	2412	16.68	17.00	1.076	100	1.000	-0.02	#1	0.751	0.808
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	11	2462	16.71	17.00	1.069	100	1.000	-0.01	#2	0.765	0.818

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16.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(2 Tx slots)	Front	10	Off	189	836.4	31.29	32.00	1.178	0.09	#1	0.492	0.579
#06	GSM850	GPRS(2 Tx slots)	Back	10	Off	189	836.4	31.29	32.00	1.178	0.04	#1	0.587	<mark>0.691</mark>
	GSM850	GPRS(2 Tx slots)	Left Side	10	Off	189	836.4	31.29	32.00	1.178	0.06	#1	0.143	0.168
	GSM850	GPRS(2 Tx slots)	Bottom Side	10	Off	189	836.4	31.29	32.00	1.178	0.08	#1	0.241	0.284
	GSM850	GPRS(2 Tx slots)	Back	10	Off	189	836.4	31.29	32.00	1.178	-0.16	#2	0.557	0.656
	GSM1900	GPRS(2 Tx slots)	Front	10	Off	810	1909.8	28.43	28.50	1.016	-0.06	#1	0.880	0.894
	GSM1900	GPRS(2 Tx slots)	Back	10	Off	810	1909.8	28.43	28.50	1.016	-0.03	#1	0.762	0.774
	GSM1900	GPRS(2 Tx slots)	Left Side	10	Off	810	1909.8	28.43	28.50	1.016	-0.09	#1	0.097	0.099
#07	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	Off	810	1909.8	28.43	28.50	1.016	-0.03	#1	1.240	1.260
	GSM1900	GPRS(2 Tx slots)	Front	10	Off	512	1850.2	28.34	28.50	1.038	-0.05	#1	0.823	0.854
	GSM1900	GPRS(2 Tx slots)	Front	10	Off	661	1880	28.39	28.50	1.026	-0.11	#1	0.827	0.848
	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	Off	512	1850.2	28.34	28.50	1.038	-0.16	#1	0.954	0.990
	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	Off	661	1880	28.39	28.50	1.026	-0.02	#1	1.060	1.087
	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	Off	810	1909.8	28.43	28.50	1.016	-0.02	#2	1.220	1.240

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC12.2Kbps	Front	10	Off	4233	846.6	23.15	24.00	1.216	-0.03	#1	0.354	0.431
#08	WCDMA Band V	RMC12.2Kbps	Back	10	Off	4233	846.6	23.15	24.00	1.216	0.03	#1	0.405	0.493
	WCDMA Band V	RMC12.2Kbps	Left Side	10	Off	4233	846.6	23.15	24.00	1.216	-0.08	#1	0.081	0.099
	WCDMA Band V	RMC12.2Kbps	Bottom Side	10	Off	4233	846.6	23.15	24.00	1.216	-0.04	#1	0.161	0.196
	WCDMA Band V	RMC12.2Kbps	Back	10	Off	4233	846.6	23.15	24.00	1.216	0.04	#2	0.401	0.488
	WCDMA Band II	RMC12.2Kbps	Front	10	On	9262	1852.4	20.78	21.00	1.052	0.12	#1	0.630	0.663
	WCDMA Band II	RMC12.2Kbps	Back	10	On	9262	1852.4	20.78	21.00	1.052	-0.01	#1	0.505	0.531
	WCDMA Band II	RMC12.2Kbps	Left Side	10	On	9262	1852.4	20.78	21.00	1.052	0.13	#1	0.099	0.104
#09	WCDMA Band II	RMC12.2Kbps	Bottom Side	10	On	9262	1852.4	20.78	21.00	1.052	-0.11	#1	0.734	0.772
	WCDMA Band II	RMC12.2Kbps	Bottom Side	10	On	9262	1852.4	20.78	21.00	1.052	-0.07	#2	0.711	0.748

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Front	10	11	2462	16.71	17.00	1.069	100	1.000	0.02	#1	0.157	0.168
#10	WLAN 2.4GHz	802.11b 1Mbps	Back	10	11	2462	16.71	17.00	1.069	100	1.000	-0.08	#1	0.378	<mark>0.404</mark>
	WLAN 2.4GHz	802.11b 1Mbps	Right Side	10	11	2462	16.71	17.00	1.069	100	1.000	0.05	#1	0.170	0.182
	WLAN 2.4GHz	802.11b 1Mbps	Top Side	10	11	2462	16.71	17.00	1.069	100	1.000	-0.09	#1	0.114	0.122
	WLAN 2.4GHz	802.11b 1Mbps	Back	10	11	2462	16.71	17.00	1.069	100	1.000	0.05	#2	0.308	0.329

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16.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(2 Tx slots)	Front	15	Off	189	836.4	31.29	32.00	1.178	-0.03	#1	0.298	0.351
#11	GSM850	GPRS(2 Tx slots)	Back	15	Off	189	836.4	31.29	32.00	1.178	0.06	#1	0.389	<mark>0.458</mark>
	GSM850	GPRS(2 Tx slots)	Back	15	Off	189	836.4	31.29	32.00	1.178	-0.06	#2	0.384	0.452
	GSM1900	GPRS(2 Tx slots)	Front	15	Off	810	1909.8	28.43	28.50	1.016	-0.03	#1	0.392	0.398
#12	GSM1900	GPRS(2 Tx slots)	Back	15	Off	810	1909.8	28.43	28.50	1.016	-0.06	#1	0.434	0.441
	GSM1900	GPRS(2 Tx slots)	Back	15	Off	810	1909.8	28.43	28.50	1.016	-0.04	#2	0.399	0.405

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC12.2Kbps	Front	15	Off	4233	846.6	23.15	24.00	1.216	-0.05	#1	0.217	0.264
#13	WCDMA Band V	RMC12.2Kbps	Back	15	Off	4233	846.6	23.15	24.00	1.216	0.03	#1	0.280	0.341
	WCDMA Band V	RMC12.2Kbps	Back	15	Off	4233	846.6	23.15	24.00	1.216	-0.01	#2	0.277	0.337
#14	WCDMA Band II	RMC12.2Kbps	Front	15	Off	9262	1852.4	23.60	24.00	1.096	-0.12	#1	0.578	<mark>0.634</mark>
	WCDMA Band II	RMC12.2Kbps	Back	15	Off	9262	1852.4	23.60	24.00	1.096	0.01	#1	0.535	0.587
	WCDMA Band II	RMC12.2Kbps	Front	15	Off	9262	1852.4	23.60	24.00	1.096	-0.13	#2	0.545	0.598

<WLAN SAR>

	Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		WLAN 2.4GHz	802.11b 1Mbps	Front	15	11	2462	16.71	17.00	1.069	100	1.000	0.04	#1	0.101	0.108
7	‡ 15	WLAN 2.4GHz	802.11b 1Mbps	Back	15	11	2462	16.71	17.00	1.069	100	1.000	-0.05	#1	0.137	<mark>0.146</mark>
		WLAN 2.4GHz	802.11b 1Mbps	Back	15	11	2462	16.71	17.00	1.069	100	1.000	-0.08	#2	0.127	0.136

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16.4 Extremity SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
#16	GSM1900	GPRS(2 Tx slots)	Bottom Side	0	Off	810	1909.8	28.43	28.50	1.016	-0.01	#1	2.500	2.541
	GSM1900	GPRS(2 Tx slots)	Bottom Side	0	Off	512	1850.2	28.34	28.50	1.038	-0.04	#1	1.890	1.961
	GSM1900	GPRS(2 Tx slots)	Bottom Side	0	Off	661	1880	28.39	28.50	1.026	-0.01	#1	2.100	2.154
	GSM1900	GPRS(2 Tx slots)	Bottom Side	0	Off	810	1909.8	28.43	28.50	1.016	-0.03	#2	2.410	2.449

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9262	1852.4	23.60	24.00	1.096	-0.09	#1	3.310	3.629
#17	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9400	1880	23.46	24.00	1.132	-0.06	#1	3.380	3.828
	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9538	1907.6	23.55	24.00	1.109	-0.07	#1	3.430	3.804
	WCDMA Band II	RMC12.2Kbps	Bottom Side	0	Off	9262	1852.4	23.60	24.00	1.096	-0.17	#1	2.720	2.982
	WCDMA Band II	RMC12.2Kbps	Bottom Side	0	Off	9400	1880	23.46	24.00	1.132	-0.14	#1	3.000	3.397
	WCDMA Band II	RMC12.2Kbps	Bottom Side	0	Off	9538	1907.6	23.55	24.00	1.109	-0.11	#1	3.320	3.682
	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9400	1880	23.46	24.00	1.132	-0.07	#2	3.340	3.782

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17. Spot Check SAR Test Results

17.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#01-1	GSM850	GPRS(2 Tx slots)	Right Cheek	Off	189	836.4	30.85	32.00	1.303	-0.11	#1	0.287	<mark>0.374</mark>
#02-1	GSM1900	GPRS(2 Tx slots)	Left Cheek	Off	810	1909.8	28.15	28.50	1.084	-0.13	#1	0.117	0.127

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#03-1	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Off	4233	846.6	22.97	24.00	1.268	0.06	#1	0.199	0.252
#04-1	WCDMA Band	RMC 12.2Kbps	Left Cheek	Off	9262	1852.4	23.54	24.00	1.112	-0.05	#1	0.198	0.220

