FCC SAR Test Report

Report No. : FA162325

APPLICANT : Motorola Mobility LLC **EQUIPMENT** : Mobile Cellular Phone

BRAND NAME : Motorola MODEL NAME : XT2173-1

FCC ID : IHDT56ZV3

STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International (Kunshan) Inc., 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Nick Hu / Supervisor

Lat Yin

Nick Hu

Approved by: Kat Yin / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

TEL: 86-512-57900158 / FAX: 86-512-57900958

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Revision History

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA162325	Rev. 01	Initial issue of report.	Aug. 27, 2021

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Motorola Mobility LLC,

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3.63

Mobile Cellular Phone, XT2173-1, are as follows.

Mobile Cellular Phone, X12173-1, are as follows.											
	Highest 1g SAR Summary										
Equipment Class	Frequency Band			Head (Separa 0mm	ition	Hotspot (Separation 5mm) 1g SAR (W/kg)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)			
		GSM850		0.31		0.76	0.76	19 57 11 (117119)			
	GS	SM	_	1900	0.19		1.22	1.22			
				nd II	0.30)	1.40	1.40			
	WCE	OMA	Ban	d IV	0.35	<u>, </u>	1.36	1.29			
Licensed			Bar	id V	0.54		1.34	1.34	1.59		
		Band 2		nd 2	0.28	3	1.33	1.33			
				nd 5	d 5 0.53		1.29	1.29			
	LTE		Band 7		0.28		1.35 1.35				
			Band 66	Band 66/ Band 4			1.32	1.32			
DTS	WL	ΛNI	2.4GHz WLAN		2.4GHz WLAN				0.83	0.83	1.58
NII	VVL	AIN	5GHz WLAN		5GHz WLAN		1.17	<u>'</u>	1.19	1.18	1.59
DSS	Bluet			2.4GHz Bluetooth		<u> </u>	0.10	0.10	1.50		
				Н	ighest 10લ્	g SAR	Summary				
Equipme Class					Pr	oduct Specific 10 (Separation		Highest Simultaneous Transmission 10g SAR (W/kg)			
		(GSM	GSM	1900		3.30				
				Ban	id II	3.42					
			CDMA	Ban			3.28				
License				Ban	id V	d V 1.03			3.63		
Licerise				Ban			3.24		0.00		
			LTE	Ban			1.25				
		LIE Ban		nd 7							

Remark: This device supports both LTE B4 and B66. Since the supported frequency span for LTE B4 falls completely within the supports frequency span for LTE B66, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B66.

3.21

1.45

2021/7/20 ~ 2021/7/31

Band 66/ Band 4

5GHz WLAN

Declaration of Conformity:

WLAN

Date of Testing:

NII

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 (Kunshan) Inc. 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 (Kunshan) Inc.						
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158 FAX: +86-512-57900958						
Took Site No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
Test Site No.	SAR06-KS	CN1257	314309				

Applicant 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 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification						
Equipment Name	Mobile Cellular Phone					
Brand Name	Motorola					
Model Name	XT2173-1					
FCC ID	IHDT56ZV3					
IMEI Code	Sample 1: SIM 1: 355302640010451 SIM 2: 355302640010469 Sample 2: 356875840014034 Sample 3: SIM 1: 355302640018694 SIM 2: 355302640018702					
	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 66: 1710 MHz ~ 1780 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.5GHz Band: 5745 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz					
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA/HSUPA DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE					
HW Version	DVT2					
SW Version	RRWB31.Q3-25					
GSM / (E)GPRS	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously					
Transfer mode	but can automatically switch between Packet and Circuit Switched Network.					
EUT Stage	Identical Prototype					
Remark:						

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Remark

- 1. 802.11n-HT40 is not supported in 2.4GHz WLAN.
- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE
 operation.
- 3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- 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).
- 5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
- 6. 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) and the 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

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appendix E.

For some WWAN bands, receiver off/sensor on reduced power level is higher than hotspot reduced power level, so front/back receiver off SAR can represent hotspot conservatively.

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- 8. 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. It is special to declare. 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).
- There are three samples. Please refer to the XT2173-1_Operational Description of Product Equality Declaration exhibit submitted. According to the difference, we chose sample 1 to perform full SAR testing and sample 2/3 verified the worst case of sample 1.
- There are three type batteries, with the same battery capacity, only manufacturer different. So we only chose battery
 1 to perform full SAR testing.
- 11. There are three headsets, only supplier different, so only chose headset 1/2 to perform SAR testing.

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4.2 General LTE SAR Test and Reporting Considerations

Summarize	d necessary ite	ms addres	ssed in KI	DB 94122	25 D05 v02	2r05		
FCC ID	IHDT56ZV3							
Equipment Name	Mobile Cellular	Phone						
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 66: 1710 MHz ~ 1780 MHz							
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz							
uplink modulations used	QPSK / 16QAM	/ 64QAM						
LTE Voice / Data requirements	Voice and Data							
LTE Release Version	R9, Cat4							
CA Support	Not supported							
LTE MPR permanently built-in by design	Table 6.2.3 Modulation QPSK 16 QAM 16 QAM 64 QAM			vidth / Tra 5 MHz > 8 ≤ 8 > 8 ≤ 8	nsmission 10 MHz > 12 ≤ 12 > 12 ≤ 12	bandwidth (15 MHz > 16 ≤ 16 > 16 ≤ 16		MPR (dB) ≤ 1 ≤ 1 ≤ 2 ≤ 2
	64 QAM 256 QAM	> 5	> 4	> 8	> 12 ≥ 1	> 16	> 18	≤ 3 ≤ 5
LTE A-MPR Spectrum plots for RB configuration	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI) A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.							
Power reduction applied to satisfy SAR compliance	Yes, head/body the detail please				igger redu	ced power	for some L	TE bands,

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	Transmission (H, M, L) channel numbers and frequencies in each LTE band												
	LTE Band 2												
	Bandwidth	1.4 MHz	Bandwid	th 3 MHz	Hz Bandwidth 5 MHz		Bandwidt	Bandwidth 10 MHz Bandwid		Bandwidt	h 15 MHz	Bandwid	lth 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch.	Freq. (MHz)	Ch. #	Fre (Mh		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	1862	5 1852.5	18650	18	55	18675	1857.5	18700	1860
М	18900	1880	18900	1880	1890	0 1880	18900	188	80	18900	1880	18900	1880
Н	19193	1909.3	19185	1908.5	1917	5 1907.5	19150	190	05	19125	1902.5	19100	1900
						LTE Ba	nd 4						
	Bandwidth	1.4 MHz	Bandwid	th 3 MHz	Band	width 5 MHz	Bandwidt	h 10 N	ИHz	Bandwidt	h 15 MHz	Bandwid	lth 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch.	Freq. (MHz)	Ch. #	Fre (Mh		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	1997	5 1712.5	20000	17	15	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	2017	5 1732.5	20175	173	2.5	20175	1732.5	20175	1732.5
Н	20393	1754.3	20385	1753.5	2037	5 1752.5	20350	17	50	20325	1747.5	20300	1745
	LTE Band 5												
	Band	dwidth 1.4	width 1.4 MHz Ba		ndwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz				
	Ch. #	Fre	q. (MHz)	Ch. #		Freq. (MHz)	Ch. #	# Freq. (MHz)		Ch. #	Fr	eq. (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	5	847.5	20625	0625 846.5		20600		844	
	_			_		LTE Ba					_		
		idwidth 5 N				10 MHz	Bandwidth 15 MHz			Bandwidth 20 MHz			
	Ch. #		q. (MHz)	Ch. #		Freq. (MHz)	Ch. #			Ch. #		eq. (MHz)	
L	20775		2502.5	20800		2505	20825			2507.5	20850		2510
M	21100		2535	21100		2535	21100				21100		2535
Н	21425	2	2567.5	21400					21350	21350 2560			
	Dan alveidable	4 4 841 1-	Danis alveriale	15 O MILE	Dana	LTE Baı width 5 MHz	1 1	L 40 N	41.1-	Danadooilali	L 45 MH.	Danahai	H- 00 MI I-
	Bandwidth	Freq.	Bandwid	Freq.		Frog	Bandwidt	n 10 k Fre			h 15 MHz Freq.		Ith 20 MHz Freq.
	Ch. #	(MHz)	Ch. #	(MHz)	Ch.	(MHz)	Ch. #	(MF	· Iz)	Ch. #	(MHz)	Ch. #	(MHz)
L	131979	1710.7	131987	1711.5	13199		132022	17		132047	1717.5	132072	1720
M	132322	1745	132322	1745	13232		132322	174		132322	1745	132322	1745
Н	132665	1779.3	132657	1778.5	1326	1777.5	132622	17	75	132597	1772.5	132572	1770

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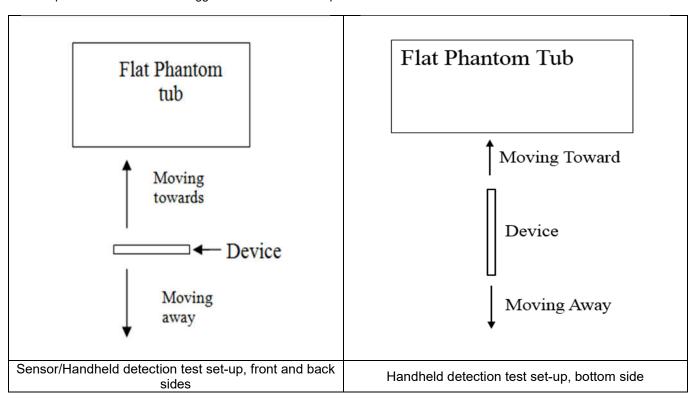
5. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

 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 (5750MHz) and lowest (835MHz) 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. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
- 3. 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.
- 4. 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 side of the device. When front/back/bottom side of handheld condition is detected reduced power will be active.
- 5. 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:



<P-Sensor>

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Proximity Sensor Triggering Distance (mm)							
Docition	Fro	ont	Back				
Position	Moving towards	Moving away	Moving towards	Moving away			
Minimum	16	26	24	33			

<Handheld>

Proximity Sensor Triggering Distance (mm)								
Position	Fro	ont	Ba	ck	Bottom Side			
Position	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away		
Minimum	8	10	10	18	11	19		

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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.

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:

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

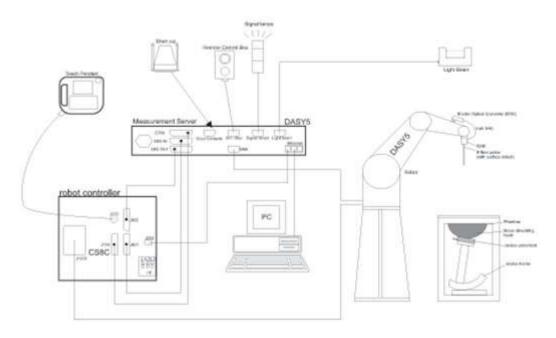
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

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 WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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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) 10 MHz – >6 GHz			
Frequency	Linearity: ±0.2 dB (30 MHz – 6 GHz)			
Directivity	±0.3 dB in TSL (rotation around probe axis)			
Buccuvity	±0.5 dB in TSL (rotation normal to probe axis)			
Dynamic Range	10 μW/g – >100 mW/g			
Dynamic Kange	Linearity: ±0.2 dB (noise: typically <1 μW/g)			
	Overall length: 337 mm (tip: 20 mm)			
Dimensions	Tip diameter: 2.5 mm (body: 12 mm)			
Difficusions	Typical distance from probe tip to dipole centers:			
	1 mm			



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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>

TOAM TWITT HUILDIN		
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	7 5
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

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

<ELI Phantom>

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

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

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 the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.			



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

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

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.

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

Manager	Name of Employment	Type/Model	Osaid Namehan	Calibration		
Manufacturer	urer Name of Equipment 1		Serial Number	Last Cal.	Due Date	
SPEAG	835MHz System Validation Kit	D835V2	4d258	2020/5/7	2023/5/6	
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2019/3/27	2022/3/25	
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	2019/3/26	2022/3/24	
SPEAG	2450MHz System Validation Kit	D2450V2	908	2019/3/25	2022/3/23	
SPEAG	2600MHz System Validation Kit	D2600V2	1061	2020/11/26	2021/11/25	
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2019/9/24	2022/9/23	
SPEAG	Data Acquisition Electronics	DAE4	690	2021/3/17	2022/3/16	
SPEAG	Dosimetric E-Field Probe	EX3DV4	7630	2021/2/10	2022/2/9	
SPEAG	SAM Twin Phantom	SAM Twin	TP-2022	NCR	NCR	
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR	
Anritsu	Radio Communication Analyzer	MT8821C	6201432831	2021/4/13	2022/4/12	
Agilent	ENA Series Network Analyzer	E5071C	MY46106933	2020/8/1	2021/7/31	
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2020/12/2	2021/12/1	
Anritsu	Vector Signal Generator	MG3710A	6201682672	2021/1/7	2022/1/6	
Rohde & Schwarz	Power Meter	NRVD	102081	2020/8/13	2021/8/12	
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2020/8/13	2021/8/12	
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2020/8/13	2021/8/12	
R&S	CBT BLUETOOTH TESTER	CBT	101246	2021/4/12	2022/4/11	
EXA	Spectrum Analyzer	FSV7	101632	2021/1/7	2022/1/6	
FLUKE	DIGITAC THERMOMETER	5111	97240029	2020/8/14	2021/8/13	
Testo	Hygrometer	608-H1	1241332126	2021/1/7	2022/1/6	
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
- 2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- 3. The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

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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. 11.1. 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. 11.2.





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Fig 11.1 Photo of Liquid Height for Head SAR

Fig 11.2 Photo of Liquid Height for Body SAR

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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)		
For Head										
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9		
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5		
1800, 1900	55.2	0	0	0.3	0	44.5	1.40	40.0		
2450	55.0	0	0	0	0	45.0	1.80	39.2		
2600	54.8	0	0	0.1	0	45.1	1.96	39.0		

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. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
835	Head	22.7	0.936	42.537	0.90	41.50	4.00	2.50	±5	2021/7/20
1750	Head	22.6	1.360	40.946	1.37	40.10	-0.73	2.11	±5	2021/7/21
1900	Head	22.6	1.455	40.703	1.40	40.00	3.93	1.76	±5	2021/7/22
2450	Head	22.6	1.810	38.624	1.80	39.20	0.56	-1.47	±5	2021/7/23
2600	Head	22.7	1.927	38.324	1.96	39.00	-1.68	-1.73	±5	2021/7/23
5250	Head	22.6	4.636	36.401	4.71	35.90	-1.57	1.40	±5	2021/7/24
5600	Head	22.7	4.984	35.788	5.07	35.50	-1.70	0.81	±5	2021/7/25
5750	Head	22.8	5.213	35.486	5.22	35.40	-0.13	0.24	±5	2021/7/25
835	Head	22.7	0.938	42.455	0.90	41.50	4.22	2.30	±5	2021/7/26
1750	Head	22.6	1.369	41.293	1.37	40.10	-0.07	2.98	±5	2021/7/27
1900	Head	22.6	1.467	41.044	1.40	40.00	4.79	2.61	±5	2021/7/28
2450	Head	22.6	1.81	38.626	1.96	39.00	-1.63	-1.72	±5	2021/7/29
2600	Head	22.7	1.928	38.328	4.71	35.90	-1.55	1.69	±5	2021/7/29
5250	Head	22.6	4.637	36.507	4.71	35.90	-1.55	1.69	±5	2021/7/30
5600	Head	22.7	4.985	35.916	5.07	35.50	-1.68	1.17	±5	2021/7/31
5750	Head	22.6	5.214	35.605	5.22	35.40	-0.11	0.58	±5	2021/7/31

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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.

