FCC SAR Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola : XT2421-5

FCC ID : IHDT56AR3

STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has 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. (Kunshan), the test report shall not be reproduced except in full.

Si Zhang

Approved by: Si Zhang

Hac-MRA



Report No. : FA381720

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Revision History

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA381720	Rev. 01	Initial issue of report	Dec. 13, 2023

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Motorola Mobility LLC, Mobile Cellular Phone, XT2421-5, are as follows.

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Highest 1g SAR Summary							
Equipment Frequency Class Band				Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission	
			•	1g SAR (W/kg)		1g SAR (W/kg)	
	GSM	GSM850	0.35	1.20	1.20		
	WCDMA	WCDMA V	0.36	1.42	1.42		
Licensed	LTE	LTE Band 5	0.23	1.43	1.43	1.58	
		LTE Band 7	1.10	1.25	1.25		
		LTE Band 41	0.52	1.44	1.44		
DTS	WLAN	WLAN2.4GHz	1.38	1.44	1.44	1.58	
NII	VVLAIN	WLAN5GHz	1.14	1.04	1.16	1.47	
DSS	Bluetooth	Bluetooth	0.11	0.14	0.14	1.58	

Highest 10g SAR Summary						
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)		
	GSM	GSM850	1.53			
	WCDMA LTE	WCDMA V	1.93	3.85		
Licensed		LTE Band 5	2.22			
		LTE Band 7	2.97			
		LTE Band 41	3.09			
DTS	WLAN	WLAN2.4GHz	1.31	3.55		
NII	WLAIN	WLAN5GHz	3.18	3.85		
	Date of Testing	<u>;</u>	2023/11/11~2023/11/19			

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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

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2. Administration Data

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Testing Laboratory							
Test Firm	Sporton International Inc. (Kunshan)						
Test Site Location	Jiangsu Province 215300	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158					
Sporton Site No. FCC Designation No. FCC Test Firm Registration							
Test Site No.	SAR07-KS	CN1257	314309				

Applicant				
Company Name	Motorola Mobility LLC			
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA			

Manufacturer				
Company Name	Motorola Mobility LLC			
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA			

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 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02

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4. Equipment Under Test (EUT) Information

4.1 General Information

	Product Feature & Specification
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2421-5
FCC ID	IHDT56AR3
IMEI Code	Sample 1: IMEI 1: 355031480009352 IMEI 2: 355031480009360 Sample 2: IMEI 1: 355031480010871 IMEI 2: 355031480010889
Frequency Band	GSM850: 824 MHz ~ 849 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 41: 2496 MHz ~ 2690 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5500 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.5GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS AMR / RMC 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink is not supported) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz : 802.11b/g/n HT20 WLAN 5GHz : 802.11a/n/ac HT20/VHT20 Bluetooth BR/EDR/LE NFC: ASK
HW Version	DVT2
SW Version	ULA34.53
GSM / (E)GPRS	Class B – EUT cannot support Packet Switched and Circuit Switched Network
Transfer mode	simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Pomark:	

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Remark:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE
 operation.
- 2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- 3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).
- 4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
- 5. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
- 6. There are two different types of EUT. They are single SIM card mobile and dual SIM card mobile. The others are the same including circuit design, PCB board, structure and all components. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we chose dual SIM card mobile to perform all tests.
- 7. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
- 8. There are two samples, the different between them refer to the XT2421-5_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, sample 1 was chosen to perform full

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SAR testing and sample 2 verified the worst case of sample 1.

9. The device has two headsets. Only suppliers are different, so chose one headset was chosen to perform full SAR testing.

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4.2 General LTE SAR Test and Reporting Considerations

Summarized r	necessary iter	ns addre	ssed in K	DB 94	1225 D05	v02r05		
FCC ID	IHDT56AR3							
Equipment Name	Mobile Cellula	r Phone						
Operating Frequency Range of each LTE transmission band	LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 5:1.4MHz - 3MHz - 5MHz - 10MHz							
Channel Bandwidth	LTE Band 7: 5M	LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz						
Uplink Modulations used	QPSK / 16QAM	I / 64QAM						
LTE Voice / Data requirements	Voice and Data							
LTE Release Version	R12, Cat 13							
CA Support	Supported, Upli	nk and Dov	wnlink					
	Table 6.2.3	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3 Modulation Channel bandwidth / Transmission bandwidth (NRB) MPR (dB)						
		1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
LTE MPR permanently built-in by design	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
	64 QAM 64 QAM	≤ 5 > 5	≤ 4 > 4	≤ 8 > 8	≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 2 ≤ 3
	256 QAM	- 5	- 4		≥1	/ 10	/ 10	≤ 5
LTE A-MPR	In the base stat A-MPR during (Maximum TTI)							
Spectrum plots for RB configuration	A properly co measurement; t not included in t	therefore, s	pectrum pl					
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body -worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 13.							
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 13.							
LTE Carrier Aggregation Additional Information	This device s component can evaluated per F This device s	rriers in th CC Guidar	ne uplink. nce.	SAR N	/leasureme	nts and o	conducted	powers were

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	Transmission (H, M, L) channel numbers and frequencies in each LTE band									
	LTE Band 5									
	Bandwidt	h 1.4 MHz	Bandwid	th 3 MHz	Bandwid	th 5 MHz	Bandwidt	h 10 MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	20407	824.7	20415	825.5	20425	826.5	20450	829		
М	20525	836.5	20525	836.5	20525	836.5	20525	836.5		
Н	20643	848.3	20635	847.5	20625	846.5	20600	844		
				LTE Baı	nd 7					
	Bandwid	lth 5 MHz	Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510		
М	21100	2535	21100	2535	21100	2535	21100	2535		
Н	21425	2567.5	21400	2565	21375	2562.5	21350	2560		

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	LTE Band 41								
	Bandwid	th 5 MHz	Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506	
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5	
М	40620	2593	40620	2593	40620	2593	40620	2593	
НМ	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5	
Н	41565	2687.5	41540	2685	41515	2682.5	41490	2680	

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5. Proximity Sensor Triggering Test

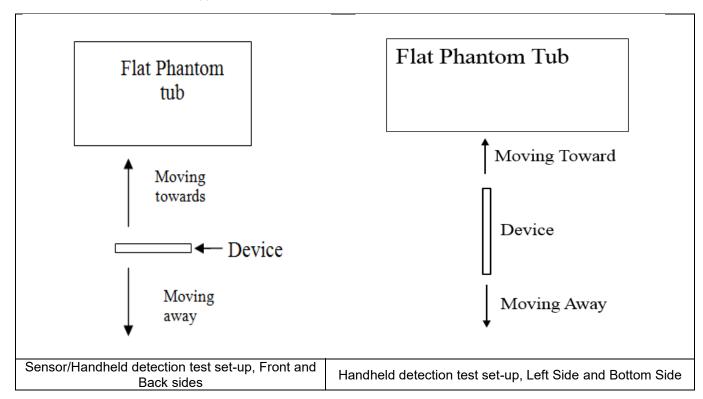
<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5850MHz) and lowest (1750MHz) frequency was used for proximity sensor triggering testing.

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- 2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
- 3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
- 4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
- 5. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/ bottom/left sides of the device. When front/back /bottom/left sides of handheld condition is detected reduced power will be active.
- For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



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<P-Sensor>

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Proximity Sensor Triggering Distance (mm)						
Position	Fro	ont	Back			
Position	Moving towards	Moving away	Moving towards	Moving away		
Minimum	10	17	21	26		

< Handheld for ANT2>

	Proximity Sensor Triggering Distance (mm)									
	Fro	ont	Back		Left Side		Bottom Side			
Position	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away		
Minimum	6	11	8	13	8	12	10	15		

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6. RF Exposure Limits

6.1 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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6.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

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7. Specific Absorption Rate (SAR)

7.1 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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7.2 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 (ρ). The equation description is as below:

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

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

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

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

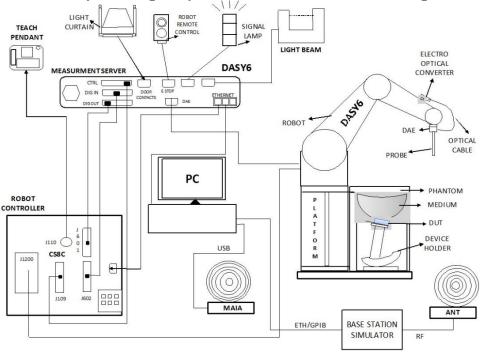
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8. System Description and Setup

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 Windows 10 and the DASY6 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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8.1 E-Field Probe

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

<EX3DV4 Probe>

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



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8.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

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8.3 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	* *
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

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

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	l l
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 or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

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8.4 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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9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

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

<SAR measurement>

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

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

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

9.1 Spatial Peak SAR Evaluation

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

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

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

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

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9.2 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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9.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz:} \le 12 \text{ mm}$ $4 - 6 \text{ GHz:} \le 10 \text{ mm}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution of 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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9.4 Zoom Scan

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

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

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

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.

9.5 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.

9.6 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.

10. Test Equipment List

Name for days	News of Easternant	T (84 - 4 - 1	OutstNowhea	Calibration		
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date	
SPEAG	835MHz System Validation Kit	D835V2	4d091	2022/8/19	2025/8/18	
SPEAG	2450MHz System Validation Kit	D2450V2	1040	2023/4/25	2024/4/24	
SPEAG	2600MHz System Validation Kit	D2600V2	1070	2021/12/20	2024/12/19	
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/22	
SPEAG	Data Acquisition Electronics	DAE4	1649	2023/4/24	2024/4/23	
SPEAG	Dosimetric E-Field Probe	EX3DV4	7706	2023/1/26	2024/1/25	
SPEAG	SAM Twin Phantom	SAM Twin	TP-2024	NCR	NCR	
CHIGO	Thermo-Hygrometer	HTC-1	55011	2023/1/8	2024/1/7	
SPEAG	Phone Positioner	N/A	N/A	NCR NCR		
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2023/7/5 2024/7/4		
Agilent	ENA Series Network Analyzer	E5071C	MY46111157	2023/7/5	2024/7/4	
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	2023/2/20	2024/2/19	
Anritsu	Vector Signal Generator	MG3710A	6201682672	2023/1/5	2024/1/4	
Rohde & Schwarz	Power Meter	NRVD	102081	2023/7/5	2024/7/4	
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2023/7/5	2024/7/4	
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2023/7/5	2024/7/4	
R&S	BLUETOOTH TESTER	CBT	101246	2023/5/15	2024/5/14	
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2023/10/11	2024/10/10	
TES	DIGITAC THERMOMETER	1310	220305411	2023/1/8	2024/1/7	
ARRA	Power Divider	A3200-2	N/A	No	te 1	
MCL	Attenuation1	BW-S10W5+	N/A	No	te 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1		
MCL	Attenuation3	BW-S10W5+	N/A	No	te 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	No	te 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	No	te 1	
Agilent	Dual Directional Coupler	778D	20500	No	te 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	No	te 1	

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Note:

- 1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
- 2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

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11. System Verification

11.1 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

11.2 Tissue Verification

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

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Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)		
(1411 12)	For Head									
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5		
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						
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2		
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	Head	22.8	0.911	41.9	0.90	41.50	1.22	0.96	±5	2023/11/11
2450	Head	22.6	1.74	39.3	1.80	39.20	-3.33	0.26	±5	2023/11/12
2600	Head	22.6	1.98	39.0	1.96	39.00	1.02	0.00	±5	2023/11/13
835	Head	22.8	0.912	41.9	0.90	41.50	1.33	0.96	±5	2023/11/14
2450	Head	22.6	1.74	39.3	1.80	39.20	-3.33	0.26	±5	2023/11/15
2600	Head	22.6	1.88	39.2	1.96	39.00	-4.08	0.51	±5	2023/11/16
5250	Head	22.8	4.58	36.3	4.71	35.90	-2.76	1.11	±5	2023/11/17
5600	Head	22.9	4.95	35.7	5.07	35.50	-2.37	0.56	±5	2023/11/18
5750	Head	22.7	5.13	35.6	5.22	35.40	- 1.72	0.56	±5	2023/11/19

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11.3 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.

<1g SAR>

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 (%)
2023/11/11	835	Head	50	4d091	7706	1649	0.483	9.45	9.66	2.22
2023/11/12	2450	Head	50	1040	7706	1649	2.52	52.70	50.4	-4.36
2023/11/13	2600	Head	50	1070	7706	1649	2.66	56.20	53.2	-5.34
2023/11/14	835	Head	50	4d091	7706	1649	0.481	9.45	9.62	1.80
2023/11/15	2450	Head	50	1040	7706	1649	2.54	52.70	50.8	-3.61
2023/11/16	2600	Head	50	1070	7706	1649	2.68	56.20	53.6	-4.63
2023/11/17	5250	Head	50	1113	7706	1649	3.79	81.50	75.8	-6.99
2023/11/18	5600	Head	50	1113	7706	1649	4.11	82.60	82.2	-0.48
2023/11/19	5750	Head	50	1113	7706	1649	3.76	80.80	75.2	-6.93

<10g SAR>

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 (%)
2023/11/11	835	Head	50	4d091	7706	1649	0.316	6.22	6.32	1.61
2023/11/12	2450	Head	50	1040	7706	1649	1.18	24.60	23.6	-4.07
2023/11/13	2600	Head	50	1070	7706	1649	1.19	24.60	23.8	-3.25
2023/11/14	835	Head	50	4d091	7706	1649	0.314	6.22	6.28	0.96
2023/11/15	2450	Head	50	1040	7706	1649	1.19	24.60	23.8	-3.25
2023/11/16	2600	Head	50	1070	7706	1649	1.19	24.60	23.8	-3.25
2023/11/17	5250	Head	50	1113	7706	1649	1.17	23.30	23.4	0.43
2023/11/18	5600	Head	50	1113	7706	1649	1.17	23.70	23.4	-1.27
2023/11/19	5750	Head	50	1113	7706	1649	1.06	23.00	21.2	-7.83

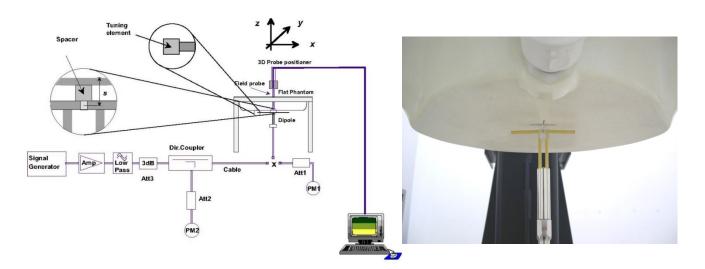


Fig 10.3.1 System Performance Check Setup

Fig 10.3.2 Setup Photo

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12. RF Exposure Positions

12.1 Ear and handset reference point

Figure 11.1.1 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 11.1.2 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 11.1.3). 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 11.1.2. 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 11.1.1 Front, back, and side views of SAM twin phantom

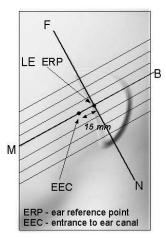
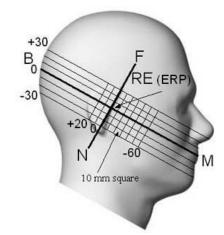


Fig 11.1.2 Close-up side view of phantom showing the ear region.



