FCC SAR Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT : Mobile phone

BRAND NAME : BLU

MODEL NAME : LIFE ONE X3

FCC ID : YHLBLULIFEONEX3

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2013

We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.

Mark Qu

Approved by: Mark Qu / Manager

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Revision History

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA790406	Rev. 01	Initial issue of report	Sep. 30, 2017

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for BLU Products, Inc., Mobile phone, LIFE ONE X3, are as follows.

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			Hiç	ghest SAR Summa	ary	Highest
Equipment Freque Class Bar			Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 10mm)	Simultaneous Transmission 1g SAR
				1g SAR (W/kg)		(W/kg)
	GSM	GSM850	0.43	0.68	0.68	
	GSIVI	GSM1900	0.17	0.91	0.60	
		Band V	0.18	0.28	0.28	
	WCDMA	Band IV	0.29	0.79	0.79	
Licensed		Band II	0.16	0.91	0.59	1.08
		Band 12/17	<0.10	<0.10	<0.10	
	LTE	Band 4	0.34	0.89	0.89	
	LTE	Band 2	0.20	1.08	0.72	
		Band 7	<0.10	0.47	0.45	
DTS	WLAN	2.4GHz WLAN	0.40	0.13	0.13	1.08
Date of Testing:				2017/9/6 ~	2017/9/10	

Remark:

This device supports both LTE B12 and B17. Since the supported frequency span for LTE B17 falls completely within the supports frequency span for LTE B12, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B12.

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 1528-2013 and FCC KDB publications.

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2. Administration Data

Testing Laboratory					
Test Site	Sporton International (Shenzhen) Inc.				
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595				

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Applicant				
Company Name BLU Products, Inc.				
Address	10814 NW 33rd St # 100 Doral, FL 33172			

Manufacturer				
Company Name	BLU Products, Inc.			
Address	10814 NW 33rd St # 100 Doral, FL 33172			

3. Guidance Applied

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

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4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification					
Equipment Name	Mobile phone				
Brand Name	BLU				
Model Name	LIFE ONE X3				
FCC ID	YHLBLULIFEONEX3				
IMEI Code	SIM1: 351372098270539 SIM2: 351372098270547				
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ LTE 802.11b/g/n HT20/HT40 Bluetooth v3.0 + EDR, Bluetooth v4.0 LE				
HW Version	V1.0				
SW Version	BLU_LifeOneX3_V7.0.01.00_GENERIC_30-08-2017_21:20				
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	Identical Prototype				
Remark:					

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- 1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP).
- This device 2.4GHz WLAN support hotspot operation.
- 3. This device does not support DTM operation and support GRPS/EGRPS mode up to multi-slot class 12.
- 4. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.

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4.2 General LTE SAR Test and Reporting Considerations

Summarized r	eces	ssary items	address	sed in KE)B 941	225 D05	v02r05		
FCC ID	YHL	BLULIFEON	NEX3						
Equipment Name	Mob	Mobile phone							
Operating Frequency Range of each LTE transmission band	LTE LTE LTE	TE Band 2: 1850.7 MHz ~ 1909.3 MHz TE Band 4: 1710.7 MHz ~ 1754.3 MHz TE Band 7: 2502.5 MHz ~ 2567.5 MHz TE Band 12: 699.7 MHz ~ 715.3 MHz TE Band 17: 706.5 MHz ~ 713.5 MHz							
Channel Bandwidth	LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz								
uplink modulations used	QPSK, and 16QAM								
LTE Voice / Data requirements	Data	Only							
LTE Release Version	R9, (Cat 4							
CA Support	Not s	Supported							
		Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3							
		Modulation Channel bandwidth / Transmission bandwidth (RB)				MPR (dB)			
LTE MPR permanently built-in by design			1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
		QPSK	>5	>4	>8	> 12	> 16	> 18	≤1
	\vdash	16 QAM 16 QAM	≤ 5 > 5	≤ 4 > 4	≤8 >8	≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 1 ≤ 2
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI).								
Spectrum Plots for RB Configuration	A properly configured base station simulator was used for the SAR and pover								

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	Transmission (H, M, L) channel numbers and frequencies in each LTE band												
	LTE Band 2												
	Bandwidth	n 1.4 MHz	Bandwid	th 3 MHz	Bandwi	dth 5 MHz	Bandwidth 10 MHz Bandwidt		th 15 MHz Bandwic		th 20 MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Fre (Mh		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	18	55	18675	1857.5	18700	1860
М	18900	1880	18900	1880	18900	1880	18900	188	80	18900	1880	18900	1880
Н	19193	1909.3	19185	1908.5	19175	1907.5	19150	190	05	19125	1902.5	19100	1900
						LTE Ba							
	Bandwidth	n 1.4 MHz	Bandwid		Bandwi	dth 5 MHz	Bandwidt			Bandwidtl		Bandwid	th 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Fre (Ml		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	17	15	20025	1717.5	20050	1720
М	20175	1732.5	20175	1732.5	20175	1732.5	20175	173	2.5	20175	1732.5	20175	1732.5
Н	20393	1754.3	20385	1753.5	20375	1752.5	20350	17	50	20325	1747.5	20300	1745
						LTE Ba							
		ndwidth 5 M			dwidth 10		Bandwidth 15 MHz Bandwidth 20 MF						
	Ch. #		q. (MHz)	Ch. #		eq. (MHz)	Ch. # Freq		eq. (MHz)	Ch. #		eq. (MHz)	
L	20775		2502.5	20800		2505			2507.5	20850		2510	
М	21100		2535	21100		2535	21100			2535	21100		2535
Н	21425	5 2	2567.5	21400		2565	21375 2562.5			21350 2560			
						LTE Baı	-						
		dwidth 1.4			ndwidth 3		Bandwidth 5 MHz		Bandwidth 10				
	Ch. #		q. (MHz)	Ch. #		req. (MHz)			eq. (MHz)	Ch. #		eq. (MHz)	
L	23017		699.7	23025		700.5	23017			699.7	23025		700.5
M H	23095		707.5	23095		707.5	23095			707.5	23095		707.5
Н	23173	5	715.3	23165	•	714.5 LTE Bar	23173	5		715.3	23165)	714.5
			Pandwid	th 5 MUz		LIE Dai	IU 17			Dandwidth	10 MUz		
	Bandwidth 5 MHz			Bandwidth 10 MHz				2)					
		Channel # Freq.(MHz) 23755 706.5		Channel # 23780			Freq. (MHz) 709						
M		23790			710		23790			710			
Н		23825			713.5			238			710		

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5. RF Exposure Limits

5.1 Uncontrolled Environment

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

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5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

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6. Specific Absorption Rate (SAR)

6.1 Introduction

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

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6.2 SAR Definition

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

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

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

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

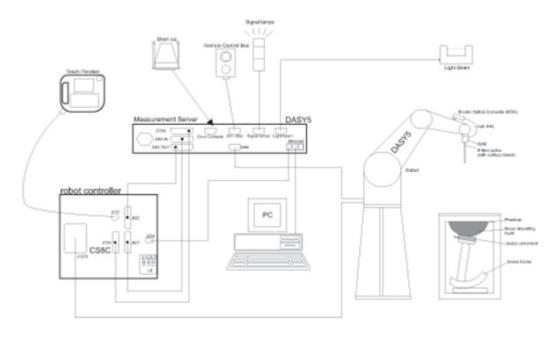
Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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7. System Description and Setup

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



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- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing,
 AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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7.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<EX3DV4 Probe>

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



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7.2 <u>Data Acquisition Electronics (DAE)</u>

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

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



Fig 5.1 Photo of DAE

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7.3 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	7 %
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

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

<ELI Phantom>

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

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

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7.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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





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Mounting Device for Hand-Held Transmitters

Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

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8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

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- (b) Read the WWAN RF power level from the base station simulator.
- (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.

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8.3 Area Scan

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

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

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

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8.4 Zoom Scan

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

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

			≤3 GHz	> 3 GHz		
Maximum zoom scan s	spatial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$		
Maximum zoom scan spatial resolution, normal to phantom surface	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
	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	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	x, y, z		≥ 30 mm	$3 - 4 \text{ GHz:} \ge 28 \text{ mm}$ $4 - 5 \text{ GHz:} \ge 25 \text{ mm}$ $5 - 6 \text{ GHz:} \ge 22 \text{ mm}$		

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

Managaran	Name of Freedom and	Town (Marchael	Osais I Nissahan	Calibra	ation
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1099	Nov. 21, 2016	Nov. 20, 2017
SPEAG	835MHz System Validation Kit	D835V2	4d162	Nov. 22, 2016	Nov. 21, 2017
SPEAG	1750MHz System Validation Kit	D1750V2	1137	Jun. 05, 2017	Jun. 04, 2018
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	Nov. 24, 2016	Nov. 23, 2017
SPEAG	2450MHz System Validation Kit	D2450V2	924	Mar. 21, 2017	Mar. 20, 2018
SPEAG	2600MHz System Validation Kit	D2600V2	1070	Nov. 24, 2016	Nov. 23, 2017
SPEAG	Data Acquisition Electronics	DAE4	1338	Nov. 22, 2016	Nov. 21, 2017
SPEAG	Dosimetric E-Field Probe	EX3DV4	3911	Sep. 29, 2016	Sep. 28, 2017
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1795	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 19, 2017	Jul. 18, 2018
Agilent	Network Analyzer	E5071C	MY46523671	Oct. 11, 2016	Oct. 10, 2017
SPEAG	Dielectric Assessment KIT	DAK-3.5	1071	Nov. 23, 2016	Nov. 22, 2017
Agilent	Signal Generator	N5181A	MY50145381	Jan. 03, 2017	Jan. 02, 2018
Anritsu	Power Senor	MA2411B	1306099	Jul. 19, 2017	Jul. 18, 2018
Anritsu	Power Meter	ML2495A	1349001	Jul. 19, 2017	Jul. 18, 2018
Anritsu	Power Sensor	MA2411B	1207253	Jan. 03, 2017	Jan. 02, 2018
Anritsu	Power Meter	ML2495A	1218010	Jan. 03, 2017	Jan. 02, 2018
R&S	Spectrum Analyzer	FSP7	100818	Jul. 19, 2017	Jul. 18, 2018
Anymeter	Thermo-Hydrometer	JR593	2015030904	Apr. 22, 2017	Apr. 21, 2018
LKM Electronic	Hygrometer	DTM3000	3241	Jul. 21, 2017	Jul. 20, 2018
ARRA	Power Divider	A3200-2	NA	Not	te
PASTERNACK	Dual Directional Coupler	PE2214-10	N/A	Not	te
Agilent	Dual Directional Coupler	778D	50422	Not	te
mini-circuits	Amplifier	ZHL-42W+	QA1341002	Not	te
mini-circuits	Amplifier	ZVE-3W-83+	599201528	Not	te
MCL	Attenuation1	BW-S10W5	N/A	Not	te
Weinschel	Attenuation2	3M-20	N/A	Not	te
Zhongjilianhe	Attenuation3	MVE2214-03	N/A	No	te

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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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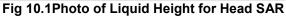
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10. System Verification

10.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.







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Fig 10.2 Photo of Liquid Height for Body SAR

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10.2 Tissue Verification

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

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Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity				
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	(σ)	(er)				
For Head												
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9				
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				
2600	54.8	0	0	0.1	0	45.1	1.96	39.0				
				For Body								
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5				
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				
2600	68.1	0	0	0.1	0	31.8	2.16	52.5				

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.9	0.880	40.752	0.89	41.90	-1.12	-2.74	±5	2017/9/10
835	Head	22.8	0.902	40.749	0.90	41.50	0.22	-1.81	±5	2017/9/10
1750	Head	22.7	1.392	39.950	1.37	40.10	1.61	-0.37	±5	2017/9/6
1900	Head	22.6	1.449	40.009	1.40	40.00	3.50	0.02	±5	2017/9/6
2450	Head	22.5	1.856	37.685	1.80	39.20	3.11	-3.86	±5	2017/9/9
2600	Head	22.5	2.050	38.344	1.96	39.00	4.59	-1.68	±5	2017/9/9
750	Body	22.8	0.963	54.242	0.96	55.50	0.31	-2.27	±5	2017/9/8
835	Body	22.7	1.011	56.243	0.97	55.20	4.23	1.89	±5	2017/9/8
1750	Body	22.6	1.527	52.039	1.49	53.40	2.48	-2.55	±5	2017/9/7
1900	Body	22.5	1.535	54.579	1.52	53.30	0.99	2.40	±5	2017/9/7
2450	Body	22.4	1.913	50.974	1.95	52.70	-1.90	-3.28	±5	2017/9/9
2600	Body	22.9	2.165	53.823	2.16	52.50	0.23	2.52	±5	2017/9/9

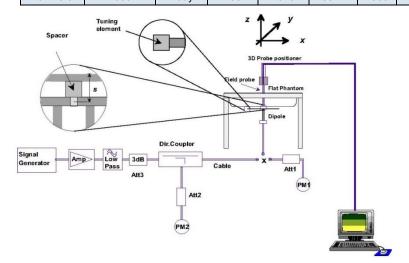
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10.3 System Performance Check Results

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 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2017/9/10	750	Head	250	1099	3911	1338	2.00	8.28	8.00	-3.38
2017/9/10	835	Head	250	4d162	3911	1338	2.43	9.31	9.72	4.40
2017/9/6	1750	Head	250	1137	3911	1338	9.54	36.60	38.16	4.26
2017/9/6	1900	Head	250	5d182	3911	1338	9.92	40.00	39.68	-0.80
2017/9/9	2450	Head	250	924	3911	1338	13.40	52.40	53.60	2.29
2017/9/9	2600	Head	250	1070	3911	1338	14.50	56.80	58.00	2.11
2017/9/8	750	Body	250	1099	3911	1338	2.34	8.71	9.36	7.46
2017/9/8	835	Body	250	4d162	3911	1338	2.43	9.64	9.72	0.83
2017/9/7	1750	Body	250	1137	3911	1338	9.39	37.00	37.56	1.51
2017/9/7	1900	Body	250	5d182	3911	1338	9.85	40.80	39.40	-3.43
2017/9/9	2450	Body	250	924	3911	1338	13.10	50.50	52.40	3.76
2017/9/9	2600	Body	250	1070	3911	1338	14.00	55.40	56.00	1.08





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Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

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11. RF Exposure Positions

11.1 Ear and handset reference point

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



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

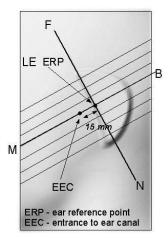
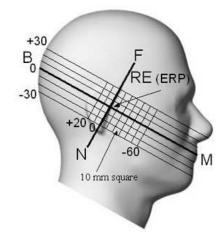


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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

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11.2 Definition of the cheek position

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

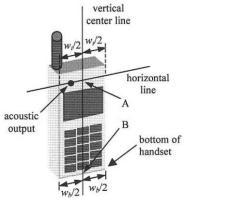
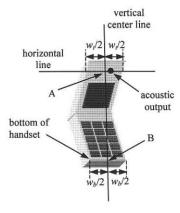


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case



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

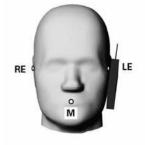






Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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11.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.