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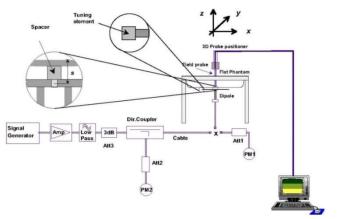
<1g SAR>

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 (%)
2021/7/20	835	Head	50	4d258	7630	690	0.481	9.44	9.62	1.91
2021/7/21	1750	Head	50	1090	7630	690	1.830	36.40	36.6	0.55
2021/7/22	1900	Head	50	5d170	7630	690	2.100	39.00	42	7.69
2021/7/23	2450	Head	50	908	7630	690	2.460	52.80	49.2	-6.82
2021/7/23	2600	Head	50	1061	7630	690	2.690	56.60	53.8	-4.95
2021/7/24	5250	Head	50	1113	7630	690	3.860	80.50	77.2	-4.10
2021/7/25	5600	Head	50	1113	7630	690	4.300	83.40	86	3.12
2021/7/25	5750	Head	50	1113	7630	690	3.850	80.00	77	-3.75
2021/7/26	835	Head	50	4d258	7630	690	0.453	9.44	9.06	-4.03
2021/7/27	1750	Head	50	1090	7630	690	1.850	36.40	37	1.65
2021/7/28	1900	Head	50	5d170	7630	690	2.050	39.00	41	5.13
2021/7/29	2450	Head	50	908	7630	690	2.460	56.60	54	-4.59
2021/7/29	2600	Head	50	1061	7630	690	2.700	80.50	74.2	-7.83
2021/7/30	5250	Head	50	1113	7630	690	3.710	80.50	74.2	-7.83
2021/7/31	5600	Head	50	1113	7630	690	4.080	83.40	81.6	-2.16
2021/7/31	5750	Head	50	1113	7630	690	3.690	80.00	73.8	-7.75

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 (%)
2021/7/20	835	Head	50	4d258	7630	690	0.310	6.13	6.2	1.14
2021/7/21	1750	Head	50	1090	7630	690	0.970	19.20	19.4	1.04
2021/7/22	1900	Head	50	5d170	7630	690	1.080	20.30	21.6	6.40
2021/7/23	2450	Head	50	908	7630	690	1.140	24.20	22.8	-5.79
2021/7/23	2600	Head	50	1061	7630	690	1.350	25.10	27	7.57
2021/7/24	5250	Head	50	1113	7630	690	1.120	23.10	22.4	-3.03
2021/7/25	5600	Head	50	1113	7630	690	1.220	23.80	24.4	2.52
2021/7/25	5750	Head	50	1113	7630	690	1.110	22.80	22.2	-2.63
2021/7/26	835	Head	50	4d258	7630	690	0.291	6.13	5.82	-5.06
2021/7/27	1750	Head	50	1090	7630	690	0.977	19.20	19.54	1.77
2021/7/28	1900	Head	50	5d170	7630	690	1.060	20.30	21.2	4.43
2021/7/29	2450	Head	50	908	7630	690	1.140	25.10	23.4	-6.77
2021/7/29	2600	Head	50	1061	7630	690	1.170	23.10	21.4	-7.36
2021/7/30	5250	Head	50	1113	7630	690	1.070	23.10	21.4	-7.36
2021/7/31	5600	Head	50	1113	7630	690	1.150	23.80	23	-3.36
2021/7/31	5750	Head	50	1113	7630	690	1.050	22.80	21	-7.89

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Fig 11.3.2 Setup Photo

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12. RF Exposure Positions

12.1 Ear and handset reference point

Figure 12.1.1 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 12.1.2 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 12.1.3). 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 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

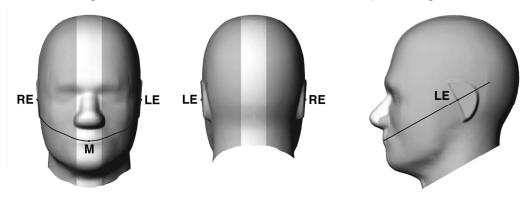
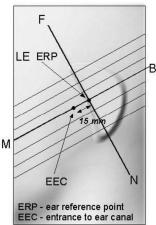
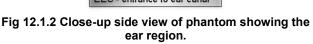
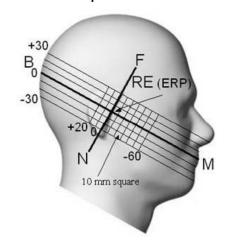


Fig 12.1.1 Front, back, and side views of SAM twin phantom







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Fig 12.1.3 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 12.2.1 and Figure 12.2.2), 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 12.2.1). 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 12.2.2), 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 12.2.3), 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 12.2.3. The actual rotation angles should be documented in the test report.

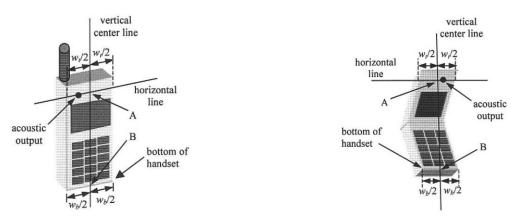


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

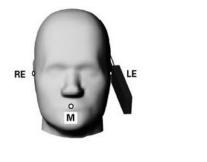
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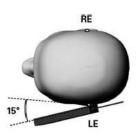
Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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.
- While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- Rotate the handset around the horizontal line by 15°.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. 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







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Fig 12.3.1 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 12.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

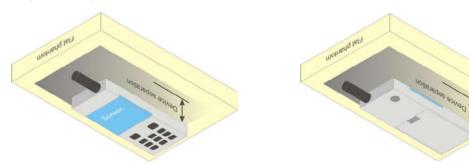


Fig 12.4 Body Worn Position

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

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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>

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

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- 2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS 2Tx slots for GSM850 and GSM1900 are considered as the primary mode.
- Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction
 procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a
 secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary
 mode.

< 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	βc	βd	βd (SF)	β₀/βа	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c , and Δ_{CQI} = 24/15 with β_{hs} = 24/15 * β_c .

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

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

Setup Configuration



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HSUPA Setup Configuration:

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

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- 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	β _d (SF)	β₀/β⊲	β _{HS} (Note1)	Вес	β _{ed} (Note 4) (Note 5)	β _{ed} (SF)	β _{ed} (Codes)	(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	11	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_{hx} = 30/15 * β_c . For sub-test 5, Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 5/15 with $\beta_{hs} = 5/15 * \beta_c$.
- CM = 1 for β_c/β_d =12/15, β_{te}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH Note 2: and E-DPCCH the MPR is based on the relative CM difference.
- For subtest 1 the βd/βd ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by Note 3:
- setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$. Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to
- Bed can not be set directly; it is set by Absolute Grant Value. Note 5:
- For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly Note 6: smaller MPR values.

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DC-HSDPA 3GPP release 8 Setup Configuration:

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

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- a). Subtest 1: $\beta_c/\beta_d=2/15$
- b). Subtest 2: $\beta_c/\beta_d=12/15$
- c). Subtest 3: $\beta_c/\beta_d=15/8$
- d). Subtest 4: $\beta_c/\beta_d=15/4$
- vi. Set Delta ACK, Delta NACK and Delta CQI = 8
- vii. Set Ack-Nack Repetition Factor to 3
- viii. Set CQI Feedback Cycle (k) to 4 ms
- ix. Set CQI Repetition Factor to 2
- x. Power Ctrl Mode = All Up bits
- d. 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-TT	Distance	TTI's	1	
Number	of HARQ Processes	Proces ses	6	
Informat	ion Bit Payload (N _{INF})	Bits	120	
Number	Code Blocks	Blocks	1	
Binary C	hannel Bits Per TTI	Bits	960	
Total Av	ailable SML's in UE	SML's	19200	
Number	of SML's per HARQ Proc.	SML's	3200	
Coding	Rate		0.15	
Number	of Physical Channel Codes	Codes	- 1	
Modulat	ion		QPSK	
Note 1: Note 2:	The RMC is intended to be use mode and both cells shall tran- parameters as listed in the tab Maximum number of transmiss retransmission is not allowed. constellation version 0 shall be	smit with ident le. sion is limited t The redundar	ical o 1, i.e.,	

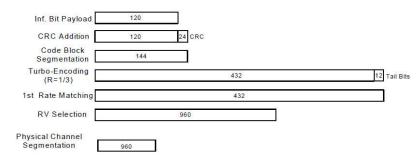


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

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

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *: C.
 - Call Configs = 5.2E:HSPA+:UL with 16QAM
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the ii. following table, C11.1.4, quoted from the TS 34.121-1 s5.2É

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

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

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

- Note 1: \triangle_{ACK} , \triangle_{NACK} and $\triangle_{CQI} = 30/15$ with $\beta_{bs} = 30/15 * \beta_c$.
- CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 2:
- DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default. β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 3:
- Note 4:
- All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-Note 5: DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

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<WCDMA Conducted Power>

General Note:

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

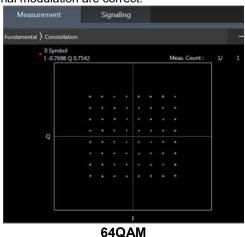
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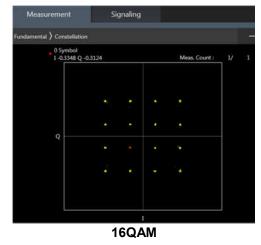
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA/ HSPA+ is ≤ ½ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA/ HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA/ HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA/ HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA/ HSPA+

<LTE Conducted Power>

General Note:

- 1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
- 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/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.
- 7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 8. For LTE B4 / 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. LTE B4 SAR test was covered by B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger
- 10. According to 2017 TCB workshop, for 64 QAM and 16 QAM 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.

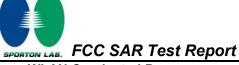




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<WLAN Conducted Power>

General Note:

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

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

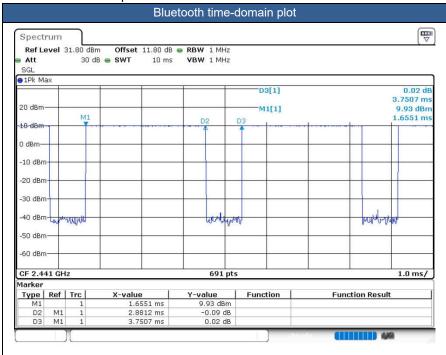
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<2.4GHz Bluetooth>

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- The Bluetooth duty cycle is 76.82 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, 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 BT/WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 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 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.
- 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) and the 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
- For some WWAN bands, receiver off/sensor on reduced power level is higher than hotspot reduced power level, so front/back receiver off SAR can represent hotspot conservatively.
- 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. It is special to declare. 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).
- There are three samples. Please refer to the XT2173-1 Operational Description of Product Equality Declaration exhibit submitted. According to the difference, we chose sample 1 to perform full SAR testing and sample 2/3 verified the worst case of sample 1.
- There are three type batteries, with the same battery capacity, only manufacturer different. So we only chose battery 1 to perform full SAR testing.
- There are three headsets, only supplier different, so only chose headset 1/2 to perform SAR testing.
- 10. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - 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 GSM1900, WCDMA Band II/IV/V, LTE Band2/4/5/7/66, WLAN5.2GHz/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.

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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. Therefore, the GPRS 2Tx slots for GSM850 and GSM1900 are considered as the primary mode.

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2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 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".
- 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 / HSPA+ 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 / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA/ HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA/ HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / BSDPA / DC-HSDPA/ HSPA+.

LTE Note:

- 1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- 4. Per KDB 941225 D05v02r05, 16QAM/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.
- 5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 6. For LTE B4 / 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.
- LTE B4 SAR test was covered by B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

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WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

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- 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.
- 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
- 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.
- During SAR testing the WLAN transmission was verified using a spectrum analyzer.
- 6. Based on WLAN2.4GHz and Bluetooth share the same antenna, so Bluetooth RF exposure evaluation chose the worst positon of WLAN 2.4GHz Ant to perform Bluetooth SAR test, and used this Bluetooth SAR value conservatively represent other position do co-located analysis with WWAN.

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15.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Dower		Tune-up Scaling Factor		Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (2 Tx slots)	Right Cheek	0mm	1	Full	189	836.4	30.97	32.00	1.268	-0.06	0.235	0.298
	GSM850	GPRS (2 Tx slots)	Right Tilted	0mm	1	Full	189	836.4	30.97	32.00	1.268	0.01	0.117	0.148
01	GSM850	GPRS (2 Tx slots)	Left Cheek	0mm	1	Full	189	836.4	30.97	32.00	1.268	-0.09	0.244	0.309
	GSM850	GPRS (2 Tx slots)	Left Tilted	0mm	1	Full	189	836.4	30.97	32.00	1.268	0.07	0.131	0.166
02	GSM1900	GPRS (2 Tx slots)	Right Cheek	0mm	1	Full	661	1880	27.52	29.00	1.406	-0.03	0.136	0.191
	GSM1900	GPRS (2 Tx slots)	Right Tilted	0mm	1	Full	661	1880	27.52	29.00	1.406	0.04	0.085	0.120
	GSM1900	GPRS (2 Tx slots)	Left Cheek	0mm	1	Full	661	1880	27.52	29.00	1.406	0.05	0.120	0.169
	GSM1900	GPRS (2 Tx slots)	Left Tilted	0mm	1	Full	661	1880	27.52	29.00	1.406	0.17	0.111	0.156

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction		Freq. (MHz)	Power		Tune-up Scaling Factor		Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
03	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	1	Full	9400	1880	22.35	24.00	1.462	0.13	0.207	0.303
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	1	Full	9400	1880	22.35	24.00	1.462	-0.13	0.145	0.212
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	1	Full	9400	1880	22.35	24.00	1.462	0.06	0.176	0.257
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	1	Full	9400	1880	22.35	24.00	1.462	0.03	0.178	0.260
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	1	Full	1413	1732.6	22.25	24.00	1.496	0.08	0.233	0.349
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	1	Full	1413	1732.6	22.25	24.00	1.496	0.08	0.159	0.238
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	1	Full	1413	1732.6	22.25	24.00	1.496	0.04	0.203	0.304
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	1	Full	1413	1732.6	22.25	24.00	1.496	0.06	0.174	0.260
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	1	Full	4182	836.4	22.44	24.00	1.432	0.03	0.359	0.514
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	1	Full	4182	836.4	22.44	24.00	1.432	0.04	0.249	0.357
05	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	1	Full	4182	836.4	22.44	24.00	1.432	0.01	0.376	0.539
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	1	Full	4182	836.4	22.44	24.00	1.432	0.17	0.257	0.368

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<FDD LTE SAR>

Plot		BW		RB	RB	Test	Gap		Power		Freq.	Average			Power	Measured	Reported
No.	Band	(MHz)	Modulation		offset		(mm)	Sample	Reduction	Ch.	rreq. (MHz)	Power		Scaling	Drift	1g SAR	1g SAR
06	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	1	Full	18900	1880	(dBm) 22.42	(dBm) 24.00	Factor 1.439	(dB) -0.03	(W/kg) 0.192	(W/kg) 0.276
00	LTE Band 2	20M	QPSK	50	0	Right Cheek		1	Full	18900	1880	21.61	23.00	1.439	-0.05	0.152	0.211
	LTE Band 2	20M	QPSK	1	0	Right Tilted		1	Full	18900	1880	22.42	24.00	1.439	-0.13	0.133	0.211
	LTE Band 2	20M	QPSK	50	0	Right Tilted		1	Full	18900	1880	21.61	23.00	1.439	0.09	0.146	0.213
	LTE Band 2	20M	QPSK	1	0	•	0mm	1	Full	18900	1880	22.42	24.00	1.439	0.09	0.113	0.130
	LTE Band 2	20M	QPSK	50	0		0mm	1	Full	18900	1880	21.61	23.00	1.439	0.14	0.132	0.243
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	1	Full	18900	1880	22.42	24.00	1.439	-0.05	0.132	0.102
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	1	Full	18900	1880	21.61	23.00	1.439	0.02	0.149	0.214
07	LTE Band 5	10M	QPSK	1	0	Right Cheek		1	Full	20525		22.64	24.00	1.368	0.02	0.385	0.101
07	LTE Band 5	10M	QPSK	25	0	Right Cheek		1	Full	20525		21.65	23.00	1.365	0.13	0.301	0.527
					_												
	LTE Band 5	10M	QPSK QPSK	1 25	0	Right Tilted		1	Full	20525		22.64	24.00	1.368	0.02	0.257	0.352
	LTE Band 5	10M			0	Right Tilted		-	Full	20525		21.65	23.00	1.365	0.04	0.202	0.276
	LTE Band 5	10M	QPSK	1	0	_	0mm	1	Full	20525		22.64	24.00	1.368	-0.06	0.378	0.517
	LTE Band 5	10M	QPSK	25	0	_	0mm	1	Full	20525		21.65	23.00	1.365	-0.18	0.297	0.405
	LTE Band 5	10M	QPSK	1	0	Left Tilted	0mm	1	Full	20525	_	22.64	24.00	1.368	-0.12	0.227	0.310
	LTE Band 5	10M	QPSK	25	0	Left Tilted	0mm	1	Full	20525		21.65	23.00	1.365	0.01	0.180	0.246
80	LTE Band 7	20M	QPSK	1	0	Right Cheek		1	Full	21100	_	22.45	24.00	1.429	0.07	0.195	0.279
	LTE Band 7	20M	QPSK	50	0	Right Cheek		1	Full	21100	2535	21.56	23.00	1.393	0.11	0.154	0.215
	LTE Band 7	20M	QPSK	1	0	Right Tilted		1	Full		2535	22.45	24.00	1.429	0.08	0.067	0.096
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	1	Full	21100	2535	21.56	23.00	1.393	-0.12	0.055	0.077
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	1	Full	21100		22.45	24.00	1.429	0.04	0.099	0.141
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	1	Full	21100	2535	21.56	23.00	1.393	0.06	0.078	0.109
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	1	Full	21100	2535	22.45	24.00	1.429	0.04	0.072	0.103
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	1	Full	21100	2535	21.56	23.00	1.393	0.05	0.057	0.079
09	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	1	Full	132322	1745	22.57	24.00	1.390	-0.05	0.220	0.306
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	1	Full	132322	1745	21.79	23.00	1.321	-0.1	0.172	0.227
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	1	Full	132322	1745	22.57	24.00	1.390	0.08	0.147	0.204
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	1	Full	132322	1745	21.79	23.00	1.321	-0.06	0.112	0.148
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	1	Full	132322	1745	22.57	24.00	1.390	-0.13	0.193	0.268
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	1	Full	132322	1745	21.79	23.00	1.321	0.05	0.152	0.201
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	1	Full	132322	1745	22.57	24.00	1.390	0.03	0.146	0.203
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	1	Full	132322	1745	21.79	23.00	1.321	-0.05	0.115	0.152