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#05-1	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	11	2462	16.71	17.00	1.069	100	1.000	-0.03	#1	0.769	0.822
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	1	2412	16.68	17.00	1.076	100	1.000	-0.14	#1	0.670	0.721

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17.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#06-1	GSM850	GPRS(2 Tx slots)	Back	10	Off	189	836.4	30.85	32.00	1.303	0.05	#1	0.596	<mark>0.777</mark>
	GSM1900	GPRS(2 Tx slots)	Front	10	On	810	1909.8	26.82	27.50	1.169	0.02	#1	0.625	0.731
	GSM1900	GPRS(2 Tx slots)	Back	10	On	810	1909.8	26.82	27.50	1.169	-0.08	#1	0.723	0.846
	GSM1900	GPRS(2 Tx slots)	Left Side	10	On	810	1909.8	26.82	27.50	1.169	0.03	#1	0.072	0.084
#07-1	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	On	810	1909.8	26.82	27.50	1.169	0.05	#1	0.936	1.095
	GSM1900	GPRS(2 Tx slots)	Back	10	On	512	1850.2	26.66	27.50	1.213	0.02	#1	0.515	0.625
	GSM1900	GPRS(2 Tx slots)	Back	10	On	661	1880	26.75	27.50	1.189	-0.04	#1	0.591	0.702
	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	On	512	1850.2	26.66	27.50	1.213	-0.04	#1	0.754	0.915
	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	On	661	1880	26.75	27.50	1.189	-0.06	#1	0.824	0.979
	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	On	810	1909.8	26.82	27.50	1.169	0.11	#2	0.921	1.077

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#08-1	WCDMA Band V	RMC 12.2Kbps	Back	10	Off	4233	846.6	22.97	24.00	1.268	0.04	#1	0.417	0.529
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	On	9262	1852.4	20.65	21.00	1.084	-0.06	#1	0.774	0.839
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	On	9400	1880	20.43	21.00	1.140	-0.12	#1	0.829	0.945
#09-1	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	On	9538	1907.6	20.55	21.00	1.109	0.01	#1	0.974	1.080

<WLAN SAR>

 Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#10-1	WLAN 2.4GHz	802.11b 1Mbps	Back	10	11	2462	16.71	17.00	1.069	100	1.000	-0.08	#1	0.365	<mark>0.390</mark>

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17.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#11-1	GSM850	GPRS(2 Tx slots)	Back	15	Off	189	836.4	30.85	32.00	1.303	0.18	#1	0.407	0.530
#12-1	GSM1900	GPRS(2 Tx slots)	Back	15	Off	810	1909.8	28.15	28.50	1.084	-0.04	#1	0.385	0.417

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#13-1	WCDMA Band V	RMC12.2Kbps	Back	15	Off	4233	846.6	22.97	24.00	1.268	0.03	#1	0.289	0.366
#14-1	WCDMA Band II	RMC12.2Kbps	Front	15	Off	9262	1852.4	23.54	24.00	1.112	-0.16	#1	0.570	<mark>0.634</mark>

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	(dB)	Battery	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#15-1	WLAN 2.4GHz	802.11b 1Mbps	Back	15	11	2462	16.71	17.00	1.069	100	1.000	-0.01	#1	0.162	<mark>0.173</mark>

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17.4 Extremity SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
#16-1	GSM1900	GPRS(2 Tx slots)	Bottom Side	0	Off	810	1909.8	28.15	28.50	1.084	-0.12	#1	2.700	<mark>2.927</mark>
	GSM1900	GPRS(2 Tx slots)	Bottom Side	0	Off	512	1850.2	28.12	28.50	1.091	-0.11	#1	2.240	2.445
	GSM1900	GPRS(2 Tx slots)	Bottom Side	0	Off	661	1880	28.13	28.50	1.089	-0.13	#1	2.470	2.690

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Battery	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
#17-	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9538	1907.6	23.40	24.00	1.148	0.1	#1	3.400	<mark>3.904</mark>
	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9262	1852.4	23.54	24.00	1.112	-0.01	#1	3.300	3.669
	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9400	1880	23.35	24.00	1.161	-0.05	#1	2.870	3.333
	WCDMA Band II	RMC12.2Kbps	Bottom Side	0	Off	9538	1907.6	23.40	24.00	1.148	-0.11	#1	3.200	3.674
	WCDMA Band II	RMC12.2Kbps	Bottom Side	0	Off	9262	1852.4	23.54	24.00	1.112	-0.17	#1	2.930	3.257
	WCDMA Band II	RMC12.2Kbps	Bottom Side	0	Off	9400	1880	23.35	24.00	1.161	-0.11	#1	3.160	3.670

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17.5 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Power Back-off	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Battery	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0	-	11	2462	16.71	17.00	1.069	100	1.000	-0.07	#1	0.879	1	0.940
2nd	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0	-	11	2462	16.71	17.00	1.069	100	1.000	-0.12	#1	0.875	1.005	0.935
1st	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	Off	810	1909.8	28.43	28.50	1.016	100	1.000	-0.03	#1	1.240	1	1.260
2nd	GSM1900	GPRS(2 Tx slots)	Bottom Side	10	Off	810	1909.8	28.43	28.50	1.016	100	1.000	-0.01	#1	1.190	1.042	1.209

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No.	Band	Mode	Test Position	Gap (mm)	Power Back-off	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor			Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9538	1907.6	23.55	24.00	1.109	-0.07	#1	3.430	1	3.804
2nd	WCDMA Band II	RMC12.2Kbps	Front	0	Off	9538	1907.6	23.55	24.00	1.109	-0.14	#1	3.410	1.006	3.782

General Note:

- 1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- 4. The ratio is the difference in percentage between original and repeated measured SAR.
- 5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

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18. Simultaneous Transmission Analysis

NO	Simultaneous Transmission Configurations	Р	ortable Handse	Note	
NO.		Head	Body-worn	Hotspot	Note
1.	GSM Voice + WLAN2.4GHz	Yes	Yes		
2.	GPRS + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
3.	WCDMA + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
4.	GSM Voice + Bluetooth	Yes	Yes		
5.	GPRS + Bluetooth	Yes	Yes		WWAN VoIP
6.	WCDMA+ Bluetooth	Yes	Yes		WWAN VoIP

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General Note:

- 1. This device supported VoIP in GPRS and WCDMA (e.g. 3rd party VoIP).
- 2. EUT will choose either GSM or WCDMA according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 3. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
- 4. The reported SAR summation is calculated based on the same configuration and test position.
- 5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) SPLSR = $(SAR_1 + SAR_2)^{1.5} / (min. separation distance, mm)$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
- For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v06 based on the formula below.
 - i) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)/x}$] W/kg for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
 - ii) When the minimum separation distance is < 5mm, the distance is used 5mm to determine SAR test exclusion.
 - iii) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.

Bluetooth	Exposure Position	Head	Body worn
Max Power	Test separation	0mm	15mm
5.00 dBm	Estimated SAR (W/kg)	0.126 W/kg	0.042W/kg

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18.1 Head Exposure Conditions

<WWAN + WLAN>

<vvvan +="" th="" v<=""><th></th><th></th><th>WWAN</th><th>WLAN</th><th>Summed</th><th></th><th></th></vvvan>			WWAN	WLAN	Summed		
WWA	AN Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.374	0.335	0.71		
	GSM850	Right Tilted	0.146	0.322	0.47		
	GSIVIOSU	Left Cheek	0.241	0.940	1.18		
GSM		Left Tilted	0.145	0.670	0.82		
GSIVI	GSM1900	Right Cheek	0.068	0.335	0.40		
		Right Tilted	0.063	0.322	0.39		
		Left Cheek	0.127	0.940	1.07		
		Left Tilted	0.052	0.670	0.72		
	DandV	Right Cheek	0.252	0.335	0.59		
		Right Tilted	0.106	0.322	0.43		
	Band V	Left Cheek	0.179	0.940	1.12		
WCDMA		Left Tilted	0.107	0.670	0.78		
VVCDIVIA		Right Cheek	0.126	0.335	0.46		
	Donal II	Right Tilted	0.122	0.322	0.44		
	Band II	Left Cheek	0.220	0.940	1.16		
		Left Tilted	0.116	0.670	0.79		

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<WWAN + Bluetooth>

			WWAN	Bluetooth	Summed		
WWA	AN Band	Exposure Position	Max. WWAN SAR (W/kg)	Estimated 1g SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.374	0.126	0.50		
	GSM850	Right Tilted	0.146	0.126	0.27		
	GSIVIOSO	Left Cheek	0.241	0.126	0.37		
GSM		Left Tilted	0.145	0.126	0.27		
GSIVI	GSM1900	Right Cheek	0.068	0.126	0.19		
		Right Tilted	0.063	0.126	0.19		
		Left Cheek	0.127	0.126	0.25		
		Left Tilted	0.052	0.126	0.18		
	Band V	Right Cheek	0.252	0.126	0.38		
		Right Tilted	0.106	0.126	0.23		
		Left Cheek	0.179	0.126	0.31		
WCDMA		Left Tilted	0.107	0.126	0.23		
VVCDIVIA		Right Cheek	0.126	0.126	0.25		
	Band II	Right Tilted	0.122	0.126	0.25		
	DailU II	Left Cheek	0.220	0.126	0.35		
		Left Tilted	0.116	0.126	0.24		

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18.2 Hotspot Exposure Conditions