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- 2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- 3. Rotate the handset around the horizontal line by 15°.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

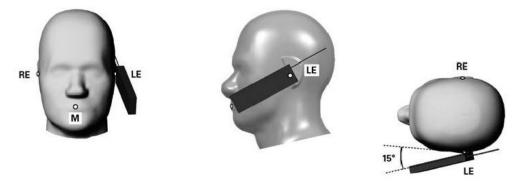


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn 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.

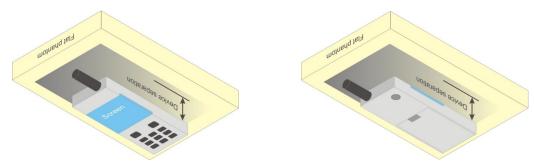


Fig 9.4 Body Worn Position

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 KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W \ge 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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

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12. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

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

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- 2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / 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 GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
- Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

GSM850	Burst Av	verage Powe	er (dBm)	Tune-up	Frame-A	verage Pow	er (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 1 Tx slot	32.35	32.45	<mark>32.48</mark>	32.50	23.35	23.45	23.48	23.50
GPRS 1 Tx slot	32.34	32.43	32.46	32.50	23.34	23.43	23.46	23.50
GPRS 2 Tx slots	31.70	31.80	31.84	32.00	25.70	25.80	25.84	26.00
GPRS 3 Tx slots	29.93	29.96	30.01	30.50	25.67	25.70	25.75	26.24
GPRS 4 Tx slots	28.76	28.90	28.93	29.50	25.76	25.90	25.93	<mark>26.50</mark>
EDGE 1 Tx slot	25.08	25.24	25.40	25.50	16.08	16.24	16.40	16.50
EDGE 2 Tx slots	23.99	24.27	24.36	24.50	17.99	18.27	18.36	18.50
EDGE 3 Tx slots	22.05	22.25	22.32	22.50	17.79	17.99	18.06	18.24
EDGE 4 Tx slots	20.86	21.17	21.28	21.50	17.86	18.17	18.28	18.50

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

The calculated method are shown as below:

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

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

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

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

GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	verage Pov	ver (dBm)	Tune-up
Tx Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	<mark>29.22</mark>	29.12	29.15	29.50	20.22	20.12	20.15	20.50
GPRS 1 Tx slot	29.20	29.11	29.13	29.50	20.20	20.11	20.13	20.50
GPRS 2 Tx slots	28.56	28.47	28.51	29.00	22.56	22.47	22.51	23.00
GPRS 3 Tx slots	26.90	26.80	26.88	27.50	22.64	22.54	22.62	23.24
GPRS 4 Tx slots	25.82	25.77	25.81	26.50	22.82	22.77	22.81	23.50
EDGE 1 Tx slot	24.29	24.17	24.27	24.50	15.29	15.17	15.27	15.50
EDGE 2 Tx slots	23.24	23.11	23.22	23.50	17.24	17.11	17.22	17.50
EDGE 3 Tx slots	21.20	21.04	21.19	21.50	16.94	16.78	16.93	17.24
EDGE 4 Tx slots	20.25	20.08	20.02	20.50	17.25	17.08	17.02	17.50

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

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

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

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

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- 3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
- 4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting:
 - Set Gain Factors (β_c and β_d) and parameters were set according to each
 - Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK) ٧.
 - 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
 - Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

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

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

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

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HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - 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
- Set UE Target Power ٧.
- 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
- 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 .
- CM = 1 for β_c/β_d =12/15, $\beta_h s/\beta_c$ =24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH Note 2: and E-DPCCH the MPR is based on the relative CM difference.
- For subtest 1 the β_C/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by Note 3: setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
- For subtest 5 the β_d/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by Note 4: setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15.
- Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
- Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

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DC-HSDPA 3GPP release 8 Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting: C.
 - Set RMC 12.2Kbps + HSDPA mode.
 - ii. Set Cell Power = -25 dBm
 - Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK) iii.
 - Select HSDPA Uplink Parameters iv
 - Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121

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- a). Subtest 1: $\beta_c/\beta_d=2/15$ b). Subtest 2: $\beta_c/\beta_d=12/15$
- c). Subtest 3: $\beta_c/\beta_d=15/8$
- d). Subtest 4: $\beta_c/\beta_d=15/4$
- Set Delta ACK, Delta NACK and Delta CQI = 8 vi.
- vii Set Ack-Nack Repetition Factor to 3
- Set CQI Feedback Cycle (k) to 4 ms
- Set CQI Repetition Factor to 2 ix.
- Power Ctrl Mode = All Up bits X
- The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

	Parameter	Unit	Value					
Nominal A	Avg. Inf. Bit Rate	kbps	60					
Inter-TTI	Distance	TTľs	1					
Number o	of HARQ Processes	Proces	6					
		ses	· ·					
Informatio	on Bit Payload ($N_{\it INF}$)	Bits	120					
Number 0	Code Blocks	Blocks	1					
Binary Ch	nannel Bits Per TTI	Bits	960					
Total Ava	ilable SML's in UE	SML's	19200					
Number o	of SML's per HARQ Proc.	SML's	3200					
Coding R	ate		0.15					
Number o	of Physical Channel Codes	Codes	1					
Modulatio	n		QPSK					
Note 1:	The RMC is intended to be used for	or DC-HSD	PA					
	mode and both cells shall transmit	with identi	cal					
	parameters as listed in the table.							
Note 2:	Maximum number of transmission							
	retransmission is not allowed. The redundancy and							
	constellation version 0 shall be use	ed.						

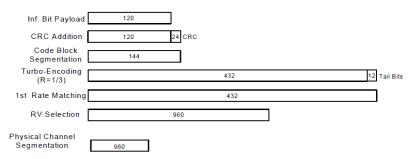


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2E:HSPA+:UL with 16QAM
 - 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, C11.1.4, quoted from the TS 34.121-1 s5.2E

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- Set Channel Parms
- iv. Set Cell Power = -86 dBm
- Set Channel Type = HSPA ٧.
- vi. Set UE Target Power =21 dBm
- vii. Power Ctrl Mode= All Up Bits
- viii. Set Manual Uplink DPCH Bc/Bd = Manual
- ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
- Set HSPA Conn DL Channel Levels
- xi. Set HS-SCCH Configs
- xii. Set RB Test Mode Setup
- xiii. Set Common HSUPA Parameters
- xiv. Set Serving Grant
- xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-	βc	βd	β _{HS}	βec	β_{ed}	β_{ed}	CM	MPR	AG	E-TFCI	E-TFCI
test	(Note3)		(Note1)		(2xSF2)	(2xSF4)	(dB)	(dB)		(Note 5)	(boost)
					(Note 4)	(Note 4)	(Note 2)	(Note 2)	(Note 4)		
1	1	0	30/15	30/15	β _{ed} 1: 30/15 β _{ed} 2: 30/15	β _{ed} 3: 24/15 β _{ed} 4: 24/15	3.5	2.5	14	105	105
						0					

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.

Note 4: βed can not be set directly; it is set by Absolute Grant Value.

All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-Note 5: DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

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General Note:

Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

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Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / HSPA+ / DC-HSDPA 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 / HSDPA / HSPA+ / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / HSPA+ / DC-HSDPA.

Band		WCDMA Band II				WCDMA Band IV				WCDMA Band V			
Tx Channel		9262	9400	9538	Tune-up Limit	1312	1413	1513	Tune-up Limit	4132	4182	4233	Tune-up Limit
R	x Channel	9662	9800	9938	(dBm)	1537	1638	1738	(dBm)	4357	4407	4458	(dBm)
Fred	quency (MHz)	1852.4	1880	1907.6	, , ,	1712.4	1732.6	1752.6	, , ,	826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.64	22.45	22.44	23.00	22.65	22.60	22.63	23.00	22.53	22.61	22.72	23.00
3GPP Rel 99	RMC 12.2Kbps	<mark>22.66</mark>	22.47	22.49	23.00	<mark>22.68</mark>	22.64	22.66	23.00	22.55	22.63	<mark>22.74</mark>	23.00
3GPP Rel 6	HSDPA Subtest-1	21.77	21.43	21.53	22.00	21.71	21.75	21.79	22.00	21.52	21.58	21.77	22.00
3GPP Rel 6	HSDPA Subtest-2	21.78	21.43	21.50	22.00	21.70	21.71	21.77	22.00	21.53	21.60	21.73	22.00
3GPP Rel 6	HSDPA Subtest-3	21.29	20.99	21.11	21.50	21.25	21.25	21.34	21.50	21.08	21.17	21.29	21.50
3GPP Rel 6	HSDPA Subtest-4	21.25	20.99	21.05	21.50	21.19	21.25	21.30	21.50	21.09	21.11	21.25	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.43	21.40	21.45	22.00	21.38	21.44	21.45	22.00	21.38	21.40	21.50	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.45	21.41	21.44	22.00	21.39	21.42	21.44	22.00	21.40	21.45	21.49	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.01	20.89	20.98	21.50	20.94	20.95	20.96	21.50	20.91	20.95	21.03	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.02	20.90	20.99	21.50	20.91	20.93	20.89	21.50	20.89	20.94	21.01	21.50
3GPP Rel 6	HSUPA Subtest-1	19.77	19.48	19.56	20.00	19.57	19.57	19.61	20.00	19.52	19.67	19.72	20.00
3GPP Rel 6	HSUPA Subtest-2	19.73	19.45	19.46	20.00	19.64	19.63	19.66	20.00	19.56	19.66	19.29	20.00
3GPP Rel 6	HSUPA Subtest-3	20.68	20.43	20.46	21.00	20.62	20.64	20.63	21.00	20.57	20.63	20.75	21.00
3GPP Rel 6	HSUPA Subtest-4	19.24	18.99	19.01	19.50	19.13	19.11	19.11	19.50	19.05	19.11	19.22	19.50
3GPP Rel 6	HSUPA Subtest-5	21.60	21.40	21.40	22.00	21.60	21.60	21.60	22.00	21.50	21.60	21.70	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.92	18.70	18.84	19.50	19.04	19.08	19.07	19.50	18.99	19.08	19.15	19.50

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<LTE Conducted Power>

General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.

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- 2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
- 3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- 6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
- 7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 8. For LTE B4 / B12 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- 9. LTE band 17 SAR test was covered by Bands 12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

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<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR
	Chani		nel		18900	19100	(dBm)	(dB)
	Frequency	(MHz)		1860	1880	1900		
20	QPSK	1	0	23.12	22.84	22.75		
20	QPSK	1	49	22.94	22.74	22.62	23.5	0
20	QPSK	1	99	22.85	22.74	22.65		
20	QPSK	50	0	22.07	22.04	21.76		
20	QPSK	50	24	21.96	21.93	21.69	22.5	1
20	QPSK	50	50	21.92	21.81	21.75	22.5	'
20	QPSK	100	0	21.96	21.86	21.70		
20	16QAM	1	0	22.26	22.18	21.94		
20	16QAM	1	49	22.11	22.10	21.75	22.5	1
20	16QAM	1	99	21.94	21.91	21.77		
20	16QAM	50	0	21.10	20.96	20.71	- 21.5	
20	16QAM	50	24	21.00	20.88	20.67		0
20	16QAM	50	50	20.94	20.84	20.69		2
20	16QAM	100	0	20.97	20.86	20.67		
	Chani	nel		18675	18900	19125	Tune-up	MPR
	Frequency	(MHz)		1857.5	1880	1902.5	limit (dBm)	(dB)
15	QPSK	1	0	23.03	22.90	22.71		
15	QPSK	1	37	22.91	22.83	22.63	23.5	0
15	QPSK	1	74	22.76	22.70	22.62		
15	QPSK	36	0	22.03	21.95	21.70		
15	QPSK	36	20	22.00	21.92	21.69	22.5	4
15	QPSK	36	39	21.93	21.80	21.68	22.5	1
15	QPSK	75	0	21.96	21.86	21.72		
15	16QAM	1	0	22.36	22.05	22.13		
15	16QAM	1	37	22.45	22.01	21.94	22.5	1
15	16QAM	1	74	22.32	21.96	22.06		
15	16QAM	36	0	21.08	20.88	20.70		
15	16QAM	36	20	21.05	20.88	20.69	21.5	2
15	16QAM	36	39	20.99	20.82	20.68	21.5	2
15	16QAM	75	0	20.99	20.90	20.70		

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PORTON LAB. FO	CC SAR Te	st Report	.			R	Report No. :	FA790406
	Chan	nel		18650	18900	19150	Tune-up	MPR
	Frequency	/ (MHz)		1855	1880	1905	limit (dBm)	(dB)
10	QPSK	1	0	22.90	22.80	22.52		
10	QPSK	1	25	22.85	22.74	22.52	23.5	0
10	QPSK	1	49	22.77	22.61	22.51		
10	QPSK	25	0	21.95	21.90	21.63		
10	QPSK	25	12	21.90	21.89	21.65	22.5	1
10	QPSK	25	25	21.89	21.83	21.65		'
10	QPSK	50	0	21.95	21.88	21.64		
10	16QAM	1	0	22.10	22.30	21.84		
10	16QAM	1	25	22.05	22.26	21.76	22.5	1
10	16QAM	1	49	21.97	22.23	21.79		
10	16QAM	25	0	20.98	20.93	20.64		
10	16QAM	25	12	20.93	20.88	20.59	21.5	2
10	16QAM	25	25	20.92	20.84	20.60	21.5	2
10	16QAM	50	0	20.93	20.85	20.65		
	Chan	nel		18625	18900	19175	Tune-up	MPR
	Frequency	/ (MHz)		1852.5	1880	1907.5	limit (dBm)	(dB)
5	QPSK	1	0	23.01	22.75	22.67		
5	QPSK	1	12	22.85	22.73	22.66	23.5	0
5	QPSK	1	24	22.83	22.64	22.58		
5	QPSK	12	0	22.03	21.86	21.63		
5	QPSK	12	7	22.00	21.82	21.63	20.5	4
5	QPSK	12	13	21.98	21.80	21.65	22.5	1
5	QPSK	25	0	21.96	21.88	21.63		
5	16QAM	1	0	22.19	22.18	21.69		
5	16QAM	1	12	22.12	22.10	21.72	22.5	1
5	16QAM	1	24	22.01	21.98	21.71		
5	16QAM	12	0	21.02	20.88	20.67		
5	16QAM	12	7	21.01	20.83	20.65	24.5	2
5	16QAM	12	13	20.99	20.80	20.72	21.5	2
5	16QAM	25	0	20.97	20.85	20.61		