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<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cycle		Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	1	Full	1	2412	18.80	20.00	1.318	100	1.000	0.09	0.297	0.392
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	1	Full	1	2412	18.80	20.00	1.318	100	1.000	0.01	0.269	0.355
10	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	1	Full	1	2412	18.80	20.00	1.318	100	1.000	0.03	0.768	1.012
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	1	Full	11	2462	18.60	20.00	1.380	100	1.000	0.01	0.598	0.825
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	1	Full	1	2412	18.80	20.00	1.318	100	1.000	0.04	0.664	0.875
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	1	Full	11	2462	18.60	20.00	1.380	100	1.000	0.05	0.613	0.846

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<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
11	Bluetooth	1Mbps	Left Cheek	0mm	1	Full	39	2441	10.00	11.00	1.259	76.82	1.302	0.06	0.072	0.118

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)		Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	1	Reduced	58	5290	14.03	15.50	1.403	87.79	1.139	0.09	0.414	0.661
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	1	Reduced	58	5290	14.03	15.50	1.403	87.79	1.139	0.14	0.482	0.770
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	1	Reduced	58	5290	14.03	15.50	1.403	87.79	1.139	0.07	0.607	0.970
12	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	1	Reduced	58	5290	14.03	15.50	1.403	87.79	1.139	0.17	0.692	1.106
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	1	Reduced	138	5690	14.92	16.50	1.439	87.79	1.139	-0.13	0.318	0.521
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	1	Reduced	138	5690	14.92	16.50	1.439	87.79	1.139	0.06	0.382	0.626
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	1	Reduced	138	5690	14.92	16.50	1.439	87.79	1.139	0.03	0.375	0.615
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	1	Reduced	138	5690	14.92	16.50	1.439	87.79	1.139	80.0	0.591	0.969
13	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	1	Reduced	122	5610	14.80	16.50	1.479	87.79	1.139	0.07	0.612	1.031
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	1	Reduced	155	5775	15.50	16.50	1.259	87.79	1.139	0.04	0.512	0.734
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	1	Reduced	155	5775	15.50	16.50	1.259	87.79	1.139	-0.06	0.642	0.921
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	1	Reduced	155	5775	15.50	16.50	1.259	87.79	1.139	-0.18	0.676	0.969
14	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	1	Reduced	155	5775	15.50	16.50	1.259	87.79	1.139	0.06	0.819	1.174
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	2	Reduced	155	5775	15.50	16.50	1.259	87.79	1.139	0.03	0.711	1.020
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	3	Reduced	155	5775	15.50	16.50	1.259	87.79	1.139	0.01	0.755	1.083

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15.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (2 Tx slots)	Front	5mm	1	Full	189	836.4	30.97	32.00	1.268	0.06	0.409	0.518
15	GSM850	GPRS (2 Tx slots)	Back	5mm	1	Full	189	836.4	30.97	32.00	1.268	0.01	0.596	0.756
	GSM850	GPRS (2 Tx slots)	Left Side	5mm	1	Full	189	836.4	30.97	32.00	1.268	0.03	0.366	0.464
	GSM850	GPRS (2 Tx slots)	Right Side	5mm	1	Full	189	836.4	30.97	32.00	1.268	-0.05	0.310	0.393
	GSM850	GPRS (2 Tx slots)	Bottom Side	5mm	1	Full	189	836.4	30.97	32.00	1.268	-0.02	0.219	0.278
	GSM1900	GPRS (2 Tx slots)	Front	5mm	1	Reduced	661	1880	24.03	25.00	1.250	0.01	0.543	0.679
	GSM1900	GPRS (2 Tx slots)	Back	5mm	1	Reduced	661	1880	24.03	25.00	1.250	0.09	0.856	1.070
16	GSM1900	GPRS (2 Tx slots)	Back	5mm	1	Reduced	512	1850.2	24.02	25.00	1.253	-0.09	0.971	1.217
	GSM1900	GPRS (2 Tx slots)	Back	5mm	1	Reduced	810	1909.8	23.97	25.00	1.268	0.03	0.566	0.717
	GSM1900	GPRS (2 Tx slots)	Left Side	5mm	1	Reduced	661	1880	22.69	23.50	1.205	0.06	0.034	0.041
	GSM1900	GPRS (2 Tx slots)	Right Side	5mm	1	Reduced	661	1880	22.69	23.50	1.205	-0.07	0.038	0.046
	GSM1900	GPRS (2 Tx slots)	Bottom Side	5mm	1	Reduced	661	1880	22.69	23.50	1.205	0.03	0.770	0.928
	GSM1900	GPRS (2 Tx slots)	Bottom Side	5mm	1	Reduced	512	1850.2	22.68	23.50	1.208	-0.03	0.893	1.079
	GSM1900	GPRS (2 Tx slots)	Bottom Side	5mm	1	Reduced	810	1909.8	22.63	23.50	1.222	-0.07	0.631	0.771

Report No. : FA162325

<WCDMA SAR>

				_		_		_	Average	Tune-Up	Tune-up	Power	Measured	Reported
Plot No.	Band	Mode	Test Position	Gap	Sample	Power Reduction	Ch.	Freq. (MHz)	Power	Limit	Scaling	Drift	1g SAR	1g SAR
NO.			Position	(mm)		Reduction		(IVITIZ)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	Reduced	9400	1880	15.53	17.00	1.403	0.08	0.521	0.731
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Reduced	9400	1880	15.53	17.00	1.403	0.06	0.776	1.089
17	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Reduced	9262	1852.4	15.51	17.00	1.409	0.05	0.994	1.401
	WCDMA II	RMC 12.2Kbps	Back	5mm	2	Reduced	9262	1852.4	15.51	17.00	1.409	0.04	0.813	1.146
	WCDMA II	RMC 12.2Kbps	Back	5mm	3	Reduced	9262	1852.4	15.51	17.00	1.409	0.05	0.786	1.108
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Reduced	9538	1907.6	15.42	17.00	1.439	-0.05	0.621	0.893
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	1	Reduced	9400	1880	13.35	15.00	1.462	0.02	0.026	0.038
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	1	Reduced	9400	1880	13.35	15.00	1.462	-0.08	0.047	0.069
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	Reduced	9400	1880	13.35	15.00	1.462	0.02	0.772	1.129
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	Reduced	9262	1852.4	13.28	15.00	1.486	-0.07	0.932	1.385
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	Reduced	9538	1907.6	13.27	15.00	1.489	0.06	0.665	0.990
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	Reduced	1413	1732.6	15.92	17.50	1.439	-0.09	0.685	0.986
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	Reduced	1312	1712.4	15.89	17.50	1.449	0.02	0.731	1.059
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	Reduced	1513	1752.6	15.91	17.50	1.442	0.09	0.571	0.823
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	Reduced	1413	1732.6	15.92	17.50	1.439	0.02	0.828	1.191
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	Reduced	1312	1712.4	15.89	17.50	1.449	0.03	0.893	1.294
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	Reduced	1513	1752.6	15.91	17.50	1.442	0.06	0.694	1.001
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	1	Reduced	1413	1732.6	14.44	16.00	1.432	0.03	0.027	0.039
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	1	Reduced	1413	1732.6	14.44	16.00	1.432	0.08	0.071	0.102
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	Reduced	1413	1732.6	14.44	16.00	1.432	0.03	0.908	1.300
18	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	Reduced	1312	1712.4	14.37	16.00	1.455	-0.11	0.936	1.362
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	2	Reduced	1312	1712.4	14.37	16.00	1.455	0.03	0.843	1.227
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	3	Reduced	1312	1712.4	14.37	16.00	1.455	0.01	0.857	1.247
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	Reduced	1513	1752.6	14.41	16.00	1.442	0.09	0.816	1.177
	WCDMA V	RMC 12.2Kbps	Front	5mm	1	Full	4182	836.4	22.44	24.00	1.432	0.08	0.556	0.796
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	Full	4182	836.4	22.44	24.00	1.432	0.03	0.792	1.134
19	WCDMA V	RMC 12.2Kbps	Back	5mm	1	Full	4132	826.4	22.23	24.00	1.503	0.16	0.891	1.339
	WCDMA V	RMC 12.2Kbps	Back	5mm	2	Full	4132	826.4	22.23	24.00	1.503	0.02	0.740	1.112
	WCDMA V	RMC 12.2Kbps	Back	5mm	3	Full	4132	826.4	22.23	24.00	1.503	0.05	0.796	1.197
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	Full	4233	846.6	22.27	24.00	1.489	0.05	0.686	1.022
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	1	Full	4182	836.4	22.44	24.00	1.432	0.01	0.497	0.712
	WCDMA V	RMC 12.2Kbps	Right Side	5mm	1	Full	4182	836.4	22.44	24.00	1.432	0.06	0.417	0.597
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	1	Full	4182	836.4	22.44	24.00	1.432	0.05	0.267	0.382

Sporton International (Kunshan) Inc.

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<FDD LTE SAR>

	1 00 11																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	5mm	1	Reduced	18900	1880	15.62	17.00	1.374	-0.02	0.568	0.780
	LTE Band 2	20M	QPSK	50	0	Front	5mm	1	Reduced	18900	1880	14.82	16.00	1.312	0.07	0.450	0.590
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	Reduced	18900	1880	15.62	17.00	1.374	0.06	0.780	1.072
20	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	Reduced	18700	1860	15.58	17.00	1.387	-0.05	0.962	1.334
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	Reduced	19100	1900	15.50	17.00	1.413	-0.09	0.653	0.922
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	Reduced	18900	1880	14.82	16.00	1.312	0.05	0.616	0.808
-	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	Reduced	18700	1860	14.68	16.00	1.355	-0.02	0.751	1.018
-	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	Reduced	19100	1900	14.66	16.00	1.361	0.02	0.731	0.700
-			QPSK		0			1			1880				-0.07		
	LTE Band 2	20M		100		Back	5mm		Reduced	18900		14.83	16.00	1.309	<u> </u>	0.620	0.812
-	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	1	Reduced	18900	1880	13.69	15.00	1.352	0.06	0.028	0.038
-	LTE Band 2	20M	QPSK	50	0	Left Side	5mm	1	Reduced	18900	1880	12.86	14.00	1.300	0.05	0.022	0.029
	LTE Band 2	20M	QPSK	1	0	Right Side	5mm	1	Reduced	18900	1880	13.69	15.00	1.352	0.09	0.043	0.058
	LTE Band 2	20M	QPSK	50	0		5mm	1	Reduced	18900	1880	12.86	14.00	1.300	0.01	0.034	0.044
	LTE Band 2	20M	QPSK	1	0	Bottom Side		1	Reduced	18900	1880	13.69	15.00	1.352	0.05	0.800	1.082
	LTE Band 2	20M	QPSK	1	0	Bottom Side		1	Reduced	18700	1860	13.48	15.00	1.419	-0.12	0.929	1.318
	LTE Band 2	20M	QPSK	1	0	Bottom Side		1	Reduced	19100	1900	13.37	15.00	1.455	0.01	0.699	1.017
	LTE Band 2	20M	QPSK	50	0	Bottom Side		1	Reduced	18900	1880	12.86	14.00	1.300	0.09	0.627	0.815
	LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	1	Reduced	18700	1860	12.81	14.00	1.315	0.05	0.725	0.954
	LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	1	Reduced	19100	1900	12.60	14.00	1.380	0.02	0.544	0.751
	LTE Band 2	20M	QPSK	100	0	Bottom Side	5mm	1	Reduced	18900	1880	12.79	14.00	1.321	0.06	0.628	0.830
	LTE Band 5	10M	QPSK	1	0	Front	5mm	1	Full	20525	836.5	22.64	24.00	1.368	0.03	0.790	1.081
	LTE Band 5	10M	QPSK	25	0	Front	5mm	1	Full	20525	836.5	21.65	23.00	1.365	-0.02	0.524	0.715
	LTE Band 5	10M	QPSK	50	0	Front	5mm	1	Full	20525	836.5	21.62	23.00	1.374	-0.08	0.504	0.693
21	LTE Band 5	10M	QPSK	1	0	Back	5mm	1	Full	20525	836.5	22.64	24.00	1.368	0.07	0.940	1.286
	LTE Band 5	10M	QPSK	25	0	Back	5mm	1	Full	20525	836.5	21.65	23.00	1.365	0.06	0.756	1.032
	LTE Band 5	10M	QPSK	50	0	Back	5mm	1	Full	20525	836.5	21.62	23.00	1.374	0.01	0.930	1.278
	LTE Band 5	10M	QPSK	1	0	Left Side	5mm	1	Full	20525		22.64	24.00	1.368	0.03	0.563	0.770
	LTE Band 5	10M	QPSK	25	0	Left Side	5mm	1	Full	20525		21.65	23.00	1.365	-0.05	0.529	0.722
	LTE Band 5	10M	QPSK	1	0	Right Side	5mm	1	Full	20525		22.64	24.00	1.368	-0.02	0.557	0.762
	LTE Band 5	10M	QPSK	25	0	Right Side	5mm	1	Full	20525		21.65	23.00	1.365	0.01	0.444	0.606
	LTE Band 5	10M	QPSK	1	0	Bottom Side		1	Full	20525		22.64	24.00	1.368	0.05	0.328	0.449
	LTE Band 5	10M	QPSK	25	0	Bottom Side		1	Full	20525		21.65	23.00	1.365	0.09	0.259	0.353
								1		-							
-	LTE Band 7	20M	QPSK	1	0	Front	5mm	1	Reduced	21100		18.27	19.50	1.327	0.08	0.560	0.743
-	LTE Band 7	20M	QPSK	50	0	Front	5mm	1	Reduced	21100		17.15	18.50	1.365	0.06	0.446	0.609
	LTE Band 7		QPSK	1	0	Back	5mm	1	Reduced			18.27	19.50	1.327	-0.07	0.938	1.245
	LTE Band 7		QPSK	1	0	Back	5mm	1	Reduced			18.21	19.50	1.346	-0.01	0.915	1.231
22	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	Reduced			18.19	19.50	1.352	0.07	1.000	1.352
-	LTE Band 7		QPSK	1	0	Back	5mm	2	Reduced			18.19	19.50	1.352	0.04	0.860	1.163
	LTE Band 7		QPSK	1	0	Back	5mm	3	Reduced			18.19	19.50	1.352	0.08	0.844	1.141
<u> </u>	LTE Band 7		QPSK	50	0	Back	5mm	1	Reduced			17.15	18.50	1.365	0.08	0.751	1.025
	LTE Band 7		QPSK	50	0	Back	5mm	1	Reduced			16.98	18.50	1.419	0.01	0.718	1.019
	LTE Band 7	20M	QPSK	50	0	Back	5mm	1	Reduced			17.09	18.50	1.384	0.05	0.786	1.087
	LTE Band 7		QPSK	100	0	Back	5mm	1	Reduced	21100	2535	17.11	18.50	1.377	0.09	0.736	1.014
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	1	Reduced	21100	2535	18.27	19.50	1.327	0.05	0.055	0.073
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	1	Reduced	21100	2535	17.15	18.50	1.365	0.09	0.043	0.059
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	1	Reduced	21100	2535	18.27	19.50	1.327	0.01	0.205	0.272
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	1	Reduced	21100	2535	17.15	18.50	1.365	0.05	0.163	0.222
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	Reduced	21100	2535	18.27	19.50	1.327	0.03	0.935	1.241
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	Reduced	20850	2510	18.21	19.50	1.346	-0.05	0.947	1.275
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	Reduced	21350	2560	18.19	19.50	1.352	-0.02	0.938	1.268
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	1	Reduced	21100		17.15	18.50	1.365	0.03	0.751	1.025
	LTE Band 7	20M	QPSK	50	0	Bottom Side			Reduced	20850		16.98	18.50	1.419	0.05	0.748	1.061
												2.20	2.30				