<WWAN + WLAN 2.4GHz>

	F WLAN 2.40		WWAN	WLAN	Summed		
WWA	AN Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.579	0.168	0.75		
		Back	0.777	0.404	1.18		
	GSM850	Left side	0.168		0.17		
	GSIVIOSU	Right side		0.182	0.18		
		Top side		0.122	0.12		
GSM		Bottom side	0.284		0.28		
GSIVI		Front	0.731	0.168	0.90		
		Back	0.846	0.404	<mark>1.25</mark>		
	GSM1900	Left side	0.084		0.08		
		Right side		0.182	0.18		
		Top side		0.122	0.12		
		Bottom side	1.095		1.10		
		Front	0.431	0.168	0.60		
		Back	0.529	0.404	0.93		
	Band V	Left side	0.099		0.10		
	Band v	Right side		0.182	0.18		
		Top side		0.122	0.12		
MODMA		Bottom side	0.196		0.20		
WCDMA		Front	0.663	0.168	0.83		
		Back	0.531	0.404	0.94		
	Daniel V	Left side	0.104		0.10		
	Band II	Right side		0.182	0.18		
		Top side		0.122	0.12		
		Bottom side	1.080		1.08		

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18.3 Body-Worn Accessory Exposure Conditions

<WWAN + WLAN 2.4GHz>

			WWAN	WLAN	Summed		
WWAN Band		Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
0014050	GSM850	Front	0.351	0.108	0.46		
GSM	GSIVIOSO	Back	0.530	0.173	0.70		
GSIVI	GSM1900	Front	0.398	0.108	0.51		
		Back	0.441	0.173	0.61		
	Band V	Front	0.264	0.108	0.37		
WCDMA	Dallu V	Back	0.366	0.173	0.54		
	Band II	Front	0.634	0.108	0.74		
		Back	0.587	0.173	0.76		

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<WWAN + Bluetooth>

WWAN Band			WWAN	Bluetooth	Summed		
		Exposure Position Max. WWAN SA (W/kg)		Estimated 1g SAR (W/kg)	SAR	SPLSR	Case No
	GSM850	Front	0.351	0.042	0.39		
GSM	GSIVIOSU	Back	0.530	0.042	0.57		
GSIVI	GSM1900	Front	0.398	0.042	0.44		
		Back	0.441	0.042	0.48		
	Band V	Front	0.264	0.042	0.31		
WCDMA	Dallu V	Back	0.366	0.042	0.41		
WCDIVIA	Band II	Front	0.634	0.042	0.68		
		Back	0.587	0.042	0.63		

Test Engineer: Luke Lu

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19. Uncertainty Assessment

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

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A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) κ is the coverage factor

Table 19.1. Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	6.0	N	1	1	1	6.0	6.0
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6
Linearity	4.7	R	1.732	1	1	2.7	2.7
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6
Modulation Response	3.2	R	1.732	1	1	1.8	1.8
Readout Electronics	0.3	N	1	1	1	0.3	0.3
Response Time	0.0	R	1.732	1	1	0.0	0.0
Integration Time	2.6	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2
Test Sample Related							
Device Positioning	3.0	N	1	1	1	3.0	3.0
Device Holder	3.6	N	1	1	1	3.6	3.6
Power Drift	5.0	R	1.732	1	1	2.9	2.9
Power Scaling	0.0	R	1.732	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0
Temp. unc Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4
Temp. unc Permittivity	Temp. unc Permittivity 0.83 R 1.732 0.23 0.26						0.1
Cor	nbined Std. Ur	certainty				11.4%	11.4%
Co	verage Factor	for 95 %				K=2	K=2
Exp	anded STD Ur	certainty				22.9%	22.7%

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Table 19.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

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20. References

[1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"

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- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- SPEAG DASY System Handbook. [4]
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015 [8]
- [9] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [10] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug
- [11] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.

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Appendix A. Plots of System Performance Check

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The plots are shown as follows.

SPORTON INTERNATIONAL (SHENZHEN) INC.

#System Check Head 835MHz 151226

DUT: D835V2-SN:4d200

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835_151226 Medium parameters used: f = 835 MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 40.749$; $\rho = 0.902$ S/m; $\epsilon_r = 40.749$; $\epsilon_r = 40.749$

Date: 2015.12.26

 1000 kg/m^3

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.41, 9.41, 9.41); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.90 W/kg

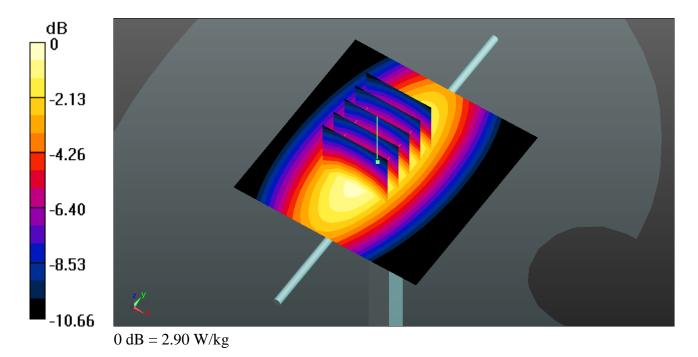
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.79 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.36 W/kg

SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 2.90 W/kg



#System Check Head 1900MHz 151227

DUT: D1900V2-SN:5d210

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_151227 Medium parameters used: f = 1900 MHz; $\sigma = 1.457$ S/m; $\epsilon_r = 39.135$; ρ

Date: 2015.12.27

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.79, 7.79, 7.79); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 15.6 W/kg

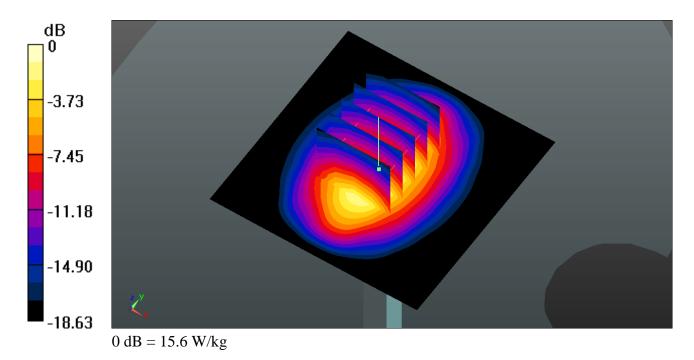
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 105.2 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 19.9 W/kg

SAR(1 g) = 10.8 W/kg; SAR(10 g) = 5.56 W/kg

Maximum value of SAR (measured) = 15.3 W/kg



#System Check_Head_2450MHz_151229

DUT: D2450V2-SN:926

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450_151229 Medium parameters used: f = 2450 MHz; σ = 1.82 S/m; ϵ_r = 39.753; ρ

Date: 2015.12.29

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.24, 7.24, 7.24); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 18.9 W/kg

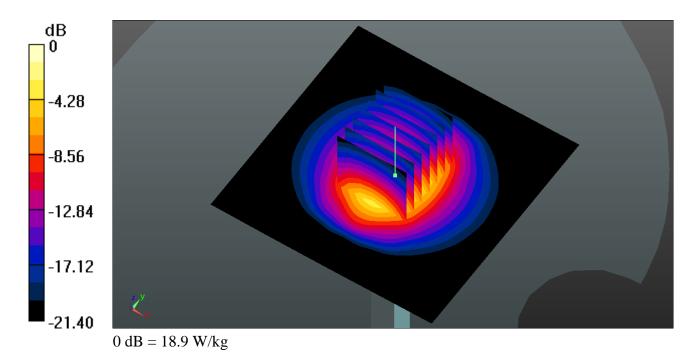
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.45 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 25.1 W/kg

SAR(1 g) = 12.3 W/kg; SAR(10 g) = 5.79 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



#System Check Body 835MHz 151226

DUT: D835V2-SN:4d200

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL_835_151226 Medium parameters used: f = 835 MHz; $\sigma = 0.972$ S/m; $\epsilon_r = 53.975$; $\rho = 0.972$ S/m; $\epsilon_r = 53.975$; $\epsilon_r = 53.975$

Date: 2015.12.26

 1000 kg/m^3

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

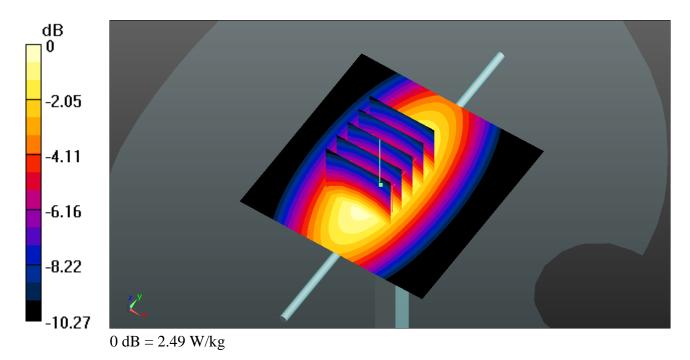
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.49 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 50.49 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 3.38 W/kg SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



#System Check_Body_1900MHz_151228

DUT: D1900V2-SN:5d210

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151228 Medium parameters used: f=1900 MHz; $\sigma=1.548$ S/m; $\epsilon_r=54.595$; $\rho=1.548$ Medium: $\epsilon_r=54.595$