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	Chanr	nol		18615	18900	19185	Tune-up	
							limit	MPR (dB)
	Frequency	(MHz)		1851.5	1880	1908.5	(dBm)	(ub)
3	QPSK	1	0	22.99	22.73	22.49	_	
3	QPSK	1	8	23.00	22.75	22.53	23.5	0
3	QPSK	1	14	23.09	22.70	22.48		
3	QPSK	8	0	22.00	21.86	21.63		
3	QPSK	8	4	21.94	21.83	21.68	22.5	1
3	QPSK	8	7	21.96	21.83	21.62	22.5	
3	QPSK	15	0	21.91	21.82	21.68		
3	16QAM	1	0	21.99	21.71	21.60		
3	16QAM	1	8	22.04	21.78	21.67	22.5	1
3	16QAM	1	14	21.97	21.69	21.66		
3	16QAM	8	0	21.10	20.80	20.73		
3	16QAM	8	4	21.08	20.81	20.68	24.5	2
3	16QAM	8	7	21.11	20.81	20.70	21.5	2
3	16QAM	15	0	21.01	20.82	20.73		
	Chani	nel		18607	18900	19193	Tune-up	MPR
	Frequency	(MHz)		1850.7	1880	1909.3	limit (dBm)	(dB)
1.4	QPSK	1	0	22.94	22.74	22.56		
1.4	QPSK	1	3	23.01	22.78	22.60		
1.4	QPSK	1	5	22.88	22.71	22.55	00.5	•
1.4	QPSK	3	0	23.09	22.83	22.60	23.5	0
1.4	QPSK	3	1	22.97	22.74	22.61		
1.4	QPSK	3	3	22.95	22.81	22.65		
1.4	QPSK	6	0	21.93	21.79	21.61	22.5	1
1.4	16QAM	1	0	22.15	22.17	21.66		
1.4	16QAM	1	3	22.15	22.25	21.77		
1.4	16QAM	1	5	22.13	22.18	21.66		
1.4	16QAM	3	0	22.03	21.83	21.69	22.5	1
1.4	16QAM	3	1	21.98	21.82	21.63		
1.4	16QAM	3	3	22.00	21.80	21.67		
1.4	16QAM	6	0	21.05	20.88	20.64	21.5	2

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<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR	
Channel		nnel	nel		20175	20300	(dBm)	(dB)	
	Frequen	cy (MHz)		1720	1732.5	1745			
20	QPSK	1	0	22.99	22.89	23.22			
20	QPSK	1	49	22.90	22.86	22.98	23.5	0	
20	QPSK	1	99	22.88	22.86	23.00			
20	QPSK	50	0	22.16	22.03	22.17			
20	QPSK	50	24	21.84	21.99	22.01	20.5	4	
20	QPSK	50	50	22.12	21.96	22.03	22.5	1	
20	QPSK	100	0	21.85	21.98	22.01			
20	16QAM	1	0	22.05	22.19	22.50			
20	16QAM	1	49	21.94	22.15	22.41	22.5	1	
20	16QAM	1	99	21.96	22.14	22.44			
20	16QAM	50	0	20.91	21.04	21.07	21.5		
20	16QAM	50	24	20.87	20.98	21.03		0	
20	16QAM	50	50	20.87	21.01	21.03		2	
20	16QAM	100	0	20.86	21.02	21.02			
	Channel				20175	20325	Tune-up	MPR	
	Frequen	cy (MHz)		1717.5	1732.5	1747.5	limit (dBm)	(dB)	
15	QPSK	1	0	22.94	23.00	23.04			
15	QPSK	1	37	22.85	22.98	22.97	23.5	0	
15	QPSK	1	74	22.79	22.97	22.97			
15	QPSK	36	0	21.90	22.05	22.08			
15	QPSK	36	20	21.85	22.02	22.06	00.5	4	
15	QPSK	36	39	21.84	22.00	22.06	22.5	1	
15	QPSK	75	0	21.82	22.03	22.09			
15	16QAM	1	0	21.99	22.33	22.13			
15	16QAM	1	37	21.96	22.32	22.12	22.5	1	
15	16QAM	1	74	21.94	22.27	22.04			
15	16QAM	36	0	20.87	21.05	21.09			
15	16QAM	36	20	20.83	21.03	21.07	04.5	0	
15	16QAM	36	39	20.82	21.03	21.06	21.5	2	
15	16QAM	75	0	20.84	20.99	21.02			

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	Cha	nnel		20000	20175	20350	Tune-up limit	MPR
	Frequen	cy (MHz)		1715	1732.5	1750	(dBm)	(dB)
10	QPSK	1	0	22.87	23.01	22.91		
10	QPSK	1	25	22.79	22.98	22.88	23.5	0
10	QPSK	1	49	22.71	22.96	22.79		
10	QPSK	25	0	21.06	22.03	21.99		
10	QPSK	25	12	21.06	22.03	22.00	22.5	1
10	QPSK	25	25	21.08	22.03	22.00	22.5	'
10	QPSK	50	0	21.83	22.02	22.01		
10	16QAM	1	0	22.22	22.48	22.18		
10	16QAM	1	25	22.31	22.40	22.16	22.5	1
10	16QAM	1	49	22.26	22.06	22.13		
10	16QAM	25	0	20.87	21.01	20.96		
10	16QAM	25	12	20.88	21.00	20.93	21.5	2
10	16QAM	25	25	20.84	20.99	20.93	21.5	2
10	16QAM	50	0	20.88	20.98	21.01		
	Cha	nnel		19975	20175	20375	Tune-up	MPR
	Frequen	cy (MHz)		1712.5	1732.5	1752.5	limit (dBm)	(dB)
5	QPSK	1	0	22.82	22.88	23.02		
5	QPSK	1	12	22.84	22.87	23.05	23.5	0
5	QPSK	1	24	22.74	22.83	22.96		
5	QPSK	12	0	21.89	21.99	22.04		
5	QPSK	12	7	21.88	21.98	22.06	00.5	4
5	QPSK	12	13	21.83	21.97	22.01	22.5	1
5	QPSK	25	0	21.63	21.98	21.99		
5	16QAM	1	0	22.11	22.33	22.15		
5	16QAM	1	12	21.75	22.31	22.11	22.5	1
5	16QAM	1	24	21.81	22.26	22.07		
5	16QAM	12	0	21.01	20.99	21.05		
5	16QAM	12	7	20.83	20.96	21.02	24.5	2
5	16QAM	12	13	20.81	20.97	21.03	21.5	2
5	16QAM	25	0	20.69	20.97	21.03		

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	Chan			19965	20175	20385	Tune-up limit	MPR
	Frequenc	y (MHz)		1711.5	1732.5	1753.5	(dBm)	(dB)
3	QPSK	1	0	22.72	22.58	22.87		
3	QPSK	1	8	22.80	22.02	22.88	23.5	0
3	QPSK	1	14	22.70	22.82	22.79		
3	QPSK	8	0	21.85	21.99	22.01		
3	QPSK	8	4	21.82	21.99	22.03	22.5	1
3	QPSK	8	7	21.82	22.29	22.01		·
3	QPSK	15	0	21.81	21.96	22.05		
3	16QAM	1	0	22.35	21.75	22.01		
3	16QAM	1	8	21.96	21.87	22.06	22.5	1
3	16QAM	1	14	21.40	21.83	21.97		
3	16QAM	8	0	20.91	20.98	21.05		
3	16QAM	8	4	20.92	20.98	21.05	21.5	2
3	16QAM	8	7	20.87	20.96	21.05	21.5	۷
3	16QAM	15	0	20.84	20.87	21.07		
	Chan	nel		19957	20175	20393	Tune-up	MPR
	Frequenc	y (MHz)		1710.7	1732.5	1754.3	limit (dBm)	(dB)
1.4	QPSK	1	0	22.70	22.91	22.66		
1.4	QPSK	1	3	22.75	23.20	22.91		
1.4	QPSK	1	5	22.78	22.99	22.86	22.5	0
1.4	QPSK	3	0	22.85	22.80	22.93	23.5	U
1.4	QPSK	3	1	22.83	23.21	22.91		
1.4	QPSK	3	3	23.11	22.32	22.97		
1.4	QPSK	6	0	21.81	21.26	21.97	22.5	1
1.4	16QAM	1	0	21.96	22.32	21.81		
1.4	16QAM	1	3	22.06	22.40	21.85		
1.4	16QAM	1	5	22.07	22.34	21.83	00.5	4
1.4	16QAM	3	0	21.77	21.98	22.00	22.5	1
1.4	16QAM	3	1	21.75	21.95	21.81		
1.4	16QAM	3	3	21.75	21.97	21.85		
1.4	16QAM	6	0	20.91	20.05	21.03	21.5	2

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<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR
	Cha	nnel		20850	21100	21350	(dBm)	(dB)
	Frequenc	cy (MHz)		2510	2535	2560		
20	QPSK	1	0	23.28	23.19	23.32		
20	QPSK	1	49	23.32	23.15	23.39	24	0
20	QPSK	1	99	23.35	23.27	23.69		
20	QPSK	50	0	22.29	22.34	22.43		
20	QPSK	50	24	22.26	22.34	22.46	23	4
20	QPSK	50	50	22.31	22.39	22.49	23	1
20	QPSK	100	0	22.27	22.34	22.39		
20	16QAM	1	0	22.60	22.45	22.73		
20	16QAM	1	49	22.26	22.50	22.74	23	1
20	16QAM	1	99	22.35	22.58	22.86		
20	16QAM	50	0	21.20	21.32	21.34		
20	16QAM	50	24	21.18	21.31	21.40	20	0
20	16QAM	50	50	21.20	21.36	21.46	22	2
20	16QAM	100	0	21.21	21.34	21.37		
	Cha	nnel		20825	21100	21375	Tune-up	MPR
	Frequenc	cy (MHz)		2507.5	2535	2562.5	limit (dBm)	(dB)
15	QPSK	1	0	23.61	23.25	23.35		
15	QPSK	1	37	23.13	23.22	23.45	24	0
15	QPSK	1	74	23.12	23.29	23.42		
15	QPSK	36	0	22.24	22.35	22.41		
15	QPSK	36	20	22.25	22.37	22.44	23	1
15	QPSK	36	39	22.22	22.39	22.49	23	l
15	QPSK	75	0	22.26	22.39	22.41		
15	16QAM	1	0	22.14	22.76	22.49		
15	16QAM	1	37	22.14	22.82	22.54	23	1
15	16QAM	1	74	22.14	22.79	22.59		
15	16QAM	36	0	21.21	21.35	21.35		
15	16QAM	36	20	21.22	21.36	21.38	22	2
15	16QAM	36	39	21.20	21.39	21.49	22	2
15	16QAM	75	0	21.23	21.38	21.41		

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	Cha	nnel		20800	21100	21400	Tune-up limit	MPR
	Frequenc	cy (MHz)		2505	2535	2565	(dBm)	(dB)
10	QPSK	1	0	23.09	23.22	23.38		
10	QPSK	1	25	23.03	23.22	23.42	24	0
10	QPSK	1	49	23.07	23.23	23.49		
10	QPSK	25	0	22.16	22.33	22.48		
10	QPSK	25	12	22.14	22.36	22.44	23	1
10	QPSK	25	25	22.17	22.35	22.46	23	'
10	QPSK	50	0	22.17	22.34	22.45		
10	16QAM	1	0	22.16	22.64	22.49		
10	16QAM	1	25	22.16	22.64	22.51	23	1
10	16QAM	1	49	22.16	22.67	22.54		
10	16QAM	25	0	21.02	21.31	21.43		
10	16QAM	25	12	21.03	21.34	21.45	22	2
10	16QAM	25	25	21.05	21.37	21.43	22	2
10	16QAM	50	0	21.09	21.37	21.45		
	Cha	nnel		20775	21100	21425	Tune-up	MPR
	Frequenc	cy (MHz)		2502.5	2535	2567.5	limit (dBm)	(dB)
5	QPSK	1	0	23.16	23.25	23.26		
5	QPSK	1	12	23.16	23.26	23.35	24	0
5	QPSK	1	24	23.10	23.22	23.28		
5	QPSK	12	0	22.18	22.38	22.48		
5	QPSK	12	7	22.18	22.35	22.50	-	_
5	QPSK	12	13	22.17	22.37	22.48	23	1
5	QPSK	25	0	22.10	22.34	22.43		
5	16QAM	1	0	21.90	22.22	22.72		
5	16QAM	1	12	21.91	22.27	22.73	23	1
5	16QAM	1	24	21.89	22.20	22.68		
5	16QAM	12	0	21.15	21.30	21.47		
5	16QAM	12	7	21.11	21.31	21.47	20	0
5	16QAM	12	13	21.15	21.30	21.49	- 22	2
5	16QAM	25	0	21.04	21.28	21.42		

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<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR
	Cha	nnel		23060	23095	23130	(dBm)	(dB)
	Frequen	cy (MHz)		704	707.5	711		
10	QPSK	1	0	22.45	22.54	22.51		
10	QPSK	1	25	22.51	22.59	22.49	23	0
10	QPSK	1	49	22.65	22.78	22.58		
10	QPSK	25	0	21.42	21.48	21.54		
10	QPSK	25	12	21.49	21.54	21.57	00	4
10	QPSK	25	25	21.53	21.61	21.58	22	1
10	QPSK	50	0	21.46	21.59	21.54		
10	16QAM	1	0	21.96	21.68	21.43		
10	16QAM	1	25	21.99	21.72	21.50	22.5	0.5
10	16QAM	1	49	21.88	21.82	21.60		
10	16QAM	25	0	20.39	20.58	20.52		
10	16QAM	25	12	20.46	20.64	20.56	24.5	4.5
10	16QAM	25	25	20.49	20.67	20.61	21.5	1.5
10	16QAM	50	0	20.51	20.56	20.60		
	Cha	nnel		23035	23095	23155	Tune-up	MPR
	Frequen	cy (MHz)		701.5	707.5	713.5	limit (dBm)	(dB)
5	QPSK	1	0	22.44	22.42	22.54		
5	QPSK	1	12	22.49	22.46	22.57	23	0
5	QPSK	1	24	22.52	22.50	22.59		
5	QPSK	12	0	21.47	21.34	21.59		
5	QPSK	12	7	21.50	21.60	21.59	20	4
5	QPSK	12	13	21.53	21.64	21.62	22	1
5	QPSK	25	0	21.43	21.56	21.54		
5	16QAM	1	0	22.04	22.01	21.97		
5	16QAM	1	12	21.69	22.10	22.02	22.5	0.5
5	16QAM	1	24	21.76	22.15	22.10		
5	16QAM	12	0	20.49	20.54	20.60		
5	16QAM	12	7	20.50	20.60	20.60	24.5	1.5
5	16QAM	12	13	20.55	20.61	20.64	21.5	1.5
5	16QAM	25	0	20.50	20.52	20.50		

