FCC SAR Test Report

APPLICANT : CT Asia

EQUIPMENT : Smartphone

BRAND NAME : BLU

MODEL NAME : ADVANCE 4.0 L

FCC ID : YHLBLUADVANCE4L

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2003

We, SPORTON INTERNATIONAL (XI'AN) 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 (XI'AN) INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Approved by: Jones Tsai / Manager

Report No. : FA532405

SPORTON INTERNATIONAL (XI'AN) INC.

1F, Building A3, No. 39 Chuangye Rd., Xi'an Hi-tech Zone, Shanxi Province, P. R. C.

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA532405	Rev. 01	Initial issue of report	May 06, 2015

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for CT Asia, Smartphone, ADVANCE 4.0 L, are as follows.

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			Highe	st SAR Summary	
Equipment Class	Frequency Band	Head (Separation 0mm) 1g SAR (W/kg)	Body-worn (Separation 10mm) 1g SAR (W/kg)	Wireless Router (Separation 10mm) 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)
	GSM850	0.81	1.26	1.26	
	GSM1900	0.42	0.77	0.77	
PCE	WCDMA Band V	0.79	1.02	1.02	1.54
	WCDMA Band IV	0.34	0.82	0.82	
	WCDMA Band II	0.54	0.94	0.94	
DTS	WLAN 2.4GHz Band	1.11	0.20	0.24	1.54
Date o	f Testing:	Apr. 07, 2015 ~ Apr. 11, 2015)15	

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) 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 1528-2003.

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2. Administration Data

Testing Laboratory		
Test Site	SPORTON INTERNATIONAL (XI'AN) INC.	
Test Site Location	1F, Building A3, No. 39 Chuangye Rd., Xi'an Hi-tech Zone, Shanxi Province, P. R. C. TEL: +86-029-8860-8767 FAX: +86-029-8860-8791	

	Applicant
Company Name	CT Asia
Address	Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

	Manufacturer
Company Name	Tinno Mobile Technology Corp.
	4/F, H-3 Building, OCT Eastern industrial Park, No.1 XiangShan East Road, Nan Shan District, Shenzhen, 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 1528-2003
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- FCC KDB 865664 D02 SAR Reporting v01r01
- FCC KDB 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r02
- FCC KDB 248227 D01 SAR meas for 802 11abg v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03
- FCC KDB 941225 D06 Hotspot Mode SAR v02

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4. Equipment Under Test (EUT)

4.1 General Information

	Product Feature & Specification		
Equipment Name	Smartphone		
Brand Name	BLU		
Model Name	ADVANCE 4.0 L		
FCC ID	YHLBLUADVANCE4L		
IMEI Code	SIM1: 353919026689723 SIM2: 353924026689723		
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 IV: 1712.4 MHz ~ 1752.6 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 • RMC/AMR 12.2Kbps • HSDPA • HSUPA • HSPA+ (Downlink Only) • 802.11b/g/n HT20/HT40 • Bluetooth v3.0+EDR, Bluetooth v4.0 LE		
HW Version	V1.0		
SW Version	S4050AP_PR_4.4_BLU_US_03_01		
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	Pre-Production		
Danie auto			

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Remark

- 1. This device 2.4GHz WLAN supports Hotspot operation.
- 2. This device supported VoIP in GPRS, EGPRS, WCDMA (e.g. 3rd party VoIP).
- 3. This device supports GRPS/EGPRS mode up to multi-slot class 12.
- 4. The EUT do not support DTM function.
- This device has 2 SIM slots and supports dual SIM dual Standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active).

4.2 Maximum Tune-up Limit

Mada	Burst average power(dBm)		
Mode	GSM 850	GSM 1900	
GSM (GMSK, 1 Tx slot)	33.0	30.5	
GPRS (GMSK, 1 Tx slot)	33.0	30.5	
GPRS (GMSK, 2 Tx slots)	31.0	29.5	
GPRS (GMSK, 3 Tx slots)	29.5	28.0	
GPRS (GMSK, 4 Tx slots)	28.5	27.0	
EDGE (8PSK, 1 Tx slot)	27.0	26.5	
EDGE (8PSK, 2 Tx slots)	26.0	25.0	
EDGE (8PSK, 3 Tx slots)	23.5	23.0	
EDGE (8PSK, 4 Tx slots)	22.5	22.0	

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Mode	Average power(dBm)		
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
AMR 12.2Kbps	24.0	24.0	24.0
RMC 12.2Kbps	24.0	24.0	24.0
HSDPA Subtest-1	22.5	22.0	22.5
HSDPA Subtest-2	22.5	22.0	22.5
HSDPA Subtest-3	22.5	22.0	22.5
HSDPA Subtest-4	22.5	22.0	22.5
HSUPA Subtest-1	21.5	21.0	21.5
HSUPA Subtest-2	21.5	21.0	21.5
HSUPA Subtest-3	21.5	21.0	21.5
HSUPA Subtest-4	20.5	20.5	20.5
HSUPA Subtest-5	22.5	22.5	22.5

	Mode	Maximum Average Power (dBm)
	802.11b	15.5
2.4GHz	802.11g	13.5
2.40112	802.11n-HT20	12.5
	802.11n-HT40	12.5
Blue	etooth v3.0+EDR	5.0
Blu	uetooth v4.0 LE	-3.0

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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

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram 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.

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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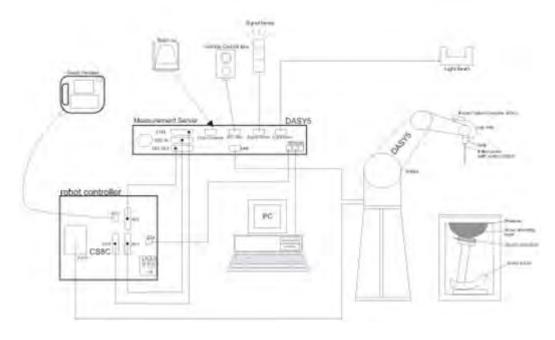
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7. System Description and Setup

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 positionina.
- 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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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.
- (c) 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>

- (a) 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 channel.
- (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.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) 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:

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

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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.

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 D01v01r03 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	$3 - 4 \text{ GHz} \le 12 \text{ mm}$ $4 - 6 \text{ GHz} \le 10 \text{ mm}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution is 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 D01v01r03 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan s	patial 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	Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·∆z	Zoom(n-1)
Minimum zoom scan volume	x, y, z		≥ 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	Type/Model	Serial Number	Calib	ration
Manufacturer	Name of Equipment	i ype/wodei	Serial Nulliber	Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d091	Nov. 21, 2014	Nov. 20, 2015
SPEAG	1750MHz System Validation Kit	D1750V2	1069	Nov. 21, 2014	Nov. 20, 2015
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	Nov. 21, 2014	Nov. 20, 2015
SPEAG	2450MHz System Validation Kit	D2450V2	840	Nov. 19, 2014	Nov. 18, 2015
SPEAG	Data Acquisition Electronics	DAE4	1358	Apr. 30, 2014	Apr. 29, 2015
SPEAG	Dosimetric E-Field Probe	EX3DV4	3911	Oct. 02, 2014	Oct. 01, 2015
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1753	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1754	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Agilent	Wireless Communication Test Set	E5515C	MY52102600	Dec. 09, 2014	Dec. 08, 2015
Agilent	ENA Series Network Analyzer	E5071C	MY46317418	Dec. 09, 2014	Dec. 08, 2015
Agilent	Dielectric Probe Kit	85070E	MY44300751	NCR	NCR
Anritsu	Power Senor	MA2411B	0917070	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Meter	ML2495A	1218010	Jan. 23, 2015	Jan. 22, 2016
R&S	Spectrum Analyzer	FSP7	101045	Dec. 09, 2014	Dec. 08, 2015
Agilent	Dual Directional Coupler	778D	50422	No	te1
Woken	Attenuator 1	WK0602-XX	N/A	No	te1
PE	Attenuator 2	PE7005-10	N/A	No	te1
PE	Attenuator 3	PE7005-3	N/A	No	te1
AR	Power Amplifier	5S1G4M2	0328767	No	te1
Mini-Circuits	Power Amplifier	ZVE-3W	162601250	Note1	
Mini-Circuits	Power Amplifier	ZHL-42W+	13440021344	No	te1

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General Note:

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

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tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)
(=/	(70)	(70)	(70)	For Head	(,0)	(70)	(3)	(3.)
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)		Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
835	Head	22.5	0.919	42.038	0.90	41.50	2.11	1.30	±5	Apr. 09, 2015
1750	Head	22.4	1.365	40.704	1.37	40.10	-0.36	1.51	±5	Apr. 09, 2015
1900	Head	22.6	1.455	40.846	1.40	40.00	3.93	2.11	±5	Apr. 09, 2015
2450	Head	22.7	1.845	37.668	1.80	39.20	2.50	-3.91	±5	Apr. 11, 2015
835	Body	22.5	0.977	54.442	0.97	55.20	0.72	-1.37	±5	Apr. 07, 2015
1750	Body	22.5	1.478	53.521	1.49	53.40	-0.81	0.23	±5	Apr. 08, 2015
1900	Body	22.3	1.556	53.087	1.52	53.30	2.37	-0.40	±5	Apr. 07, 2015
2450	Body	22.6	1.984	51.165	1.95	52.70	1.74	-2.91	±5	Apr. 11, 2015

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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 (%)
Apr. 09, 2015	835	Head	250	4d091	3911	1358	2.37	9.11	9.48	4.06
Apr. 09, 2015	1750	Head	250	1069	3911	1358	9.40	37.10	37.60	1.35
Apr. 09, 2015	1900	Head	250	5d118	3911	1358	10.60	40.10	42.40	5.74
Apr. 11, 2015	2450	Head	250	840	3911	1358	12.80	52.30	51.20	-2.10
Apr. 07, 2015	835	Body	250	4d091	3911	1358	2.39	9.60	9.56	-0.42
Apr. 08, 2015	1750	Body	250	1069	3911	1358	9.42	38.10	37.68	-1.10
Apr. 07, 2015	1900	Body	250	5d118	3911	1358	10.30	40.00	41.20	3.00
Apr. 11, 2015	2450	Body	250	840	3911	1358	13.00	51.00	52.00	1.96

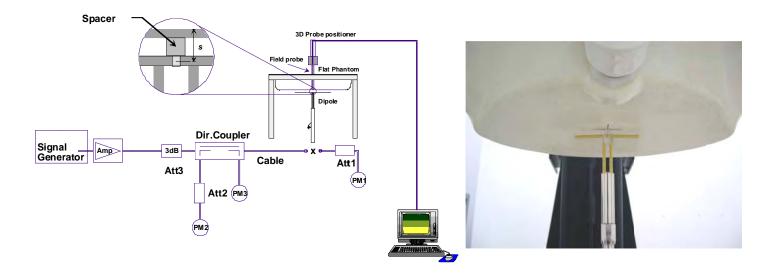


Fig 8.3.1 System Performance Check Setup

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

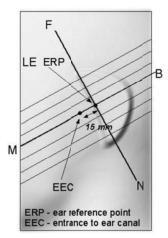
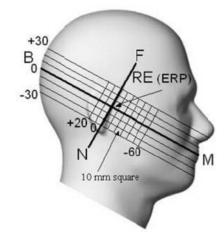


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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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

- 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. 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.
- 3. 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.
- 4. 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.
- 6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 7. 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.

