FCC SAR Test Report

APPLICANT : TCL Communication Ltd

EQUIPMENT : GSM Quad-band / UMTS Quad-band /

LTE 6 band mobile phone

Report No. : FA511301-03

: ALCATEL ONETOUCH BRAND NAME

MODEL NAME : 60451

MARKETING NAME: ALCATEL ONETOUCH IDOL 3 (5.5)

FCC ID : 2ACCJN002

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2003

We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Approved by: Jones Tsai / Manager



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Revision History

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA511301-03	Rev. 01	Initial issue of report	Apr. 17, 2015

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **TCL Communication Ltd**, **GSM Quad-band / UMTS Quad-band / LTE 6 band mobile phone**, **6045I**, are as follows.

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		Highest SAR Summary									
Equipment Class	Frequency Band	Head 1g SAR (W/kg)	Wireless Router (Separation 1cm) 1g SAR (W/kg)	Body-worn (Separation 1cm) 1g SAR (W/kg)	Extremity (Separation 0cm) 10g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)					
	GSM850	0.97	0.72	0.72							
	GSM1900	1.10	0.99	0.97							
	WCDMA Band V	0.98	0.51	0.51							
	WCDMA Band IV	1.07	0.89	0.89							
	WCDMA Band II	1.32	1.18	1.16							
PCE	LTE Band 12	1.00	0.19	0.19		1.59					
	LTE Band 17	1.02	0.21	0.21							
	LTE Band 5	1.19	0.52	0.52							
	LTE Band 4	1.02	1.03	1.03							
	LTE Band 2	1.12	1.32	1.35	2.63						
	LTE Band 7	1.31	1.42	1.40	3.78						
DTS	2.4GHz WLAN	1.39	0.51	0.51		1.58					
NII	5.2GHz WLAN	0.66		< 0.10		1.59					
MII	5.8GHz WLAN	1.26	0.28	0.16		1.59					
Date	of Testing:		Mar. 25, 2015 ~ Apr. 13, 2015								

Note:

- 1. The SAR value list above are all rounded to two decimal digits.
- 2. a. According to section 16.2, the maximum simultaneous SAR for WWAN+DTS is 1.91W/kg.
 - b. Per KDB 447498 D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by (SAR1 + SAR2)^{1.5}/Ri, rounded to two decimal digits, and must be \leq 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion. For all configurations SPLSR is \leq 0.04 and qualify for 1-g SAR test exclusion.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg as averaged over any 1 gram of tissue; 4.0W/kg as averaged over any 10 gram of tissue for extremity 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 1528-2003.

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2. Administration Data

Testing Laboratory								
Test Site SPORTON INTERNATIONAL (KUNSHAN) INC.								
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958							

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Applicant										
Company Name	TCL Communication Ltd									
Address	FLAT/RM 1910-12A BLOCK 3 19/F CHINA HONG KONG CITY 33 CANTON ROAD TSIMSHATSUI KL									

Manufacturer									
Company Name	TCL Communication Ltd								
Address	FLAT/RM 1910-12A BLOCK 3 19/F CHINA HONG KONG CITY 33 CANTON ROAD TSIMSHATSUI KL								

3. Guidance Standard

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- ANSI/IEEE C95.3-2002
- IEEE 1528-2003
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- FCC KDB 865664 D02 SAR Reporting v01r01
- FCC KDB 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r02
- FCC KDB 248227 D01 SAR meas for 802 11abg v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03
- FCC KDB 941225 D05 SAR for LTE Devices v02r03
- FCC KDB 941225 D06 Hotspot Mode SAR v02

4. Equipment Under Test (EUT)

4.1 General Information

	Product Feature & Specification
Equipment Name	GSM Quad-band / UMTS Quad-band / LTE 6 band mobile phone
Brand Name	ALCATEL ONETOUCH
Model Name	60451
Marketing Name	ALCATEL ONETOUCH IDOL 3 (5.5)
FCC ID	2ACCJN002
IMEI Code	014366000002518
	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	• GSM/GPRS/EGPRS • RMC/AMR 12.2Kbps • HSDPA • HSUPA • DC-HSDPA • HSPA+ (uplink 16QAM is not supported) • LTE • WLAN 2.4GHz 802.11b/g/n HT20 • WLAN 5GHz 802.11a/n HT20/HT40 • Bluetooth v3.0+EDR, Bluetooth v4.1 LE • NFC
HW Version	PIO
SW Version	7825
GSM / (E)GPRS Dual Transfer mode	Class A – EUT can support Packet Switched and Circuit Switched Network simultaneously.
EUT Stage	Identical Prototype
Domarki	

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Remark:

- 1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. 3rd party VoIP), LTE supports VoLTE operation and 802.11n-HT40 is not supported in 2.4GHz WLAN.
- This device 2.4 GHz / 5.8GHz WLAN supports hotspot and WiFi Direct (GC / GO) operation, and 5.2GHz WLAN supports WiFi Direct (GC only).
- 3. This device supports GRPS/EGPRS mode up to multi-slot class12 and supports DTM up to multi-slot class11.
- 4. This device has two sets of receivers and microphone, 1 receiver is located at the top and another one is located at the bottom of the phone. For the next-to-ear voice call the product allows the end user to use the device in the typical calling positions and in the reversed calling position. When the User Interface is in reversed portrait orientation, power reduction is implemented for the scenario that the bottom receiver is placed next-to-ear during the voice call except LTE Band 12/17, and SAR compliance was accessed for both orientations. The details of the power reduction mechanism for the reverse call are illustrated in the operational description.

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4.2 Maximum Tune-up Limit

		Burst Average Power(dBm)								
	Mode	GSN	/l850	GSM1900						
	Wode	Full power mode	Reduced power mode	Full power mode	Reduced power mode					
GS	SM (GMSK, 1 Tx slot)	33.0	31.0	30.0	25.5					
GPI	RS (GMSK, 1 Tx slot)	33.0	31.0	30.0	25.5					
GPF	RS (GMSK, 2 Tx slots)	31.5	28.0	28.0	22.5					
GPF	RS (GMSK, 3 Tx slots)	30.0	26.0	26.5	21.0					
GPF	RS (GMSK, 4 Tx slots)	29.0	25.0	25.5	20.0					
ED	GE (8PSK, 1 Tx slot)	27.0	27.0	27.0	25.5					
EDO	GE (8PSK, 2 Tx slots)	26.0	26.0	25.0	22.5					
EDO	GE (8PSK, 3 Tx slots)	24.5	24.5 24.5		21.0					
EDO	GE (8PSK, 4 Tx slots)	23.0	23.0 23.0 22.0		19.5					
DTM 5	GSM (GMSK, 1 Tx slot)	31.5	28.0	28.0	22.5					
DIMS	GPRS (GMSK, 1 Tx slot)	31.5	28.0	28.0	22.5					
DTM 9	GSM (GMSK, 1 Tx slot)	31.5	28.0	28.0	22.5					
DIMB	GPRS (GMSK, 1 Tx slot)	31.5	28.0	28.0	22.5					
DTM11	GSM (GMSK, 1 Tx slot)	30.0	26.0	26.5	21.0					
DIIVIII	GPRS (GMSK, 2 Tx slots)	30.0	26.0	26.5	21.0					
DTM 5	GSM (GMSK, 1 Tx slot)	31.5	28.0	28.0	22.5					
ס ואונט	EDGE (8PSK, 1 Tx slot)	26.0	26.0	25.0	22.5					
DTM 9	GSM (GMSK, 1 Tx slot)	31.5	28.0	28.0	22.5					
D I W 9	EDGE (8PSK, 1 Tx slot)	26.0	26.0	25.0	22.5					
DTM 11	GSM (GMSK, 1 Tx slot)	30.0	26.0	26.5	21.0					
וו ואוום	EDGE (8PSK, 2 Tx slots)	24.5	24.5	23.5	21.0					

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		Band / Mode		Average Power (dBm)
			RMC / AMR12.2Kbps	24.0
		Full Power	HSDPA	22.5
		Mode	DC-HSDPA	22.5
	Band V		HSUPA	22.5
	Dallu V		RMC / AMR12.2Kbps	22.5
		Reduced Power	HSDPA	21.0
		Mode	DC-HSDPA	21.0
			HSUPA	21.0
	Band IV		RMC / AMR12.2Kbps	23.5
		Full Power Mode	HSDPA	22.0
			DC-HSDPA	22.0
WCDMA			HSUPA	22.0
VVODIVIA		Reduced Power Mode	RMC / AMR12.2Kbps	17.5
			HSDPA	16.0
			DC-HSDPA	16.0
			HSUPA	16.0
			RMC / AMR12.2Kbps	23.5
		Full Power	HSDPA	22.0
		Mode	DC-HSDPA	22.0
	Band II		HSUPA	22.0
	Danu II		RMC / AMR12.2Kbps	17.5
		Reduced Power	HSDPA	16.0
		Mode	DC-HSDPA	16.0
			HSUPA	16.0

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	Band / Mod	е	Average Power (dBm)			
	Band 12	Full Power Mode	24.0			
	Band 17	Full Power Mode	24.0			
	Band 5	Full Power Mode	24.0			
	Danu 5	Reduced Power Mode	23.0			
LTE	Band 4	Full Power Mode	24.0			
LIE	Dallu 4	Reduced Power Mode	18.0			
	Band 2	Full Power Mode	23.5			
	Dallu Z	Reduced Power Mode	17.0			
	Band 7	Full Power Mode	21.5			
	Danu 1	Reduced Power Mode	18.5			
		802.11b	18.5			
2.4GHz WLAN		802.11g	14.0			
		802.11n HT20	12.5			
		802.11a	15.0			
5.2GHz WLAN		802.11n HT20	12.0			
		802.11n HT40	12.0			
		802.11a	14.3			
5.8GHz WLAN		802.11n HT20	12.0			
		802.11n HT40	12.0			
E	3luetooth v3.0 +	6.0				
	Bluetooth v4.1	1.0				

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Remark:

This device employs a "reverse calling" feature based on the orientation of the device such that a call can be made or taken in either portrait orientation ("Normal" and "Upside Down"). When a user answer a voice call or initiate a voice call, the dialer UI orientation is locked and the power reduction mechanison will be activated if it's locked in the reverse portrait mode. The maximum output power is reduced for a number of wireless technologies, as specified above, for the reverse calling mode. The details of the implementation is illustrated in the operational description for reverse call.

The device has been tested in voice mode for head SAR exposure compliance except LTE Band 12/17 in both normal and reduced power mode according to the maximum output power specified in this document. Body-worn accessory and hotspot mode SAR compliance are tested at normal mode maximum output power without power reduction.

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4.3 General LTE SAR Test and Reporting Considerations

Summarize	d n	ecessary item	s address	ed in KDI	3 94122	25 D05 v0	2r03			
FCC ID	2A(CCJN002								
Equipment Name	GS	M Quad-band	/ UMTS Q	uad-band /	LTE 6	band mob	ile phone			
Operating Frequency Range of each LTE transmission band	LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz 1.4MHz, 3MHz, 5MHz, 10MHz (LTE Band 5/12)									
Channel Bandwidth	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz (LTE Band 2/4) 5MHz, 10MHz, 15MHz, 20MHz (LTE Band 7) 5MHz, 10MHz (LTE Band 17)									
uplink modulations used	QPSK, and 16QAM									
LTE Voice / Data requirements	VoLTE is supported									
LTE MPR permanently built-in by design		Modulation QPSK 16 QAM	6.2.3-1: Ma Cha 1.4 MHz >5 ≤5		Partition (According		bandwidth 15 MHz > 16 ≤ 16		MPR (dB) ≤1 ≤1	
		16 QAM	>5	>4	>8	> 12	> 16	> 18	≤2]
LTE -MPR	A-N	he base station IPR during Solaximum TTI).								
Spectrum plots for RB configuration	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.									
LTE Release Version	R9									
Power reduction applied to satisfy SAR compliance	Yes Pov	s, wer reduction is	s enabled	when the l	Jser Int	erface is i	n the rever	sed portra	it orientatior	١.

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				Transm	ission (H, I	M, L)	chanı	nel numbe	rs and freq	uenc	ies in	each LTE	band			
								LTE Bar	nd 12							
	Ban	dwidth	1.4 ľ	ИHz	Bandwidth 3 MHz				Bandwidth 5 MHz			Bandwidth 10 MHz				
	Ch. #		Fre	q. (MHz)	Ch. #		Fre	q. (MHz)	Ch. #		Fre	q. (MHz)	Ch. #		Fre	q. (MHz)
L	23017	7		699.7	23025			700.5	23035	5		701.5	23060)		704
М	23095			707.5	23095			707.5	23095	5		707.5	23095	5		707.5
Н	23173	3		715.3	23165	i		714.5	23155	5		713.5	23130)		711
								LTE Bar	nd 17							
				Bandwid	th 5 MHz							Bandwidt	h 10 MHz			
		Chan	nel#			Freq.((MHz)			Chan	nnel #			Freq.	(MHz))
L		237	755			700				237	780)9	
M		237				71					790				10	
Н		238	325			71:	3.5			238	300			7′	11	
	LTE Band 5 Bandwidth 1.4 MHz Bandwidth 3 MHz Bandwidth 5 MHz Bandwidth 10 MHz															
		dwidth								ndwid					h 10 N	
	Ch. #			q. (MHz)	Ch. #			eq. (MHz)	Ch. #			eq. (MHz)	Ch. #		Fre	q. (MHz)
L	20407			824.7	20415		825.5		20425		826.5		20450			829
M	20525			836.5	20525		836.5		20525			836.5	20525		836.5 844	
Н	20643)		848.3	20635)		847.5 LTE Ba	20625)		846.5	20600)		844
	Bandwidth	2 1 4 1	MU-	Pandwid	th 3 MHz	Por	adveid	th 5 MHz		h 10 N	MU	Pondwidt	h 15 MHz	Pon	dwidt	h 20 MHz
		Fre			Freq.			Freq.	Freq				Freq.			Freq.
	Ch. #	(MI		Ch. #	(MHz)	Ch	. #	(MHz)	Ch. #		Hz)	Ch. #	(MHz)	Ch	1.#	(MHz)
L	19957	171	0.7	19965	1711.5	199	975	1712.5	20000	17	'15	20025	1717.5	200)50	1720
М	20175	173	2.5	20175	1732.5	201	175	1732.5	20175	173	32.5	20175	1732.5	201	175	1732.5
Н	20393	175	4.3	20385	1753.5	203	375	1752.5	20350	17	50	20325	1747.5	203	300	1745
								LTE Ba								
	Bandwidth			Bandwid	th 3 MHz	Bar	ndwid	th 5 MHz	Bandwidt			Bandwidt	h 15 MHz	Ban	dwidt	h 20 MHz
	Ch. #	Fre (Mi		Ch. #	Freq. (MHz)	Ch	. #	Freq. (MHz)	Ch. #	Fre (MI	eq. Hz)	Ch. #	Freq. (MHz)	Ch	ı. #	Freq. (MHz)
L	18607	185	0.7	18615	1851.5	186	325	1852.5	18650	18	55	18675	1857.5	187	700	1860
М	18900	18		18900	1880	189		1880	18900	_	80	18900	1880	189	900	1880
Н	19193	190	9.3	19185	1908.5	191	175	1907.5	19150	19	05	19125	1902.5	191	100	1900
								LTE Ba	ind 7							
	Bandwidth 5 MHz Ban				dwidt				idwidt					h 20 N		
	Ch. #			q. (MHz)	Ch. #		Fre	eq. (MHz)	Ch. #			q. (MHz)	Ch. #			q. (MHz)
L	20775			2502.5	20800			2505	20825			2507.5	20850			2510
M	21100			2535	21100			2535	21100			2535		21100		2535
Н	21425)	2	2567.5	21400			2565	21375)	2	2562.5	21350		2560	

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5. <u>RF Exposure Limits</u>

5.1 Uncontrolled Environment

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

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5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

6. Specific Absorption Rate (SAR)

6.1 Introduction

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

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6.2 SAR Definition

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

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

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

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

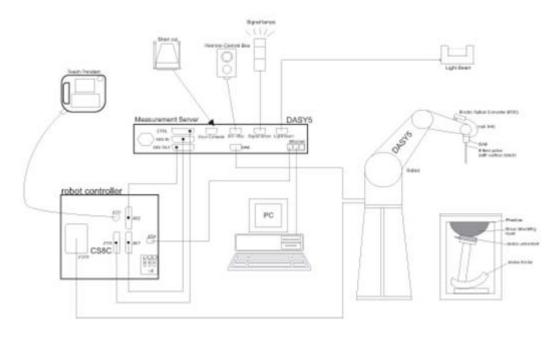
Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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7. System Description and Setup

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



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

8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

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

<SAR measurement>

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

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

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

8.1 Spatial Peak SAR Evaluation

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

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

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

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

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8.2 Power Reference Measurement

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

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8.3 Area Scan

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

Area scan parameters extracted from FCC KDB 865664 D01v01r03 SAR measurement 100 MHz to 6 GHz.

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

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8.4 Zoom Scan

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

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Zoom scan parameters extracted from FCC KDB 865664 D01v01r03 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz	
Maximum zoom scan s	spatial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$	
	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	$3 - 4 \text{ GHz}: \le 4 \text{ mm}$ $4 - 5 \text{ GHz}: \le 3 \text{ mm}$ $5 - 6 \text{ GHz}: \le 2 \text{ mm}$	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3 - 4 \text{ GHz: } \le 3 \text{ mm}$ $4 - 5 \text{ GHz: } \le 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$	
	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.

