FCC SAR Test Report

APPLICANT: Sony Mobile Communications Inc.

BRAND NAME: Sony

FCC ID : PY7-08618V

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2013

We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Manager

Cole huans

Approved by: Jones Tsai / Manager

lac-MRA



Report No.: FA6D2925

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA6D2925	Rev. 01	Initial issue of report	Mar. 03, 2017

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1. Statement of Compliance

Applicant Name	Sony Mobile Communications INC.			
EUT Description	GSM/WCDMA/LTE Phone+Bluetooth, DTS/UNII a/b/g/n and NFC			
Brand Name	Sony			
FCC ID	PY7-08618V			
HW Version	Α			
SW Version	1.21			
		Equipment Class		
RF Exposure Conditions	Licensed	DTS	U-NII	
Head (1g SAR W/kg)	0.43	1.13	0.86	
Body-Worn (1g SAR W/kg)	0.49	0.11	0.24	
Wireless Router (1g SAR W/kg)	0.94	0.25	0.47	
Product Specific (10g SAR W/kg)			0.67	
Highest Simultaneous Transmission (1g SAR W/kg)	Head:1.46 Body-worn:0.73 Hotspot:1.21	Head:1.46 Body-worn:0.60 Hotspot:1.19	Head:1.20 Body-worn:0.73 Hotspot:1.21	
Date Tested	2017/1/6~2017/2/7			
Test Result	Pass			
Remark:				

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- 1. This device 2.4GHz / 5.2GHz / 5.8 GHz WLAN support Hotspot operation.
- 2. LTE B7 power reduction is activated in hotspot mode.
- 3. 802.11n-HT40 is not supported in 2.4GHz WLAN.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body, 4.0 W/kg for Product Specific) 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.

2. Administration Data

Testing Laboratory		
Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	

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Applicant Applicant		
Company Name	Sony Mobile Communications Inc.	
Address	4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan	

Manufacturer		
Company Name	Sony Mobile Communications Inc.	
Address	4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan	

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

4. Equipment Under Test (EUT) Information

4.1 General Information

Wireless Technologies	Frequency	Operating Mode	
GSM	850 1900	· GSM Voice · GPRS (GMSK) · EDGE (8PSK)	Multi-Slot Class: Class 12
	Does device support dual transfer mode? (No)		
W-CDMA (UMTS)	Band 2 Band 5	· AMR / RMC 12.2Kbps · HSDPA · HSUPA · DC-HSDPA	
LTE (FDD)	Band 2 Band 5 Band 7	· QPSK · 16QAM	
	2.4GHz: 2412 MHz ~ 2462 MHz	· 11b · 11g · 11n (HT20)	
WiFi	5GHz: 5.2GHz: 5180 MHz ~ 5240 MHz 5.3GHz: 5260 MHz ~ 5320 MHz 5.5GHz: 5500 MHz ~ 5720 MHz 5.8GHz: 5745 MHz ~ 5825 MHz	· 11a · 11n (HT20) · 11n (HT40) · WLAN operation in 5600M	1Hz ~ 5650MHz is notched
Bluetooth	2.4GHz	· BR / EDR / LE	
NFC	13.56MHz	· ASK	

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Accessories Information			
Earphone	Model Name	MH410c	
Earphone	S/N	N/A	

4.2 Device Serial Number

Band	SN
WWAN	WUJ01NN1BK
WLAN	WUJ01NNBWM

Note: Several samples were used with identical hardware to support SAR testing. The manufacturer has confirmed that the device tested gave the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.

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5. RF Exposure Limits

5.1 Uncontrolled Environment

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

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5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

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

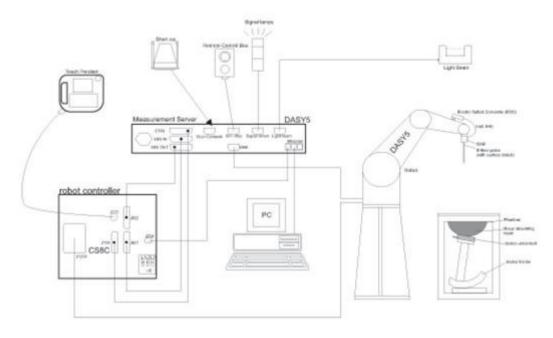
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

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.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	$5 \mu W/g - >100 \text{ mW/g}$; Linearity: $\pm 0.2 \text{ dB}$	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	A.



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<EX3DV4 Probe>

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



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 5
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>

1==::::::a:::(0::::>		
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.

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>

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

<SAR measurement>

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

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

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

8.1 Spatial Peak SAR Evaluation

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

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

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

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

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8.2 Power Reference Measurement

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

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8.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz: } \le 12 \text{ mm}$ $4 - 6 \text{ GHz: } \le 10 \text{ mm}$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}},\Delta y_{\text{Area}}$	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 [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform	grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3 - 4 \text{ GHz: } \le 3 \text{ mm}$ $4 - 5 \text{ GHz: } \le 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
surface	grid	Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·∆z	Z _{Zoom} (n-1)
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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

8.5 Volume Scan Procedures

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

8.6 Power Drift Monitoring

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

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When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 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

Monufactures	Name of Equipment	Turno/Madal	Carial Number	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	499	Mar. 21, 2016	Mar. 20, 2017
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Sep. 30, 2016	Sep. 29, 2017
SPEAG	2450MHz System Validation Kit	D2450V2	736	Aug. 30, 2016	Aug. 29, 2017
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Aug. 30, 2016	Aug. 29, 2017
SPEAG	5GHz System Validation Kit	D5GHzV2	1040	Jun. 17, 2016	Jun. 16, 2017
SPEAG	Data Acquisition Electronics	DAE4	1388	Oct. 10, 2016	Oct. 09, 2017
SPEAG	Data Acquisition Electronics	DAE3	495	May. 27, 2016	May. 26, 2017
SPEAG	Data Acquisition Electronics	DAE4	1399	Nov. 17, 2016	Nov. 16, 2017
SPEAG	Data Acquisition Electronics	DAE4	778	May. 12, 2016	May. 11, 2017
SPEAG	Dosimetric E-Field Probe	EX3DV4	3697	Oct. 25, 2016	Oct. 24, 2017
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	May. 26, 2016	May. 25, 2017
SPEAG	Dosimetric E-Field Probe	EX3DV4	3955	Nov. 24, 2016	Nov. 23, 2017
SPEAG	Dosimetric E-Field Probe	ES3DV3	3270	Aug. 26, 2016	Aug. 25, 2017
WonDer	Thermometer	WD-5015	TM685	Oct. 12, 2016	Oct. 11, 2017
WonDer	Thermometer	WD-5015	TM281	Oct. 12, 2016	Oct. 11, 2017
Wisewind	Thermometer	HTC-1	TM560	Oct. 12, 2016	Oct. 11, 2017
Wisewind	Thermometer	HTC-1	TM225	Oct. 12, 2016	Oct. 11, 2017
Anritsu	Radio Communication Analyzer	MT8820C	6201381760	May. 10, 2016	May. 09, 2017
Agilent	Wireless Communication Test Set	E5515C	MY50266977	May. 17, 2016	May. 16, 2017
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Dec. 09, 2016	Dec. 08, 2017
Agilent	ENA Network Analyzer	E5071C	MY46316648	Jan. 04, 2017	Jan. 03, 2018
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Jul. 19, 2016	Jul. 18, 2017
LINE SEIKI	Digital Thermometer	LKMelectronic	DTM3000SPEZIAL	Sep. 05, 2016	Sep. 04, 2017
Anritsu	Power Meter	ML2495A	1419002	May. 10, 2016	May. 09, 2017
Anritsu	Power Sensor	MA2411B	1339124	May. 10, 2016	May. 09, 2017
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jun. 21, 2016	Jun. 20, 2017
Mini-Circuits	Power Amplifier	ZVE-8G+	D120604	Mar. 16, 2016	Mar. 15, 2017
Mini-Circuits	Power Amplifier	ZHL-42W+	QA1344002	Mar. 16, 2016	Mar. 15, 2017
ATM	Dual Directional Coupler	C122H-10	P610410z-02	No	te 1
Woken	Attenuator 1	WK0602-XX	N/A	No	te 1
PE	Attenuator 2	PE7005-10	N/A	No	te 1
PE	Attenuator 3	PE7005- 3	N/A	No	te 1

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General Note:

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

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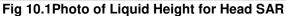
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10. System Verification

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

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tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)				
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				
900	40.3	57.9	0.2	1.4	0.2	0	0.97	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				
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0				
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				

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)				
Water	64~78%				
Mineral oil	11~18%				
Emulsifiers	9~15%				
Additives and Salt	2~3%				

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
835	HSL	22.4	0.884	41.929	0.90	41.50	-1.78	1.03	±5	2017/1/9
835	MSL	22.4	0.980	57.429	0.97	55.20	1.03	4.04	±5	2017/1/6
835	MSL	22.4	0.978	57.041	0.97	55.20	0.82	3.34	±5	2017/1/8
1900	HSL	22.3	1.449	38.832	1.40	40.00	3.50	-2.92	±5	2017/1/12
1900	MSL	22.5	1.513	54.589	1.52	53.30	-0.46	2.42	±5	2017/1/7
2450	HSL	22.3	1.872	39.776	1.80	39.20	4.00	1.47	±5	2017/1/22
2450	MSL	22.6	1.986	53.073	1.95	52.70	1.85	0.71	±5	2017/1/24
2450	MSL	22.6	1.986	53.073	1.95	52.70	1.85	0.71	±5	2017/1/24
2600	HSL	22.5	2.016	39.005	1.96	39.00	2.86	0.01	±5	2017/1/15
2600	MSL	22.6	2.206	53.322	2.16	52.50	2.13	1.57	±5	2017/1/17
5200	MSL	22.8	5.478	47.150	5.30	49.00	3.36	-3.78	±5	2017/1/17
5300	HSL	22.6	4.652	35.517	4.76	35.90	-2.27	-1.07	±5	2017/1/13
5300	MSL	22.8	5.611	46.972	5.42	48.90	3.52	-3.94	±5	2017/1/17
5300	MSL	22.4	5.560	47.252	5.42	48.90	2.58	-3.37	±5	2017/1/24
5600	HSL	22.6	4.949	35.097	5.07	35.50	-2.39	-1.14	±5	2017/1/13
5600	MSL	22.8	6.010	46.429	5.77	48.50	4.16	-4.27	±5	2017/1/17
5600	MSL	22.4	5.941	46.671	5.77	48.50	2.96	-3.77	±5	2017/1/24
5800	HSL	22.6	5.153	34.828	5.27	35.30	-2.22	-1.34	±5	2017/1/13
5800	MSL	22.8	6.277	46.096	6.00	48.20	4.62	-4.37	±5	2017/1/17
5800	MSL	22.4	6.204	46.299	6.00	48.20	3.40	-3.94	±5	2017/1/24
5800	MSL	22.2	5.920	46.100	6.00	48.20	-1.33	-4.36	±5	2017/2/7

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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.