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Fig 11.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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12.2 Definition of the cheek position

- 1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- 2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 11.2.1 and Figure 11.2.2), 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 11.2.1). 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 11.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
- 3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 11.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- 4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- 5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- 6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 11.2.3. The actual rotation angles should be documented in the test report.

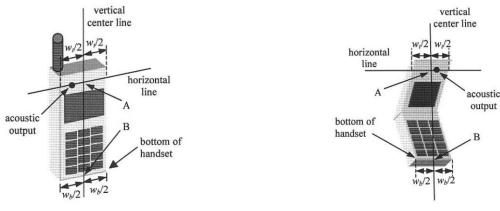


Fig 11.2.1 Handset vertical and horizontal reference lines—"fixed case

Fig 11.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

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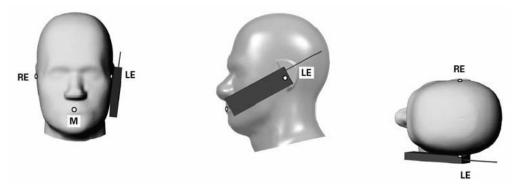


Fig 11.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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12.3 Definition of the tilt position

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

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- 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 11.3.1. 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

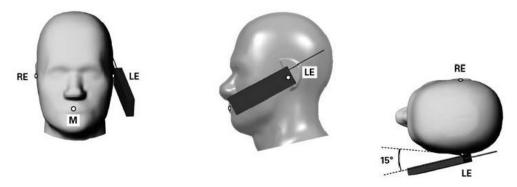


Fig 11.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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12.4 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 11.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. 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.

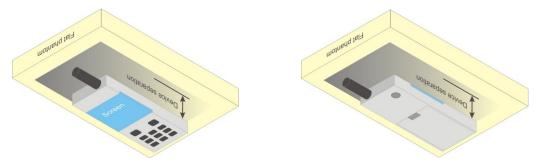


Fig 11.4 Body Worn Position

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12.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and 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

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- 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.

12.6 Wireless Router

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

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

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13. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

General Note:

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

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- 2. Per KDB 941225 D01v03r01, 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.
- 3. 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.

<WCDMA Conducted Power>

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

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

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

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Sub-test	βε	βd	βd (SF)	βс/βа	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	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:

 $\Delta_{\rm ACK}$, $\Delta_{\rm NACK}$ and $\Delta_{\rm CQI}$ = 30/15 with $\beta_{\it hs}$ = 30/15 * $\beta_{\it c}$. 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 Note 2: 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 $\beta_{hs} = 24/15 * \beta_c$.

CM = 1 for β_c/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HS-Note 3: DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

For subtest 2 the β_d/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is Note 4: achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d

Setup Configuration

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HSUPA Setup Configuration:

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

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

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

Sub- test	βα	βd	βd (SF)	βс/βа	βнs (Note1)	Вес	β _{ed} (Note 4) (Note 5)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	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	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	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

- Note 1: For sub-test 1 to 4, Δ_{NACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c . For sub-test 5, Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c .
- Note 2: CM = 1 for β_c/β_d =12/15, β_{he}/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 βc/βd 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 βc = 10/15 and βd = 15/15.
- Note 4: 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 5: βed can not be set directly; it is set by Absolute Grant Value.
- Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

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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. b.
- A call was established between EUT and Base Station with following setting:
 - Set RMC 12.2Kbps + HSDPA mode.
 - Set Cell Power = -25 dBm ii
 - Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK) iii.
 - Select HSDPA Uplink Parameters
 - 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: β_c/β_d =15/4 Set Delta ACK, Delta NACK and Delta CQI = 8
- Set Ack-Nack Repetition Factor to 3 vii.
- Set CQI Feedback Cycle (k) to 4 ms viii.
- ix. Set CQI Repetition Factor to 2
- 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	Avg. Inf. Bit Rate	kbps	60		
Inter-TTI	Distance	TTI's	1		
Number	of HARQ Processes	Proces	6		
		ses	· ·		
Informati	on Bit Payload ($N_{\it INF}$)	Bits	120		
Number	Code Blocks	Blocks	1		
Binary Cl	hannel Bits Per TTI	Bits	960		
Total Ava	ailable SML's in UE	SML's	19200		
Number	of SML's per HARQ Proc.	SML's	3200		
Coding R	Rate		0.15		
Number	of Physical Channel Codes	Codes	1		
Modulatio	on		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.					

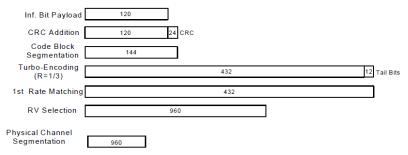


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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<WCDMA Conducted Power>

General Note:

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

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2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. 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, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

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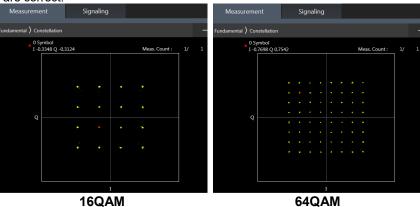
<LTE Conducted Power>

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.
- 9. According to May 2017 TCB workshop, for 16QAM and 64QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



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<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- b. "special subframe S" contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS

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c. Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

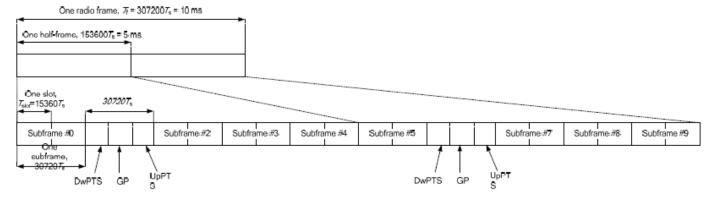


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink Downlink-to-Uplink		Subframe number									
configuration	Switch-point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe	Norma	l cyclic prefix i	n downlink	Extended cyclic prefix in downlink				
configuration	DwPTS	Up	PTS	DwPTS	Up	Up <mark>PTS</mark>		
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		
0	6592 ⋅ T _s			7680 · T _s				
1	19760 · T _s			20480 · T _s	2192 · T _e	2560 · T _o		
2	21952 · T _s	$2192 \cdot T_s$	$2560 \cdot T_s$	23040 · T _s	2192·1 _s	2500·1 _s		
3	24144 · T _s			25600 · T _s				
4	26336·T _s			7680 · T _s				
5	6592 ⋅ T _s			20480 · T _s	4384 · <i>T</i> ₅	5120 · T₂		
6	19760 ⋅ T _s			23040 · T _s	4364.1 _s	3120·1 _s		
7	21952 · T _s	$4384 \cdot T_s$	5120 · <i>T</i> _s	12800 · T _s				
8	24144 · T _s			-	-	-		
9	13168 · T _s			-	-	-		

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Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)									
	Special subframe Normal cyclic prefix in Extended cyclic prefix configuration uplink uplink								
Uplink duty factor in one	0~4	7.13%	8.33%						
special subframe	5~9	14.3%	16.7%						

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Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)									
	Special subframe Normal cyclic prefix in Extended cyclic prefix configuration uplink uplink								
Uplink duty factor in one	0~3	7.13%	8.33%						
special subframe	4~7	14.3%	16.7%						

The highest duty factor is resulted from:

For LTE TDD Power class 3

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.167)/5 = 63.3%
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.143)/5 = 62.9%
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

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<LTE Carrier Aggregation>

General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.

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- 2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
- 3. The gray color table is covered by other combinations and no need to verify power.

	2CC Downlink Carrier Aggregation
Number	Combination
1	CA_5A-7A
2	CA_7B
3	CA_7C
4	CA_7A-7A
5	CA_41A-41A
6	CA_41C

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LTE Carrier Aggregation Conducted Power (Downlink)

According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output measured without downlink carrier aggregation active.

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- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than 1/4 dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- i۷. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size ٧. and offset will base on the PCC corresponding RB allocation.
- For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully ۷İ. within the downlink transmission band.
- vii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

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LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna
CA_7C	Ant2
CA_41C	Ant2

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<Intra-band>

General Note:

- The device supports intra-band uplink carrier aggregation for LTE B7/41 with a maximum of two component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- Additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the İ٧. maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

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<WLAN Conducted Power>

General Note:

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) 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 in the initial test configuration. Additional output power measurements were not necessary.

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

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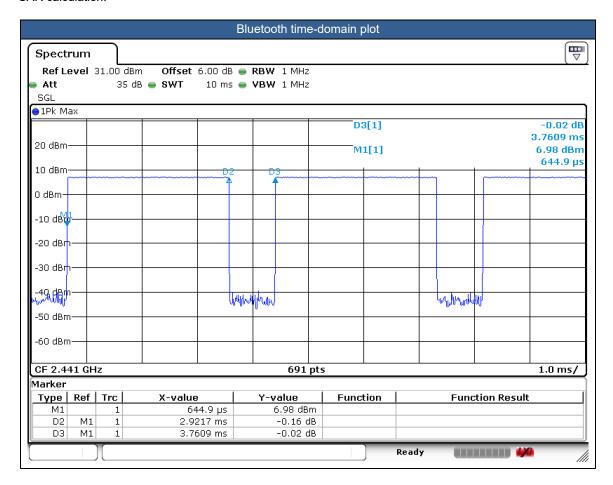
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<2.4GHz Bluetooth>

General Note:

- 1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- 2. The Bluetooth duty cycle is 77.69% as following figure, for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

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14. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

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15. SAR Test Results

General Note:

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

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
- c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
- d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- e. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- 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
- 3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- 4. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
- 5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power (for handheld on state, the maximum full power means reduced power), including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850, WCDMA Band V, LTE Band 5/7/41 and WLAN 2.4GHz /WLAN 5.2/5.8GHz therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
- 6. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.

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GSM Note:

1. 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

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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 $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

- 1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ 1/4 dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / 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, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than 1/4 dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

- 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.
- Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 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.
- Per KDB 941225 D05v02r05, 16QAM/64QAM 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/64QAM SAR testing is not required.
- 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.

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WLAN/Bluetooth Note:

 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.

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- 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.

DSI status description:

The device has the following DSI state which used at different exposure condition.

Exposure Condition	DSI	
Head SAR	DSI 2	Receiver on
Hotspot SAR	DSI 6	Hotspot On
Body worn SAR	DSI 3	Sensor on
Extremity (Handheld) SAR	DSI 5	Sensor on
Sensor off SAR	DSI 4	Sensor off

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15.1 Head SAR

Plot	Donal	BW	Ba aladati an	RB	RB	Mode	Test	Gap	A t	Power	Ch	Freq.	Cl-			Tune-up		Duty Cycle	Power	Measured	
No.	Band	(MHz)	Modulation	Size	offset	Mode	Position	(mm)	Antenna	State	Ch.	(MHz)	Sample	Power (dBm)	Limit (dBm)	Scaling Factor	Cycle %	Scaling Factor	Drift (dB)	1g SAR (W/kg)	1g SAR (W/kg)
									83	5MHz								T dotor			
01	GSM850	-	-	-	-	GPRS (2 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	189	836.4	1	30.65	31.50	1.216	-	-	0.06	0.287	0.349
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	189	836.4	1	30.65	31.50	1.216	-	-	-0.17	0.184	0.224
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Left Cheek	0mm	Ant 1	DSI 2	189	836.4	1	30.65	31.50	1.216	-	-	-0.08	0.271	0.330
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Left Tilted	0mm	Ant 1	DSI 2	189	836.4	1	30.65	31.50	1.216	-	-	-0.04	0.107	0.130
02	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	22.75	24.00	1.334	-	-	-0.1	0.268	0.357
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4182	836.4	1	22.75	24.00	1.334	-	-	0.17	0.145	0.193
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	22.75	24.00	1.334	-	-	0.18	0.234	0.312
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4182	836.4	1	22.75	24.00	1.334	-	-	-0.04	0.134	0.179
03	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	20525	836.5	1	22.81	24.00	1.315	-	-	0.03	0.177	0.233
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	20525	836.5	1	21.79	23.00	1.321	-	-	-0.13	0.151	0.200
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	20525	836.5	1	22.81	24.00	1.315	-	-	-0.13	0.099	0.130
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	20525	836.5	1	21.79	23.00	1.321	-	-	0.06	0.085	0.112
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	20525	836.5	1	22.81	24.00	1.315	-	-	-0.03	0.155	0.204
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	20525	836.5	1	21.79	23.00	1.321	-	-	-0.03	0.135	0.178
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	20525	836.5	1	22.81	24.00	1.315	-	-	0.08	0.092	0.121
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	20525	836.5	1	21.79	23.00	1.321	-	-	-0.07	0.078	0.103
									260	0MHz											
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	1	22.72	24.00	1.343	-	-	0.05	0.289	0.388
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	1	21.25	23.00	1.496	-	-	-0.11	0.285	0.426
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	21100	2535	1	22.72	24.00	1.343	1	•	-0.12	0.245	0.329
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	21100	2535	1	21.25	23.00	1.496	-	-	0.03	0.252	0.377
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	1	22.72	24.00	1.343	ı		-0.16	0.800	1.074
04	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	20850	2510	1	22.69	24.00	1.352	-	-	-0.09	0.814	1.101
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	21350	2560	1	22.51	24.00	1.409	-	-	0.15	0.770	1.085
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	1	21.25	23.00	1.496	-	-	-0.09	0.573	0.857
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	20850	2510	1	21.18	23.00	1.521	-	-	0.11	0.552	0.839
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	21350	2560	1	21.05	23.00	1.567	-	-	-0.05	0.577	0.904
	LTE Band 7	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	1	21.12	23.00	1.542	-	-	-0.08	0.640	0.987
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	21100	2535	1	22.72	24.00	1.343	-	-	0.16	0.219	0.294
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	21100	2535	1	21.25	23.00	1.496	-	-	0.05	0.223	0.334
	LTE Band 7C	20M	QPSK	1	99		Left Cheek	0mm	Ant 2	DSI 2	20850+ 21048	2510+ 2529.8	1	22.52	24.00	1.406	-	-	0.06	0.755	1.062
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	1	22.61	24.00	1.377	62.9	1.006	-0.03	0.186	0.258
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	1	21.35	23.00	1.462	62.9	1.006	-0.15	0.139	0.204
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	40620	2593	1	22.61	24.00	1.377	62.9	1.006	0.02	0.185	0.256
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	40620	2593	1	21.35	23.00	1.462	62.9	1.006	0.07	0.140	0.206
05	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	40620	2593	1	22.61	24.00	1.377	62.9	1.006	0.06	0.375	0.520
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	40620	2593	1	21.35	23.00	1.462	62.9	1.006	0.13	0.274	0.403
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	40620	2593	1	22.61	24.00	1.377	62.9	1.006	-0.18	0.145	0.201
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2		40620		1	21.35	23.00	1.462	62.9	1.006	0.02	0.104	0.153
	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 2	DSI 2	40620+ 40818		1	22.43	24.00	1.435	62.9	1.006	0.05	0.341	0.492