8.5 Volume Scan Procedures

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

8.6 Power Drift Monitoring

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

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When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

9. Test Equipment List

Manufacturer	Name of Equipment	Turne /Mandal	Carriel Number	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1065	Nov. 19, 2014	Nov. 18, 2015
SPEAG	835MHz System Validation Kit	D835V2	4d091	Nov. 21, 2014	Nov. 20, 2015
SPEAG	1750MHz System Validation Kit	D1750V2	1069	Nov. 21, 2014	Nov. 20, 2015
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	Nov. 21, 2014	Nov. 20, 2015
SPEAG	2450MHz System Validation Kit	D2450V2	840	Nov. 19, 2014	Nov. 18, 2015
SPEAG	2600MHz System Validation Kit	D2600V2	1061	Nov. 19, 2014	Nov. 18, 2015
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Nov. 24, 2014	Nov. 23, 2015
SPEAG	Data Acquisition Electronics	DAE4	1210	May 19, 2014	May 18, 2015
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	May 23, 2014	May 22, 2015
SPEAG	SAM Twin Phantom	QD 000 P40 CB	TP-1477	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CB	TP-1479	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201091028	Jul. 10, 2014	Jul. 09, 2015
Agilent	Wireless Communication Test Set	E5515C	MY52102706	May 03, 2014	May 02, 2015
Agilent	Wireless Communication Test Set	E5515E	MY53211040	Jun. 12, 2014	Jun. 11, 2015
R&S	Signal Generator	SMBV100A	258305	Jan. 23, 2015	Jan. 22, 2016
R&S	Bluetooth Tester	CBT	100783	Aug. 11, 2014	Aug. 10, 2015
Agilent	ENA Series Network Analyzer	E5071C	MY46111157	May 04, 2014	May 03, 2015
Agilent	Dielectric Probe Kit	85070E	MY44300475	NCR	NCR
Anritsu	Power Senor	MA2411B	0917070	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Meter	ML2495A	1005002	Jan. 23, 2015	Jan. 22, 2016
ARRA	Power Divider	A3200-2	N/A	NA	NA
R&S	Spectrum Analyzer	FSP40	100319	Oct. 28, 2014	Oct. 27, 2015
Agilent	Dual Directional Coupler	778D	50422	No	te1
Woken	Attenuator 1	WK0602-XX	N/A	No	te1
PE	Attenuator 2	PE7005-10	N/A	No	te1
PE	Attenuator 3	PE7005-3	N/A	No	te1
AR	Power Amplifier	5S1G4M2	0328767	No	te1
Mini-Circuits	Power Amplifier	ZVE-3W	162601250	No	te1
Mini-Circuits	Power Amplifier	ZHL-42W+	13440021344	No	te1

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General Note:

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

10. System Verification

10.1 Tissue Verification

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

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tissue parameters required for routine SAR evaluation.

Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity		
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	(σ)	(εr)		
	For Head Processing Control of the Processin									
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		
1750	55.2	0	0	0.3	0	44.5	1.37	40.1		
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0		
2450	55.0	0	0	0	0	45.0	1.80	39.2		
2600	54.8	0	0	0.1	0	45.1	1.96	39.0		
				For Body						
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5		
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2		
1750	70.2	0	0	0.4	0	29.4	1.49	53.4		
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3		
2450	68.6	0	0	0	0	31.4	1.95	52.7		
2600	68.1	0	0	0.1	0	31.8	2.16	52.5		

Simulating Liquid for 5GHz, Manufactured by SPEAG

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



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<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.9	0.881	40.783	0.89	41.9	-1.01	-2.67	±5	Mar. 30, 2015
835	Head	22.8	0.885	41.073	0.9	41.5	-1.67	-1.03	±5	Mar. 30, 2015
1750	Head	22.6	1.383	41.3	1.37	40.1	0.95	2.99	±5	Apr. 05, 2015
1900	Head	22.6	1.424	39.075	1.4	40	1.71	-2.31	±5	Apr. 05, 2015
2450	Head	22.9	1.82	39.202	1.8	39.2	1.11	0.01	±5	Apr. 10, 2015
2600	Head	22.5	1.974	38.204	1.96	39	0.71	-2.04	±5	Apr. 07, 2015
5200	Head	22.9	4.803	35.472	4.66	36	3.07	-1.47	±5	Apr. 04, 2015
5800	Head	22.9	5.406	34.362	5.27	35.3	2.58	-2.66	±5	Apr. 04, 2015
750	Body	22.8	0.961	53.913	0.96	55.5	0.10	-2.86	±5	Mar. 25, 2015
835	Body	22.6	0.98	54.477	0.97	55.2	1.03	-1.31	±5	Mar. 25, 2015
1750	Body	22.8	1.522	54.439	1.49	53.4	2.15	1.95	±5	Mar. 25, 2015
1900	Body	22.6	1.544	53.236	1.52	53.3	1.58	-0.12	±5	Mar. 25, 2015
2450	Body	22.6	1.943	50.96	1.95	52.7	-0.36	-3.30	±5	Apr. 04, 2015
2600	Body	22.6	2.201	52.823	2.16	52.5	1.90	0.62	±5	Mar. 28, 2015
5200	Body	22.6	5.363	48.689	5.3	49	1.19	-0.63	±5	Apr. 13, 2015
5800	Body	22.6	6.228	47.321	6	48.2	3.80	-1.82	±5	Apr. 13, 2015

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10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

<System Verification 1g SAR Results>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured SAR (W/kg)	Targeted SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)
Mar. 30, 2015	750	Head	250	1065	3857	1210	2.19	8.14	8.76	7.62
Mar. 30, 2015	835	Head	250	4d091	3857	1210	2.23	9.11	8.92	-2.09
Apr. 05, 2015	1750	Head	250	1069	3857	1210	8.73	37.10	34.92	-5.88
Apr. 05, 2015	1900	Head	250	5d118	3857	1210	9.52	40.10	38.08	-5.04
Apr. 10, 2015	2450	Head	250	840	3857	1210	12.90	52.30	51.60	-1.34
Apr. 07, 2015	2600	Head	250	1061	3857	1210	13.90	56.90	55.60	-2.28
Apr. 04, 2015	5200	Head	100	1113	3857	1210	8.01	80.00	80.10	0.12
Apr. 04, 2015	5800	Head	100	1113	3857	1210	8.32	78.50	83.20	5.99
Mar. 25, 2015	750	Body	250	1065	3857	1210	2.09	8.64	8.36	-3.24
Mar. 25, 2015	835	Body	250	4d091	3857	1210	2.26	9.60	9.04	-5.83
Mar. 25, 2015	1750	Body	250	1069	3857	1210	9.24	38.10	36.96	-2.99
Mar. 25, 2015	1900	Body	250	5d118	3857	1210	10.30	40.00	41.20	3.00
Apr. 04, 2015	2450	Body	250	840	3857	1210	12.30	51.00	49.20	-3.53
Mar. 28, 2015	2600	Body	250	1061	3857	1210	13.70	54.90	54.80	-0.18
Apr. 13, 2015	5200	Body	100	1113	3857	1210	7.34	74.90	73.40	-2.00
Apr. 13, 2015	5800	Body	100	1113	3857	1210	7.18	75.40	71.80	-4.77

<System Verification 10g SAR Results>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured SAR (W/kg)	Targeted SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)
Mar. 25, 2015	1900	Body	250	5d118	3857	1210	5.39	21.4	21.56	0.75
Mar. 28, 2015	2600	Body	250	1061	3857	1210	6.32	24.4	25.28	3.61

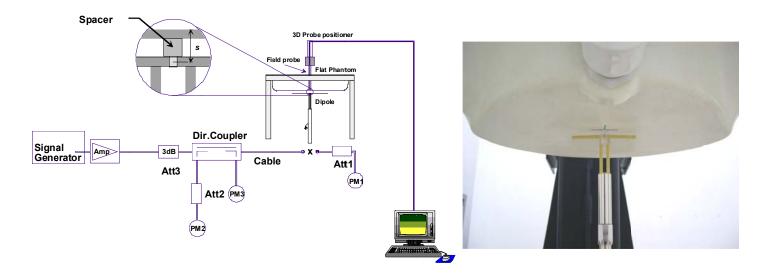


Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

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11. RF Exposure Positions

11.1 Ear and handset reference point

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



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

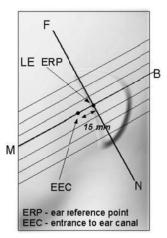
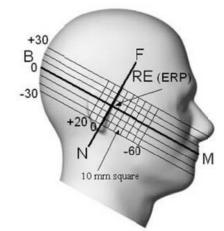


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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

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11.2 Definition of the cheek position

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

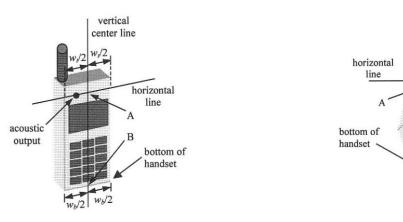


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

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

vertical

center line

acoustic output

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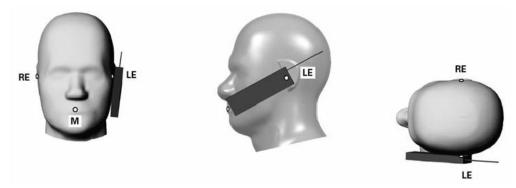


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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11.3 Definition of the tilt position

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

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

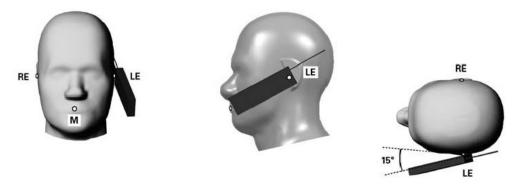


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB 648474 D04v01r02, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v05r02 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

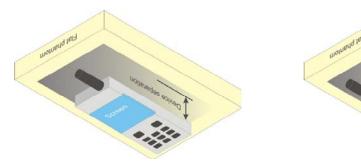


Fig 9.4 Body Worn Position

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11.5 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC HDB Publication 941225 D06 v02 where SAR test considerations for handsets (L \times W \ge 9 cm \times 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v05r02 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

11.6 Extremity 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 KDB648474D04v01r02, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless mode and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

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

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12. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

1. For DTM multi-slot class mode, the device was linked with base station simulator (Agilent E5515C) and transmit maximum power on maximum number of TX slots, i.e. one CS timeslot, and additional PS timeslots (1 for DTM class 5 and 9, 2 for DTM class 11) in one TDMA frame.

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2. Agilent E5515C was used to setup the device operated under DTM mode for power measurement and SAR testing. For conducted power, the power of the burst for voice and the power of the bursts for data was reported separately in the table above, and the frame-average power is derived below to determine SAR testing.

DTM frame average power (dBm) = $10*log [\sum (power of each slot, in mW)/8]$

- 3. Per KDB 447498 D01v05r02, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- 4. Per KDB 941225 D01v03, considering the possibility of e.g. 3rd party VoIP operation for Head and body-worn SAR test reduction for GSM, GPRS, EDGE and DTM modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900.
- 5. Per KDB 941225 D01v03, for hotspot SAR test reduction for GPRS,EDGE and DTM modes are determined by the source-based time-averaged output power including tune-up tolerance, for modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested, therefore, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900.

<Full Power Mode>:

	Band GSM850	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
	TX Channel	128	189	251	Limit	128	189	251	Limit
F	requency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM	M (GMSK, 1 Tx slot)	32.89	32.62	32.83	33.00	23.89	23.62	23.83	24.00
GPR	S (GMSK, 1 Tx slot)	32.87	32.6	32.82	33.00	23.87	23.6	23.82	24.00
GPRS (GMSK, 2 Tx slots)		30.96	31.07	30.54	31.50	24.96	25.07	24.54	25.50
GPRS (GMSK, 3 Tx slots)		29.10	29.21	29.38	30.00	24.84	24.95	25.12	25.74
GPRS (GMSK, 4 Tx slots)		28.03	28.22	28.36	29.00	25.03	25.22	25.36	26.00
EDGE (8PSK, 1 Tx slot)		26.61	26.63	26.56	27.00	17.61	17.63	17.56	18.00
EDGI	E (8PSK, 2 Tx slots)	25.53	25.55	25.56	26.00	19.53	19.55	19.56	20.00
EDGI	E (8PSK, 3 Tx slots)	23.98	24.01	24.01	24.50	19.72	19.75	19.75	20.24
EDGI	E (8PSK, 4 Tx slots)	22.45	22.43	22.38	23.00	19.45	19.43	19.38	20.00
DTM 5	GSM (GMSK, 1 Tx slot)	30.93	31.07	31.17	31.50	24.88	25.02	25.12	25.48
(2Tx slots)	GPRS (GMSK, 1 Tx slot)	30.88	31.02	31.11	31.50	24.00	25.02	25.12	23.40
DTM 9	GSM (GMSK, 1 Tx slot)	30.95	31.03	31.15	31.50	24.90	24.98	25.10	25.48
(2Tx slots)	GPRS (GMSK, 1 Tx slot)	30.90	30.97	31.09	31.50	24.90	24.90	25.10	25.40
DTM 11	GSM (GMSK, 1 Tx slot)	29.38	29.39	29.42	30.00	25.06	25.07	25.11	25.74
(3Tx slots)	GPRS (GMSK, 2 Tx slots)	29.29	29.30	29.35	30.00	25.00	25.07	25.11	25.74
DTM 5	GSM (GMSK, 1 Tx slot)	30.89	30.95	31.15	31.50	22.96	22.98	23.16	23.55
(2Tx slots)	EDGE (8PSK, 1 Tx slot)	25.47	25.36	25.48	26.00	22.90	22.90	23.10	23.55
DTM 9	GSM (GMSK, 1 Tx slot)	30.93	30.94	31.16	31.50	22.97	22.98	23.18	23.55
(2Tx slots)	EDGE (8PSK, 1 Tx slot)	25.38	25.41	25.54	26.00	22.31	22.90	23.10	23.00
DTM 11	GSM (GMSK, 1 Tx slot)	29.36	29.41	29.57	30.00	22.28	22.31	22.45	22.91
(3Tx slots)	EDGE (8PSK, 2 Tx slots)	23.88	23.89	23.99	24.50	22.20	22.31	22.40	22.91

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SPORTON LAB. FCC SAR Test Report

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E	Band GSM1900	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Po	wer (dBm)	Tune-up	
	TX Channel	512	661	810	Limit	512	661	810	Limit	
F	requency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)	
GSM	(GMSK, 1 Tx slot)	29.37	29.32	29.69	30.00	20.37	20.32	20.69	21.00	
GPR	S (GMSK, 1 Tx slot)	29.35	29.31	29.68	30.00	20.35	20.31	20.68	21.00	
GPRS	G (GMSK, 2 Tx slots)	27.86	27.67	27.66	28.00	21.86	21.67	21.66	22.00	
GPRS	G (GMSK, 3 Tx slots)	26.01	25.77	25.73	26.50	21.75	21.51	21.47	22.24	
GPRS	G (GMSK, 4 Tx slots)	24.91	24.80	24.70	25.50	21.91	21.80	21.70	22.50	
EDG	E (8PSK, 1 Tx slot)	26.16	26.66	26.09	27.00	17.16	17.66	17.09	18.00	
EDGE (8PSK, 2 Tx slots)		24.63	24.55	24.60	25.00	18.63	18.55	18.60	19.00	
EDGE (8PSK, 3 Tx slots)		23.10	23.00	23.06	23.50	18.84	18.74	18.80	19.24	
EDG	E (8PSK, 4 Tx slots)	21.58	21.49	21.59	22.00	18.58	18.49	18.59	19.00	
DTM 5	GSM (GMSK, 1 Tx slot)	27.32	27.62	27.71	28.00	21.29	21.58	04.00	21.98	
(2Tx slots)	GPRS (GMSK, 1 Tx slot)	27.30	27.58	27.66	28.00	21.29	21.56	21.66		
DTM 9	GSM (GMSK, 1 Tx slot)	27.31	27.67	27.68	28.00	24.20	04.60	24.64	24.00	
(2Tx slots)	GPRS (GMSK, 1 Tx slot)	27.29	27.63	27.64	28.00	21.28	21.63	21.64	21.98	
DTM 11	GSM (GMSK, 1 Tx slot)	25.65	25.89	25.92	26.50	04.00	04.00	04.05	00.04	
(3Tx slots)	GPRS (GMSK, 2 Tx slots)	25.60	25.85	25.90	26.50	21.36	21.60	21.65	22.24	
DTM 5	GSM (GMSK, 1 Tx slot)	27.35	27.66	27.68	28.00	20.07	20.24	20.24	20.72	
(2Tx slots)	EDGE (8PSK, 1 Tx slot)	24.32	24.42	24.47	25.00	20.07	20.31	20.34	20.73	
DTM 9	GSM (GMSK, 1 Tx slot)	27.36	27.67	27.70	28.00	20.40	20.24	20.27	20.72	
(2Tx slots)	EDGE (8PSK, 1 Tx slot)	24.39	24.49	24.52	25.00	20.10	20.34	20.37	20.73	
DTM 11	GSM (GMSK, 1 Tx slot)	25.69	25.92	25.97	26.50	10.77	10.02	10.00 10.00	20.48	
(3Tx slots)	EDGE (8PSK, 2 Tx slots)	22.87	22.98	23.02	23.50	19.77	19.93	19.98	20.48	

<Reduced Power Mode>:

	Band GSM850	Burst Ave	erage Pow	er (dBm)	Tune-up	Frame-A	erage Pov	ver (dBm)	Tune-up
	TX Channel	128	189	251	Limit	128	189	251	Limit
F	requency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM	(GMSK, 1 Tx slot)	30.26	30.34	30.57	31.00	21.26	21.34	21.57	22.00
GPR:	S (GMSK, 1 Tx slot)	30.24	30.33	30.56	31.00	21.24	21.33	21.56	22.00
GPRS	S (GMSK, 2 Tx slots)	27.18	27.32	27.46	28.00	21.18	21.32	21.46	22.00
GPRS	S (GMSK, 3 Tx slots)	25.69	25.49	25.57	26.00	21.43	21.23	21.31	21.74
GPRS	S (GMSK, 4 Tx slots)	24.23	24.41	24.65	25.00	21.23	21.41	21.65	22.00
EDG	E (8PSK, 1 Tx slot)	26.57	26.59	26.62	27.00	17.57	17.59	17.62	18.00
EDGI	E (8PSK, 2 Tx slots)	25.57	25.51	25.54	26.00	19.57	19.51	19.54	20.00
EDGI	E (8PSK, 3 Tx slots)	23.94	23.97	23.97	24.50	19.68	19.71	19.71	20.24
EDGI	E (8PSK, 4 Tx slots)	22.40	22.40	22.44	23.00	19.40	19.40	19.44	20.00
DTM 5	GSM (GMSK, 1 Tx slot)	27.16	27.35	27.43	28.00	21.13	21.32	21.38	21.98
(2Tx slots)	GPRS (GMSK, 1 Tx slot)	27.15	27.33	27.38	28.00	21.13			21.90
DTM 9	GSM (GMSK, 1 Tx slot)	27.15	27.36	27.41	28.00	21.12	18.74	21.38	21.98
(2Tx slots)	GPRS (GMSK, 1 Tx slot)	27.13	17.32	27.40	28.00	21.12	10.74	21.30	21.90
DTM 11	GSM (GMSK, 1 Tx slot)	25.65	25.61	25.66	26.00	21.38	21.33	21.37	21.74
(3Tx slots)	GPRS (GMSK, 2 Tx slots)	25.63	25.58	25.61	26.00	21.30	21.33	21.37	21.74
DTM 5	GSM (GMSK, 1 Tx slot)	27.12	27.28	27.42	28.00	20.34	20.40	20.51	21.09
(2Tx slots)	EDGE (8PSK, 1 Tx slot)	25.45	25.35	25.42	26.00	20.34	20.40	20.51	21.09
DTM 9	GSM (GMSK, 1 Tx slot)	27.16	27.29	27.38	28.00	20.33	20.42	20.52	21.09
(2Tx slots)	EDGE (8PSK, 1 Tx slot)	25.36	25.38	25.51	26.00	20.33	20.42	20.52	21.09
DTM 11	GSM (GMSK, 1 Tx slot)	25.63	25.60	25.61	26.00	20.27	20.26	20.26	20.80
(3Tx slots)	EDGE (8PSK, 2 Tx slots)	23.85	23.85	23.85	24.50	20.27	20.20	20.20	20.00