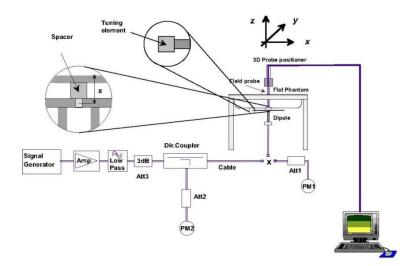
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Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2017/1/9	835	HSL	250	D835V2-499	EX3DV4 - SN3955	DAE4 Sn1399	2.29	9.14	9.16	0.22
2017/1/6	835	MSL	250	D835V2-499	EX3DV4 - SN3925	DAE3 Sn495	2.35	9.52	9.40	-1.26
2017/1/8	835	MSL	250	D835V2-499	EX3DV4 - SN3955	DAE4 Sn1399	2.54	9.52	10.16	6.72
2017/1/12	1900	HSL	250	D1900V2-5d041	EX3DV4 - SN3955	DAE4 Sn1399	10.20	40.50	40.80	0.74
2017/1/7	1900	MSL	250	D1900V2-5d041	EX3DV4 - SN3955	DAE4 Sn1399	10.10	38.80	40.40	4.12
2017/1/22	2450	HSL	250	D2450V2-736	ES3DV3 - SN3270	DAE4 Sn778	13.80	53.10	55.20	3.95
2017/1/24	2450	MSL	250	D2450V2-736	ES3DV3 - SN3270	DAE4 Sn778	12.70	52.10	50.80	-2.50
2017/1/24	2450	MSL	250	D2450V2-736	EX3DV4 - SN3697	DAE4 Sn1388	12.80	52.10	51.20	-1.73
2017/1/15	2600	HSL	250	D2600V2-1008	EX3DV4 - SN3925	DAE3 Sn495	13.80	56.80	55.20	-2.82
2017/1/17	2600	MSL	250	D2600V2-1008	EX3DV4 - SN3925	DAE3 Sn495	13.70	55.20	54.80	-0.72
2017/1/17	5200	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	7.77	72.90	77.70	6.58
2017/1/13	5300	HSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	8.12	81.70	81.20	-0.61
2017/1/17	5300	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	7.79	76.40	77.90	1.96
2017/1/24	5300	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	7.72	76.40	77.20	1.05
2017/1/13	5600	HSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	8.72	80.50	87.20	8.32
2017/1/17	5600	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	7.89	78.40	78.90	0.64
2017/1/24	5600	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	7.69	78.40	76.90	-1.91
2017/1/13	5800	HSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	8.09	75.90	80.90	6.59
2017/1/17	5800	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	7.55	75.20	75.50	0.40
2017/1/24	5800	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	7.46	75.20	74.60	-0.80
2017/2/7	5800	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	7.13	75.20	71.30	-5.19

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Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2017/1/9	835	HSL	250	D835V2-499	EX3DV4 - SN3955	DAE4 Sn1399	1.52	5.97	6.08	1.84
2017/1/6	835	MSL	250	D835V2-499	EX3DV4 - SN3925	DAE3 Sn495	1.57	6.28	6.28	0.00
2017/1/8	835	MSL	250	D835V2-499	EX3DV4 - SN3955	DAE4 Sn1399	1.67	6.28	6.68	6.37
2017/1/12	1900	HSL	250	D1900V2-5d041	EX3DV4 - SN3955	DAE4 Sn1399	5.19	21.40	20.76	-2.99
2017/1/7	1900	MSL	250	D1900V2-5d041	EX3DV4 - SN3955	DAE4 Sn1399	5.32	20.60	21.28	3.30
2017/1/22	2450	HSL	250	D2450V2-736	ES3DV3 - SN3270	DAE4 Sn778	6.47	25.00	25.88	3.52
2017/1/24	2450	MSL	250	D2450V2-736	ES3DV3 - SN3270	DAE4 Sn778	5.93	24.40	23.72	-2.79
2017/1/24	2450	MSL	250	D2450V2-736	EX3DV4 - SN3697	DAE4 Sn1388	6.04	24.40	24.16	-0.98
2017/1/15	2600	HSL	250	D2600V2-1008	EX3DV4 - SN3925	DAE3 Sn495	6.16	25.60	24.64	-3.75
2017/1/17	2600	MSL	250	D2600V2-1008	EX3DV4 - SN3925	DAE3 Sn495	6.07	25.00	24.28	-2.88
2017/1/17	5200	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.10	20.50	21.00	2.44
2017/1/13	5300	HSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.25	23.30	22.50	-3.43
2017/1/17	5300	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.08	21.40	20.80	-2.80
2017/1/24	5300	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.07	21.40	20.70	-3.27
2017/1/13	5600	HSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.39	22.90	23.90	4.37
2017/1/17	5600	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.11	21.90	21.10	-3.65
2017/1/24	5600	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.08	21.90	20.80	-5.02
2017/1/13	5800	HSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.24	21.70	22.40	3.23
2017/1/17	5800	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	2.01	20.80	20.10	-3.37
2017/1/24	5800	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	1.99	20.80	19.90	-4.33
2017/2/7	5800	MSL	100	D5GHzV2-1040	EX3DV4 - SN3925	DAE3 Sn495	1.91	20.80	19.10	-8.17



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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

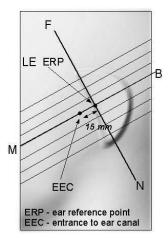
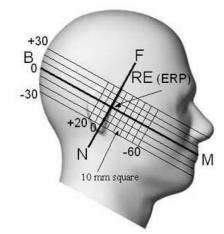


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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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.
- 5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line. 6.
- While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

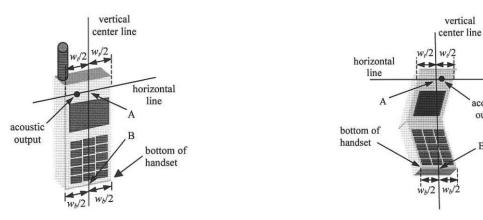


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

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

vertical

acoustic output

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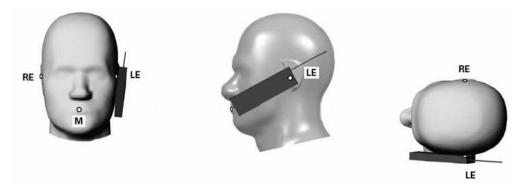


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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11.3 Definition of the tilt position

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

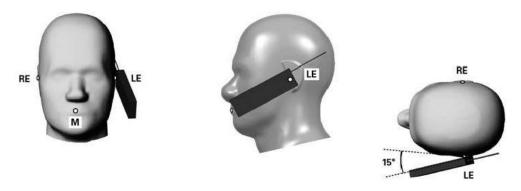


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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.

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.

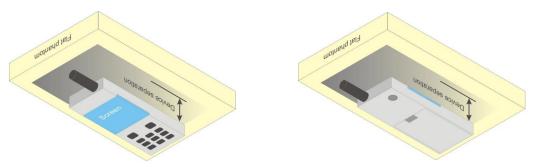


Fig 9.4 Body Worn Position

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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.

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

11.6 Product specific Exposure Configurations

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

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

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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 (2Tx 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	33.35	33.31	33.24	34.00	24.35	24.31	24.24	25.00
GPRS 1 Tx slot	33.35	33.31	33.24	34.00	24.35	24.31	24.24	25.00
GPRS 2 Tx slots	30.24	30.07	29.90	31.00	24.24	24.07	23.90	25.00
GPRS 3 Tx slots	27.98	27.81	27.59	28.00	23.72	23.55	23.33	23.74
GPRS 4 Tx slots	26.96	27.00	26.82	27.00	23.96	24.00	23.82	24.00
EDGE 1 Tx slot	26.90	26.77	26.65	28.00	17.90	17.77	17.65	19.00
EDGE 2 Tx slots	24.98	24.84	24.70	25.00	18.98	18.84	18.70	19.00
EDGE 3 Tx slots	22.79	22.84	22.72	23.00	18.53	18.58	18.46	18.74
EDGE 4 Tx slots	21.96	21.81	21.69	22.00	18.96	18.81	18.69	19.00

GSM1900	Burst Av	Burst Average Power (dBm)			Frame-A	verage Pov	ver (dBm)	Tune-up
TX Channel	512	661	810	Tune-up Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	29.71	29.81	29.82	31.00	20.71	20.81	20.82	22.00
GPRS 1 Tx slot	29.73	29.83	29.84	31.00	20.73	20.83	20.84	22.00
GPRS 2 Tx slots	26.49	26.63	26.65	28.00	20.49	20.63	20.65	22.00
GPRS 3 Tx slots	24.24	24.19	24.36	25.00	19.98	19.93	20.10	20.74
GPRS 4 Tx slots	23.55	23.69	23.58	24.00	20.55	20.69	20.58	21.00
EDGE 1 Tx slot	26.19	26.42	26.29	27.00	17.19	17.42	17.29	18.00
EDGE 2 Tx slots	23.41	23.66	23.46	24.00	17.41	17.66	17.46	18.00
EDGE 3 Tx slots	21.41	21.73	21.57	22.00	17.15	17.47	17.31	17.74
EDGE 4 Tx slots	20.49	20.69	20.54	21.00	17.49	17.69	17.54	18.00

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

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

Sub-test	βο	βa	βa	β _c /β _d	Внѕ	CM (dB)	MPR (dB)
			(SF)		(Note1, Note 2)	(Note 3)	(Note 3)
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 $\beta_{hs} = 30/15 * \beta_c$.
- Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK = 30/15 with β_{hs} = 30/15 * β_c , and \triangle CQI = 24/15 with β_{hs} = 24/15 * β_c .
- Note 3: CM = 1 for β_o/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
- Note 4: For subtest 2 the β_0/β_0 ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_0 = 11/15 and β_d = 15/15.

Setup Configuration

HSUPA Setup Configuration:

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

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

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

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

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

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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.
- Set Ack-Nack Repetition Factor to 3 vii.
- Set CQI Feedback Cycle (k) to 4 ms
- Set CQI Repetition Factor to 2 ix.
- Power Ctrl Mode = All Up bits
- 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	O					
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 is limited to 1, i.e.,								
retransmission is not allowed. The redundancy and								
constellation version 0 shall be used.								

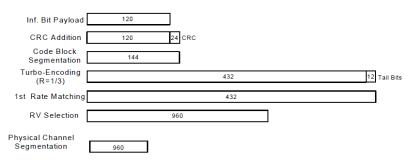


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

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General 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".

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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 / 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 / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

	Band	1	WCDMA I	II			WCDMA V	1	
	TX Channel	9262	9400	9538	Tune-up Limit	4132	4182	4233	Tune-up Limit
	Rx Channel	9662	9800	9938	(dBm)	4357	4407	4458	(dBm)
Fre	equency (MHz)	1852.4	1880	1907.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.92	23.94	23.99	24.00	24.31	24.45	24.37	24.50
3GPP Rel 99	RMC 12.2Kbps	23.95	23.96	24.00	24.00	24.39	24.47	24.38	24.50
3GPP Rel 6	HSDPA Subtest-1	22.88	22.92	22.96	23.00	23.43	23.46	23.40	23.50
3GPP Rel 6	HSDPA Subtest-2	22.86	22.90	22.93	23.00	23.41	23.42	23.36	23.50
3GPP Rel 6	HSDPA Subtest-3	22.43	22.47	22.50	22.50	22.95	22.97	22.86	23.00
3GPP Rel 6	HSDPA Subtest-4	22.38	22.41	22.46	22.50	22.90	22.92	22.87	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.96	22.92	23.00	23.00	23.46	23.44	23.34	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.93	22.91	22.97	23.00	23.40	23.41	23.33	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.39	22.40	22.46	22.50	22.86	22.94	22.80	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.39	22.38	22.45	22.50	22.85	22.88	22.87	23.00
3GPP Rel 6	HSUPA Subtest-1	21.05	21.10	21.03	23.00	21.59	21.53	21.54	23.50
3GPP Rel 6	HSUPA Subtest-2	20.97	20.98	20.98	21.00	21.44	21.43	21.39	21.50
3GPP Rel 6	HSUPA Subtest-3	21.99	21.98	21.97	22.00	22.43	22.40	22.40	22.50
3GPP Rel 6	HSUPA Subtest-4	20.43	20.44	20.45	21.00	20.88	20.86	20.80	21.50
3GPP Rel 6	HSUPA Subtest-5	22.44	22.45	22.49	23.00	22.91	22.93	22.90	23.50

<LTE Conducted Power>

General Note:

 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 B5 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.