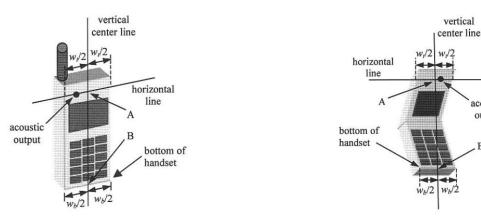


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

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

acoustic output

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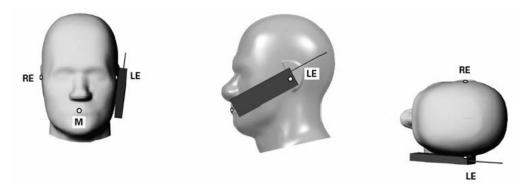


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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11.3 Definition of the tilt position

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.

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- 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°.
- 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 KDB 648474 D04v01r02, 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 D01v05r02 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when 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.

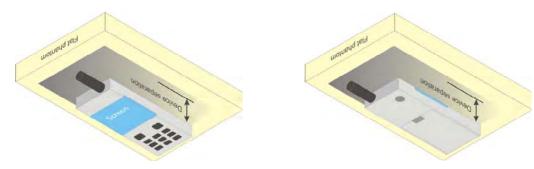


Fig 9.4 Body Worn Position

11.5 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 HDB Publication 941225 D06 v02 where SAR test considerations for handsets (L \times W \ge 9 cm \times 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.

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 D01v05r02 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>

 Per KDB 447498 D01v05r02, the maximum output power channel is used for SAR testing and for further SAR test reduction.

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- 2. Per KDB 941225 D01v03, considering the possibility of e.g. 3rd party VoIP operation for Head and body-worn SAR test reduction for GSM and GPRS and EDGE 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 (4Tx slots) for GSM850/GSM1900.
- 3. Per KDB 941225 D01v03, for Hotspot SAR test reduction for GPRS and EDGE modes 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 (4Tx slots) for GSM850/GSM1900.

SIM1:

Band GSM850	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	Tune-up Frame-Average Power (dBn		
TX Channel	128	189	251	Limit	128	189	251	Tune-up Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	32.69	32.61	32.55	33.0	23.69	23.61	23.55	24.0
GPRS (GMSK, 1 Tx slot) – CS1	32.58	32.50	32.51	33.0	23.58	23.50	23.51	24.0
GPRS (GMSK, 2 Tx slots) – CS1	30.83	30.74	30.76	31.0	24.83	24.74	24.76	25.0
GPRS (GMSK, 3 Tx slots) – CS1	29.33	29.24	29.24	29.5	25.07	24.98	24.98	25.24
GPRS (GMSK, 4 Tx slots) – CS1	28.37	28.29	28.27	28.5	25.37	25.29	25.27	25.5
EDGE (8PSK, 1 Tx slot) – MCS5	26.98	26.22	25.82	27.0	17.98	17.22	16.82	18.0
EDGE (8PSK, 2 Tx slots) – MCS5	25.64	25.20	24.80	26.0	19.64	19.20	18.80	20.0
EDGE (8PSK, 3 Tx slots) – MCS5	23.35	23.00	22.58	23.5	19.09	18.74	18.32	19.24
EDGE (8PSK, 4 Tx slots) – MCS5	22.05	21.60	21.28	22.5	19.05	18.60	18.28	19.5
Band GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	erage Pov	ver (dBm)	Tune-up
Band GSM1900 TX Channel	Burst Av 512	erage Pow 661	er (dBm) 810	Limit	Frame-Av 512	erage Pov 661	ver (dBm) 810	Limit
N 1 2 2 2 1 1 1 1								
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 30.17	661 1880 30.18	810 1909.8 30.21	Limit (dBm) 30.5	512 1850.2 21.17	661 1880 21.18	810 1909.8 21.21	Limit (dBm) 21.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1	512 1850.2 30.17 30.01	661 1880 30.18 30.04	810 1909.8 30.21 30.19	Limit (dBm) 30.5 30.5	512 1850.2 21.17 21.01	661 1880 21.18 21.04	810 1909.8 21.21 21.19	Limit (dBm) 21.5 21.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1	512 1850.2 30.17 30.01 29.27	661 1880 30.18 30.04 29.29	810 1909.8 30.21 30.19 29.32	Limit (dBm) 30.5 30.5 29.5	512 1850.2 21.17 21.01 23.27	661 1880 21.18 21.04 23.29	810 1909.8 21.21 21.19 23.32	Limit (dBm) 21.5 21.5 23.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1	512 1850.2 30.17 30.01 29.27 27.64	661 1880 30.18 30.04 29.29 27.66	810 1909.8 30.21 30.19 29.32 27.68	Limit (dBm) 30.5 30.5 29.5 28.0	512 1850.2 21.17 21.01 23.27 23.38	661 1880 21.18 21.04 23.29 23.40	810 1909.8 21.21 21.19 23.32 23.42	Limit (dBm) 21.5 21.5 23.5 23.74
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1	512 1850.2 30.17 30.01 29.27 27.64 26.72	661 1880 30.18 30.04 29.29 27.66 26.75	810 1909.8 30.21 30.19 29.32 27.68 26.76	Limit (dBm) 30.5 30.5 29.5 28.0 27.0	512 1850.2 21.17 21.01 23.27 23.38 23.72	661 1880 21.18 21.04 23.29 23.40 23.75	810 1909.8 21.21 21.19 23.32 23.42 23.76	Limit (dBm) 21.5 21.5 23.5 23.74 24.0
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1 EDGE (8PSK, 1 Tx slot) – MCS5	512 1850.2 30.17 30.01 29.27 27.64 26.72 25.70	661 1880 30.18 30.04 29.29 27.66 26.75 25.80	810 1909.8 30.21 30.19 29.32 27.68 26.76 26.04	Limit (dBm) 30.5 30.5 29.5 28.0 27.0 26.5	512 1850.2 21.17 21.01 23.27 23.38 23.72 16.70	661 1880 21.18 21.04 23.29 23.40 23.75 16.80	810 1909.8 21.21 21.19 23.32 23.42 23.76 17.04	Limit (dBm) 21.5 21.5 23.5 23.74 24.0 17.5

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 Av	erage Pow	er (dBm)	Tune-up	Frame-A	verage 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)	32.68	32.60	32.54	33.0	23.68	23.60	23.54	24.0
GPRS (GMSK, 1 Tx slot) – CS1	32.57	32.48	32.50	33.0	23.57	23.48	23.50	24.0
GPRS (GMSK, 2 Tx slots) – CS1	30.82	30.73	30.75	31.0	24.82	24.73	24.75	25.0
GPRS (GMSK, 3 Tx slots) – CS1	29.31	29.24	29.22	29.5	25.05	24.98	24.96	25.24
GPRS (GMSK, 4 Tx slots) – CS1	28.35	28.28	28.25	28.5	<mark>25.35</mark>	25.28	25.25	25.5
EDGE (8PSK, 1 Tx slot) – MCS5	26.95	26.21	25.78	27.0	17.95	17.21	16.78	18.0
EDGE (8PSK, 2 Tx slots) – MCS5	25.60	25.18	24.76	26.0	19.60	19.18	18.76	20.0
EDGE (8PSK, 3 Tx slots) – MCS5	23.32	22.98	22.55	23.5	19.06	18.72	18.29	19.24
EDGE (8PSK, 4 Tx slots) – MCS5	22.04	21.59	21.23	22.5	19.04	18.59	18.23	19.5
					Frame-Average Power (dBm)			
Band GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	erage Pov	ver (dBm)	Tune-up
Band GSM1900 TX Channel	Burst Av 512	erage Pow 661	er (dBm) 810	Limit	Frame-Av 512	erage Pov 661	ver (dBm) 810	Tune-up Limit
							<u> </u>	
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 30.15	661 1880 30.16	810 1909.8 30.20	Limit (dBm) 30.5	512 1850.2 21.15	661 1880 21.16	810 1909.8 21.20	Limit (dBm) 21.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1	512 1850.2 30.15 30.00	661 1880 30.16 30.02	810 1909.8 30.20 30.17	Limit (dBm) 30.5 30.5	512 1850.2 21.15 21.00	661 1880 21.16 21.02	810 1909.8 21.20 21.17	Limit (dBm) 21.5 21.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1	512 1850.2 30.15 30.00 29.26	661 1880 30.16 30.02 29.28	810 1909.8 30.20 30.17 29.30	Limit (dBm) 30.5 30.5 29.5	512 1850.2 21.15 21.00 23.26	661 1880 21.16 21.02 23.28	810 1909.8 21.20 21.17 23.30	Limit (dBm) 21.5 21.5 23.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1	512 1850.2 30.15 30.00 29.26 27.60	661 1880 30.16 30.02 29.28 27.62	810 1909.8 30.20 30.17 29.30 27.65	Limit (dBm) 30.5 30.5 29.5 28.0	512 1850.2 21.15 21.00 23.26 23.34	661 1880 21.16 21.02 23.28 23.36	810 1909.8 21.20 21.17 23.30 23.39	Limit (dBm) 21.5 21.5 23.5 23.74
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1	512 1850.2 30.15 30.00 29.26 27.60 26.71	661 1880 30.16 30.02 29.28 27.62 26.73	810 1909.8 30.20 30.17 29.30 27.65 26.74	Limit (dBm) 30.5 30.5 29.5 28.0 27.0	512 1850.2 21.15 21.00 23.26 23.34 23.71	661 1880 21.16 21.02 23.28 23.36 23.73	810 1909.8 21.20 21.17 23.30 23.39 23.74	Limit (dBm) 21.5 21.5 23.5 23.74 24.0
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1 EDGE (8PSK, 1 Tx slot) – MCS5	512 1850.2 30.15 30.00 29.26 27.60 26.71 25.68	661 1880 30.16 30.02 29.28 27.62 26.73 25.78	810 1909.8 30.20 30.17 29.30 27.65 26.74 26.02	Limit (dBm) 30.5 30.5 29.5 28.0 27.0 26.5	512 1850.2 21.15 21.00 23.26 23.34 23.71 16.68	661 1880 21.16 21.02 23.28 23.36 23.73 16.78	810 1909.8 21.20 21.17 23.30 23.39 23.74 17.02	Limit (dBm) 21.5 21.5 23.5 23.74 24.0 17.5

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 D01 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:

- 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. 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	βa	β _d (SF)	β₀/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 β _{Is} = 30/15 * β _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, Δ_{ACK} and Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c , and Δ_{CQI} = 24/15
- with β_{ls} = 24/15 * β_c . Note 3: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH 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_c/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	βε	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: Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c .
- Note 2: CM = 1 for $\beta_0/\beta_d = 12/15$, $\beta_{1s}/\beta_c = 24/15$. 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.