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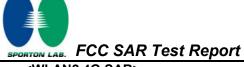
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	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	1	Reduced	21350	2560	17.09	18.50	1.384	-0.06	0.739	1.022
	LTE Band 7	20M	QPSK	100	0	Bottom Side	5mm	1	Reduced	21100	2535	17.11	18.50	1.377	-0.02	0.733	1.009
	LTE Band 66	20M	QPSK	1	0	Front	5mm	1	Reduced	132322	1745	16.65	18.00	1.365	0.07	0.703	0.959
	LTE Band 66	20M	QPSK	1	0	Front	5mm	1	Reduced	132072	1720	16.59	18.00	1.384	0.05	0.835	1.155
	LTE Band 66	20M	QPSK	1	0	Front	5mm	1	Reduced	132572	1770	16.58	18.00	1.387	0.02	0.557	0.772
	LTE Band 66	20M	QPSK	50	0	Front	5mm	1	Reduced	132322	1745	15.78	17.00	1.324	0.01	0.559	0.740
	LTE Band 66	20M	QPSK	100	0	Front	5mm	1	Reduced	132322	1745	15.57	17.00	1.390	0.09	0.553	0.769
	LTE Band 66	20M	QPSK	1	0	Back	5mm	1	Reduced	132322	1745	16.65	18.00	1.365	0.03	0.801	1.093
23	LTE Band 66	20M	QPSK	1	0	Back	5mm	1	Reduced	132072	1720	16.59	18.00	1.384	-0.03	0.957	1.324
	LTE Band 66	20M	QPSK	1	0	Back	5mm	1	Reduced	132572	1770	16.58	18.00	1.387	-0.02	0.639	0.886
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	Reduced	132322	1745	15.78	17.00	1.324	-0.09	0.635	0.841
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	Reduced	132072	1720	15.73	17.00	1.340	0.03	0.753	1.009
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	Reduced	132572	1770	15.62	17.00	1.374	0.01	0.501	0.688
	LTE Band 66	20M	QPSK	100	0	Back	5mm	1	Reduced	132322	1745	15.57	17.00	1.390	0.06	0.633	0.880
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	1	Reduced	132322	1745	14.88	16.00	1.294	0.06	0.035	0.045
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	1	Reduced	132322	1745	13.87	15.00	1.297	-0.07	0.028	0.036
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	1	Reduced	132322	1745	14.88	16.00	1.294	0.06	0.067	0.087
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	1	Reduced	132322	1745	13.87	15.00	1.297	-0.07	0.053	0.069
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	1	Reduced	132322	1745	14.88	16.00	1.294	-0.01	0.877	1.135
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	1	Reduced	132072	1720	14.61	16.00	1.377	-0.12	0.942	1.297
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	1	Reduced	132572	1770	14.69	16.00	1.352	0.06	0.765	1.034
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	1	Reduced	132322	1745	13.87	15.00	1.297	-0.07	0.694	0.900
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	1	Reduced	132072	1720	13.69	15.00	1.352	0.03	0.743	1.005
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	1	Reduced	132572	1770	13.85	15.00	1.303	0.15	0.602	0.785
	LTE Band 66	20M	QPSK	100	0	Bottom Side	5mm	1	Reduced	132322	1745	13.81	15.00	1.315	0.06	0.682	0.897

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<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	1	Full	1	2412	18.80	20.00	1.318	100	1.000	0.02	0.436	0.575
24	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	Full	1	2412	18.80	20.00	1.318	100	1.000	0.01	0.626	0.825
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	2	Full	1	2412	18.80	20.00	1.318	100	1.000	0.07	0.594	0.783
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	3	Full	1	2412	18.80	20.00	1.318	100	1.000	0.08	0.571	0.753
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	Full	11	2462	18.60	20.00	1.380	100	1.000	-0.02	0.516	0.712
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	1	Full	1	2412	18.80	20.00	1.318	100	1.000	0.08	0.410	0.540
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	1	Full	1	2412	18.80	20.00	1.318	100	1.000	0.04	0.565	0.745

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<Bluetooth SAR>

	Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
Ī	25	Bluetooth	1Mbps	Back	5mm	1	Full	39	2441	10.00	11.00	1.259	76.82	1.302	-0.04	0.059	0.097

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)		Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	5mm	1	Reduced	46	5230	15.73	17.00	1.340	93.52	1.069	-0.08	0.257	0.368
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	5mm	1	Reduced	46	5230	15.73	17.00	1.340	93.52	1.069	-0.07	0.605	0.866
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	5mm	1	Reduced	38	5190	13.90	15.50	1.445	93.52	1.069	0.05	0.399	0.617
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	5mm	1	Reduced	46	5230	15.73	17.00	1.340	93.52	1.069	-0.01	0.118	0.169
26	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	5mm	1	Reduced	46	5230	15.73	17.00	1.340	93.52	1.069	80.0	0.764	1.094
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	5mm	2	Reduced	46	5230	15.73	17.00	1.340	93.52	1.069	80.0	0.639	0.915
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	5mm	3	Reduced	46	5230	15.73	17.00	1.340	93.52	1.069	0.07	0.697	0.998
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	5mm	1	Reduced	38	5190	13.90	15.50	1.445	93.52	1.069	0.07	0.509	0.786
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	1	Reduced	155	5775	17.34	18.00	1.164	87.79	1.139	0.18	0.311	0.412
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	1	Reduced	155	5775	17.34	18.00	1.164	87.79	1.139	0.02	0.585	0.776
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	1	Reduced	155	5775	17.34	18.00	1.164	87.79	1.139	80.0	0.163	0.216
27	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	1	Reduced	155	5775	17.34	18.00	1.164	87.79	1.139	-0.04	0.900	1.193
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	2	Reduced	155	5775	17.34	18.00	1.164	87.79	1.139	0.03	0.769	1.020
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	3	Reduced	155	5775	17.34	18.00	1.164	87.79	1.139	0.05	0.869	1.152

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15.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Headset	Power Reduction	Ch.	Freq. (MHz)	Dower	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (2 Tx slots)	Front	5mm	1	-	Full	189	836.4	30.97	32.00	1.268	0.06	0.409	0.518
28	GSM850	GPRS (2 Tx slots)	Back	5mm	1	1	Full	189	836.4	30.97	32.00	1.268	0.01	0.596	0.756
	GSM1900	GPRS (2 Tx slots)	Front	5mm	1	-	Reduced	661	1880	24.03	25.00	1.250	0.01	0.543	0.679
	GSM1900	GPRS (2 Tx slots)	Back	5mm	1	-	Reduced	661	1880	24.03	25.00	1.250	0.09	0.856	1.070
28	GSM1900	GPRS (2 Tx slots)	Back	5mm	1	-	Reduced	512	1850.2	24.02	25.00	1.253	-0.09	0.971	1.217
	GSM1900	GPRS (2 Tx slots)	Back	5mm	1	ı	Reduced	810	1909.8	23.97	25.00	1.268	0.03	0.566	0.717
	GSM1900	GPRS (2 Tx slots)	Back	5mm	1	Headset 1	Reduced	512	1850.2	24.02	25.00	1.253	0.02	0.958	1.201
	GSM1900	GPRS (2 Tx slots)	Back	5mm	1	Headset 2	Reduced	512	1850.2	24.02	25.00	1.253	0.01	0.933	1.169
	GSM1900	GPRS (2 Tx slots)	Front	15mm	1	-	Full	661	1880	27.52	29.00	1.406	0.09	0.451	0.634
	GSM1900	GPRS (2 Tx slots)	Back	23mm	1	ı	Full	661	1880	27.52	29.00	1.406	0.08	0.268	0.377

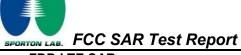
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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	-	Reduced	9400	1880	15.53	17.00	1.403	0.08	0.521	0.731
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	i	Reduced	9400	1880	15.53	17.00	1.403	0.06	0.776	1.089
30	WCDMA II	RMC 12.2Kbps	Back	5mm	1	ı	Reduced	9262	1852.4	15.51	17.00	1.409	0.05	0.994	1.401
	WCDMA II	RMC 12.2Kbps	Back	5mm	2	-	Reduced	9262	1852.4	15.51	17.00	1.409	0.04	0.813	1.146
	WCDMA II	RMC 12.2Kbps	Back	5mm	3	-	Reduced	9262	1852.4	15.51	17.00	1.409	0.05	0.786	1.108
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	ı	Reduced	9538	1907.6	15.42	17.00	1.439	-0.05	0.621	0.893
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Headset 1	Reduced	9262	1852.4	15.51	17.00	1.409	80.0	0.896	1.263
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Headset 2	Reduced	9262	1852.4	15.51	17.00	1.409	0.03	0.877	1.236
	WCDMA II	RMC 12.2Kbps	Front	15mm	1	i	Full	9262	1852.4	22.30	24.00	1.479	0.06	0.746	1.103
	WCDMA II	RMC 12.2Kbps	Front	15mm	1	i	Full	9400	1880	22.35	24.00	1.462	0.09	0.565	0.826
	WCDMA II	RMC 12.2Kbps	Front	15mm	1	-	Full	9538	1907.6	22.28	24.00	1.486	0.03	0.581	0.863
	WCDMA II	RMC 12.2Kbps	Back	23mm	1	-	Full	9400	1880	22.35	24.00	1.462	-0.07	0.534	0.781
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	-	Reduced	1413	1732.6	15.92	17.50	1.439	-0.09	0.685	0.986
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	-	Reduced	1312	1712.4	15.89	17.50	1.449	0.02	0.731	1.059
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	-	Reduced	1513	1752.6	15.91	17.50	1.442	0.09	0.571	0.823
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	Reduced	1413	1732.6	15.92	17.50	1.439	0.02	0.828	1.191
31	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	Reduced	1312	1712.4	15.89	17.50	1.449	0.03	0.893	1.294
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	Reduced	1513	1752.6	15.91	17.50	1.442	0.06	0.694	1.001
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	Headset 1	Reduced	1312	1712.4	15.89	17.50	1.449	-0.07	0.882	1.278
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	Headset 2	Reduced	1312	1712.4	15.89	17.50	1.449	0.06	0.856	1.240
	WCDMA IV	RMC 12.2Kbps	Front	15mm	1	-	Full	1312	1712.4	22.18	24.00	1.521	-0.02	0.843	1.282
	WCDMA IV	RMC 12.2Kbps	Front	15mm	1	-	Full	1413	1732.6	22.25	24.00	1.496	0.09	0.764	1.143
	WCDMA IV	RMC 12.2Kbps	Front	15mm	1	-	Full	1513	1752.6	22.12	24.00	1.542	0.03	0.652	1.005
	WCDMA IV	RMC 12.2Kbps	Back	23mm	1	-	Full	1413	1732.6	22.25	24.00	1.496	0.05	0.549	0.821
	WCDMA V	RMC 12.2Kbps	Front	5mm	1	-	Full	4182	836.4	22.44	24.00	1.432	0.08	0.556	0.796
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	-	Full	4182	836.4	22.44	24.00	1.432	0.03	0.792	1.134
32	WCDMA V	RMC 12.2Kbps	Back	5mm	1	-	Full	4132	826.4	22.23	24.00	1.503	0.16	0.891	1.339
	WCDMA V	RMC 12.2Kbps	Back	5mm	2	-	Full	4132	826.4	22.23	24.00	1.503	0.02	0.740	1.112
	WCDMA V	RMC 12.2Kbps	Back	5mm	3	-	Full	4132	826.4	22.23	24.00	1.503	0.05	0.796	1.197
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	-	Full	4233	846.6	22.27	24.00	1.489	0.05	0.686	1.022
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	Headset 1	Full	4132	826.4	22.23	24.00	1.503	0.04	0.675	1.015
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	Headset 2	Full	4132	826.4	22.23	24.00	1.503	0.03	0.645	0.970

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<FDD LTE SAR>

			L JAKZ															
Plot	Donat	BW	B#ll -4:	RB	RB	Test	Gap	01-	11	Power	O.b.	Freq.	Average				Measured	
No.	Band	(MHz)	Modulation	Size	offset	Position		Sample	Headset	Reduction	Ch.	(MHz)	Power (dBm)	Limit (dBm)	Scaling Factor	Drift (dB)	1g SAR (W/kg)	1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	5mm	1	-	Reduced	18900	1880	15.62	17.00	1.374	-0.02	0.568	0.780
	LTE Band 2	20M	QPSK	50	0	Front	5mm	1	-	Reduced	18900	1880	14.82	16.00	1.312	0.07	0.450	0.590
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	-	Reduced	18900	1880	15.62	17.00	1.374	0.06	0.780	1.072
33	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	-	Reduced	18700	1860	15.58	17.00	1.387	-0.05	0.962	1.334
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	-	Reduced	19100	1900	15.50	17.00	1.413	-0.09	0.653	0.922
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	Reduced	18900	1880	14.82	16.00	1.312	0.05	0.616	0.808
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	Reduced	18700	1860	14.68	16.00	1.355	-0.02	0.751	1.018
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	Reduced	19100	1900	14.66	16.00	1.361	0.06	0.514	0.700
	LTE Band 2	20M	QPSK	100	0	Back	5mm	1	-	Reduced	18900	1880	14.83	16.00	1.309	-0.07	0.620	0.812
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	Headset 1	Reduced	18700	1860	15.58	17.00	1.387	-0.02	0.918	1.273
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	Headset 2	Reduced	18700	1860	15.58	17.00	1.387	0.01	0.905	1.255
	LTE Band 2	20M	QPSK	1	0	Front	15mm	1	-	Full	18700	1860	22.39	24.00	1.449	0.05	0.752	1.089
	LTE Band 2	20M	QPSK	1	0	Front	15mm	1	-	Full	18900	1880	22.42	24.00	1.439	0.03	0.613	0.882
	LTE Band 2	20M	QPSK	1	0	Front	15mm	1	-	Full	19100	1900	22.31	24.00	1.476	0.01	0.703	1.037
	LTE Band 2	20M	QPSK	1	0	Back	23mm	1	-	Full	18700	1860	22.39	24.00	1.449	0.08	0.580	0.840
	LTE Band 2	20M	QPSK	1	0	Back	23mm	1	-	Full	18900	1880	22.42	24.00	1.439	0.03	0.513	0.738
	LTE Band 2	20M	QPSK	1	0	Back	23mm	1	-	Full	19100	1900	22.31	24.00	1.476	0.02	0.603	0.890
	LTE Band 5	10M	QPSK	1	0	Front	5mm	1	-	Full	20525	836.5	22.64	24.00	1.368	0.03	0.790	1.081
	LTE Band 5	10M	QPSK	25	0	Front	5mm	1	_	Full	20525	836.5	21.65	23.00	1.365	-0.02	0.524	0.715
	LTE Band 5	10M	QPSK	50	0	Front	5mm	1	_	Full	20525	836.5	21.62	23.00	1.374	-0.08	0.504	0.693
34	LTE Band 5	10M	QPSK	1	0	Back	5mm	1	-	Full	20525	836.5	22.64	24.00	1.368	0.07	0.940	1.286
-	LTE Band 5	10M	QPSK	25	0	Back	5mm	1	_	Full	20525	836.5	21.65	23.00	1.365	0.06	0.756	1.032
	LTE Band 5	10M	QPSK	50	0	Back	5mm	1	_	Full	20525	836.5	21.62	23.00	1.374	0.01	0.930	1.278
	LTE Band 5	10M	QPSK	1	0	Back	5mm	1	Headset 1	Full		836.5	22.64	24.00	1.368	0.05	0.912	1.247
	LTE Band 5	10M	QPSK	1	0	Back	5mm	1	Headset 2	Full	20525	836.5	22.64	24.00	1.368	0.02	0.904	1.236
-	LTE Band 7	20M	QPSK	1	0	Front	5mm	1	_	Reduced	21100	2535	18.27	19.50	1.327	0.08	0.560	0.743
	LTE Band 7	20M	QPSK	50	0	Front	5mm	1	_	Reduced	21100	2535	17.15	18.50	1.365	0.06	0.446	0.609
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	_	Reduced	21100	2535	18.27	19.50	1.327	-0.07	0.938	1.245
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	_	Reduced	20850	2510	18.21	19.50	1.346	-0.01	0.915	1.231
35	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	_	Reduced	21350	2560	18.19	19.50	1.352	0.07	1.000	1.352
-	LTE Band 7	20M	QPSK	1	0	Back	5mm	2	_	Reduced	21350	2560	18.19	19.50	1.352	0.04	0.860	1.163
	LTE Band 7	20M	QPSK	1	0	Back	5mm	3	_	Reduced	21350	2560	18.19	19.50	1.352	0.08	0.844	1.141
-	LTE Band 7	20M	QPSK	50	0	Back	5mm	1	-	Reduced	21100	2535	17.15	18.50	1.365	0.08	0.751	1.025
	LTE Band 7	20M	QPSK	50	0	Back	5mm	1	-	Reduced	20850	2510	16.98	18.50	1.419	0.01	0.718	1.019
	LTE Band 7		QPSK	50	0		5mm	1	-	Reduced			17.09	18.50	1.384	0.05	0.786	1.087
	LTE Band 7	20M	QPSK	100	0	Back	5mm	1	-	Reduced			17.11	18.50	1.377	0.09	0.736	1.014
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	Headset 1	Reduced	21350		18.19	19.50	1.352	0.03	0.957	1.294
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	Headset 2		21350		18.19	19.50	1.352	0.02	0.946	1.279
	LTE Band 7	20M	QPSK	1	0		15mm	1	-	Full	21100		22.45	24.00	1.429	0.01	0.279	0.399
	LTE Band 7	20M	QPSK	1	0		23mm	1	-	Full	21100		22.45	24.00	1.429	0.06	0.203	0.290
	LTE Band 66		QPSK	1	0	Front	5mm	1	-		132322		16.65	18.00	1.365	0.07	0.703	0.959
	LTE Band 66		QPSK	1	0	Front	5mm	1	_		132072		16.59	18.00	1.384	0.05	0.835	1.155
	LTE Band 66		QPSK	1	0	Front	5mm	1	-		132572		16.58	18.00	1.387	0.02	0.557	0.772
	LTE Band 66		QPSK	50	0	Front	5mm	1	-		132322		15.78	17.00	1.324	0.01	0.559	0.740
	LTE Band 66		QPSK	100	0	Front	5mm	1	-		132322		15.57	17.00	1.390	0.09	0.553	0.769
	LTE Band 66		QPSK	1	0	Back	5mm	1	-		132322		16.65	18.00	1.365	0.03	0.801	1.093
36	LTE Band 66		QPSK	1	0	Back	5mm	1	-		132072		16.59	18.00	1.384	-0.03	0.957	1.324
-	LTE Band 66		QPSK	1	0	Back	5mm	2	-		132072		16.59	18.00	1.384	0.02	0.881	1.219
	LTE Band 66		QPSK	1	0	Back	5mm	3	-		132072		16.59	18.00	1.384	0.01	0.891	1.233
	LTE Band 66		QPSK	1	0	Back	5mm	1	-		132572		16.58	18.00	1.387	-0.02	0.639	0.886
	LTE Band 66		QPSK	50	0	Back	5mm	1	-		132322		15.78	17.00	1.324	-0.09	0.635	0.841
	LTE Band 66		QPSK	50	0	Back	5mm	1	-		132072		15.73	17.00	1.340	0.03	0.753	1.009
	LIL Dallu 00	ZUIVI	जा जार	50	J	Dack	Jillill	'		, todaced	102012	1120	10.70	17.00	1.540	0.00	0.733	1.008