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E	Band GSM1900	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Po	wer (dBm)	Tune-up
	TX Channel	512	661	810	Limit	512	661	810	Limit
F	requency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM	I (GMSK, 1 Tx slot)	25.13	25.11	24.97	25.50	16.13	16.11	15.97	16.50
GPR:	S (GMSK, 1 Tx slot)	25.12	25.09	24.95	25.50	16.12	16.09	15.95	16.50
GPR8	S (GMSK, 2 Tx slots)	22.08	22.00	21.92	22.50	16.08	16.00	15.92	16.50
GPRS	S (GMSK, 3 Tx slots)	20.53	20.43	20.43	21.00	16.27	16.17	16.17	16.74
GPR8	S (GMSK, 4 Tx slots)	19.26	19.20	19.11	20.00	16.26	16.20	16.11	17.00
EDG	E (8PSK, 1 Tx slot)	25.11	25.09	24.94	25.50	16.11	16.09	15.94	16.50
EDGI	E (8PSK, 2 Tx slots)	22.04	22.00	21.9	22.50	16.04	16.00	15.90	16.50
EDGI	E (8PSK, 3 Tx slots)	20.50	20.41	20.41	21.00	16.24	16.15	16.15	16.74
EDGI	E (8PSK, 4 Tx slots)	19.18	19.15	19.07	19.50	16.18	16.15	16.07	16.50
DTM 5	GSM (GMSK, 1 Tx slot)	21.85	22.00	22.08	22.50	15.82	15.97	16.04	16.48
(2Tx slots)	GPRS (GMSK, 1 Tx slot)	21.84	21.98	22.05	22.50	15.62	15.97		10.40
DTM 9	GSM (GMSK, 1 Tx slot)	21.85	22.02	22.06	22.50	15.78	15.99	16.04	16.48
(2Tx slots)	GPRS (GMSK, 1 Tx slot)	21.75	22.01	22.07	22.50	15.76	15.99	10.04	10.40
DTM 11	GSM (GMSK, 1 Tx slot)	20.34	20.26	20.29	21.00	16.04	16.00	16.02	16.74
(3Tx slots)	GPRS (GMSK, 2 Tx slots)	20.28	20.26	20.27	21.00	10.04	10.00	10.02	10.74
DTM 5	GSM (GMSK, 1 Tx slot)	21.98	21.95	21.87	22.50	15.91	15.88	15.83	16.48
(2Tx slots)	EDGE (8PSK, 1 Tx slot)	21.88	21.85	21.83	22.50	15.91	15.00	15.65	10.40
DTM 9	GSM (GMSK, 1 Tx slot)	21.96	21.87	21.85	22.50	15.90	15.89	15.85	16.48
(2Tx slots)	EDGE (8PSK, 1 Tx slot)	21.89	21.96	21.90	22.50	15.90	13.09	15.85	10.40
DTM 11	GSM (GMSK, 1 Tx slot)	20.38	20.35	20.36	21.00	16.07	16.06	16.06	16.74
(3Tx slots)	EDGE (8PSK, 2 Tx slots)	20.31	20.31	20.30	21.00	10.07	16.06	10.00	10.74

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<WCDMA Conducted Power>

- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 D01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.

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3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	βο	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 $\beta_{hs} = 30/15 * \beta_c$.

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

with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for β_0/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HSDPCCH 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

HSUPA Setup Configuration:

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

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- iii. Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- Set UE Target Power

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- vi. Power Ctrl Mode= Alternating bits
- vii. Set and observe the E-TFCI
- viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

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

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

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

Setup Configuration

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DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

	Parameter	Unit	Value
Nominal	Avg. Inf. Bit Rate	kbps	60
Inter-TTI	Distance	TTI's	1
Number	of HARQ Processes	Proces	6
		ses	U
Informati	on 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 F	Rate		0.15
Number	of Physical Channel Codes	Codes	1
Modulati			QPSK
Note 1:	The RMC is intended to be used f	or DC-HSD	PA
	mode and both cells shall transmi	t with identi	cal
	parameters as listed in the table.		
Note 2:	Maximum number of transmission	is limited t	o 1, i.e.,
	retransmission is not allowed. Th	e redundan	icy and
	constellation version 0 shall be us	ed.	

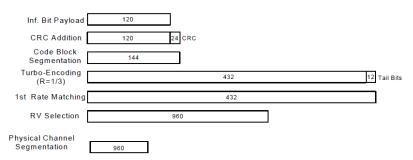


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

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< WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03, SAR for Head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

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2. Per KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

<Full Power Mode>:

		Band	WCI	DMA Ba	nd V	WCDMA Band II			WCDMA Band IV		
	Tx	Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Rx Channel				4407	4458	9662	9800	9938	1537	1638	1738
	Frequ	ency (MHz)	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
MPR	3GPP Rel 99	AMR 12.2Kbps	23.65	23.67	23.75	23.1	23.13	23.18	23.11	23.05	23.05
(dB)	3GPP Rel 99	RMC 12.2Kbps	23.68	23.69	23.76	23.11	23.14	23.19	23.13	23.06	23.07
0	3GPP Rel 6	HSDPA Subtest-1	22.07	22.13	22.27	21.53	21.72	21.92	21.52	21.48	21.46
0	3GPP Rel 6	HSDPA Subtest-2	22.06	22.11	22.25	21.55	21.84	21.95	21.51	21.48	21.47
0.5	3GPP Rel 6	HSDPA Subtest-3	22.07	22.15	22.26	21.58	21.78	21.91	21.50	21.57	21.45
0.5	3GPP Rel 6	HSDPA Subtest-4	22.05	22.13	22.24	21.55	21.75	21.84	21.48	21.56	21.44
0	3GPP Rel 8	DC-HSDPA Subtest-1	22.04	22.07	22.24	21.50	21.69	21.88	21.49	21.45	21.41
0	3GPP Rel 8	DC-HSDPA Subtest-2	22.05	22.09	22.16	21.53	21.74	21.92	21.50	21.46	21.44
0.5	3GPP Rel 8	DC-HSDPA Subtest-3	22.01	22.12	22.20	21.54	21.76	21.90	21.46	21.52	21.42
0.5	3GPP Rel 8	DC-HSDPA Subtest-4	22.03	22.10	22.15	21.49	21.71	21.80	21.45	21.53	21.43
0	3GPP Rel 6	HSUPA Subtest-1	21.71	22.03	21.75	21.96	21.97	21.83	21.77	21.65	21.65
2	3GPP Rel 6	HSUPA Subtest-2	21.05	21.33	21.06	20.9	21.32	21.41	20.97	21.04	21.04
1	3GPP Rel 6	HSUPA Subtest-3	20.71	20.99	20.74	21.43	21.20	21.57	20.59	20.60	20.60
2	3GPP Rel 6	HSUPA Subtest-4	22.00	21.59	21.40	21.88	21.60	21.32	21.17	21.23	21.23
0	3GPP Rel 6	HSUPA Subtest-5	21.76	21.90	21.93	21.85	21.99	21.94	21.56	21.55	21.55

<Reduced Power Mode>:

		Band	WCI	DMA Ba	nd V	WCI	DMA Ba	nd II	WCDMA Band IV		
	Tx	Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
	Rx	4357	4407	4458	9662	9800	9938	1537	1638	1738	
	Frequ	ency (MHz)	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
MPR	3GPP Rel 99	AMR 12.2Kbps	21.96	22.01	22.07	16.78	16.85	16.92	16.94	16.85	16.87
(dB)	3GPP Rel 99	RMC 12.2Kbps	21.97	22.02	22.09	16.80	16.86	16.93	16.96	16.85	16.88
0	3GPP Rel 6	HSDPA Subtest-1	20.52	20.59	20.63	15.66	15.59	15.77	15.52	15.63	15.43
0	3GPP Rel 6	HSDPA Subtest-2	20.51	20.57	20.60	15.68	15.61	15.79	15.50	15.62	15.43
0.5	3GPP Rel 6	HSDPA Subtest-3	20.07	20.36	20.04	15.65	15.66	15.77	15.53	15.61	15.40
0.5	3GPP Rel 6	HSDPA Subtest-4	19.92	20.25	19.96	15.62	15.57	15.76	15.50	15.58	15.38
0	3GPP Rel 8	DC-HSDPA Subtest-1	20.45	20.41	20.56	15.54	15.53	15.74	15.51	15.59	15.42
0	3GPP Rel 8	DC-HSDPA Subtest-2	20.39	20.48	20.53	15.65	15.54	15.73	15.48	15.60	15.41
0.5	3GPP Rel 8	DC-HSDPA Subtest-3	20.05	20.34	20.02	15.60	15.62	15.75	15.50	15.57	15.34
0.5	3GPP Rel 8	DC-HSDPA Subtest-4	19.90	20.23	19.93	15.59	15.48	15.67	15.43	15.54	15.29
0	3GPP Rel 6	HSUPA Subtest-1	20.09	20.38	20.09	15.79	15.93	15.86	15.46	15.80	15.43
2	3GPP Rel 6	HSUPA Subtest-2	19.44	19.67	19.40	15.19	14.83	15.33	15.01	14.99	14.96
1	3GPP Rel 6	HSUPA Subtest-3	19.10	19.27	19.12	14.82	14.53	14.89	14.56	14.63	15.12
2	3GPP Rel 6	HSUPA Subtest-4	19.83	19.90	19.72	15.51	15.91	15.53	15.22	15.25	15.19
0	3GPP Rel 6	HSUPA Subtest-5	20.05	20.18	20.29	15.74	15.82	15.05	15.50	15.44	15.62

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<LTE Conducted Power>

General Note:

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

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- 2. Per KDB 941225 D05v02r03, 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 D05v02r03, 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 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 5. Per KDB 941225 D05v02r03, 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 D05v02r03, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r03, 16QAM SAR testing is not required.
- 7. Per KDB 941225 D05v02r03, 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 D05v02r03, smaller bandwidth SAR testing is not required.

<Full Power Mode>

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<LTE Band 12>

<u> </u>	<u> </u>			Power	Power	Power		
BW	Modulation	RB	RB	Low	Middle	High	T	
[MHz]	Modulation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Tune up Limit	MPR
	Cha	nnel		23060	23095	23130	(dBm)	(dB)
	Frequenc			704	707.5	711	(dBiii)	
10	QPSK	1	0	23.51	23.68	23.57		
10	QPSK	1	24	23.27	23.21	23.35	24.0	0
10	QPSK	1	49	23.22	23.39	23.48		ŭ
10	QPSK	25	0	22.35	22.61	22.51		
10	QPSK	25	12	22.45	22.47	22.40		
10	QPSK	25	24	22.33	22.28	22.60	23.0	1
10	QPSK	50	0	22.35	22.48	22.41		
10	16QAM	1	0	23.03	22.95	22.93		
10	16QAM	1	24	22.68	22.58	22.63	23.5	0.5
10	16QAM	1	49	22.71	22.55	22.86	20.0	0.0
10	16QAM	25	0	21.53	21.41	21.61		
10	16QAM	25	12	21.54	21.57	21.56		
10	16QAM	25	24	21.53	21.70	21.69	22.0	2
10	16QAM	50	0	21.23	21.19	21.26		
	Cha		<u> </u>	23035	23095	23155	Tune up	
							Limit	MPR
	Frequenc	cy (MHZ)		701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	0	23.24	23.54	23.24		
5	QPSK	1	12	23.37	23.42	23.52	24.0	0
5	QPSK	1	24	23.23	23.16	23.34		
5	QPSK	12	0	22.30	22.49	22.43		
5	QPSK	12	6	22.42	22.56	22.46	22.0	1
5	QPSK	12	11	22.42	22.48	22.50	23.0	1
5	QPSK	25	0	22.48	22.40	22.40		
5	16QAM	1	0	22.19	23.21	23.07		
5	16QAM	1	12	22.24	23.36	23.46	23.5	0.5
5	16QAM	1	24	22.21	23.06	22.42		
5	16QAM	12	0	21.09	21.46	21.41		
5	16QAM	12	6	21.11	21.44	21.46	22.0	2
5	16QAM	12	11	21.10	21.27	21.40	22.0	2
5	16QAM	25	0	21.27	21.48	21.29		
	Cha	nnel		23025	23095	23165	Tune up	MPR
	Frequenc	cy (MHz)		700.5	707.5	714.5	Limit (dBm)	(dB)
3	QPSK	1	0	23.23	23.46	23.40		
3	QPSK	1	7	23.28	23.55	23.44	24.0	0
3	QPSK	1	14	23.23	23.35	23.67		
3	QPSK	8	0	22.40	22.54	22.48		
3	QPSK	8	4	22.32	22.55	22.53	23.0	1
3	QPSK	8	7	22.36	22.53	22.50	25.0	
3	QPSK	15	0	22.42	22.54	22.40		
3	16QAM	1	0	23.08	23.26	22.78		
3	16QAM	1	7	23.17	23.39	22.84	23.5	0.5
3	16QAM	1	14	23.10	23.14	22.93		
3	16QAM	8	0	21.63	21.77	21.71		
3	16QAM	8	4	21.59	21.78	21.76	22.0	2
3	16QAM	8	7	21.68	21.76	21.74	22.0	_
3	16QAM	15	0	21.43	21.54	21.53		

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	Cha	nnel		23017	23095	23173	Tune up	Target MPR	
	Frequen	cy (MHz)		699.7	707.5	715.3	Limit (dBm)	(dB)	
1.4	QPSK	1	0	23.39	23.42	23.32			
1.4	QPSK	1	2	23.34	23.31	23.52		0	
1.4	QPSK	1	5	23.17	23.46	23.30	24.0		
1.4	QPSK	3	0	23.30	23.43	23.46	24.0		
1.4	QPSK	3	1	23.28	23.48	23.54			
1.4	QPSK	3	2	23.30	23.53	23.56			
1.4	QPSK	6	0	22.39	22.64	22.55	23.0	1	
1.4	16QAM	1	0	23.17	23.15	22.62			
1.4	16QAM	1	2	23.12	23.15	22.69			
1.4	16QAM	1	5	23.03	23.18	22.62	22.5	0.5	
1.4	16QAM	3	0	22.92	23.13	22.66	23.5	0.5	
1.4	16QAM	3	1	23.15	23.39	22.95			
1.4	16QAM	3	2	23.08	23.33	22.98			
1.4	16QAM	6	0	21.24	21.49	21.23	22.0	2	

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<LTE Band 17>

	TE Build 177											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune up Limit	MPR				
	Cha	nnel		23780	23790	23800	(dBm)	(dB)				
	Frequenc	cy (MHz)		709	710	711						
10	QPSK	1	0	23.39	23.60	23.50						
10	QPSK	1	24	23.24	23.37	23.43	24.0	0				
10	QPSK	1	49	23.34	23.50	23.44						
10	QPSK	25	0	22.59	22.62	22.45						
10	QPSK	25	12	22.53	22.45	22.54	23.0	1				
10	QPSK	25	24	22.57	22.53	22.50	23.0	'				
10	QPSK	50	0	22.44	22.55	22.51						
10	16QAM	1	0	22.69	22.85	22.95		_				
10	16QAM	1	24	22.60	22.76	22.73	23.5	0.5				
10	16QAM	1	49	22.72	22.89	23.27						
10	16QAM	25	0	21.51	21.56	21.52						
10	16QAM	25	12	21.35	21.50	21.52	22.0	2				
10	16QAM	25	24	21.58	21.54	21.49	22.0	2				
10	16QAM	50	0	21.37	21.52	21.42						
	Cha	nnel		23755	23790	23825	Tune up	MPR				
	Frequenc	cy (MHz)		706.5	710	713.5	Limit (dBm)	(dB)				
5	QPSK	1	0	23.52	23.48	23.28						
5	QPSK	1	12	23.50	23.51	23.44	24.0	0				
5	QPSK	1	24	23.35	23.31	23.29						
5	QPSK	12	0	22.36	22.50	22.47						
5	QPSK	12	6	22.45	22.54	22.50	23.0	1				
5	QPSK	12	11	22.52	22.56	22.54	23.0					
5	QPSK	25	0	22.48	22.50	22.44						
5	16QAM	1	0	22.76	23.35	23.19						
5	16QAM	1	12	22.91	23.27	23.30	23.5	0.5				
5	16QAM	1	24	23.03	23.16	23.20						
5	16QAM	12	0	21.34	21.38	21.36	22.0					
5	16QAM	12	6	21.33	21.39	21.33		2				
5	16QAM	12	11	21.37	21.44	21.41	22.0					
5	16QAM	25	0	21.47	21.49	21.35						

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<LTE Band 5>

<lie ban<="" th=""><th colspan="11"><u><pre><lte 5="" band=""></lte></pre></u></th></lie>	<u><pre><lte 5="" band=""></lte></pre></u>										
BW		RB	RB	Power	Power	Power					
[MHz]	Modulation	Size	Offset	Low	Middle	High	Tune up	MPR			
[1411 12]			Oliset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	(dB)			
	Cha			20450	20525	20600	(dBm)	(ub)			
	Frequen	cy (MHz)		829	836.5	844					
10	QPSK	1	0	23.64	23.33	23.45					
10	QPSK	1	24	23.68	23.74	23.47	24.0	0			
10	QPSK	1	49	23.57	23.22	23.39					
10	QPSK	25	0	22.27	22.60	22.51					
10	QPSK	25	12	22.58	22.53	22.45	00.0	4			
10	QPSK	25	24	22.46	22.41	22.41	23.0	1			
10	QPSK	50	0	22.42	22.58	22.41					
10	16QAM	1	0	22.85	23.21	23.37					
10	16QAM	1	24	22.68	23.19	23.26	23.5	0.5			
10	16QAM	1	49	22.68	23.14	23.35					
10	16QAM	25	0	21.69	21.50	21.48					
10	16QAM	25	12	21.68	21.47	21.41					
10	16QAM	25	24	21.56	21.41	21.39	22.0	2			
10	16QAM	50	0	21.62	21.44	21.40					
10	Cha		U	20425	20525	20625	Tune up				
							Limit	MPR			
	Frequen	cy (MHz)		826.5	836.5	846.5	(dBm)	(dB)			
5	QPSK	1	0	23.36	23.27	23.33	()				
5	QPSK	1	12	23.53	23.49	23.48	24.0	0			
5	QPSK	1	24	23.17	23.35	23.22		_			
5	QPSK	12	0	22.56	22.51	22.50					
5	QPSK	12	6	22.59	22.45	22.46					
5	QPSK	12	11	22.53	22.47	22.37	23.0	1			
5	QPSK	25	0	22.58	22.46	22.37					
5	16QAM	1	0	22.33	22.82	23.18					
5	16QAM	1	12	22.79	22.92	23.31	23.5	0.5			
5	16QAM	1	24	22.19	23.49	23.12	23.5	0.5			
5		12	0	21.54		21.37					
	16QAM				21.53						
5	16QAM	12	6	21.56	21.25	21.26	22.0	2			
5	16QAM	12	11	21.43	21.19	21.25					
5	16QAM	25	0	21.80	21.32	21.46					
	Cha	nnel		20415	20525	20635	Tune up	MPR			
		cy (MHz)		825.5	836.5	847.5	Limit (dBm)	(dB)			
3	QPSK	1	0	23.54	23.36	23.54					
3	QPSK	1	7	23.36	23.64	23.60	24.0	0			
3	QPSK	1	14	23.33	23.32	23.58					
3	QPSK	8	0	22.68	22.50	22.51					
3	QPSK	8	4	22.60	22.49	22.50	22.0	4			
3	QPSK	8	7	22.59	22.42	22.56	23.0	1			
3	QPSK	15	0	22.60	22.43	22.45					
3	16QAM	1	0	23.29	23.13	23.35					
3	16QAM	1	7	23.35	23.26	22.68	23.5	0.5			
3	16QAM	1	14	23.23	23.24	22.71					
3	16QAM	8	0	21.85	21.76	21.34					
3	16QAM	8	4	21.86	21.76	21.57		2			
3	16QAM	8	7	21.87	21.70	21.68	22.0				
3	16QAM	15	0	21.70	21.57	21.59					
J	TOG/NIVI	J	-	21.70	21.01	21.00					