Setup Configuration

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<WCDMA Conducted Power>

General Note:

Per KDB 941225 D01v03, 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 D01v03, RMC 12.2kbps setting is used to evaluate SAR. 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:

<u> </u>	IWII.											
	В	and	WC	DMA Bar	nd V	WC	DMA Bar	nd II	WCI	DMA Ban	d IV	
	TX C	Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513	
Rx Channel				4407	4458	9662	9800	9938	1537	1638	1738	
	Freque	ncy (MHz)	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	
MPR	3GPP Rel 99	AMR 12.2Kbps	23.44	23.26	23.39	22.93	23.18	23.36	23.61	23.40	23.51	
(dB)	3GPP Rel 99	RMC 12.2Kbps	23.45	23.27	23.40	22.94	23.20	23.37	23.62	23.42	23.52	
0	3GPP Rel 6	HSDPA Subtest-1	22.21	22.17	22.06	21.55	21.84	21.87	22.14	22.05	22.16	
0	3GPP Rel 6	HSDPA Subtest-2	22.22	22.16	22.07	21.57	21.84	21.86	22.16	22.07	22.18	
0.5	3GPP Rel 6	HSDPA Subtest-3	21.74	21.66	21.62	21.10	21.37	21.43	21.67	21.59	21.74	
0.5	3GPP Rel 6	HSDPA Subtest-4	21.71	21.65	21.59	21.08	21.37	21.40	21.67	21.59	21.73	
0	3GPP Rel 6	HSUPA Subtest-1	20.23	20.18	20.05	19.63	19.86	20.01	20.19	20.13	20.22	
2	3GPP Rel 6	HSUPA Subtest-2	20.23	20.13	20.09	19.66	19.85	19.98	20.19	20.15	20.19	
1	3GPP Rel 6	HSUPA Subtest-3	21.19	21.15	21.04	20.63	20.88	20.95	21.19	21.13	21.18	
2	3GPP Rel 6	HSUPA Subtest-4	19.67	19.61	19.55	19.09	19.37	19.47	19.66	19.58	19.66	
0	3GPP Rel 6	HSUPA Subtest-5	22.20	22.20	22.00	21.60	21.90	22.00	22.20	22.10	22.20	

SIM2:											
	Е	Band	WC	DMA Bar	nd V	WC	DMA Bar	nd II	WC	DMA Ban	d IV
	TX Channel				4233	9262	9400	9538	1312	1413	1513
	Rx C	Channel	4357	4407	4458	9662	9800	9938	1537	1638	1738
	Freque	ncy (MHz)	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
MPR	3GPP Rel 99	AMR 12.2Kbps	23.41	23.24	23.37	22.90	23.17	23.35	23.59	23.40	23.48
(dB)	3GPP Rel 99	RMC 12.2Kbps	23.42	23.25	23.38	22.91	23.18	23.36	23.60	23.41	23.50
0	3GPP Rel 6	HSDPA Subtest-1	22.20	22.16	22.05	21.54	21.82	21.85	22.12	22.02	22.15
0	3GPP Rel 6	HSDPA Subtest-2	22.18	22.12	22.05	21.55	21.83	21.82	22.15	22.05	22.16
0.5	3GPP Rel 6	HSDPA Subtest-3	21.70	21.63	21.60	21.07	21.35	21.40	21.66	21.58	21.72
0.5	3GPP Rel 6	HSDPA Subtest-4	21.70	21.63	21.55	21.06	21.36	21.35	21.65	21.56	21.72
0	3GPP Rel 6	HSUPA Subtest-1	20.22	20.17	20.02	19.62	19.83	20.00	20.18	20.12	20.21
2	3GPP Rel 6	HSUPA Subtest-2	20.21	20.10	20.06	19.64	19.84	19.97	20.16	20.12	20.18
1	3GPP Rel 6	HSUPA Subtest-3	21.18	21.10	21.00	20.60	20.85	20.93	21.15	21.11	21.16
2	3GPP Rel 6	HSUPA Subtest-4	19.65	19.60	19.54	19.08	19.33	19.44	19.64	19.55	19.64
0	3GPP Rel 6	HSUPA Subtest-5	22.19	22.18	21.98	21.56	21.89	21.93	22.18	22.06	22.18

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<WLAN Conducted Power>

General Note:

For IEEE802.11b/g SAR testing, highest average RF output power channel for the lowest data rate for 802.11b were selected for SAR evaluation. 802.11g were not investigated since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of 802.11b mode.

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- 2. For IEEE802.11n, SAR testing can be conducted on channel with the highest output power when taking into consideration tune-up tolerance for same test configuration that was identified during SAR evaluations for IEEE802.11b/g (as applicable) provided bandwidth and test position are the same.
- For IEEE802.11n with multiple channel BW configurations, highest channel BW configuration with highest output 3. power limit shall be tested.
- 4. Testing of lower BW configurations is not required when the maximum average output of the default test channels in each lower BW configuration is less than 1/4dB higher than the default test channel in the highest BW configuration.

<2.4GHz WLAN>

	WL	AN 2.4GHz 802.11b <i>A</i>	verage Power (dBm)			
	Power vs. Channel		Power vs. Data Rate			
Channel	Frequency	Data Rate	2Mbps	5.5Mbps	11Mbps	
Onarinei	(MHz)	1Mbps	Ζίνιυρο	J.JIVIDP3	Τηνισμο	
CH 1	2412	14.82				
CH 6	2437	14.96	15.21	15.20	15.19	
CH 11	2462	<mark>15.22</mark>				

	WLAN 2.4GHz 802.11g Average Power (dBm)											
Po	wer vs. Chann	el	Power vs. Data Rate									
Channel	Frequency	Data Rate	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps			
Chamilei	(MHz)	6Mbps	alviops	12Mbps	Tolvibbs	24Wbps	Squivips	40Mbps	54Mbps			
CH 1	2412	12.08										
CH 6	2437	13.46	13.19	13.25	13.30	13.31	13.42	13.34	13.26			
CH 11	2462	12.10										

	WLAN 2.4GHz 802.11n-HT20 Average Power (dBm)											
Pov	wer vs. Chann	el	Power vs. MCS Index									
Channel	Frequency	MCS Index	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7			
Chamilei	(MHz)	MCS0	MCST	MC32	MCSS	MC34	MCSS	MCS6	IVICS1			
CH 1	2412	11.49										
CH 6	2437	12.38	12.32	12.25	12.29	12.22	12.31	12.29	12.31			
CH 11	2462	12.11										

	WLAN 2.4GHz 802.11n-HT40 Average Power (dBm)											
Pov	wer vs. Chann	el	Power vs. MCS Index									
Channel	Frequency	MCS Index	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7			
	(MHz)	MCS0										
CH 3	2422	8.89										
CH 6	2437	<mark>12.14</mark>	12.08	11.99	12.01	12.02	11.99	12.10	12.01			
CH 9	2452	9.41										

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13. Bluetooth Exclusions Applied

Mode Band	Average po	wer(dBm)
Mode Ballu	Bluetooth v3.0+EDR	Bluetooth v4.0 LE
2.4GHz Bluetooth	5	-3

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1. Per KDB 447498 D01v05r02, 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	< 5	2.48	0.9

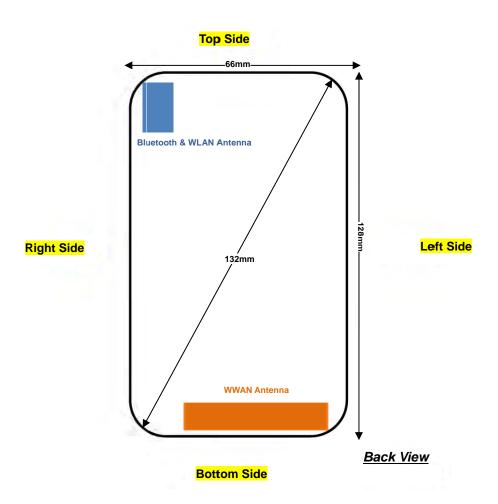
Note:

Per KDB 447498 D01v05r02, 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 0.9 which is <= 3, SAR testing is not required.

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14. Antenna Location



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	Distance of the Antenna to the EUT surface/edge											
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side						
WWAN	≤ 25mm	≤ 25mm	117mm	≤ 25mm	≤ 25mm	≤ 25mm						
BT&WLAN ≤ 25mm ≤ 25mm 108mm ≤ 25mm 55mm												

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

Referring to KDB 941225 D06 v02, when the overall device length and width are ≥ 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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15. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v05r02, 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 D01v05r02, 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
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- Pre KDB648474 D04v01r02, when the reported SAR for a 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 headset attached to the handset.
- 4. Per KDB 941225 D01v03, considering the possibility of e.g. 3rd party VoIP operation for Head and body-worn SAR test reduction for GSM and GPRS and EDGE 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 (4Tx slots) for GSM850/GSM1900.
- Per KDB 941225 D01v03, for Hotspot SAR test reduction for GPRS and EDGE modes 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 (4Tx slots) for GSM850/GSM1900.
- 6. Per KDB 941225 D01v03, SAR for Head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 7. Per KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. 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.
- 8. This device 2.4GHz WLAN supports Hotspot operation.
- 9. Additional WLAN SAR with headset testing was performed for simultaneous transmission analysis.
- 10. During SAR testing the WLAN transmission was verified using a spectrum analyzer.