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< Default Power Mode>

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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
	Cha	nnel	·	18700	18900	19100	(dBm)	(dB)
	Frequen			1860	1880	1900		
20	QPSK	1	0	23.66	23.75	23.74		
20	QPSK	1	49	23.59	23.66	23.64	24	0
20	QPSK	1	99	23.54	23.59	23.55	1	
20	QPSK	50	0	22.72	22.79	22.74		
20	QPSK	50	24	22.67	22.74	22.70		_
20	QPSK	50	50	22.64	22.74	22.70	23	1
20	QPSK	100	0	22.65	22.73	22.71		
20	16QAM	1	0	22.99	22.96	22.96		
20	16QAM	1	49	22.91	22.95	22.89	23	1
20	16QAM	1	99	22.84	22.94	22.81		
20	16QAM	50	0	21.78	21.82	21.78		
20	16QAM	50	24	21.72	21.78	21.73	1	•
20	16QAM	50	50	21.69	21.79	21.71	22	2
20	16QAM	100	0	21.70	21.77	21.74		
	Cha	nnel		18675	18900	19125	Tune-up limit	MPR
	Frequen	cy (MHz)		1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	0	23.56	23.64	23.59		
15	QPSK	1	37	23.55	23.62	23.57	24	0
15	QPSK	1	74	23.48	23.56	23.46	1	
15	QPSK	36	0	22.66	22.73	22.67		
15	QPSK	36	20	22.64	22.71	22.66	-	
15	QPSK	36	39	22.60	22.70	22.63	23	1
15	QPSK	75	0	22.61	22.69	22.65	1	
15	16QAM	1	0	22.86	22.90	22.86		
15	16QAM	1	37	22.86	22.89	22.79	23	1
15	16QAM	1	74	22.76	22.87	22.67	-	
15	16QAM	36	0	21.70	21.77	21.70		
15	16QAM	36	20	21.69	21.76	21.68		
15	16QAM	36	39	21.65	21.75	21.64	22	2
15	16QAM	75	0	21.66	21.73	21.66	1	
	Cha	nnel		18650	18900	19150	Tune-up limit	MPR
	Frequen	cy (MHz)		1855	1880	1905	(dBm)	(dB)
10	QPSK	1	0	23.57	23.65	23.60		
10	QPSK	1	25	23.54	23.63	23.59	24	0
10	QPSK	1	49	23.42	23.58	23.21		
10	QPSK	25	0	22.63	22.71	22.66		
10	QPSK	25	12	22.62	22.69	22.64	1	
10	QPSK	25	25	22.58	22.67	22.63	23	1
10	QPSK	50	0	22.63	22.71	22.65		
10	16QAM	1	0	22.85	22.92	22.82		
10	16QAM	1	25	22.83	22.89	22.80	23	1
10	16QAM	1	49	22.77	22.87	22.60		
10	16QAM	25	0	21.66	21.74	21.66		
10	16QAM	25	12	21.67	21.71	21.64		
10	16QAM	25	25	21.63	21.70	21.63	22	2
10	16QAM	50	0	21.67	21.74	21.66		

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				10000	10000	10		
nannel				18625	18900	19175	Tune-up limit	MPR
ency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
1	5	4	0	23.60	23.65	23.62	_	
1	5	4	12	23.35	23.68	23.23	24	0
1	5		24	23.49	23.59	23.32		
12	5		0	22.61	22.75	22.56		
12	5		7	22.45	22.75	22.42	23	1
12	5		13	22.57	22.74	22.43	_	•
25	5		0	22.57	22.69	22.47		
1	5		0	22.86	22.91	22.81		
1	5		12	22.71	22.92	22.58	23	1
1	5		24	22.77	22.84	22.67		
12	5		0	21.68	21.78	21.65		
12	5		7	21.54	21.78	21.52	22	2
12	5		13	21.63	21.75	21.59	_	_
25	5		0	21.62	21.71	21.59		
nannel				18615	18900	19185	Tune-up limit	MPR
ency (MHz)				1851.5	1880	1908.5	(dBm)	(dB)
1	3		0	23.53	23.63	23.53		
1	3		8	23.55	23.65	23.34	24	0
1	3		14	23.48	23.59	23.20		
8	3		0	22.66	22.75	22.68		
8	3		4	22.64	22.74	22.62	23	1
8	3		7	22.63	22.72	22.55	23	1
15	3		0	22.64	22.75	22.64		
1	3		0	22.79	22.86	22.71		
1	3		8	22.82	22.89	22.69	23	1
1	3		14	22.76	22.85	22.60		
8	3		0	21.74	21.81	21.71		
8	3		4	21.72	21.81	21.67	00	0
8	3		7	21.72	21.80	21.68	- 22	2
15	3		0	21.68	21.78	21.67		
nannel				18607	18900	19193	Tune-up limit	MPR
ency (MHz)				1850.7	1880	1909.3	(dBm)	(dB)
1	1.4	T	0	23.51	23.63	23.50		
1	1.4		3	23.55	23.67	23.35		
1	1.4		5	23.52	23.61	23.34	0.4	0
3	1.4		0	23.61	23.73	23.44	24	0
3	1.4		1	23.58	23.68	23.38		
3	1.4		3	23.59	23.72	23.33		
6	1.4		0	22.60	22.73	22.60	23	1
1	1.4		0	22.78	22.87	22.69		
1	1.4		3	22.84	22.93	22.70		
1	1.4		5	22.79	22.85	22.66		
3	1.4		0	22.61	22.72	22.57	23	1
3	1.4		1	22.59	22.68	22.53		
3	1.4		3	22.59	22.71	22.52		
6	1.4		0	21.71	21.82	21.68	22	2

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<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High		
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Cha			20450	20525	20600	(ubiii)	(UD)
	Frequenc	cy (MHz)		829	836.5	844		
10	QPSK	1	0	24.14	24.22	24.11		
10	QPSK	1	25	24.13	24.13	24.09	24.5	0
10	QPSK	1	49	24.03	24.03	24.06		
10	QPSK	25	0	23.18	23.13	23.14		
10	QPSK	25	12	23.17	23.14	23.13	23.5	1
10	QPSK	25	25	23.12	23.12	23.12		•
10	QPSK	50	0	23.18	23.17	23.18		
10	16QAM	1	0	23.49	23.49	23.50		
10	16QAM	1	25	23.46	23.47	23.46	23.5	1
10	16QAM	1	49	23.43	23.46	23.38		
10	16QAM	25	0	22.23	22.19	22.19		
10	16QAM	25	12	22.17	22.22	22.19	22.5	2
10	16QAM	25	25	22.06	22.21	22.18		L
10	16QAM	50	0	22.13	22.22	22.23		
	Cha			20425	20525	20625	Tune-up limit	MPR
	Frequenc	cy (MHz)		826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	0	24.20	24.17	24.20		
5	QPSK	1	12	24.13	24.19	24.21	24.5	0
5	QPSK	1	24	24.06	24.11	24.16		
5	QPSK	12	0	23.50	23.29	23.31		
5	QPSK	12	7	23.39	23.29	23.30	23.5	4
5	QPSK	12	13	23.41	23.27	23.31	23.5	1
5	QPSK	25	0	23.34	23.23	23.26		
5	16QAM	1	0	23.43	23.36	23.33		
5	16QAM	1	12	23.43	23.39	23.33	23.5	1
5	16QAM	1	24	23.35	23.50	23.40		
5	16QAM	12	0	22.47	22.39	22.38		
5	16QAM	12	7	22.46	22.38	22.36]	_
5	16QAM	12	13	22.45	22.38	22.38	22.5	2
5	16QAM	25	0	22.38	22.31	22.31		
	Cha	nnel		20415	20525	20635	Tune-up limit	MPR
	Frequenc	cy (MHz)		825.5	836.5	847.5	(dBm)	(dB)
3	QPSK	1	0	24.20	24.14	24.18		
3	QPSK	1	8	24.21	24.19	24.21	24.5	0
3	QPSK	1	14	24.18	24.12	24.21		
3	QPSK	8	0	23.37	23.30	23.32		
3	QPSK	8	4	23.35	23.27	23.34	00.5	,
3	QPSK	8	7	23.35	23.28	23.33	23.5	1
3	QPSK	15	0	23.35	23.27	23.35		
3	16QAM	1	0	23.31	23.35	23.31		
3	16QAM	1	8	23.38	23.40	23.32	23.5	1
3	16QAM	1	14	23.33	23.33	23.23		
3	16QAM	8	0	22.48	22.46	22.43		
3	16QAM	8	4	22.47	22.43	22.45		
3	16QAM	8	7	22.47	22.44	22.44	22.5	2
3	16QAM	15	0	22.40	22.36	22.39	1	

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	Cha	nnel		20407	20525	20643	Tune-up limit	MPR
	Frequen	cy (MHz)		824.7	836.5	848.3	(dBm)	(dB)
1.4	QPSK	1	0	24.03	24.17	24.21		
1.4	QPSK	1	3	24.05	24.19	24.05		
1.4	QPSK	1	5	24.21	24.16	24.02	24.5	0
1.4	QPSK	3	0	24.21	24.06	24.19	24.5	0
1.4	QPSK	3	1	24.18	24.20	24.16		
1.4	QPSK	3	3	24.19	24.03	24.21		
1.4	QPSK	6	0	23.31	23.26	23.34	23.5	1
1.4	16QAM	1	0	23.33	23.35	23.28		
1.4	16QAM	1	3	23.39	23.41	23.29		
1.4	16QAM	1	5	23.34	23.36	23.34	00.5	4
1.4	16QAM	3	0	23.37	23.36	23.33	23.5	ļ.
1.4	16QAM	3	1	23.33	23.31	23.15		
1.4	16QAM	3	3	23.34	23.32	23.25		
1.4	16QAM	6	0	22.43	22.43	22.50	22.5	2

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<LTE Band 7>

<lie band<="" th=""><th></th><th></th><th></th><th>Power</th><th>Power</th><th>Power</th><th></th><th></th></lie>				Power	Power	Power			
BW [MHz]	Modulation	RB Size	RB Offset	Low	Middle	High	Tune-up limit	MPR	
	Cha	ppol		Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	(dBm)	(dB)	
	Cha			20850	21100	21350	(3=)		
00	Frequen		0	2510	2535	2560			
20	QPSK	1	0	24.02	24.20	24.03		•	
20	QPSK	1	49	24.03	24.15	24.07	24.5	0	
20	QPSK	1	99	24.06	24.19	24.14			
20	QPSK	50	0	23.13	23.22	23.14	_		
20	QPSK	50	24	23.13	23.26	23.13	23.5	1	
20	QPSK	50	50	23.14	23.28	23.19	_		
20	QPSK	100	0	23.09	23.24	23.15			
20	16QAM	1	0	23.24	23.39	23.31	_		
20	16QAM	1	49	23.30	23.39	23.32	23.5	1	
20	16QAM	1	99	23.33	23.47	23.35			
20	16QAM	50	0	22.12	22.24	22.17			
20	16QAM	50	24	22.12	22.28	22.16	22.5	2	
20	16QAM	50	50	22.13	22.29	22.21		_	
20	16QAM	100	0	22.09	22.25	22.16			
	Cha	nnel		20825	21100	21375	Tune-up limit	MPR	
	Frequen	cy (MHz)		2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	0	24.01	24.13	24.03			
15	QPSK	1	37	24.02	24.18	24.07	24.5	0	
15	QPSK	1	74	24.03	24.16	24.11			
15	QPSK	36	0	23.12	23.24	23.16			
15	QPSK	36	20	23.14	23.27	23.19	00.5	4	
15	QPSK	36	39	23.13	23.29	23.20	23.5	1	
15	QPSK	75	0	23.12	23.25	23.16			
15	16QAM	1	0	23.22	23.38	23.29			
15	16QAM	1	37	23.28	23.39	23.32	23.5	1	
15	16QAM	1	74	23.30	23.42	23.31			
15	16QAM	36	0	22.13	22.26	22.18			
15	16QAM	36	20	22.16	22.30	22.22			
15	16QAM	36	39	22.14	22.31	22.23	22.5	2	
15	16QAM	75	0	22.13	22.28	22.20			
	Cha	nnel		20800	21100	21400	Tune-up limit	MPR	
	Freguen	cy (MHz)		2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	0	23.88	24.17	23.95			
10	QPSK	1	25	23.92	24.11	24.00	24.5	0	
10	QPSK	1	49	23.88	24.11	24.00			
10	QPSK	25	0	22.99	23.18	23.05			
10	QPSK	25	12	22.98	23.18	23.05			
10	QPSK	25	25	22.99	23.18	23.08	23.5	1	
10	QPSK	50	0	23.02	23.22	23.11			
10	16QAM	1	0	23.10	23.31	23.19			
10	16QAM	1	25	23.17	23.32	23.23	23.5	1	
10	16QAM	1	49	23.17	23.34	23.19	20.0		
10	16QAM	25	0	22.01	22.19	22.07			
	16QAM								
10		25 25	12	22.00	22.20	22.05	22.5	2	
10	16QAM	25 F0	25	22.00	22.20	22.10			
10	16QAM	50	0	22.02	22.25	22.10			