Date: 2015.12.28

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

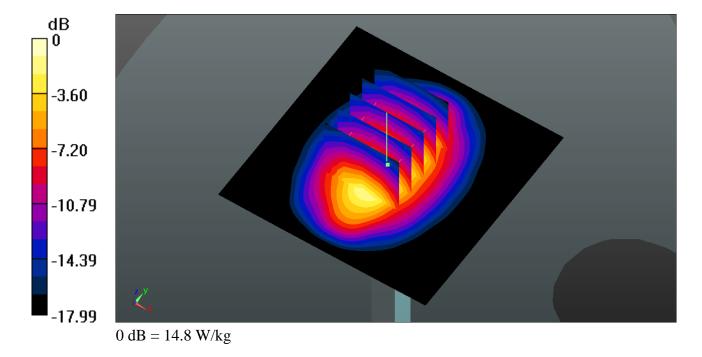
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.8 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 86.90 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.38 W/kgMaximum value of SAR (measured) = 14.5 W/kg



System Check_Body_1900MHz_160105

DUT: D1900V2-SN:5d210

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_160105 Medium parameters used: f = 1900 MHz; $\sigma = 1.501$ S/m; $\epsilon_r = 54.273$; ρ

Date: 2016.01.05

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 17.6 W/kg

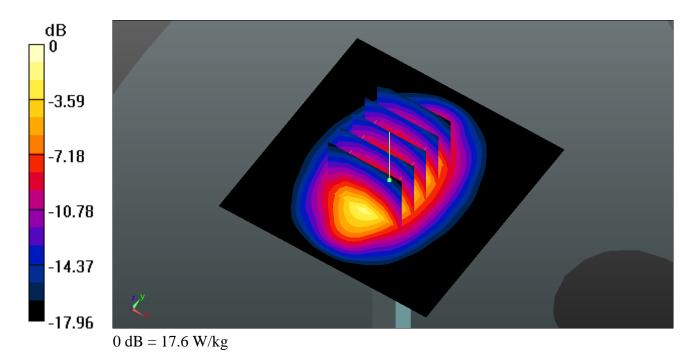
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.13 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 22.3 W/kg

SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.43 W/kg

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



#System Check Body 2450MHz 151229

DUT: D2450V2-SN:926

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL_2450_151229 Medium parameters used: f = 2450 MHz; $\sigma = 1.938$ S/m; $\epsilon_r = 51.276$; ρ

Date: 2015.12.29

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.08, 7.08, 7.08); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 21.6 W/kg

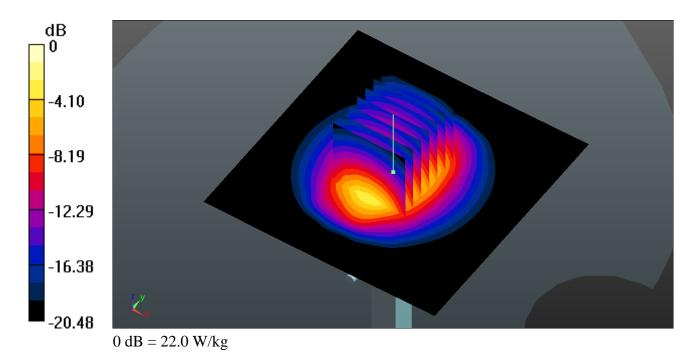
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.30 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 28.8 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.38 W/kg

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



Appendix B. Plots of High SAR Measurement

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The plots are shown as follows.

SPORTON INTERNATIONAL (SHENZHEN) INC.

#01 GSM850 GPRS(2 Tx slots) Right Cheek Ch189

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 836.4 MHz; Duty Cycle: 1:4.15 Medium: HSL_835_151226 Medium parameters used: f = 836.5 MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Date: 2015.12.26

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

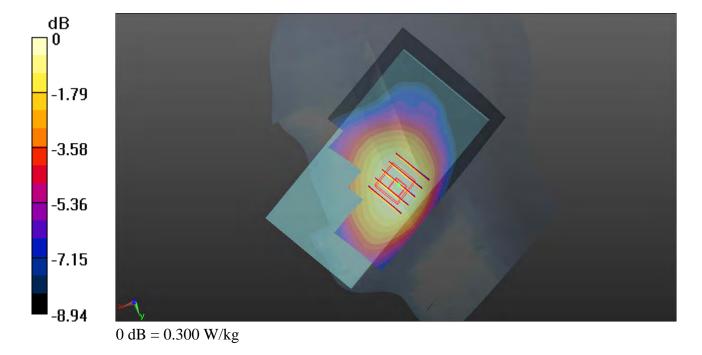
- Probe: EX3DV4 SN3819; ConvF(9.41, 9.41, 9.41); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.300 W/kg

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.404 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.326 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.212 W/kgMaximum value of SAR (measured) = 0.302 W/kg



#02 GSM1900 GPRS(2 Tx slots) Left Cheek Ch810

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.15 Medium: HSL_1900_151227 Medium parameters used: f = 1910 MHz; σ = 1.466 S/m; ϵ_r = 39.079; ρ

Date: 2015.12.27

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.79, 7.79, 7.79); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.132 W/kg

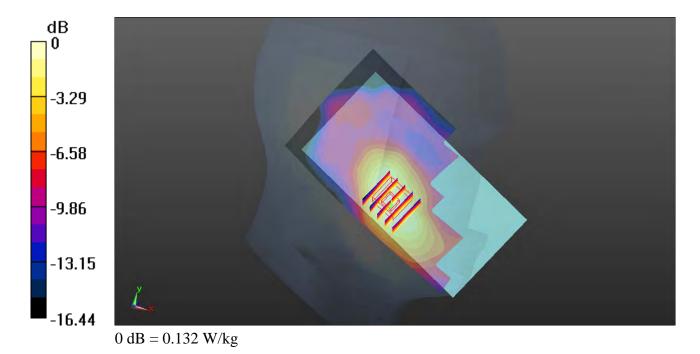
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.294 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.134 W/kg



#03 WCDMA Band V RMC 12.2Kbps Right Cheek Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL_835_151226 Medium parameters used: f = 846.6 MHz; $\sigma = 0.911$ S/m; $\varepsilon_r = 40.638$; ρ

Date: 2015.12.26

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.41, 9.41, 9.41); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.210 W/kg

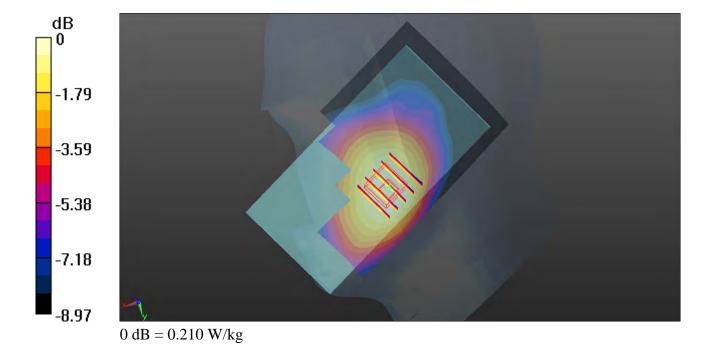
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.290 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.212 W/kg



Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL_1900_151227 Medium parameters used: f = 1852.4 MHz; $\sigma = 1.404$ S/m; $\varepsilon_r = 39.34$; ρ

Date: 2015.12.27

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.79, 7.79, 7.79); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.239 W/kg

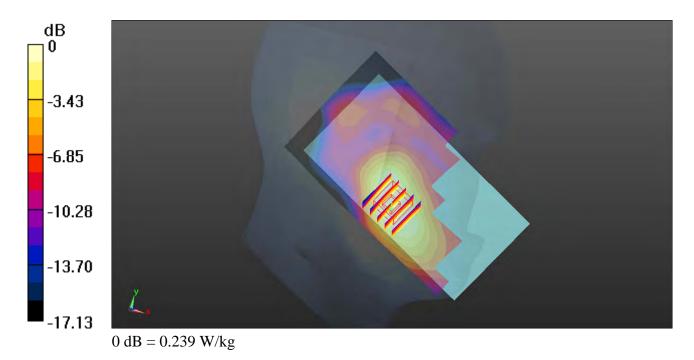
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.064 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.236 W/kg



#05_WLAN2.4GHz_802.11b 1Mbps_Left Cheek_Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL_2450_151229 Medium parameters used: f = 2462 MHz; $\sigma = 1.833$ S/m; $\varepsilon_r = 39.712$; ρ

Date: 2015.12.29

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.24, 7.24, 7.24); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x161x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 1.36 W/kg

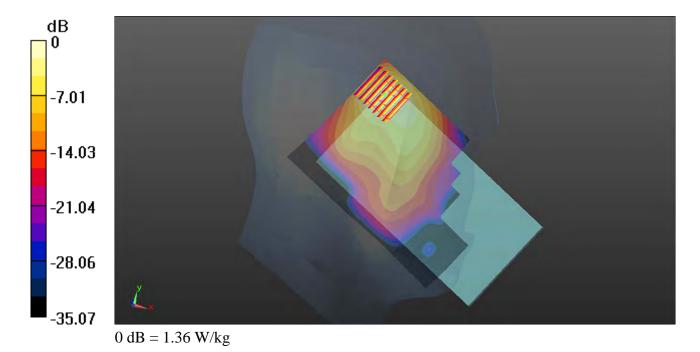
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.804 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.879 W/kg; SAR(10 g) = 0.427 W/kg

Maximum value of SAR (measured) = 1.30 W/kg



#06_GSM850_GPRS(2 Tx slots)_Back_10mm_Ch189

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 836.4 MHz; Duty Cycle: 1:4.15 Medium: MSL_835_151226 Medium parameters used: f = 836.4 MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 53.962$; $\rho = 0.974$ S/m; $\epsilon_r = 0.974$ S/m;