15.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (GMSK 4 Tx slots)	Right Cheek	128	824.2	28.37	28.50	1.030	0.09	0.659	0.679
	GSM850	GPRS (GMSK 4 Tx slots)	Right Tilted	128	824.2	28.37	28.50	1.030	0.14	0.403	0.415
	GSM850	GPRS (GMSK 4 Tx slots)	Left Cheek	128	824.2	28.37	28.50	1.030	0.15	0.707	0.728
	GSM850	GPRS (GMSK 4 Tx slots)	Left Tilted	128	824.2	28.37	28.50	1.030	-0.03	0.434	0.447
	GSM850	GPRS (GMSK 4 Tx slots)	Left Cheek	189	836.4	28.29	28.50	1.050	0.07	0.734	0.770
#01	GSM850	GPRS (GMSK 4 Tx slots)	Left Cheek	251	848.8	28.27	28.50	1.054	0.09	0.772	<mark>0.814</mark>
	GSM1900	GPRS (GMSK 4 Tx slots)	Right Cheek	810	1909.8	26.76	27.00	1.057	-0.16	0.323	0.341
	GSM1900	GPRS (GMSK 4 Tx slots)	Right Tilted	810	1909.8	26.76	27.00	1.057	0.07	0.218	0.230
	GSM1900	GPRS (GMSK 4 Tx slots)	Left Cheek	810	1909.8	26.76	27.00	1.057	0.07	0.375	0.396
	GSM1900	GPRS (GMSK 4 Tx slots)	Left Tilted	810	1909.8	26.76	27.00	1.057	-0.01	0.184	0.194
	GSM1900	GPRS (GMSK 4 Tx slots)	Left Cheek	512	1850.2	26.72	27.00	1.067	-0.01	0.395	0.421
#02	GSM1900	GPRS (GMSK 4 Tx slots)	Left Cheek	661	1880	26.75	27.00	1.059	-0.05	0.400	0.424

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4132	826.4	23.45	24.00	1.135	0.18	0.589	0.669
	WCDMA Band V	RMC 12.2Kbps	Right Tilted	4132	826.4	23.45	24.00	1.135	0.06	0.347	0.394
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4132	826.4	23.45	24.00	1.135	0.02	0.605	0.687
	WCDMA Band V	RMC 12.2Kbps	Left Tilted	4132	826.4	23.45	24.00	1.135	0.07	0.340	0.386
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4182	836.4	23.27	24.00	1.183	0.18	0.574	0.679
#03	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4233	846.6	23.40	24.00	1.148	0.19	0.687	<mark>0.789</mark>
	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	1312	1712.4	23.62	24.00	1.091	0.05	0.176	0.192
	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	1312	1712.4	23.62	24.00	1.091	0.13	0.133	0.145
	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1312	1712.4	23.62	24.00	1.091	-0.04	0.197	0.215
	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	1312	1712.4	23.62	24.00	1.091	0.03	0.104	0.114
#04	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1413	1732.6	23.42	24.00	1.143	0.02	0.301	0.344
	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1513	1752.6	23.52	24.00	1.117	-0.05	0.284	0.317
	WCDMA Band II	RMC 12.2Kbps	Right Cheek	9538	1907.6	23.37	24.00	1.156	0.07	0.358	0.414
	WCDMA Band II	RMC 12.2Kbps	Right Tilted	9538	1907.6	23.37	24.00	1.156	0.09	0.242	0.280
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9538	1907.6	23.37	24.00	1.156	0.11	0.422	0.488
	WCDMA Band II	RMC 12.2Kbps	Left Tilted	9538	1907.6	23.37	24.00	1.156	0.01	0.199	0.230
#05	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9262	1852.4	22.94	24.00	1.276	0.06	0.423	0.540
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9400	1880	23.20	24.00	1.202	-0.02	0.432	0.519

<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cusis	I WELA	Duite	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b, 1Mbps	Right Cheek	11	2462	15.22	15.50	1.067	97.67	1.024	0.07	0.499	0.545
	WLAN2.4GHz	802.11b, 1Mbps	Right Tilted	11	2462	15.22	15.50	1.067	97.67	1.024	0.03	0.466	0.509
	WLAN2.4GHz	802.11b, 1Mbps	Left Cheek	11	2462	15.22	15.50	1.067	97.67	1.024	0.14	0.920	1.005
	WLAN2.4GHz	802.11b, 1Mbps	Left Tilted	11	2462	15.22	15.50	1.067	97.67	1.024	0.03	0.536	0.585
#06	WLAN2.4GHz	802.11b, 1Mbps	Left Cheek	1	2412	14.82	15.50	1.169	97.67	1.024	0.09	0.928	1.111
	WLAN2.4GHz	802.11b, 1Mbps	Left Cheek	6	2437	14.96	15.50	1.132	97.67	1.024	0.02	0.956	1.109
	WLAN2.4GHz	802.11n-HT40, MCS0	Left Cheek	6	2437	12.14	12.50	1.086	78.1	1.280	0.05	0.407	0.566

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15.2 Hotspot SAR

Distance of the Antenna to the EUT surface/edge										
Antennas	Antennas Back Front Top Side Bottom Side Right Side Left Side									
WWAN	≤ 25mm	≤ 25mm	117mm	≤ 25mm	≤ 25mm	≤ 25mm				
BT&WLAN ≤ 25mm ≤ 25mm 108mm ≤ 25mm 55mm										

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	Po	ositions for SAR to	ests; Hotspot mo	de		
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN	Yes	Yes	No	Yes	Yes	Yes
BT&WLAN	Yes	Yes	Yes	No	Yes	No

General Note:

Referring to KDB 941225 D06 v02, when the overall device length and width are ≥ 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

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	128	824.2	28.37	28.50	1.030	-0.04	0.861	0.887
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	128	824.2	28.37	28.50	1.030	-0.01	1.150	1.185
	GSM850	GPRS (GMSK 4 Tx slots)	Left side	1	128	824.2	28.37	28.50	1.030	-0.03	0.910	0.938
	GSM850	GPRS (GMSK 4 Tx slots)	Right side	1	128	824.2	28.37	28.50	1.030	0.05	0.826	0.851
	GSM850	GPRS (GMSK 4 Tx slots)	Bottom side	1	128	824.2	28.37	28.50	1.030	-0.01	0.074	0.076
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	189	836.4	28.29	28.50	1.050	-0.02	0.869	0.912
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	251	848.8	28.27	28.50	1.054	-0.01	0.882	0.930
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	189	836.4	28.29	28.50	1.050	0.02	1.170	1.228
#07	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	28.27	28.50	1.054	0.04	1.190	1.255
	GSM850	GPRS (GMSK 4 Tx slots)	Left side	1	189	836.4	28.29	28.50	1.050	-0.04	0.924	0.970
	GSM850	GPRS (GMSK 4 Tx slots)	Left side	1	251	848.8	28.27	28.50	1.054	0.03	0.882	0.930
	GSM850	GPRS (GMSK 4 Tx slots)	Right side	1	189	836.4	28.29	28.50	1.050	-0.02	0.841	0.883
	GSM850	GPRS (GMSK 4 Tx slots)	Right side	1	251	848.8	28.27	28.50	1.054	0.03	0.828	0.873
	GSM1900	GPRS (GMSK 4 Tx slots)	Front	1	810	1909.8	26.76	27.00	1.057	0.01	0.581	0.614
	GSM1900	GPRS (GMSK 4 Tx slots)	Back	1	810	1909.8	26.76	27.00	1.057	0.12	0.631	0.667
	GSM1900	GPRS (GMSK 4 Tx slots)	Left side	1	810	1909.8	26.76	27.00	1.057	0.01	0.190	0.201
	GSM1900	GPRS (GMSK 4 Tx slots)	Right side	1	810	1909.8	26.76	27.00	1.057	-0.01	0.120	0.127
	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	1	810	1909.8	26.76	27.00	1.057	-0.01	0.535	0.565
#08	GSM1900	GPRS (GMSK 4 Tx slots)	Back	1	512	1850.2	26.72	27.00	1.067	0.16	0.722	0.770
	GSM1900	GPRS (GMSK 4 Tx slots)	Back	1	661	1880	26.75	27.00	1.059	0.16	0.675	0.715

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FCC SAR Test Report

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Front	1	4132	826.4	23.45	24.00	1.135	0.01	0.730	0.829
	WCDMA Band V	RMC 12.2Kbps	Back	1	4132	826.4	23.45	24.00	1.135	0.04	0.866	0.983
	WCDMA Band V	RMC 12.2Kbps	Left side	1	4132	826.4	23.45	24.00	1.135	0.04	0.644	0.731
	WCDMA Band V	RMC 12.2Kbps	Right side	1	4132	826.4	23.45	24.00	1.135	0.04	0.619	0.703
	WCDMA Band V	RMC 12.2Kbps	Bottom side	1	4132	826.4	23.45	24.00	1.135	0.05	0.053	0.060
	WCDMA Band V	RMC 12.2Kbps	Front	1	4182	836.4	23.27	24.00	1.183	0.01	0.706	0.835
	WCDMA Band V	RMC 12.2Kbps	Front	1	4233	846.6	23.40	24.00	1.148	0.01	0.747	0.858
#09	WCDMA Band V	RMC 12.2Kbps	Back	1	4182	836.4	23.27	24.00	1.183	0.03	0.860	1.017
	WCDMA Band V	RMC 12.2Kbps	Back	1	4233	846.6	23.40	24.00	1.148	0.01	0.869	0.998
	WCDMA Band IV	RMC 12.2Kbps	Front	1	1312	1712.4	23.62	24.00	1.091	80.0	0.430	0.469
	WCDMA Band IV	RMC 12.2Kbps	Back	1	1312	1712.4	23.62	24.00	1.091	0.08	0.517	0.564
	WCDMA Band IV	RMC 12.2Kbps	Left side	1	1312	1712.4	23.62	24.00	1.091	0.13	0.088	0.096
	WCDMA Band IV	RMC 12.2Kbps	Right side	1	1312	1712.4	23.62	24.00	1.091	0.18	0.100	0.109
	WCDMA Band IV	RMC 12.2Kbps	Bottom side	1	1312	1712.4	23.62	24.00	1.091	0.07	0.222	0.242
#10	WCDMA Band IV	RMC 12.2Kbps	Back	1	1413	1732.6	23.42	24.00	1.143	0.10	0.721	<mark>0.824</mark>
	WCDMA Band IV	RMC 12.2Kbps	Back	1	1513	1752.6	23.52	24.00	1.117	0.07	0.666	0.744
	WCDMA Band II	RMC 12.2Kbps	Front	1	9538	1907.6	23.37	24.00	1.156	-0.09	0.672	0.777
	WCDMA Band II	RMC 12.2Kbps	Back	1	9538	1907.6	23.37	24.00	1.156	0.06	0.714	0.825
	WCDMA Band II	RMC 12.2Kbps	Left side	1	9538	1907.6	23.37	24.00	1.156	0.08	0.207	0.239
	WCDMA Band II	RMC 12.2Kbps	Right side	1	9538	1907.6	23.37	24.00	1.156	0.03	0.135	0.156
	WCDMA Band II	RMC 12.2Kbps	Bottom side	1	9538	1907.6	23.37	24.00	1.156	-0.01	0.567	0.656
#11	WCDMA Band II	RMC 12.2Kbps	Back	1	9262	1852.4	22.94	24.00	1.276	-0.02	0.737	0.941
	WCDMA Band II	RMC 12.2Kbps	Back	1	9400	1880	23.20	24.00	1.202	80.0	0.730	0.878