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	Cha	nnel		23025	23095	23165	Tune-up limit	MPR
	Frequenc	cy (MHz)		700.5	707.5	714.5	(dBm)	(dB)
3	QPSK	1	0	22.31	22.37	22.30		
3	QPSK	1	8	22.37	22.71	22.41	23	0
3	QPSK	1	14	22.33	21.95	22.50		
3	QPSK	8	0	21.25	21.57	21.57		
3	QPSK	8	4	21.45	21.56	21.56	22	1
3	QPSK	8	7	21.45	21.55	21.58	22	'
3	QPSK	15	0	21.44	21.51	21.50		
3	16QAM	1	0	21.97	21.70	21.87		
3	16QAM	1	8	22.04	21.84	21.94	22.5	0.5
3	16QAM	1	14	21.99	21.81	21.99		
3	16QAM	8	0	20.46	20.51	20.59		
3	16QAM	8	4	20.45	20.53	20.64	21.5	1.5
3	16QAM	8	7	20.51	20.52	20.65	21.5	1.5
3	16QAM	15	0	20.41	20.56	20.50		
	Cha	nnel		23017	23095	23173	Tune-up	MPR
	Frequenc	cy (MHz)		699.7	707.5	715.3	limit (dBm)	(dB)
1.4	QPSK	1	0	22.72	22.45	22.71		
1.4	QPSK	1	3	22.22	22.45	22.51		
1.4	QPSK	1	5	22.69	22.39	22.45	00	0
1.4	QPSK	3	0	21.71	22.54	22.50	23	0
1.4	QPSK	3	1	22.37	22.50	22.43		
1.4	QPSK	3	3	22.43	22.54	22.53		
1.4	QPSK	6	0	20.78	21.44	21.48	22	1
1.4	16QAM	1	0	21.26	22.10	22.01		
1.4	16QAM	1	3	21.55	21.65	21.16		
1.4	16QAM	1	5	21.69	21.38	21.15	00.5	0.5
1.4	16QAM	3	0	21.42	21.67	21.10	22.5	0.5
1.4	16QAM	3	1	21.23	22.07	21.37		
1.4	16QAM	3	3	21.08	21.80	21.32		
1.4	16QAM	6	0	20.10	20.74	20.77	21.5	1.5

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<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR (dB)
	Cha	nnel		23780	23790	23800	(dBm)	(db)
	Frequenc	cy (MHz)		709	710	711		
10	QPSK	1	0	22.41	22.34	22.44		
10	QPSK	1	25	22.44	22.42	22.46	23	0
10	QPSK	1	49	22.46	22.49	22.52		
10	QPSK	25	0	21.39	21.41	21.37		
10	QPSK	25	12	21.42	21.47	21.46	22	1
10	QPSK	25	25	21.46	21.48	21.52		
10	QPSK	50	0	21.33	20.82	21.34		
10	16QAM	1	0	21.59	21.94	21.90		
10	16QAM	1	25	21.73	21.99	22.07	22.5	0.5
10	16QAM	1	49	21.76	22.05	22.08		
10	16QAM	25	0	20.98	20.02	20.42		
10	16QAM	25	12	20.54	20.99	20.76	21.5	1.5
10	16QAM	25	25	20.96	20.55	20.52	21.5	1.5
10	16QAM	50	0	20.45	21.18	20.50		
	Cha	nnel		23755	23790	23825	Tune-up	MPR
	Frequenc	cy (MHz)		706.5	710	713.5	limit (dBm)	(dB)
5	QPSK	1	0	22.43	22.40	22.36		
5	QPSK	1	12	22.40	22.44	22.36	23	0
5	QPSK	1	24	22.48	22.43	22.41		
5	QPSK	12	0	21.47	21.48	21.45		
5	QPSK	12	7	21.44	21.49	21.48	00	4
5	QPSK	12	13	21.50	21.50	21.47	22	1
5	QPSK	25	0	21.40	21.45	21.41		
5	16QAM	1	0	21.56	21.38	20.71		
5	16QAM	1	12	21.58	21.42	21.42	22.5	0.5
5	16QAM	1	24	21.57	21.42	21.53		
5	16QAM	12	0	20.51	20.55	20.44		
5	16QAM	12	7	20.71	20.73	20.41	04 -	4 -
5	16QAM	12	13	20.50	20.55	20.40	21.5	1.5
5	16QAM	25	0	20.40	20.43	20.35		

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<WLAN Conducted Power>

General Note:

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

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

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	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412	1Mbps	15.85	16.00	
	802.11b	CH 6	2437		<mark>16.60</mark>	17.00	100.00
		CH 11	2462		16.07	16.50	
	802.11g	CH 1	2412		11.80	12.50	
2.4GHz WLAN		CH 6	2437	6Mbps	12.85	13.50	96.46
		CH 11	2462		12.17	12.50	
		CH 1	2412		11.30	11.50	
	802.11n-HT20	CH 6	2437	MCS0	11.84	12.00	97.28
		CH 11	2462		11.27	11.50	
		CH 3	2422	MCS0	10.72	11.00	
	802.11n-HT40	CH 6	2437		11.15	11.50	94.71
		CH 9	2452		10.62	11.00	

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13. Bluetooth Exclusions Applied

Mode Band	Average power(dBm)					
Mode Band	Bluetooth v3.0+EDR	Bluetooth v4.0 LE				
2.4GHz Bluetooth	7.5	7.5				

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Note:

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

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

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

Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds		
7.5	10	2.48	0.9		

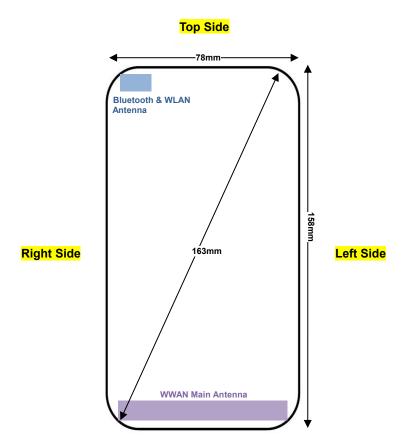
Note: Per KDB 447498 D01v06, a distance of 10 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.6 which is <= 3, SAR testing is not required.

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14. Antenna Location



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Back View

Bottom Side

Distance of the Antenna to the EUT surface/edge									
Antennas Back Front Top Side Bottom Side Right Side Left Side									
WWAN	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm			
Bluetooth & WLAN	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm			

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

General Note:

Referring to KDB 941225 D06 v02r01, 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 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- d. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - \cdot ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is
 ≥ 0.8W/kq.
- 4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
- 5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15cm or an overall diagonal dimension > 16cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, in this report all the hotspot mode results are < 1.2W/kg.</p>

GSM Note:

- 1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
- Other configurations of GSM / GPRS are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

- 1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 2. Per KDB 941225 D01v03r01, 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 / HSPA+ / DC-HSDPA 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 / HSPA+ / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / HSPA+ / DC-HSDPA.

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LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.

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- 2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- 4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
- 5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 6. For LTE B4 / B12 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- LTE band 17 SAR test was covered by Bands 12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

WLAN Note:

- 1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- 2. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
- For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions /
 configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all
 required channels are tested.
- 4. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

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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)
01	GSM850	GPRS (4 Tx slots)	Right Cheek	251	848.8	28.93	29.50	1.140	0.05	0.381	<mark>0.434</mark>
	GSM850	GPRS (4 Tx slots)	Right Tilted	251	848.8	28.93	29.50	1.140	0.09	0.203	0.231
	GSM850	GPRS (4 Tx slots)	Left Cheek	251	848.8	28.93	29.50	1.140	0.01	0.279	0.318
	GSM850	GPRS (4 Tx slots)	Left Tilted	251	848.8	28.93	29.50	1.140	0.17	0.214	0.244
02	GSM1900	GPRS (4 Tx slots)	Right Cheek	512	1850.2	25.82	26.50	1.169	0.07	0.145	<mark>0.170</mark>
	GSM1900	GPRS (4 Tx slots)	Right Tilted	512	1850.2	25.82	26.50	1.169	-0.02	0.047	0.055
	GSM1900	GPRS (4 Tx slots)	Left Cheek	512	1850.2	25.82	26.50	1.169	0.05	0.136	0.159
	GSM1900	GPRS (4 Tx slots)	Left Tilted	512	1850.2	25.82	26.50	1.169	0.08	0.092	0.108

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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)
03	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4233	846.6	22.74	23.00	1.062	0.06	0.171	<mark>0.182</mark>
	WCDMA Band V	RMC 12.2Kbps	Right Tilted	4233	846.6	22.74	23.00	1.062	0.09	0.081	0.086
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4233	846.6	22.74	23.00	1.062	80.0	0.130	0.138
	WCDMA Band V	RMC 12.2Kbps	Left Tilted	4233	846.6	22.74	23.00	1.062	0.05	0.088	0.093
	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	1312	1712.4	22.68	23.00	1.076	0.09	0.257	0.277
	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	1312	1712.4	22.68	23.00	1.076	0.03	0.142	0.153
04	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1312	1712.4	22.68	23.00	1.076	0.04	0.267	<mark>0.287</mark>
	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	1312	1712.4	22.68	23.00	1.076	0.09	0.093	0.100
05	WCDMA Band II	RMC 12.2Kbps	Right Cheek	9262	1852.4	22.66	23.00	1.081	0.03	0.149	<mark>0.161</mark>
	WCDMA Band II	RMC 12.2Kbps	Right Tilted	9262	1852.4	22.66	23.00	1.081	-0.06	0.049	0.053
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9262	1852.4	22.66	23.00	1.081	0.01	0.146	0.158
	WCDMA Band II	RMC 12.2Kbps	Left Tilted	9262	1852.4	22.66	23.00	1.081	0.07	0.096	0.104

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<LTE SAR>

Plot	Pand	BW	Modulation	RB	RB	Test	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
No.	Band	(MHz)	IVIOUUIALIOIT	Size	Offset	Position	CII.	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
06	LTE Band 12	10M	QPSK	1	49	Right Cheek	23095	707.5	22.78	23.00	1.052	0.07	0.031	0.033
	LTE Band 12	10M	QPSK	1	49	Right Tilted	23095	707.5	22.78	23.00	1.052	0.06	0.012	0.013
	LTE Band 12	10M	QPSK	1	49	Left Cheek	23095	707.5	22.78	23.00	1.052	0.06	0.026	0.027
	LTE Band 12	10M	QPSK	1	49	Left Tilted	23095	707.5	22.78	23.00	1.052	0.02	0.022	0.023
	LTE Band 12	10M	QPSK	25	25	Right Cheek	23095	707.5	21.61	22.00	1.094	0.02	0.023	0.025
	LTE Band 12	10M	QPSK	25	25	Right Tilted	23095	707.5	21.61	22.00	1.094	0.08	0.013	0.014
	LTE Band 12	10M	QPSK	25	25	Left Cheek	23095	707.5	21.61	22.00	1.094	0.03	0.019	0.021
	LTE Band 12	10M	QPSK	25	25	Left Tilted	23095	707.5	21.61	22.00	1.094	0.04	0.016	0.018
07	LTE Band 4	20M	QPSK	1	0	Right Cheek	20175	1732.5	22.89	23.50	1.151	0.06	0.299	<mark>0.344</mark>
	LTE Band 4	20M	QPSK	1	0	Right Tilted	20175	1732.5	22.89	23.50	1.151	-0.02	0.120	0.138
	LTE Band 4	20M	QPSK	1	0	Left Cheek	20175	1732.5	22.89	23.50	1.151	0.01	0.288	0.331
	LTE Band 4	20M	QPSK	1	0	Left Tilted	20175	1732.5	22.89	23.50	1.151	0.04	0.147	0.169
	LTE Band 4	20M	QPSK	50	0	Right Cheek	20175	1732.5	22.03	22.50	1.114	0.05	0.235	0.262
	LTE Band 4	20M	QPSK	50	0	Right Tilted	20175	1732.5	22.03	22.50	1.114	0.03	0.095	0.106
	LTE Band 4	20M	QPSK	50	0	Left Cheek	20175	1732.5	22.03	22.50	1.114	0.07	0.222	0.247
	LTE Band 4	20M	QPSK	50	0	Left Tilted	20175	1732.5	22.03	22.50	1.114	0.01	0.121	0.135
80	LTE Band 2	20M	QPSK	1	0	Right Cheek	18700	1860	23.12	23.50	1.091	0.04	0.183	0.200
	LTE Band 2	20M	QPSK	1	0	Right Tilted	18700	1860	23.12	23.50	1.091	-0.02	0.074	0.081
	LTE Band 2	20M	QPSK	1	0	Left Cheek	18700	1860	23.12	23.50	1.091	0.04	0.167	0.182
	LTE Band 2	20M	QPSK	1	0	Left Tilted	18700	1860	23.12	23.50	1.091	0.04	0.119	0.130
	LTE Band 2	20M	QPSK	50	0	Right Cheek	18700	1860	22.07	22.50	1.104	0.01	0.137	0.151
	LTE Band 2	20M	QPSK	50	0	Right Tilted	18700	1860	22.07	22.50	1.104	-0.04	0.054	0.060
	LTE Band 2	20M	QPSK	50	0	Left Cheek	18700	1860	22.07	22.50	1.104	0.02	0.122	0.135
	LTE Band 2	20M	QPSK	50	0	Left Tilted	18700	1860	22.07	22.50	1.104	0.01	0.088	0.097
	LTE Band 7	20M	QPSK	1	99	Right Cheek	21350	2560	23.69	24.00	1.074	0.04	0.035	0.038
	LTE Band 7	20M	QPSK	1	99	Right Tilted	21350	2560	23.69	24.00	1.074	0.03	0.037	0.040
09	LTE Band 7	20M	QPSK	1	99	Left Cheek	21350	2560	23.69	24.00	1.074	0.08	0.066	<mark>0.071</mark>
	LTE Band 7	20M	QPSK	1	99		21350	2560	23.69	24.00	1.074	0.03	0.047	0.050
	LTE Band 7	20M	QPSK	50	50	Right Cheek	21350	2560	22.49	23.00	1.125	0.13	0.028	0.031
	LTE Band 7	20M	QPSK	50	50	Right Tilted		2560	22.49	23.00	1.125	0.02	0.029	0.033
	LTE Band 7	20M	QPSK	50	50	Left Cheek	21350	2560	22.49	23.00	1.125	-0.06	0.054	0.061
	LTE Band 7	20M	QPSK	50	50	Left Tilted	21350	2560	22.49	23.00	1.125	0.07	0.040	0.045