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	Cha	nnel		20407	20525	20643	Tune up	Target MPR
	Frequen	cy (MHz)		824.7	836.5	848.3	Limit (dBm)	(dB)
1.4	QPSK	1	0	23.64	23.45	23.29		
1.4	QPSK	1	2	23.45	23.32	23.32		
1.4	QPSK	1	5	23.33	23.21	23.31	24.0	
1.4	QPSK	3	0	23.52	23.47	23.58	24.0	0
1.4	QPSK	3	1	23.67	23.61	23.73		
1.4	QPSK	3	2	23.66	23.46	23.47		
1.4	QPSK	6	0	22.59	22.61	22.49	23.0	1
1.4	16QAM	1	0	23.30	23.23	23.18		
1.4	16QAM	1	2	23.39	23.21	23.24		
1.4	16QAM	1	5	23.36	23.13	23.19	23.5	0.5
1.4	16QAM	3	0	22.64	23.25	23.30	23.5	0.5
1.4	16QAM	3	1	22.78	23.39	23.48		
1.4	16QAM	3	2	22.68	23.34	23.43		
1.4	16QAM	6	0	21.26	21.49	21.43	22.0	2

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				Power	Power	Power		
BW [MHz]	Modulation	RB Size	RB Offset	Low	Middle	High	Tune-up	MDD
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	limit	MPR
	Cha	nnel		20050	20175	20300	(dBm)	(dB)
	Frequen	cy (MHz)		1720	1732.5	1745	, ,	
20	QPSK	1	0	23.36	23.65	23.29		
20	QPSK	1	49	23.31	23.60	23.23	24.0	0
20	QPSK	1	99	23.12	23.48	23.22		
20	QPSK	50	0	22.31	22.42	22.40		
20	QPSK	50	24	22.26	22.28	22.33		
20	QPSK	50	49	22.19	22.29	22.10	23.0	1
20	QPSK	100	0	22.36	22.38	22.21		
20	16QAM	1	0	22.84	22.54	22.17		
20	16QAM	1	49				22.5	0.5
	1			22.54	22.51	22.16	23.5	0.5
20	16QAM	1	99	22.52	22.49	22.11		
20	16QAM	50	0	21.45	21.34	21.52		
20	16QAM	50	24	21.36	21.32	21.45	22.0	2
20	16QAM	50	49	21.20	21.31	21.42	22.0	_
20	16QAM	100	0	21.25	21.24	21.42		
	Cha	nnel		20025	20175	20325	Tune-up	MPR
	Frequen	cy (MHz)		1717.5	1732.5	1747.5	limit (dBm)	(dB)
15	QPSK	1	0	23.43	23.26	23.59		
15	QPSK	1	37	23.22	23.22	23.51	24.0	0
15	QPSK	1	74	23.05	23.25	23.25		
15	QPSK	36	0	22.37	22.27	22.42	23.0	
15	QPSK	36	18	22.23	22.37	22.29		
15	QPSK	36	37	22.23	22.28	22.17		1
15	QPSK	75	0	22.30	22.38	22.38		
15	16QAM	1	0	23.00	22.68	23.08		
15	16QAM	1	37	23.06	22.65	22.82	23.5	0.5
15	16QAM	1	74				23.5	0.5
				22.82	22.67	22.71		
15	16QAM	36	0	21.46	21.41	21.45		
15	16QAM	36	18	21.32	21.36	21.34	22.0	2
15	16QAM	36	37	21.30	21.26	21.21		
15	16QAM	75	0	21.27	21.28	21.29		
	Cha	nnel		20000	20175	20350	Tune-up	MPR
	Frequen	cy (MHz)		1715	1732.5	1750	limit (dBm)	(dB)
10	QPSK	1	0	23.20	23.23	23.46		
10	QPSK	1	24	22.94	23.37	22.93	24.0	0
10	QPSK	1	49	22.97	23.35	22.93		
10	QPSK	25	0	22.39	22.30	22.35		
10	QPSK	25	12	22.21	22.17	22.16	60.6	
10	QPSK	25	24	22.14	22.22	22.16	23.0	1
10	QPSK	50	0	22.25	22.31	22.26		
10	16QAM	1	0	22.61	22.57	23.24		
10	16QAM	1	24	22.32	22.31	23.14	23.5	0.5
10	16QAM	1	49	22.32	22.45	23.14	23.5	0.5
	1							
10	16QAM	25	0	21.53	21.48	21.32		
10	16QAM	25	12	21.30	21.47	21.33	22.0	2
10	16QAM	25	24	21.16	21.05	21.31		
10	16QAM	50	0	21.13	21.30	21.33		

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	Cha	ınnel		19975	20175	20375	Tune-up	MPR
	Frequen	cy (MHz)		1712.5	1732.5	1752.5	limit (dBm)	(dB)
5	QPSK	1	0	22.94	23.23	23.02	(4.2)	
5	QPSK	1	12	23.26	22.95	23.27	24.0	0
5	QPSK	1	24	23.13	23.06	22.88		
5	QPSK	12	0	22.31	22.14	22.21		
5	QPSK	12	6	22.30	22.22	22.17		
5	QPSK	12	11	22.24	22.24	22.10	23.0	1
5	QPSK	25	0	22.21	22.24	22.24		
5	16QAM	1	0	22.33	22.48	22.56		
5	16QAM	1	12	22.66	22.28	22.54	23.5	0.5
5	16QAM	1	24	22.37	22.19	22.49		0.0
5	16QAM	12	0	21.18	21.20	21.17		
5	16QAM	12	6	21.16	21.23	21.32		
5	16QAM	12	11	21.23	21.21	21.08	22.0	2
5	16QAM	25	0	21.47	21.07	21.19		
J		innel	Ū	19965	20175	20385	Tune-up	
		cy (MHz)		1711.5	1732.5	1753.5	limit	MPR (dB)
3	QPSK	1	0	23.23	23.06	23.05	(dBm)	
3	QPSK	1	7	23.54	23.64	23.29	24.0	0
3	QPSK	1	14	23.09	22.98	23.14	24.0	U
3	QPSK	8	0	22.38	22.31	22.25		
3	QPSK	8	4	22.30	22.24	22.25	-	
3	QPSK	8	7	22.30	22.24	22.28	23.0	1
3	QPSK	15	0	22.23	22.23	22.20	-	
3	16QAM	15	0	22.23	22.59	22.17		
3	16QAM	1	7	23.07	22.59	22.14	23.5	0.5
3	16QAM	1	14	22.99	22.56	22.26	20.0	0.5
3	16QAM	8	0	21.40	21.45	21.46		
3	16QAM	8	4	21.40	21.43	21.54		
3	16QAM	8	7	21.14	21.50	21.54	22.0	2
3	16QAM	15	0	21.14	21.32	21.24		
<u> </u>		innel	U	19957	20175	20393	Tune-up	
		cy (MHz)		1710.7	1732.5	1754.3	limit (dBm)	MPR (dB)
1.4	QPSK	1	0	23.49	23.24	23.40		
1.4	QPSK	1	2	23.50	23.47	23.39		
1.4	QPSK	1	5	23.55	23.42	23.24		
1.4	QPSK	3	0	23.57	23.57	23.33	24.0	0
1.4	QPSK	3	1	23.59	23.54	23.38		
1.4	QPSK	3	2	23.56	23.40	23.39		
1.4	QPSK	6	0	22.51	22.37	22.53	23.0	1
1.4	16QAM	1	0	23.22	23.30	22.42		
1.4	16QAM	1	2	23.12	23.31	22.31		
1.4	16QAM	1	5	22.50	23.03	22.59	23.5	0.5
1.4	16QAM	3	0	22.65	22.63	22.43		
1.4	16QAM	3	1	22.71	22.67	22.64		
1.4	16QAM	3	2	22.60	22.54	22.59		
1.4	16QAM	6	0	20.90	21.16	20.91	22.0	2
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<LTE Band 2>

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		55.01		Power	Power	Power		
BW [MHz]	Modulation	RB Size	RB Offset	Low	Middle	High	Tune-up	MPR
	Cha	en al		Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	limit	(dB)
	Cha			18700	18900	19100	(dBm)	
00	Frequen	cy (IVIHZ)		1860	1880	1900		
20	QPSK	1	0	22.77	22.98	22.85	00.5	0
20	QPSK	1	49	22.62	22.70	22.82	23.5	0
20	QPSK	1	99	22.53	22.59	22.63		
20	QPSK	50	0	20.77	20.84	20.74		
20	QPSK	50	24	20.62	20.83	20.73	22.5	1
20	QPSK	50	49	20.51	20.81	20.71		-
20	QPSK	100	0	20.70	20.81	20.70		
20	16QAM	1	0	22.11	22.33	21.95		
20	16QAM	1	49	22.19	22.25	21.93	22.5	1
20	16QAM	1	99	21.91	21.95	21.90		
20	16QAM	50	0	19.76	19.84	19.69		
20	16QAM	50	24	19.63	19.78	19.67	21.5	2
20	16QAM	50	49	19.51	19.77	19.60	21.5	2
20	16QAM	100	0	19.69	19.82	19.78		
	Cha	nnel		18675	18900	19125	Tune-up	MPR
	Frequen	cy (MHz)		1857.5	1880	1902.5	limit (dBm)	(dB)
15	QPSK	1	0	22.74	22.64	22.78		
15	QPSK	1	37	22.80	22.67	22.76	23.5	0
15	QPSK	1	74	22.51	22.57	22.60		
15	QPSK	36	0	20.65	20.74	20.76		
15	QPSK	36	18	20.57	20.76	20.73		
15	QPSK	36	37	20.57	20.77	20.64	22.5	1
15	QPSK	75	0	20.59	20.66	20.63		
15	16QAM	1	0	21.99	22.26	22.37		
15	16QAM	1	37	21.94	22.39	22.46	22.5	1
15	16QAM	1	74	21.68	22.42	22.33	22.0	•
15	16QAM	36	0	19.65	19.66	19.73		
15	16QAM	36	18	19.67	19.63	19.70		
15	16QAM	36	37	19.72	19.62	19.73	21.5	2
15	16QAM	75	0	19.72	19.02	19.73		
15	Cha			18650	18900	19.61	Tune-up	
							limit	MPR (dB)
10	Frequen	cy (IVIHZ)		1855	1880	1905	(dBm)	(dB)
10	QPSK		0	22.66	22.83	22.58	00.5	^
10	QPSK	1	24	22.94	22.94	22.95	23.5	0
10	QPSK	1	49	22.82	22.63	22.72		
10	QPSK	25	0	20.64	20.69	20.83		
10	QPSK	25	12	20.62	20.72	20.68	22.5	1
10	QPSK	25	24	20.58	20.76	20.66		·
10	QPSK	50	0	20.66	20.73	20.72		
10	16QAM	1	0	21.62	22.04	22.23		
10	16QAM	1	24	22.06	21.92	22.29	22.5	1
10	16QAM	1	49	21.72	22.03	22.06		
10	16QAM	25	0	19.85	19.70	19.91		
10	16QAM	25	12	19.83	19.87	19.70	21.5	2
10	16QAM	25	24	19.58	19.78	19.71	21.0	2
10	16QAM	50	0	19.68	19.63	19.73		

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	Cha	nnel		18625	18900	19175	Tune-up	MPR
	Frequen	cy (MHz)		1852.5	1880	1907.5	limit (dBm)	(dB)
5	QPSK	1	0	22.49	22.78	22.62	(dBIII)	
5	QPSK	1	12	22.89	22.88	22.79	23.5	0
5	QPSK	1	24	22.49	22.85	22.72	-	
5	QPSK	12	0	20.75	20.70	20.72		
5	QPSK	12	6	20.71	20.72	20.76	00.5	
5	QPSK	12	11	20.64	20.72	20.77	22.5	1
5	QPSK	25	0	20.72	20.77	20.74		
5	16QAM	1	0	21.77	21.61	22.04		
5	16QAM	1	12	21.56	21.77	22.16	22.5	1
5	16QAM	1	24	21.84	21.80	21.87		
5	16QAM	12	0	19.65	19.93	19.70		
5	16QAM	12	6	19.55	19.95	19.76	04.5	0
5	16QAM	12	11	19.73	20.03	19.75	21.5	2
5	16QAM	25	0	19.57	19.75	19.65		
	Cha	nnel		18615	18900	19185	Tune-up	MPR
	Frequen	cy (MHz)		1851.5	1880	1908.5	limit (dBm)	(dB)
3	QPSK	1	0	22.72	22.66	22.80		
3	QPSK	1	7	22.87	22.78	22.84	23.5	0
3	QPSK	1	14	22.78	22.61	22.47		
3	QPSK	8	0	20.74	20.78	20.74		
3	QPSK	8	4	20.67	20.66	20.73	22.5	4
3	QPSK	8	7	20.68	20.73	20.69	22.5	1
3	QPSK	15	0	20.67	20.76	20.73		
3	16QAM	1	0	21.93	21.92	21.38		
3	16QAM	1	7	22.13	22.45	21.69	22.5	1
3	16QAM	1	14	21.96	21.91	21.89		
3	16QAM	8	0	19.81	19.92	19.65		
3	16QAM	8	4	19.74	19.86	19.99	21.5	2
3	16QAM	8	7	19.75	19.86	19.96	21.5	2
3	16QAM	15	0	19.74	19.81	19.78		
	Cha	nnel		18607	18900	19193	Tune-up	MPR
	Frequen	cy (MHz)		1850.7	1880	1909.3	limit (dBm)	(dB)
1.4	QPSK	1	0	22.59	22.59	22.53		
1.4	QPSK	1	2	22.80	22.77	22.67		
1.4	QPSK	1	5	22.57	22.62	22.57	23.5	0
1.4	QPSK	3	0	22.76	22.64	22.62	20.0	U
1.4	QPSK	3	1	22.62	22.66	22.83		
1.4	QPSK	3	2	22.72	22.65	22.81		
1.4	QPSK	6	0	20.72	20.66	20.68	22.5	1
1.4	16QAM	1	0	21.86	22.29	21.93		
1.4	16QAM	1	2	22.26	21.94	22.09		
1.4	16QAM	1	5	21.95	21.98	21.95	22.5	1
1.4	16QAM	3	0	21.91	21.82	22.41		
1.4	16QAM	3	1	21.80	21.94	22.44		
1.4	16QAM	3	2	21.78	21.83	22.40		
1.4	16QAM	6	0	19.56	19.61	19.67	21.5	2

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D\A/ [N4] [=1	Madulation	DD Ci-s	DD Officer	Power	Power	Power	_	
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	Tune up	MPR
	Cha	nnol		20850	21100	21350	Limit (dBm)	(dB)
	Frequenc			2510	2535	2560	(ubiii)	
20	QPSK	3y (IVII 12 <i>)</i> 1	0	21.02	21.28	21.08		
20	QPSK	1	49	20.82	21.23	21.06	21.5	0
20	QPSK	1	99	20.80	21.03	20.91	21.5	U
20	QPSK	50	0	20.00	20.10	20.91		
20	QPSK	50	24	19.92	19.97	19.93		
20	QPSK	50	49	19.89	19.90	19.90	20.5	1
20	QPSK	100	0	19.69	20.02	19.90		
20	16QAM	100	0	20.57	19.70	20.24		
20	16QAM	1	49	20.57	19.70	20.24	21.0	0.5
		1					21.0	0.5
20	16QAM		99	19.83	19.72	20.29		
20	16QAM	50	0	19.05	19.00 18.92	19.24		
20	16QAM	50	24	18.97		19.05	19.5	2
20	16QAM	50	49	18.91	18.78	19.14		
20	16QAM	100	0	18.95	18.99	19.01	T	
	Cha	nnel		20825	21100	21375	Tune up	MPR
	Frequenc	cy (MHz)		2507.5	2535	2562.5	Limit (dBm)	(dB)
15	QPSK	1	0	21.03	20.99	20.88		
15	QPSK	1	37	20.79	20.90	21.14	21.5	0
15	QPSK	1	74	20.79	20.71	20.99		
15	QPSK	36	0	19.95	19.98	19.80		
15	QPSK	36	18	19.83	19.95	19.81	00.5	4
15	QPSK	36	37	19.84	19.89	19.77	20.5	1
15	QPSK	75	0	19.86	19.92	19.87		
15	16QAM	1	0	20.57	20.67	20.04		
15	16QAM	1	37	20.87	20.76	19.65	21.0	0.5
15	16QAM	1	74	20.75	20.81	19.61		
15	16QAM	36	0	18.90	19.03	18.91		
15	16QAM	36	18	18.71	18.77	18.82	40.5	•
15	16QAM	36	37	18.70	18.74	18.92	19.5	2
15	16QAM	75	0	18.87	19.00	18.74		
	Cha	nnel		20800	21100	21400	Tune up	MPR
	Frequenc	cy (MHz)		2505	2535	2565	Limit (dBm)	(dB)
10	QPSK	1	0	20.95	20.79	20.73	(4.5111)	
10	QPSK	1	24	21.10	20.78	20.83	21.5	0
10	QPSK	1	49	20.94	20.68	20.54		•
10	QPSK	25	0	19.84	19.93	19.90		
10	QPSK	25	12	19.80	19.95	19.84		
10	QPSK	25	24	19.79	19.85	19.80	20.5	1
10	QPSK	50	0	19.87	19.89	19.88		
10	16QAM	1	0	20.26	19.46	19.54		
10	16QAM	1	24	20.24	19.46	19.41	21.0	0.5
10	16QAM	1	49	19.54	19.40	20.04	21.0	0.0
10	16QAM	25	0	19.12	19.03	19.11		
10	16QAM	25	12	18.98	18.83	19.11		
10	16QAM	25	24	18.86	18.87	19.14	19.5	2
10	16QAM	50	0	18.64	18.67	18.81		
TU	TOQAIVI	- 50	U	10.04	10.07	10.01		