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<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b, 1Mbps	Front	1	11	2462	15.22	15.50	1.067	97.67	1.024	0.18	0.158	0.173
	WLAN2.4GHz	802.11b, 1Mbps	Back	1	11	2462	15.22	15.50	1.067	97.67	1.024	0.04	0.177	0.193
	WLAN2.4GHz	802.11b, 1Mbps	Right side	1	11	2462	15.22	15.50	1.067	97.67	1.024	0.02	0.109	0.119
#12	WLAN2.4GHz	802.11b, 1Mbps	Top side	1	11	2462	15.22	15.50	1.067	97.67	1.024	-0.06	0.218	<mark>0.238</mark>
	WLAN2.4GHz	802.11b, 1Mbps	Top side	1	1	2412	14.82	15.50	1.169	97.67	1.024	0.09	0.184	0.220
	WLAN2.4GHz	802.11b, 1Mbps	Top side	1	6	2437	14.96	15.50	1.132	97.67	1.024	0.06	0.204	0.237
	WLAN2.4GHz	802.11n-HT40, MCS0	Top side	1	6	2437	12.14	12.50	1.086	78.10	1.280	-0.04	0.081	0.113
	WLAN2.4GHz	802.11b, 1Mbps	Back	1	1	2412	14.82	15.50	1.169	97.67	1.024	0.06	0.167	0.200
	WLAN2.4GHz	802.11b, 1Mbps	Back	1	6	2437	14.96	15.50	1.132	97.67	1.024	0.08	0.166	0.192
	WLAN2.4GHz	802.11n-HT40, MCS0	Back	1	6	2437	12.14	12.50	1.086	78.10	1.280	-0.02	0.081	0.113

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15.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	-	128	824.2	28.37	28.50	1.030	-0.04	0.861	0.887
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	-	128	824.2	28.37	28.50	1.030	-0.01	1.150	1.185
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	-	189	836.4	28.29	28.50	1.050	-0.02	0.869	0.912
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	-	251	848.8	28.27	28.50	1.054	-0.01	0.882	0.930
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	-	189	836.4	28.29	28.50	1.050	0.02	1.170	1.228
#07	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	-	251	848.8	28.27	28.50	1.054	0.04	1.190	1.255
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	Headset	251	848.8	28.27	28.50	1.054	-0.02	0.884	0.932
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	Headset	128	824.2	28.37	28.50	1.030	0.02	0.768	0.791
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	Headset	189	836.4	28.29	28.50	1.050	-0.02	0.830	0.871
	GSM1900	GPRS (GMSK 4 Tx slots)	Front	1	-	810	1909.8	26.76	27.00	1.057	0.01	0.581	0.614
	GSM1900	GPRS (GMSK 4 Tx slots)	Back	1	-	810	1909.8	26.76	27.00	1.057	0.12	0.631	0.667
#08	GSM1900	GPRS (GMSK 4 Tx slots)	Back	1	-	512	1850.2	26.72	27.00	1.067	0.16	0.722	0.770
	GSM1900	GPRS (GMSK 4 Tx slots)	Back	1	-	661	1880	26.75	27.00	1.059	0.16	0.675	0.715

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Front	1	-	4132	826.4	23.45	24.00	1.135	0.01	0.730	0.829
	WCDMA Band V	RMC 12.2Kbps	Back	1	-	4132	826.4	23.45	24.00	1.135	0.04	0.866	0.983
	WCDMA Band V	RMC 12.2Kbps	Front	1	-	4182	836.4	23.27	24.00	1.183	0.01	0.706	0.835
	WCDMA Band V	RMC 12.2Kbps	Front	1	-	4233	846.6	23.40	24.00	1.148	0.01	0.747	0.858
#09	WCDMA Band V	RMC 12.2Kbps	Back	1	-	4182	836.4	23.27	24.00	1.183	0.03	0.860	1.017
	WCDMA Band V	RMC 12.2Kbps	Back	1	-	4233	846.6	23.40	24.00	1.148	0.01	0.869	0.998
	WCDMA Band IV	RMC 12.2Kbps	Front	1	-	1312	1712.4	23.62	24.00	1.091	0.08	0.430	0.469
	WCDMA Band IV	RMC 12.2Kbps	Back	1	-	1312	1712.4	23.62	24.00	1.091	0.08	0.517	0.564
#10	WCDMA Band IV	RMC 12.2Kbps	Back	1	-	1413	1732.6	23.42	24.00	1.143	0.1	0.721	<mark>0.824</mark>
	WCDMA Band IV	RMC 12.2Kbps	Back	1	-	1513	1752.6	23.52	24.00	1.117	0.07	0.666	0.744
	WCDMA Band II	RMC 12.2Kbps	Front	1	-	9538	1907.6	23.37	24.00	1.156	-0.09	0.672	0.777
	WCDMA Band II	RMC 12.2Kbps	Back	1	-	9538	1907.6	23.37	24.00	1.156	0.06	0.714	0.825
#11	WCDMA Band II	RMC 12.2Kbps	Back	1	-	9262	1852.4	22.94	24.00	1.276	-0.02	0.737	0.941
	WCDMA Band II	RMC 12.2Kbps	Back	1	-	9400	1880	23.20	24.00	1.202	0.08	0.730	0.878

<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b, 1Mbps	Front	1	-	11	2462	15.22	15.50	1.067	97.67	1.024	0.18	0.158	0.173
	WLAN2.4GHz	802.11b, 1Mbps	Back	1	-	11	2462	15.22	15.50	1.067	97.67	1.024	0.04	0.177	0.193
	WLAN2.4GHz	802.11b, 1Mbps	Back	1	Headset	11	2462	15.22	15.50	1.067	97.67	1.024	0.06	0.161	0.176
#13	WLAN2.4GHz	802.11b, 1Mbps	Back	1	-	1	2412	14.82	15.50	1.169	97.67	1.024	0.06	0.167	0.200
	WLAN2.4GHz	802.11b, 1Mbps	Back	1	-	6	2437	14.96	15.50	1.132	97.67	1.024	0.08	0.166	0.192
	WLAN2.4GHz	802.11n-HT40,MCS0	Back	1	-	6	2437	12.14	12.50	1.086	78.10	1.280	-0.02	0.081	0.113

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15.4 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (cm)	Ch.		Dower	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	802.11b, 1Mbps	Left Cheek	ı	6	2437	14.96	15.50	1.132	97.67	1.024	0.02	0.956	1	1.109
2nd	WLAN2.4GHz	802.11b, 1Mbps	Left Cheek	-	6	2437	14.96	15.50	1.132	97.67	1.024	0.11	0.933	1.025	1.082
1st	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	28.27	28.50	1.054	-	-	0.04	1.190	1	1.255
2nd	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	28.27	28.50	1.054	-	-	0.01	1.180	1.009	1.244

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General Note:

- 1. Per KDB 865664 D01v01r03, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg
- 2. Per KDB 865664 D01v01r03, if the ratio among the repeated measurement is \leq 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. The ratio is the difference in percentage between original and repeated measured SAR.
- 4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

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16. Simultaneous Transmission Analysis

NI-	0'		Smartphone		Note
No.	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Note
1.	GSM(Voice) + WLAN2.4GHz(data)	Yes	Yes	-	-
2.	WCDMA(Voice) + WLAN2.4GHz(data)	Yes	Yes	-	-
3.	GSM(Voice) + Bluetooth(data)	Yes	Yes	-	-
4.	WCDMA((Voice) + Bluetooth(data)	Yes	Yes	-	-
5.	GPRS/EDGE(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
6.	WCDMA(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
7.	GPRS/EDGE(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering
8.	WCDMA(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering

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General Note:

- This device 2.4GHz WLAN supports Hotspot operation. 1.
- 2. This device supported VoIP in GPRS, EGPRS, WCDMA (e.g. 3rd party VoIP).
- WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously. 3.
- EUT will choose each GSM or WCDMA according to the network signal condition; therefore, they will not operate 4. simultaneously at any moment.
- The Reported SAR summation is calculated based on the same configuration and test position. 5.
- Per KDB 447498 D01v05r02, simultaneous transmission SAR is compliant if,

 - i) Scalar SAR summation < 1.6W/kg.
 ii) SPLSR = (SAR₁ + SAR₂)^{1.5} / (*min. separation distance, mm*), and the peak separation distance is determined from the square root of [(x₁-x₂)² + (y₁-y₂)² + (z₁-z₂)²], where (x₁, y₁, z₁) and (x₂, y₂, z₂) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary
 - 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 D01v05r02 based on the formula below.
 - i) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√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	Hotspot	Body worn
Max Power	Test separation	0 mm	10 mm	10 mm
5 dBm	Estimated SAR (W/kg)	0.126 W/kg	0.063 W/kg	0.063 W/kg

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16.1 Head Exposure Conditions

<WWAN + WLAN>

		Exposure	WWAN PCE	WLAN DTS	Summed		
WWA	N Band	Position	SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.679	0.545	1.22		
	GSM850	Right Tilted	0.415	0.509	0.92		
	GSIVI650	Left Cheek	0.814	1.111	1.93	0.04	#01
GSM		Left Tilted	0.447	0.585	1.03		
GSIVI		Right Cheek	0.341	0.545	0.89		
	GSM1900	Right Tilted	0.230	0.509	0.74		
	G3W1900	Left Cheek	0.424	1.111	<mark>1.54</mark>		
		Left Tilted	0.194	0.585	0.78		
		Right Cheek	0.669	0.545	1.21		
	Band V	Right Tilted	0.394	0.509	0.90		
	Danu v	Left Cheek	0.789	1.111	1.90	0.04	#02
		Left Tilted	0.386	0.585	0.97		
		Right Cheek	0.192	0.545	0.74		
WCDMA	Band IV	Right Tilted	0.145	0.509	0.65		
VVCDIVIA	Danu IV	Left Cheek	0.344	1.111	1.46		
		Left Tilted	0.114	0.585	0.70		
		Right Cheek	0.414	0.545	0.96		
	Band II	Right Tilted	0.280	0.509	0.79		
	Dang II	Left Cheek	0.540	1.111	1.65	0.03	#03
		Left Tilted	0.230	0.585	0.82		

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<WWAN + Bluetooth>

1AWW	N Band	Exposure Position	WWAN PCE SAR (W/kg)	Bluetooth DSS Estimated SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.679	0.126	0.81		
	GSM850	Right Tilted	0.415	0.126	0.54		
	GSIVI650	Left Cheek	0.814	0.126	0.94		
GSM		Left Tilted	0.447	0.126	0.57		
GSIVI		Right Cheek	0.341	0.126	0.47		
	GSM1900	Right Tilted	0.230	0.126	0.36		
	GSW1900	Left Cheek	0.424	0.126	0.55		
		Left Tilted	0.194	0.126	0.32		
		Right Cheek	0.669	0.126	0.80		
	Band V	Right Tilted	0.394	0.126	0.52		
	Band v	Left Cheek	0.789	0.126	0.92		
		Left Tilted	0.386	0.126	0.51		
		Right Cheek	0.192	0.126	0.32		
WCDMA	Band IV	Right Tilted	0.145	0.126	0.27		
VVCDIVIA	Banu IV	Left Cheek	0.344	0.126	0.47		
		Left Tilted	0.114	0.126	0.24		
		Right Cheek	0.414	0.126	0.54		
	Band II	Right Tilted	0.280	0.126	0.41		
	Danu II	Left Cheek	0.540	0.126	0.67		
		Left Tilted	0.230	0.126	0.36		