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SPORTON L	AB.	FCC SA	<i>R</i> 7	est	Repo	rt							Re	port No	o. : F/	4162325	<u>; </u>
LTE Band 66	20M	QPSK	50	0	Back	5mm	1	-	Reduced	132572	1770	15.62	17.00	1.374	0.01	0.501	0.688
LTE Band 66	20M	QPSK	100	0	Back	5mm	1	-	Reduced	132322	1745	15.57	17.00	1.390	0.06	0.633	0.880
LTE Band 66	20M	QPSK	1	0	Back	5mm	1	Headset 1	Reduced	132072	1720	16.59	18.00	1.384	0.05	0.933	1.291
LTE Band 66	20M	QPSK	1	0	Back	5mm	1	Headset 2	Reduced	132072	1720	16.59	18.00	1.384	-0.02	0.915	1.266
LTE Band 66	20M	QPSK	1	0	Front	15mm	1	-	Full	132072	1720	22.51	24.00	1.409	0.09	0.931	1.312
LTE Band 66	20M	QPSK	1	0	Front	15mm	1	-	Full	132322	1745	22.57	24.00	1.390	-0.02	0.726	1.009
LTE Band 66	20M	QPSK	1	0	Front	15mm	1	-	Full	132572	1770	22.47	24.00	1.422	0.06	0.582	0.828
LTE Band 66	20M	QPSK	1	0	Back	23mm	1	-	Full	132322	1745	22.57	24.00	1.390	0.08	0.558	0.776

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)		Tune-up Scaling Factor	Cycle	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	1	-	Full	1	2412	18.80	20.00	1.318	100	1.000	0.02	0.436	0.575
37	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	-	Full	1	2412	18.80	20.00	1.318	100	1.000	0.01	0.626	0.825
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	2	•	Full	1	2412	18.80	20.00	1.318	100	1.000	0.07	0.594	0.783
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	3	ı	Full	1	2412	18.80	20.00	1.318	100	1.000	0.08	0.571	0.753
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	-	Full	11	2462	18.60	20.00	1.380	100	1.000	-0.02	0.516	0.712

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
38	Bluetooth	1Mbps	Back	5mm	1	-	Full	39	2441	10.00	11.00	1.259	76.82	1.302	-0.04	0.059	0.097

<WLAN5G SAR>

										Avenage	Tuna IIIa	T	Dute	Duty Cyala	Dawar	Massurad	Donoutod
Plot	Band	Mode	Test	Gap	Sample	Headset	Power		Freq.	Average Power	Tune-Up Limit	Scaling		Duty Cycle Scaling	Drift	Measured 1g SAR	1g SAR
No.	Bana	modo	Position	(mm)	oupio		Reduction	· · · ·	(MHz)	(dBm)	(dBm)	Factor	%	Factor	(dB)	(W/kg)	(W/kg)
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	5mm	1	-	Reduced	46	5230	16.79	18.00	1.321	93.52	1.069	0.05	0.474	0.670
39	WLAN5.2GHz	802.11n-HT40 MCS0	Back	5mm	1	-	Reduced	46	5230	16.79	18.00	1.321	93.52	1.069	-0.09	0.742	1.048
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	5mm	2	-	Reduced	46	5230	16.79	18.00	1.321	93.52	1.069	0.06	0.732	1.034
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	5mm	3	-	Reduced	46	5230	16.79	18.00	1.321	93.52	1.069	0.01	0.729	1.030
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	5mm	1	-	Reduced	38	5190	13.90	15.50	1.445	93.52	1.069	0.05	0.399	0.617
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	15mm	1	-	Full	46	5230	17.53	19.00	1.403	93.52	1.069	0.01	0.186	0.279
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	23mm	1	-	Full	46	5230	17.53	19.00	1.403	93.52	1.069	0.04	0.196	0.294
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	5mm	1	-	Reduced	54	5270	15.75	17.00	1.334	93.52	1.069	0.02	0.323	0.460
40	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	1	-	Reduced	54	5270	15.75	17.00	1.334	93.52	1.069	-0.03	0.738	1.052
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	2	-	Reduced	54	5270	15.75	17.00	1.334	93.52	1.069	0.11	0.713	1.016
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	3	-	Reduced	54	5270	15.75	17.00	1.334	93.52	1.069	0.05	0.709	1.011
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	1	-	Reduced	62	5310	14.33	16.00	1.469	93.52	1.069	-0.13	0.588	0.923
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	1	-	Full	54	5270	17.55	19.00	1.396	93.52	1.069	-0.01	0.149	0.222
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	23mm	1	-	Full	54	5270	17.55	19.00	1.396	93.52	1.069	0.09	0.243	0.363
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	1	-	Reduced	138	5690	14.51	16.00	1.409	87.79	1.139	0.01	0.200	0.321
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	1	-	Reduced	138	5690	14.51	16.00	1.409	87.79	1.139	0.05	0.527	0.846
41	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	1	-	Reduced	106	5530	14.47	16.00	1.422	87.79	1.139	0.02	0.688	1.115
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	2	-	Reduced	106	5530	14.47	16.00	1.422	87.79	1.139	0.01	0.643	1.042
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	3	-	Reduced	106	5530	14.47	16.00	1.422	87.79	1.139	0.03	0.609	0.987
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	1	-	Full	138	5690	17.54	19.00	1.400	87.79	1.139	-0.07	0.174	0.277
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	23mm	1	-	Full	138	5690	17.54	19.00	1.400	87.79	1.139	-0.02	0.250	0.399
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	1	-	Full	155	5775	17.66	19.00	1.361	87.79	1.139	0.05	0.517	0.802
42	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	1	-	Full	155	5775	17.66	19.00	1.361	87.79	1.139	-0.09	0.759	1.177
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	2	-	Full	155	5775	17.66	19.00	1.361	87.79	1.139	0.04	0.744	1.154
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	3	-	Full	155	5775	17.66	19.00	1.361	87.79	1.139	0.05	0.712	1.104

Sporton International (Kunshan) Inc.

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15.4 Product specific 10g SAR

<GSM SAR>

	lot lo.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.		Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
		GSM1900	GPRS (2 Tx slots)	Front	0mm	1	Full	661	1880	27.52	29.00	1.406	0.02	0.925	1.301
		GSM1900	GPRS (2 Tx slots)	Back	0mm	1	Full	661	1880	27.52	29.00	1.406	0.07	1.340	1.884
		GSM1900	GPRS (2 Tx slots)	Bottom Side	0mm	1	Full	661	1880	27.52	29.00	1.406	0.04	2.180	3.065
4	43	GSM1900	GPRS (2 Tx slots)	Bottom Side	0mm	1	Full	512	1850.2	27.45	29.00	1.429	0.01	2.310	3.301
		GSM1900	GPRS (2 Tx slots)	Bottom Side	0mm	1	Full	810	1909.8	27.45	29.00	1.429	0.09	1.990	2.843

Report No. : FA162325

<WCDMA SAR>

V	Band WCDMA II WCDMA II	Mode RMC 12.2Kbps	Test Position	Gap (mm)	Sample	Power	~ !	Freq.	_ ~		·			
V V		RMC 12.2Kbps			Campie	Reduction	Ch.	(MHz)	Power	Limit	Scaling	Drift		10g SAR
V		RIVIC 12.2KDDS	Enamt.	, ,	4		0.400	` ,	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
V	WCDIMA II		Front	0mm	1	Reduced	9400		18.83	20.50	1.469	0.02	1.300	1.910
	ALODNAA II	RMC 12.2Kbps	Back	0mm	1	Reduced	9400		18.83	20.50	1.469	-0.07	1.460	2.145
l V	WCDMA II	RMC 12.2Kbps	Back	0mm	1	Reduced		1852.4	18.63	20.50	1.538	-0.02	1.630	2.507
	NCDMA II	RMC 12.2Kbps	Back	0mm	1	Reduced		1907.6	18.66	20.50	1.528	0.05	1.350	2.062
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	1	Reduced	9400		18.83	20.50	1.469	0.09	2.130	3.129
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	1	Reduced		1852.4	18.63	20.50	1.538	-0.04	2.220	3.415
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	2	Reduced		1852.4	18.63	20.50	1.538	0.04	2.140	3.292
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	3	Reduced		1852.4	18.63	20.50	1.538	0.07	2.200	3.384
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	1	Reduced		1907.6		20.50	1.528	-0.07	2.040	3.116
-	WCDMA II	RMC 12.2Kbps	Front	7mm	1	Full	9400		22.35	24.00	1.462	0.03	1.380	2.018
-	NCDMA II	RMC 12.2Kbps	Front	7mm	1	Full	_	1852.4	22.30	24.00	1.479	-0.02	1.430	2.115
	NCDMA II	RMC 12.2Kbps	Front	7mm	1	Full	_	1907.6		24.00	1.486	0.04	1.440	2.140
	NCDMA II	RMC 12.2Kbps	Back	9mm	1	Full	9400		22.35	24.00	1.462	0.05	1.490	2.179
V	NCDMA II	RMC 12.2Kbps	Back	9mm	1	Full	9262	1852.4	22.30	24.00	1.479	0.09	1.580	2.337
V	NCDMA II	RMC 12.2Kbps	Back	9mm	1	Full	9538	1907.6	22.28	24.00	1.486	0.05	1.610	2.392
V	NCDMA II	RMC 12.2Kbps	Bottom Side	10mm	1	Full	9400	1880	22.35	24.00	1.462	0.02	1.770	2.588
V	NCDMA II	RMC 12.2Kbps	Bottom Side	10mm	1	Full	9262	1852.4	22.30	24.00	1.479	0.03	1.810	2.677
V	NCDMA II	RMC 12.2Kbps	Bottom Side	10mm	1	Full	9538	1907.6	22.28	24.00	1.486	0.01	1.870	2.779
٧	VCDMA IV	RMC 12.2Kbps	Front	0mm	1	Reduced	1413	1732.6	19.93	21.50	1.435	0.05	1.490	2.139
٧	VCDMA IV	RMC 12.2Kbps	Front	0mm	1	Reduced	1312	1712.4	19.81	21.50	1.476	0.02	1.620	2.391
V	VCDMA IV	RMC 12.2Kbps	Front	0mm	1	Reduced	1513	1752.6	19.86	21.50	1.459	0.06	1.300	1.896
V	VCDMA IV	RMC 12.2Kbps	Back	0mm	1	Reduced	1413	1732.6	19.93	21.50	1.435	-0.07	1.290	1.852
V	VCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	1	Reduced	1413	1732.6	19.93	21.50	1.435	0.08	2.150	3.086
45 W	VCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	1	Reduced	1312	1712.4	19.81	21.50	1.476	-0.11	2.220	3.276
V	VCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	2	Reduced	1312	1712.4	19.81	21.50	1.476	0.02	2.060	3.040
V	VCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	3	Reduced	1312	1712.4	19.81	21.50	1.476	0.1	1.910	2.819
V	VCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	1	Reduced	1513	1752.6	19.86	21.50	1.459	0.06	2.040	2.976
M	VCDMA IV	RMC 12.2Kbps	Front	7mm	1	Full	1413	1732.6	22.25	24.00	1.496	0.08	1.410	2.110
M	VCDMA IV	RMC 12.2Kbps	Front	7mm	1	Full	1312	1712.4	22.18	24.00	1.521	0.05	1.490	2.266
M	VCDMA IV	RMC 12.2Kbps	Front	7mm	1	Full	1513	1752.6	22.12	24.00	1.542	0.01	1.420	2.189
M	VCDMA IV	RMC 12.2Kbps	Back	9mm	1	Full	1413	1732.6	22.25	24.00	1.496	0.03	1.390	2.080
W	VCDMA IV	RMC 12.2Kbps	Back	9mm	1	Full	1312	1712.4	22.18	24.00	1.521	0.09	1.480	2.250
W	VCDMA IV	RMC 12.2Kbps	Back	9mm	1	Full	1513	1752.6	22.12	24.00	1.542	0.04	1.440	2.220
M	VCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	1	Full	1413	1732.6	22.25	24.00	1.496	0.02	1.770	2.648
M	VCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	1	Full	1312	1712.4	22.18	24.00	1.521	0.01	1.820	2.767
M	VCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	1	Full	1513	1752.6	22.12	24.00	1.542	0.03	1.830	2.821
46 V	VCDMA V	RMC 12.2Kbps	Back	0mm	1	Full	_	836.4	22.44	24.00	1.432	0.01	0.717	1.027