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	Cha	nnel		20775	21100	21425	Tune up	MPR
	Frequenc	cy (MHz)		2502.5	2535	2567.5	Limit (dBm)	(dB)
5	QPSK	1	0	20.71	20.97	20.76		
5	QPSK	1	12	20.64	20.91	20.83	21.5	0
5	QPSK	1	24	20.67	20.78	20.80		
5	QPSK	12	0	19.90	19.91	19.90		
5	QPSK	12	6	19.92	19.88	19.91	20.5	1
5	QPSK	12	11	19.76	19.80	19.75	20.5	•
5	QPSK	25	0	19.79	19.89	19.82		
5	16QAM	1	0	20.68	20.19	20.40		
5	16QAM	1	12	20.72	20.02	20.19	21.0	0.5
5	16QAM	1	24	20.70	19.67	19.65		
5	16QAM	12	0	19.16	19.01	18.93		
5	16QAM	12	6	19.03	18.89	18.98	19.5	2
5	16QAM	12	11	19.11	18.87	18.87	19.5	2
5	16QAM	25	0	18.66	18.86	19.07		

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<Reduced Power Mode>

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<LTE Band 5>

<u> </u>	<u></u>			Dower	Power	Power		
BW	Modulation	RB	RB	Power Low	Middle	High	T	
[MHz]	Modulation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Tune up Limit	MPR
	Cha	nnel		20450	20525	20600	(dBm)	(dB)
	Frequenc			829	836.5	844	(dBiii)	
10	QPSK	1	0	22.35	22.39	22.42		
10	QPSK	. 1	24	22.32	22.19	22.24	23.0	0
10	QPSK	<u> </u>	49	22.29	22.08	21.99	20.0	ŭ
10	QPSK	25	0	22.08	22.00	22.10		
10	QPSK	25	12	22.02	21.99	21.98		
10	QPSK	25	24	21.88	21.92	21.93	23.0	0
10	QPSK	50	0	22.01	22.02	21.97		
10	16QAM	1	0	22.25	22.03	22.29		
10	16QAM	1	24	22.10	22.01	22.33	23.0	0
10	16QAM	1	49	22.07	21.73	22.30		-
10	16QAM	25	0	21.58	21.43	21.78		
10	16QAM	25	12	21.66	21.62	21.79		
10	16QAM	25	24	21.45	21.75	21.53	23.0	0
10	16QAM	50	0	21.56	21.48	21.28		
	Cha			20425	20525	20625	Tune up	MDD
							Limit	MPR (dB)
	Frequenc	Jy (IVI⊓∠)		826.5	836.5	846.5	(dBm)	(ub)
5	QPSK	1	0	22.19	21.85	22.26		
5	QPSK	1	12	22.14	21.84	22.14	23.0	0
5	QPSK	1	24	21.85	21.75	22.17		
5	QPSK	12	0	22.02	21.92	21.99		
5	QPSK	12	6	21.98	21.96	21.97	23.0	0
5	QPSK	12	11	21.99	21.97	21.90	25.0	U
5	QPSK	25	0	22.04	21.90	21.97		
5	16QAM	1	0	21.97	22.15	21.81		
5	16QAM	1	12	21.95	22.25	21.87	23.0	0
5	16QAM	1	24	21.90	22.19	22.21		
5	16QAM	12	0	21.51	21.31	21.42		
5	16QAM	12	6	21.51	21.40	21.37	23.0	0
5	16QAM	12	11	21.61	21.31	21.34		ŭ
5	16QAM	25	0	21.58	21.49	21.67		
	Cha	nnel		20415	20525	20635	Tune up	MPR
	Frequenc	cy (MHz)		825.5	836.5	847.5	Limit (dBm)	(dB)
3	QPSK	1	0	22.25	22.08	21.90		
3	QPSK	1	7	22.15	22.23	22.26	23.0	0
3	QPSK	1	14	21.84	21.95	22.18		
3	QPSK	8	0	22.21	21.96	22.02		
3	QPSK	8	4	22.05	22.03	22.03	23.0	0
3	QPSK	8	7	22.03	22.07	22.08	20.0	U
3	QPSK	15	0	22.05	21.95	21.96		
3	16QAM	1	0	22.13	22.01	22.21		
3	16QAM	1	7	22.21	21.61	22.23	23.0	0
3	16QAM	1	14	22.08	21.95	21.58		
3	16QAM	8	0	21.70	21.78	21.74		0
3	16QAM	8	4	21.53	21.83	21.61		
3	16QAM	8	7	21.57	21.80	21.54	25.0	
3	16QAM	15	0	21.74	21.39	21.74		

SPORTON INTERNATIONAL (KUNSHAN) INC.

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	Cha	nnel		20407	20525	20643	Tune up	Target MPR
	Frequen	cy (MHz)		824.7	836.5	848.3	Limit (dBm)	(dB)
1.4	QPSK	1	0	22.03	21.87	21.97		
1.4	QPSK	1	2	22.15	21.88	22.09		
1.4	QPSK	1	5	22.00	21.85	21.93	22.0	0
1.4	QPSK	3	0	22.20	21.84	22.11	23.0	0
1.4	QPSK	3	1	22.21	21.96	22.29		
1.4	QPSK	3	2	22.14	21.94	22.17		
1.4	QPSK	6	0	22.06	21.85	22.15	23.0	0
1.4	16QAM	1	0	22.04	22.19	22.18		
1.4	16QAM	1	2	22.21	22.14	22.10		
1.4	16QAM	1	5	22.12	22.11	22.12	22.0	0
1.4	16QAM	3	0	22.08	22.17	22.10	23.0	0
1.4	16QAM	3	1	22.17	21.88	22.02		
1.4	16QAM	3	2	22.09	22.02	22.03		
1.4	16QAM	6	0	21.41	21.68	21.55	23.0	0

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<LTE Band 4>

BW [MHz] Modulation RB Size RB Offset Ch. Freq. Ch.	<lte band<="" th=""><th>4></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></lte>	4>							
Ch. / Freq. Ch. / Freq. Ch. / Freq. Ch. / Freq. (dBm)	514/514/1		DD 0:	DD 0" 1	Power	Power	Power		
Channel 20050 20175 20300 (dBm) (dB)	BW [MHz]	Modulation	RB Size	RB Offset					MPR
Trequency (MHz)		Cha	en al						
20								(aBm)	
20			cy (IVIHZ)						
20			1					40.0	0
20		1	1					18.0	Ü
20									
20									
20 QPSK 100 0 17.40 17.33 17.46 17.39 20 16QAM 1 0 17.52 17.58 17.54 18.0 0 16QAM 1 0 17.52 17.58 17.64 18.0 0 16QAM 1 0 17.52 17.58 17.64 18.0 0 16QAM 1 0 17.52 17.58 17.64 18.0 0 16QAM 1 1 0 17.52 17.38 17.64 18.0 0 16QAM 50 0 17.51 17.39 17.52 20 16QAM 50 24 17.45 17.36 17.44 17.39 20 16QAM 50 49 17.32 17.34 17.39 17.52 20 16QAM 100 0 17.47 17.30 17.32 20 16QAM 100 0 17.47 17.30 17.32 20 16QAM 100 0 17.47 17.30 17.32 20.0 16QAM 100 0 17.47 17.30 17.32 20.0 16QAM 100 0 17.47 17.30 17.32 20.0 15QAM 100 0 17.48 17.45 17.45 17.45 17.45 17.45 17.45 17.45 17.45 17.47.5 17.54 17.49 17.49 17.25 17.54 17.49 17.30 17.30 17.30 18.0 0 15 QPSK 1 37 17.40 17.30 17.30 17.30 18.0 0 15 QPSK 36 18 17.39 17.32 17.41 18.0 0 15 QPSK 36 18 17.39 17.32 17.41 18.0 0 17.55 17.39 17.39 17.30 17.30 15 QPSK 36 18 17.39 17.32 17.41 18.0 0 17.52 17.53 17.49 17.30 17.30 17.30 15 16QAM 1 0 17.52 17.53 17.49 17.30 17.30 17.30 15 16QAM 1 0 17.52 17.53 17.49 17.35 17.49 15 16QAM 1 0 17.52 17.33 17.49 18.0 0 17.55 16QAM 36 0 17.41 17.42 17.38 15 16QAM 36 37 17.35 17.39 17.30 17.30 18.0 0 15 16QAM 36 37 17.35 17.39 17.30 17.30 18.0 0 17.55 16QAM 36 37 17.35 17.39 17.30 17.30 17.30 18.0 0 17.55 16QAM 36 37 17.35 17.39 17.30 17.30 18.0 0 17.55 16QAM 36 18 17.24 17.34 17.35 18.0 0 17.55 16QAM 36 18 17.24 17.34 17.35 18.0 0 17.55 16QAM 36 37 17.35 17.39 17.30 17.36 17.40 17.30 17.36 17.40 17.30 17.36 17.40 17.30 17.36 17.40 17.30 17.36 17.40 17.30 17.36 17.40 17.30 17.36 17.40 17.30 17.36 17.40 17.30 17.36 17.40 17.30 17.36 17.40 17.30								18.0	0
20									
20		1	100						
20			1					40.0	
16QAM 50 0 17.51 17.39 17.52 17.44 17.36 17.44 17.36 17.44 17.30 17.44 17.30 17.34 17.39 17.52 18.0 0 0 16QAM 50 49 17.32 17.34 17.39 17.32 17.34 17.39 17.32 17.34 17.30 17.32		1						18.0	0
16QAM 50 49 17.32 17.34 17.39 17.34 17.39 17.32 17.34 17.39 17.32 17.34 17.39 17.32 17.34 17.39 17.32 17.34 17.39 17.32 17.34 17.39 17.32 17.35 1747.5 17.48 17.30									
16QAM									
20		1						18.0	0
Channel 20025 20175 20325 Tune-up limit (dBm) MPR (dB) 15 QPSK 1 0 17.28 17.54 17.48 1 15 QPSK 1 0 17.28 17.54 17.48 1 15 QPSK 1 37 17.40 17.30 17.30 18.0 0 15 QPSK 1 74 17.19 17.49 17.25 15 QPSK 36 0 17.55 17.38 17.50 18.0 0 0 15 QPSK 36 18 17.39 17.32 17.41 18.0 0 15 QPSK 36 37 17.35 17.29 17.32 18.0 0 15 QPSK 75 0 17.37 17.33 17.49 18.0 0 15 16QAM 1 0 17.52 17.53 17.49 18.0 0 15 16QAM <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
Triangle	20			0					
Trans.		Cha	nnel		20025	20175	20325		MPR
15		Frequen	cy (MHz)		1717.5	1732.5	1747.5		
15 QPSK 1 74 17.19 17.49 17.25 15 QPSK 36 0 17.55 17.38 17.50 15 QPSK 36 18 17.39 17.32 17.41 15 QPSK 36 37 17.35 17.29 17.32 15 QPSK 36 37 17.35 17.29 17.32 15 QPSK 75 0 17.37 17.33 17.49 15 16QAM 1 0 17.52 17.53 17.49 15 16QAM 1 37 17.48 17.41 17.41 18.0 15 16QAM 36 0 17.41 17.42 17.38 15 16QAM 36 18 17.24 17.34 17.50 15 16QAM 36 18 17.24 17.34 17.50 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 75 0 17.45 17.30 17.36 16 16QAM 75 0 17.45 17.30 17.36 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	15	QPSK	1	0	17.28	17.54	17.48		
15 QPSK 36 0 17.55 17.38 17.50 15 QPSK 36 18 17.39 17.32 17.41 15 QPSK 36 37 17.35 17.29 17.32 17.49 15 QPSK 75 0 17.37 17.33 17.49 15 16QAM 1 37 17.48 17.41 17.41 18.0 0 15 16QAM 36 0 17.41 17.42 17.38 15 16QAM 36 18 17.24 17.34 17.35 15 16QAM 36 18 17.24 17.34 17.35 15 16QAM 36 18 17.24 17.34 17.35 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 75 0 17.45 17.30 17.36 17.47 15 16QAM 75 0 17.45 17.30 17.36 17.47 15 16QAM 75 0 17.45 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.47 17.30 17.36 17.49 17.49 17.50 17.42 17.30 1	15	QPSK	1	37	17.40	17.30	17.30	18.0	0
15	15	QPSK	1	74	17.19	17.49	17.25		
15 QPSK 36 37 17.35 17.29 17.32 18.0 0 15 QPSK 75 0 17.37 17.33 17.49 15 16QAM 1 0 17.52 17.53 17.49 15 16QAM 1 37 17.48 17.41 17.41 18.0 0 15 16QAM 36 0 17.41 17.32 17.38 15 16QAM 36 18 17.24 17.34 17.50 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 36 37 17.13 17.36 17.47 18.0 0 15 16QAM 36 37 17.13 17.36 17.47 18.0 0 15 16QAM 75 0 17.45 17.30 17.36 17.47 18.0 0 16 QPSK 1 0 17.66 17.50 17.42 18.0 0 10 QPSK 1 0 17.66 17.50 17.42 18.0 0 10 QPSK 1 49 17.52 17.22 17.23 18.0 0 10 QPSK 25 0 17.61 17.38 17.50 18.0 0 10 QPSK 25 12 17.45 17.32 17.40 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 17.40 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 17.40 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 24 17.48 17.45 17.32 17.40 10 16QAM 1 49 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.34 17.58 10 16QAM 25 12 17.40 17.34 17.58 10 16QAM 25 12 17.40 17.32 17.39 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 12 17.40 17.23 17.57	15	QPSK	36	0	17.55	17.38	17.50		
15 QPSK 36 37 17.35 17.29 17.32 17.32 17.49 15 16QAM 1 0 17.52 17.53 17.49 15 16QAM 1 37 17.48 17.41 17.41 18.0 0 15 16QAM 1 74 17.32 17.34 17.35 15 16QAM 36 0 17.41 17.42 17.38 15 16QAM 36 18 17.24 17.34 17.50 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 75 0 17.45 17.30 17.36 17.47 15 17.32 17.30 17.36 17.47 15 17.32 17.32 17.50 17.42 10 QPSK 1 0 17.66 17.50 17.42 10 QPSK 1 1 24 17.53 17.63 17.33 17.63 17.33 17.63 17.33 17.63 17.33 10 QPSK 25 0 17.61 17.32 17.22 17.23 10 QPSK 25 12 17.45 17.32 17.40 10 QPSK 50 0 17.61 17.38 17.50 10 QPSK 50 0 17.61 17.38 17.50 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 17.40 10 16QAM 1 0 17.53 17.68 17.52 17.45 17.38 17.50 10 16QAM 1 1 24 17.48 17.38 17.58 18.0 0 10 16QAM 1 1 49 17.49 17.48 17.38 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 10 16QAM 25 12 17.40 17.23 17.57		QPSK	36	18	17.39	17.32	17.41	10.0	0
15		QPSK	36	37	17.35	17.29	17.32	10.0	U
15		QPSK	75	0					
15	15	16QAM	1	0	17.52	17.53	17.49		
15	15	16QAM	1	37	17.48	17.41	17.41	18.0	0
15 16QAM 36 18 17.24 17.34 17.50 15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 75 0 17.45 17.30 17.36 Channel 20000 20175 20350 Tune-up limit (dBm) MPR (dB) 10 QPSK 1 0 17.66 17.50 17.42 10 QPSK 1 24 17.53 17.63 17.33 18.0 10 QPSK 1 49 17.52 17.22 17.23 18.0 0 10 QPSK 25 0 17.61 17.38 17.50 18.0 0 10 QPSK 25 12 17.45 17.32 18.0 0 10 QPSK 25 12 17.45 17.32 18.0 0 10 QPSK 25 12 17.46 17.34 17.41 18.0	15	16QAM	1	74	17.32	17.34	17.35		
15 16QAM 36 37 17.13 17.36 17.47 15 16QAM 75 0 17.45 17.30 17.36 Channel 20000 20175 20350 Tune-up limit (dBm) Frequency (MHz) 1715 1732.5 1750 Tune-up limit (dBm) 10 QPSK 1 0 17.66 17.50 17.42 10 QPSK 1 24 17.53 17.63 17.33 18.0 10 QPSK 1 49 17.52 17.22 17.23 10 QPSK 25 0 17.61 17.38 17.50 10 QPSK 25 12 17.45 17.32 17.40 10 QPSK 25 24 17.39 17.26 17.25 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 <td>15</td> <td>16QAM</td> <td>36</td> <td>0</td> <td>17.41</td> <td>17.42</td> <td>17.38</td> <td></td> <td></td>	15	16QAM	36	0	17.41	17.42	17.38		
15	15	16QAM	36	18	17.24	17.34	17.50	40.0	0
Channel 20000 20175 20350 Tune-up limit (dBm) MPR (dB) 10 QPSK 1 0 17.66 17.50 17.42 17.42 17.53 17.63 17.33 18.0 0 10 QPSK 1 49 17.52 17.22 17.23 18.0 0 10 QPSK 25 0 17.61 17.38 17.50 17.40 18.0 0 10 QPSK 25 12 17.45 17.32 17.40 18.0 0 10 QPSK 25 12 17.45 17.32 17.40 18.0 0 10 QPSK 25 24 17.39 17.26 17.25 18.0 0 10 QPSK 50 0 17.46 17.34 17.41 17.41 17.41 17.45 17.45 18.0 0 10 16QAM 1 24 17.48 17.45 17.45 18.0	15	16QAM	36	37	17.13	17.36	17.47	18.0	U
Frequency (MHz) 1715 1732.5 1750 limit (dBm)	15	16QAM	75	0	17.45	17.30	17.36		
Trequency (MHz)		Cha	nnel		20000	20175	20350	Tune-up	MDD
10 QPSK 1 0 17.66 17.50 17.42 10 QPSK 1 24 17.53 17.63 17.33 18.0 0 10 QPSK 1 49 17.52 17.22 17.23 17.23 17.23 17.20 17.23 17.20 17.23 17.20 17.23 17.40 17.30 17.40 17.32 17.40 17.40 17.25 17.40 17.25 17.25 17.25 17.25 17.25 17.25 17.25 17.25 17.25 17.25 17.25 17.25 17.25 18.0 0 0 17.46 17.34 17.41 17.41 17.41 17.41 17.41 17.41 17.42 17.43 17.44 17.44 17.44 17.44 17.45 18.0 0 10 16QAM 1 24 17.48 17.45 17.45 18.0 0 10 16QAM 1 49 17.49 17.34 17.58 17.58 17.59 18.0 0 10 16QAM 25 12		Frequen	cy (MHz)		1715	1732.5	1750		
10 QPSK 1 49 17.52 17.22 17.23 10 QPSK 25 0 17.61 17.38 17.50 10 QPSK 25 12 17.45 17.32 17.40 10 QPSK 25 24 17.39 17.26 17.25 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 10 16QAM 1 24 17.48 17.45 17.45 18.0 10 16QAM 1 49 17.49 17.48 17.38 17.58 10 16QAM 25 0 17.49 17.34 17.58 18.0 0 10 16QAM 25 12 17.40 17.12 17.39 18.0 0 10 16QAM 25 24 17.30 17.23 17.57 18.0 0	10	QPSK	1	0	17.66	17.50	17.42		
10 QPSK 1 49 17.52 17.22 17.23 10 QPSK 25 0 17.61 17.38 17.50 10 QPSK 25 12 17.45 17.32 17.40 10 QPSK 25 24 17.39 17.26 17.25 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 10 16QAM 1 24 17.48 17.45 17.45 18.0 10 16QAM 1 49 17.49 17.48 17.38 17.58 10 16QAM 25 0 17.49 17.34 17.58 18.0 0 10 16QAM 25 12 17.40 17.12 17.39 18.0 0 10 16QAM 25 24 17.30 17.23 17.57 18.0 0	10	QPSK	1	24				18.0	0
10 QPSK 25 0 17.61 17.38 17.50 10 QPSK 25 12 17.45 17.32 17.40 10 QPSK 25 24 17.39 17.26 17.25 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 10 16QAM 1 24 17.48 17.45 17.45 18.0 0 10 16QAM 1 49 17.49 17.48 17.38 17.58 10 16QAM 25 0 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57		QPSK	1						
10 QPSK 25 12 17.45 17.32 17.40 10 QPSK 25 24 17.39 17.26 17.25 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 10 16QAM 1 24 17.48 17.45 17.45 18.0 0 10 16QAM 1 49 17.49 17.48 17.38 17.38 10 16QAM 25 0 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57		1	25						
10 QPSK 25 24 17.39 17.26 17.25 10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 10 16QAM 1 24 17.48 17.45 17.45 18.0 0 10 16QAM 1 49 17.49 17.48 17.38 17.38 10 16QAM 25 0 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57								40.0	•
10 QPSK 50 0 17.46 17.34 17.41 10 16QAM 1 0 17.53 17.68 17.52 10 16QAM 1 24 17.48 17.45 17.45 18.0 0 10 16QAM 1 49 17.49 17.48 17.38 17.38 10 16QAM 25 0 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57								18.0	U
10 16QAM 1 0 17.53 17.68 17.52 10 16QAM 1 24 17.48 17.45 17.45 18.0 0 10 16QAM 1 49 17.49 17.48 17.38 17.58 10 16QAM 25 0 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57									
10 16QAM 1 24 17.48 17.45 17.45 18.0 0 10 16QAM 1 49 17.49 17.48 17.38 17.38 10 16QAM 25 0 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57									
10 16QAM 1 49 17.49 17.48 17.38 10 16QAM 25 0 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57								18.0	0
10 16QAM 25 0 17.49 17.34 17.58 10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57									
10 16QAM 25 12 17.40 17.12 17.39 10 16QAM 25 24 17.30 17.23 17.57		1							
10 16QAM 25 24 17.30 17.23 17.57								40.0	0
								18.0	
	10	16QAM	50	0	17.37	17.23	17.56		