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	Cha	nnel		20775	21100	21425	Tune-up limit	MPR
	Frequen	cy (MHz)		2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	0	23.87	24.11	24.01		
5	QPSK	1	12	23.89	24.15	24.06	24.5	0
5	QPSK	1	24	23.84	24.09	24.00		
5	QPSK	12	0	22.97	23.22	23.11		
5	QPSK	12	7	22.96	23.22	23.12	23.5	1
5	QPSK	12	13	22.99	23.22	23.12	23.5	•
5	QPSK	25	0	22.94	23.21	23.10		
5	16QAM	1	0	23.05	23.31	23.20		
5	16QAM	1	12	23.09	23.34	23.22	23.5	1
5	16QAM	1	24	23.06	23.28	23.15		
5	16QAM	12	0	21.99	22.25	22.15		
5	16QAM	12	7	22.01	22.26	22.15	22.5	2
5	16QAM	12	13	22.01	22.25	22.15	22.5	۷
5	16QAM	25	0	21.95	22.21	22.11		

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< Reduced Power Mode>

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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)
	Frequen	cy (MHz)		2510	2535	2560		
20	QPSK	1	0	19.19	19.30	19.20		
20	QPSK	1	49	19.16	19.25	19.08	19.5	0
20	QPSK	1	99	19.18	19.28	19.19]	
20	QPSK	50	0	18.19	18.28	18.11		
20	QPSK	50	24	18.15	18.24	18.08	18.5	1
20	QPSK	50	50	18.18	18.27	18.10	16.5	I
20	QPSK	100	0	18.15	18.24	18.08		
20	16QAM	1	0	18.06	18.17	18.07		
20	16QAM	1	49	18.10	18.21	18.07	18.5	1
20	16QAM	1	99	18.14	18.29	18.16]	
20	16QAM	50	0	17.12	17.19	17.08		
20	16QAM	50	24	17.14	17.23	17.07	17.5	2
20	16QAM	50 50		17.18	17.26	17.10	17.5	2
20	16QAM	100	0	17.12	17.22	17.07		
	Cha	nnel		20825	21100	21375	Tune-up limit	MPR
	Frequen	cy (MHz)		2507.5	2535	2562.5	(dBm)	(dB)
15			0	19.17	19.23	19.06		
15			37	19.17	19.28	19.11	19.5	0
15	QPSK	1	74	19.20	19.29	19.16		
15	5 QPSK 36		0	18.16	18.25	18.10		
15	QPSK	36	20	18.20	18.29	18.11	105	4
15	QPSK	36	39	18.21	18.30	18.11	18.5	1
15	QPSK	75	0	18.17	18.27	18.09]	
15	16QAM	1	0	18.09	18.19	18.05		
15	16QAM	1	37	18.12	18.24	18.10	18.5	1
15	16QAM	1	74	18.18	18.27	18.15		
15	16QAM	36	0	17.14	17.22	17.08		
15	16QAM	36	20	17.17	17.26	17.12	17.5	2
15	16QAM	36	39	17.19	17.28	17.12	17.5	2
15	16QAM	75	0	17.16	17.25	17.09		
	Cha	nnel		20800	21100	21400	Tune-up limit	MPR
	Frequen	cy (MHz)		2505	2535	2565	(dBm)	(dB)
10	QPSK	1	0	19.01	19.20	19.01		
10	QPSK	1	25	19.04	19.26	19.07	19.5	0
10	QPSK	1	49	19.05	19.28	19.06		
10	QPSK	25	0	18.02	18.21	18.00		
10	QPSK	25	12	18.01	18.23	18.01	18.5	1
10	QPSK	25	25	18.01	18.24	18.04	10.5	
10	QPSK	50	0	18.03	18.25	18.02		
10	10 16QAM 1		0	17.94	18.16	18.02		
10			25	18.01	18.22	18.07	18.5	1
10	16QAM	1	49	18.01	18.26	18.07		
10	16QAM	25	0	16.99	17.20	17.00		
10	16QAM	25	12	16.99	17.22	17.01	17.5	2
10	16QAM	25	25	17.00	17.21	17.05	17.5	2
10	16QAM	50	0	17.01	17.24	17.04		

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	Cha	nnel		20775	21100	21425	Tune-up limit	MPR
	Frequen	cy (MHz)		2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	0	19.00	19.22	19.03		
5	QPSK	1	12	19.05	19.27	19.07	19.5	0
5	QPSK	1	24	19.04	19.25	19.05		
5	QPSK	12	0	18.05	18.26	18.06		
5	QPSK	12	7	18.06	18.27	18.07	18.5	1
5	QPSK	12	13	18.06	18.27	18.08	16.5	'
5	QPSK	25	0	18.02	18.24	18.01		
5	16QAM	1	0	18.25	18.20	18.03		
5	16QAM	1	12	18.30	18.23	18.05	18.5	1
5	16QAM	1	24	18.28	18.22	18.05		
5	16QAM	12	0	17.04	17.23	17.06		
5	16QAM	12	7	17.05	17.25	17.07	17.5	2
5	16QAM	12	13	17.06	17.25	17.08	17.5	2
5	16QAM	25	0	16.99	17.21	17.01		

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<WLAN Conducted Power>

General Note:

1. 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).
- 3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is 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:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

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<2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412		16.39	17.00	
	802.11b	CH 6	2437	1Mbps	16.78	17.00	100.00
2.4GHz WLAN		CH 11	2462		16.27	17.00	
2.4GHZ WLAIN		CH 1 2412			14.36	15.00	
	802.11g	CH 6	2437	6Mbps	14.85	15.00	96.53
		CH 11	2462		14.75	15.00	
		CH 1	2412		11.49	11.50	
	802.11n-HT20	CH 6	2437	MCS0	11.43	11.50	97.02
		CH 11	2462		11.48	11.50	

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<5GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 36	5180		13.92	14.00	
	902 110	CH 40	5200	GMbpa	13.84	14.00	97.20
	802.11a	CH 44	5220	6Mbps	13.79	14.00	97.20
5.2GHz WLAN		CH 48	5240		13.72	14.00	
	802.11n-HT20	CH 36	5180		12.88	13.00	
		CH 40	5200	MCS0	12.82	13.00	96.30
	002.1111-1120	CH 44	5220	IVICSU	12.78	13.00	96.30
_		CH 48	5240		12.86	13.00	
	802.11n-HT40	CH 38	5190	MCS0	11.03	11.50	94.74
	802.11N-H140	CH 46	5230	IVICOU	12.77	13.00	34.74

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
		CH 52	5260		13.86	14.00		
	802.11a	CH 56	5280	6Mbps	13.85	14.00	97.20	
	002.11a	CH 60	5300	GIVIDPS	13.87	14.00	97.20	
5.3GHz WLAN		CH 64	5320		13.89	14.00		
	802.11n-HT20	CH 52	5260		12.96	13.00		
		CH 56	5280	MCS0	12.95	13.00	96.30	
	002.1111-11120	CH 60	5300	MOSO	12.94	13.00	90.50	
_		CH 64	5320		12.98	13.00		
	802.11n-HT40	CH 54	5270	MCS0	12.70	13.00	94.74	
	002.1111-11140	CH 62	5310	IVIOSO	9.84	10.00	34.74	

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	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 100	5500		13.77	14.00	
	802.11a	CH 116	5580	6Mbps	13.72	14.00	97.20
	002.11d	CH 132	5660	GIVIDPS	13.68	14.00	97.20
		CH 144	5720		13.92	14.00	
5.5GHz WLAN	802.11n-HT20	CH 100	5500		12.74	13.00	
		CH 116	5580	MCS0	12.61	13.00	96.30
		CH 132	5660	IVICSU	12.60	13.00	90.30
		CH 144	5720		12.86	13.00	
		CH 102	5510		11.91	12.00	
	902 115 UT40	CH 110	5550	MCS0	12.84	13.00	94.74
	802.11n-HT40	CH 134	5670	IVICSU	12.83	13.00	94.74
		CH 142	5710		12.89	13.00	

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	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 149	5745		13.76	14.00	
	802.11a	CH 157	5785	MCS0	13.74	14.00	97.20
5.8GHz WLAN		CH 165	5825		13.82	14.00	
		CH 149	5745		12.84	13.00	
	802.11n-HT20	CH 157	5785	MCS0	12.82	13.00	96.30
		CH 165	5825		12.71	13.00	
	802.11n-HT40	CH 151	5755	MCS0	12.97	13.00	94.74
	002.1111-1140	CH 159	5795	IVICSU	12.96	13.00	94.74

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13. Bluetooth Exclusions Applied

	Mode Band	Average power(dBm)					
	IVIOGE BATIG	BR/EDR	LE				
ĺ	2.4GHz Bluetooth	7.8	0.5				

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Note:

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

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

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

Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
7.8	15	2.48	0.63

Note:

Per KDB 447498 D01v06, when the minimum test separation distance is 15 mm which is applied to determine SAR test exclusion. The test exclusion threshold is 0.63 which is <= 3, SAR testing is not required.

14. RF Exposure Conditions

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

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

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 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
- 2. The detail antenna location please refers to Appendix D.

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
 - · ≤ 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 only when the measured SAR is ≥0.8W/kg.
- 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.
- 6. Per KDB648474 D04v01r03, for 5.3 / 5.5GHz WLAN product specific SAR is necessary, due to an overall diagonal dimension is > 16cm.
- 7. When hotspot mode is enabled, power reduction will be activated to limit the maximum power of LTE B7.
- 8. In this report, the 10g SAR results which is submitted voluntarily.

GSM Note:

- 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 (2Tx slots) for GSM850/GSM1900 is considered as the primary mode.
- 2. 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.

UMTS 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".
- 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 / 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 / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / 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.
- 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.
- For LTE B5 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.

WLAN Note:

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- 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. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
- 3. 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.
- 4. 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.
- 5. 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	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)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	GSM850	GPRS (2 Tx slots)	Right Cheek	0mm	128	824.2	30.24	31.00	1.191	-0.03	0.139	0.166	0.109	0.130
	GSM850	GPRS (2 Tx slots)	Right Tilted	0mm	128	824.2	30.24	31.00	1.191	-0.02	0.079	0.094	0.063	0.075
01	GSM850	GPRS (2 Tx slots)	Left Cheek	0mm	128	824.2	30.24	31.00	1.191	0.06	0.152	0.181	0.119	0.142
	GSM850	GPRS (2 Tx slots)	Left Tilted	0mm	128	824.2	30.24	31.00	1.191	-0.09	0.078	0.093	0.062	0.074
	GSM1900	GPRS (2 Tx slots)	Right Cheek	0mm	810	1909.8	26.65	28.00	1.365	0.16	0.061	0.083	0.037	0.050
	GSM1900	GPRS (2 Tx slots)	Right Tilted	0mm	810	1909.8	26.65	28.00	1.365	-0.19	0.038	0.052	0.020	0.027
02	GSM1900	GPRS (2 Tx slots)	Left Cheek	0mm	810	1909.8	26.65	28.00	1.365	-0.07	0.069	0.094	0.041	0.056
	GSM1900	GPRS (2 Tx slots)	Left Tilted	0mm	810	1909.8	26.65	28.00	1.365	0.16	0.021	0.029	0.012	0.016

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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)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	24.00	24.00	1.000	0.08	0.191	0.191	0.117	0.117
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	24.00	24.00	1.000	-0.08	0.113	0.113	0.067	0.067
03	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	9538	1907.6	24.00	24.00	1.000	-0.14	0.229	0.229	0.138	0.138
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	9538	1907.6	24.00	24.00	1.000	0.01	0.073	0.073	0.044	0.044
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	4182	836.4	24.47	24.50	1.007	0	0.302	0.304	0.237	0.239
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	4182	836.4	24.47	24.50	1.007	0.03	0.171	0.172	0.136	0.137
04	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	4182	836.4	24.47	24.50	1.007	0.07	0.336	0.338	0.262	0.264
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	4182	836.4	24.47	24.50	1.007	0.09	0.171	0.172	0.136	0.137