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<FDD LTE SAR>

Plot	Donal	BW	N#ll -4:	RB	RB	Test	Gap	0	Power	O.b.	Freq.					Measured	
No.	Band	(MHz)	Modulation	Size	offset	Position	(mm)	Sample	Reduction	Ch.	(MHz)	Power (dBm)	Limit (dBm)	Scaling Factor	(dB)	10g SAR (W/kg)	10g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	0mm	1	Reduced	18900	1880	19.78	21.00	1.324	0.05	1.466	1.941
	LTE Band 2	20M	QPSK	50	0	Front	0mm	1	Reduced	18900	1880	18.75	20.00	1.334	0.05	1.151	1.535
	LTE Band 2	20M	QPSK	1	0	Back	0mm	1	Reduced	18900	1880	19.78	21.00	1.324	-0.07	1.610	2.132
	LTE Band 2	20M	QPSK	1	0	Back	0mm	1	Reduced	18700	1860	19.71	21.00	1.346	-0.02	1.750	2.355
	LTE Band 2	20M	QPSK	1	0	Back	0mm	1	Reduced	19100	1900	19.67	21.00	1.358	0.05	1.500	2.037
	LTE Band 2	20M	QPSK	50	0	Back	0mm	1	Reduced	18900	1880	18.75	20.00	1.334	0.08	1.270	1.694
	LTE Band 2	20M	QPSK	100	0	Back	0mm	1	Reduced	18900	1880	18.66	20.00	1.361	0.05	1.280	1.743
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	18900	1880	19.78	21.00	1.324	0.09	2.300	3.046
47	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	18700	1860	19.71	21.00	1.346	-0.06	2.410	3.244
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	19100	1900	19.67	21.00	1.358	0.06	2.220	3.015
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	1	Reduced	18900	1880	18.75	20.00	1.334	0.05	1.830	2.440
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	1	Reduced	18700	1860	18.68	20.00	1.355	0.09	1.900	2.575
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	1	Reduced	19100	1900	18.64	20.00	1.368	0.08	1.750	2.394
	LTE Band 2	20M	QPSK	100	0	Bottom Side	0mm	1	Reduced	18900	1880	18.66	20.00	1.361	0.06	1.830	2.491
	LTE Band 2	20M	QPSK	1	0	Front	7mm	1	Full	18900	1880	22.42	24.00	1.439	-0.07	1.350	1.942
	LTE Band 2	20M	QPSK	1	0	Back	9mm	1	Full	18900	1880	22.42	24.00	1.439	0.02	1.490	2.144
	LTE Band 2	20M	QPSK	1	0	Back	9mm	1	Full	18700	1860	22.39	24.00	1.449	0.03	1.580	2.289
	LTE Band 2	20M	QPSK	1	0	Back	9mm	1	Full	19100	1900	22.31	24.00	1.476	0.04	1.610	2.376
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10mm	1	Full	18900	1880	22.42	24.00	1.439	0.07	1.980	2.849
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10mm	1	Full	18700	1860	22.39	24.00	1.449	0.01	2.060	2.984
	LTE Band 2	20M	QPSK	1	0	Bottom Side		1	Full	19100	1900	22.31	24.00	1.476	0.06	2.090	3.084
48	LTE Band 5	10M	QPSK	1	0	Back	0mm	1	Full	20525		22.64	24.00	1.368	-0.04	0.914	1.250
	LTE Band 5	10M	QPSK	25	0	Back	0mm	1	Full		836.5	21.65	23.00	1.365	-0.01	0.911	1.243
	LTE Band 5	10M	QPSK	1	0	Back	0mm	2	Full	20525		22.64	24.00	1.368	0.03	0.877	1.199
	LTE Band 5	10M	QPSK	1	0	Back	0mm	3	Full		836.5	22.64	24.00	1.368	0.01	0.865	1.183
	LTE Band 7	20M	QPSK	1	0	Front	0mm	1	Reduced	21100	2535	19.75	21.00	1.334	0.08	1.458	1.944
	LTE Band 7	20M	QPSK	50	0	Front	0mm	1	Reduced	21100	2535	18.64	20.00	1.368	0.03	1.167	1.596
	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	Reduced	21100	2535	19.75	21.00	1.334	0.03	2.380	3.174
	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	Reduced	20850	2510	19.65	21.00	1.365	0.03	2.310	3.152
10	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	Reduced	21350	2560	19.71	21.00	1.346	0.03	2.410	3.244
73	LTE Band 7	20M	QPSK	1	0	Back	0mm	2	Reduced	21350	2560	19.71	21.00	1.346	0.01	1.860	2.503
	LTE Band 7	20M	QPSK	1	0	Back	0mm	3	Reduced	21350	2560	19.71	21.00	1.346	0.04	1.750	2.355
	LTE Band 7	20M	QPSK	50	0	Back	0mm	1	Reduced	21100	2535	18.64	20.00	1.368	0.01	1.900	2.599
	LTE Band 7	20M	QPSK	50	0	Back	0mm	1	Reduced	20850	2510	18.58	20.00	1.387	0.06	1.890	2.621
	LTE Band 7	20M	QPSK	50	0		0mm	1	Reduced			18.58	20.00	1.387	0.05	1.900	2.635
	LTE Band 7	20M	QPSK	100	0	Back	0mm	1	Reduced			18.61	20.00	1.377	0.09	1.880	2.589
	LTE Band 7	20M	QPSK	1	0	Bottom Side		1	Reduced	21100		19.75	21.00	1.334	0.03	1.740	2.320
	LTE Band 7	20M	QPSK	1	0	Bottom Side		1	Reduced	20850		19.65	21.00	1.365	0.05	1.880	2.565
	LTE Band 7	20M	QPSK	1	0	Bottom Side		1	Reduced			19.71	21.00	1.346	0.06	1.670	2.248
	LTE Band 7	20M	QPSK	50	0	Bottom Side		1	Reduced	21100		18.64	20.00	1.368	-0.07	1.390	1.901
	LTE Band 7	20M	QPSK	100	0	Bottom Side		1	Reduced	21100		18.61	20.00	1.377	0.06	1.370	1.887
	LTE Band 7	20M	QPSK	1	0	Front	7mm	1	Full	21100		22.45	24.00	1.429	-0.07	0.483	0.690
		20M	QPSK	1	0	Back	9mm	1	Full	21100		22.45	24.00	1.429	0.05	0.586	0.837
	LTE Band 7	20M	QPSK	1	0	Bottom Side			Full	21100		22.45	24.00	1.429	0.09	0.474	0.677
	LTE Band 66		QPSK	1	0	Front	0mm	1	Reduced	132322		20.91	22.00	1.429	0.03	1.604	2.062
	LTE Band 66		QPSK	1	0	Front	0mm	1	Reduced	132322		20.83	22.00	1.309	0.04	1.849	2.421
	LTE Band 66		QPSK	1	0	Front	0mm	1	Reduced	132572		20.89	22.00	1.291	0.02	1.379	1.781
	LTE Band 66		QPSK	50	0	Front	0mm	1	Reduced	132372		19.88	21.00	1.291	0.03	1.269	1.642
	LTE Band 66		QPSK	100	0	Front	0mm	1	Reduced	132322		19.86	21.00	1.300	0.05	1.269	1.650
-	LTE Band 66		QPSK	1	0	Back	0mm	1	Reduced	132322		20.91	22.00	1.285	0.05	1.348	1.733
	LTE Band 66		QPSK	50	0	Back	_	1	Reduced			19.88	21.00	1.203	0.08	1.066	1.733
	LIL Dailu 00	ZUIVI	QF3N	JU	U	Dack	0mm		Neduced	102022	1745	13.00	∠1.00	1.294	0.13	1.000	1.300

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SP	PORTON LAB.	FCC	SAR 1	Tes	t Re	eport								Repo	rt No.	: FA16	2325
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	132322	1745	20.91	22.00	1.285	0.05	2.304	2.961
50	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	132072	1720	20.83	22.00	1.309	-0.1	2.450	3.207
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	132572	1770	20.89	22.00	1.291	0.08	2.210	2.854
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	1	Reduced	132322	1745	19.88	21.00	1.294	0.06	1.834	2.374
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	1	Reduced	132072	1720	19.74	21.00	1.337	-0.09	1.933	2.584
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	1	Reduced	132572	1770	19.75	21.00	1.334	-0.09	1.740	2.320
	LTE Band 66	20M	QPSK	100	0	Bottom Side	0mm	1	Reduced	132322	1745	19.86	21.00	1.300	0.02	1.830	2.379
	LTE Band 66	20M	QPSK	1	0	Front	7mm	1	Full	132322	1745	22.57	24.00	1.390	-0.04	1.390	1.932
	LTE Band 66	20M	QPSK	1	0	Front	7mm	1	Full	132072	1720	22.51	24.00	1.409	-0.05	1.520	2.142
	LTE Band 66	20M	QPSK	1	0	Front	7mm	1	Full	132572	1770	22.47	24.00	1.422	-0.03	1.550	2.205
	LTE Band 66	20M	QPSK	1	0	Back	9mm	1	Full	132322	1745	22.57	24.00	1.390	0.08	1.250	1.737
	LTE Band 66	20M	QPSK	1	0	Bottom Side	10mm	1	Full	132322	1745	22.57	24.00	1.390	0.04	1.880	2.613
	LTE Band 66	20M	QPSK	1	0	Bottom Side	10mm	1	Full	132072	1720	22.51	24.00	1.409	0.01	1.910	2.692
	LTE Band 66	20M	QPSK	1	0	Bottom Side	10mm	1	Full	132572	1770	22.47	24.00	1.422	0.09	1.930	2.745

<WLAN5G SAR>

Plo No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	1	Full	46	5230	17.53	19.00	1.403	93.52	1.069	-0.07	0.575	0.862
51	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	1	Full	46	5230	17.53	19.00	1.403	93.52	1.069	-0.02	0.943	1.414
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	2	Full	46	5230	17.53	19.00	1.403	93.52	1.069	0.07	0.885	1.327
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	3	Full	46	5230	17.53	19.00	1.403	93.52	1.069	0.08	0.871	1.306
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	1	Full	54	5270	17.55	19.00	1.396	93.52	1.069	0.11	0.553	0.825
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	1	Full	54	5270	17.55	19.00	1.396	93.52	1.069	0.05	0.686	1.024
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	1	Full	54	5270	17.55	19.00	1.396	93.52	1.069	0.09	0.103	0.154
52	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	1	Full	54	5270	17.55	19.00	1.396	93.52	1.069	0.09	0.973	1.452
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	2	Full	54	5270	17.55	19.00	1.396	93.52	1.069	0.08	0.758	1.131
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	3	Full	54	5270	17.55	19.00	1.396	93.52	1.069	0.07	0.940	1.403
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	1	Full	138	5690	17.54	19.00	1.400	87.79	1.139	-0.05	0.374	0.596
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	1	Full	138	5690	17.54	19.00	1.400	87.79	1.139	0.06	0.706	1.125
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	1	Full	138	5690	17.54	19.00	1.400	87.79	1.139	-0.07	0.145	0.231
53	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	1	Full	138	5690	17.54	19.00	1.400	87.79	1.139	0.09	0.724	1.154
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	2	Full	138	5690	17.54	19.00	1.400	87.79	1.139	0.03	0.656	1.046
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	3	Full	138	5690	17.54	19.00	1.400	87.79	1.139	0.04	0.703	1.121
54	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	1	Full	155	5775	17.66	19.00	1.361	87.79	1.139	0.08	0.827	1.282
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	2	Full	155	5775	17.66	19.00	1.361	87.79	1.139	0.08	0.704	1.092
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	3	Full	155	5775	17.66	19.00	1.361	87.79	1.139	0.08	0.720	1.116

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15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)		Tune-up Scaling Factor				Measured 1g SAR (W/kg)		Reported 1g SAR (W/kg)
1st	WLAN5.8GHz	-	-	-	1	802.11ac-VHT80 MCS0	Top Side	5mm	1	Reduced	155	5775	17.34	18.00	1.164	87.79	1.139	-0.04	0.900	1	1.193
2nd	WLAN5.8GHz	-	-	-	1	802.11ac-VHT80 MCS0	Top Side	5mm	1	Reduced	155	5775	17.34	18.00	1.164	87.79	1.139	0.09	0.865	1.040	1.147
1st	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	1	Full	20525	836.5	22.64	24.00	1.368	1	-	0.07	0.940	1	1.286
2nd	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	1	Full	20525	836.5	22.64	24.00	1.368	ı	-	0.02	0.878	1.071	1.201
1st	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	1	Reduced	132072	1720	16.59	18.00	1.384	1	-	-0.03	0.957	1	1.324
2nd	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	1	Reduced	132072	1720	16.59	18.00	1.384	-	-	0.01	0.932	1.027	1.289
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	1	Reduced	9262	1852.4	15.51	17.00	1.409	1	-	0.05	0.994	1	1.401
2nd	WCDMA II	-	-	-	1	RMC 12.2Kbps	Back	5mm	1	Reduced	9262	1852.4	15.51	17.00	1.409	ı	-	0.01	0.981	1.013	1.383
1st	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	1	Reduced	21350	2560	18.19	19.50	1.352		-	0.07	1.000	1	1.352
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	1	Reduced	21350	2560	18.19	19.50	1.352	-	-	-0.01	0.979	1.021	1.324

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<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Power		Tune-up Scaling Factor		Measured 10g SAR (W/kg)		Reported 10g SAR (W/kg)
1st	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	132072	1720	20.83	22.00	1.309	-0.1	2.450	1	3.207
2nd	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	132072	1720	20.83	22.00	1.309	-0.09	2.390	1.025	3.129
1st	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	18700	1860	19.71	21.00	1.346	-0.06	2.410	1	3.244
2nd	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	1	Reduced	18700	1860	19.71	21.00	1.346	0.02	2.350	1.026	3.163
1st	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	Reduced	21350	2560	19.71	21.00	1.346	0.07	2.410	1	3.244
2nd	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	Reduced	21350	2560	19.71	21.00	1.346	-0.03	2.330	1.034	3.136

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 \leq 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.

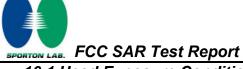
16. Simultaneous Transmission Analysis

			Portable	Handset	
No.	Simultaneous Transmission Configurations	Head	Body-worn	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), LTE supports VoLTE
 operation.
- 2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- 4. This device 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. WIFI 5.3/5.3GHz has no hotspot function.
- 6. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- 7. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- 8. According to the EUT characteristic, WLAN 5GHz and Bluetooth can't transmit simultaneously.
- 9. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
- 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.
 - v) The SPLSR calculated results please refer to section 16.5.



16.1 Head Exposure Conditions

			1	2	3	4	1+2	1+3	1+4	
WWA	N Band	Exposure Position	WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed	Summed	Summed	
		Position	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	10g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
		Right Cheek	0.298	0.392	0.734	0.118	0.69	1.03	0.42	
	0014050	Right Tilted	0.148	0.355	0.921	0.118	0.50	1.07	0.27	
	GSM850	Left Cheek	0.309	1.012	0.970	0.118	1.32	1.28	0.43	
0014		Left Tilted	0.166	0.875	1.174	0.118	1.04	1.34	0.28	
GSM		Right Cheek	0.191	0.392	0.734	0.118	0.58	0.93	0.31	
	00144000	Right Tilted	0.120	0.355	0.921	0.118	0.48	1.04	0.24	
	GSM1900	Left Cheek	0.169	1.012	0.970	0.118	1.18	1.14	0.29	
		Left Tilted	0.156	0.875	1.174	0.118	1.03	1.33	0.27	
		Right Cheek	0.303	0.392	0.734	0.118	0.70	1.04	0.42	
	WODAA !!	Right Tilted	0.212	0.355	0.921	0.118	0.57	1.13	0.33	
	WCDMA II	Left Cheek	0.257	1.012	0.970	0.118	1.27	1.23	0.38	
		Left Tilted	0.260	0.875	1.174	0.118	1.14	1.43	0.38	
		Right Cheek	0.349	0.392	0.734	0.118	0.74	1.08	0.47	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Right Tilted	0.238	0.355	0.921	0.118	0.59	1.16	0.36	
WCDMA	WCDMA IV	Left Cheek	0.304	1.012	0.970	0.118	1.32	1.27	0.42	
		Left Tilted	0.260	0.875	1.174	0.118	1.14	1.43	0.38	
		Right Cheek	0.514	0.392	0.734	0.118	0.91	1.25	0.63	
)A(CDA4A) (Right Tilted	0.357	0.355	0.921	0.118	0.71	1.28	0.48	
	WCDMA V	WCDMA V	Left Cheek	0.539	1.012	0.970	0.118	1.55	1.51	0.66
		Left Tilted	0.368	0.875	1.174	0.118	1.24	1.54	0.49	
		Right Cheek	0.276	0.392	0.734	0.118	0.67	1.01	0.39	
	LTE Band 2	Right Tilted	0.213	0.355	0.921	0.118	0.57	1.13	0.33	
	LIE Band 2	Left Cheek	0.243	1.012	0.970	0.118	1.26	1.21	0.36	
		Left Tilted	0.214	0.875	1.174	0.118	1.09	1.39	0.33	
		Right Cheek	0.527	0.392	0.734	0.118	0.92	1.26	0.65	
	LTE Band 5	Right Tilted	0.352	0.355	0.921	0.118	0.71	1.27	0.47	
	LIE Band 5	Left Cheek	0.517	1.012	0.970	0.118	1.53	1.49	0.64	
1.75		Left Tilted	0.310	0.875	1.174	0.118	1.19	1.48	0.43	
LTE		Right Cheek	0.279	0.392	0.734	0.118	0.67	1.01	0.40	
	LTE Bond 7	Right Tilted	0.096	0.355	0.921	0.118	0.45	1.02	0.21	
	LTE Band 7	Left Cheek	0.141	1.012	0.970	0.118	1.15	1.11	0.26	
		Left Tilted	0.103	0.875	1.174	0.118	0.98	1.28	0.22	
		Right Cheek	0.306	0.392	0.734	0.118	0.70	1.04	0.42	
	LTE Band 66	Right Tilted	0.204	0.355	0.921	0.118	0.56	1.13	0.32	
	LIE Dand 66	Left Cheek	0.268	1.012	0.970	0.118	1.28	1.24	0.39	
		Left Tilted	0.203	0.875	1.174	0.118	1.08	1.38	0.32	

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16.2 Hotspot Exposure Conditions