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	Cha	nnel		19975	20175	20375	Tune-up	MPR
	Frequenc	cy (MHz)		1712.5	1732.5	1752.5	limit (dBm)	(dB)
5	QPSK	1	0	17.36	17.27	17.06	(dBIII)	
5	QPSK	1	12	17.47	17.25	17.31	18.0	0
5	QPSK	1	24	17.02	17.05	17.22		
5	QPSK	12	0	17.50	17.31	17.35		
5	QPSK	12	6	17.42	17.34	17.28		
5	QPSK	12	11	17.49	17.31	17.25	18.0	0
5	QPSK	25	0	17.26	17.45	17.34		
5	16QAM	1	0	17.65	17.18	17.55		
5	16QAM	1	12	17.55	17.11	17.52	18.0	0
5	16QAM	1	24	17.48	17.20	17.48		
5	16QAM	12	0	17.45	17.45	17.32		
5	16QAM	12	6	17.36	17.48	17.28	40.0	0
5	16QAM	12	11	17.34	17.42	17.23	18.0	0
5	16QAM	25	0	17.48	17.27	17.24		
	Cha	nnel		19965	20175	20385	Tune-up	MPR
	Frequenc	cy (MHz)		1711.5	1732.5	1753.5	limit (dBm)	(dB)
3	QPSK	1	0	17.40	17.23	17.37		
3	QPSK	1	7	17.60	17.39	17.21	18.0	0
3	QPSK	1	14	17.13	17.44	17.15		
3	QPSK	8	0	17.29	17.18	17.40		
3	QPSK	8	4	17.21	17.27	17.32	40.0	0
3	QPSK	8	7	17.57	17.32	17.27	18.0	0
3	QPSK	15	0	17.52	17.35	17.25		
3	16QAM	1	0	17.46	17.48	17.53		
3	16QAM	1	7	17.54	17.42	17.51	18.0	0
3	16QAM	1	14	17.46	17.36	17.46		
3	16QAM	8	0	17.53	17.57	17.38		
3	16QAM	8	4	17.48	17.54	17.41	18.0	0
3	16QAM	8	7	17.47	17.50	17.52	16.0	0
3	16QAM	15	0	17.42	17.42	17.51		
	Cha	nnel		19957	20175	20393	Tune-up	MPR
	Frequenc	cy (MHz)		1710.7	1732.5	1754.3	limit (dBm)	(dB)
1.4	QPSK	1	0	17.59	17.20	17.38		
1.4	QPSK	1	2	17.26	17.30	17.37		
1.4	QPSK	1	5	17.13	17.32	17.31	18.0	0
1.4	QPSK	3	0	17.23	17.24	17.28	10.0	0
1.4	QPSK	3	1	17.27	17.32	17.33		
1.4	QPSK	3	2	17.24	17.27	17.35		
1.4	QPSK	6	0	17.22	17.43	17.30	18.0	0
1.4	16QAM	1	0	17.48	17.21	17.48		
1.4	16QAM	1	2	17.46	17.17	17.32		
1.4	16QAM	1	5	17.42	17.28	17.29	18.0	0
1.4	16QAM	3	0	17.56	17.30	17.19	10.0	U
1.4	16QAM	3	1	17.58	17.21	17.20		
1.4	16QAM	3	2	17.57	17.20	17.18		
1.4	16QAM	6	0	17.10	17.28	17.24	18.0	0

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<LTE Band 2>

BW MHz Modulation RB Size RB Offset Cow Ch. / Freq. Ch. / Ch.	<lte band<="" th=""><th>22</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></lte>	22							
Ch. / Freq. Ch. / Freq. Ch. / Freq. Ch. / Freq. (dBm) Frequency (MHz) 1860 1880 1900 19100 Cm Cm Cm Cm Cm Cm Cm	514/514			DD 055					
Channel	BW [MHz]	Modulation	RB Size	RB Offset					MPR
Frequency (MHz)		Cha	es al						
20								(aBm)	
20	20		Cy (IVIHZ)	0					
20			1	·				47.0	0
20								17.0	Ü
20									
20									
20								17.0	0
160AM									
16QAM			100						
160AM			1	-					
20								17.0	0
20									
16QAM									
15.94 15.93 16.07 15.94 15.93 16.07 15.94 15.93 16.07 15.94 15.93 16.05 15.96 16.03 15.96 16.03 15.96 16.03 15.96 16.03 15.96 16.03 15.96 16.03 15.96 16.04 15.96 16.04 15.96 16.05 15.96 16.07 15.84 17.0 0 0 0 0 0 0 0 0 0								17.0	0
Tune-up Imit (dB) Tune-up Imit (dB)									_
Frequency (MHz) 1857.5 1880 1902.5 (dBm) (dBm) (dBm) 15 QPSK 1 0 16.17 16.17 16.48 15 QPSK 1 74 15.80 16.05 16.08 16.32 17.0 0 15 QPSK 1 74 15.80 16.08 16.13 16.01 15 QPSK 36 0 16.08 16.08 16.10 15 QPSK 36 18 15.96 16.11 16.13 15 QPSK 36 37 15.94 16.06 16.03 15 QPSK 36 37 15.94 16.06 16.03 15 15 16QAM 1 0 16.53 16.12 15.93 15 16QAM 1 0 16.53 16.12 15.93 15 16QAM 1 37 16.46 16.07 15.83 17.0 0 0 0 0 15 15 16QAM 1 74 16.39 16.16 15 16QAM 36 0 16.03 15.87 16.11 15 16QAM 36 0 16.03 15.87 16.11 15 16QAM 36 18 15.86 15.81 16.06 15 16QAM 36 17.0 0 0 0 0 0 0 0 0 0 0 0 0	20			0					
Tequency (MHz)		Cha	nnel		18675	18900	19125		MPR
15		•	cy (MHz)						
15 QPSK 36 0 16.08 16.01 16.01 15 QPSK 36 0 16.08 16.08 16.00 16.08 16.10 15 QPSK 36 18 15.96 16.11 16.13 16.01 15 QPSK 36 37 15.94 16.06 16.04 16.03 15 QPSK 75 0 15.98 16.10 16.04 15 16QAM 1 0 16.53 16.12 15.93 15 16QAM 1 37 16.46 16.07 15.83 17.0 0 15 16QAM 36 0 16.03 15.87 16.11 15 16QAM 36 18 15.86 15.81 16.06 15 16QAM 36 18 15.86 15.81 16.06 15 16QAM 36 37 15.85 15.83 16.09 15 16QAM 36 37 15.85 15.83 16.09 15 16QAM 75 0 16.03 16.07 15.84 16.00 17.0 0 16.03 16.07 15.84 16.00 17.0 0 16.03 16.07 15.84 16.00 17.0 0 16.03 16.07 15.84 16.00 17.0 0 16.03 16.07 15.84 16.00 19.00			1						
15 QPSK 36 18 15.96 16.11 16.13 17.0 0 15.98 16.00 16.03 17.0 0 15.98 16.10 16.04 17.0 0 16.05 16.05 16.06 16.03 17.0 0 16.06 16.03 17.0 0 16.06 16.03 17.0 0 16.06 16.03 16.06 16.03 16.06 16.03 16.06 16.03 16.06 16.03 16.06 16.03 16.06 16.03 16.06 16.03 16.07 15.83 17.0 0 16.07 15.83 17.0 0 16.08 16.08 16.09 17.0 0 16.08 16.08 16.09 17.0 0 16.08 16.09 17.0 0 16.08 16.09 17.0 0 16.08 16.09 17.0 0 16.08 16.09 17.0 0 16.08 16.09 16			1	37			16.32	17.0	0
15		QPSK	1	74	15.80				
15		QPSK	36		16.08	16.08	16.10		
15		QPSK	36	18	15.96			17.0	0
15	15	QPSK	36	37	15.94	16.06	16.03	17.0	U
15			75	0					
15			1						
15			1	37				17.0	0
15 16QAM 36 18 15.86 15.81 16.06 15 16QAM 36 37 15.85 15.83 16.09 15 16QAM 75 0 16.03 16.07 15.84 Channel 18650 18900 19150 Tune-up limit (dBm) MPR (dB) Frequency (MHz) 1855 1880 1905 Tune-up limit (dBm) MPR (dB) 10 QPSK 1 0 15.92 15.99 16.03 10 QPSK 1 24 16.24 16.49 16.17 17.0 0 10 QPSK 1 49 16.03 16.21 15.91 17.0 0 10 QPSK 25 0 16.07 16.10 16.08 17.0 0 10 QPSK 25 12 16.01 16.05 16.01 17.0 0 10 QPSK 25 24 16.05 16.10		16QAM	1	74	16.39		16.05		
15	15	16QAM	36	0	16.03	15.87	16.11		
15	15	16QAM	36	18	15.86	15.81	16.06	17.0	0
Channel 18650 18900 19150 Tune-up limit (dBm) MPR (dB) 10 QPSK 1 0 15.92 15.99 16.03 10 QPSK 1 24 16.24 16.49 16.17 17.0 0 10 QPSK 1 49 16.03 16.21 15.91 17.0 0 10 QPSK 25 0 16.07 16.10 16.08 16.01 17.0 0 10 QPSK 25 12 16.01 16.05 16.01 16.02 17.0 0 10 QPSK 25 24 16.05 16.10 16.02 17.0 0 10 QPSK 50 0 16.06 16.04 16.08 17.0 0 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 16.11 <td>15</td> <td>16QAM</td> <td>36</td> <td>37</td> <td>15.85</td> <td></td> <td></td> <td>17.0</td> <td>U</td>	15	16QAM	36	37	15.85			17.0	U
Frequency (MHz) 1855 1880 1905 limit (dBm) (dB)	15	16QAM	75	0	16.03	16.07	15.84		
Trequency (MHz) 1855 1880 1905 (dBm)		Cha	nnel		18650	18900	19150		MPR
10 QPSK 1 0 15.92 15.99 16.03 10 QPSK 1 24 16.24 16.49 16.17 17.0 0 10 QPSK 1 49 16.03 16.21 15.91 17.0 0 10 QPSK 25 0 16.07 16.10 16.08 16.01 16.08 17.0 0 10 QPSK 25 24 16.05 16.10 16.02 17.0 0 10 QPSK 50 0 16.06 16.04 16.08 16.08 16.08 17.0 0 10 16QAM 1 0 16.55 16.65 16.58 17.0 0 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 16.14 16.14 16.00 16.04 16.00 16.01 16.00 17.0 0 10 16QAM 25 12 16.45		Frequen	cy (MHz)		1855	1880	1905		
10 QPSK 1 49 16.03 16.21 15.91 10 QPSK 25 0 16.07 16.10 16.08 10 QPSK 25 12 16.01 16.05 16.01 10 QPSK 25 24 16.05 16.10 16.02 10 QPSK 50 0 16.06 16.04 16.08 10 16QAM 1 0 16.55 16.65 16.58 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 16.11 16.04 16.01 16.00 16.01 16.00 17.0 0 10 16QAM 25 0 16.38 16.18 16.11 16.00 17.0 0 10 16QAM 25 12 16.45 16.21 16.00 17.0 0 10 16QAM 25 24 15.95 16.37 15.88 17.0 0 <td>10</td> <td>QPSK</td> <td>1</td> <td>0</td> <td>15.92</td> <td>15.99</td> <td>16.03</td> <td></td> <td></td>	10	QPSK	1	0	15.92	15.99	16.03		
10 QPSK 1 49 16.03 16.21 15.91 10 QPSK 25 0 16.07 16.10 16.08 10 QPSK 25 12 16.01 16.05 16.01 10 QPSK 25 24 16.05 16.10 16.02 10 QPSK 50 0 16.06 16.04 16.08 10 16QAM 1 0 16.55 16.65 16.58 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 16.11 16.04 16.01 16.01 16.01 16.00 17.0 0 10 16QAM 25 0 16.38 16.18 16.11 16.00 17.0 0 10 16QAM 25 12 16.45 16.21 16.00 17.0 0 10 16QAM 25 24 15.95 16.37 15.88 17.0 0 <td>10</td> <td>QPSK</td> <td>1</td> <td>24</td> <td>16.24</td> <td>16.49</td> <td>16.17</td> <td>17.0</td> <td>0</td>	10	QPSK	1	24	16.24	16.49	16.17	17.0	0
10 QPSK 25 0 16.07 16.10 16.08 10 QPSK 25 12 16.01 16.05 16.01 10 QPSK 25 24 16.05 16.10 16.02 10 QPSK 50 0 16.06 16.04 16.08 10 16QAM 1 0 16.55 16.65 16.58 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 16.11 10 16QAM 25 0 16.38 16.18 16.11 10 16QAM 25 12 16.45 16.21 16.00 10 16QAM 25 24 15.95 16.37 15.88	10	QPSK	1	49					
10 QPSK 25 12 16.01 16.05 16.01 10 QPSK 25 24 16.05 16.10 16.02 10 QPSK 50 0 16.06 16.04 16.08 10 16QAM 1 0 16.55 16.65 16.58 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 16.11 10 16QAM 25 0 16.38 16.18 16.11 10 16QAM 25 12 16.45 16.21 16.00 10 16QAM 25 24 15.95 16.37 15.88			25	0					
10 QPSK 25 24 16.05 16.10 16.02 10 QPSK 50 0 16.06 16.04 16.08 10 16QAM 1 0 16.55 16.65 16.58 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 10 16QAM 25 0 16.38 16.18 16.11 10 16QAM 25 12 16.45 16.21 16.00 10 16QAM 25 24 15.95 16.37 15.88								47.0	•
10 QPSK 50 0 16.06 16.04 16.08 10 16QAM 1 0 16.55 16.65 16.58 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 10 16QAM 25 0 16.38 16.18 16.11 10 16QAM 25 12 16.45 16.21 16.00 10 16QAM 25 24 15.95 16.37 15.88								17.0	Ü
10 16QAM 1 0 16.55 16.65 16.58 10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 10 16QAM 25 0 16.38 16.18 16.11 10 16QAM 25 12 16.45 16.21 16.00 10 16QAM 25 24 15.95 16.37 15.88									
10 16QAM 1 24 16.51 16.52 16.56 17.0 0 10 16QAM 1 49 16.40 16.32 16.14 10 16QAM 25 0 16.38 16.18 16.11 10 16QAM 25 12 16.45 16.21 16.00 10 16QAM 25 24 15.95 16.37 15.88									
10 16QAM 1 49 16.40 16.32 16.14 10 16QAM 25 0 16.38 16.18 16.11 10 16QAM 25 12 16.45 16.21 16.00 10 16QAM 25 24 15.95 16.37 15.88								17.0	0
10 16QAM 25 0 16.38 16.18 16.11 10 16QAM 25 12 16.45 16.21 16.00 10 16QAM 25 24 15.95 16.37 15.88									
10 16QAM 25 12 16.45 16.21 16.00 17.0 0		1							
10 16QAM 25 24 15.95 16.37 15.88									
								17.0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10	16QAM	50	0	16.00	16.00	15.95		