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16.2 Hotspot Exposure Conditions

<WWAN + WLAN>

CVVVAN + VVL			WWAN PCE	WLAN DTS	Summed		
WWAI	N Band	Exposure Position	SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.930	0.173	1.10		
		Back	1.255	0.200	1.46		
	GSM850	Left side	0.970		0.97		
	OSIVIOSO	Right side	0.883	0.119	1.00		
		Top side		0.238	0.24		
GSM		Bottom side	0.076		0.08		
GSIVI		Front	0.614	0.173	0.79		
		Back	0.770	0.200	0.97		
	GSM1900	Left side	0.201		0.20		
	GSW1900	Right side	0.127	0.119	0.25		
		Top side		0.238	0.24		
		Bottom side	0.565		0.57		
	Band V	Front	0.858	0.173	1.03		
		Back	1.017	0.200	1.22		
		Left side	0.731		0.73		
		Right side	0.703	0.119	0.82		
		Top side		0.238	0.24		
		Bottom side	0.060		0.06		
		Front	0.469	0.173	0.64		
		Back	0.824	0.200	1.02		
WCDMA	Band IV	Left side	0.096		0.10		
VVCDIVIA	Danu IV	Right side	0.109	0.119	0.23		
		Top side		0.238	0.24		
		Bottom side	0.242		0.24		
		Front	0.777	0.173	0.95		
		Back	0.941	0.200	1.14		
	Band II	Left side	0.239		0.24		
	Danu II	Right side	0.156	0.119	0.28		
		Top side		0.238	0.24		
		Bottom side	0.656		0.66		

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<WWAN + Bluetooth>

			WWAN PCE	Bluetooth DSS	Summed		
WWA	N Band	Exposure Position	SAR (W/kg)	Estimated SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.930	0.063	0.99		
		Back	1.255	0.063	1.32		
	GSM850	Left side	0.970		0.97		
	GSIVI650	Right side	0.883	0.063	0.95		
		Top side		0.063	0.06		
GSM		Bottom side	0.076		0.08		
GSIVI		Front	0.614	0.063	0.68		
		Back	0.770	0.063	0.83		
	GSM1900	Left side	0.201		0.20		
	GSW1900	Right side	0.127	0.063	0.19		
		Top side		0.063	0.06		
		Bottom side	0.565		0.57		
		Front	0.858	0.063	0.92		
		Back	1.017	0.063	1.08		
	Band V	Left side	0.731		0.73		
	band v	Right side	0.703	0.063	0.77		
		Top side		0.063	0.06		
		Bottom side	0.060		0.06		
		Front	0.469	0.063	0.53		
		Back	0.824	0.063	0.89		
MCDMA	D = = 4 1) /	Left side	0.096		0.10		
WCDMA	Band IV	Right side	0.109	0.063	0.17		
		Top side		0.063	0.06		
		Bottom side	0.242		0.24		
		Front	0.777	0.063	0.84		
		Back	0.941	0.063	1.00		
	Band II	Left side	0.239		0.24		
	Danu II	Right side	0.156	0.063	0.22		
		Top side		0.063	0.06		
		Bottom side	0.656		0.66		

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16.3 Body-Worn Accessory Exposure Conditions

<WWAN + WLAN>

			WWAN PCE	WLAN DTS	Summed		
WWAN	Band	Exposure Position	SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.930	0.173	1.10		
	GSM850	Back	1.255	0.200	1.46		
GSM		Back with Headset	0.932	0.176	1.11		
	GSM1900	Front	0.614	0.173	0.79		
		Back	0.770	0.200	0.97		
	Band V	Front	0.858	0.173	1.03		
	вапи у	Back	1.017	0.200	1.22		
WCDMA	Band IV	Front	0.469	0.173	0.64		
VVCDIVIA	Danu IV	Back	0.824	0.200	1.02		
	Pand II	Front	0.777	0.173	0.95		
	Band II	Back	0.941	0.200	1.14		

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<WWAN + Bluetooth>

			WWAN PCE	Bluetooth DSS	Summed		
WWAN	Band	Exposure Position	SAR (W/kg)	Estimated SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.930	0.063	0.99		
	GSM850	Back	1.255	0.063	1.32		
GSM		Back with Headset	0.932	0.063	1.00		
	GSM1900	Front	0.614	0.063	0.68		
		Back	0.770	0.063	0.83		
	Band V	Front	0.858	0.063	0.92		
	banu v	Back	1.017	0.063	1.08		
WCDMA	Band IV	Front	0.469	0.063	0.53		
WCDIVIA	Danu IV	Back	0.824	0.063	0.89		
	Band II	Front	0.777	0.063	0.84		
	Dana II	Back	0.941	0.063	1.00		

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16.4 SPLSR Evaluation and Analysis

General Note:

SPLSR = $(SAR_1 + SAR_2)^{1.5} / (min. separation distance, mm)$. If SPLSR ≤ 0.04 , simultaneously transmission SAR measurement is not necessary

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	Band	Decition	SAR	Gap	SAR pe	eak location	on (m)	3D	Summed	SPLSR	Simultaneous
Case		Position	(W/kg)	(cm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
#01	GSM850	Left Cheek	0.814	0	0.0663	0.268	-0.174	66.8	1.93	0.04	Not required
	WLAN2.4GHz	Leit Cheek	1.111	0	0.0284	0.323	-0.173	00.0	1.95	0.04	Not required
$\begin{array}{c} dB \\ 0 \\ -4.59 \\ -9.18 \\ -13.77 \\ -18.36 \\ -22.95 \\ 0 \ dB = 1.47 \ \text{W/kg} \end{array}$											

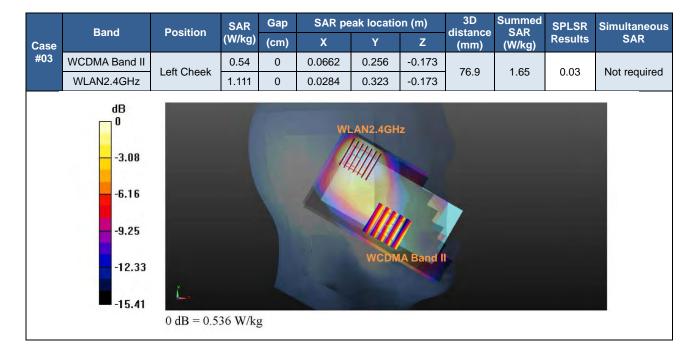
	Band	Position	SAR				on (m)	3D distance	Summed SAR	SPLSR	Simultaneous
Case	Ballu	Position	(W/kg)	(cm)	Х	Υ	Z	(mm)	(W/kg)	Results	SAR
#02	WCDMA Band V	Left Cheek	0.789	0	0.0678	0.271	-0.174	65.2	1.90	0.04	Not required
	WLAN2.4GHz	Leit Grieek	1.111	0	0.0284	0.323	-0.173	03.2	1.90	0.04	Not required
	-1.90 -3.80 -5.71 -7.61	0 dB = 0.79	2 W/kg			LAN2.4GI	Hz DMA Ban	d V			

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17. 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 17.1. 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 Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)		
Measurement System	•								
Probe Calibration	6.0	Normal	1	1	1	± 6.0 %	± 6.0 %		
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %		
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %		
Boundary Effects	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %		
Linearity	4.7	Rectangular	√3	1	1	± 2.7 %	± 2.7 %		
System Detection Limits	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %		
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %		
Response Time	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %		
Integration Time	2.6	Rectangular	√3	1	1	± 1.5 %	± 1.5 %		
RF Ambient Noise	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %		
RF Ambient Reflections	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %		
Probe Positioner	0.4	Rectangular	√3	1	1	± 0.2 %	± 0.2 %		
Probe Positioning	2.9	Rectangular	√3	1	1	± 1.7 %	± 1.7 %		
Max. SAR Eval.	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %		
Test Sample Related									
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %		
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %		
Power Drift	5.0	Rectangular	√3	1	1	± 2.9 %	± 2.9 %		
Phantom and Setup									
Phantom Uncertainty	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %		
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	± 1.8 %	± 1.2 %		
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	0.43	± 1.6 %	± 1.1 %		
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	0.49	± 1.7 %	± 1.4 %		
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	0.49	± 1.5 %	± 1.2 %		
Combined Standard Uncertainty	Combined Standard Uncertainty								
Coverage Factor for 95 %	K	=2							
Expanded Uncertainty	± 22.0 %	± 21.5 %							

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Table 17.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

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18. 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
- [3] IEEE Std. 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v01r02, "SAR Measurement Procedures for 802.11 a/b/g Transmitters", May 2007
- [6] FCC KDB 447498 D01 v05r02, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Feb 2014
- [7] FCC KDB 648474 D04 v01r02, "SAR Evaluation Considerations for Wireless Handsets", Dec 2013.
- [8] FCC KDB 941225 D01 v03, "3G SAR MEAUREMENT PROCEDURES", Oct 2014
- [9] FCC KDB 941225 D06 v02, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2014.
- [10] FCC KDB 865664 D01 v01r03, "SAR Measurement Requirements for 100 MHz to 6 GHz", Feb 2014.
- [11] FCC KDB 865664 D02 v01r01, "RF Exposure Compliance Reporting and Documentation Considerations" May 2013.

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Plots of System Performance Check Appendix A.

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The plots are shown as follows.