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Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample		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)
							WL	.AN&E	ЗТ								
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	0.08	0.244	0.331
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	0.01	0.220	0.299
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	0.01	0.616	0.836
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	Full power	6	2437	1	15.64	17.50	1.535	98.01	1.020	0.03	0.465	0.728
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	-0.08	0.395	0.536
06	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	2	2417	1	18.70	20.50	1.514	88.68	1.128	0.08	0.806	1.376
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	2	2417	2	18.70	20.50	1.514	88.68	1.128	0.03	0.747	1.275
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	1	2412	1	13.41	15.00	1.442	88.68	1.128	0.14	0.212	0.345
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	6	2437	1	18.54	20.50	1.570	88.68	1.128	0.11	0.752	1.332
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	9	2452	1	18.19	19.50	1.352	88.68	1.128	-0.05	0.632	0.964
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	10	2457	1	15.94	17.50	1.432	88.68	1.128	0.18	0.385	0.622
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	11	2462	1	12.72	14.50	1.507	88.68	1.128	0.14	0.193	0.328
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.315	77.69	1.072	-0.08	0.009	0.013
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.315	77.69	1.072	0.1	0.005	0.007
07	Bluetooth	1Mbps	Left Cheek	0mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.315	77.69	1.072	0.06	0.079	0.111
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.315	77.69	1.072	-0.18	0.054	0.076
	WLAN5.3GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5	Receiver On	60	5300	1	14.24	16.00	1.500	89.10	1.122	0.1	0.256	0.431
	WLAN5.3GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5	Receiver On	60	5300	1	14.24	16.00	1.500	89.10	1.122	0.12	0.347	0.584
	WLAN5.3GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	60	5300	1	14.24	16.00	1.500	89.10	1.122	0.08	0.381	0.641
08	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Receiver On	60	5300	1	14.24	16.00	1.500	89.10	1.122	-0.09	0.561	0.944
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Receiver On	64	5320	1	14.16	16.00	1.528	89.10	1.122	-0.03	0.476	0.816
	WLAN5.5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5	Receiver On	116	5580	1	14.77	16.00	1.327	89.10	1.122	0.14	0.430	0.640
	WLAN5.5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5	Receiver On	116	5580	1	14.77	16.00	1.327	89.10	1.122	0.11	0.563	0.838
	WLAN5.5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5	Receiver On	132	5660	1	14.61	16.00	1.377	89.10	1.122	0.01	0.555	0.858
	WLAN5.5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	116	5580	1	14.77	16.00	1.327	89.10	1.122	-0.05	0.609	0.907
	WLAN5.5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	132	5660	1	14.61	16.00	1.377	89.10	1.122	0.02	0.595	0.919
09	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Receiver On	116	5580	1	14.77	16.00	1.327	89.10	1.122	0.03	0.756	1.126
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Receiver On	116	5580	2	14.77	16.00	1.327	89.10	1.122	0.09	0.753	1.121
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Receiver On	132	5660	1	14.61	16.00	1.377	89.10	1.122	0.14	0.720	1.113
	WLAN5.8GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5	Receiver On	157	5785	1	13.45	15.00	1.429	89.10	1.122	-0.17	0.396	0.635
	WLAN5.8GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5	Receiver On	157	5785	1	13.45	15.00	1.429	89.10	1.122	0.17	0.491	0.787
	WLAN5.8GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	157	5785	1	13.45	15.00	1.429	89.10	1.122	-0.05	0.524	0.840
	WLAN5.8GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Receiver On	165	5825	1	13.34	15.00	1.466	89.10	1.122	0.02	0.485	0.798
10	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Receiver On	157	5785	1	13.45	15.00	1.429	89.10	1.122	0.01	0.709	1.137
	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Receiver On	157	5785	2	13.45	15.00	1.429	89.10	1.122	0.05	0.701	1.124
	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Receiver On	165	5825	1	13.34	15.00	1.466	89.10	1.122	0.1	0.646	1.062

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15.2 Hotspot SAR

			Otopo																		
Plot		BW		RB	RB		Test	Gap		Power		Freq.			Tune-Up	Tune-up	Duty	Duty Cycle	Power	Measured	
No.	Band	(MHz)	Modulation	Size	offset	Mode	Position	(mm)	Antenna	State	Ch.	(MHz)	Sample	Power (dBm)	Limit (dBm)	Scaling Factor	Cycle %	Scaling	Drift (dB)	1g SAR (W/kg)	1g SAR (W/kg)
														(abiii)	(abiii)	1 actor	/0	Factor	(ub)	(W/Kg)	(W/Kg)
			1			I				35MHz							ı				T
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 1	DSI 6	189	836.4	1	30.65	31.50	1.216	-	-	0.08	0.433	0.527
11	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	DSI 6	189	836.4	1	30.65	31.50	1.216	-	-	0.01	0.989	1.203
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	DSI 6	128	824.2	1	30.61	31.50	1.227	-	-	0.06	0.961	1.180
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	DSI 6	251	848.8	1	30.56	31.50	1.242	-	-	0.02	0.952	1.182
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Left Side	5mm	Ant 1	DSI 6	189	836.4	1	30.65	31.50	1.216	-	-	0.16	0.343	0.417
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Right side	5mm	Ant 1	DSI 6	189	836.4	1	30.65	31.50	1.216	-	-	-0.03	0.409	0.497
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Bottom Side	5mm	Ant 1	DSI 6	189	836.4	1	30.65	31.50	1.216	-	-	0.07	0.165	0.201
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 6	4182	836.4	1	22.75	24.00	1.334	-	-	-0.08	0.483	0.644
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 6	4182	836.4	1	22.75	24.00	1.334	-	-	-0.08	1.040	1.387
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 6	4132	826.4	1	22.69	24.00	1.352	-	-	0.1	0.914	1.236
12	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 6	4233	846.6	1	22.72	24.00	1.343	-	-	0.03	1.060	1.423
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 6	4182	836.4	1	22.75	24.00	1.334	-	-	-0.06	0.401	0.535
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right side	5mm	Ant 1	DSI 6	4182	836.4	1	22.75	24.00	1.334	-	-	-0.04	0.435	0.580
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 6	4182	836.4	1	22.75	24.00	1.334	-	-	-0.09	0.150	0.200
	LTE Band 5	10M	QPSK	1	0		Front	5mm	Ant 1	DSI 6	20525	836.5	1	22.81	24.00	1.315	_	_	0.1	0.512	0.673
	LTE Band 5	10M	QPSK	25	0	_	Front	5mm	Ant 1	DSI 6	20525	836.5	1	21.79	23.00	1.321	_	_	0.12	0.304	0.402
13	LTE Band 5	10M	QPSK	1	0		Back	5mm	Ant 1	DSI 6	20525	836.5	1	22.81	24.00	1.315	-	-	0.07	1.090	1.434
10	LTE Band 5	10M	QPSK	25	0	-	Back		Ant 1	DSI 6	20525	836.5	1	21.79	23.00	1.321	-	-	-0.17	0.662	0.875
				-		-		5mm						1	1	-	-	-			1
	LTE Band 5	10M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 6	20525	836.5	1	21.73	23.00	1.340	<u> </u>		-0.03	0.795	1.065
	LTE Band 5	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 6	20525	836.5	1	22.81	24.00	1.315	-		-0.1	0.480	0.631
	LTE Band 5	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI 6	20525	836.5	1	21.79	23.00	1.321	-	-	0.18	0.268	0.354
	LTE Band 5	10M	QPSK	1	0	-	Right side	5mm	Ant 1	DSI 6	20525	836.5	1	22.81	24.00	1.315	-	-	-0.17	0.533	0.701
	LTE Band 5	10M	QPSK	25	0	-	Right side	5mm	Ant 1	DSI 6	20525	836.5	1	21.79	23.00	1.321	-	-	-0.04	0.365	0.482
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 6	20525	836.5	1	22.81	24.00	1.315	-	-	-0.05	0.200	0.263
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	DSI 6	20525	836.5	1	21.79	23.00	1.321	-	-	0.01	0.134	0.177
	ı		1			1			26	00MHz				1	1						
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 6	21350	2560	1	15.76	16.50	1.186	-	-	-0.17	0.299	0.355
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 6	21350	2560	1	14.74	15.50	1.191	-	-	0.01	0.297	0.354
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 6	21350	2560	1	15.76	16.50	1.186	-	-	-0.01	0.844	1.001
14	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 6	20850	2510	1	15.35	16.50	1.303	-	-	0.07	0.959	1.250
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 6	21100	2535	1	15.02	16.50	1.406	-	-	-0.08	0.629	0.884
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 6	21350	2560	1	14.74	15.50	1.191	-	-	0.05	0.778	0.927
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 6	20850	2510	1	14.36	15.50	1.300	-	-	0.06	0.818	1.064
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 6	21100	2535	1	14.08	15.50	1.387	-	-	-0.09	0.557	0.772
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI 6	21350	2560	1	14.70	15.50	1.202	-	-	-0.08	0.722	0.868
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 6	21350	2560	1	15.76	16.50	1.186	-	-	0.13	0.347	0.411
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 6	21350	2560	1	14.74	15.50	1.191	-	-	0.18	0.347	0.413
	LTE Band 7	20M	QPSK	1	0	-	Right side	5mm	Ant 2	DSI 6	21350	2560	1	15.76	16.50	1.186	-	-	0.18	0.042	0.050
	LTE Band 7	20M	QPSK	50	0	-	Right side	5mm	Ant 2	DSI 6	21350	2560	1	14.74	15.50	1.191	-	-	-0.1	0.043	0.051
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	-	Ant 2		21350	2560	1	15.76	16.50	1.186	-	-	0.01	0.220	0.261
	LTE Band 7	20M	QPSK	50	0		Bottom Side	1	Ant 2		21350	2560	1	14.74	15.50	1.191	-	-	0.07	0.232	0.276
	LTE Band 7C		QPSK	1	99	-	Back	5mm	Ant 2	DSI 3	20850+	2510+	1	15.22	16.50	1.343	_	_	0.01	0.901	1.210
	LIL Dallu / C	ZUIVI	QI SIN		99	-	Dack	JIIIII	Antz			2529.8	- 1	10.22	10.00	1.040	<u> </u>	<u> </u>	0.01	0.301	1.210
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 2	DSI 3	21100+ 21298	2535+ 2554.8	1	14.88	16.50	1.452	<u>_</u> -	-	0.06	0.823	1.195
	LTE Band 7C	20M	QPSK	1	0	=	Back	5mm	Ant 2	DSI 3	21350+		1	15.69	16.50	1.205	-	-	0.03	0.889	1.071
	LTE Band 41		QPSK	1	0	_	Front		Ant 2		21152 40620	2540.2 2593	1	19.51	21.00	1.409	62.9	1.006	-0.08	0.406	0.576
				1				5mm										1			
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2		40620	2593	1	18.56	20.00	1.393	62.9	1.006	-0.15	0.300	0.420
45	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 6		2593	1	19.51	21.00	1.409	62.9	1.006	0.02	0.867	1.229
15	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2			2506	1	19.42	21.00	1.439	62.9	1.006	0.05	0.994	1.439
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2		40185		1	19.48	21.00	1.419	62.9	1.006	0.02	0.891	1.272
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 6	41055	2636.5	1	19.45	21.00	1.429	62.9	1.006	0.01	0.826	1.187