Date: 2015.12.26

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.776 W/kg

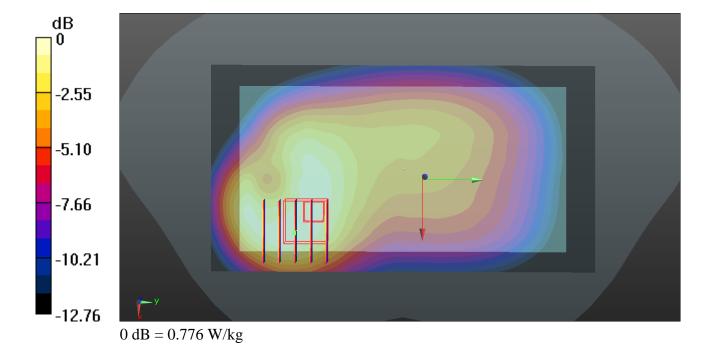
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.662 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.932 W/kg

SAR(1 g) = 0.587 W/kg; SAR(10 g) = 0.375 W/kg

Maximum value of SAR (measured) = 0.752 W/kg



#07 GSM1900 GPRS(2 Tx slots) Bottom Side 10mm Ch810

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.15 Medium: MSL_1900_151228 Medium parameters used: f=1909.8 MHz; $\sigma=1.559$ S/m; $\epsilon_r=54.548$; $\rho=1.559$ S/m; $\epsilon_r=54.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; ϵ

Date: 2015.12.28

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.73 W/kg

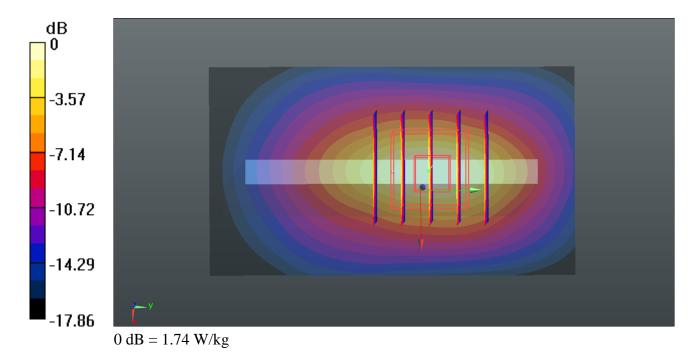
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.138 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.637 W/kg

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



#08 WCDMA Band V RMC 12.2Kbps Back 10mm Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: MSL_835_151226 Medium parameters used: f = 846.6 MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 53.865$; $\rho = 0.985$ S/m; $\epsilon_r = 53.865$; $\epsilon_r = 53.8$

Date: 2015.12.26

 1000 kg/m^3

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.537 W/kg

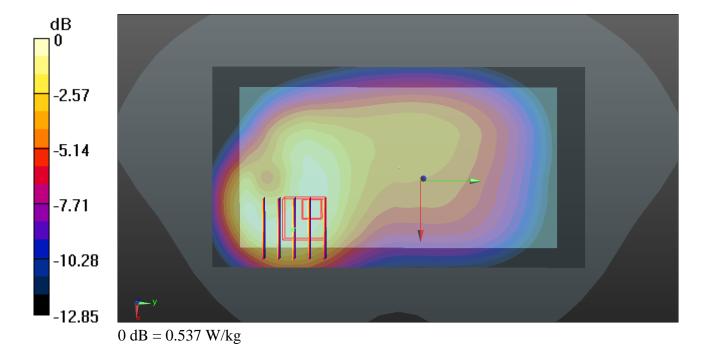
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.311 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 0.521 W/kg



Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151228 Medium parameters used: f = 1852.4 MHz; $\sigma = 1.494$ S/m; $\varepsilon_r = 54.729$;

Date: 2015.12.28

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm

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

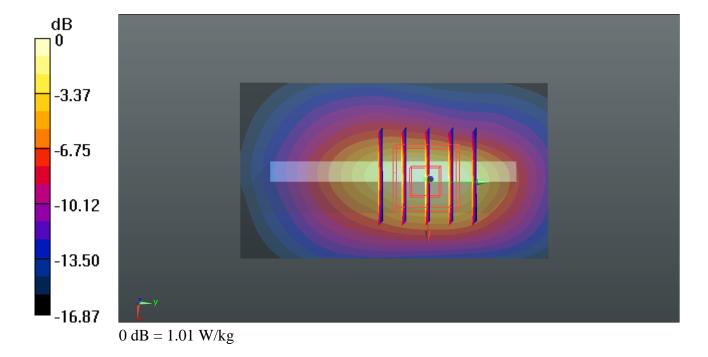
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.809 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.734 W/kg; SAR(10 g) = 0.386 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



#10 WLAN2.4GHz 802.11b 1Mbps Back 10mm Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL_2450_151229 Medium parameters used: f = 2462 MHz; $\sigma = 1.958$ S/m; $\varepsilon_r = 51.184$; ρ

Date: 2015.12.29

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.08, 7.08, 7.08); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x161x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.582 W/kg

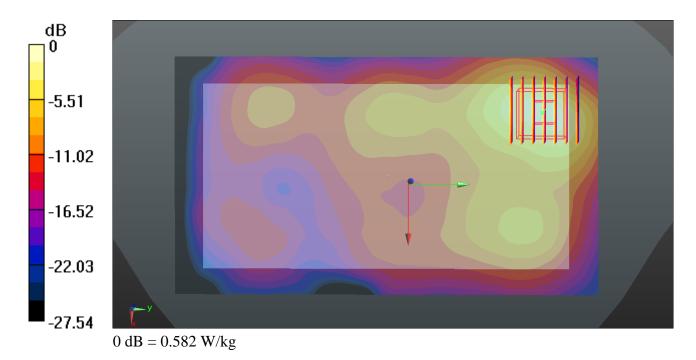
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.4180 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.804 W/kg

SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.570 W/kg



#11_GSM850_GPRS(2 Tx slots)_Back_15mm_Ch189

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 836.4 MHz; Duty Cycle: 1:4.15 Medium: MSL_835_151226 Medium parameters used: f = 836.4 MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 53.962$; ρ

Date: 2015.12.26

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.467 W/kg

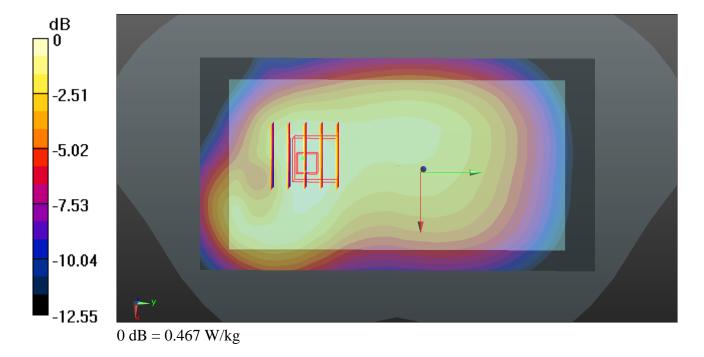
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.894 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.523 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.283 W/kg

Maximum value of SAR (measured) = 0.461 W/kg



#12 GSM1900 GPRS(2 Tx slots) Back 15mm Ch810

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.15 Medium: MSL_1900_151228 Medium parameters used: f = 1909.8 MHz; σ = 1.559 S/m; ϵ_r = 54.548; ρ

Date: 2015.12.28

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.559 W/kg

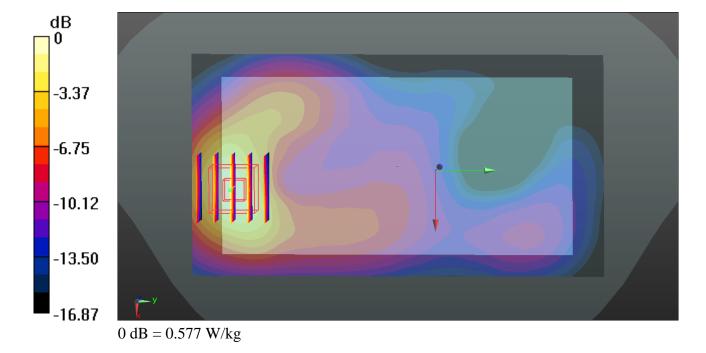
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.139 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.707 W/kg

SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.245 W/kg

Maximum value of SAR (measured) = 0.577 W/kg



#13 WCDMA Band V RMC 12.2Kbps Back 15mm Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: MSL_835_151226 Medium parameters used: f = 846.6 MHz; $\sigma = 0.985$ S/m; $\varepsilon_r = 53.865$; $\rho = 0.985$ S/m; $\varepsilon_r = 0$

Date: 2015.12.26

 1000 kg/m^3

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.334 W/kg

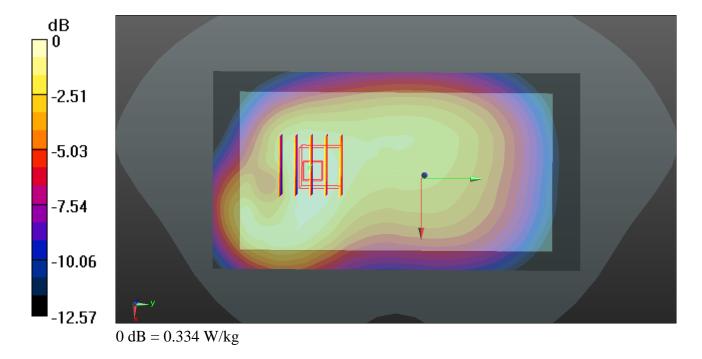
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.694 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.201 W/kg