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<WLAN SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)		Cycle		Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	6	2437	16.60	17.00	1.096	100	1.000	0.04	0.148	0.162
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	6	2437	16.60	17.00	1.096	100	1.000	0.06	0.177	0.194
10	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	6	2437	16.60	17.00	1.096	100	1.000	0.07	0.365	<mark>0.400</mark>
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	6	2437	16.60	17.00	1.096	100	1.000	0.03	0.344	0.377

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15.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	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 (4 Tx slots)	Front	10	251	848.8	28.93	29.50	1.140	0.04	0.511	0.583
11	GSM850	GPRS (4 Tx slots)	Back	10	251	848.8	28.93	29.50	1.140	0.03	0.596	<mark>0.680</mark>
	GSM850	GPRS (4 Tx slots)	Left Side	10	251	848.8	28.93	29.50	1.140	0.06	0.192	0.219
	GSM850	GPRS (4 Tx slots)	Right Side	10	251	848.8	28.93	29.50	1.140	0.01	0.566	0.645
	GSM850	GPRS (4 Tx slots)	Bottom Side	10	251	848.8	28.93	29.50	1.140	0.04	0.450	0.513
	GSM1900	GPRS (4 Tx slots)	Front	10	512	1850.2	25.82	26.50	1.169	0.15	0.515	0.602
	GSM1900	GPRS (4 Tx slots)	Back	10	512	1850.2	25.82	26.50	1.169	0.04	0.429	0.502
	GSM1900	GPRS (4 Tx slots)	Left Side	10	512	1850.2	25.82	26.50	1.169	0.03	0.168	0.196
	GSM1900	GPRS (4 Tx slots)	Right Side	10	512	1850.2	25.82	26.50	1.169	-0.01	0.131	0.153
	GSM1900	GPRS (4 Tx slots)	Bottom Side	10	512	1850.2	25.82	26.50	1.169	0.11	0.742	0.868
	GSM1900	GPRS (4 Tx slots)	Bottom Side	10	661	1880	25.77	26.50	1.183	0.09	0.705	0.834
12	GSM1900	GPRS (4 Tx slots)	Bottom Side	10	810	1909.8	25.81	26.50	1.172	0.05	0.776	<mark>0.910</mark>

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	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	10	4233	846.6	22.74	23.00	1.062	0.09	0.215	0.228
13	WCDMA Band V	RMC 12.2Kbps	Back	10	4233	846.6	22.74	23.00	1.062	0.01	0.263	<mark>0.279</mark>
	WCDMA Band V	RMC 12.2Kbps	Left Side	10	4233	846.6	22.74	23.00	1.062	0.06	0.085	0.090
	WCDMA Band V	RMC 12.2Kbps	Right Side	10	4233	846.6	22.74	23.00	1.062	0.02	0.261	0.277
	WCDMA Band V	RMC 12.2Kbps	Bottom Side	10	4233	846.6	22.74	23.00	1.062	0.01	0.201	0.213
14	WCDMA Band IV	RMC 12.2Kbps	Front	10	1312	1712.4	22.68	23.00	1.076	0.09	0.735	0.791
	WCDMA Band IV	RMC 12.2Kbps	Back	10	1312	1712.4	22.68	23.00	1.076	0.02	0.703	0.757
	WCDMA Band IV	RMC 12.2Kbps	Left Side	10	1312	1712.4	22.68	23.00	1.076	0.04	0.354	0.381
	WCDMA Band IV	RMC 12.2Kbps	Right Side	10	1312	1712.4	22.68	23.00	1.076	0.03	0.208	0.224
	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	1312	1712.4	22.68	23.00	1.076	0.01	0.734	0.790
	WCDMA Band II	RMC 12.2Kbps	Front	10	9262	1852.4	22.66	23.00	1.081	0.05	0.543	0.587
	WCDMA Band II	RMC 12.2Kbps	Back	10	9262	1852.4	22.66	23.00	1.081	0.08	0.482	0.521
	WCDMA Band II	RMC 12.2Kbps	Left Side	10	9262	1852.4	22.66	23.00	1.081	0.06	0.177	0.191
	WCDMA Band II	RMC 12.2Kbps	Right Side	10	9262	1852.4	22.66	23.00	1.081	-0.04	0.145	0.157
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	9262	1852.4	22.66	23.00	1.081	0.01	0.798	0.863
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	9400	1880	22.47	23.00	1.130	0.04	0.780	0.881
15	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	9538	1907.6	22.49	23.00	1.125	0.01	0.813	0.914

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<LTE SAR>

_															
Plot		BW		RB	RB	Test	Gap		Freq.	Average					
No.	Band	(MHz)	Modulation	Size	Offset	Position	(mm)	Ch.	(MHz)	Power	Limit	Scaling	Drift	1g SAR	1g SAR
	LTE Dand 40	` '	ODCK	4	40	Cua mt	10	22005		(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 12	10M 10M	QPSK QPSK	1	49 49	Front Back	10	23095 23095	707.5 707.5	22.78 22.78	23.00	1.052 1.052	-0.15	0.041	0.043
	LTE Band 12	10M					_				23.00		-0.08 -0.11		
10	LTE Band 12		QPSK	1	49	Left Side	10	23095	707.5	22.78	23.00	1.052		0.034	0.036
16	LTE Band 12	10M	QPSK	1	49	Right Side	10	23095	707.5	22.78	23.00	1.052	0.04	0.074	0.078
	LTE Band 12	10M	QPSK	1	49	Bottom Side	10	23095	707.5	22.78	23.00	1.052	0.07	0.024	0.025
	LTE Band 12	10M	QPSK	25	25	Front	10	23095	707.5	21.61	22.00	1.094	0.02	0.032	0.035
	LTE Band 12	10M	QPSK	25	25	Back	10	23095	707.5	21.61	22.00	1.094	0.08	0.040	0.044
	LTE Band 12	10M	QPSK	25	25	Left Side	10	23095	707.5	21.61	22.00	1.094	0.08	0.025	0.027
	LTE Band 12	10M	QPSK	25	25	Right Side	10	23095	707.5	21.61	22.00	1.094	0.07	0.057	0.062
	LTE Band 12	10M	QPSK	25	25	Bottom Side	10	23095	707.5	21.61	22.00	1.094	-0.04	0.019	0.021
17	LTE Band 4	20M	QPSK	1	0	Front	10	20175		22.89	23.50	1.151	0.04	0.776	<mark>0.893</mark>
	LTE Band 4	20M	QPSK	1	0	Back	10	20175		22.89	23.50	1.151	0.05	0.729	0.839
	LTE Band 4	20M	QPSK	1	0	Left Side	10	20175		22.89	23.50	1.151	0.04	0.351	0.404
	LTE Band 4	20M	QPSK	1	0	Right Side	10	20175		22.89	23.50	1.151	0.03	0.200	0.230
	LTE Band 4	20M	QPSK	1	0	Bottom Side	10	20175		22.89	23.50	1.151	0.03	0.774	0.891
	LTE Band 4	20M	QPSK	50	0	Front	10	20175		22.03	22.50	1.114	0.04	0.626	0.698
	LTE Band 4	20M	QPSK	50	0	Back	10	20175	1732.5	22.03	22.50	1.114	0.07	0.590	0.657
	LTE Band 4	20M	QPSK	50	0	Left Side	10	20175	1732.5	22.03	22.50	1.114	0.07	0.281	0.313
	LTE Band 4	20M	QPSK	50	0	Right Side	10	20175	1732.5	22.03	22.50	1.114	0.05	0.158	0.176
	LTE Band 4	20M	QPSK	50	0	Bottom Side	10	20175	1732.5	22.03	22.50	1.114	0.05	0.633	0.705
	LTE Band 4	20M	QPSK	100	0	Front	10	20175	1732.5	21.98	22.50	1.127	0.01	0.619	0.698
	LTE Band 4	20M	QPSK	100	0	Back	10	20175	1732.5	21.98	22.50	1.127	0.04	0.598	0.674
	LTE Band 4	20M	QPSK	100	0	Bottom Side	10	20175	1732.5	21.98	22.50	1.127	0.01	0.636	0.717
	LTE Band 2	20M	QPSK	1	0	Front	10	18700	1860	23.12	23.50	1.091	0.08	0.662	0.723
	LTE Band 2	20M	QPSK	1	0	Back	10	18700	1860	23.12	23.50	1.091	-0.02	0.590	0.644
	LTE Band 2	20M	QPSK	1	0	Left Side	10	18700	1860	23.12	23.50	1.091	-0.02	0.207	0.226
	LTE Band 2	20M	QPSK	1	0	Right Side	10	18700	1860	23.12	23.50	1.091	0.07	0.170	0.186
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	18700	1860	23.12	23.50	1.091	0.03	0.947	1.034
18	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	18900	1880	22.84	23.50	1.164	0.08	0.925	1.077
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	19100	1900	22.75	23.50	1.189	0.09	0.905	1.076
	LTE Band 2	20M	QPSK	50	0	Front	10	18700	1860	22.07	22.50	1.104	0.07	0.532	0.587
	LTE Band 2	20M	QPSK	50	0	Back	10	18700	1860	22.07	22.50	1.104	0.01	0.445	0.491
	LTE Band 2	20M	QPSK	50	0	Left Side	10	18700	1860	22.07	22.50	1.104	0.04	0.157	0.173
	LTE Band 2	20M	QPSK	50	0	Right Side	10	18700	1860	22.07	22.50	1.104	-0.03	0.134	0.148
	LTE Band 2	20M	QPSK	50	0	Bottom Side	10	18700	1860	22.07	22.50	1.104	0.07	0.764	0.844
	LTE Band 2	20M	QPSK	50	0	Bottom Side	10	18900	1880	22.04	22.50	1.112	0.05	0.751	0.835
	LTE Band 2	20M	QPSK	50	0	Bottom Side		19100		21.76	22.50	1.186	0.06	0.728	0.863
	LTE Band 2	20M	QPSK	100	0	Bottom Side	10	18700	1860	21.96	22.50	1.132	0.05	0.736	0.833
	LTE Band 7	20M	QPSK	1	99	Front		21350	2560	23.69	24.00	1.074	0.02	0.177	0.190
	LTE Band 7	20M	QPSK	1	99	Back		21350		23.69	24.00	1.074	0.02	0.419	0.450
	LTE Band 7	20M	QPSK	1	99	Left Side		21350	2560	23.69	24.00	1.074	0.07	0.124	0.430
	LTE Band 7	20M	QPSK	1	99	Right Side		21350	2560	23.69	24.00	1.074	0.03	0.124	0.133
19	LTE Band 7	20M	QPSK	1	99	Bottom Side		21350	2560	23.69	24.00	1.074	0.04	0.436	0.468
19	LTE Band 7	20M	QPSK	50	50	Front		21350	2560	22.49	23.00	1.125	0.01	0.430	0.488
	LTE Band 7	20M	QPSK	50	50	Back		21350	2560	22.49	23.00	1.125	0.02	0.100	0.180
	LTE Band 7	20M	QPSK	50	50	Left Side				22.49			0.03		
				-				21350	2560		23.00	1.125		0.102	0.115
	LTE Band 7	20M	QPSK	50	50	Right Side		21350	2560	22.49	23.00	1.125	0.08	0.067	0.075
	LTE Band 7	20M	QPSK	50	50	Bottom Side	10	21350	2560	22.49	23.00	1.125	0.09	0.361	0.406

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<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		('VCIA	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10	6	2437	16.60	17.00	1.096	100	1.000	0.05	0.050	0.055
20	WLAN2.4GHz	802.11b 1Mbps	Back	10	6	2437	16.60	17.00	1.096	100	1.000	0.07	0.122	<mark>0.134</mark>
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10	6	2437	16.60	17.00	1.096	100	1.000	0.03	0.074	0.081
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10	6	2437	16.60	17.00	1.096	100	1.000	0.03	0.056	0.061

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15.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	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 (4 Tx slots)	Front	10	251	848.8	28.93	29.50	1.140	0.04	0.511	0.583
21	GSM850	GPRS (4 Tx slots)	Back	10	251	848.8	28.93	29.50	1.140	0.03	0.596	<mark>0.680</mark>
22	GSM1900	GPRS (4 Tx slots)	Front	10	512	1850.2	25.82	26.50	1.169	0.15	0.515	0.602
	GSM1900	GPRS (4 Tx slots)	Back	10	512	1850.2	25.82	26.50	1.169	0.04	0.429	0.502

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	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	10	4233	846.6	22.74	23.00	1.062	0.09	0.215	0.228
23	WCDMA Band V	RMC 12.2Kbps	Back	10	4233	846.6	22.74	23.00	1.062	0.01	0.263	<mark>0.279</mark>
24	WCDMA Band IV	RMC 12.2Kbps	Front	10	1312	1712.4	22.68	23.00	1.076	0.09	0.735	0.791
	WCDMA Band IV	RMC 12.2Kbps	Back	10	1312	1712.4	22.68	23.00	1.076	0.02	0.703	0.757
25	WCDMA Band II	RMC 12.2Kbps	Front	10	9262	1852.4	22.66	23.00	1.081	0.05	0.543	<mark>0.587</mark>
	WCDMA Band II	RMC 12.2Kbps	Back	10	9262	1852.4	22.66	23.00	1.081	0.08	0.482	0.521