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LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 6	41490	2680	1	19.49	21.00	1.416	62.9	1.006	-0.01	0.876	1.248
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 6	40620	2593	1	18.56	20.00	1.393	62.9	1.006	-0.06	0.677	0.949
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 6	39750	2506	1	18.38	20.00	1.452	62.9	1.006	-0.04	0.775	1.132
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 6	40185	2549.5	1	18.50	20.00	1.413	62.9	1.006	-0.09	0.656	0.932
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 6	41055	2636.5	1	18.51	20.00	1.409	62.9	1.006	-0.17	0.661	0.937
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 6	41490	2680	1	18.48	20.00	1.419	62.9	1.006	-0.1	0.640	0.914
LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI 6	40620	2593	1	18.52	20.00	1.406	62.9	1.006	0.18	0.673	0.952
LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 6	40620	2593	1	19.51	21.00	1.409	62.9	1.006	-0.17	0.696	0.987
LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 6	39750	2506	1	19.42	21.00	1.439	62.9	1.006	-0.04	0.705	1.020
LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 6	40185	2549.5	1	19.48	21.00	1.419	62.9	1.006	-0.05	0.619	0.884
LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 6	41055	2636.5	1	19.45	21.00	1.429	62.9	1.006	0.06	0.683	0.982
LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 6	41490	2680	1	19.49	21.00	1.416	62.9	1.006	-0.13	0.658	0.937
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 6	40620	2593	1	18.56	20.00	1.393	62.9	1.006	-0.01	0.549	0.769
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 6	39750	2506	1	18.38	20.00	1.452	62.9	1.006	-0.09	0.516	0.754
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 6	40185	2549.5	1	18.50	20.00	1.413	62.9	1.006	0.05	0.454	0.645
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 6	41055	2636.5	1	18.51	20.00	1.409	62.9	1.006	0.02	0.379	0.537
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 6	41490	2680	1	18.48	20.00	1.419	62.9	1.006	-0.13	0.390	0.557
LTE Band 41	20M	QPSK	100	0	-	Left Side	5mm	Ant 2	DSI 6	40620	2593	1	18.52	20.00	1.406	62.9	1.006	0.17	0.536	0.758
LTE Band 41	20M	QPSK	1	0	-	Right side	5mm	Ant 2	DSI 6	40620	2593	1	19.51	21.00	1.409	62.9	1.006	0.06	0.063	0.089
LTE Band 41	20M	QPSK	50	0	-	Right side	5mm	Ant 2	DSI 6	40620	2593	1	18.56	20.00	1.393	62.9	1.006	0.01	0.047	0.066
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI 6	40620	2593	1	19.51	21.00	1.409	62.9	1.006	-0.04	0.253	0.359
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI 6		2593	1	18.56	20.00	1.393	62.9	1.006	0.04	0.190	0.266
LTE Band 41	C 20M	QPSK	1	99	-	Back	5mm	Ant 2	DSI 3	39750+ 39948	2506+ 2525.8	1	19.37	21.00	1.455	62.9	1.006	0.09	0.956	1.400
LTE Band 41	C 20M	QPSK	1	99	-	Back	5mm	Ant 2	DSI 3	40185+ 40383	2549.5+ 2569.3	1	19.41	21.00	1.442	62.9	1.006	0.08	0.948	1.375
LTE Band 41	C 20M	QPSK	1	99	-	Back	5mm	Ant 2	DSI 3	40620+ 40818	2593+ 2612.8	1	19.37	21.00	1.455	62.9	1.006	0.01	0.950	1.391
LTE Band 41	C 20M	QPSK	1	99	-	Back	5mm	Ant 2	DSI 3		2636.5+ 2656.3	1	19.38	21.00	1.452	62.9	1.006	0.03	0.936	1.367
LTE Band 41	C 20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	41490+ 41292		1	19.40	21.00	1.445	62.9	1.006	-0.08	0.942	1.370

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Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample		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)
							WL	.AN&B	Т								
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	-0.17	0.191	0.259
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	0.04	0.416	0.565
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	-0.08	0.046	0.062
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	0.1	0.331	0.449
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 5	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	-0.18	0.303	0.411
16	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	Reduced	2	2417	1	18.70	20.50	1.514	88.68	1.128	-0.01	0.845	1.443
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	Reduced	1	2412	1	13.41	15.00	1.442	88.68	1.128	0.1	0.206	0.335
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	Reduced	6	2437	1	18.54	20.50	1.570	88.68	1.128	0.12	0.726	1.286
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	Reduced	9	2452	1	18.19	19.50	1.352	88.68	1.128	0.08	0.623	0.950
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	Reduced	10	2457	1	15.94	17.50	1.432	88.68	1.128	-0.17	0.412	0.666
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	Reduced	11	2462	1	12.72	14.50	1.507	88.68	1.128	-0.03	0.186	0.316
	Bluetooth	1Mbps	Front	5mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.316	77.69	1.072	-0.09	0.031	0.044
17	Bluetooth	1Mbps	Back	5mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.316	77.69	1.072	0.01	0.098	0.138
	Bluetooth	1Mbps	Left Side	5mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.316	77.69	1.072	-0.08	0.015	0.021
	Bluetooth	1Mbps	Right Side	5mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.316	77.69	1.072	0.13	0.052	0.073
	Bluetooth	1Mbps	Top Side	5mm	Ant 5	Full power	0	2402	1	9.31	10.50	1.316	77.69	1.072	0.12	0.041	0.058
	WLAN5.2GHz	802.11a 6Mbps	Front	5mm	Ant 5	Reduced	44	5220	1	14.65	16.00	1.365	89.10	1.122	0.03	0.118	0.181
	WLAN5.2GHz	802.11a 6Mbps	Back	5mm	Ant 5	Reduced	44	5220	1	14.65	16.00	1.365	89.10	1.122	0.18	0.316	0.484
	WLAN5.2GHz	802.11a 6Mbps	Left Side	5mm	Ant 5	Reduced	44	5220	1	14.65	16.00	1.365	89.10	1.122	-0.1	0.011	0.017
	WLAN5.2GHz	802.11a 6Mbps	Right Side	5mm	Ant 5	Reduced	44	5220	1	14.65	16.00	1.365	89.10	1.122	0.07	0.104	0.159
18	WLAN5.2GHz	802.11a 6Mbps	Top Side	5mm	Ant 5	Reduced	44	5220	1	14.65	16.00	1.365	89.10	1.122	-0.07	0.662	1.014
	WLAN5.2GHz	802.11a 6Mbps	Top Side	5mm	Ant 5	Reduced	44	5220	2	14.65	16.00	1.365	89.10	1.122	0.05	0.525	0.804
	WLAN5.2GHz	802.11a 6Mbps	Top Side	5mm	Ant 5	Reduced	40	5200	1	14.57	16.00	1.390	89.10	1.122	-0.1	0.604	0.942
	WLAN5.8GHz	802.11a 6Mbps	Front	5mm	Ant 5	Reduced	157	5785	1	13.45	15.00	1.429	89.10	1.122	-0.08	0.110	0.176
	WLAN5.8GHz	802.11a 6Mbps	Back	5mm	Ant 5	Reduced	157	5785	1	13.45	15.00	1.429	89.10	1.122	-0.13	0.337	0.540
	WLAN5.8GHz	802.11a 6Mbps	Left Side	5mm	Ant 5	Reduced	157	5785	1	13.45	15.00	1.429	89.10	1.122	-0.03	0.023	0.037
	WLAN5.8GHz	802.11a 6Mbps	Right Side	5mm	Ant 5	Reduced	157	5785	1	13.45	15.00	1.429	89.10	1.122	-0.03	0.070	0.112
19	WLAN5.8GHz	802.11a 6Mbps	Top Side	5mm	Ant 5	Reduced	157	5785	1	13.45	15.00	1.429	89.10	1.122	0.11	0.648	1.039
	WLAN5.8GHz	802.11a 6Mbps	Top Side	5mm	Ant 5	Reduced	165	5825	1	13.34	15.00	1.466	89.10	1.122	-0.07	0.606	0.996

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Sporton International Inc. (Kunshan) TEL: +86-512-57900158

Issued Date: Dec. 13, 2023 Report Template No. : 200414 FCC ID: IHDT56AR3



15.3 Body Worn Accessory SAR

			,																Duty			
Plot No.	Band	BW (MHz)	Modulation	RB	RB	Mode	Test Position	Gap	Antenna	Headset	Power State	Ch.	Freq.	Sample		Tune-Up Limit	Tune-up Scaling	Cyclo	Duty Cycle	Power Drift	Measured 1g SAR	Reported 1g SAR
NO.		(IVIFIZ)		Size	onsei		rosilion	(111111)			State		(IVITIZ)		(dBm)	(dBm)	Factor	%	Scaling Factor	(dB)	(W/kg)	(W/kg)
										835M	Hz								1			
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 1	-	DSI 3	189	836.4	1	30.65	31.50	1.216	-	-	0.08	0.433	0.527
20	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	-	DSI 3	189	836.4	1	30.65	31.50	1.216	-	-	0.01	0.989	1.203
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	-	DSI 3	128	824.2	1	30.61	31.50	1.227	-	-	0.06	0.961	1.180
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	-	DSI 3	251	848.8	1	30.56	31.50	1.242	-	-	0.02	0.952	1.182
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	Headset	DSI 3	189	836.4	1	30.65	31.50	1.216	-	-	0.09	0.950	1.155
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	4182	836.4	1	22.75	24.00	1.334	-	-	-0.08	0.483	0.644
	WCDMA V	-	1	-	•	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4182	836.4	1	22.75	24.00	1.334	-	-	-0.08	1.040	1.387
	WCDMA V	-	-	-	1	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4132	826.4	1	22.69	24.00	1.352	-	-	0.1	0.914	1.236
21	WCDMA V	-	1	-	1	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4233	846.6	1	22.72	24.00	1.343	-	-	0.03	1.060	1.423
	WCDMA V	-	-	-	1	RMC 12.2Kbps	Back	5mm	Ant 1	Headset	DSI 3	4233	846.6	1	22.72	24.00	1.343	-	-	0.01	1.040	1.396
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	20525	836.5	1	22.81	24.00	1.315	-	-	0.1	0.512	0.673
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	20525	836.5	1	21.79	23.00	1.321	-	-	0.12	0.304	0.402
22	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	1	22.81	24.00	1.315	-	-	0.07	1.090	1.434
	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	2	22.81	24.00	1.315	-	-	0.02	0.996	1.310
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	1	21.79	23.00	1.321	-	-	-0.17	0.792	1.046
	LTE Band 5	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	1	21.73	23.00	1.340	-	-	-0.03	0.795	1.065
	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	20525	836.5	1	22.81	24.00	1.315	-	-	0.08	1.080	1.420
				ı						2600N	ИHz											
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	21350	2560	1	15.76	16.50	1.186	-	-	-0.17	0.299	0.355
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	21350	2560	1	14.74	15.50	1.191	-	-	0.01	0.297	0.354
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	21350	2560	1	15.76	16.50	1.186	-	-	-0.01	0.844	1.001
23	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	20850	2510	1	15.35	16.50	1.303	-	-	0.07	0.959	1.250
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	21100	2535	1	15.02	16.50	1.406	-	-	-0.08	0.629	0.884
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	21350	2560	1	14.74	15.50	1.191	-	-	0.05	0.778	0.927
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	20850	2510	1	14.36	15.50	1.300	-	-	0.06	0.818	1.064
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	_	DSI 3	21100	2535	1	14.08	15.50	1.387	-	_	-0.09	0.557	0.772
	LTE Band 7	20M	QPSK	100	0	_	Back	5mm	Ant 2	_	DSI 3	21350	2560	1	14.70	15.50	1.202	_	_	-0.08	0.722	0.868
	LTE Band 7	20M	QPSK	1	0	_	Back	5mm	Ant 2	Headset	DSI 3	20850	2510	1	15.35	16.50	1.303	_	_	0.01	0.940	1.225
					99	_					DSI 3	20850+	2510+									
	LTE Band 7C	20M	QPSK	1		-	Back	5mm	Ant 2	-		21048 21100+	2529.8 2535+	1	15.22	16.50	1.343	-	-	0.01	0.901	1.210
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 2	-	DSI 3	21298	2554.8	1	14.88	16.50	1.452	-	-	0.06	0.823	1.195
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	21350+ 21152	2560+ 2540.2	1	15.69	16.50	1.205	-	-	0.03	0.889	1.071
	LTE Band 7	20M	QPSK	1	0	-	Front	9mm	Ant 2	-	DSI 4	21350	2560	1	22.51	24.00	1.409	-	-	0.02	0.705	0.994
	LTE Band 7	20M	QPSK	1	0	-	Front	9mm	Ant 2	-	DSI 4	20850	2510	1	22.69	24.00	1.352	-	-	0.08	0.710	0.960
	LTE Band 7	20M	QPSK	1	0	-	Front	9mm	Ant 2	-	DSI 4	21100	2535	1	22.72	24.00	1.343	-	-	0.01	0.723	0.971
	LTE Band 7	20M	QPSK	50	0	-	Front	9mm	Ant 2	-	DSI 4	21350	2560	1	21.05	23.00	1.567	-	-	0.03	0.565	0.885
	LTE Band 7	20M	QPSK	50	0	-	Front	9mm	Ant 2	-	DSI 4	20850	2510	1	21.18	23.00	1.521	-	-	-0.08	0.570	0.867
	LTE Band 7	20M	QPSK	50	0	-	Front	9mm	Ant 2	-	DSI 4	21100	2535	1	21.25	23.00	1.496	-	-	-0.08	0.586	0.877
	LTE Band 7	20M	QPSK	100	0	-	Front	9mm	Ant 2	-	DSI 4	21100	2535	1	21.12	23.00	1.542	-	-	0.1	0.552	0.851
	LTE Band 7	20M	QPSK	1	0	-	Back	20mm	Ant 2	-	DSI 4	20850	2510	1	22.69	24.00	1.352	-	-	0.06	0.304	0.411
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	40620	2593	1	19.51	21.00	1.409	62.9	1.006	-0.08	0.406	0.576
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2		DSI 3	40620	2593	1	18.56	20.00	1.393	62.9	1.006	-0.15	0.300	0.420
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2		DSI 3	40620	2593	1	19.51	21.00	1.409	62.9	1.006	0.02	0.867	1.229
24	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	39750	2506	1	19.42	21.00	1.439	62.9	1.006	0.05	0.994	1.439
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	39750	2506	2	19.42	21.00	1.439	62.9	1.006	0.03	0.879	1.272
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	_	DSI 3	40185	2549.5	1	19.48	21.00	1.419	62.9	1.006	0.02	0.891	1.272
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2		DSI 3	41055	2636.5	1	19.45	21.00	1.429	62.9	1.006	0.02	0.826	1.187
	LTE Band 41		QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	41490	2680	1	19.49	21.00	1.416	62.9	1.006	-0.01	0.876	1.248
	LTE Band 41		QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	1	18.56	20.00	1.393	62.9	1.006	-0.06	0.677	0.949
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-		39750	2506	1	18.38	20.00	1.452	62.9	1.006	-0.04	0.077	1.132
	LTE Band 41	20M	QPSK	50	0	-	Back		Ant 2	-			2549.5	1	18.50	20.00	1.432	62.9		-0.04	0.775	0.932
	LIL DallQ 41	ZUIVI	WF3N	JU	U	_	Dack	5mm	AIIL Z		ט וטע	40105	ZJ49.0	L '	10.00	20.00	1.413	u∠.9	1.000	-0.09	0.000	0.932