Maximum value of SAR (measured) = 0.331 W/kg



Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151228 Medium parameters used: f = 1852.4 MHz; $\sigma = 1.494$ S/m; $\varepsilon_r = 54.729$;

Date: 2015.12.28

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.762 W/kg

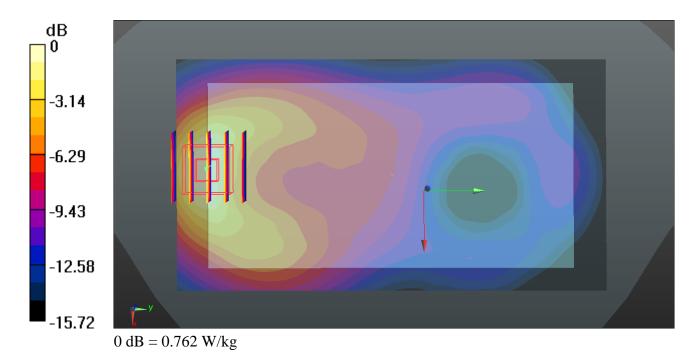
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.004 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.933 W/kg

SAR(1 g) = 0.578 W/kg; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 0.774 W/kg



#15 WLAN2.4GHz 802.11b 1Mbps Back 15mm Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL_2450_151229 Medium parameters used: f = 2462 MHz; $\sigma = 1.958$ S/m; $\varepsilon_r = 51.184$; ρ

Date: 2015.12.29

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.08, 7.08, 7.08); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x161x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.200 W/kg

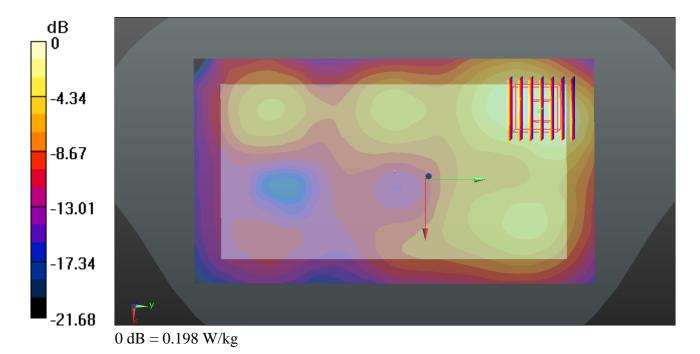
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.833 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.074 W/kg

Maximum value of SAR (measured) = 0.198 W/kg



Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.15 Medium: MSL_1900_151228 Medium parameters used: f=1909.8 MHz; $\sigma=1.559$ S/m; $\epsilon_r=54.548$; $\rho=1.559$ S/m; $\epsilon_r=54.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; ϵ

Date: 2015.12.28

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm

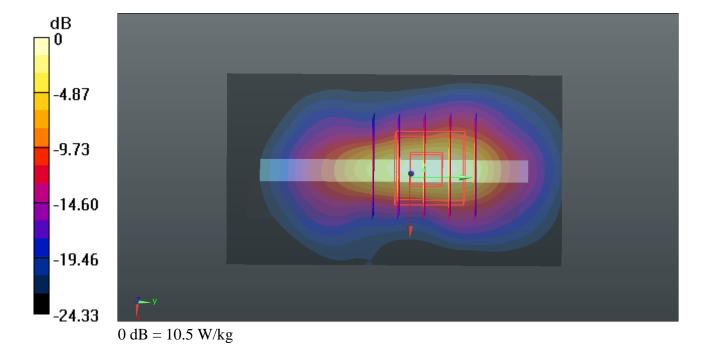
Maximum value of SAR (interpolated) = 10.5 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.835 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 13.9 W/kg

SAR(1 g) = 6.2 W/kg; SAR(10 g) = 2.5 W/kgMaximum value of SAR (measured) = 10.7 W/kg



Communication System: UID 0, UMTS (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151228 Medium parameters used: f = 1880 MHz; $\sigma = 1.526$ S/m; $\epsilon_r = 54.665$; ρ

Date: 2015.12.28

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

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

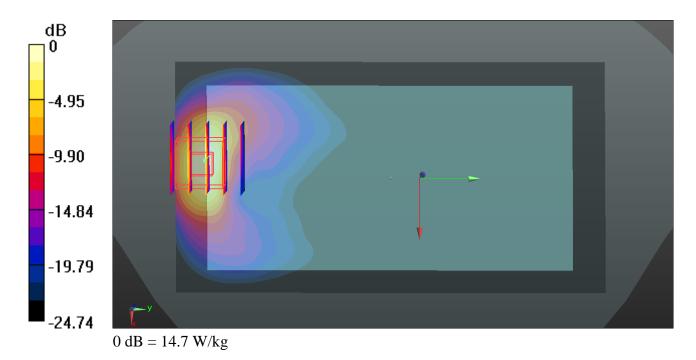
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.639 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 8.5 W/kg; SAR(10 g) = 3.38 W/kg

Maximum value of SAR (measured) = 15.2 W/kg



#01-1 GSM850 GPRS(2 Tx slots) Right Cheek Ch189

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 836.4 MHz; Duty Cycle: 1:4.15 Medium: HSL_835_151226 Medium parameters used: f = 836.6 MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Date: 2015.12.26

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

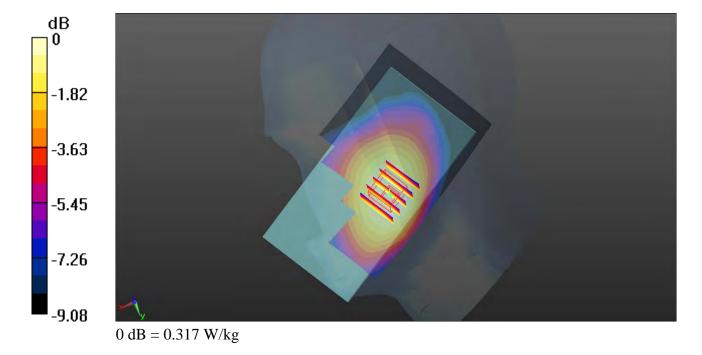
- Probe: EX3DV4 SN3819; ConvF(9.41, 9.41, 9.41); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.317 W/kg

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.780 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.343 W/kg

Feak SAR (extrapolated) = 0.345 W/kgCAD(1.6) = 0.397 W/kg, CAD(10.6) = 0.39

SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.226 W/kgMaximum value of SAR (measured) = 0.320 W/kg



#02-1_GSM1900_GPRS(2 Tx slots)_Left Cheek_Ch810

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.15 Medium: HSL_1900_151227 Medium parameters used: f = 192; 0 MHz; σ = 1.466 S/m; ϵ_r = 39.079; ρ

Date: 2015.12.27

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.79, 7.79, 7.79); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.143 W/kg

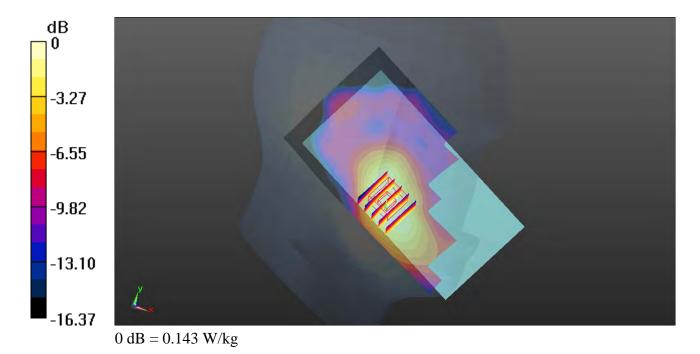
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.518 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.074 W/kg

Maximum value of SAR (measured) = 0.145 W/kg



Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL_835_151226 Medium parameters used: f = 846.6 MHz; $\sigma = 0.911$ S/m; $\varepsilon_r = 40.638$; ρ

Date: 2015.12.26

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.41, 9.41, 9.41); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.220 W/kg

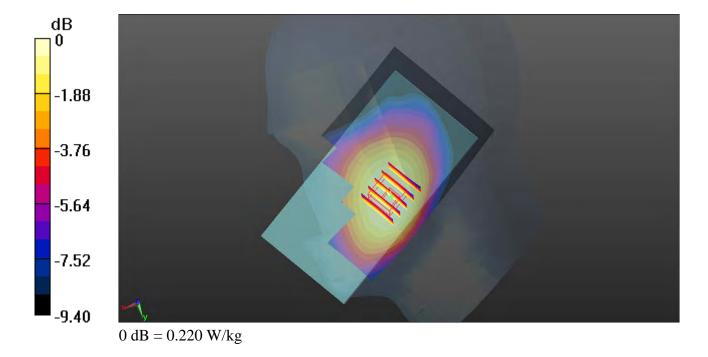
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.219 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.238 W/kg

SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.222 W/kg



#04-1 WCDMA Band II RMC 12.2Kbps Left Cheek Ch9262

Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL_1900_151227 Medium parameters used: f = 1852.4 MHz; $\sigma = 1.404$ S/m; $\varepsilon_r = 39.34$; ρ

Date: 2015.12.27

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.79, 7.79, 7.79); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.249 W/kg