<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)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	18900	1880	23.75	24.00	1.059	0.03	0.210	0.222	0.129	0.137
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	18900	1880	22.79	23.00	1.050	0.07	0.166	0.174	0.102	0.107
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	18900	1880	23.75	24.00	1.059	0.11	0.117	0.124	0.071	0.075
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	18900	1880	22.79	23.00	1.050	0.01	0.095	0.100	0.057	0.060
05	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	18900	1880	23.75	24.00	1.059	0.1	0.215	0.228	0.133	0.141
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	18900	1880	22.79	23.00	1.050	0.07	0.170	0.178	0.105	0.110
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	18900	1880	23.75	24.00	1.059	-0.06	0.073	0.077	0.043	0.046
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	18900	1880	22.79	23.00	1.050	0.1	0.055	0.058	0.033	0.035
	LTE Band 5	10M	QPSK	1	0	Right Cheek	0mm	20525	836.5	24.22	24.50	1.067	-0.03	0.286	0.305	0.224	0.239
	LTE Band 5	10M	QPSK	25	0	Right Cheek	0mm	20525	836.5	23.13	23.50	1.089	-0.17	0.241	0.262	0.190	0.207
	LTE Band 5	10M	QPSK	1	0	Right Tilted	0mm	20525	836.5	24.22	24.50	1.067	-0.02	0.149	0.159	0.119	0.127
	LTE Band 5	10M	QPSK	25	0	Right Tilted	0mm	20525	836.5	23.13	23.50	1.089	0.12	0.122	0.133	0.097	0.106
06	LTE Band 5	10M	QPSK	1	0	Left Cheek	0mm	20525	836.5	24.22	24.50	1.067	-0.03	0.307	0.327	0.237	0.253
	LTE Band 5	10M	QPSK	25	0	Left Cheek	0mm	20525	836.5	23.13	23.50	1.089	0.05	0.252	0.274	0.195	0.212
	LTE Band 5	10M	QPSK	1	0	Left Tilted	0mm	20525	836.5	24.22	24.50	1.067	-0.17	0.130	0.139	0.103	0.110
	LTE Band 5	10M	QPSK	25	0	Left Tilted	0mm	20525	836.5	23.13	23.50	1.089	-0.07	0.098	0.106	0.077	0.084
07	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	24.20	24.50	1.072	0.03	0.402	0.431	0.221	0.237
	LTE Band 7	20M	QPSK	50	50	Right Cheek	0mm	21100	2535	23.28	23.50	1.052	0.07	0.363	0.382	0.200	0.210
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	21100	2535	24.20	24.50	1.072	-0.17	0.141	0.151	0.080	0.086
	LTE Band 7	20M	QPSK	50	50	Right Tilted	0mm	21100	2535	23.28	23.50	1.052	0.17	0.118	0.124	0.067	0.070
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	24.20	24.50	1.072	-0.12	0.203	0.218	0.117	0.125
	LTE Band 7	20M	QPSK	50	50	Left Cheek	0mm	21100	2535	23.28	23.50	1.052	0.12	0.177	0.186	0.101	0.106
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	21100	2535	24.20	24.50	1.072	0.01	0.178	0.191	0.097	0.104
	LTE Band 7	20M	QPSK	50	50	Left Tilted	0mm	21100	2535	23.28	23.50	1.052	0.19	0.140	0.147	0.078	0.082

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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	Cyclo	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	6	2437	16.78	17.00	1.052	100	1.000	0.09	0.369	0.388	0.214	0.225
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	6	2437	16.78	17.00	1.052	100	1.000	-0.14	0.363	0.382	0.192	0.202
08	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	6	2437	16.78	17.00	1.052	100	1.000	0.1	1.070	1.126	0.529	0.556
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	1	2412	16.39	17.00	1.151	100	1.000	0.08	0.887	1.021	0.441	0.508
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	11	2462	16.27	17.00	1.183	100	1.000	0.08	0.842	0.996	0.422	0.499
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	6	2437	16.78	17.00	1.052	100	1.000	0.12	0.639	0.672	0.302	0.318
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	64	5320	13.89	14.00	1.026	97.2	1.029	0.14	0.236	0.249	0.065	0.069
	WLAN5GHz	802.11a 6Mbps	Right Tilted	0mm	64	5320	13.89	14.00	1.026	97.2	1.029	0.14	0.181	0.191	0.052	0.055
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	64	5320	13.89	14.00	1.026	97.2	1.029	0.12	0.488	0.515	0.138	0.146
09	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	52	5260	13.86	14.00	1.033	97.2	1.029	0.02	0.532	0.565	0.145	0.154
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	64	5320	13.89	14.00	1.026	97.2	1.029	0.18	0.358	0.378	0.108	0.114
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	144	5720	13.92	14.00	1.019	97.2	1.029	0	0.382	0.400	0.101	0.106
	WLAN5GHz	802.11a 6Mbps	Right Tilted	0mm	144	5720	13.92	14.00	1.019	97.2	1.029	-0.13	0.264	0.277	0.073	0.077
10	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	144	5720	13.92	14.00	1.019	97.2	1.029	0.18	0.615	0.645	0.163	0.171
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	100	5500	13.77	14.00	1.054	97.2	1.029	0.19	0.487	0.528	0.130	0.141
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	116	5580	13.72	14.00	1.067	97.2	1.029	0.12	0.529	0.581	0.144	0.158
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	132	5660	13.68	14.00	1.076	97.2	1.029	0.17	0.539	0.597	0.146	0.162
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	144	5720	13.92	14.00	1.019	97.2	1.029	0.14	0.544	0.570	0.158	0.166
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	165	5825	13.82	14.00	1.042	97.2	1.029	-0.1	0.416	0.446	0.108	0.116
	WLAN5GHz	802.11a 6Mbps	Right Tilted	0mm	165	5825	13.82	14.00	1.042	97.2	1.029	-0.05	0.324	0.348	0.089	0.095
11	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	165	5825	13.82	14.00	1.042	97.2	1.029	0.15	0.802	0.860	0.215	0.231
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	149	5745	13.76	14.00	1.057	97.2	1.029	0.19	0.639	0.695	0.169	0.184
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	157	5785	13.74	14.00	1.062	97.2	1.029	0.19	0.628	0.686	0.163	0.178
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	165	5825	13.82	14.00	1.042	97.2	1.029	-0.02	0.575	0.617	0.161	0.173

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15.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Dower	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured 10g SAR (W/kg)	
	GSM850	GPRS (2 Tx slots)	Front	10mm	OFF	128	824.2	30.24	31.00	1.191	-0.03	0.212	0.253	0.166	0.198
12	GSM850	GPRS (2 Tx slots)	Back	10mm	OFF	128	824.2	30.24	31.00	1.191	-0.07	0.275	0.328	0.216	0.257
	GSM850	GPRS (2 Tx slots)	Left Side	10mm	OFF	128	824.2	30.24	31.00	1.191	-0.1	0.239	0.285	0.168	0.200
	GSM850	GPRS (2 Tx slots)	Right Side	10mm	OFF	128	824.2	30.24	31.00	1.191	-0.09	0.172	0.205	0.120	0.143
	GSM850	GPRS (2 Tx slots)	Bottom Side	10mm	OFF	128	824.2	30.24	31.00	1.191	0.06	0.081	0.096	0.046	0.055
	GSM1900	GPRS (2 Tx slots)	Front	10mm	OFF	810	1909.8	26.65	28.00	1.365	0.12	0.140	0.191	0.076	0.104
13	GSM1900	GPRS (2 Tx slots)	Back	10mm	OFF	810	1909.8	26.65	28.00	1.365	-0.02	0.216	0.295	0.106	0.145
	GSM1900	GPRS (2 Tx slots)	Left Side	10mm	OFF	810	1909.8	26.65	28.00	1.365	0.04	0.054	0.074	0.032	0.044
	GSM1900	GPRS (2 Tx slots)	Right Side	10mm	OFF	810	1909.8	26.65	28.00	1.365	-0.06	0.065	0.089	0.039	0.053
	GSM1900	GPRS (2 Tx slots)	Bottom Side	10mm	OFF	810	1909.8	26.65	28.00	1.365	0.07	0.159	0.217	0.085	0.116

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	10mm	OFF	9538	1907.6	24.00	24.00	1.000	-0.07	0.457	0.457	0.251	0.251
14	WCDMA II	RMC 12.2Kbps	Back	10mm	OFF	9538	1907.6	24.00	24.00	1.000	0.07	0.667	0.667	0.327	0.327
	WCDMA II	RMC 12.2Kbps	Left Side	10mm	OFF	9538	1907.6	24.00	24.00	1.000	0.04	0.177	0.177	0.107	0.107
	WCDMA II	RMC 12.2Kbps	Right Side	10mm	OFF	9538	1907.6	24.00	24.00	1.000	0.03	0.215	0.215	0.130	0.130
	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	OFF	9538	1907.6	24.00	24.00	1.000	-0.02	0.488	0.488	0.262	0.262
	WCDMA V	RMC 12.2Kbps	Front	10mm	OFF	4182	836.4	24.47	24.50	1.007	0.01	0.438	0.441	0.339	0.341
15	WCDMA V	RMC 12.2Kbps	Back	10mm	OFF	4182	836.4	24.47	24.50	1.007	-0.12	0.529	0.533	0.412	0.415
	WCDMA V	RMC 12.2Kbps	Left Side	10mm	OFF	4182	836.4	24.47	24.50	1.007	0	0.452	0.455	0.317	0.319
	WCDMA V	RMC 12.2Kbps	Right Side	10mm	OFF	4182	836.4	24.47	24.50	1.007	-0.04	0.289	0.291	0.202	0.203
	WCDMA V	RMC 12.2Kbps	Bottom Side	10mm	OFF	4182	836.4	24.47	24.50	1.007	0.04	0.163	0.164	0.091	0.092