Sporton International Inc. (Kunshan)

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LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	41055	2636.5	1	18.51	20.00	1.409	62.9	1.006	-0.17	0.661	0.937
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	41490	2680	1	18.48	20.00	1.419	62.9	1.006	-0.1	0.640	0.914
LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	1	18.52	20.00	1.406	62.9	1.006	0.18	0.673	0.952
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	39750	2506	1	19.42	21.00	1.439	62.9	1.006	0.06	0.951	1.377
LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 2	-	DSI 3	39750+ 39948	2506+ 2525.8	1	19.37	21.00	1.455	62.9	1.006	0.09	0.956	1.400
LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 2	-	DSI 3		2549.5+ 2569.3	1	19.41	21.00	1.442	62.9	1.006	0.08	0.948	1.375
LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 2	-	DSI 3		2612.8	1	19.37	21.00	1.455	62.9	1.006	0.01	0.950	1.391
LTE Band 41C	20M	QPSK	1	99		Back	5mm	Ant 2	-	DSI 3		2636.5+ 2656.3	1	19.38	21.00	1.452	62.9	1.006	0.03	0.936	1.367
LTE Band 41C	20M	QPSK	1	0		Back	5mm	Ant 2	-	DSI 3	41490+ 41292	2680+ 2660.2	1	19.40	21.00	1.445	62.9	1.006	-0.08	0.942	1.370
LTE Band 41	20M	QPSK	1	0	-	Front	9mm	Ant 2	-	DSI 4	40620	2593	1	22.61	24.00	1.377	62.9	1.006	0.03	0.383	0.531
LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 2	-	DSI 4	39750	2506	1	22.45	24.00	1.429	62.9	1.006	0.01	0.210	0.302

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Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample		Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cyclo	Duty Cycle Scaling Factor	Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
							V	VLA	N&BT									
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	-	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	-0.17	0.191	0.259
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	-	Full power	1	2412	1	16.76	18.00	1.330	98.01	1.020	0.04	0.416	0.565
25	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	-	Reduced	2	2417	1	18.70	20.50	1.514	88.68	1.128	-0.01	0.845	1.443
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	-	Reduced	2	2417	2	18.70	20.50	1.514	88.68	1.128	0.02	0.807	1.378
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	-	Reduced	1	2412	1	13.41	15.00	1.442	88.68	1.128	0.1	0.206	0.335
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	-	Reduced	6	2437	1	18.54	20.50	1.570	88.68	1.128	0.12	0.726	1.286
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	-	Reduced	9	2452	1	18.19	19.50	1.352	88.68	1.128	0.08	0.623	0.950
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	-	Reduced	10	2457	1	15.94	17.50	1.432	88.68	1.128	-0.17	0.412	0.666
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	-	Reduced	11	2462	1	12.72	14.50	1.507	88.68	1.128	-0.03	0.186	0.316
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 5	Headset	Reduced	2	2417	1	18.70	20.50	1.514	88.68	1.128	0.06	0.823	1.405
	WLAN2.4GHz	802.11g 6Mbps	Front	9mm	Ant 5	-	Full power	2	2417	1	19.83	21.50	1.469	88.68	1.128	0.03	0.259	0.429
	WLAN2.4GHz	802.11g 6Mbps	Back	20mm	Ant 5	-	Full power	2	2417	1	19.83	21.50	1.469	88.68	1.128	0.01	0.113	0.187
	Bluetooth	1Mbps	Front	5mm	Ant 5	-	Full power	0	2402	1	9.31	10.50	1.316	77.69	1.072	-0.09	0.031	0.044
26	Bluetooth	1Mbps	Back	5mm	Ant 5	-	Full power	0	2402	1	9.31	10.50	1.316	77.69	1.072	0.01	0.098	0.138
	WLAN5.3GHz	802.11a 6Mbps	Front	5mm	Ant 5	-	Reduced	60	5300	1	14.24	16.00	1.500	89.10	1.122	0.08	0.247	0.416
	WLAN5.3GHz	802.11a 6Mbps	Back	5mm	Ant 5	-	Reduced	60	5300	1	14.24	16.00	1.500	89.10	1.122	0.06	0.667	1.122
27	WLAN5.3GHz	802.11a 6Mbps	Back	5mm	Ant 5	-	Reduced	64	5320	1	14.16	16.00	1.528	89.10	1.122	0.03	0.675	1.157
	WLAN5.3GHz	802.11a 6Mbps	Back	5mm	Ant 5	-	Reduced	64	5320	2	14.16	16.00	1.528	89.10	1.122	0.01	0.572	0.980
	WLAN5.3GHz	802.11a 6Mbps	Front	9mm	Ant 5	-	Full power	60	5300	1	18.17	20.00	1.524	89.10	1.122	0.08	0.313	0.535
	WLAN5.3GHz	802.11a 6Mbps	Back	20mm	Ant 5	-	Full power	64	5320	1	18.02	20.00	1.578	89.10	1.122	0.01	0.369	0.653
	WLAN5.5GHz	802.11a 6Mbps	Front	5mm	Ant 5	-	Reduced	116	5580	1	14.77	16.00	1.327	89.10	1.122	-0.18	0.230	0.343
28	WLAN5.5GHz	802.11a 6Mbps	Back	5mm	Ant 5	-	Reduced	116	5580	1	14.77	16.00	1.327	89.10	1.122	0.09	0.746	1.111
	WLAN5.5GHz	802.11a 6Mbps	Back	5mm	Ant 5	-	Reduced	132	5660	1	14.61	16.00	1.377	89.10	1.122	0.08	0.649	1.003
	WLAN5.5GHz	802.11a 6Mbps	Front	9mm	Ant 5	-	Full power	116	5580	1	18.53	20.00	1.403	89.10	1.122	0.03	0.302	0.475
	WLAN5.5GHz	802.11a 6Mbps	Back	20mm	Ant 5	-	Full power	116	5580	1	18.53	20.00	1.403	89.10	1.122	-0.08	0.432	0.680
	WLAN5.8GHz	802.11a 6Mbps	Front	5mm	Ant 5	-	Reduced	157	5785	1	14.62	16.00	1.374	89.10	1.122	0.14	0.184	0.284
	WLAN5.8GHz	802.11a 6Mbps	Back	5mm	Ant 5	-	Reduced	157	5785	1	14.62	16.00	1.374	89.10	1.122	-0.05	0.561	0.865
29	WLAN5.8GHz	802.11a 6Mbps	Back	5mm	Ant 5	-	Reduced	165	5825	1	14.48	16.00	1.419	89.10	1.122	0.06	0.631	1.005
	WLAN5.8GHz	802.11a 6Mbps	Front	9mm	Ant 5	-	Full power	157	5785	1	18.25	20.00	1.496	89.10	1.122	-0.08	0.341	0.572
	WLAN5.8GHz	802.11a 6Mbps	Back	20mm	Ant 5	-	Full power	165	5825	1	15.31	17.00	1.476	89.10	1.122	0.1	0.245	0.406

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 TEL: +86-512-57900158
 Issued Date : Dec. 13, 2023

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 Report Template No. : 200414



15.4 Product specific 10g SAR

Sasme Sasm	1.216 - 1.334 - 1.315 - 1.340 - 1.191 - 1.189 - 1.303 - 1.374 - 1.189 - 1.189 - 1.189 - 1.374 - 1.387 -	Cole Scaling Factor			Reported 10g SAR (W/kg) 1.532 1.934 2.223 2.025 1.731 1.675
30 GSM850 - - - - - GPRS (2 Tx slots) Back 0mm Ant 1 DSI 5 189 836.4 1 30.65 31.50	1.334 - 1.315 - 1.315 - 1.321 - 1.340 - 1.191 - 1.189 - 1.303 - 1.374 - 1.189 - 1.297 -	-	0.04 -0.02 -0.03 0.02 -0.17 0.06	1.450 1.690 1.540 1.310 1.250	1.934 2.223 2.025 1.731 1.675
31 WCDMA V	1.334 - 1.315 - 1.315 - 1.321 - 1.340 - 1.191 - 1.189 - 1.303 - 1.374 - 1.189 - 1.297 -	-	-0.02 -0.03 0.02 -0.17 0.06	1.450 1.690 1.540 1.310 1.250	1.934 2.223 2.025 1.731 1.675
32 LTE Band 5 10M QPSK 1 0 - Back 0mm Ant 1 DSI 5 20525 836.5 1 22.81 24.00 1 LTE Band 5 10M QPSK 1 0 - Back 0mm Ant 1 DSI 5 20525 836.5 1 22.81 24.00 1 LTE Band 5 10M QPSK 25 0 - Back 0mm Ant 1 DSI 5 20525 836.5 2 22.81 24.00 1 LTE Band 5 10M QPSK 25 0 - Back 0mm Ant 1 DSI 5 20525 836.5 1 21.79 23.00 1 LTE Band 5 10M QPSK 50 0 - Back 0mm Ant 1 DSI 5 20525 836.5 1 21.73 23.00 1 LTE Band 7 20M QPSK 50 0 - Front 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Front 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.35 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.35 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1	1.315 - 1.315 - 1.321 - 1.340 - 1.191 - 1.189 - 1.303 - 1.374 - 1.189 - 1.297 -		-0.03 0.02 -0.17 0.06	1.690 1.540 1.310 1.250	2.223 2.025 1.731 1.675
LTE Band 5 10M QPSK 1 0 - Back 0mm Ant 1 DSI 5 20525 836.5 2 22.81 24.00 1 LTE Band 5 10M QPSK 25 0 - Back 0mm Ant 1 DSI 5 20525 836.5 1 21.79 23.00 1 LTE Band 5 10M QPSK 50 0 - Back 0mm Ant 1 DSI 5 20525 836.5 1 21.73 23.00 1 LTE Band 7 20M QPSK 50 0 - Front 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Front 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.35 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.15 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.15 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.69 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.69 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 100 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 100 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Ban	1.315 - 1.321 - 1.340 - 1.191 - 1.189 - 1.191 - 1.303 - 1.374 - 1.189 - 1.297 -		0.02 -0.17 0.06	1.540 1.310 1.250	2.025 1.731 1.675
LTE Band 5	1.321 - 1.340 - 1.191 - 1.189 - 1.191 - 1.303 - 1.374 - 1.189 - 1.297 -		-0.17 0.06 -0.15	1.310 1.250	1.731 1.675
LTE Band 5 10M QPSK 50 0 - Back 0mm Ant 1 DSI 5 20525 836.5 1 21.73 23.00 1	1.340 - 1.191 - 1.189 - 1.191 - 1.303 - 1.374 - 1.189 - 1.297 -		0.06	1.250	1.675
LTE Band 7 20M QPSK 1 0 - Front 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Front 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 33 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 20850 2510 1 19.35 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.12 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 20850 2510 1 18.37 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.08 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.08 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.69 19.50 1 LTE Band 7 20M QPSK 100 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 D	1.191 - 1.189 - 1.191 - 1.303 - 1.374 - 1.189 - 1.297 -		-0.15		1
LTE Band 7 20M QPSK 1 0 - Front 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 19.74 20.50 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 19.74 20.50 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21050 2535 1 19.12 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21050 2535 1 19.12 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 18.08 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.09 19.50 1 LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK	1.189 - 1.191 - 1.303 - 1.374 - 1.189 - 1.297 -	-		1.020	1 215
LTE Band 7 20M QPSK 50 0 - Front 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 1 19.74 20.50 1 1 17.74 20.50 1 1	1.189 - 1.191 - 1.303 - 1.374 - 1.189 - 1.297 -	-		1.020	1 215
LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 33 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 20850 2510 1 19.35 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 19.12 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 19.12 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 18.08 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.191 - 1.303 - 1.374 - 1.189 - 1.297 -	-	-0.17		1.210
33 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 20850 2510 1 19.35 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 19.12 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.37 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.37 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.08 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.09 19.50 1 LTE Band 7 20M QPSK 100 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 122.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.303 - 1.374 - 1.189 - 1.297 -			0.991	1.178
LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 19.12 20.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 20850 2510 1 18.37 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 18.08 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.69 19.50 1 LTE Band 7 20M QPSK 100 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 19.22 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.374 - 1.189 - 1.297 -	-	-0.04	1.930	2.299
LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 20850 2510 1 18.37 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 18.08 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.69 19.50 1 LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 20850+2510+210+21048 2529.8 1 19.22 20.50 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.189 - 1.297 -		-0.07	2.280	2.971
LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 20850 2510 1 18.37 19.50 1 LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 18.08 19.50 1 LTE Band 7 20M QPSK 100 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.69 19.50 1 LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5	1.297 -	_	0.17	1.670	2.295
LTE Band 7 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 21100 2535 1 18.08 19.50 1 LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.69 19.50 1 LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Back 0mm Ant 2		-	-0.13	1.740	2.068
LTE Band 7 20M QPSK 100 0 - Back 0mm Ant 2 DSI 5 21350 2560 1 18.69 19.50 1 LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7C 20M QPSK 1 99 - Back 0mm Ant 2 DSI 5 <td>1.387 -</td> <td>_</td> <td>-0.13</td> <td>1.890</td> <td>2.452</td>	1.387 -	_	-0.13	1.890	2.452
LTE Band 7 20M QPSK 1 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 99 - Back 0mm Ant 2 DSI 5 20850+ 2510+ 21048 2529.8 1 19.22 20.50 1 LTE Band 7 20M QPSK 1 0 - Front 5mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 20850 2510 1 22.69 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1		_	-0.08	1.420	1.969
LTE Band 7 20M QPSK 50 0 - Left Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.75 19.50 1 LTE Band 7 20M QPSK 1 99 - Back 0mm Ant 2 DSI 5 20850+2510+ 21048 2529.8 1 19.22 20.50 1 LTE Band 7 20M QPSK 1 0 - Front 5mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 20850 2510 1 22.69 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.205 -		0.06	1.590	1.916
LTE Band 7 20M QPSK 1 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 19.74 20.50 1 LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7C 20M QPSK 1 99 - Back 0mm Ant 2 DSI 5 20850+2510+210+210+210+210+210+210+210+210+210+2	1.191 -		-0.03	0.716	0.853
LTE Band 7 20M QPSK 50 0 - Bottom Side 0mm Ant 2 DSI 5 21350 2560 1 18.75 19.50 1 LTE Band 7 C 20M QPSK 1 99 - Back 0mm Ant 2 DSI 5 20850+2510+210+21048 2529.8 1 19.22 20.50 1 LTE Band 7 20M QPSK 1 0 - Front 5mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Left Side 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 9mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.189 -		-0.07	0.709	0.843
LTE Band 7C 20M QPSK 1 99 - Back 0mm Ant 2 DSI 5 20850+2510+210+21048 2529.8 1 19.22 20.50 1 LTE Band 7 20M QPSK 1 0 - Front 5mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 20850 2510 1 22.69 24.00 1 LTE Band 7 20M QPSK 1 0 - Left Side 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 9mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.191 -		0.03	0.904	1.077
LTE Band 7 20M QPSK 1 99 - Back 0mm Ant 2 DSI 3 21048 2529.8 1 19.22 20.50 1 LTE Band 7 20M QPSK 1 0 - Front 5mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 20850 2510 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Left Side 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 9mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.189 -	-	0.15	0.794	0.944
LTE Band 7 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 20850 2510 1 22.69 24.00 1 LTE Band 7 20M QPSK 1 0 - Left Side 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 9mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.343 -	-	0.05	2.010	2.699
LTE Band 7 20M QPSK 1 0 - Left Side 7mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1 LTE Band 7 20M QPSK 1 0 - Bottom Side 9mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.409 -	-	0.02	0.725	1.022
LTE Band 7 20M QPSK 1 0 - Bottom Side 9mm Ant 2 DSI 4 21350 2560 1 22.51 24.00 1	1.352 -	-	-0.07	1.010	1.366
	1.409 -	-	-0.03	0.599	0.844
LTE Band 41 20M QPSK 1 0 - Front 0mm Ant 2 DSI 5 40620 2593 1 22.14 23.50 1	1.409 -	-	0.03	0.190	0.268
	1.368 62.	.9 1.006	-0.06	0.963	1.325
LTE Band 41 20M QPSK 50 0 - Front 0mm Ant 2 DSI 5 40620 2593 1 21.16 22.50 1	1.361 62.	.9 1.006	0.02	0.718	0.983
LTE Band 41 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 40620 2593 1 22.14 23.50 1	1.368 62.	.9 1.006	-0.05	1.700	2.339
34 LTE Band 41 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 39750 2506 1 21.91 23.50 1	1.442 62.	.9 1.006	0.09	2.130	3.090
LTE Band 41 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 39750 2506 2 21.91 23.50 1	1.442 62.	.9 1.006	0.06	1.950	2.829
LTE Band 41 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 40185 2549.5 1 21.98 23.50 1	1.419 62.	.9 1.006	0.08	1.880	2.684
	1.396 62.	_	0.16	1.690	2.374
LTE Band 41 20M QPSK 1 0 - Back 0mm Ant 2 DSI 5 41490 2680 1 21.90 23.50 1	1.445 62.	.9 1.006	0.01	1.560	2.268
LTE Band 41 20M QPSK 50 0 - Back 0mm Ant 2 DSI 5 40620 2593 1 21.16 22.50 1	1.361 62.	.9 1.006	-0.16	1.500	2.054
	1.442 62.	+	0.1	1.570	2.278
	1.406 62.	_	-0.04	1.360	1.924
	1.406 62.	_	-0.01	1.270	1.796
	1.439 62.	+	0.06	1.290	1.867
	1.368 62.		-0.11	1.310	1.802
	1.368 62.	-	-0.06	1.520	2.091
	1.442 62.	+	-0.15		2.524
	1.419 62.	_	0.03	1.480	2.113
	1.396 62.	+	-0.13	1.220	1.714
	1.445 62.	-	0.16	1.100	1.600
	1.361 62.	+	-0.15	0.955	1.308
	1.368 62.	+	-0.09	0.970	1.335
	1.368 62.	-	0.07	0.736	1.013
39750+ 2506+			0.11	0.559	0.766
LTE Band 41C 20M QPSK 1 99 - Back 0mm Ant 2 DSI 5 397304 2525.8 1 21.80 23.50 1	1.361 62.	.9 1.006	0.07	2.000	2.976
LTE Band 41 20M QPSK 1 0 - Front 5mm Ant 2 DSI 4 40620 2593 1 22.61 24.00 1	1.479 62.		1		1