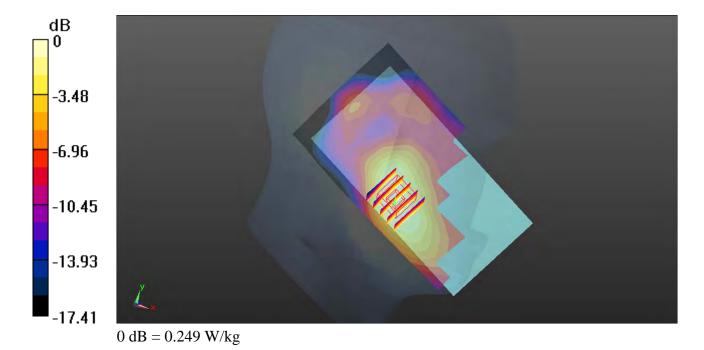
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.018 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.291 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.246 W/kg



#05-1_WLAN2.4GHz_802.11b 1Mbps_Left Cheek Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL_2450_151229 Medium parameters used: f = 2462 MHz; $\sigma = 1.833$ S/m; $\epsilon_r = 39.712$; ρ

Date: 2015.12.29

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.24, 7.24, 7.24); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x161x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 1.19 W/kg

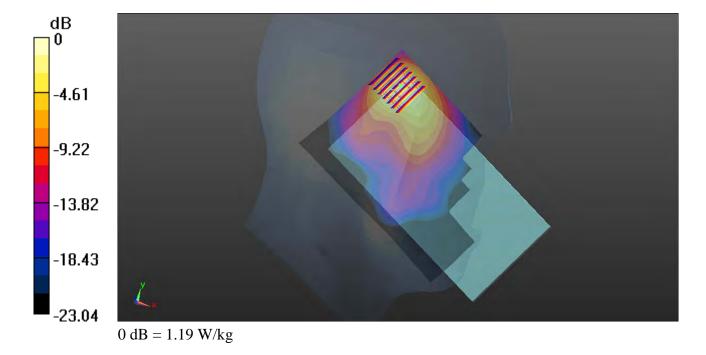
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.145 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.769 W/kg; SAR(10 g) = 0.377 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



#06-1_GSM850_GPRS(2 Tx slots)_Back_10mm_Ch189

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 836.4 MHz; Duty Cycle: 1:4.15 Medium: MSL_835_151226 Medium parameters used: f = 836.4 MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 53.962$; ρ

Date: 2015.12.26

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.825 W/kg

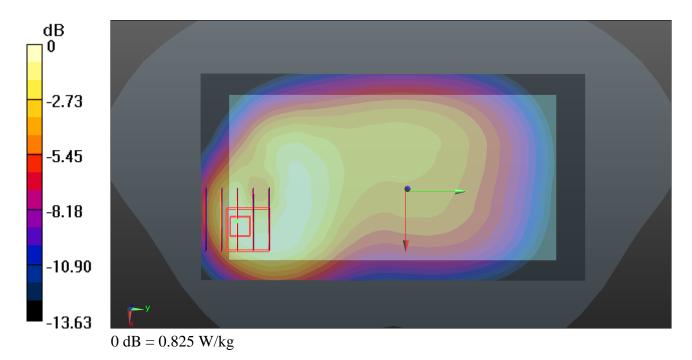
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.936 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.988 W/kg

SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.364 W/kg

Maximum value of SAR (measured) = 0.813 W/kg



#07-1_GSM1900_GPRS(2 Tx slots)_Bottom Side_10mm_Ch810

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.15 Medium: MSL_1900_160105 Medium parameters used: f = 1909.8 MHz; σ = 1.562 S/m; ϵ_r = 54.24; ρ

Date: 2016.01.05

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (41x81x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.31 W/kg

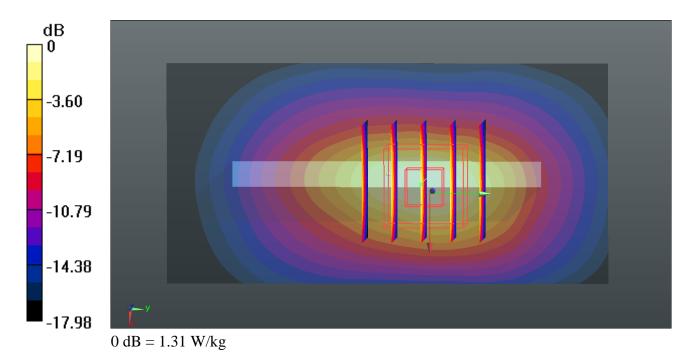
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.022 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.936 W/kg; SAR(10 g) = 0.483 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



#08-1 WCDMA Band V RMC 12.2Kbps Back 10mm Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: MSL_835_151226 Medium parameters used: f = 846.6 MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 53.865$; $\rho = 0.985$ S/m; $\epsilon_r = 53.865$; $\epsilon_r = 53.8$

Date: 2015.12.26

 1000 kg/m^3

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.582 W/kg

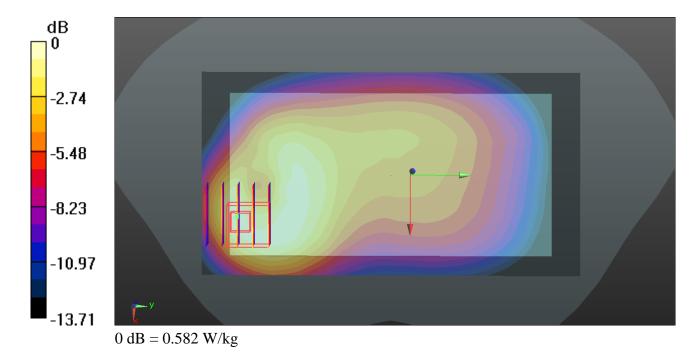
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.692 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.695 W/kg

SAR(1 g) = 0.417 W/kg; SAR(10 g) = 0.254 W/kg

Maximum value of SAR (measured) = 0.569 W/kg



Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151228 Medium parameters used: f = 1907.6 MHz; $\sigma = 1.557$ S/m; $\varepsilon_r = 54.558$; ρ

Date: 2015.12.28

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.36 W/kg

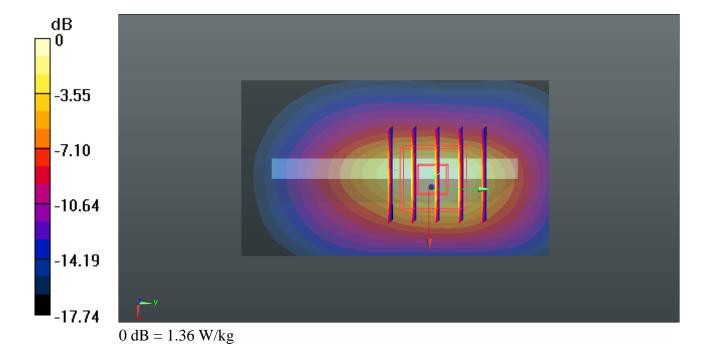
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.858 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.974 W/kg; SAR(10 g) = 0.501 W/kg

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



#10-1_WLAN2.4GHz_802.11b 1Mbps_Back_10mm Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL_2450_151229 Medium parameters used: f = 2462 MHz; $\sigma = 1.958$ S/m; $\varepsilon_r = 51.184$; ρ

Date: 2015.12.29

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.08, 7.08, 7.08); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x161x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.493 W/kg

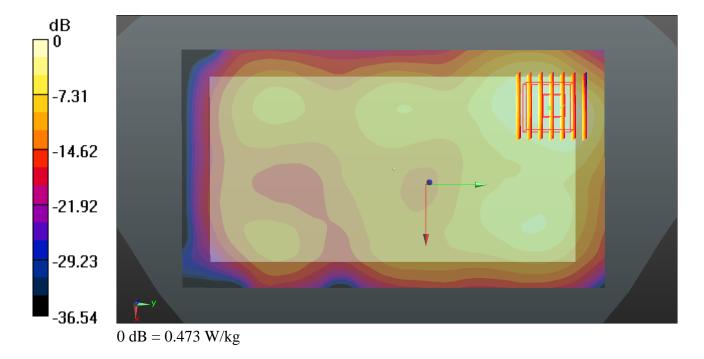
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.4480 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.690 W/kg

SAR(1 g) = 0.365 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.483 W/kg



#11-1_GSM850_GPRS(2 Tx slots)_Back_15mm_Ch189

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 836.4 MHz; Duty Cycle: 1:4.15 Medium: MSL_835_151226 Medium parameters used: f = 836.4 MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 53.962$; $\rho = 0.974$ S/m; $\epsilon_r = 0.974$ S/m;

Date: 2015.12.26

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.484 W/kg

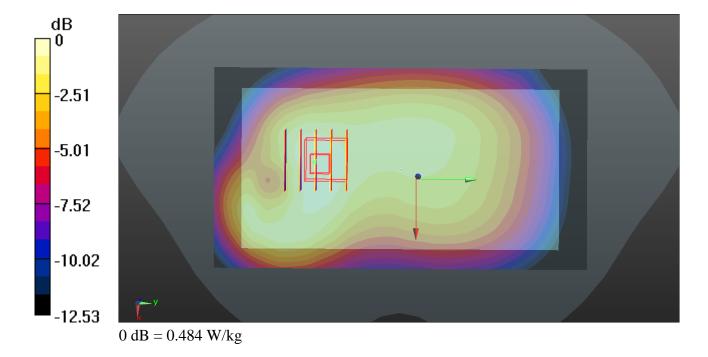
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.205 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.477 W/kg