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System Check_Head_835MHz_150409

DUT: D835V2-SN:4d091

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

Medium: HSL_835_150409 Medium parameters used: f = 835 MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 42.038$; $\rho = 0.919$ S/m; $\epsilon_r = 42.038$; $\epsilon_r = 42.038$

 1000 kg/m^3

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

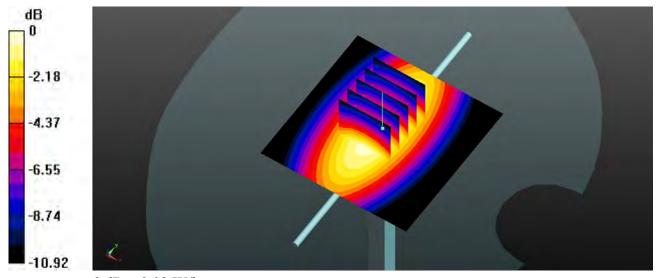
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- 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) = 3.00 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 54.63 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 3.59 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.54 W/kgMaximum value of SAR (measured) = 3.02 W/kg



0 dB = 3.02 W/kg

System Check Head 1750MHz 150409

DUT: D1750V2-SN:1069

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750_150409 Medium parameters used: f = 1750 MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 40.704$; ρ

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

Ambient Temperature: 23.7 °C; Liquid Temperature: 22.4 °C

DASY5 Configuration:

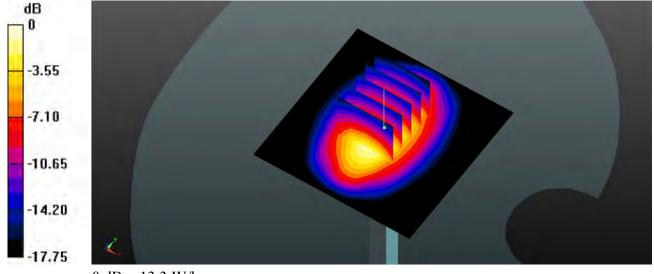
- Probe: EX3DV4 SN3911; ConvF(8.18, 8.18, 8.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.6 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 100.5 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.40 W/kg; SAR(10 g) = 4.96 W/kgMaximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg

System Check Head 1900MHz 150409

DUT: D1900V2-SN:5d118

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

Medium: HSL_1900_150409 Medium parameters used: f = 1900 MHz; $\sigma = 1.455$ S/m; $\varepsilon_r = 40.846$; ρ

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

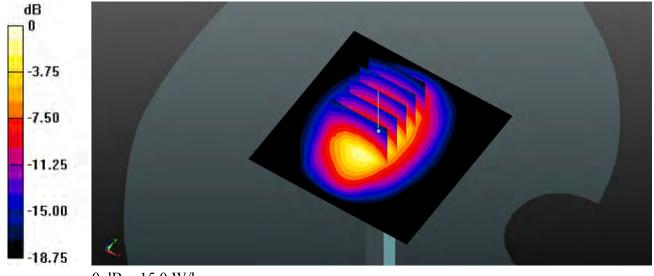
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 15.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 100.7 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 19.4 W/kg

SAR(1 g) = 10.60 W/kg; SAR(10 g) = 5.48 W/kg

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



0 dB = 15.0 W/kg

System Check Head 2450MHz 150411

DUT: D2450V2-SN:840

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

Medium: HSL 2450 150411 Medium parameters used: f = 2450 MHz; $\sigma = 1.845$ S/m; $\varepsilon_r = 37.668$; ρ

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

Ambient Temperature: 23.6°C; Liquid Temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.05, 7.05, 7.05); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

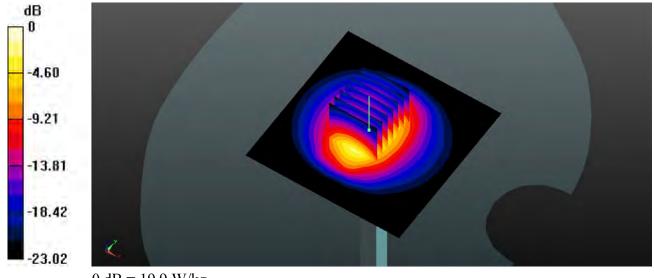
Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 19.8 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 86.71 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 12.80 W/kg; SAR(10 g) = 5.87 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2015/4/7

System Check Body 835MHz 150407

DUT: D835V2-SN:4d091

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

Medium: MSL_835_150407 Medium parameters used: f = 835 MHz; $\sigma = 0.977$ S/m; $\epsilon_r = 54.442$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

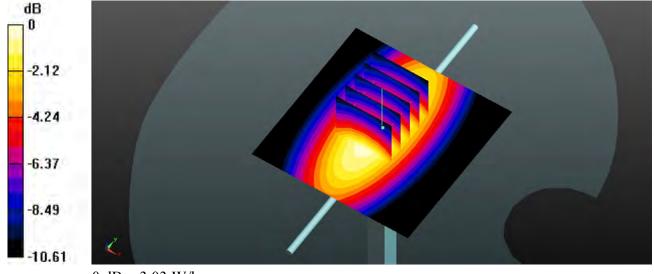
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- 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) = 3.03 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 50.97 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.59 W/kg SAR(1 g) = 2.39 W/kg: SAR(10 g) = 1.57 W/kg

SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.57 W/kgMaximum value of SAR (measured) = 3.03 W/kg



0 dB = 3.03 W/kg

System Check Body 1750MHz 150408

DUT: D1750V2-SN:1069

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL_1750_150408 Medium parameters used: f = 1750 MHz; σ = 1.478 S/m; ϵ_r = 53.521; ρ

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

Ambient Temperature : 23.8 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

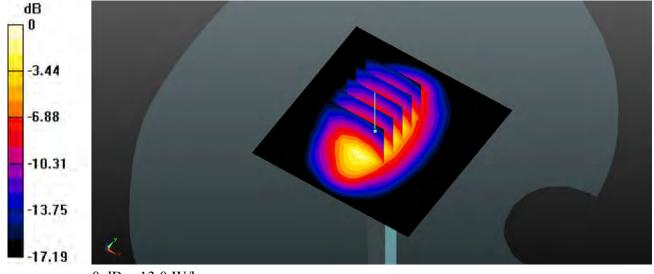
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 95.07 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 9.42 W/kg; SAR(10 g) = 4.98 W/kg

Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg

System Check Body 1900MHz 150407

DUT: D1900V2-SN:5d118

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

Medium: MSL_1900_150407 Medium parameters used: f = 1900 MHz; $\sigma = 1.556$ S/m; $\epsilon_r = 53.087$; ρ

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

Ambient Temperature: 23.4°C; Liquid Temperature: 22.3°C

DASY5 Configuration:

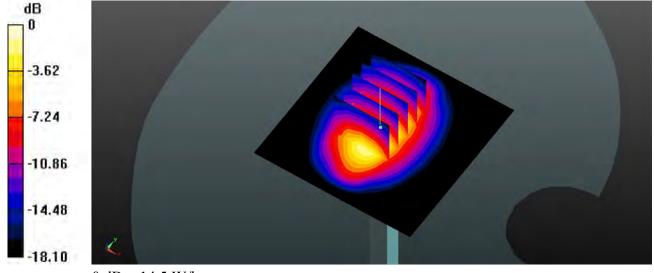
- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 84.98 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 18.4 W/kg

Peak SAR (extrapolated) – 18.4 W/kg

SAR(1 g) = 10.30 W/kg; SAR(10 g) = 5.34 W/kgMaximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg

System Check Body 2450MHz 150411

DUT: D2450V2-SN:840

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

Medium: MSL 2450 150411 Medium parameters used: f = 2450 MHz; $\sigma = 1.984$ S/m; $\varepsilon_r = 51.165$; ρ

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.18, 7.18, 7.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

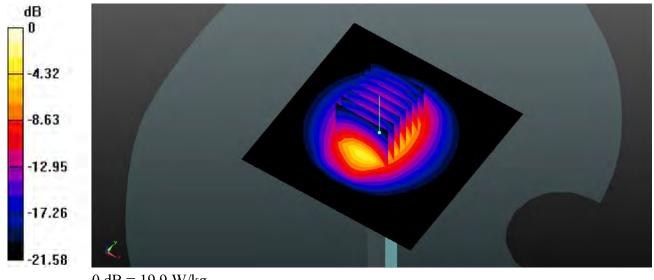
Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 19.8 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 85.32 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 13.00 W/kg; SAR(10 g) = 5.99 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg

Appendix B. Plots of High SAR Measurement

Report No.: FA532405

The plots are shown as follows.

SPORTON INTERNATIONAL (XI'AN) INC.

#01 GSM850_GPRS (GMSK 4 Tx slots)_Left Cheek_Ch251

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Date: 2015/4/9

Medium: HSL_835_150409 Medium parameters used: f = 848.8 MHz; $\sigma = 0.931$ S/m; $\varepsilon_r = 41.88$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.897 W/kg

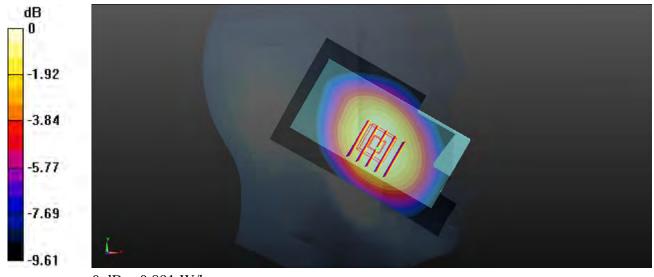
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.071 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.991 W/kg

SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.575 W/kg

Maximum value of SAR (measured) = 0.891 W/kg



0 dB = 0.891 W/kg

#02 GSM1900_GPRS (GMSK 4 Tx slots)_Left Cheek_Ch661

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:2.08

Medium: HSL_1900_150409 Medium parameters used: f = 1880 MHz; $\sigma = 1.433$ S/m; $\epsilon_r = 40.932$; $\rho = 1000 \text{ kg/m}^3$

Date: 2015/4/9

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.503 W/kg

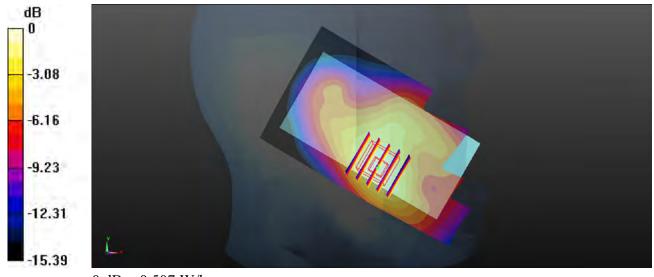
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.889 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.599 W/kg

SAR(1 g) = 0.400 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.507 W/kg



0 dB = 0.507 W/kg

#03 WCDMA Band V_RMC 12.2Kbps_Left Cheek_Ch4233

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

Medium: HSL_835_150409 Medium parameters used: f = 846.6 MHz; $\sigma = 0.929$ S/m; $\epsilon_r = 41.905$; $\rho = 1000$ kg/m³

Date: 2015/4/9

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

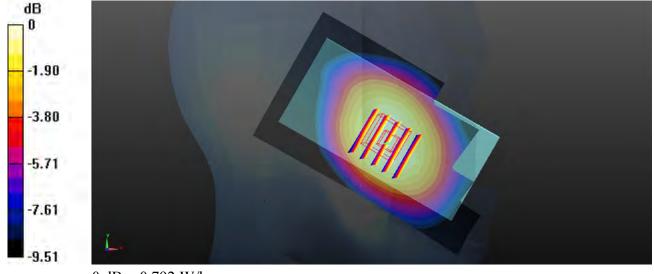
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.791 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.504 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 0.872 W/kg SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.518 W/kg

Maximum value of SAR (measured) = 0.792 W/kg



0 dB = 0.792 W/kg

#04 WCDMA Band IV_RMC 12.2Kbps_Left Cheek_Ch1413

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL_1750_150409 Medium parameters used: f = 1732.6 MHz; σ = 1.347 S/m; $ε_r = 40.761$; ρ = 1000 kg/m³