			1	2	3	4	1+2	1+3	1+4	
ww	AN Band	Exposure	WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed	Summed	Summed	Case No
****/	ur Bana	Position	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)	0400110
		Front	0.518	0.575	0.412	0.097	1.09	0.93	0.62	
		Back	0.756	0.825	0.866	0.097	1.58	1.62	0.85	1
	0014050	Left side	0.464			0.097	0.46	0.46	0.56	
	GSM850	Right side	0.393	0.540	0.216	0.097	0.93	0.61	0.49	
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	
0014		Bottom side	0.278			0.097	0.28	0.28	0.38	
GSM		Front	0.679	0.575	0.412	0.097	1.25	1.09	0.78	
		Back	1.217	0.825	0.866	0.097	2.04	2.08	1.31	2&3
	GSM1900	Left side	0.041			0.097	0.04	0.04	0.14	
	G2M1900	Right side	0.046	0.540	0.216	0.097	0.59	0.26	0.14	
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	
		Bottom side	1.079			0.097	1.08	1.08	1.18	
		Front	0.731	0.575	0.412	0.097	1.31	1.14	0.83	
		Back	1.401	0.825	0.866	0.097	2.23	2.27	1.50	4&5
	WCDMA II	Left side	0.038			0.097	0.04	0.04	0.14	
	WCDIVIA II	Right side	0.069	0.540	0.216	0.097	0.61	0.29	0.17	
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	
		Bottom side	1.385			0.097	1.39	1.39	1.48	
		Front	1.059	0.575	0.412	0.097	1.63	1.47	1.16	6
		Back	1.294	0.825	0.866	0.097	2.12	2.16	1.39	7&8
MCDMA	WCDMA IV	Left side	0.039			0.097	0.04	0.04	0.14	
NCDMA	WCDIMA IV	Right side	0.102	0.540	0.216	0.097	0.64	0.32	0.20	
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	
	-	Bottom side	1.362			0.097	1.36	1.36	1.46	
	WCDMA V	Front	0.796	0.575	0.412	0.097	1.37	1.21	0.89	
		Back	1.339	0.825	0.866	0.097	2.16	2.21	1.44	9&10
		Left side	0.712			0.097	0.71	0.71	0.81	
		Right side	0.597	0.540	0.216	0.097	1.14	0.81	0.69	
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	
		Bottom side	0.382			0.097	0.38	0.38	0.48	
		Front	0.780	0.575	0.412	0.097	1.36	1.19	0.88	
		Back	1.334	0.825	0.866	0.097	2.16	2.20	1.43	11&12
	LTE Band 2	Left side	0.038			0.097	0.04	0.04	0.14	
	LIE Band 2	Right side	0.058	0.540	0.216	0.097	0.60	0.27	0.16	
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	
		Bottom side	1.318			0.097	1.32	1.32	1.42	
		Front	1.081	0.575	0.412	0.097	1.66	1.49	1.18	13
		Back	1.286	0.825	0.866	0.097	2.11	2.15	1.38	14&15
	LTE Band 5	Left side	0.770			0.097	0.77	0.77	0.87	
	LIL Dailu 3	Right side	0.762	0.540	0.216	0.097	1.30	0.98	0.86	
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	· · · · · · · · · · · · · · · · · · ·
LTE		Bottom side	0.449			0.097	0.45	0.45	0.55	
LIE		Front	0.743	0.575	0.412	0.097	1.32	1.16	0.84	
		Back	1.352	0.825	0.866	0.097	2.18	2.22	1.45	16&17
	LTE Band 7	Left side	0.073			0.097	0.07	0.07	0.17	
	LIL Dailu I	Right side	0.272	0.540	0.216	0.097	0.81	0.49	0.37	
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	
		Bottom side	1.275			0.097	1.28	1.28	1.37	
		Front	1.155	0.575	0.412	0.097	1.73	1.57	1.25	18
		Back	1.324	0.825	0.866	0.097	2.15	2.19	1.42	19&20
	LTE Band 66	Left side	0.045			0.097	0.05	0.05	0.14	<u> </u>
	LIL DailU 00	Right side	0.087	0.540	0.216	0.097	0.63	0.30	0.18	<u> </u>
		Top side		0.745	1.193	0.097	0.75	1.19	0.10	
		Bottom side	1.297			0.097	1.30	1.30	1.39	

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16.3 Body-Worn Accessory Exposure Conditions

			1	2	3	4	1+2	1+3	1+4	
WWA	N Band	Exposure Position	WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed	Summed	Summed	Case No
		. 001011	1g SAR (W/kg)							
	GSM850	Front	0.518	0.575	0.802	0.097	1.09	1.32	0.62	
GSM	GSIVIOSO	Back	0.756	0.825	1.177	0.097	1.58	1.93	0.85	22
GGIVI	GSM1900	Front	0.679	0.575	0.802	0.097	1.25	1.48	0.78	
	G3W1900	Back	1.217	0.825	1.177	0.097	2.04	2.39	1.31	2&23
	WCDMA II	Front	0.731	0.575	0.802	0.097	1.31	1.53	0.83	
	WCDIVIA II	Back	1.401	0.825	1.177	0.097	2.23	2.58	1.50	4&24
WCDMA	WCDMA IV	Front	1.059	0.575	0.802	0.097	1.63	1.86	1.16	6&25
WCDIVIA	WCDIVIA IV	Back	1.294	0.825	1.177	0.097	2.12	2.47	1.39	7&26
	WCDMA V	Front	0.796	0.575	0.802	0.097	1.37	1.60	0.89	34
	WCDIVIA V	Back	1.339	0.825	1.177	0.097	2.16	2.52	1.44	9&27
	LTE Band 2	Front	0.780	0.575	0.802	0.097	1.36	1.58	0.88	
	LIE Band 2	Back	1.334	0.825	1.177	0.097	2.16	2.51	1.43	11&28
	LTE Band 5	Front	1.081	0.575	0.802	0.097	1.66	1.88	1.18	13&29
LTE	LIE Band 5	Back	1.286	0.825	1.177	0.097	2.11	2.46	1.38	14&30
LIE	LTE Band 7	Front	0.743	0.575	0.802	0.097	1.32	1.55	0.84	
	LIE Band /	Back	1.352	0.825	1.177	0.097	2.18	2.53	1.45	16&31
	LTE Band 66	Front	1.155	0.575	0.802	0.097	1.73	1.96	1.25	18&32
	LIE Dand 00	Back	1.324	0.825	1.177	0.097	2.15	2.50	1.42	19&33

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				3	1+3
WWA	\N Band	Exposure Position	WWAN	5GHz WLAN	Summed
		2,,p350,101, 05,1101.	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM	GSM1900	Front at 15mm	0.634	0.279	0.91
GSIVI	GSW1900	Back at 23mm	0.377	0.399	0.78
	WODMAII	Front at 15mm	1.103	0.279	1.38
\\\CD\\\\	WCDMA II	Back at 23mm	0.781	0.399	1.18
WCDMA	MODMA IV	Front at 15mm	1.282	0.279	1.56
	WCDMA IV	Back at 23mm	0.821	0.399	1.22
	1.TE D 1.0	Front at 15mm	1.089	0.279	1.37
	LTE Band 2	Back at 23mm	0.890	0.399	1.29
	1.TE D. 1.7	Front at 15mm	0.399	0.279	0.68
LTE	LTE Band 7	Back at 23mm	0.290	0.399	0.69
	1.TE D. 1.00	Front at 15mm	1.312	0.279	1.59
	LTE Band 66	Back at 23mm	0.776	0.399	1.18

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16.4 Product Specific 10g SAR Exposure Conditions

Remark:

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg

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			1	2	e to 1g hotspot SAR is <	
ww.	AN Band	Exposure Position	WWAN	5GHz WLAN	Summed	Case No
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
		Front	1.301	0.825	2.13	
		Back	1.884	1.125	3.01	
		Left side		23	0.00	
GSM	GSM1900	Right side		0.231	0.23	
		Top side		1.452	1.45	
		Bottom side	3.301	1.102	3.30	
		Front	1.910	0.825	2.74	
		Back	2.507	1.125	3.63	
		Left side	2.001	1.120	0.00	
	WCDMA II	Right side		0.231	0.23	
		Top side		1.452	1.45	
		Bottom side	3.415	1.102	3.42	
		Front	2.391	0.825	3.22	
		Back	1.852	1.125	2.98	
		Left side	1.002	1.120	0.00	
WCDMA	WCDMA IV	Right side		0.231	0.23	
		Top side		1.452	1.45	
		Bottom side	3.276	1.402	3.28	
		Front	0.270	0.825	0.83	
		Back	1.027	1.125	2.15	
		Left side	1.027	1.120	0.00	
	WCDMA V	Right side		0.231	0.23	
		Top side		1.452	1.45	
		Bottom side		1:402	0.00	
		Front	1.941	0.825	2.77	
		Back	2.355	1.125	3.48	
		Left side	2.000	1.125	0.00	
	LTE Band 2	Right side		0.231	0.23	
		Top side		1.452	1.45	
		Bottom side	3.244	1.402	3.24	
		Front	0.244	0.825	0.83	
		Back	1.250	1.125	2.38	
		Left side	1.200	1.120	0.00	
	LTE Band 5	Right side		0.231	0.23	
		Top side		1.452	1.45	
		Bottom side		1:402	0.00	
LTE		Front	1.944	0.825	2.77	
		Back	3.244	1.125	4.37	21
		Left side	J.244	1.123	0.00	21
	LTE Band 7	Right side		0.231	0.00	
		Top side		1.452	1.45	
		Bottom side	2.565	1.402	2.57	
		Front	2.421	0.825	3.25	
		Back	1.733	1.125	2.86	
		Left side	1.733	1.123	0.00	
	LTE Band 66	Right side		0.231	0.00	
		Top side		1.452	1.45	
			2 207	1.402		
		Bottom side	3.207		3.21	

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				2	1+2
WV	VAN Band	Exposure Position	WWAN	5GHz WLAN	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
		Front at 7mm	2.140	0.825	2.97
	WCDMA II	Back at 9mm	2.392	1.125	3.52
MCDMA		Bottom side at 10mm	2.779		2.78
VCDMA —		Front at 7mm	2.266	0.825	3.09
	WCDMA IV	Back at 9mm	2.250	1.125	3.38
		Bottom side at 10mm	2.821		2.82
		Front at 7mm	1.942	0.825	2.77
	LTE Band 2	Back at 9mm	2.376	1.125	3.50
		Bottom side at 10mm	3.084		3.08
		Front at 7mm	0.690	0.825	1.52
LTE	LTE Band 7	Back at 9mm	0.837	1.125	1.96
		Bottom side at 10mm	0.677		0.68
		Front at 7mm	2.205	0.825	3.03
	LTE Band 66	Back at 9mm	1.737	1.125	2.86
		Bottom side at 10mm	2.745		2.75

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Chose 5GHz WLAN Front/Back at 0mm as Front at 7mm, Back at 9mm SAR to do co-located with WWAN analysis.

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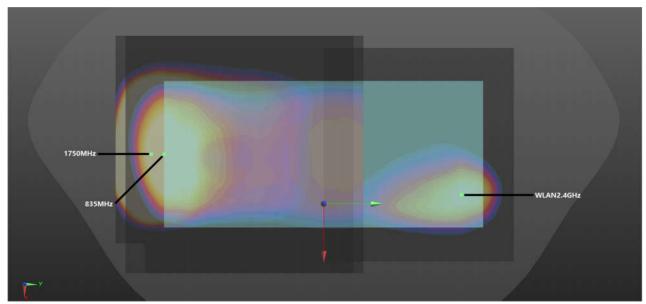
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16.5 SPLSR Evaluation and Analysis

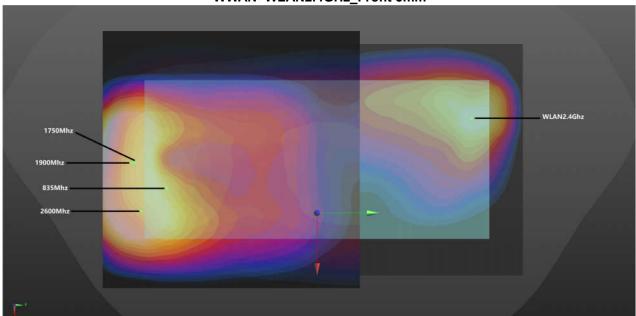
General Note:

- 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.
- SPLSR = (SAR1 + SAR2)1.5 / (min. separation distance, mm). If SPLSR ≤ 0.04 for 1g SAR and SPLSR ≤ 0.10 for 2. 10g SAR, simultaneously transmission SAR measurement is not necessary.

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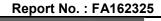
WWAN+WLAN2.4GHz_Front 5mm

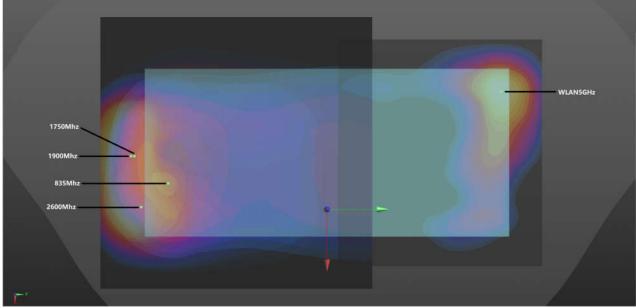


WWAN+WLAN2.4GHz_Back 5mm

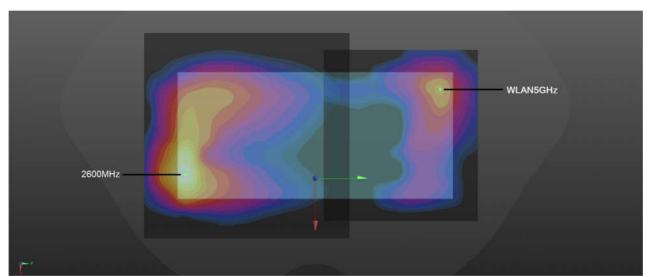
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WWAN+WLAN5GHz_Back 5mm



WWAN+WLAN5GHz_Back 0mm

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				Gap	SAP no	ak locatio	n (mm)	3D			
Case 1	Band	Position	SAR (W/kg)	(mm)	X	Y	Z	distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case I	GSM 850	Back	0.756	5	13.5	-76.4	0.58	153.0	1.62	0.01	Not required
	WLAN5GHz	Daok	0.866	5	-26.2	71.4	0.57		1.02	0.01	Not required
0	Band	Position	SAR (W/kg)	Gap (mm)	SAR pe X	ak locatio	n (mm) Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 2	GSM 1900	Dools	1.217	5	-10.4	-85	0.46	161.0	2.04	0.00	Not required
	WLAN2.4G	Back	0.825	5	-19.2	76	0.6	161.2	2.04	0.02	Not required
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed	SPLSR	Simultaneous
Case 3	Ballu	FUSILIUII	SAR (W/kg)	(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
Case 5	GSM 1900	Back	1.217	5	-10.4	-85	0.46	157.2	2.08	0.02	Not required
	WLAN5G	Dack	0.866	5	-26.2	71.4	0.57		2.00	0.02	Not required
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed	SPLSR	Simultaneous
Case 4	Dallu	Position	SAR (W/kg)	(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
Case 4	WCDMA II	Back	1.401	5	-4.9	-81.1	0.49	157.7	2.23	0.02	Not required
	WLAN2.4G	Dack	0.825	5	-19.2	76	0.6	157.7	2.23	0.02	Not required
		B	0.45 (14/1)	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
O	Band	Position	SAR (W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 5	WCDMA II		1.401	5	-4.9	-81.1	0.49				
	WLAN5G	Back	0.866	5	-26.2	71.4	0.57	154.0	2.27	0.02	Not required
				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 6	WCDMA IV		1.059	5	4.8	-87	0.53	(11111)			
	WLAN2.4G	Front	0.575	5	17.4	74.6	0.61	162.1	1.63	0.01	Not required
				Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
	Band	Position	SAR (W/kg)	(mm)	X	Υ	z	distance	SAR (W/kg)	Results	SAR
Case 7	WCDMA IV		1.294	5	-4.9	-81.1	0.49	(mm)			
	WLAN2.4G	Back	0.825	5	-19.2	76	0.43	157.7	2.12	0.02	Not required
	112 112 110		0.020	Gap		ak locatio		3D	O	CDI CD	Cincultana suc
	Band	Position	SAR (W/kg)	(mm)	Х	Υ	Z	distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 8	WCDMA IV		1.294	5	-4.9	-81.1	0.49	(mm)	, ,,		
	WLAN5G	Back	0.866	5	-26.2	71.4	0.57	154.0	2.16	0.02	Not required
	112 1100		0.000	Gap		ak locatio		3D	Comment	SPLSR	Cincultana suc
	Band	Position	SAR (W/kg)	(mm)	X	Υ	z	distance	Summed SAR (W/kg)	Results	Simultaneous SAR
Case 9	WCDMA V		1.339	5	13.5	-70.4	0.59	(mm)			
	WLAN2.4G	Back	0.825	5	-19.2	76	0.6	150.0	2.16	0.02	Not required
	WE/WZ.40		0.020	Gap		ak locatio	4 .	3D		001.00	0: "
	Band	Position	SAR (W/kg)	(mm)	X	Y	z	distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 10	WCDMA V		1.339	5	13.5	-70.4	0.59	(mm)	, 5,		
	WLAN5G	Back	0.866	5	-26.2	71.4	0.59	147.3	2.21	0.02	Not required
	WEARING		0.000	Gap		ak locatio		3D		001.00	0: 1
	Band	Position	SAR (W/kg)	(mm)	X	Y	Z	distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 11	LTE Band 2		1.334	5	-4.9	-83.5	0.51	(mm)	(9)		
		Back						160.1	2.16	0.02	Not required
	WLAN2.4G		0.825	5 Gap	-19.2	76 ak locatio	0.6	3D		001-00-	0
	Band	Position	SAR (W/kg)					distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 12	LTE Dev 10		4.004	(mm)	X	Y 02.5	Z 0.51	(mm)	or are (Tring)	Troounts	
	LTE Band 2	Back	1.334	5	-4.9	-83.5	0.51	156.4	2.20	0.02	Not required
	WLAN5G		0.866	5 Con	-26.2	71.4	0.57	3D			
	Band	Position	SAR (W/kg)	Gap		ak locatio		distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 13	LTE D			(mm)	X	Υ	Z	(mm)	SAIT (W/Kg)	Results	- JAK
	LTE Band 5	Front	1.081	5	0	-80.5	0.64	156.1	1.66	0.01	Not required
	WLAN2.4G		0.575	5	17.4	74.6	0.61	3D			
Case 14	Band	Position	SAR (W/kg)	Gap		ak locatio	· · ·	distance	Summed	SPLSR	Simultaneous
				(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR