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<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	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)
	LTE Band 12	10M	QPSK	1	49	Front	10	23095	707.5	22.78	23.00	1.052	-0.15	0.041	0.043
26	LTE Band 12	10M	QPSK	1	49	Back	10	23095	707.5	22.78	23.00	1.052	-0.08	0.042	0.044
	LTE Band 12	10M	QPSK	25	25	Front	10	23095	707.5	21.61	22.00	1.094	0.02	0.032	0.035
	LTE Band 12	10M	QPSK	25	25	Back	10	23095	707.5	21.61	22.00	1.094	0.08	0.040	0.044
27	LTE Band 4	20M	QPSK	1	0	Front	10	20175	1732.5	22.89	23.50	1.151	0.04	0.776	0.893
	LTE Band 4	20M	QPSK	1	0	Back	10	20175	1732.5	22.89	23.50	1.151	0.05	0.729	0.839
	LTE Band 4	20M	QPSK	50	0	Front	10	20175	1732.5	22.03	22.50	1.114	0.04	0.626	0.698
	LTE Band 4	20M	QPSK	50	0	Back	10	20175	1732.5	22.03	22.50	1.114	0.07	0.590	0.657
	LTE Band 4	20M	QPSK	100	0	Front	10	20175	1732.5	21.98	22.50	1.127	0.01	0.619	0.698
	LTE Band 4	20M	QPSK	100	0	Back	10	20175	1732.5	21.98	22.50	1.127	0.04	0.598	0.674
28	LTE Band 2	20M	QPSK	1	0	Front	10	18700	1860	23.12	23.50	1.091	0.08	0.662	0.723
	LTE Band 2	20M	QPSK	1	0	Back	10	18700	1860	23.12	23.50	1.091	-0.02	0.590	0.644
	LTE Band 2	20M	QPSK	50	0	Front	10	18700	1860	22.07	22.50	1.104	0.07	0.532	0.587
	LTE Band 2	20M	QPSK	50	0	Back	10	18700	1860	22.07	22.50	1.104	0.01	0.445	0.491
	LTE Band 7	20M	QPSK	1	99	Front	10	21350	2560	23.69	24.00	1.074	0.02	0.177	0.190
29	LTE Band 7	20M	QPSK	1	99	Back	10	21350	2560	23.69	24.00	1.074	0.07	0.419	0.450
	LTE Band 7	20M	QPSK	50	50	Front	10	21350	2560	22.49	23.00	1.125	0.02	0.160	0.180
	LTE Band 7	20M	QPSK	50	50	Back	10	21350	2560	22.49	23.00	1.125	0.03	0.391	0.440

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Plo No.	Rand	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10	6	2437	16.60	17.00	1.096	100	1.000	0.05	0.050	0.055
30	WLAN2.4GHz	802.11b 1Mbps	Back	10	6	2437	16.60	17.00	1.096	100	1.000	0.07	0.122	<mark>0.134</mark>

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15.4 Repeated SAR Measurement

No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Ch.	i ieq.	Average Power (dBm)	Limait	Tune-up Scaling Factor	Drift	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	18700	1860	23.12	23.50	1.091	0.03	0.947	1	1.034
2nd	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	18700	1860	23.12	23.50	1.091	0.03	0.930	1.018	1.015

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General Note:

- 1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. 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

No.	Cimultaneous Transmission Configurations	P	ortable Handse	Note	
NO.	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Note
1.	GSM Voice + WLAN2.4GHz	Yes	Yes		
2.	GPRS/EDGE + WLAN2.4GHz	Yes	Yes	Yes	WWAN VoIP
3.	WCDMA + WLAN2.4GHz	Yes	Yes	Yes	WWAN VoIP
4.	LTE + WLAN2.4GHz	Yes	Yes	Yes	WWAN VoIP
5.	GSM Voice + Bluetooth		Yes		
6.	GPRS/EDGE + Bluetooth		Yes		WWAN VoIP
7.	WCDMA+ Bluetooth		Yes		WWAN VoIP
8.	LTE + Bluetooth		Yes		WWAN VoIP

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General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP). 1.
- 2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 3. This device 2.4GHz WLAN support hotspot operation.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously. 4.
- The reported SAR summation is calculated based on the same configuration and test position
- Per KDB 447498 D01v06, 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.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
- For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v06 based on the formula
 - 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	Body worn		
Max Power (dBm)	Test separation	10 mm		
7.5	Estimated SAR (W/kg)	0.126		

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16.1 <u>Head Exposure Conditions</u>

			1	2	4.0	
\/\/\/	AN Band	Exposure Position	WWAN	2.4GHz WLAN	1+2 Summed	
, Thirt Band		Exposure i comon	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
		Right Cheek	0.434	0.162	0.60	
	0014050	Right Tilted	0.231	0.194	0.43	
	GSM850	Left Cheek	0.318	0.400	0.72	
CCM		Left Tilted	0.244	0.377	0.62	
GSM		Right Cheek	0.170	0.162	0.33	
	CCM4000	Right Tilted	0.055	0.194	0.25	
	GSM1900	Left Cheek	0.159	0.400	0.56	
		Left Tilted	0.108	0.377	0.49	
		Right Cheek	0.182	0.162	0.34	
	Dand V	Right Tilted	0.086	0.194	0.28	
	Band V	Left Cheek	0.138	0.400	0.54	
		Left Tilted	0.093	0.377	0.47	
		Right Cheek	0.277	0.162	0.44	
MODAAA	Donal IV	Right Tilted	0.153	0.194	0.35	
WCDMA	Band IV	Left Cheek	0.287	0.400	0.69	
		Left Tilted	0.100	0.377	0.48	
		Right Cheek	0.161	0.162	0.32	
	Dand II	Right Tilted	0.053	0.194	0.25	
	Band II	Left Cheek	0.158	0.400	0.56	
		Left Tilted	0.104	0.377	0.48	
		Right Cheek	0.033	0.162	0.20	
	Band 12	Right Tilted	0.014	0.194	0.21	
	Ballu 12	Left Cheek	0.027	0.400	0.43	
		Left Tilted	0.023	0.377	0.40	
		Right Cheek	0.344	0.162	0.51	
	Dand 4	Right Tilted	0.138	0.194	0.33	
	Band 4	Left Cheek	0.331	0.400	0.73	
LTE		Left Tilted	0.169	0.377	0.55	
LTE		Right Cheek	0.200	0.162	0.36	
	Dond 2	Right Tilted	0.081	0.194	0.28	
	Band 2	Left Cheek	0.182	0.400	0.58	
		Left Tilted	0.130	0.377	0.51	
		Right Cheek	0.038	0.162	0.20	
	Dand 7	Right Tilted	0.040	0.194	0.23	
	Band 7	Left Cheek	0.071	0.400	0.47	
		Left Tilted	0.050	0.377	0.43	

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16.2 Hotspot Exposure Conditions

			1	2	
WW	AN Band	Exposure Position	WWAN	2.4GHz WLAN	1+2 Summed
	ii Dana	Exposure r contern	1g SAR	1g SAR	1g SAR (W/kg)
			(W/kg)	(W/kg)	0.04
		Front	0.583	0.055	0.64
		Back	0.680	0.134	0.81
	GSM850	Left side	0.219		0.22
		Right side	0.645	0.081	0.73
		Top side		0.061	0.06
GSM		Bottom side	0.513		0.51
COIVI		Front	0.602	0.055	0.66
		Back	0.502	0.134	0.64
	GSM1900	Left side	0.196		0.20
	G3W1900	Right side	0.153	0.081	0.23
		Top side		0.061	0.06
		Bottom side	0.910		0.91
		Front	0.228	0.055	0.28
		Back	0.279	0.134	0.41
	Donal V	Left side	0.090		0.09
	Band V	Right side	0.277	0.081	0.36
		Top side		0.061	0.06
		Bottom side	0.213		0.21
		Front	0.791	0.055	0.85
		Back	0.757	0.134	0.89
14400144	5	Left side	0.381		0.38
WCDMA	Band IV	Right side	0.224	0.081	0.31
		Top side		0.061	0.06
		Bottom side	0.790		0.79
		Front	0.587	0.055	0.64
		Back	0.521	0.134	0.66
		Left side	0.191		0.19
	Band II	Right side	0.157	0.081	0.24
		Top side		0.061	0.06
		Bottom side	0.914		0.91

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			1	2	4.0
WWA	AN Band	Exposure Position	WWAN	2.4GHz WLAN	1+2 Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		Front	0.043	0.055	0.10
		Back	0.044	0.134	0.18
	Band 12	Left side	0.036		0.04
	Danu 12	Right side	0.078	0.081	0.16
		Top side		0.061	0.06
		Bottom side	0.025		0.03
		Front	0.893	0.055	0.95
	Band 4	Back	0.839	0.134	0.97
		Left side	0.404		0.40
	Danu 4	Right side	0.230	0.081	0.31
		Top side		0.061	0.06
LTE		Bottom side	0.891		0.89
LIE		Front	0.723	0.055	0.78
		Back	0.644	0.134	0.78
	Band 2	Left side	0.226		0.23
	Danu 2	Right side	0.186	0.081	0.27
		Top side		0.061	0.06
		Bottom side	1.077		1.08
		Front	0.190	0.055	0.25
		Back	0.450	0.134	0.58
	Band 7	Left side	0.133		0.13
	Banu /	Right side	0.087	0.081	0.17
		Top side		0.061	0.06
		Bottom side	0.468		0.47

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16.3 <u>Body-Worn Accessory Exposure Conditions</u>

WWAN Band			1	2	3		
		Exposure	WWAN	2.4GHz WLAN	Bluetooth	1+2 Summed	1+3 Summed
		Position 1g SAR (W/kg)		1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
	GSM850	Front	0.583	0.055	0.126	0.64	0.71
GSM	GSIVIOSU	Back	0.680	0.134	0.126	0.81	0.81
GSIVI	GSM1900	Front	0.602	0.055	0.126	0.66	0.73
	G3W1900	Back	0.502	0.134	0.126	0.64	0.63
	Band V	Front	0.228	0.055	0.126	0.28	0.35
	Dallu V	Back	0.279	0.134	0.126	0.41	0.41
WCDMA	Band IV	Front	0.791	0.055	0.126	0.85	0.92
WCDIVIA		Back	0.757	0.134	0.126	0.89	0.88
	Band II	Front	0.587	0.055	0.126	0.64	0.71
		Back	0.521	0.134	0.126	0.66	0.65
	Band 12	Front	0.043	0.055	0.126	0.10	0.17
	Dallu 12	Back	0.044	0.134	0.126	0.18	0.17
	Band 4	Front	0.893	0.055	0.126	0.95	1.02
LTE	Dailu 4	Back	0.839	0.134	0.126	0.97	0.97
LIE	Band 2	Front	0.723	0.055	0.126	0.78	0.85
	Danu Z	Back	0.644	0.134	0.126	0.78	0.77
	Band 7	Front	0.190	0.055	0.126	0.25	0.32
	Dailu 7	Back	0.450	0.134	0.126	0.58	0.58

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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.

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

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. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

Sporton International (Shenzhen) Inc.

Appendix A. Plots of System Performance Check

The plots are shown as follows.

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System Check_Head_750MHz_170910

DUT: D750V3-SN:1099

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium: HSL_750_170910 Medium parameters used: f = 750 MHz; $\sigma = 0.88$ S/m; $\varepsilon_r = 40.752$; $\rho = 1000$ kg/m³

Date: 2017.09.10

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.9 °C

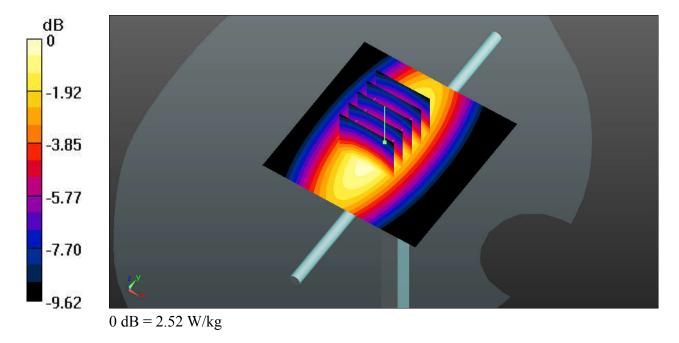
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.99, 10.99, 10.99); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.52 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 53.85 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 2.89 W/kg SAR(1 g) = 2 W/kg; SAR(10 g) = 1.36 W/kg

Maximum value of SAR (measured) = 2.50 W/kg



System Check_Head_835MHz_170910

DUT: D835V2-SN:4d162

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

Medium: HSL_835_170910 Medium parameters used: f = 835 MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 40.749$; ρ

Date: 2017.09.10

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.54, 10.54, 10.54); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

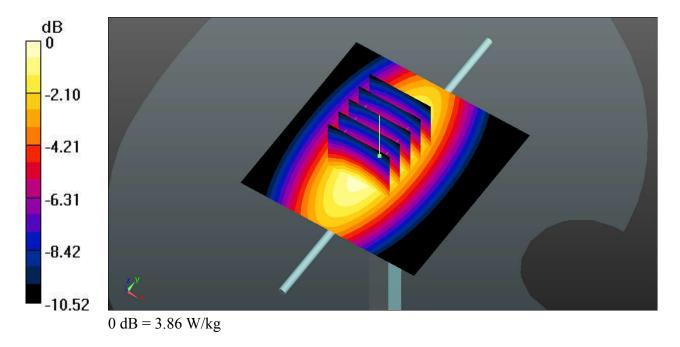
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 3.86 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 67.05 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.30 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (measured) = 3.72 W/kg



System Check_Head_1750MHz_170906

DUT: D1750V2-SN:1137

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

Medium: HSL_1750_170906 Medium parameters used: f = 1750 MHz; $\sigma = 1.392$ S/m; $\varepsilon_r = 39.95$; ρ

Date: 2017.09.06

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.88, 8.88, 8.88); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

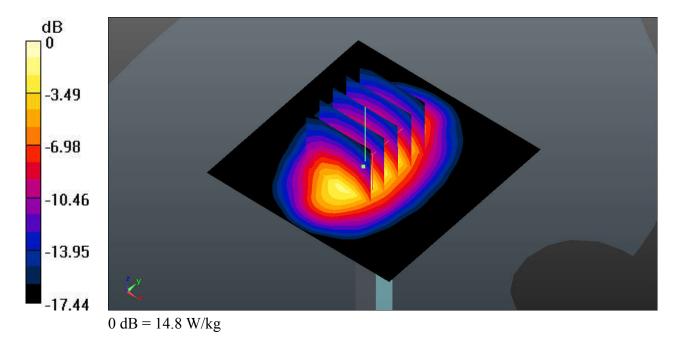
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.8 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 101.2 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 9.54 W/kg; SAR(10 g) = 5.01 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



System Check_Head_1900MHz_170906

DUT: D1900V2-SN:5d182

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

Medium: HSL 1900 170906 Medium parameters used: f = 1900 MHz; $\sigma = 1.449$ S/m; $\varepsilon_r = 40.009$;

Date: 2017.09.06

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

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

DASY5 Configuration:

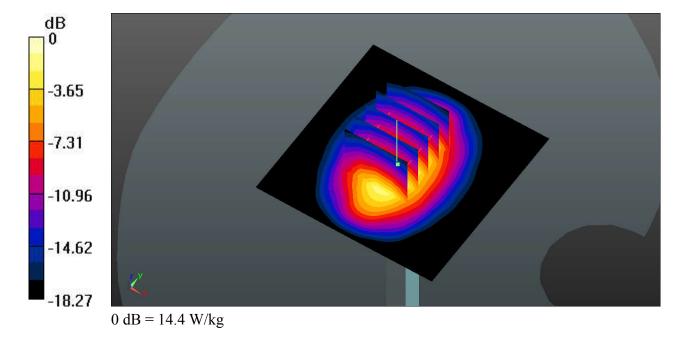
- Probe: EX3DV4 SN3911; ConvF(8.5, 8.5, 8.5); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.4 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 = 0.02 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 9.92 W/kg; SAR(10 g) = 5.15 W/kgMaximum value of SAR (measured) = 14.1 W/kg



System Check_Head_2450MHz_170909

DUT: D2450V2-SN:924

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

Medium: HSL 2450 170909 Medium parameters used: f = 2450 MHz; $\sigma = 1.856$ S/m; $\varepsilon_r = 37.685$;

Date: 2017.09.09

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

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

DASY5 Configuration:

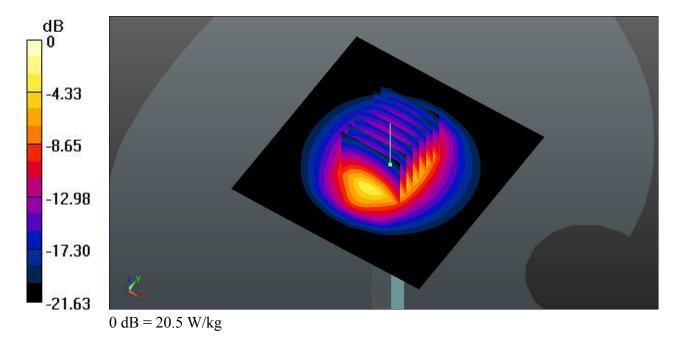
- Probe: EX3DV4 SN3911; ConvF(7.43, 7.43, 7.43); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 20.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 92.88 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 27.2 W/kg

SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.25 W/kg

Maximum value of SAR (measured) = 20.4 W/kg



System Check Head 2600MHz 170909

DUT: D2600V2-SN:1070

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1 Medium: HSL_2600_170909 Medium parameters used: f = 2600 MHz; $\sigma = 2.05$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Date: 2017.09.09

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.5 °C

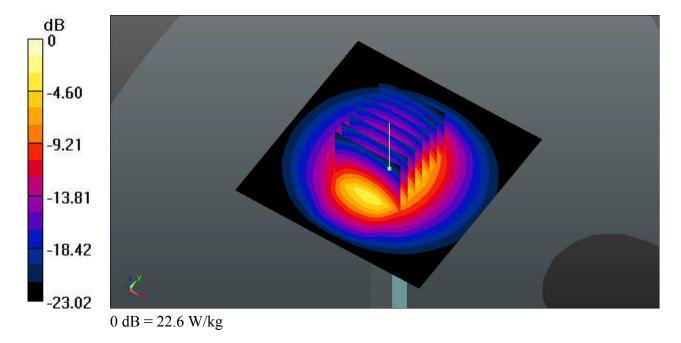
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.39, 7.39, 7.39); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 22.6 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 104.8 V/m; Power Drift = -0.17 dB Peak SAR (extrapolated) = 30.8 W/kg SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.52 W/kg

Maximum value of SAR (measured) = 22.7 W/kg



System Check_Body_750MHz_170908

DUT: D750V3-SN:1099

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium: MSL_750_170908 Medium parameters used: f = 750 MHz; $\sigma = 0.963$ S/m; $\epsilon_r = 54.242$; $\rho = 1000$ kg/m³

Date: 2017.09.08

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

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.43, 10.43, 10.43); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22

0 dB = 2.94 W/kg

- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.94 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 56.52 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 3.44 W/kg SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.57 W/kg Maximum value of SAR (measured) = 2.94 W/kg

-1.97 -3.95 -5.92 -7.90

System Check Body 835MHz 170908

DUT: D835V2-SN:4d162

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

Medium: MSL_835_170908 Medium parameters used: f = 835 MHz; $\sigma = 1.011$ S/m; $\varepsilon_r = 56.243$; ρ

Date: 2017.09.08

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.19, 10.19, 10.19); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

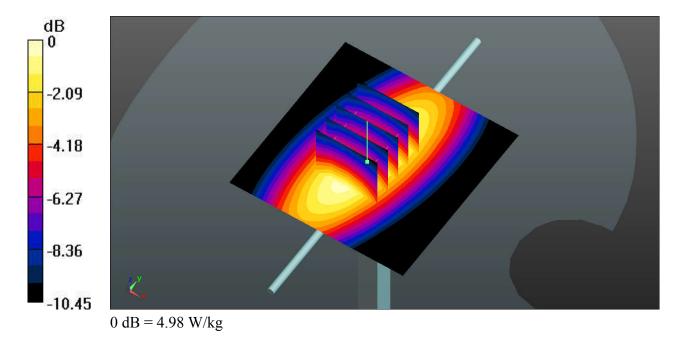
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 4.98 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 71.71 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.75 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (measured) = 4.95 W/kg



System Check_Body_1750MHz_170907

DUT: D1750V2-SN:1137

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

Medium: MSL 1750 170907 Medium parameters used: f = 1750 MHz; $\sigma = 1.527$ S/m; $\varepsilon_r = 52.039$;

Date: 2017.09.07

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

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.46, 8.46, 8.46); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

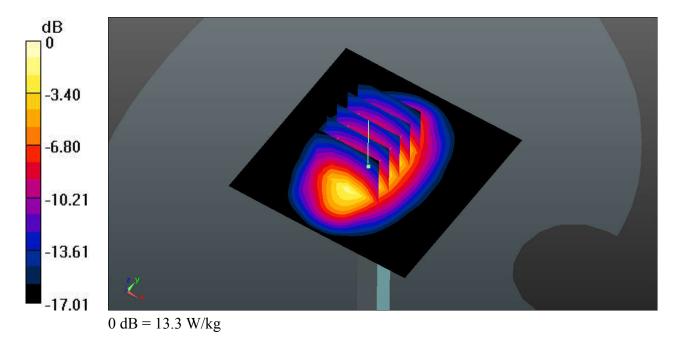
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 94.15 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 9.39 W/kg; SAR(10 g) = 4.94 W/kg

Maximum value of SAR (measured) = 13.3 W/kg



System Check_Body_1900MHz_170907

DUT: D1900V2-SN:5d182

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

Medium: MSL 1900 170907 Medium parameters used: f = 1900 MHz; $\sigma = 1.535$ S/m; $\varepsilon_r = 54.579$;

Date: 2017.09.07

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

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

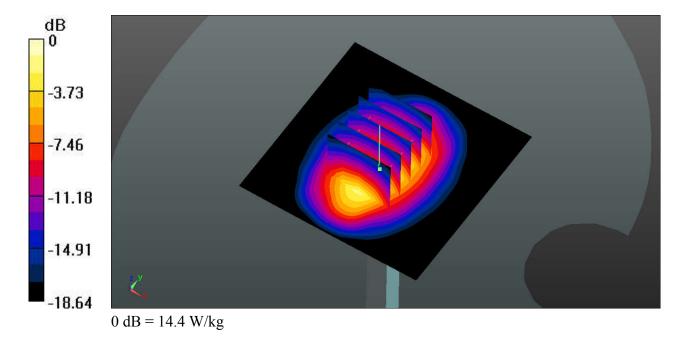
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- 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) = 14.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 85.13 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 18.0 W/kg SAR(1 g) = 9.85 W/kg; SAR(10 g) = 5.01 W/kg

Maximum value of SAR (measured) = 14.2 W/kg



System Check_Body_2450MHz_170909

DUT: D2450V2-SN:924

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

Medium: MSL 2450 170909 Medium parameters used: f = 2450 MHz; $\sigma = 1.913$ S/m; $\varepsilon_r = 50.974$;

Date: 2017.09.09

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.4 °C

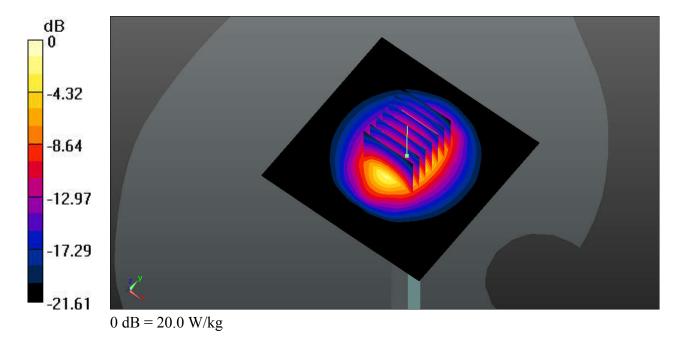
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.66, 7.66, 7.66); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- 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) = 20.1 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 88.51 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.06 W/kgMaximum value of SAR (measured) = 20.0 W/kg



System Check_Body_2600MHz_170909

DUT: D2600V2-SN:1070

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: MSL 2600 170909 Medium parameters used: f = 2600 MHz; $\sigma = 2.165$ S/m; $\varepsilon_r = 53.823$;

Date: 2017.09.09

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

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

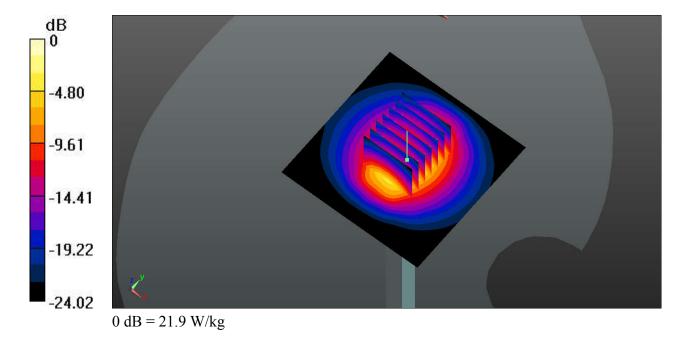
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.38, 7.38, 7.38); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 22.3 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 100.6 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 30.5 W/kg SAR(1 g) = 14 W/kg; SAR(10 g) = 6.14 W/kg

Maximum value of SAR (measured) = 21.9 W/kg



Appendix B. Plots of High SAR Measurement

Report No.: FA790406

The plots are shown as follows.

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 / FAX: +86-755-8637-9595

Issued Date : Sep. 30, 2017

Form version.: 170509 FCC ID: YHLBLULIFEONEX3 Page B1 of B1

01 GSM850 GPRS (4 Tx slots) Right Cheek Ch251

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: HSL_835_170910 Medium parameters used: f = 848.8 MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 40.606$; $\rho = 1000$ kg/m³

Date: 2017.09.10

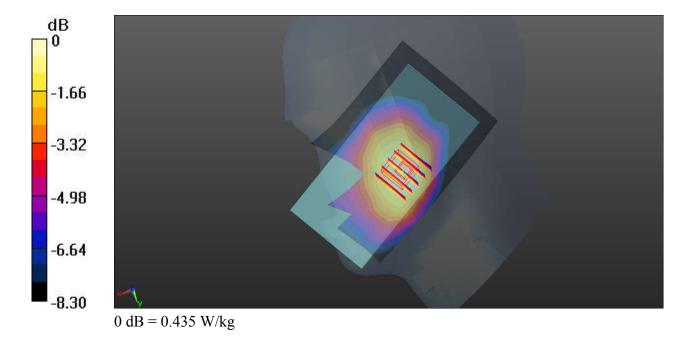
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.54, 10.54, 10.54); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.435 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.337 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.442 W/kg SAR(1 g) = 0.381 W/kg; SAR(10 g) = 0.302 W/kg Maximum value of SAR (measured) = 0.419 W/kg



02_GSM1900_GPRS (4 Tx slots)_Right Cheek_Ch512

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08 Medium: HSL_1900_170906 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.398$ S/m; $\varepsilon_r = 40.235$; $\rho = 1000$ kg/m³

Date: 2017.09.06

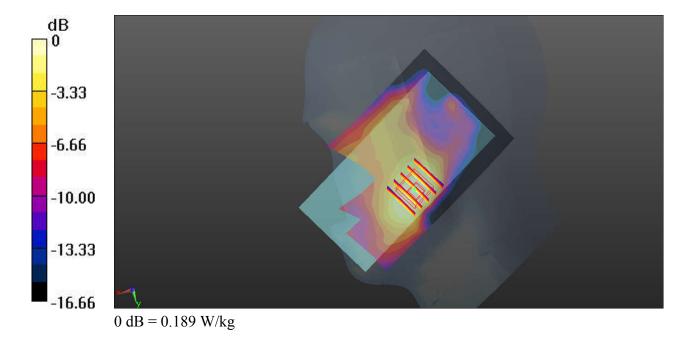
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.5, 8.5, 8.5); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.189 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 0 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.205 W/kg SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.093 W/kg Maximum value of SAR (measured) = 0.175 W/kg



03 WCDMA Band V RMC 12.2Kbps Right Cheek Ch4233

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

Medium: HSL 835 170910 Medium parameters used: f = 846.6 MHz; $\sigma = 0.911$ S/m; $\varepsilon_r = 40.638$;

Date: 2017.09.10

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.8 °C

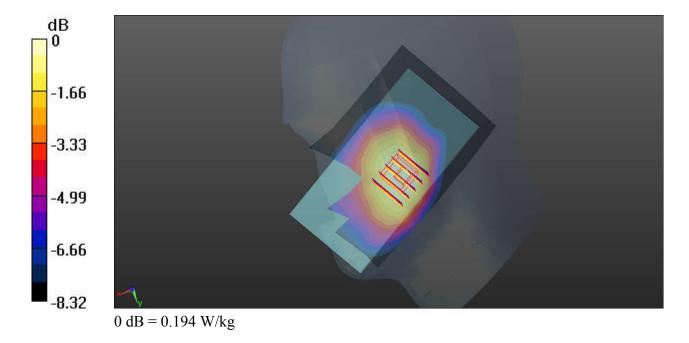
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.54, 10.54, 10.54); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.194 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 0.2930 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.201 W/kg SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.187 W/kg



04_WCDMA Band IV_RMC 12.2Kbps_Left Cheek_Ch1312

Communication System: UID 0, UMTS (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1 Medium: HSL_1750_170906 Medium parameters used: f = 1712.4 MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 39.938$; $\rho = 1000$ kg/m³