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<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Reduction	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)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	10mm	OFF	18900	1880	23.75	24.00	1.059	0.01	0.606	0.642	0.329	0.348
	LTE Band 2	20M	QPSK	50	0	Front	10mm	OFF	18900	1880	22.79	23.00	1.050	-0.01	0.478	0.502	0.259	0.272
16	LTE Band 2	20M	QPSK	1	0	Back	10mm	OFF	18900	1880	23.75	24.00	1.059	-0.03	0.886	0.938	0.426	0.451
	LTE Band 2	20M	QPSK	1	0	Back	10mm	OFF	18700	1860	23.66	24.00	1.081	-0.1	0.775	0.838	0.379	0.410
	LTE Band 2	20M	QPSK	1	0	Back	10mm	OFF	19100	1900	23.74	24.00	1.062	0.06	0.684	0.726	0.329	0.349
	LTE Band 2	20M	QPSK	50	0	Back	10mm	OFF	18900	1880	22.79	23.00	1.050	0.04	0.709	0.744	0.340	0.357
	LTE Band 2	20M	QPSK	100	0	Back	10mm	OFF	18900	1880	22.73	23.00	1.064	0.04	0.693	0.737	0.333	0.354
	LTE Band 2	20M	QPSK	1	0	Left Side	10mm	OFF	18900	1880	23.75	24.00	1.059	-0.03	0.204	0.216	0.124	0.131
	LTE Band 2	20M	QPSK	50	0	Left Side	10mm	OFF	18900	1880	22.79	23.00	1.050	0	0.163	0.171	0.099	0.104
	LTE Band 2	20M	QPSK	1	0	Right Side	10mm	OFF	18900	1880	23.75	24.00	1.059	-0.02	0.241	0.255	0.145	0.154
	LTE Band 2	20M	QPSK	50	0	Right Side	10mm	OFF	18900	1880	22.79	23.00	1.050	-0.03	0.195	0.205	0.117	0.123
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10mm	OFF	18900	1880	23.75	24.00	1.059	0	0.618	0.655	0.331	0.351
	LTE Band 2	20M	QPSK	50	0	Bottom Side	10mm	OFF	18900	1880	22.79	23.00	1.050	-0.02	0.489	0.513	0.261	0.274
	LTE Band 5	10M	QPSK	1	0	Front	10mm	OFF	20525	836.5	24.22	24.50	1.067	-0.13	0.411	0.438	0.320	0.341
	LTE Band 5	10M	QPSK	25	0	Front	10mm	OFF	20525	836.5	23.13	23.50	1.089	-0.03	0.394	0.429	0.308	0.335
17	LTE Band 5	10M	QPSK	1	0	Back	10mm	OFF	20525	836.5	24.22	24.50	1.067	-0.04	0.507	0.541	0.395	0.421
	LTE Band 5	10M	QPSK	25	0	Back	10mm	OFF	20525	836.5	23.13	23.50	1.089	-0.18	0.409	0.445	0.314	0.342
	LTE Band 5	10M	QPSK	1	0	Left Side	10mm	OFF	20525	836.5	24.22	24.50	1.067	-0.1	0.448	0.478	0.312	0.333
	LTE Band 5	10M	QPSK	25	0	Left Side	10mm	OFF	20525	836.5	23.13	23.50	1.089	0.04	0.400	0.436	0.279	0.304
	LTE Band 5	10M	QPSK	1	0	Right Side	10mm	OFF	20525	836.5	24.22	24.50	1.067	-0.08	0.304	0.324	0.211	0.225
	LTE Band 5	10M	QPSK	25	0	Right Side	10mm	OFF	20525	836.5	23.13	23.50	1.089	-0.02	0.278	0.303	0.193	0.210
	LTE Band 5	10M	QPSK	1	0	Bottom Side	10mm	OFF	20525	836.5	24.22	24.50	1.067	-0.13	0.162	0.173	0.093	0.099
	LTE Band 5	10M	QPSK	25	0	Bottom Side	10mm	OFF	20525	836.5	23.13	23.50	1.089	-0.18	0.137	0.149	0.078	0.085
	LTE Band 7	20M	QPSK	1	0	Front	10mm	ON	21100	2535	19.30	19.50	1.047	0	0.274	0.287	0.140	0.147
	LTE Band 7	20M	QPSK	50	0	Front	10mm	ON	21100	2535	18.28	18.50	1.052	0.03	0.217	0.228	0.109	0.115
	LTE Band 7	20M	QPSK	1	0	Back	10mm	ON	21100	2535	19.30	19.50	1.047	0.09	0.395	0.414	0.189	0.198
	LTE Band 7	20M	QPSK	50	0	Back	10mm	ON	21100	2535	18.28	18.50	1.052	0.04	0.312	0.328	0.149	0.157
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	ON	21100	2535	19.30	19.50	1.047	-0.1	0.061	0.064	0.033	0.035
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	ON	21100	2535	18.28	18.50	1.052	-0.01	0.047	0.049	0.025	0.026
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	ON	21100	2535	19.30	19.50	1.047	0.07	0.171	0.179	0.090	0.094
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	ON	21100	2535	18.28	18.50	1.052	-0.17	0.134	0.141	0.070	0.074
18	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	ON	21100	2535	19.30	19.50	1.047	-0.12	0.472	0.494	0.224	0.235
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	ON	21100	2535	18.28	18.50	1.052	-0.13	0.342	0.360	0.161	0.169

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Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)			Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	6	2437	16.78	17.00	1.052	100	1.000	0.14	0.153	0.161	0.085	0.089
19	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	6	2437	16.78	17.00	1.052	100	1.000	-0.13	0.238	0.250	0.121	0.127
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	1	2412	16.39	17.00	1.151	100	1.000	-0.1	0.204	0.235	0.103	0.119
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	11	2462	16.27	17.00	1.183	100	1.000	-0.03	0.209	0.247	0.106	0.125
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	6	2437	16.78	17.00	1.052	100	1.000	0.04	0.163	0.171	0.084	0.088
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	6	2437	16.78	17.00	1.052	100	1.000	-0.18	0.143	0.150	0.081	0.085
	WLAN5GHz	802.11a 6Mbps	Front	10mm	36	5180	13.92	14.00	1.019	97.2	1.029	-0.19	0.087	0.091	0.031	0.032
	WLAN5GHz	802.11a 6Mbps	Back	10mm	36	5180	13.92	14.00	1.019	97.2	1.029	0.16	0.259	0.271	0.083	0.087
	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	36	5180	13.92	14.00	1.019	97.2	1.029	0.14	0.322	0.337	0.108	0.113
20	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	44	5220	13.79	14.00	1.050	97.2	1.029	0.17	0.324	0.350	0.110	0.119
	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	36	5180	13.92	14.00	1.019	97.2	1.029	0.18	0.123	0.129	0.048	0.050
	WLAN5GHz	802.11a 6Mbps	Front	10mm	165	5825	13.82	14.00	1.042	97.2	1.029	0.044	0.154	0.165	0.053	0.057
	WLAN5GHz	802.11a 6Mbps	Back	10mm	165	5825	13.82	14.00	1.042	97.2	1.029	-0.071	0.249	0.267	0.075	0.080
	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	165	5825	13.82	14.00	1.042	97.2	1.029	0.116	0.441	0.473	0.137	0.147
21	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	149	5745	13.76	14.00	1.057	97.2	1.029	0.044	0.436	0.474	0.139	0.151
	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	157	5785	13.74	14.00	1.062	97.2	1.029	-0.008	0.397	0.434	0.127	0.139
	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	165	5825	13.82	14.00	1.042	97.2	1.029	-0.048	0.168	0.180	0.066	0.071

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15.3 Product Specific SAR

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11a 6Mbps	Front	0mm	64	5320	13.89	14.00	1.026	97.2	1.029	0.09	0.182	0.192
	WLAN5GHz	802.11a 6Mbps	Back	0mm	64	5320	13.89	14.00	1.026	97.2	1.029	0.18	0.522	0.551
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	64	5320	13.89	14.00	1.026	97.2	1.029	-0.1	0.340	0.359
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	64	5320	13.89	14.00	1.026	97.2	1.029	-0.11	0.308	0.325
22	WLAN5GHz	802.11a 6Mbps	Back	0mm	52	5260	13.86	14.00	1.033	97.2	1.029	0.16	0.577	0.613
	WLAN5GHz	802.11a 6Mbps	Front	0mm	144	5720	13.92	14.00	1.019	97.2	1.029	-0.11	0.229	0.240
23	WLAN5GHz	802.11a 6Mbps	Back	0mm	144	5720	13.92	14.00	1.019	97.2	1.029	0.18	0.643	0.674
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	144	5720	13.92	14.00	1.019	97.2	1.029	-0.1	0.473	0.496
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	144	5720	13.92	14.00	1.019	97.2	1.029	-0.17	0.189	0.198
	WLAN5GHz	802.11a 6Mbps	Back	0mm	100	5500	13.77	14.00	1.054	97.2	1.029	0.11	0.441	0.478
	WLAN5GHz	802.11a 6Mbps	Back	0mm	116	5580	13.72	14.00	1.067	97.2	1.029	0.07	0.544	0.597
	WLAN5GHz	802.11a 6Mbps	Back	0mm	132	5660	13.68	14.00	1.076	97.2	1.029	0.11	0.594	0.658

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15.4 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)	Measured 10g SAR (W/kg)	
	GSM850	GPRS (2 Tx slots)	Front	15mm	128	824.2	30.24	31.00	1.191	0.01	0.212	0.253	0.165	0.197
24	GSM850	GPRS (2 Tx slots)	Back	15mm	128	824.2	30.24	31.00	1.191	-0.02	0.247	0.294	0.191	0.228
	GSM1900	GPRS (2 Tx slots)	Front	15mm	810	1909.8	26.65	28.00	1.365	0.02	0.083	0.113	0.054	0.074
25	GSM1900	GPRS (2 Tx slots)	Back	15mm	810	1909.8	26.65	28.00	1.365	-0.03	0.100	0.136	0.054	0.074

<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)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	15mm	9538	1907.6	24.00	24.00	1.000	-0.12	0.248	0.248	0.162	0.162
26	WCDMA II	RMC 12.2Kbps	Back	15mm	9538	1907.6	24.00	24.00	1.000	-0.08	0.306	0.306	0.166	0.166
	WCDMA V	RMC 12.2Kbps	Front	15mm	4182	836.4	24.47	24.50	1.007	-0.01	0.424	0.427	0.327	0.329
27	WCDMA V	RMC 12.2Kbps	Back	15mm	4182	836.4	24.47	24.50	1.007	0.03	0.487	0.490	0.375	0.378

<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)	Measured 10g SAR (W/kg)	
	LTE Band 2	20M	QPSK	1	0	Front	15mm	18900	1880	23.75	24.00	1.059	0.02	0.282	0.299	0.172	0.182
	LTE Band 2	20M	QPSK	50	0	Front	15mm	18900	1880	22.79	23.00	1.050	-0.01	0.227	0.238	0.149	0.156
28	LTE Band 2	20M	QPSK	1	0	Back	15mm	18900	1880	23.75	24.00	1.059	0.09	0.312	0.330	0.173	0.183
	LTE Band 2	20M	QPSK	50	0	Back	15mm	18900	1880	22.79	23.00	1.050	0.07	0.248	0.260	0.136	0.143
	LTE Band 5	10M	QPSK	1	0	Front	15mm	20525	836.5	24.22	24.50	1.067	0	0.402	0.429	0.312	0.333
	LTE Band 5	10M	QPSK	25	0	Front	15mm	20525	836.5	23.13	23.50	1.089	-0.14	0.315	0.343	0.245	0.267
29	LTE Band 5	10M	QPSK	1	0	Back	15mm	20525	836.5	24.22	24.50	1.067	0.03	0.459	0.490	0.354	0.378
	LTE Band 5	10M	QPSK	25	0	Back	15mm	20525	836.5	23.13	23.50	1.089	0.01	0.360	0.392	0.278	0.303
	LTE Band 7	20M	QPSK	1	0	Front	15mm	21100	2535	24.20	24.50	1.072	-0.18	0.277	0.297	0.148	0.159
	LTE Band 7	20M	QPSK	50	50	Front	15mm	21100	2535	23.28	23.50	1.052	0.02	0.284	0.299	0.151	0.159
30	LTE Band 7	20M	QPSK	1	0	Back	15mm	21100	2535	24.20	24.50	1.072	-0.13	0.323	0.346	0.187	0.200
	LTE Band 7	20M	QPSK	50	50	Back	15mm	21100	2535	23.28	23.50	1.052	-0.03	0.324	0.341	0.186	0.196

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Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	6	2437	16.78	17.00	1.052	100	1.000	-0.03	0.087	0.092	0.048	0.050
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	6	2437	16.78	17.00	1.052	100	1.000	0.13	0.093	0.098	0.050	0.053
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	1	2412	16.39	17.00	1.151	100	1.000	0.07	0.081	0.093	0.037	0.043
31	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	11	2462	16.27	17.00	1.183	100	1.000	0.06	0.091	0.108	0.050	0.059
	WLAN5GHz	802.11a 6Mbps	Front	15mm	64	5320	13.89	14.00	1.026	97.2	1.029	-0.1	0.056	0.059	0.020	0.021
	WLAN5GHz	802.11a 6Mbps	Back	15mm	64	5320	13.89	14.00	1.026	97.2	1.029	0.18	0.103	0.109	0.036	0.038
32	WLAN5GHz	802.11a 6Mbps	Back	15mm	52	5260	13.86	14.00	1.033	97.2	1.029	0.14	0.221	0.235	0.078	0.083
	WLAN5GHz	802.11a 6Mbps	Front	15mm	144	5720	13.92	14.00	1.019	97.2	1.029	-0.17	0.118	0.124	0.042	0.044
33	WLAN5GHz	802.11a 6Mbps	Back	15mm	144	5720	13.92	14.00	1.019	97.2	1.029	0.14	0.132	0.138	0.042	0.044
	WLAN5GHz	802.11a 6Mbps	Back	15mm	100	5500	13.77	14.00	1.054	97.2	1.029	0.12	0.076	0.082	0.025	0.027
	WLAN5GHz	802.11a 6Mbps	Back	15mm	116	5580	13.72	14.00	1.067	97.2	1.029	0.16	0.089	0.098	0.025	0.027
	WLAN5GHz	802.11a 6Mbps	Back	15mm	132	5660	13.68	14.00	1.076	97.2	1.029	0.16	0.124	0.137	0.038	0.042
	WLAN5GHz	802.11a 6Mbps	Front	15mm	165	5825	13.82	14.00	1.042	97.2	1.029	-0.13	0.103	0.110	0.037	0.040
	WLAN5GHz	802.11a 6Mbps	Back	15mm	165	5825	13.82	14.00	1.042	97.2	1.029	0.14	0.134	0.144	0.044	0.047
34	WLAN5GHz	802.11a 6Mbps	Back	15mm	149	5745	13.76	14.00	1.057	97.2	1.029	0.13	0.136	0.148	0.043	0.047
	WLAN5GHz	802.11a 6Mbps	Back	15mm	157	5785	13.74	14.00	1.062	97.2	1.029	-0.13	0.104	0.114	0.033	0.036

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15.5 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	6	2437	16.78	17.00	1.052	100	1.000	0.1	1.070		1.126
2nd	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	6	2437	16.78	17.00	1.052	100	1.000	0.1	0.986	1.09	1.037
1st	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	165	5825	13.82	14.00	1.042	97.2	1.029	0.15	0.802		0.860
2nd	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	165	5825	13.82	14.00	1.042	97.2	1.029	0.15	0.801	1.00	0.859

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N	lo.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Dower		Tune-up Scaling Factor		Measured 1g SAR (W/kg)		Reported 1g SAR (W/kg)
1	st	LTE Band 2	20M	QPSK	1	0	Back	10mm	OFF	18900	1880	23.75	24.00	1.059	-0.03	0.886		0.938
2	nd	LTE Band 2	20M	QPSK	1	0	Back	10mm	OFF	18900	1880	23.75	24.00	1.059	-0.04	0.788	1.12	0.835

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.