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	Cha	nnel		18625	18900	19175	Tune-up	MPR
	Frequen	cy (MHz)		1852.5	1880	1907.5	limit (dBm)	(dB)
5	QPSK	1	0	15.72	15.78	16.04	(dBIII)	
5	QPSK	1	12	15.99	16.33	16.19	17.0	0
5	QPSK	1	24	16.08	15.81	15.90	-	
5	QPSK	12	0	15.94	15.94	15.89		
5	QPSK	12	6	15.86	15.96	15.88	-	
5	QPSK	12	11	15.87	15.96	15.84	17.0	0
5	QPSK	25	0	15.92	16.02	15.89		
5	16QAM	1	0	16.42	16.14	15.91		
5	16QAM	1	12	16.41	16.21	16.59	17.0	0
5	16QAM	1	24	16.07	15.87	15.85		-
5	16QAM	12	0	16.00	15.99	15.97		
5	16QAM	12	6	15.94	15.95	15.92	-	
5	16QAM	12	11	15.93	15.94	15.89	17.0	0
5	16QAM	25	0	15.91	15.97	15.97		
J	Cha			18615	18900	19185	Tune-up	MDD
	Frequen			1851.5	1880	1908.5	limit (dBm)	MPR (dB)
3	QPSK	1	0	16.08	15.81	15.99	(dbiii)	
3	QPSK	1	7	15.89	16.41	16.22	17.0	0
3	QPSK	1	14	15.75	15.80	15.74	- 17.0	O
3	QPSK	8	0	16.03	16.00	15.74		
3	QPSK	8	4	16.03	15.96	15.96	-	
3	QPSK	8	7	15.91	15.90	15.94	17.0	0
3	QPSK	15	0	15.91	15.99	15.95	-	
3	16QAM	1	0	16.43	16.38	16.55		
3	16QAM	1	7	16.54	16.28	16.51	17.0	0
3	16QAM	1	14	15.89	16.23	16.56	17.0	U
3	16QAM	8	0	15.09	16.22	16.18		
3	16QAM	8	4	16.14	16.39	16.12	_	
3	16QAM	8	7	16.27	16.37	16.30	17.0	0
3	16QAM	15	0	16.04	16.06	16.09	-	
3	Cha		U	18607	18900	19193	Tune-up	
	Frequen			1850.7	1880	1909.3	limit (dBm)	MPR (dB)
1.4	QPSK	1	0	15.97	15.92	15.84	(GBIII)	
1.4	QPSK	1	2	15.87	15.85	16.27		
1.4	QPSK	1	5	15.78	15.83	15.79	-	
1.4	QPSK	3	0	15.87	15.92	15.90	17.0	0
1.4	QPSK	3	1	15.88	16.05	15.95		
1.4	QPSK	3	2	15.91	15.97	15.92		
1.4	QPSK	6	0	15.89	16.00	16.07	17.0	0
1.4	16QAM	1	0	16.16	16.44	16.56	0	
1.4	16QAM	1	2	16.44	16.49	16.54		
1.4	16QAM	1	5	16.18	16.31	16.53		
1.4	16QAM	3	0	16.23	16.14	16.51	17.0	0
1.4	16QAM	3	1	16.23	15.70	16.52		
1.4	16QAM	3	2	16.42	16.06	16.52		
1.4	16QAM	6	0	16.09	15.45	15.90	17.0	0
1.7	TOGANIVI			10.00	10.70	10.00	17.0	J

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<LTE Band 7>

<pre>SW [MHz]</pre>	Modulation	RB Size	RB Offset	M	leasured Pow	or	Tura	
	Cha		TID Oliset	20850	21100	21350	Tune-up limit	MPR
	Frequen			2510	2535	2560	(dBm)	(dB)
20	QPSK	1	0	18.25	18.27	18.05	(3.2)	
20	QPSK	1	49	18.12	18.01	17.94	18.5	0
20	QPSK	1	99	18.08	17.84	17.77	10.5	O
20	QPSK	50	0	18.02	18.05	18.00		
20	QPSK	50	24	17.91	17.87	17.91	-	
20	QPSK	50	49	17.80	17.83	17.94	18.5	0
20	QPSK	100	0	17.84	17.99	17.94		
20	16QAM	1	0	18.45	18.30	18.15		
20	16QAM	1	49	18.40	18.12	17.88	18.5	0
20	16QAM	1	99	18.43	18.29	17.77	1	-
20	16QAM	50	0	17.81	17.89	17.91		
20	16QAM	50	24	17.89	17.88	17.78	1	_
20	16QAM	50	49	17.73	17.83	17.85	18.5	0
20	16QAM	100	0	17.88	18.01	17.87		
	Cha			20825	21100	21375	Tune-up	MPR
	Frequen			2507.5	2535	2562.5	limit (dBm)	(dB)
15	QPSK	1	0	18.09	17.90	17.94		
15	QPSK	1	37	18.14	17.71	17.82	18.5	0
15	QPSK	1	74	17.93	17.72	17.87		
15	QPSK	36	0	17.92	17.97	17.89		
15	QPSK	36	18	17.88	17.85	17.83	40.5	0
15	QPSK	36	37	17.73	17.80	17.83	18.5	0
15	QPSK	75	0	17.90	17.94	17.81		
15	16QAM	1	0	18.24	18.11	18.04		
15	16QAM	1	37	18.27	18.46	17.77	18.5	0
15	16QAM	1	74	18.34	18.28	17.95		
15	16QAM	36	0	17.94	18.05	17.90		
15	16QAM	36	18	17.95	17.97	17.79	18.5	0
15	16QAM	36	37	17.87	17.87	17.79	10.5	U
15	16QAM	75	0	17.91	17.92	17.80		
	Cha	nnel		20800	21100	21400	Tune-up	MPR
	Frequen	cy (MHz)		2505	2535	2565	limit (dBm)	(dB)
10	QPSK	1	0	17.96	17.85	17.94		
10	QPSK	1	24	18.13	18.05	18.18	18.5	0
10	QPSK	1	49	17.97	17.89	17.71		
10	QPSK	25	0	17.90	17.91	17.91		
10	QPSK	25	12	17.84	17.95	17.87	18.5	0
10	QPSK	25	24	17.83	17.96	17.83		j
10	QPSK	50	0	17.81	17.87	17.91		
10	16QAM	1	0	18.13	17.49	17.99		
10	16QAM	1	24	17.98	17.56	18.31	18.5	0
10	16QAM	1	49	17.78	17.57	18.37		
10	16QAM	25	0	18.06	17.98	17.84		
10	16QAM	25	12	17.75	17.91	17.83	18.5	0
10	16QAM	25	24	17.71	17.82	18.19	18.5	•
10	16QAM	50	0	17.86	17.85	17.85		

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	Cha	nnel		20775	21100	21425	Tune-up	MPR
	Frequency (MHz)				2535	2567.5	limit (dBm)	(dB)
5	QPSK	1	0	17.67	17.72	17.67		
5	QPSK	1	12	18.12	17.91	17.75	18.5	0
5	QPSK	1	24	17.48	17.96	17.57		
5	QPSK	12	0	17.85	17.91	17.86		
5	QPSK	12	6	17.86	17.87	17.94	18.5	0
5	QPSK	12	11	17.82	17.82	17.83	10.5	0
5	QPSK	25	0	17.83	17.89	17.80		
5	16QAM	1	0	18.38	18.04	18.26		
5	16QAM	1	12	17.44	18.43	18.29	18.5	0
5	16QAM	1	24	17.46	17.86	18.30		
5	16QAM	12	0	17.74	17.88	17.88		
5	16QAM	12	6	17.81	17.81	17.89	18.5	0
5	16QAM	12	11	17.77	17.88	17.76	16.5	U
5	16QAM	25	0	17.85	17.96	18.21		

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<WLAN Conducted Power>

General Note:

 For 2.4GHz WLAN SAR testing, highest average RF output power channel for the lowest data rate for 802.11b were selected for SAR evaluation. 802.11g/n HT20 were not investigated since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of 802.11b mode.

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 For 5GHz WLAN SAR testing, highest average RF output power channel for the lowest data rate for 802.11a were selected for SAR evaluation. 802.11n HT20/HT40 were not investigated since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of 802.11a mode.

<WLAN 2.4GHz>

	WLAN 2.4GHz 802.11b Average Power (dBm)										
Po	wer vs. Chan	inel	Power vs. Data Rate								
Channel	Frequency	Data Rate	Channel	2Mbps	5.5Mbps	11Mbps					
Charmer	(MHz)	1Mbps	Chaine	Zivibps	odulvic.c	TTIVIDPS					
CH 01	2412	17.30									
CH 06	2437	17.44	CH 11	17.97	18.09	18.12					
CH 11	2462	18.14									

	WLAN 2.4GHz 802.11g Average Power (dBm)									
Po	wer vs. Chan	nel	Power vs. Data Rate							
Channel	Frequency	Data Rate	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Charmer	(MHz)	6Mbps	Chamilei	alvibha	12101000	TOMOPS	241VIDP3	JOINIDPS	401VIDP3	54MDP3
CH 01	2412	13.16								
CH 06	2437	13.47	CH 11	13.78	13.77	13.81	13.85	13.94	13.89	13.88
CH 11	2462	13.96								

	WLAN 2.4GHz 802.11n HT20 Average Power (dBm)										
Po	wer vs. Chann	nel		Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 01	2412	MCS0 11.42									
			01144	40.00	40.45	40.00	10.10	10.10	40.07	10.11	
CH 06	2437	11.75	CH 11	12.06	12.15	12.08	12.12	12.16	12.07	12.14	
CH 11	2462	12.20									

<WLAN 5GHz>

	WLAN 5GHz 802.11a Average Power (dBm)											
Pow	Power vs. Channel			Power vs. Data Rate								
Channel	Frequency (MHz)	Data Rate	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	()	6Mbps										
CH 36	5180	13.15										
CH 40	5200	12.48	CH 48	13.35	13.34	13.39	13.47	13.44	13.51	13.50		
CH 44	5220	12.73	CH 40	13.33	13.34	13.39	13.47	13.44	13.51	13.50		
CH 48	5240	13.52										
CH 149	5745	13.05										
CH 153	5765	13.01										
CH 157	5785	13.35	CH 157	13.24	13.22	13.28	13.26	13.30	13.34	13.28		
CH 161	5805	12.74										
CH 165	5825	12.80										

	WLAN 5GHz 802.11n HT20 Average Power (dBm)										
Pow	ver vs. Chann	el	Power vs. Data Rate								
Channel	Frequency (MHz)	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
	(2)	MCS0									
CH 36	5180	11.59									
CH 40	5200	10.97	CH 48	11.84	11.81	11.72	11.80	11.83	11.84	11.83	
CH 44	5220	11.26	UH 40	11.04	11.01	11.72	11.00	11.03	11.04	11.03	
CH 48	5240	11.86									
CH 149	5745	11.41									
CH 153	5765	11.49									
CH 157	5785	11.80	CH 157	11.77	11.73	11.59	11.66	11.72	11.74	11.77	
CH 161	5805	11.56									
CH 165	5825	11.30									

	WLAN 5GHz 802.11n HT40 Average Power (dBm)											
Pow	Power vs. Channel				Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	(IVIIIZ)	MCS0										
CH 38	5190	11.45	CH 46	11.40	11.42	11.55	11.53	11.45	11.53	11.54		
CH 46	5230	11.63	C1140	11.40	11.42	11.55	11.55	11.40	11.55	11.54		
CH 151	5755	11.51	CH 159	11.69	11.64	11.77	11.76	11.74	11.77	11.74		
CH 159	5795	11.79	CH 159	11.09	11.04	11.77	11.70	11.74	11.77	11.74		

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13. Bluetooth Exclusions Applied

Mode Band	Average power(dBm)						
IVIOUE DAIIU	Bluetooth v3.0 + EDR	Bluetooth v4.1 LE					
2.4GHz Bluetooth	6.0	1.0					

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Note:

Per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

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

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

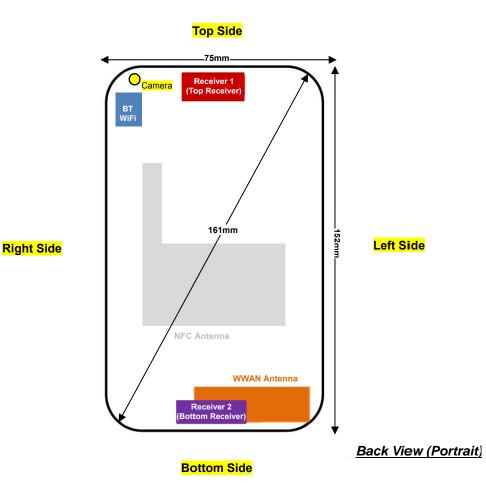
Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
6.0	0	2.48	1.3

Note:

Per KDB 447498 D01v05r02, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 1.3 which is <= 3, SAR testing is not required.

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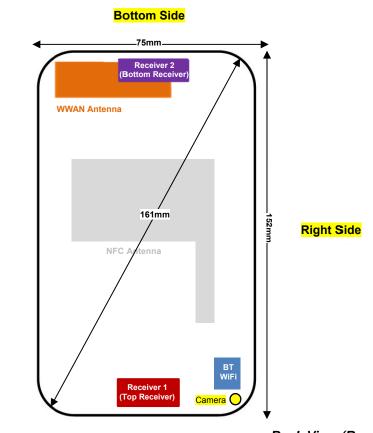
14. Antenna Location



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Left Side

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Back View (Reversed Portrait)

Yes

No

No

Yes

Yes

No

Top Side

	Distance	of the Antenna	to the EUT surf	face/edge										
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side								
WWAN	WWAN ≤ 25mm ≤ 25mm 135mm ≤ 25mm ≤ 25mm													
Bluetooth & WLAN	≤ 25mm	≤ 25mm	≤ 25mm	125mm	≤ 25mm	65mm								
	Pos	itions for SAR to	ests; Hotspot m	node										
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side								

No

Yes

WWAN

Bluetooth & WLAN

Yes

Yes

Referring to KDB 941225 D06 v02, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

Yes

Yes

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15. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v05r02, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- c. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v05r02, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - · ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - · ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - · ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 3. Per KDB648474 D04v01r02, 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, therefore the LTE Band 2 and LTE Band 7 were perform.
- 4. Pre KDB648474 D04v01r02, when the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.
- 5. This device has two sets of receivers and microphone, 1 receiver is located at the top and another one is located at the bottom of the phone. For the next-to-ear voice call the product allows the end user to use the device in the typical calling positions and in the reversed calling position. When the User Interface is in reversed portrait orientation, power reduction is implemented for the scenario that the bottom receiver is placed next-to-ear during the voice call except LTE Band 12/17, and SAR compliance was accessed for both orientations. The details of the power reduction mechanism for the reverse call are illustrated in the operational description.
- 6. Per KDB 648474 D04, for additional accessories (batteries, NFC and wireless charging battery covers or similar accessory), need repeat SAR testing at the worst position (head, and body-worn, and hotspot), for each wireless mode and each band. In addition, for test cases where the measured SAR for a handset without the accessory is greater than 1.2 W/kg, these tests should be repeated with the additional accessories.

GSM Note:

- 1. Per KDB 941225 D01v03, considering the possibility of e.g. 3rd party VoIP operation for head and body-worn SAR test reduction for GSM, GPRS, EDGE and DTM modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900.
- Per KDB 941225 D01v03, for hotspot SAR test reduction for GPRS, EDGE and DTM modes are determined by the source-based time-averaged output power including tune-up tolerance, for modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested, therefore, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900.

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WCDMA Note:

1. Per KDB 941225 D01v03, SAR for head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

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2. Per KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

WLAN Note:

 This device 2.4 GHz / 5.8GHz WLAN supports hotspot and WiFi Direct (GC / GO) operation, and 5.2GHz WLAN supports WiFi Direct (GC only).

LTE Note:

- 1. Per KDB 941225 D05v02r03, 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 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 3. Per KDB 941225 D05v02r03, 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 D05v02r03, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r03, 16QAM SAR testing is not required.
- Per KDB 941225 D05v02r03, 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 D05v02r03, smaller bandwidth SAR testing is not required.

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15.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Receiver Enabled	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)
	GSM850	GPRS (4 Tx slots)	Right Cheek	Receiver 1	OFF	251	848.8	28.36	29	1.159	0.09	0.393	0.455
	GSM850	GPRS (4 Tx slots)	Right Tilted	Receiver 1	OFF	251	848.8	28.36	29	1.159	-0.05	0.202	0.234
	GSM850	GPRS (4 Tx slots)	Left Cheek	Receiver 1	OFF	251	848.8	28.36	29	1.159	0.12	0.415	0.481
	GSM850	GPRS (4 Tx slots)	Left Cheek	Receiver 1	OFF	128	824.2	28.03	29	1.250	0.041	0.257	0.321
	GSM850	GPRS (4 Tx slots)	Left Cheek	Receiver 1	OFF	189	836.4	28.22	29	1.197	0.03	0.292	0.349
	GSM850	GPRS (4 Tx slots)	Left Tilted	Receiver 1	OFF	251	848.8	28.36	29	1.159	0.16	0.241	0.279
	GSM850	GPRS (4 Tx slots)	Right Cheek	Receiver 2	ON	251	848.8	24.65	25	1.084	0.03	0.607	0.658
	GSM850	GPRS (4 Tx slots)	Right Tilted	Receiver 2	ON	251	848.8	24.65	25	1.084	-0.03	0.468	0.507
#01	GSM850	GPRS (4 Tx slots)	Left Cheek	Receiver 2	ON	251	848.8	24.65	25	1.084	0.03	0.896	0.971
	GSM850	GPRS (4 Tx slots)	Left Cheek	Receiver 2	ON	128	824.2	24.23	25	1.194	0.03	0.732	0.874
	GSM850	GPRS (4 Tx slots)	Left Cheek	Receiver 2	ON	189	836.4	24.41	25	1.146	0.0011	0.841	0.963
	GSM850	GPRS (4 Tx slots)	Left Tilted	Receiver 2	ON	251	848.8	24.65	25	1.084	0.02	0.695	0.753
	GSM1900	GPRS (4 Tx slots)	Right Cheek	Receiver 1	OFF	512	1850.2	24.91	25.5	1.146	0.04	0.209	0.239
	GSM1900	GPRS (4 Tx slots)	Right Tilted	Receiver 1	OFF	512	1850.2	24.91	25.5	1.146	0.07	0.111	0.127
	GSM1900	GPRS (4 Tx slots)	Left Cheek	Receiver 1	OFF	512	1850.2	24.91	25.5	1.146	-0.02	0.236	0.270
	GSM1900	GPRS (4 Tx slots)	Left Cheek	Receiver 1	OFF	661	1880	24.8	25.5	1.175	-0.12	0.206	0.242
	GSM1900	GPRS (4 Tx slots)	Left Cheek	Receiver 1	OFF	810	1910	24.7	25.5	1.202	0.13	0.212	0.255
	GSM1900	GPRS (4 Tx slots)	Left Tilted	Receiver 1	OFF	512	1850.2	24.91	25.5	1.146	0.07	0.172	0.197
	GSM1900	GPRS (4 Tx slots)	Right Cheek	Receiver 2	ON	512	1850.2	19.26	20	1.186	0.0071	0.445	0.528
	GSM1900	GPRS (4 Tx slots)	Right Tilted	Receiver 2	ON	512	1850.2	19.26	20	1.186	0.03	0.466	0.553
	GSM1900	GPRS (4 Tx slots)	Left Cheek	Receiver 2	ON	512	1850.2	19.26	20	1.186	-0.04	0.749	0.888
	GSM1900	GPRS (4 Tx slots)	Left Cheek	Receiver 2	ON	661	1880	19.2	20	1.202	-0.08	0.774	0.931
	GSM1900	GPRS (4 Tx slots)	Left Cheek	Receiver 2	ON	810	1909.8	19.11	20	1.227	-0.1	0.811	0.995
	GSM1900	GPRS (4 Tx slots)	Left Tilted	Receiver 2	ON	512	1850.2	19.26	20	1.186	-0.01	0.819	0.971
	GSM1900	GPRS (4 Tx slots)	Left Tilted	Receiver 2	ON	661	1880	19.2	20	1.202	-0.04	0.857	1.030
#02	GSM1900	GPRS (4 Tx slots)	Left Tilted	Receiver 2	ON	810	1909.8	19.11	20	1.227	-0.03	0.899	1.103