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SPORTON	LTE Band 41 20M QPSK 1 0 - Back 7mm Ant 2 DSI 4 39750 2506 1 22.45 24.00 1.429 62.9 1.006 0.01 0.717 1.031 LTE Band 41 20M QPSK 1 0 - Left Side 7mm Ant 2 DSI 4 39750 2506 1 22.45 24.00 1.429 62.9 1.006 0.03 0.522 0.750																			
LTE Band 41	20M	QPSK	1	0	-	Back	7mm	Ant 2	DSI 4	39750	2506	1	22.45	24.00	1.429	62.9	1.006	0.01	0.717	1.031
LTE Band 41	20M	QPSK	1	0	-	Left Side	7mm	Ant 2	DSI 4	39750	2506	1	22.45	24.00	1.429	62.9	1.006	0.03	0.522	0.750
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	9mm	Ant 2	DSI 4	40620	2593	1	22.61	24.00	1.377	62.9	1.006	-0.08	0.121	0.168

Plot	Band	Mode	Test	Gap	Antenna	Power	Ch.	Freq.	Sample		Tune-Up Limit	Tune-up Scaling	Duty Cycle	Duty Cycle	Drift	Measured 10g SAR	
No.			Position	(mm)		State		(MHz)		(dBm)	(dBm)	Factor	%	Scaling Factor	(dB)	(W/kg)	(W/kg)
						١	NLA	N&BT	•								
35	WLAN2.4GHz	802.11g 6Mbps	Back	0mm	Ant 5	Full power	2	2417	1	19.83	21.50	1.469	88.68	1.128	-0.03	0.791	1.311
	WLAN2.4GHz	802.11g 6Mbps	Back	0mm	Ant 5	Full power	2	2417	2	19.83	21.50	1.469	88.68	1.128	0.06	0.713	1.181
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 5	Full power	44	5220	1	18.48	20.00	1.419	89.10	1.122	0.01	1.190	1.895
36	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full power	44	5220	1	18.48	20.00	1.419	89.10	1.122	0.03	2.000	3.184
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full power	44	5220	2	18.48	20.00	1.419	89.10	1.122	0.02	1.910	3.041
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full power	36	5180	1	15.93	17.50	1.435	89.10	1.122	0.06	1.130	1.820
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full power	48	5240	1	18.05	20.00	1.567	89.10	1.122	0.01	1.650	2.901
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full power	40	5200	1	18.42	20.00	1.439	89.10	1.122	0.07	1.900	3.067
	WLAN5.2GHz	802.11n-HT20 MCS0	Top Side	0mm	Ant 5	Full power	40	5200	1	18.48	20.00	1.419	86.81	1.152	0.03	1.820	2.975
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 5	Reduced	60	5300	1	17.60	19.00	1.380	89.10	1.122	-0.18	0.435	0.674
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 5	Reduced	60	5300	1	17.60	19.00	1.380	89.10	1.122	0.03	0.984	1.524
	WLAN5.3GHz	802.11a 6Mbps	Left Side	0mm	Ant 5	Reduced	60	5300	1	17.60	19.00	1.380	89.10	1.122	-0.15	0.017	0.026
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 5	Reduced	60	5300	1	17.60	19.00	1.380	89.10	1.122	0.11	0.230	0.356
37	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	60	5300	1	17.60	19.00	1.380	89.10	1.122	0.02	1.690	2.617
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	60	5300	2	17.60	19.00	1.380	89.10	1.122	0.05	1.670	2.586
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	64	5320	1	17.46	19.00	1.426	89.10	1.122	-0.17	1.530	2.447
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 5	Reduced	116	5580	1	17.58	19.00	1.387	89.10	1.122	-0.08	0.461	0.717
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 5	Reduced	116	5580	1	17.58	19.00	1.387	89.10	1.122	-0.04	0.972	1.512
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 5	Reduced	116	5580	1	17.58	19.00	1.387	89.10	1.122	-0.08	0.021	0.033
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5	Reduced	116	5580	1	17.58	19.00	1.387	89.10	1.122	0.17	0.189	0.294
38	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	116	5580	1	17.58	19.00	1.387	89.10	1.122	0.05	2.010	3.127
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	116	5580	2	17.58	19.00	1.387	89.10	1.122	0.06	1.870	2.910
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	132	5660	1	17.54	19.00	1.400	89.10	1.122	-0.04	1.870	2.937
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	100	5500	1	17.38	19.00	1.452	89.10	1.122	0.08	1.720	2.802
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	124	5620	1	17.42	19.00	1.439	89.10	1.122	0.01	1.920	3.100
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	140	5700	1	15.12	16.50	1.374	89.10	1.122	0.03	0.988	1.523
	WLAN5.5GHz	802.11n-HT20 MCS0	Top Side	0mm	Ant 5	Reduced	116	5580	1	17.52	19.00	1.406	86.81	1.152	-0.08	1.840	2.980
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 5	Reduced	157	5785	1	17.39	19.00	1.449	89.10	1.122	0.05	0.622	1.011
39	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	157	5785	1	17.39	19.00	1.449	89.10	1.122	0.07	1.850	3.007
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	157	5785	2	17.39	19.00	1.449	89.10	1.122	0.02	1.790	2.910
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	165	5825	1	15.31	17.00	1.476	89.10	1.122	-0.12	0.930	1.540
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Reduced	149	5745	1	15.76	17.50	1.493	89.10	1.122	0.02	1.120	1.876
	WLAN5.8GHz	802.11n-HT20 MCS0	Top Side	0mm	Ant 5	Reduced	157	5785	1	17.35	19.00	1.462	86.81	1.152	0.02	1.760	2.965

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15.5 Repeated SAR Measurement

<1g>

PI No		Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position			Ch.	Freq. (MHz)	Sample	Average Power (dBm)		Tune-up Scaling Factor	Cycle		Drift	Measured 1g SAR (W/kg)		Reported 1g SAR (W/kg)
18	st LTE	Band 5	10M	QPSK	1	0	-	Back	5mm	DSI 3	20525	836.5	1	22.81	24.00	1.315	-	-	0.07	1.090	1	1.434
2r	d LTE	Band 5	10M	QPSK	1	0	-	Back	5mm	DSI 3	20525	836.5	1	22.81	24.00	1.315	1	-	0.01	1.080	1.009	1.420
18	t LTE	Band 41	20M	QPSK	1	0	-	Back	5mm	DSI 3	39750	2506	1	19.42	21.00	1.439	62.9	1.006	0.05	0.994	1	1.439
2r	d LTE	Band 41	20M	QPSK	1	0	-	Back	5mm	DSI 3	39750	2506	1	19.42	21.00	1.439	62.9	1.006	0.02	0.985	1.009	1.426
15	st WLA	N2.4GHz	1	-	-	1	802.11g 6Mbps	Back	5mm	Reduced	2	2417	1	18.70	20.50	1.514	88.68	1.128	-0.01	0.845	1	1.443
2r	d WLA	N2.4GHz	-	-	-	-	802.11g 6Mbps	Back	5mm	Reduced	2	2417	1	18.70	20.50	1.514	88.68	1.128	0.03	0.823	1.027	1.405

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<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)			Tune-Up Limit (dBm)	Tune-up Scaling Factor	Comin		Duilde	Measured 10g SAR (W/kg)		Reported 10g SAR (W/kg)
1st	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	DSI 5	20850	2510	1	19.35	20.50	1.303	-	-	-0.07	2.280	1	2.971
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	DSI 5	20850	2510	1	19.35	20.50	1.303	-	-	0.06	2.250	1.013	2.932
1st	WLAN5.2GHz	-	-	-	-	802.11a 6Mbps	Top Side	0mm	Full power	44	5220	1	18.48	20.00	1.419	89.10	1.122	0.03	2.000	1	3.184
2nd	WLAN5.2GHz	-	-	-	-	802.11a 6Mbps	Top Side	0mm	Full power	44	5220	1	18.48	20.00	1.419	89.10	1.122	0.01	1.980	1.010	3.153
1st	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Top Side	0mm	Reduced	116	5580	1	17.58	19.00	1.387	89.10	1.122	0.05	2.010	1	3.127
2nd	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Top Side	0mm	Reduced	116	5580	1	17.58	19.00	1.387	89.10	1.122	0.03	1.990	1.010	3.096

General Note:

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

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16. Simultaneous Transmission Analysis

			Mobile Cell	ular Phone	
NO.	Simultaneous Transmission Configurations	Head	Body	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes

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General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), and LTE supports VoLTE function.
- 2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 3. This device WLAN 2.4GHz supports hotspot operation and Bluetooth support tethering applications.
- 4. This device 2.4GHz WLAN/ 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- 5. According to the EUT characteristic, WLAN 5GHz and Bluetooth can't transmit simultaneously.
- 6. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz cannot transmit simultaneously.
- 7. WLAN 2.4GHz and Bluetooth share the same antenna and they cannot transmit simultaneously.
- 8. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- 9. When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
- 10. The maximum SAR summation is calculated based on the same configuration and test position.
- 11. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04 for 1g SAR and SPLSR≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.</p>
 - v) The SPLSR calculated results please refer to section 16.5.