16. Simultaneous Transmission Analysis

			Portable	Handset	
NO.	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product Specific
1.	GSM Voice + WLAN2.4GHz	Yes	Yes		Yes
2.	GPRS/EDGE + WLAN2.4GHz	Yes	Yes	Yes	Yes
3.	WCDMA + WLAN2.4GHz	Yes	Yes	Yes	Yes
4.	LTE + WLAN2.4GHz	Yes	Yes	Yes	Yes
5.	GSM Voice + Bluetooth		Yes		Yes
6.	GPRS/EDGE + Bluetooth		Yes		Yes
7.	WCDMA+ Bluetooth		Yes		Yes
8.	LTE + Bluetooth		Yes		Yes
9.	GSM Voice + WLAN5GHz	Yes	Yes		Yes
10.	GPRS/EDGE + WLAN5GHz	Yes	Yes		Yes
11.	WCDMA + WLAN5GHz	Yes	Yes		Yes
12.	LTE + WLAN5GHz	Yes	Yes		Yes

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General Note:

- 1. In this report, the 10g SAR transmission simultaneous analysis results which is submitted voluntarily.
- 2. This device 2.4GHz / 5.2GHz / 5.8 GHz WLAN support Hotspot operation.
- 3. The worst case WLAN reported SAR for each configuration was used for SAR summation. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
- 4. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
- 5. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.
- 6. The Scaled SAR summation is calculated based on the same configuration and test position.
- 7. 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 \leq 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
- For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v06 based on the formula below.
 - i) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)/x}$] W/kg for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
 - ii) When the minimum separation distance is < 5mm, the distance is used 5mm to determine SAR test exclusion.
 - iii) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.

Bluetooth	Exposure Position	Body worn		
Max Power	Test separation	15 mm		
7.8dBm	Estimated SAR (W/kg)	0.084W/kg		

16.1 Head Exposure Conditions

			1	2	3	4.0	4.0
WWA	N Band	Exposure	WWAN	2.4GHz WLAN	5GHz WLAN	1+2 Summed	1+3 Summed
		Position	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
		Right Cheek	0.166	0.388	0.446	0.55	0.61
	GSM850	Right Tilted	0.094	0.382	0.348	0.48	0.44
	GSIVIOSU	Left Cheek	0.181	1.126	0.860	1.31	1.04
GSM		Left Tilted	0.093	0.672	0.617	0.77	0.71
GSIVI		Right Cheek	0.083	0.388	0.446	0.47	0.53
	GSM1900	Right Tilted	0.052	0.382	0.348	0.43	0.40
	G5W1900	Left Cheek	0.094	1.126	0.860	1.22	0.95
		Left Tilted	0.029	0.672	0.617	0.70 0.65 0.58 0.64 0.50 0.46 1.36 1.09	0.65
		Right Cheek	0.191	0.388	0.446	0.58	0.64
	WCDMA II	Right Tilted	0.113	0.382	0.348	0.50	0.46
	WCDIVIA II	Left Cheek	0.229	1.126	0.860	1.36	1.09
WCDMA		Left Tilted	0.073	0.672	0.617	0.75	0.69
WCDIVIA	Right Cheek 0.304	0.388	0.446	0.69	0.75		
	MODMAN	Right Tilted 0.172 0.382 0.348 0.	0.55	0.52			
	WCDMA V	Left Cheek	0.338	1.126	0.860	1.46	0.44 1.04 0.71 0.53 0.40 0.95 0.65 0.64 0.46 1.09 0.69 0.75
		Left Tilted	0.172	0.672	0.617	0.84	0.79
		Right Cheek	0.222	0.388	0.446	0.61	0.67
	LTE Daniel O	Right Tilted	0.124	0.382	0.348	0.51	0.47
	LTE Band 2	Left Cheek	0.228	1.126	0.860	1.35	1.09
		Left Tilted	0.077	0.672	0.617	0.75	0.69
		Right Cheek	0.305	0.388	0.446	0.69	0.75
LTE	LTE Daniel E	Right Tilted	0.159	0.382	0.348	0.54	0.51
LTE	LTE Band 5	Left Cheek	0.327	1.126	0.860	1.45	1.19
		Left Tilted	0.139	0.672	0.617	0.81	0.76
		Right Cheek	0.431	0.388	0.446	0.82	0.88
	LTE David 7	Right Tilted	0.151	0.382	0.348	0.53	0.50
	LTE Band 7	Left Cheek	0.218	1.126	0.860	1.34	1.08
		Left Tilted	0.191	0.672	0.617	0.86	0.81

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			1	2	3	1+2	1+3
WWA	N Band	Exposure	WWAN	2.4GHz WLAN	5GHz WLAN	Summed	Summed
*****	TV Balla	Position	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
		Right Cheek	0.130	0.225	0.116	0.36	0.25
	CCMOEO	Right Tilted	0.075	0.202	0.095	0.28	0.17
	GSM850	Left Cheek	0.142	0.556	0.231	0.70	0.37
GSM		Left Tilted	0.074	0.318	0.173	0.39	0.25
GSIVI		Right Cheek	0.050	0.225	0.116	0.28	0.17
	00044000	Right Tilted	0.027	0.202	0.095	0.23	0.12
	GSM1900	Left Cheek	0.056	0.556	0.231	0.61	0.29
		Left Tilted	0.016	0.318	0.173	0.33	0.19
		Right Cheek	0.117	0.225	0.116	0.34	0.23
	MODMANII	Right Tilted	0.067	0.202	0.095	0.27	0.16
	WCDMA II	Left Cheek	0.138	0.556	0.231	0.69	0.37
\\(\(\)\(\)		Left Tilted	0.044	0.318	0.173	0.36	0.22
WCDMA		Right Cheek	0.239	0.225	0.116	0.46	0.36
	WODAA W	Right Tilted	0.137	0.202	0.095	16 0.46 0.36 95 0.34 0.23	0.23
	WCDMA V	Left Cheek	0.264	0.556	0.231	0.82	10g SAR (W/kg) 0.25 0.17 0.37 0.25 0.17 0.12 0.29 0.19 0.23 0.16 0.37 0.22 0.36 0.23
	WCDMA V Right Tilted 0.137 0.202 0.0 Left Cheek 0.264 0.556 0.2 Left Tilted 0.137 0.318 0.1	0.173	0.46	0.31			
		Right Cheek	0.137	0.225	0.116	0.36	0.25
		Right Tilted	0.075	0.202	0.095	0.28	0.17
	LTE Band 2	Left Cheek	0.141	0.556	0.231	0.70	0.37
		Left Tilted	0.046	0.318	0.173	0.36	0.22
		Right Cheek	0.239	0.225	0.116	0.46	0.36
		Right Tilted	0.127	0.202	0.095	0.33	0.22
LTE	LTE Band 5	Left Cheek	0.253	0.556	0.231	0.81	0.48
		Left Tilted	0.110	0.318	0.173	0.43	0.28
		Right Cheek	0.237	0.225	0.116	0.46	0.35
		Right Tilted	0.086	0.202	0.095	0.29	0.18
	LTE Band 7	Left Cheek	0.125	0.556	0.231	0.68	0.36
		Left Tilted	0.104	0.318	0.173	0.42	0.28

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16.2 Hotspot Exposure Conditions

			1	2	3	1+2	1.2
WWAI	N Band	Exposure	WWAN	2.4GHz WLAN	5GHz WLAN	Summed	Summed
		Position	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		Front	0.253	0.161	0.165	0.41	0.42
		Back	0.328	0.250	0.271	0.58	0.60
	GSM850	Left side	0.285			0.29	0.29
	GSIVIOSU	Right side	0.205	0.171	0.474	0.38	0.68
		Top side		0.150	0.180	0.15	0.18
GSM		Bottom side	0.096			0.10	0.10
GSIVI		Front	0.191	0.161	0.165	0.35	0.36
		Back	0.295	0.250	0.271	0.55	0.57
	GSM1900	Left side	0.074			0.07	0.07
	G5W1900	Right side	0.089	0.171	0.474	0.26	0.56
		Top side		0.150	0.180	0.15	0.18
		Bottom side	0.217			0.22	0.22
		Front	0.457	0.161	0.165	0.62	0.62
		Back	0.667	0.250	0.271	0.92	0.94
	WODMALI	Left side	0.177			0.18	0.18
	WCDMA II	Right side	0.215	0.171	0.474	0.39	0.69
		Top side		0.150	0.180	0.15	0.18
MODAAA		Bottom side	0.488			0.49	0.49
WCDMA		Front	0.441	0.161	0.165	0.60	0.61
		Back	0.533	0.250	0.271	0.78	0.80
	MODMAN	Left side	0.455			0.46	0.46
	WCDMA V Left side 0.455 Right side 0.291 0.171 0.474	0.474	0.46	0.77			
		Top side		0.150	0.180	0.15	0.18
		Bottom side	0.164			0.16	0.16
		Front	0.642	0.161	0.165	0.80	0.81
		Back	0.938	0.250	0.271	1.19	1.21
	ITE	Left side	0.216			0.22	0.22
	LTE Band 2	Right side	0.255	0.171	0.474	0.43	0.73
		Top side		0.150	0.180	0.15	0.18
		Bottom side	0.655			0.66	0.66
		Front	0.438	0.161	0.165	0.60	0.60
		Back	0.541	0.250	0.271	0.79	0.81
	LTE David 5	Left side	0.478			0.48	0.48
LTE	LTE Band 5	Right side	0.324	0.171	0.474	0.50	/kg) 1g SAR (W/kg) 0.42 0.60 0.29 0.68 0.18 0.10 0.36 0.57 0.07 0.56 0.18 0.22 0.62 0.94 0.18 0.69 0.18 0.49 0.61 0.80 0.46 0.77 0.18 0.16 0.81 1.21 0.22 0.73 0.18 0.66 0.60 0.81
		Top side		0.150	0.180	0.15	0.18
		Bottom side	0.173			0.17	0.17
		Front	0.287	0.161	0.165	0.45	0.45
		Back	0.414	0.250	0.271	0.66	0.69
	ITE	Left side	0.064			0.06	0.06
	LTE Band 7	Right side	0.179	0.171	0.474	0.35	0.65
		Top side		0.150	0.180	0.15	0.18
		Bottom side	0.494			0.49	0.49