Date: 2017.09.06

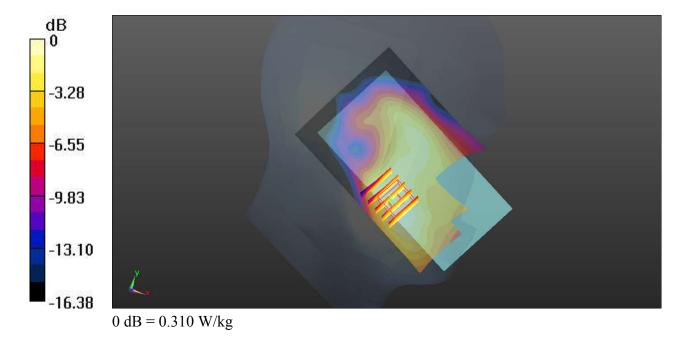
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.88, 8.88, 8.88); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.330 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 0 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.342 W/kg SAR(1 g) = 0.267 W/kg; SAR(10 g) = 0.193 W/kg Maximum value of SAR (measured) = 0.310 W/kg



05 WCDMA Band II_RMC 12.2Kbps Right Cheek Ch9262

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

Medium: HSL_1900_170906 Medium parameters used: f = 1852.4 MHz; $\sigma = 1.4$ S/m; $\varepsilon_r = 40.226$;

Date: 2017.09.06

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

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

DASY5 Configuration:

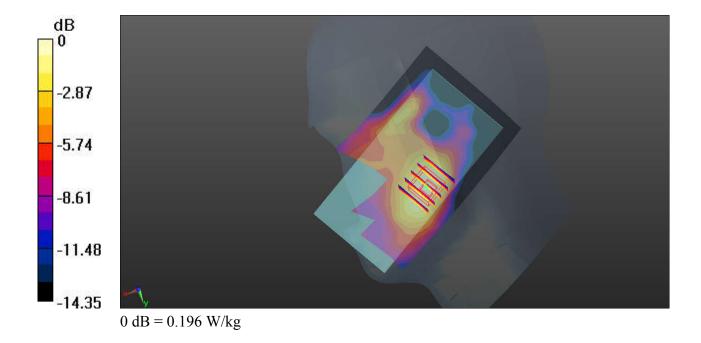
- Probe: EX3DV4 SN3911; ConvF(8.5, 8.5, 8.5); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.196 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 0 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.208 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.096 W/kgMaximum value of SAR (measured) = 0.179 W/kg



06 LTE Band 12 10M QPSK 1RB 49Offset Right Cheek Ch23095

Communication System: UID 0, LTE (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: HSL_750_170910 Medium parameters used: f = 707.5 MHz; $\sigma = 0.857$ S/m; $\varepsilon_r = 41.674$;

Date: 2017.09.10

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

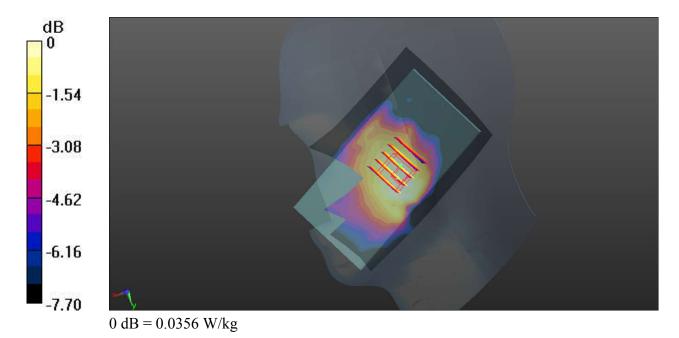
- Probe: EX3DV4 SN3911; ConvF(10.99, 10.99, 10.99); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.0356 W/kg

Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 0 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0360 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.026 W/kgMaximum value of SAR (measured) = 0.0339 W/kg



Communication System: UID 0, LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL_1750_170906 Medium parameters used: f = 1732.5 MHz; $\sigma = 1.38$ S/m; $\varepsilon_r = 39.998$;

Date: 2017.09.06

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

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

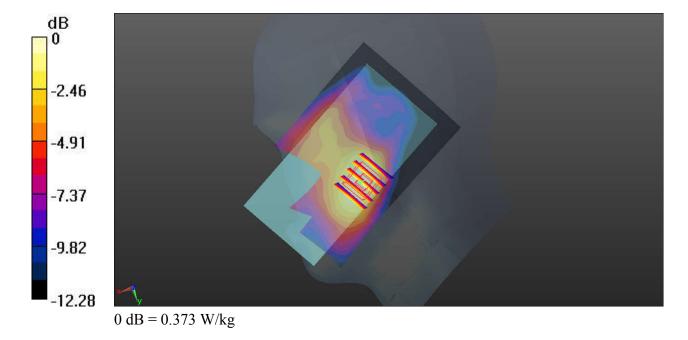
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.88, 8.88, 8.88); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.373 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.416 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.391 W/kg SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.206 W/kg

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



Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL 1900 170906 Medium parameters used: f = 1860 MHz; $\sigma = 1.408$ S/m; $\varepsilon_r = 40.193$;

Date: 2017.09.06

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

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

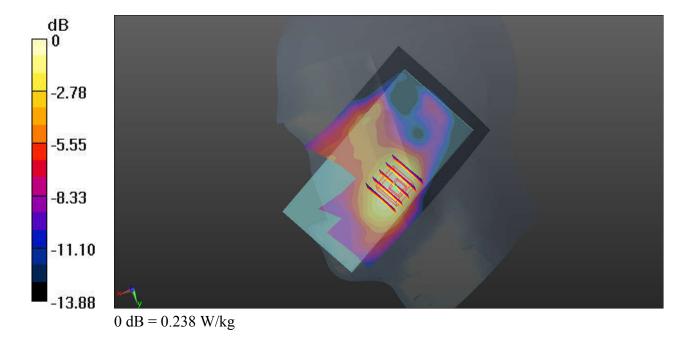
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.5, 8.5, 8.5); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch18700/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.238 W/kg

Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 0 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.254 W/kg SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.119 W/kg

Maximum value of SAR (measured) = 0.218 W/kg



09 LTE Band 7 20M QPSK 1RB 99Offset Left Cheek Ch21350

Communication System: UID 0, LTE (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL_2600_170909 Medium parameters used: f = 2560 MHz; $\sigma = 2.003$ S/m; $\varepsilon_r = 38.557$;

Date: 2017.09.09

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

Ambient Temperature: 23.6 °C; Liquid Temperature: 22.5 °C

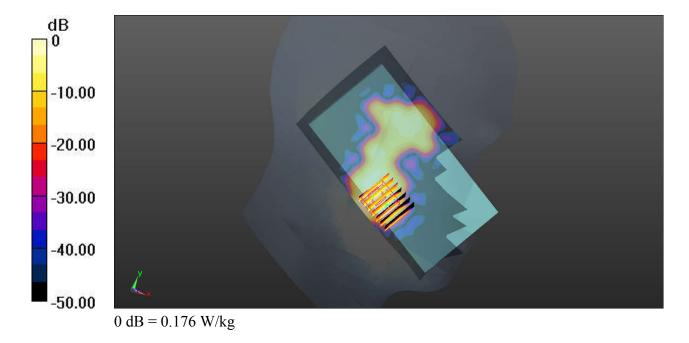
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.39, 7.39, 7.39); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21350/Area Scan (81x151x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.176 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 0.8890 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.115 W/kg SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.032 W/kg

Maximum value of SAR (measured) = 0.0884 W/kg



10_WLAN2.4GHz_802.11b 1Mbps_Left Cheek_Ch6

Communication System: UID 0, WIFI (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL_2450_170909 Medium parameters used: f = 2437 MHz; $\sigma = 1.842$ S/m; $\varepsilon_r = 37.736$;

Date: 2017.09.09

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.43, 7.43, 7.43); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (81x151x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.584 W/kg

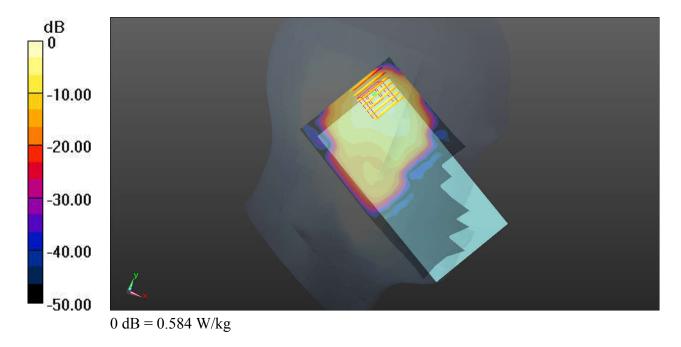
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.668 W/kg

SAR(1 g) = 0.365 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 0.520 W/kg



11_GSM850_GPRS (4 Tx slots)_Back_10mm_Ch251

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: MSL_835_170908 Medium parameters used: f = 848.8 MHz; $\sigma = 1.026$ S/m; $\varepsilon_r = 56.11$; $\rho = 1000$ kg/m³

Date: 2017.09.08

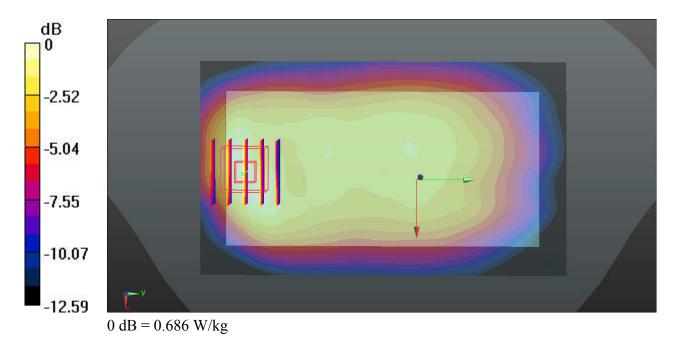
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.19, 10.19, 10.19); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.686 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.791 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.908 W/kg SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.363 W/kg Maximum value of SAR (measured) = 0.756 W/kg



12_GSM1900 GPRS (4 Tx slots) Bottom Side 10mm Ch810

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.08 Medium: MSL_1900_170907 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.544$ S/m; $\epsilon_r = 54.559$; $\rho = 1000$ kg/m³

Date: 2017.09.07

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.968 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.337 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.20 W/kg SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.416 W/kg Maximum value of SAR (measured) = 1.01 W/kg

-3.51 -7.02 -10.54 -14.05 0 dB = 0.968 W/kg

13 WCDMA Band V_RMC 12.2Kbps Back 10mm Ch4233

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

Medium: MSL_835_170908 Medium parameters used: f = 846.6 MHz; $\sigma = 1.024$ S/m; $\epsilon_r = 56.127$;

Date: 2017.09.08

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.19, 10.19, 10.19); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.299 W/kg

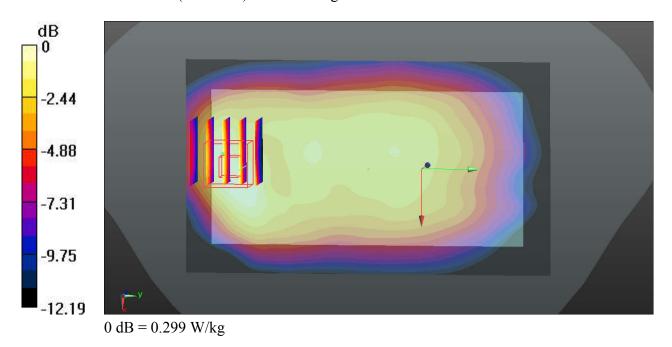
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.776 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.409 W/kg

SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.322 W/kg



14 WCDMA Band IV_RMC 12.2Kbps Front 10mm Ch1312

Communication System: UID 0, UMTS (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1 Medium: MSL_1750_170907 Medium parameters used: f = 1712.4 MHz; $\sigma = 1.486$ S/m; $\epsilon_r = 52.208$; $\rho = 1000$ kg/m³

Date: 2017.09.07

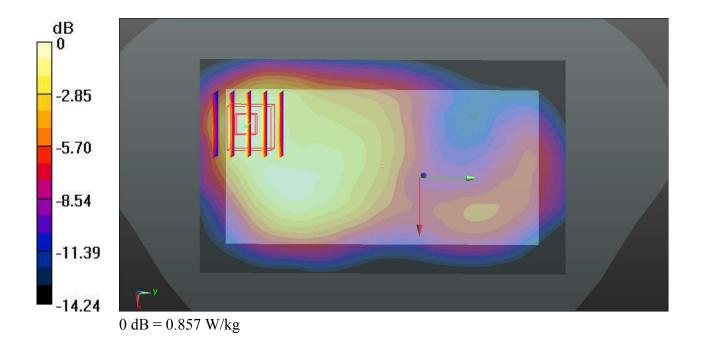
Ambient Temperature: 23.4°C; Liquid Temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.46, 8.46, 8.46); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.857 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.778 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 1.07 W/kg SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.448 W/kg Maximum value of SAR (measured) = 0.955 W/kg



15_WCDMA Band II_RMC 12.2Kbps_Bottom Side_10mm_Ch9538

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium: MSL_1900_170907 Medium parameters used: f = 1907.6 MHz; $\sigma = 1.542$ S/m; $\varepsilon_r = 54.565$; $\sigma = 1000$ kg/m³

Date: 2017.09.07

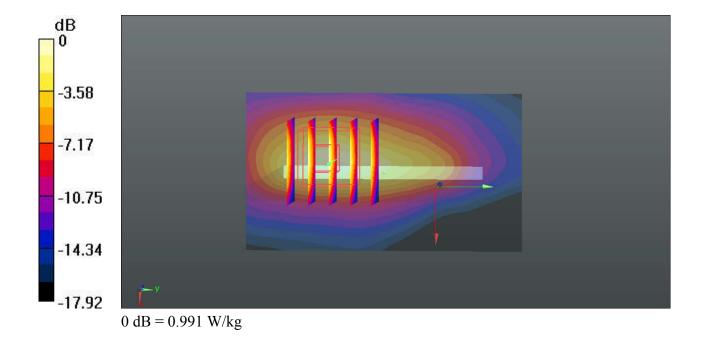
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.17, 8.17, 8.17); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.991 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.325 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 1.25 W/kg SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.436 W/kg Maximum value of SAR (measured) = 1.06 W/kg



16 LTE Band 12 10M QPSK 1RB 49Offset Right Side 10mm Ch23095

Communication System: UID 0, LTE (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: MSL 750 170908 Medium parameters used: f = 707.5 MHz; $\sigma = 0.933$ S/m; $\varepsilon_r = 55.206$;

Date: 2017.09.08

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(10.43, 10.43, 10.43); Calibrated: 2016.09.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2016.11.22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (31x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.0869 W/kg

Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.863 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0960 W/kg

SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.0875 W/kg