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16.1 Head Exposure Conditions

		1	2	3	4	1+2	1+3	1+4	
WWAN Band	Exposure Position	WWAN	WLAN2.4GHz Ant 5	Bluetooth Ant 5	WLAN5GHz Ant 5	Summed	Summed	Summed	Case No
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
	Right Cheek	0.349	0.331	0.013	0.640	0.68	0.36	0.99	
GSM850 Ant 1	Right Tilted	0.224	0.299	0.007	0.858	0.52	0.23	1.08	
GSIVIOSO ATIL T	Left Cheek	0.330	1.376	0.111	0.919	1.71	0.44	1.25	1
	Left Tilted	0.130	0.536	0.076	1.137	0.67	0.21	1.27	
	Right Cheek	0.357	0.331	0.013	0.640	0.69	0.37	1.00	
WCDMA V Ant 1	Right Tilted	0.193	0.299	0.007	0.858	0.49	0.20	1.05	
WCDIVIA V AIIL I	Left Cheek	0.312	1.376	0.111	0.919	1.69	0.42	1.23	2
	Left Tilted	0.179	0.536	0.076	1.137	0.72	0.26	1.32	
	Right Cheek	0.233	0.331	0.013	0.640	0.56	0.25	0.87	
LTE Band 5 Ant	Right Tilted	0.130	0.299	0.007	0.858	0.43	0.14	0.99	
1	Left Cheek	0.204	1.376	0.111	0.919	1.58	0.32	1.12	
	Left Tilted	0.121	0.536	0.076	1.137	0.66	0.20	1.26	
	Right Cheek	0.426	0.331	0.013	0.640	0.76	0.44	1.07	
LTE Band 7 Ant	Right Tilted	0.377	0.299	0.007	0.858	0.68	0.38	1.24	
2	Left Cheek	1.101	1.376	0.111	0.919	2.48	1.21	2.02	3/4
	Left Tilted	0.334	0.536	0.076	1.137	0.87	0.41	1.47	
	Right Cheek	0.258	0.331	0.013	0.640	0.59	0.27	0.90	
LTE Band 41 Ant	Right Tilted	0.256	0.299	0.007	0.858	0.56	0.26	1.11	
2	Left Cheek	0.520	1.376	0.111	0.919	1.90	0.63	1.44	5
	Left Tilted	0.201	0.536	0.076	1.137	0.74	0.28	1.34	

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16.2 Hotspot Exposure Conditions

		1	2	3	4	1+2	1+3	1+4	
WWAN Band	Exposure Position	WWAN	WLAN2.4GHz Ant 5	Bluetooth Ant 5	WLAN5GHz Ant 5	Summed	Summed	Summed	Case No
Bana	1 301.1311	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
	Front	0.527	0.259	0.044	0.181	0.79	0.57	0.71	
	Back	1.203	1.443	0.138	0.540	2.65	1.34	1.74	1/2
GSM850 Ant	Left side	0.417	0.062	0.021	0.037	0.48	0.44	0.45	
1	Right side	0.497	0.449	0.073	0.159	0.95	0.57	0.66	
	Top side		0.411	0.058	1.039	0.41	0.06	1.04	
	Bottom side	0.201				0.20	0.20	0.20	
	Front	0.644	0.259	0.044	0.181	0.90	0.69	0.83	
	Back	1.423	1.443	0.138	0.540	2.87	1.56	1.96	3/4
WCDMA V	Left side	0.535	0.062	0.021	0.037	0.60	0.56	0.57	
Ant 1	Right side	0.580	0.449	0.073	0.159	1.03	0.65	0.74	
	Top side		0.411	0.058	1.039	0.41	0.06	1.04	
	Bottom side	0.200				0.20	0.20	0.20	
	Front	0.673	0.259	0.044	0.181	0.93	0.72	0.85	
	Back	1.434	1.443	0.138	0.540	2.88	1.57	1.97	5/6
LTE Band 5	Left side	0.631	0.062	0.021	0.037	0.69	0.65	0.67	
Ant 1	Right side	0.701	0.449	0.073	0.159	1.15	0.77	0.86	
	Top side		0.411	0.058	1.039	0.41	0.06	1.04	
	Bottom side	0.263				0.26	0.26	0.26	
	Front	0.355	0.259	0.044	0.181	0.61	0.40	0.54	
	Back	1.250	1.443	0.138	0.540	2.69	1.39	1.79	7/8
LTE Band 7	Left side	0.413	0.062	0.021	0.037	0.48	0.43	0.45	
Ant 2	Right side	0.051	0.449	0.073	0.159	0.50	0.12	0.21	
	Top side		0.411	0.058	1.039	0.41	0.06	1.04	
	Bottom side	0.276				0.28	0.28	0.28	
	Front	0.576	0.259	0.044	0.181	0.84	0.62	0.76	
	Back	1.439	1.443	0.138	0.540	2.88	1.58	1.98	9/10
LTE Band	Left side	1.020	0.062	0.021	0.037	1.08	1.04	1.06	
41 Ant 2	Right side	0.089	0.449	0.073	0.159	0.54	0.16	0.25	
	Top side		0.411	0.058	1.039	0.41	0.06	1.04	
	Bottom side	0.359				0.36	0.36	0.36	

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16.3 Body-Worn Accessory Exposure Conditions

		1	2	3	4	1+2	1+3	1+4	
WWAN Band	Exposure Position	WWAN	WLAN2.4GHz Ant 5	Bluetooth Ant 5	WLAN5GHz Ant 5	Summed	Summed	Summed	Case No
	1 0311011	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850 Ant 1	Front	0.527	0.259	0.044	0.416	0.79	0.57	0.94	
GSIVIOSU ATIL I	Back	1.203	1.443	0.138	1.157	2.65	1.34	2.36	1/2
\\(CD\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Front	0.644	0.259	0.044	0.416	0.90	0.69	1.06	
WCDMA V Ant 1	Back	1.423	1.443	0.138	1.157	2.87	1.56	2.58	3/4
LTE Band 5 Ant 1	Front	0.673	0.259	0.044	0.416	0.93	0.72	1.09	
LIE Band 5 Ant 1	Back	1.434	1.443	0.138	1.157	2.88	1.57	2.59	5/6
LTE Band 7 Ant 2	Front	0.355	0.259	0.044	0.416	0.61	0.40	0.77	
LTE BAIRU / ARR 2	Back	1.250	1.443	0.138	1.157	2.69	1.39	2.41	7/8
LTE Band 41 Ant 2	Front	0.576	0.259	0.044	0.416	0.84	0.62	0.99	
LIE Dand 41 Ant 2	Back	1.439	1.443	0.138	1.157	2.88	1.58	2.60	9/10

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Sensor-off

		1	2	4	1+2	1+4
WWAN Band	Exposure Position	WWAN	WLAN2.4GHz Ant5	WLAN5GHz Ant 5	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 7 Ant 2	Front	0.994	0.429	0.572	1.42	1.57
LTE Ballu / Alli 2	Back	0.411	0.187	0.680	0.60	1.09
LTE Rand 41 Apt 2	Front	0.531	0.429	0.572	0.96	1.10
LTE Band 41 Ant 2	Back	0.302	0.187	0.680	0.49	0.98

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16.4 Product specific 10g SAR Exposure Conditions

		1	2	3	4	1+2+4	1+3+4	
WWAN Band	Exposure Position	WWAN	WLAN2.4GHz Ant 5	WLAN5GHz Ant 5	NFC	Summed	Summed	Case No
	1 0314011	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
	Front			0.717	0.001	0.00	0.72	
	Back	1.532	1.311	1.895	0.016	2.86	3.44	
GSM850 Ant 1	Left side			0.033	0.001	0.00	0.03	
GSIVIOSO ATIL T	Right side			0.356	0.001	0.00	0.36	
	Top side			3.184	0.001	0.00	3.19	
	Bottom side				0.001	0.00	0.00	
	Front			0.717	0.001	0.00	0.72	
	Back	1.934	1.311	1.895	0.016	3.26	3.85	
WCDMA V Ant	Left side			0.033	0.001	0.00	0.03	
1	Right side			0.356	0.001	0.00	0.36	
	Top side			3.184	0.001	0.00	3.19	
	Bottom side				0.001	0.00	0.00	
	Front			0.717	0.001	0.00	0.72	
	Back	2.223	1.311	1.895	0.016	3.55	4.13	1
LTE Band 5	Left side			0.033	0.001	0.00	0.03	
Ant 1	Right side			0.356	0.001	0.00	0.36	
	Top side			3.184	0.001	0.00	3.19	
	Bottom side				0.001	0.00	0.00	
	Front	1.215		0.717	0.001	1.22	1.93	
	Back	2.971	1.311	1.895	0.016	4.30	4.88	2/3
LTE Band 7	Left side	0.853		0.033	0.001	0.85	0.89	
Ant 2	Right side			0.356	0.001	0.00	0.36	
	Top side			3.184	0.001	0.00	3.19	
	Bottom side	1.077			0.001	1.08	1.08	
	Front	1.325		0.717	0.001	1.33	2.04	
[Back	3.090	1.311	1.895	0.016	4.42	5.00	4/5
LTE Band 41	Left side	2.524		0.033	0.001	2.53	2.56	
Ant 2	Right side			0.356	0.001	0.00	0.36	
	Top side			3.184	0.001	0.00	3.19	
	Bottom side	1.013			0.001	1.01	1.01	

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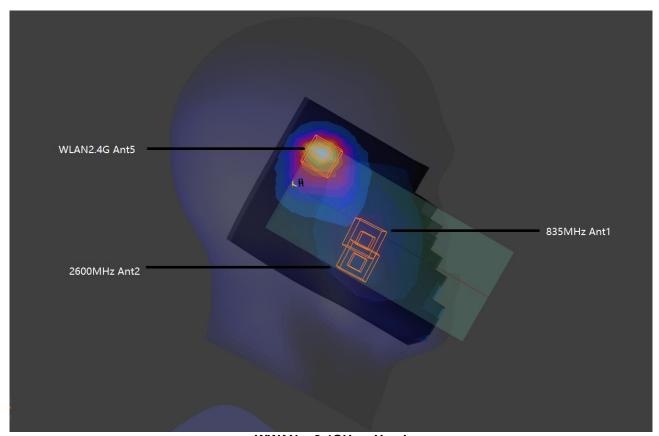
16.5 SPLSR Evaluation and Analysis

General Note:

1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.

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- 2. SPLSR = (SAR1 + SAR2)1.5 / (min. separation distance, mm). If SPLSR \leq 0.04 for 1g SAR and SPLSR \leq 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.
- 3. Per April 2022 TCB Workshop Notes, NFC antenna was summed algebraically with BT/WIFI Antenna 5 separately for the purposes of hybrid SPLSR combination and they are located at the top of the device.

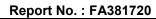


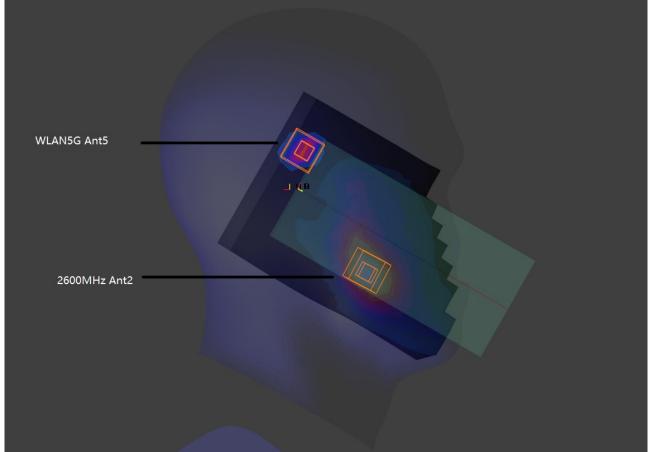
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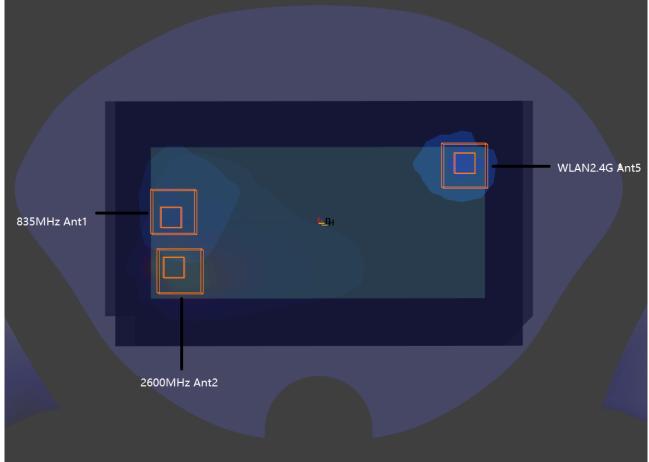


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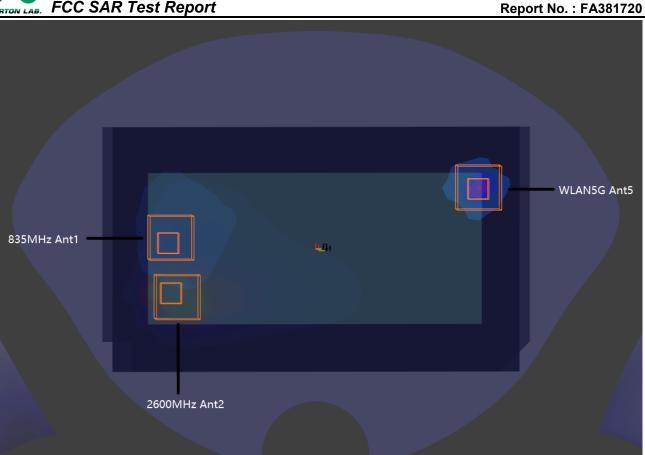
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WWAN + 2.4GHz _ Body-worn&Hotspot

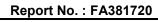
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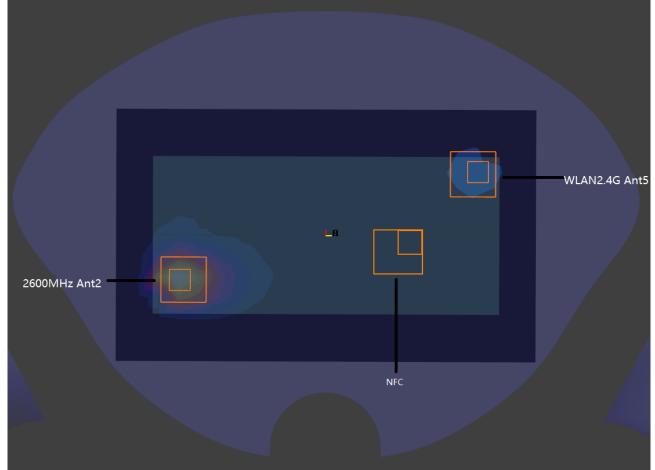