#12-1_GSM1900_GPRS(2 Tx slots)_Back_15mm_Ch810

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.15 Medium: MSL_1900_151228 Medium parameters used: f=1909.8 MHz; $\sigma=1.559$ S/m; $\epsilon_r=54.548$; $\rho=1.559$ S/m; $\epsilon_r=54.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; $\epsilon_r=64.548$; ϵ

Date: 2015.12.28

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.516 W/kg

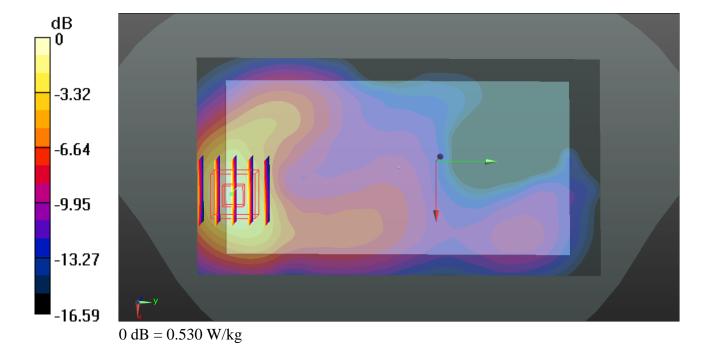
` '

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.167 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.639 W/kg

SAR(1 g) = 0.385 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.530 W/kg



#13-1 WCDMA Band V RMC 12.2Kbps Back 15mm Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: MSL_835_151226 Medium parameters used: f = 846.6 MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 53.865$; $\rho = 0.985$ S/m; $\epsilon_r = 53.865$; $\epsilon_r = 53.8$

Date: 2015.12.26

 1000 kg/m^3

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.47, 9.47, 9.47); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.343 W/kg

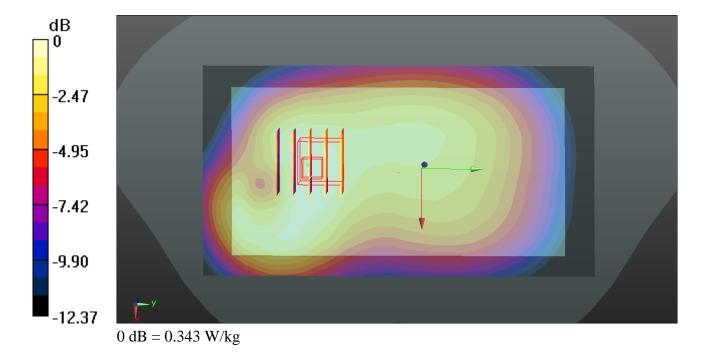
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.597 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.209 W/kg

Maximum value of SAR (measured) = 0.342 W/kg



Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151228 Medium parameters used: f = 1852.4 MHz; $\sigma = 1.494$ S/m; $\varepsilon_r = 54.729$;

Date: 2015.12.28

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.765 W/kg

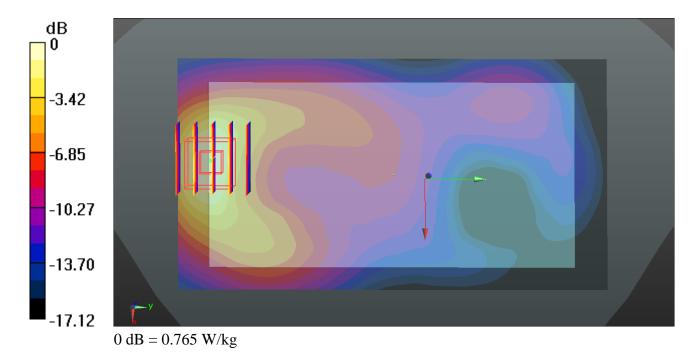
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.134 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.932 W/kg

SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.319 W/kg

Maximum value of SAR (measured) = 0.768 W/kg



#15-1_WLAN2.4GHz_802.11b 1Mbps_Back_15mm_Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL_2450_151229 Medium parameters used: f = 2462 MHz; $\sigma = 1.958$ S/m; $\varepsilon_r = 51.184$; ρ

Date: 2015.12.29

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.08, 7.08, 7.08); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x161x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.237 W/kg

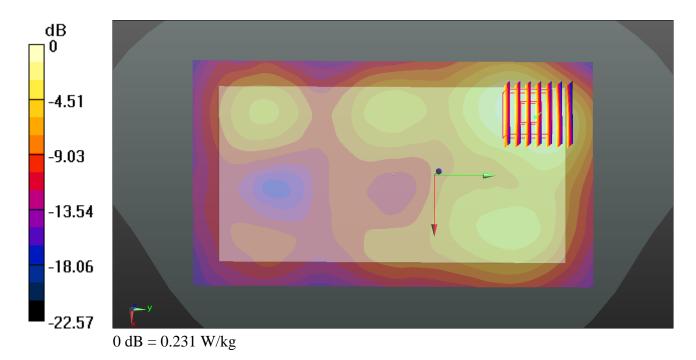
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.999 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.231 W/kg



#16-1 GSM1900 GPRS(2 Tx slots) Bottom Side 0mm Ch810 Extremity SAR

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.15 Medium: MSL_1900_160105 Medium parameters used: f = 1909.8 MHz; σ = 1.612 S/m; ϵ_r = 54.24; ρ

Date: 2016.01.05

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (41x81x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.7 W/kg

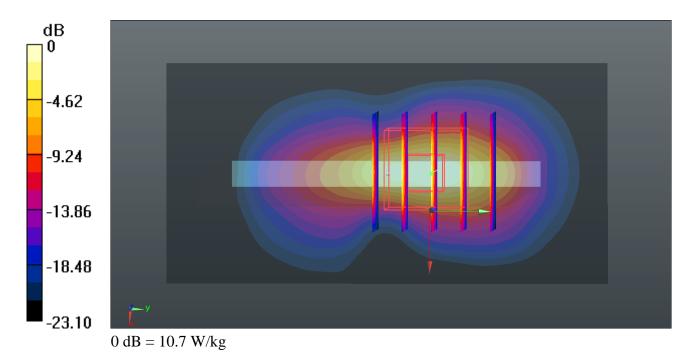
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.240 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 6.68 W/kg; SAR(10 g) = 2.7 W/kg

Maximum value of SAR (measured) = 11.3 W/kg



#17-1 WCDMA Band II RMC 12.2Kbps Front 0mm Ch9538 Extremity SAR

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151228 Medium parameters used: f=1907.6 MHz; $\sigma=1.557$ S/m; $\epsilon_r=54.558$; $\rho=1.557$ S/m; $\epsilon_r=54.558$

Date: 2015.12.28

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2015.11.27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2015.11.24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (71x131x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.0 W/kg

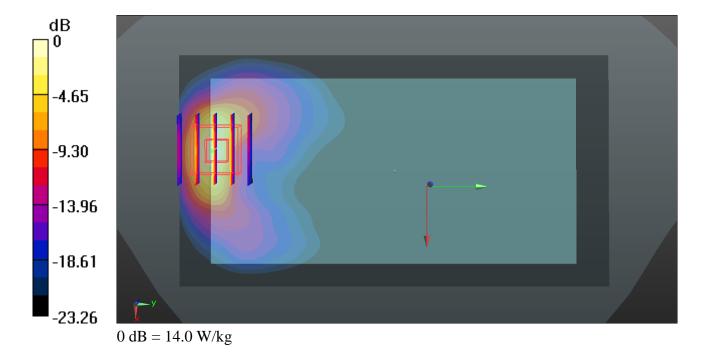
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.029 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 20.5 W/kg

SAR(1 g) = 8.65 W/kg; SAR(10 g) = 3.4 W/kg

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



Appendix E. Product Equality Declaration

Report No. : FA5N0302-01

SPORTON INTERNATIONAL (SHENZHEN) INC.

TCL Communication Ltd.

5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area, Shanghai,201203,P.R.China TEL: +86(0)21 61460666 FAX: +86(0)21 61460602

Declaration of changes from 8050E (initial) to 8050G (variant)

• SOFTWARE MODIFICATIONS:

Protocol Stack changes: No

MMS/STK/USAT/USIM changes: NoDM/SUPL/VT/FUMO/SWP/HCI:No

> Other changes detailed: NO

• HARDWARE MODIFICATIONS:

Band changes: NOPCB Layout changes: NoMain components changes:

	Antenna	AP	Modem	Transceiver	Power Amplifier	Balun	Band pass filter	Duplexer
GSM	NO	NO	NO	NO	NO	NO	Not support	Not support
WCDMA	NO	NO	NO	NO	NO	Not support	Not support	NO

	Antenna	AP	Modem	Transceiver	Power Amplifier	Balun	Band pass filter	Duplexer
Bluetooth	NO	NO	NO	NO	Not support	Not support	Not support	Not support
Wi-Fi	NO	NO	NO	NO	Not support	Not support	Not support	Not support

	Antenna	AP	Modem	Transceiver	LNA	Rx SAW Filter	Duplexer
GPS	NO	NO	NO	NO	NO	NO	Not support

> FM changes: No

Other components changes:

LCD/ Speaker/ Camera changes: No

> Other changes detailed:

Cancel a sim card; It can reduce power in GSM1900 hotspot condition

• MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: No

Mechanical shell changes: No; Whole size of EUT: no

Other changes detailed: print information on back cover changed.

Jarren Lel

APPROVED BY:

Project Manager:

Signature:

Date: 2015-1-08