Date: 2015/4/9

Ambient Temperature : 23.7 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.18, 8.18, 8.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

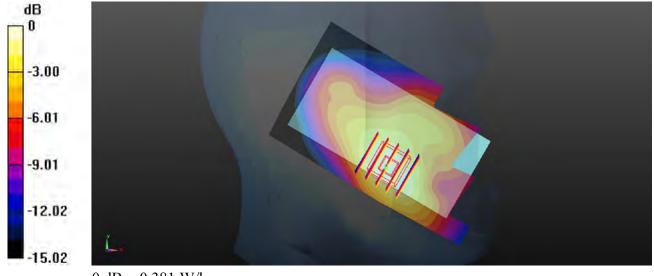
Ch1413/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.379 W/kg

Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.576 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.381 W/kg



0 dB = 0.381 W/kg

#05 WCDMA Band II RMC 12.2Kbps Left Cheek Ch9262

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

Medium: HSL 1900 150409 Medium parameters used: f = 1852.4 MHz; $\sigma = 1.404$ S/m; $\varepsilon_r = 41.056$; $\rho = 1000 \text{ kg/m}^3$

Date: 2015/4/9

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

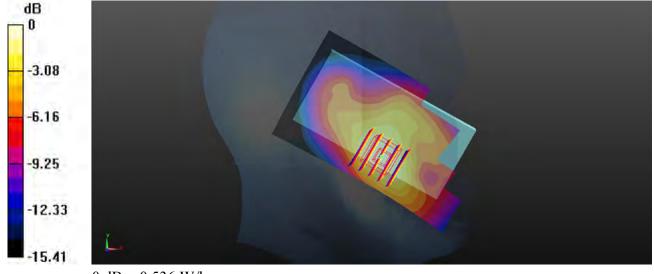
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.524 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.034 V/m; Power Drift = 0.06 dBPeak SAR (extrapolated) = 0.637 W/kgSAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.262 W/kg

Maximum value of SAR (measured) = 0.536 W/kg



0 dB = 0.536 W/kg

#06 WLAN 2.4GHz 802.11b, 1Mbps Left Cheek Ch1

Communication System: UID 0, 802.11b (0); Frequency: 2412 MHz; Duty Cycle: 1:1.024 Medium: HSL_2450_150411 Medium parameters used: f = 2412 MHz; $\sigma = 1.803$ S/m; $\epsilon_r = 37.835$; $\rho = 1000$ kg/m³

Date: 2015/4/11

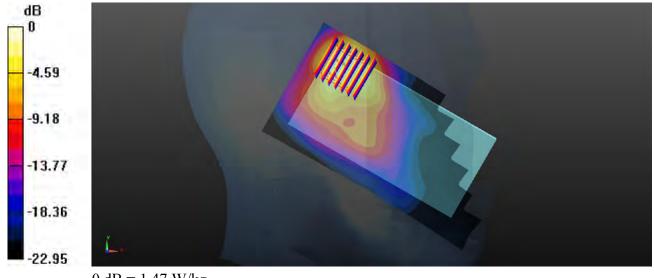
Ambient Temperature: 23.6°C; Liquid Temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.05, 7.05, 7.05); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1/Area Scan (71x131x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 1.72 W/kg

Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.996 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 2.12 W/kg SAR(1 g) = 0.928 W/kg; SAR(10 g) = 0.446 W/kg Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg

#07 GSM850_GPRS (GMSK 4 Tx slots)_Back_1.0cm_Ch251

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium: MSL_835_150407 Medium parameters used: f = 848.8 MHz; $\sigma = 0.994$ S/m; $\epsilon_r = 54.333$; $\rho = 1000$ kg/m³

Date: 2015/4/7

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.39 W/kg

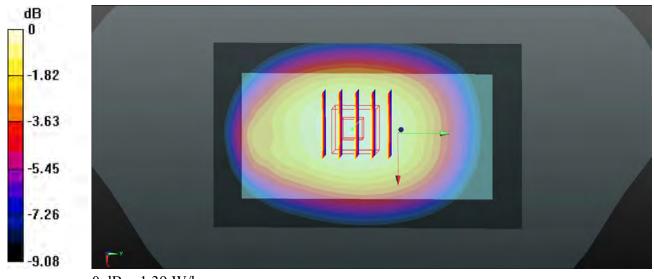
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.83 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 1.190 W/kg; SAR(10 g) = 0.887 W/kg

Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.39 W/kg

#08 GSM1900_GPRS (GMSK 4 Tx slots)_Back_1.0cm_Ch512

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Date: 2015/4/7

Medium: MSL_1900_150407 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.498$ S/m; $\epsilon_r = 53.217$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.995 W/kg

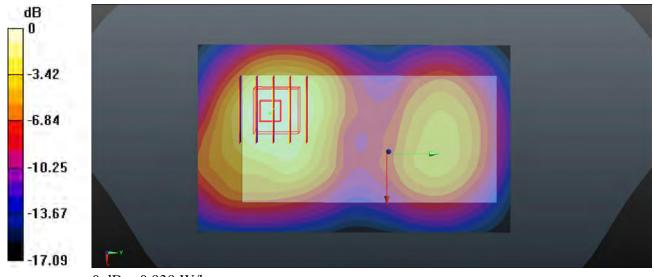
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.613 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.436 W/kg

Maximum value of SAR (measured) = 0.939 W/kg



0 dB = 0.939 W/kg

#09 WCDMA Band V RMC 12.2Kbps Back 1.0cm Ch4182

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: MSL_835_150407 Medium parameters used: f = 836.4 MHz; $\sigma = 0.979$ S/m; $\varepsilon_r = 54.429$; ρ

Date: 2015/4/7

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4182/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.999 W/kg

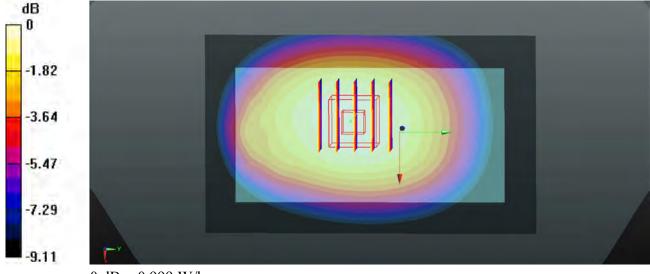
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.62 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.643 W/kg

Maximum value of SAR (measured) = 0.999 W/kg



0 dB = 0.999 W/kg

#10 WCDMA Band IV_RMC 12.2Kbps_Back_1.0cm_Ch1413

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1 Medium: MSL_1750_150408 Medium parameters used: f = 1732.6 MHz; $\sigma = 1.461$ S/m; $\epsilon_r = 53.582$; $\rho = 1000$ kg/m³

Date: 2015/4/8

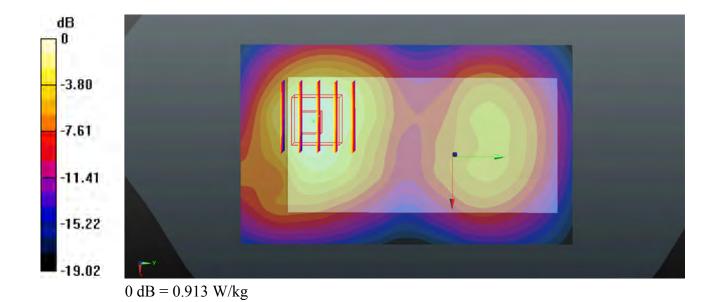
Ambient Temperature: 23.8°C; Liquid Temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1413/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.998 W/kg

Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.675 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 1.21 W/kg SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.424 W/kg Maximum value of SAR (measured) = 0.913 W/kg



#11 WCDMA Band II_RMC 12.2Kbps_Back_1.0cm_Ch9262

Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium: MSL_1900_150407 Medium parameters used: f = 1852.4 MHz; $\sigma = 1.5$ S/m; $\epsilon_r = 53.209$; $\rho = 1000$ kg/m³

Date: 2015/4/7

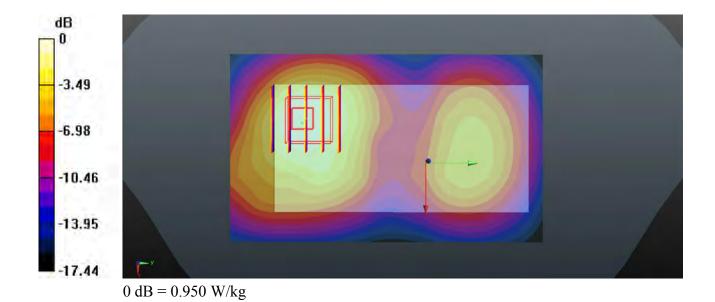
Ambient Temperature: 23.4°C; Liquid Temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (61x101x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.02 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.669 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 1.18 W/kg SAR(1 g) = 0.737 W/kg; SAR(10 g) = 0.448 W/kg Maximum value of SAR (measured) = 0.950 W/kg



#12 WLAN 2.4GHz_802.11b, 1Mbps_Top side_1.0cm_Ch11

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1.024 Medium: MSL_2450_150411 Medium parameters used: f = 2462 MHz; $\sigma = 2.002$ S/m; $\epsilon_r = 51.118$; $\rho = 1000$ kg/m³

Date: 2015/4/11

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

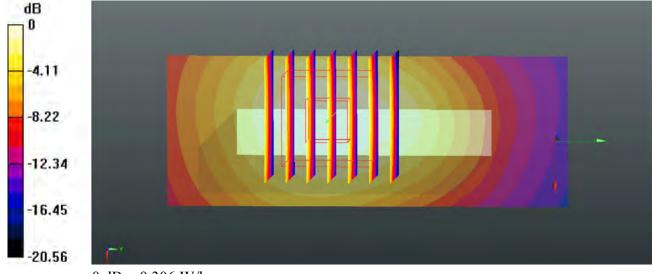
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.18, 7.18, 7.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (31x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.309 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.116 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.398 W/kg SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.119 W/kg

Maximum value of SAR (measured) = 0.306 W/kg



0 dB = 0.306 W/kg

#13 WLAN 2.4GHz_802.11b, 1Mbps_Back_1.0cm_Ch1

Communication System: UID 0, 802.11b (0); Frequency: 2412 MHz; Duty Cycle: 1:1.024 Medium: MSL_2450_150411 Medium parameters used: f = 2412 MHz; $\sigma = 1.933$ S/m; $\epsilon_r = 51.307$; $\rho = 1000$ kg/m³

Date: 2015/4/11

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.18, 7.18, 7.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1/Area Scan (71x131x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.225 W/kg

Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.577 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.288 W/kg SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.097 W/kg Maximum value of SAR (measured) = 0.226 W/kg