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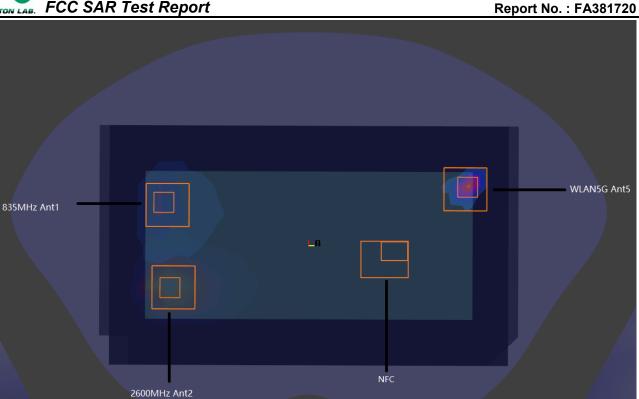
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WWAN + WLAN 2.4GHz +NFC _ Extremity

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WWAN + WLAN 5GHz +NFC _ Extremity

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	Band	Position	SAR (W/kg)	Gap	SAR	eak locat	ion (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 1	Dallu	Position	SAR (W/kg)	(mm)	Х	Y	Z	(mm)	(W/kg)	Results	SAR
Oase I	GSM850 Ant 1	Left	0.33	0mm	58.2	268.3	-172.2	72.2	1.71	0.03	Not required
	WLAN2.4GHz Ant 5	Cheek	1.376	0mm	28.6	334.1	-174.5	12.2	1.7 1	0.03	Not required
	Band	Position	SAR (W/kg)	Gap	SAR p	eak locat	ion (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 2	Ballu	FUSITION	SAR (W/kg)	(mm)	Х	Y	Z	(mm)	(W/kg)	Results	SAR
	WCDMA V Ant 1	Left	0.312	0mm	56.9	269	-172.3	71.0	1.69	0.03	Not required
	WLAN2.4GHz Ant 5	Cheek	1.376	0mm	28.6	334.1	-174.5	71.0	1.09	0.03	Not required
Case 3	Band	Position	SAR (W/kg)	Gap	SAR p	eak locat	ion (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 3	Ballu	FUSITION	SAR (W/kg)	(mm)	Х	Y	Z	(mm)	(W/kg)	Results	SAR
_	LTE Band 7 Ant 2	Left	1.101	0mm	53.4	250.3	-174.5	87.4	2.48	0.04	Not required
	WLAN2.4GHz Ant 5	Cheek	1.376	0mm	28.6	334.1	-174.5	07.4	2.40	0.04	Not required
	Band	Position	SAR (W/kg)	Gap	SAR p	eak locat	ion (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 4	Ballu	FUSITION	SAR (W/kg)	(mm)	Х	Y	Z	(mm)	(W/kg)	Results	SAR
Case 4	LTE Band 7 Ant 2	Left	1.101	0mm	53.4	250.3	-174.5	94.1	2.02	0.03	Not required
Case 5	WLAN5GHz Ant 5	Cheek	0.919	0mm	10.5	334	-170.5	94.1	2.02	0.03	Not required
	Band	Position	SAR (W/kg)	Gap	SAR p	eak locat	ion (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
	Ballu	Position	SAIR (W/kg)	(mm)	Х	Y	Z	(mm)	(W/kg)	Results	SAR
oase 3	LTE Band 41 Ant 2	Left	0.52	0mm	53	251.6	-174.7	86.0	1.90	0.03	Not required
	WLAN2.4GHz Ant 5	Cheek	1.376	0mm	28.6	334.1	-174.5	00.0	1.50	0.03	Not required

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For Hotspot

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	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 1			- Jana (Ming)	(mm)	X	Y	Z	(mm)	(W/kg)	Results	SAR
	GSM850 Ant 1	Back	1.203	5mm	-33.8	-78.1	-207	150.2	2.65	0.03	Not required
	WLAN2.4GHz Ant 5	Daok	1.443	5mm	-56	70.5	-207			0.00	Tiotroquilou
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 2			57 (177.1g)	(mm)	X	Υ	Z	(mm)	(W/kg)	Results	SAR
54552	GSM850 Ant 1	Back	1.203	5mm	-33.8	-78.1	-207	157.8	1.74	0.01	Not required
	WLAN5GHz Ant 5	Buok	0.54	5mm	-53.9	78.4	-207			0.01	Hotroquilou
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 3	Barra	1 doition	Orac (Tirring)	(mm)	X	Y	Z	(mm)	(W/kg)	Results	SAR
ouse o	WCDMA V Ant 1	Back	1.423	5mm	-35.3	-78.1	-207	150.0	2.87	0.03	Not required
	WLAN2.4GHz Ant 5	Dack	1.443	5mm	-56	70.5	-207		2.01	0.03	Not required
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 4	Ballu	Position	JAK (W/kg)	(mm)	X	Υ	Z	(mm)	(W/kg)	Results	SAR
Case 4	WCDMA V Ant 1	Back	1.423	5mm	-35.3	-78.1	-207	157.6	1.96	0.02	Not required
	WLAN5GHz Ant 5	Dack	0.54	5mm	-53.9	78.4	-207	137.0	1.90	0.02	Not required
	Band LTE Band 5 Ant 1	Docition	SAB (M/kg)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
Case 5	Dano	Position	SAR (W/kg)	(mm)	Х	Υ	Z	(mm)	(W/kg)	Results	SAR
Case 5	LTE Band 5 Ant 1	Dools	1.434	5mm	-35.3	-77.1	-207	140.0	2.00	0.02	Not required
	WLAN2.4GHz Ant 5	Back	1.443	5mm	-56	70.5	-207	149.0	2.88	0.03	Not required
	Pond -	Docition	SAR (M/len)	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
Cooo	Band	Position	SAR (W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 6	LTE Band 5 Ant 1	Deal	1.434	5mm	-35.3	-77.1	-207		4.07	0.00	Net assessing 1
	WLAN5GHz Ant 5	Back	0.54	5mm	-53.9	78.4	-207	156.6	1.97	0.02	Not required
	Donal	Danition	CAR (M/Ism)	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
0	Band	Position	SAR (W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 7	LTE Band 7 Ant 2	D. I	1.25	5mm	-2	-75.5	-207			0.00	Net 1
	WLAN2.4GHz Ant 5	Back	1.443	5mm	-56	70.5	-207	155.7	2.69	0.03	Not required
		D	CAR MAIL	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
0 0	Band	Position	SAR (W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 8	LTE Band 7 Ant 2	5 .	1.25	5mm	-2	-75.5	-207			0.04	
	WLAN5GHz Ant 5	Back	0.54	5mm	-53.9	78.4	-207	162.4	1.79	0.01	Not required
			0.4.5. (44/1)	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
	Band	Position	SAR (W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 9	LTE Band 41 Ant 2	5 .	1.439	5mm	0.5	-76	-207		, ,,	0.55	
	WLAN2.4GHz Ant 5	Back	1.443	5mm	-56	70.5	-207	157.0	2.88	0.03	Not required
			0.5	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
	Band	Position	SAR (W/kg)	(mm)	х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 10	LTE Band 41 Ant 2		1.439	5mm	0.5	-76	-207		, ,,		
	WLAN5GHz Ant 5	Back	0.54	5mm	-53.9	78.4	-207	163.7	1.98	0.02	Not required

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FCC SAR Test Report

For Body 3D Summed SAR Gap SAR peak location (mm) **SPLSR** Simultaneous Band **Position** SAR (W/kg) distance Results SAR х z (mm) (W/kg) (mm) Case 1 GSM850 Ant 1 -33.8 -78.1 1.203 5mm -207 Back 150.2 2.65 0.03 Not required WLAN2.4GHz Ant 5 1.443 -207 5mm -56 70.5 3D Summed Gap SAR peak location (mm) **SPLSR** Simultaneous SAR SAR (W/kg) SAR Band **Position** distance Results X Υ z (mm) (W/kg) (mm) Case 2 GSM850 Ant 1 1.203 5mm -33.8 -78.1 -207 157.8 2.36 0.02 Not required Back WLAN5GHz Ant 5 1.157 5mm -53.9 78.4 -207 SAR peak location (mm) 3D Summed Gap **SPLSR** Simultaneous Band **Position** SAR (W/kg) distance SAR SAR Results Х Υ (mm) z (W/kg) (mm) Case 3 WCDMA V Ant 1 -35.3 1.423 5mm -78.1 -207 Back 150.0 2.87 0.03 Not required WLAN2.4GHz Ant 5 1.443 -56 70.5 5mm -207 SAR peak location (mm) Gap **SPLSR** Simultaneous SAR (W/kg) **Band Position** distance SAR Results (mm) Υ z (W/kg) (mm) Case 4 WCDMA V Ant1 1.423 5mm -35.3 -78.1 -207 157 6 0.03 Back 2 58 Not required WLAN5GHz Ant 5 1.157 -53.9 78.4 -207 5mm 3D Summed SAR Gap SAR peak location (mm) **SPLSR** Simultaneous Band **Position** SAR (W/kg) distance Results SAR X (mm) 7 (W/kg) (mm) Case 5 LTE Band 5 Ant 1 1.434 -35.3 5mm -77.1 -207 149.0 2.88 0.03 Back Not required WLAN2.4GHz Ant 5 1.443 5mm -56 70.5 -207 3D SAR peak location (mm) Summed Gap SPLSR Simultaneous Band **Position** SAR (W/kg) distance (mm) z Results SAR (W/kg) (mm) Case 6 LTE Band 5 Ant 1 1.434 5mm -35.3 -77.1 -207 156.6 2.59 0.03 Back Not required WLAN5GHz Ant 5 1.157 -53.9 78.4 -207 5mm 3D Summed Gap SAR peak location (mm) **SPLSR Simultaneous** distance Band Position SAR (W/kg) SAR Results (mm) z (W/kg) (mm) Case 7 LTE Band 7 Ant 2 1 25 -75 5 -2 -207 5mm Back 155.7 2.69 0.03 Not required WLAN2.4GHz Ant 5 1.443 -56 70.5 -207 5mm SAR peak location (mm) 3D Gap SPLSR Simultaneous SAR (W/kg) **Band Position** distance SAR Results SAR (mm) (mm) (W/kg) Case 8 LTE Band 7 Ant 2 1.25 -75.5 5mm -2 -207 Back 162 4 241 0.02 Not required WLAN5GHz Ant 5 1.157 5mm -53 9 78 4 -207

Gap

(mm)

5mm

5mm

Gap

(mm)

5mm

5mm

X

0.5

-56

X

0.5

-53.9

SAR (W/kg)

1.439

1.443

SAR (W/kg)

1.439

1.157

Position

Back

Position

Back

SAR peak location (mm)

70.5

SAR peak location (mm)

Υ

-76

78.4

Z

-207

-207

z

-207

-207

3D

distance

(mm)

157.0

3D

distance

(mm)

163.7

Summed SAR

(W/kg)

2.88

Summed

SAR

(W/kg)

2.60

SPLSR

Results

0.03

SPLSR

Results

0.03

Simultaneous

SAR

Not required

Simultaneous

SAR

Not required

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Band

LTE Band 41 Ant 2

WLAN2.4GHz Ant 5

Band

LTE Band 41 Ant 2

WLAN5GHz Ant 5

Case 9

Case 10

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T OI EX	tremity Band	Position	SAR (W/kg)	Gap SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous	
				(mm)	X	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 1	LTE Band 5 Ant 1	Back	2.223	0mm	-48.9	-75.9	-207	153.6	4.13	0.05	Not required
	WLAN5GHz Ant 5		1.895	0mm	-53.1	77.6	-207				
	NFC		0.016	0mm							
	LTE Band 5 Ant 1	Back	2.223	0mm	-48.9	-75.9	-207	148.7	4.13	0.06	Not required
	WLAN5GHz Ant 5		1.895	0mm							
	NFC		0.016	0mm	14.3	55.3	-177				
Case 2	Band	Position	SAR (W/kg)	Gap	SAR peak location (m		n (mm)	3D	Summed	SPLSR	Simultaneous
				(mm)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results	SAR
	LTE Band 7 Ant 2	Back	2.971	0mm	-4	-76	-207	157.3	4.30	0.06	Not required
	WLAN2.4GHz Ant 5		1.311	0mm	-61.7	70.3	-207				
	NFC		0.016	0mm							
	LTE Band 7 Ant 2	Back	2.971	0mm	-4	-76	-207	135.9	4.30	0.07	Not required
	WLAN2.4GHz Ant 5		1.311	0mm							
	NFC		0.016	0mm	14.3	55.3	-177				
Case 3	Band	Position	SAR (W/kg)	Gap	SAR pe	SAR peak location (mm)		3D		SPLSR	Simultaneous
				(mm)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results	SAR
	LTE Band 7 Ant 2	Back	2.971	0mm	-4	-76	-207	161.3	4.88	0.07	Not required
	WLAN5GHz Ant 5		1.895	0mm	-53.1	77.6	-207				
	NFC		0.016	0mm							
	LTE Band 7 Ant 2	Back	2.971	0mm	-4	-76	-207	135.9	4.88	0.08	Not required
	WLAN5GHz Ant 5		1.895	0mm							
	NFC		0.016	0mm	14.3	55.3	-177				
Case 4	Band	Position	SAR (W/kg)	Gap	SAR pe	peak location (mm)		3D distance	Summed SAR	SPLSR	Simultaneous
				(mm)	X	Υ	Z	(mm)	(W/kg)	Results	SAR
	LTE Band 41 Ant 2	Back	3.09	0mm	-2	-75.5	-207	157.5	4.42	0.06	Not required
	WLAN2.4GHz Ant 5		1.311	0mm	-61.7	70.3	-207				
	NFC		0.016	0mm							
	LTE Band 41 Ant 2	Back	3.09	0mm	-2	-75.5	-207	220.3	4.42	0.04	Not required
	WLAN2.4GHz Ant 5		1.311	0mm							
	NFC		0.016	0mm							
Case 5	Band	Position	SAR (W/kg)	Gap	SAR peak location		n (mm)	3D distance	Summed SAR	SPLSR	Simultaneous
				(mm)	X	Y	Z	(mm)	(W/kg)	Results	SAR
	LTE Band 41 Ant 2	Back	3.09	0mm	-2	-75.5	-207	161.4	5.00	0.07	Not required
	WLAN5GHz Ant 5		1.895	0mm	-53.1	77.6	-207				
	NFC		0.016	0mm							
	LTE Band 41 Ant 2	Back	3.09	0mm	-2	-75.5	-207	135.2 5.0			Not required
	WLAN5GHz Ant 5		1.895	0mm					5.00	0.08	
	NFC		0.016	0mm	14.3	55.3	-177				

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17. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be \leq 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

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18. References

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