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	LTE Band 5	Back	1.286	5	11.9	-73.3	0.59	152.5	2.11	0.02	Not required
	WLAN2.4G	Dack	0.825	5	-19.2	76	0.6	152.5	2.11	0.02	Not required
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
Case 15		Position	SAR (W/kg)	(mm)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 15	LTE Band 5	Back	1.286	5	11.9	-73.3	0.59	149.6	2.15	0.02	Not required
	WLAN5G	Dack	0.866	5	-26.2	71.4	0.57	143.0	2.10	0.02	Not required
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak location	n (mm)	3D distance	Summed	SPLSR	Simultaneous
Case 16		Position	SAR (W/kg)	(mm)	Х	Y	Z	(mm)	SAR (W/kg)	Results	SAR
0430 10	LTE Band 7	Back	1.352	5	19.8	-77	0.64	157.9	2.18	0.02	Not required
	WLAN2.4G	Dack	0.825	5	-19.2	76	0.6	137.9	2.10	0.02	Not required
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed	SPLSR	Simultaneous
Case 17	Dallu	Position	SAR (W/kg)	(mm)	Х	Y	z	(mm)	SAR (W/kg)	Results	SAR
Case II	LTE Band 7	Back	1.352	5	19.8	-77	0.64	155.4	2.22	0.02	Not required
	WLAN5G	Dack	0.866	5	-26.2	71.4	0.57	155.4	2.22	0.02	Not required
	Band	Position	CAR (M//r-)	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
Case 18	Danu	Position	SAR (W/kg)	(mm)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 10	LTE Band 66	Front	1.155	5	6.4	-85	0.54	160.0	1.73	0.01	Not required
	WLAN2.4G	FIOIIL	0.575	5	17.4	74.6	0.61	100.0	1.73	0.01	Not required
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	n (mm)	3D	Summed	SPLSR	Simultaneous
Case 19	Dallu	Position	SAR (W/kg)	(mm)	Х	Y	z	distance (mm)	SAR (W/kg)	Results	SAR
Case 13	LTE Band 66	Back	1.324	5	-3.3	-80.4	0.51	157.2	2.15	0.02	Not required
	WLAN2.4G	Dack	0.825	5	-19.2	76	0.6	157.2	2.15	0.02	Not required
	Band	Position	CAR (M//r-)	Gap	SAR pe	ak locatio	n (mm)	3D distance	Summed	SPLSR	Simultaneous
Case 20	Danu	Position	SAR (W/kg)	(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
Case 20	LTE Band 66	Dools	1.324	5	-3.3	-80.4	0.51	450 F	0.40	0.00	Not required
	WLAN5G	Back	0.866	5	-26.2	71.4	0.57	153.5	2.19	0.02	Not required

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Case 22	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	on (mm)	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous
	Вапа	Position		(mm)	Х	Y	Z				SAR
Case 22	GSM 850	- Back	0.756	5	13.5	-76.4	0.58	153.0	1.93	0.02	Not required
	WLAN5GHz		1.177	5	-26.2	71.4	0.57				
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	on (mm)	3D distance	Summed	SPLSR Results	Simultaneous SAR
Case 23		Position		(mm)	Х	Υ	Z	(mm)	SAR (W/kg)		
Case 23	GSM 1900	Back	1.217	5	-10.4	-85	0.46	157.2	2.39	0.02	Not required
	WLAN5G	Dack	1.177	5	-26.2	71.4	0.57				
	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	on (mm)	3D distance	Summed	SPLSR Results	Simultaneous SAR
Case 24	Dallu	Position	SAR (W/kg)	(mm)	Х	Υ	Z	(mm)	SAR (W/kg)		
Case 24	WCDMA II	Back	1.401	5	-4.9	-81.1	0.49	154.0	2.58	0.03	Not required
	WLAN5G	Dack	1.177	5	-26.2	71.4	0.57				
	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance	Summed	SPLSR	Simultaneous
Case 25				(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
Case 25	WCDMA IV	Front	1.059	5	4.8	-87	0.53	166.3	2.24	0.02	Not required
	WLAN5G		1.177	5	14	79	-1.09				
	Band Posi	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance	Summed	SPLSR	Simultaneous
Case 26		FUSILIUII		(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
Case 20	WCDMA IV	Back	1.294	5	-4.9	-81.1	0.49	154.0	2.47	0.03	Not required
	WLAN5G	Dack	1.177	5	-26.2	71.4	0.57				
	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)		3D distance	Summed	SPLSR	Simultaneous	
Case 27			SAR (W/kg)	(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
Case 21	WCDMA V	Back	1.339	5	13.5	-70.4	0.59	147.3	2.52	0.03	Not required
	WLAN5G	Dack	1.177	5	-26.2	71.4	0.57				
	Band	Position	on SAR (W/kg)	Gap	SAR pe	ak locatio	on (mm)	3D distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous
Case 28				(mm)	Х	Υ	Z	(mm)			SAR
	LTE Band 2	Back	1.334	5	-4.9	-83.5	0.51	156.4	2.51	0.03	Not required

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	WLAN5G		1.177	5	-26.2	71.4	0.57				
Case 29	Band	Position	SAR (W/kg)	Gap	SAR pe	SAR peak location (mm)			Summed	SPLSR	Simultaneous
				(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
	LTE Band 5	- Front	1.081	5	0	-80.5	0.64	160.1	1.80	0.02	Not required
	WLAN5G		0.715	5	14	79	-1.09	3D			
	Band	Position	SAR (W/kg)	Gap	SAR pe	SAR peak location (mm)			Summed	SPLSR	Simultaneous
Case 30		Position	SAR (W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 30	LTE Band 5	Back	1.289	5	11.9	-73.3	0.59	149.6	2.47	0.03	Not required
	WLAN5G	Dack	1.177	5	-26.2	71.4	0.57				
	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance	Summed	SPLSR	Simultaneous
Case 31				(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
Case 31	LTE Band 7	- Back	1.352	5	19.8	-77	0.64	155.4	2.53	0.03	Not required
	WLAN5G		1.177	5	-26.2	71.4	0.57				
	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)		3D distance	Summed	SPLSR	Simultaneous	
Case 32			SAR (W/kg)	(mm) X Y Z distance (mm) S	SAR (W/kg)	Results	SAR				
Case 32	LTE Band 66	Front	1.155	5	6.4	-85	0.54	164.2	1.96	0.02	Not required
	WLAN5G	FIOIIL	0.802	5	14	79	-1.09				
	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance	Summed	SPLSR	Simultaneous
Case 33	Band		SAR (W/kg)	(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
oase 33	LTE Band 66	Back	1.324	5	-3.3	-80.4	0.51	153.5	2.50	0.03	Not required
	WLAN5G	Dack	1.177	5	-26.2	71.4	0.57	100.0			Not required

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Case 34	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)				Summed	SPLSR	Simultaneous
				(mm)	Х	Υ	Z	(mm)	SAR (W/kg)	Results	SAR
	WCDMA V	Front	0.796	5	0.12	-79.3	0.35	153.0	1.60	0.01	Not required
	WLAN5G		0.802	5	-26.2	71.4	0.57				

Case 21	Band	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	on (mm)		Summed	SPLSR Results	Simultaneous SAR
				(mm)	Х	Y	Z		SAR (W/kg)		
	LTE Band 7	Back	3.224	0	19.8	-78	0.72	155.7	4.35	0.06	Not required
	WLAN5G		1.125	0	24.4	77.6	0.76				

Test Engineer: Nick Hu, Seven Xu, Bruce Li

TEL: 86-512-57900158 / FAX: 86-512-57900958

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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

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

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- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [11] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [12] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

----THE END-----

Appendix A. Plots of System Performance Check

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The plots are shown as follows.

Sporton International (Kunshan) Inc.

System Check_Head_835MHz

DUT: D835V2 - SN:4d258

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

Medium: HSL_835 Medium parameters used: f = 835 MHz; $\sigma = 0.936$ S/m; $\varepsilon_r = 42.537$; $\rho = 1000$

Date: 2021.7.20

 kg/m^3

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

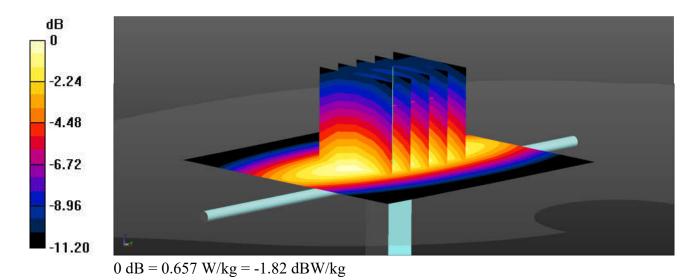
Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.654 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 27.40 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.754 W/kg

SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.310 W/kg

Maximum value of SAR (measured) = 0.657 W/kg



System Check_Head_1750MHz

DUT: D1750V2 - SN:1090

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

Medium: HSL_1750 Medium parameters used: f = 1750 MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.946$; $\rho = 1000$

Date: 2021.7.21

 kg/m^3

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

DASY5 Configuration:

- Probe: EX3DV4 SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 2.82 W/kg

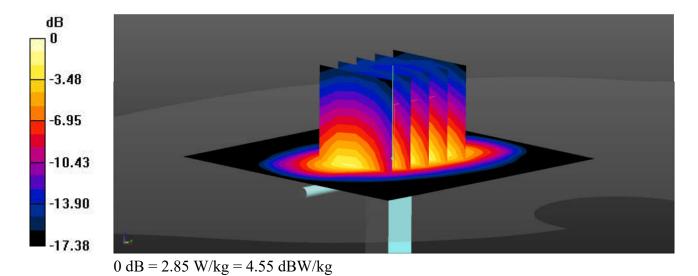
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.22 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 1.83 W/kg; SAR(10 g) = 0.970 W/kg

Maximum value of SAR (measured) = 2.85 W/kg



System Check_Head_1900MHz

DUT: D1900V2 - SN:5d170

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

Medium: HSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.455 S/m; ϵ_r = 40.703; ρ = 1000

Date: 2021.7.22

 kg/m^3

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

DASY5 Configuration:

- Probe: EX3DV4 SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 3.29 W/kg

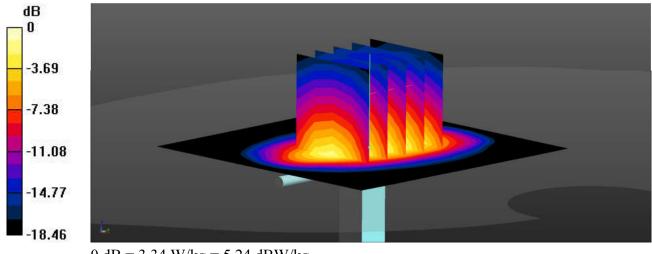
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 48.40 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 4.05 W/kg

SAR(1 g) = 2.1 W/kg; SAR(10 g) = 1.08 W/kg

Maximum value of SAR (measured) = 3.34 W/kg



0 dB = 3.34 W/kg = 5.24 dBW/kg

System Check_Head_2450MHz

DUT: D2450V2 - SN:908

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

Medium: HSL_2450 Medium parameters used: f = 2450 MHz; $\sigma = 1.81$ S/m; $\varepsilon_r = 38.624$; $\rho = 1000$

Date: 2021.7.23

 kg/m^3

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

DASY5 Configuration:

- Probe: EX3DV4 SN7630; ConvF(8.14, 8.14, 8.14); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

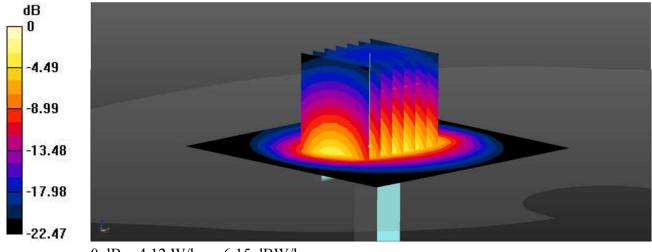
Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 4.18 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 49.21 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 5.16 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.14 W/kg

Maximum value of SAR (measured) = 4.12 W/kg



0 dB = 4.12 W/kg = 6.15 dBW/kg

System Check_Head_2600MHz

DUT: D2600V2 - SN:1061

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

Medium: HSL_2600 Medium parameters used: f = 2600 MHz; $\sigma = 1.927$ S/m; $\varepsilon_r = 38.324$; $\rho = 1000$

Date: 2021.7.23

 kg/m^3

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7630; ConvF(7.85, 7.85, 7.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 3.90 W/kg

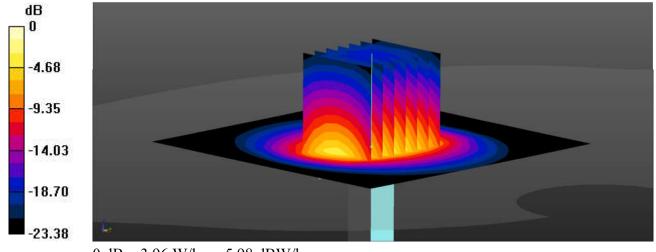
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.32 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 5.00 W/kg

SAR(1 g) = 2.69 W/kg; SAR(10 g) = 1.35 W/kg

Maximum value of SAR (measured) = 3.96 W/kg



0 dB = 3.96 W/kg = 5.98 dBW/kg

System Check_Head_5250MHz

DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL_5000 Medium parameters used: f = 5250 MHz; $\sigma = 4.636$ S/m; $\epsilon_r = 36.401$; $\rho = 1000$

Date: 2021.7.24

 kg/m^3

Ambient Temperature: 23.1 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7630; ConvF(5.55, 5.55, 5.55); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

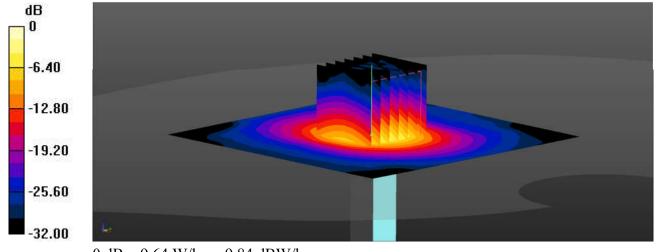
Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 8.85 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 50.04 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 15.1 W/kg

SAR(1 g) = 3.86 W/kg; SAR(10 g) = 1.12 W/kg

Maximum value of SAR (measured) = 9.64 W/kg



0 dB = 9.64 W/kg = 9.84 dBW/kg

System Check_Head_5600MHz

DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL_5000 Medium parameters used: f = 5600 MHz; $\sigma = 4.984$ S/m; $\varepsilon_r = 35.788$; $\rho = 1000$

Date: 2021.7.25

 kg/m^3

Ambient Temperature: 23.1 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7630; ConvF(4.85, 4.85, 4.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

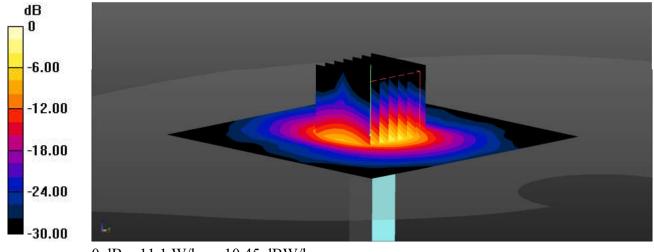
Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 10.4 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 51.98 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 4.3 W/kg; SAR(10 g) = 1.22 W/kg

Maximum value of SAR (measured) = 11.1 W/kg



0 dB = 11.1 W/kg = 10.45 dBW/kg