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			1	2	3	1+2	1+3
WWA	.N Band	Exposure	WWAN	2.4GHz WLAN	5GHz WLAN	Summed	Summed
WWA	IN Dalla	Position	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
		Front	0.198	0.089	0.057	0.29	0.26
		Back	0.257	0.127	0.087	0.38	0.34
	0014050	Left side	0.200			0.20	0.20
	GSM850	Right side	0.143	0.088	0.151	0.23	0.29
		Top side		0.085	0.071	0.09	0.07
CCM		Bottom side	0.055			0.06	0.06
GSM		Front	0.104	0.089	0.057	0.19	0.16
		Back	0.145	0.127	0.087	0.27	0.23
	CCM1000	Left side	0.044			0.04	0.04
	GSM1900	Right side	0.053	0.088	0.151	0.14	0.20
		Top side		0.085	0.071	0.09	0.07
		Bottom side	0.116			0.12	0.12
		Front	0.251	0.089	0.057	0.34	0.31
		Back	0.327	0.127	0.087	0.45	0.41
	WCDMA II	Left side	0.107			0.11	0.11
	WCDMA II	Right side	0.130	0.088	0.151	0.22	0.28
		Top side		0.085	0.071	0.09	0.07
MODMA		Bottom side	0.262			0.26	g SAR (W/kg) 10g SAR (W/kg) 0.29 0.26 0.38 0.34 0.20 0.20 0.09 0.07 0.06 0.06 0.19 0.16 0.27 0.23 0.04 0.04 0.14 0.20 0.09 0.07 0.12 0.12 0.34 0.31 0.45 0.41 0.11 0.11 0.22 0.28 0.09 0.07 0.26 0.26 0.43 0.40 0.54 0.50 0.32 0.32 0.29 0.35 0.09 0.07 0.09 0.09 0.44 0.41 0.58 0.54 0.13 0.13 0.24 0.31 0.09 0.07 0.35 0.35 0.43 0.40 0.55 0.51
WCDMA		Front	0.341	0.089	0.057	0.43	0.40
		Back	0.415	0.127	0.087	0.54	0.50
	WCDMA V	Left side	0.319			0.32	0.32
	WCDIVIA V	Right side	0.203	0.088	0.087 0.54 0.5 0.32 0.3 0.151 0.29 0.3 0.071 0.09 0.0	0.35	
		Top side		0.085	0.071	0.09	0.12 0.31 0.41 0.41 0.28 0.07 0.26 0.40 0.50 0.32 0.35 0.07 0.09 0.41 0.54 0.13 0.31 0.07
		Bottom side	0.092			0.09	0.09
		Front	0.348	0.089	0.057	0.44	0.41
		Back	0.451	0.127	0.087	0.58	0.54
	LTE Band 2	Left side	0.131			0.13	0.13
	LIE Banu 2	Right side	0.154	0.088	0.151	0.24	0.31
		Top side		0.085	0.071	0.09	0.07
		Bottom side	0.351			0.35	0.35
		Front	0.341	0.089	0.057	0.43	0.40
		Back	0.421	0.127	0.087	0.55	0.51
1.75	LTE Band F	Left side	0.333			0.33	ed Summed 10g SAR (W/kg) 0.26 0.34 0.20 0.29 0.07 0.06 0.16 0.23 0.04 0.20 0.07 0.12 0.31 0.41 0.11 0.28 0.07 0.26 0.32 0.35 0.07 0.09 0.41 0.50 0.32 0.35 0.07 0.09 0.41 0.54 0.13 0.31 0.41 0.54 0.54 0.13 0.35 0.07 0.09 0.41 0.54 0.13 0.31 0.07 0.09 0.41 0.54 0.13 0.35 0.07 0.09 0.41 0.54 0.13 0.35 0.07 0.09 0.41 0.54 0.13 0.35 0.07 0.09 0.41 0.54 0.13 0.35 0.07 0.09 0.41 0.54 0.13 0.35 0.07 0.09 0.41 0.54 0.13 0.35 0.07 0.09 0.40 0.51 0.32 0.35 0.07 0.09 0.40 0.51 0.32 0.35 0.07 0.09 0.40 0.51 0.20 0.29 0.04 0.25 0.07
LTE	LTE Band 5	Right side	0.225	0.088	0.151	0.31	
		Top side		0.085	0.071	0.09	
		Bottom side	0.099			0.10	0.10
		Front	0.147	0.089	0.057	0.24	0.20
		Back	0.198	0.127	0.087	0.33	0.29
	I TE Dand 7	Left side	0.035			0.04	0.04
	LTE Band 7	Right side	0.094	0.088	0.151	0.18	0.25
		Top side		0.085	0.071	0.09	0.07
		Bottom side	0.235			0.24	0.24

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16.3 Product Specific Exposure Conditions

	1	2	3	4	1+2	1+3	1+4
Exposure Position	WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed 10g SAR	Summed 10g SAR (W/kg)	Summed 10g SAR
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	(W/kg)		(W/kg)
Product Specific	-	-	0.674	-	0.00	0.67	0.00

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Remark:

16.4 Body-Worn Accessory Exposure Conditions

			1	2	3	4			
1AWW	N Band	Exposure Position	WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	1+2 Summed	1+3 Summed	1+4 Summed
***************************************	······································		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
	GSM850	Front	0.253	0.092	0.124	0.084	0.35	0.38	0.34
GSM	GSIVIOSU	Back	0.294	0.108	0.235	0.084	0.40	0.53	0.38
GSIVI	GSM1900	Front	0.113	0.092	0.124	0.084	0.21	0.24	0.20
	GSW1900	Back	0.136	0.108	0.235	0.084	0.24	d Summed 1g SAR (W/kg) 0.38 0.53	0.22
	WCDMA II	Front	0.248	0.092	0.124	0.084	0.34	0.37	0.33
WCDMA	VVCDIVIA II	Back	0.306	0.108	0.235	0.084	0.41	0.54	0.39
VVCDIVIA	MODMAN	Front	0.427	0.092	0.124	0.084	0.52	0.55	0.51
	WCDMA V	Back	0.490	0.108	0.235	0.084	0.60	0.73	0.57
	LTE Band 2	Front	0.299	0.092	0.124	0.084	0.39	0.42	0.38
	LIE Daliu Z	Back	0.330	0.108	0.235	0.084	0.44	0.57	0.41
LTE	LTE Band 5	Front	0.429	0.092	0.124	0.084	0.52	0.55	0.51
LIE	LIE Dand 5	Back	0.490	0.108	0.235	0.084	0.60	0.73	0.57
	LTE Band 7	Front	0.299	0.092	0.124	0.084	0.39	0.42	0.38
		Back	0.346	0.108	0.235	0.084	0.45	0.58	0.43

			1	2	3	1+2	1+3
1AWW	N Band	Exposure	WWAN	2.4GHz WLAN	5GHz WLAN	Summed	Summed
		Position	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
	GSM850	Front	0.197	0.050	0.044	0.25	0.24
GSM	GSIVIOSU	Back	0.228	0.059	0.083	0.29	0.31
GSIVI	GSM1900	Front	0.074	0.050	0.044	0.12	0.12
	GSW1900	Back	0.074	0.059	0.083	Summed 10g SAR (W/kg) (W/kg) 0.25 0.24 0.29 0.31	0.16
	WCDMA II	Front	0.162	0.050	0.044	0.21	0.21
WCDMA	WODIVIA	Back	0.166	0.059	0.083	0.23	Summed 10g SAR (W/kg) 1.25 0.24 0.29 0.31 0.12 0.12 0.13 0.16 0.21 0.23 0.25 0.38 0.37 0.44 0.46 0.23 0.24 0.27 0.38 0.38 0.38 0.38 0.38 0.44 0.46 0.21 0.20
VVCDIVIA	WCDMA V	Front	0.329	0.050	0.044		0.37
	WCDIVIA V	Back	0.378	0.059	0.083	0.44	0.46
	LTE Band 2	Front	0.182	0.050	0.044	0.23	0.23
	LIE Ballu 2	Back	0.183	0.059	0.083	0.24	0.27
LTE	LTE Band 5	Front	0.333	0.050	0.044	0.38	0.38
""	LIE Band 5	Back	0.378	0.059	0.083	0.44	0.46
	LTE Bond 7	Front	0.159	0.050	0.044	0.21	0.20
	LTE Band 7	Back	0.200	0.059	0.083	0.26	0.28

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^{1.} According to KDB 648474 D04v01r01, for WWAN / 2.4GHz WLAN hand SAR ("-") was excluded, since WWAN / 2.4GHz WLAN hotspot SAR was < 1.2W/kg.

17. Uncertainty Assessment

Note:

1. The uncertainty assessment of below which is submitted voluntarily.

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	$1/\sqrt{2}$

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

Table 17.1. Standard Uncertainty for Assumed Distribution

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

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

Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	6.00	N	1	1	1	6.0	6.0
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Boundary Effects	1.00	R	1.732	1	1	0.6	0.6
Linearity	4.70	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	2.90	R	1.732	1	1	1.7	1.7
Max. SAR Eval.	2.00	R	1.732	1	1	1.2	1.2
Test Sample Related							
Device Positioning	3.03	N	1	1	1	3.0	3.0
Device Holder	3.60	N	1	1	1	3.6	3.6
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty	6.10	R	1.732	1	1	3.5	3.5
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.71	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.71	2.3	2.0
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.71	1.1	1.0
Temp. unc Conductivity	3.68	R	1.732	0.78	0.71	1.7	1.5
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						11.6%	11.6%
Coverage Factor for 95 %						K=2	K=2

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

23.2%

23.1%

Expanded STD Uncertainty

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Standard Uncertainty Standard (Ci) (Ci) **Error Description** Value **Probability** Divisor Uncertainty Uncertainty 10q 1g (±%) (1g) (±%) (10g) (±%) **Measurement System Probe Calibration** 7.00 7.0 7.0 Ν Axial Isotropy 4.70 R 1.732 0.7 0.7 1.9 1.9 Hemispherical Isotropy 9.60 R 1.732 0.7 0.7 3.9 3.9 R 1.732 **Boundary Effects** 2.00 1.2 1.2 1 1 R 2.7 Linearity 4.70 1.732 1 1 2.7 System Detection Limits R 1.732 1.00 1 1 0.6 0.6 R Modulation Response 4.68 1.732 1 1 2.7 2.7 0.30 Ν 0.3 Readout Electronics 1 0.3 1 1 Response Time 0.00 R 1.732 1 1 0.0 0.0 R 1.732 1 1 Integration Time 2.60 1.5 1.5 RF Ambient Noise 3.00 R 1.732 1 1 1.7 1.7 **RF Ambient Reflections** 3.00 R 1.732 1 1 1.7 1.7 Probe Positioner 0.40 R 1.732 1 0.2 0.2 1 Probe Positioning 6.70 R 1.732 1 1 3.9 3.9 Max. SAR Eval. 4.00 R 1.732 1 1 2.3 2.3 **Test Sample Related Device Positioning** 3.03 Ν 1 1 1 3.0 3.0 Device Holder 3.60 Ν 1 1 3.6 3.6 1.732 Power Drift 5.00 R 2.9 2.9 1 1 **Power Scaling** 0.00 R 1.732 1 1 0.0 0.0 **Phantom and Setup** Phantom Uncertainty 6.60 R 1.732 1 1 3.8 3.8 R SAR correction 0.00 1.732 1 0.84 0.0 0.0 Liquid Conductivity Repeatability 0.03 Ν 0.78 0.71 0.0 0.0 Liquid Conductivity (target) 5.00 R 1.732 0.78 0.71 2.3 2.0 Liquid Conductivity (mea.) 2.50 R 1.732 0.78 0.71 1.1 1.0 3.68 R 1.732 0.78 0.71 1.5 Temp. unc. - Conductivity 1.7 Liquid Permittivity Repeatability 0.02 Ν 0.23 0.26 0.0 0.0 1 Liquid Permittivity (target) 5.00 R 1.732 0.23 0.26 0.7 8.0 Liquid Permittivity (mea.) 2.50 R 1.732 0.23 0.26 0.3 0.4

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Table 17.3. Uncertainty Budget for frequency range 3 GHz to 6 GHz

1.732

0.23

0.26

0.1

12.9%

K=2

25.9%

0.1

12.9%

K=2

25.8%

R

0.84

Combined Std. Uncertainty

Coverage Factor for 95 %

Expanded STD Uncertainty

Temp. unc. - Permittivity

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18. References

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