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<WCDMA SAR>

Plot	Band	Mode	Test	Receiver	Power	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
No.	Danu	Mode	Position	Enabled	Reduction	CII.	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	WCDMA Band V	RMC12.2Kbps	Right Cheek	Receiver 1	OFF	4233	846.6	23.76	24	1.057	-0.06	0.260	0.275
	WCDMA Band V	RMC12.2Kbps	Right Cheek	Receiver 1	OFF	4132	826.4	23.68	24	1.076	0.0022	0.289	0.311
	WCDMA Band V	RMC12.2Kbps	Right Cheek	Receiver 1	OFF	4182	836.4	23.69	24	1.074	0.039	0.308	0.331
	WCDMA Band V	RMC12.2Kbps	Right Tilted	Receiver 1	OFF	4233	846.6	23.76	24	1.057	-0.0039	0.140	0.148
	WCDMA Band V	RMC12.2Kbps	Left Cheek	Receiver 1	OFF	4233	846.6	23.76	24	1.057	-0.06	0.182	0.192
	WCDMA Band V	RMC12.2Kbps	Left Tilted	Receiver 1	OFF	4233	846.6	23.76	24	1.057	0.03	0.166	0.175
	WCDMA Band V	RMC12.2Kbps	Right Cheek	Receiver 2	ON	4233	846.6	22.09	22.5	1.099	0.13	0.518	0.569
	WCDMA Band V	RMC12.2Kbps	Right Tilted	Receiver 2	ON	4233	846.6	22.09	22.5	1.099	-0.004	0.559	0.614
	WCDMA Band V	RMC12.2Kbps	Left Cheek	Receiver 2	ON	4233	846.6	22.09	22.5	1.099	-0.01	0.704	0.774
	WCDMA Band V	RMC12.2Kbps	Left Tilted	Receiver 2	ON	4233	846.6	22.09	22.5	1.099	0.12	0.764	0.840
#03	WCDMA Band V	RMC12.2Kbps	Left Tilted	Receiver 2	ON	4132	826.4	21.97	22.5	1.130	0.07	0.871	<mark>0.984</mark>
	WCDMA Band V	RMC12.2Kbps	Left Tilted	Receiver 2	ON	4182	836.4	22.02	22.5	1.117	0.06	0.814	0.909
	WCDMA Band IV	RMC12.2Kbps	Right Cheek	Receiver 1	OFF	1312	1712.4	23.13	23.5	1.000	-0.11	0.278	0.278
	WCDMA Band IV	RMC12.2Kbps	Right Tilted	Receiver 1	OFF	1312	1712.4	23.13	23.5	1.089	0.04	0.144	0.157
	WCDMA Band IV	RMC12.2Kbps	Left Cheek	Receiver 1	OFF	1312	1712.4	23.13	23.5	1.089	-0.08	0.321	0.350
	WCDMA Band IV	RMC12.2Kbps	Left Cheek	Receiver 1	OFF	1413	1732.6	23.06	23.5	1.107	0.03	0.279	0.309
	WCDMA Band IV	RMC12.2Kbps	Left Cheek	Receiver 1	OFF	1513	1752.6	23.07	23.5	1.104	0.02	0.322	0.356
	WCDMA Band IV	RMC12.2Kbps	Left Tilted	Receiver 1	OFF	1312	1712.4	23.13	23.5	1.089	0.03	0.213	0.232
	WCDMA Band IV	RMC12.2Kbps	Right Cheek	Receiver 2	ON	1312	1712.4	16.96	17.5	1.132	0.04	0.523	0.592
	WCDMA Band IV	RMC12.2Kbps	Right Tilted	Receiver 2	ON	1312	1712.4	16.96	17.5	1.132	-0.01	0.456	0.516
	WCDMA Band IV	RMC12.2Kbps	Left Cheek	Receiver 2	ON	1312	1712.4	16.96	17.5	1.132	0.02	0.830	0.940
#04	WCDMA Band IV	RMC12.2Kbps	Left Cheek	Receiver 2	ON	1413	1732.6	16.85	17.5	1.161	-0.02	0.922	1.071
	WCDMA Band IV	RMC12.2Kbps	Left Cheek	Receiver 2	ON	1513	1752.6	16.88	17.5	1.153	-0.04	0.852	0.983
	WCDMA Band IV	RMC12.2Kbps	Left Tilted	Receiver 2	ON	1312	1712.4	16.96	17.5	1.132	0.002	0.667	0.755
	WCDMA Band II	RMC12.2Kbps	Right Cheek	Receiver 1	OFF	9538	1907.6	23.19	23.5	1.000	0.03	0.251	0.251
	WCDMA Band II	RMC12.2Kbps	Right Tilted	Receiver 1	OFF	9538	1907.6	23.19	23.5	1.074	0.07	0.117	0.126
	WCDMA Band II	RMC12.2Kbps	Left Cheek	Receiver 1	OFF	9538	1907.6	23.19	23.5	1.074	-0.07	0.283	0.304
	WCDMA Band II	RMC12.2Kbps	Left Cheek	Receiver 1	OFF	9262	1852.4	23.11	23.5	1.094	-0.06	0.251	0.275
	WCDMA Band II	RMC12.2Kbps	Left Cheek	Receiver 1	OFF	9400	1880	23.14	23.5	1.086	-0.12	0.248	0.269
	WCDMA Band II	RMC12.2Kbps	Left Tilted	Receiver 1	OFF	9538	1907.6	23.19	23.5	1.074	0.05	0.170	0.183
	WCDMA Band II	RMC12.2Kbps	Right Cheek	Receiver 2	ON	9538	1907.6	16.93	17.5	1.000	-0.02	0.526	0.526
	WCDMA Band II	RMC12.2Kbps	Right Tilted	Receiver 2	ON	9538	1907.6	16.93	17.5	1.140	-0.03	0.511	0.583
	WCDMA Band II	RMC12.2Kbps	Left Cheek	Receiver 2	ON	9538	1907.6	16.93	17.5	1.140	-0.05	1.110	1.266
#05	WCDMA Band II	RMC12.2Kbps	Left Cheek	Receiver 2	ON	9262	1852.4	16.8	17.5	1.175	-0.0045	1.120	1.316
	WCDMA Band II	RMC12.2Kbps	Left Cheek	Receiver 2	ON	9400	1880	16.86	17.5	1.159	-0.01	1.110	1.286
	WCDMA Band II	RMC12.2Kbps	Left Tilted	Receiver 2	ON	9538	1907.6	16.93	17.5	1.140	-0.03	1.010	1.152
	WCDMA Band II	RMC12.2Kbps	Left Tilted	Receiver 2	ON	9262	1852.4	16.8	17.5	1.175	-0.0006	0.971	1.141
	WCDMA Band II	RMC12.2Kbps	Left Tilted	Receiver 2	ON	9400	1880	16.86	17.5	1.159	-0.03	1.050	1.217

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FCC SAR Test Report

<LTE SAR>

DI-4		DW		DD	DD	T4	Deseiven	D		F	Average	Tune-Up	Tune-up	Power	Measured	Reported
Plot No.	Band	BW (MHz)	Mode	RB Size	RB offset	Test Position	Receiver Enabled	Power Reduction	Ch.	Freq. (MHz)	Power	Limit	Scaling	Drift	1g SAR	1g SAR
. 10.	LTE Dand 40	,	ODCK						22005	,	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 12 LTE Band 12	10M 10M	QPSK QPSK	1 25	0	Right Check	Receiver 1	OFF OFF	23095 23095	707.5 707.5	23.68	24	1.076 1.094	0.07	0.062	0.067
					_	Right Cheek	Receiver 1									
	LTE Band 12	10M	QPSK	1	0	Right Tilted	Receiver 1	OFF	23095	707.5	23.68	24	1.076	0.099	0.037	0.040
	LTE Band 12	10M	QPSK	25	0	Right Tilted	Receiver 1	OFF	23095	707.5	22.61		1.094	0.032	0.032	0.035
	LTE Band 12	10M	QPSK	1	0	Left Cheek	Receiver 1	OFF	23095	707.5	23.68	24	1.076	-0.091	0.069	0.074
	LTE Band 12	10M	QPSK	25	0	Left Cheek	Receiver 1	OFF	23095	707.5	22.61	23	1.094	0.03	0.060	0.066
	LTE Band 12	10M	QPSK	1	0	Left Tilted	Receiver 1	OFF	23095	707.5	23.68	24	1.076	0.1	0.040	0.043
	LTE Band 12	10M	QPSK	25	0	Left Tilted	Receiver 1	OFF	23095	707.5	22.61	23	1.094	0.09	0.046	0.050
	LTE Band 12	10M	QPSK	1	0	Left Cheek	Receiver 1	OFF	23060	704	23.51	24	1.119	0.05	0.058	0.065
	LTE Band 12	10M	QPSK	1	0	Left Cheek	Receiver 1	OFF	23130	711	23.57	24	1.104	0.05	0.073	0.081
	LTE Band 12	10M	QPSK	1	0	Right Cheek	Receiver 2	OFF	23095	707.5	23.68	24	1.076	0.04	0.375	0.404
	LTE Band 12	10M	QPSK	25	0	Right Cheek	Receiver 2	OFF	23095	707.5	22.61	23	1.094	0.03	0.318	0.348
	LTE Band 12	10M	QPSK	1	0	Right Tilted	Receiver 2	OFF	23095	707.5	23.68	24	1.076	-0.02	0.346	0.372
	LTE Band 12	10M	QPSK	25	0	Right Tilted	Receiver 2	OFF	23095	707.5	22.61	23	1.094	-0.07	0.289	0.316
	LTE Band 12	10M	QPSK	1	0	Left Cheek	Receiver 2	OFF	23095	707.5	23.68	24	1.076	-0.01	0.643	0.692
	LTE Band 12	10M	QPSK	1	0	Left Cheek	Receiver 2	OFF	23060	704	23.51	24	1.119	0.023	0.736	0.824
#06	LTE Band 12	10M	QPSK	1	0	Left Cheek	Receiver 2	OFF	23130	711	23.57	24	1.104	0.04	0.901	<mark>0.995</mark>
	LTE Band 12	10M	QPSK	25	0	Left Cheek	Receiver 2	OFF	23095	707.5	22.61	23	1.094	0.03	0.552	0.604
	LTE Band 12	10M	QPSK	50	0	Left Cheek	Receiver 2	OFF	23095	707.5	22.48	23	1.127	0.15	0.643	0.725
	LTE Band 12	10M	QPSK	1	0	Left Tilted	Receiver 2	OFF	23095	707.5	23.68	24	1.076	0.13	0.589	0.634
	LTE Band 12	10M	QPSK	25	0	Left Tilted	Receiver 2	OFF	23095	707.5	22.61	23	1.094	0.04	0.499	0.546
	LTE Band 17	10M	QPSK	1	0	Right Cheek	Receiver 1	OFF	23790	710	23.6	24	1.096	0.08	0.072	0.079
	LTE Band 17	10M	QPSK	25	0	Right Cheek	Receiver 1	OFF	23790	710	22.62	23	1.091	0.04	0.058	0.063
	LTE Band 17	10M	QPSK	1	0	Right Tilted	Receiver 1	OFF	23790	710	23.6	24	1.096	0.054	0.042	0.046
	LTE Band 17	10M	QPSK	25	0	Right Tilted	Receiver 1	OFF	23790	710	22.62	23	1.091	0.044	0.034	0.037
	LTE Band 17	10M	QPSK	1	0	Left Cheek	Receiver 1	OFF	23790	710	23.6	24	1.096	0.07	0.079	0.087
	LTE Band 17	10M	QPSK	1	0	Left Cheek	Receiver 1	OFF	23780	709	23.39	24	1.151	0.14	0.074	0.085
	LTE Band 17	10M	QPSK	1	0	Left Cheek	Receiver 1	OFF	23800	711	23.5	24	1.122	0.039	0.079	0.089
	LTE Band 17	10M	QPSK	25	0	Left Cheek	Receiver 1	OFF	23790	710	22.62	23	1.091	0.05	0.064	0.070
	LTE Band 17	10M	QPSK	1	0	Left Tilted	Receiver 1	OFF	23790	710	23.6	24	1.096	0.11	0.052	0.057
	LTE Band 17	10M	QPSK	25	0	Left Tilted	Receiver 1	OFF	23790	710	22.62	23	1.091	0.18	0.041	0.045
	LTE Band 17	10M	QPSK	1	0	Right Cheek	Receiver 2		23790	710	23.6	24	1.096	-0.03	0.404	0.443
	LTE Band 17	10M	QPSK	25	0	Right Cheek	Receiver 2	OFF	23790	710	22.62	23	1.091	0.0052	0.355	0.387
	LTE Band 17	10M	QPSK	1	0	Right Tilted	Receiver 2	OFF	23790	710	23.6	24	1.096	-0.09	0.407	0.446
	LTE Band 17	10M	QPSK	25	0	Right Tilted	Receiver 2		23790	710	22.62	23	1.091	0.04	0.324	0.354
	LTE Band 17	10M	QPSK	1	0	Left Cheek	Receiver 2	OFF	23790	710	23.6	24	1.096	-0.021	0.716	0.785
#07	LTE Band 17	10M	QPSK	1	0	Left Cheek	Receiver 2		23780	709	23.39	24	1.151	0.17	0.890	1.024
#01	LTE Band 17	10M	QPSK	1	0	Left Cheek	Receiver 2		23800	711	23.5	24	1.122	0.17	0.839	0.941
	LTE Band 17	10M	QPSK	25	0	Left Cheek	Receiver 2	OFF	23790	710	22.62	23	1.091	-0.02	0.639	0.650
				50	0					710	22.55	23	1.1091	0.02	0.622	0.690
	LTE Band 17	10M	QPSK			Left Cheek	Receiver 2		23790							
	LTE Band 17	10M	QPSK	1	0	Left Tilted	Receiver 2		23790	710	23.6	24	1.096	-0.11	0.646	0.708
	LTE Band 17	10M	QPSK	25	0	Left Tilted	Receiver 2	OFF	23790	710	22.62	23	1.091	-0.07	0.527	0.575

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													_	_		
Plot	Band	BW	Mode	RB	RB	Test	Receiver	Power	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
No.	Ballu	(MHz)	Mode	Size	offset	Position	Enabled	Reduction	CII.	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 5	10M	QPSK	1	24	Right Cheek	Receiver 1	OFF	20525	836.5	23.74	24	1.062	0.09	0.273	0.290
	LTE Band 5	10M	QPSK	1	24	Right Cheek	Receiver 1	OFF	20450	829	23.68	24	1.076	0.039	0.289	0.311
	LTE Band 5	10M	QPSK	1	24	Right Cheek	Receiver 1	OFF	20600	844	23.47	24	1.130	0.051	0.294	0.332
	LTE Band 5	10M	QPSK	25	0	Right Cheek	Receiver 1	OFF	20525	836.5	22.6	23	1.096	0.05	0.215	0.236
	LTE Band 5	10M	QPSK	1	24	Right Tilted	Receiver 1	OFF	20525	836.5	23.74	24	1.062	0.07	0.158	0.168
	LTE Band 5	10M	QPSK	25	0	Right Tilted	Receiver 1	OFF	20525	836.5	22.6	23	1.096	0.07	0.126	0.138
	LTE Band 5	10M	QPSK	1	24	Left Cheek	Receiver 1	OFF	20525	836.5	23.74	24	1.062	0.05	0.268	0.285
	LTE Band 5	10M	QPSK	25	0	Left Cheek	Receiver 1	OFF	20525	836.5	22.6	23	1.096	0.03	0.211	0.231
	LTE Band 5	10M	QPSK	1	24	Left Tilted	Receiver 1	OFF	20525	836.5	23.74	24	1.062	0.09	0.175	0.186
	LTE Band 5	10M	QPSK	25	0	Left Tilted	Receiver 1	OFF	20525	836.5	22.6	23	1.096	0.16	0.141	0.155
	LTE Band 5	10M	QPSK	1	0	Right Cheek	Receiver 2	ON	20600	844	22.42	23	1.143	0.04	0.876	1.001
	LTE Band 5	10M	QPSK	1	0	Right Cheek	Receiver 2	ON	20450	829	22.35	23	1.161	-0.08	0.948	1.101
	LTE Band 5	10M	QPSK	1	0	Right Cheek	Receiver 2	ON	20525	836.5	22.39	23	1.151	-0.02	0.848	0.976
	LTE Band 5	10M	QPSK	25	0	Right Cheek	Receiver 2	ON	20600	844	22.1	23	1.230	-0.16	0.782	0.962
	LTE Band 5	10M	QPSK	25	0	Right Cheek	Receiver 2	ON	20450	829	22.08	23	1.236	0.02	0.875	1.081
	LTE Band 5	10M	QPSK	25	0	Right Cheek	Receiver 2	ON	20525	836.5	22	23	1.259	0.01	0.836	1.052
	LTE Band 5	10M	QPSK	50	0	Right Cheek	Receiver 2	ON	20525	836.5	22.02	23	1.253	-0.01	0.861	1.079
	LTE Band 5	10M	QPSK	1	0	Right Tilted	Receiver 2	ON	20600	844	22.42	23	1.143	-0.09	0.631	0.721
	LTE Band 5	10M	QPSK	25	0	Right Tilted	Receiver 2	ON	20600	844	22.1	23	1.230	0.11	0.569	0.700
	LTE Band 5	10M	QPSK	1	0	Left Cheek	Receiver 2	ON	20600	844	22.42	23	1.143	0.07	0.729	0.833
	LTE Band 5	10M	QPSK	1	0	Left Cheek	Receiver 2	ON	20450	829	22.35	23	1.161	-0.04	0.831	0.965
	LTE Band 5	10M	QPSK	1	0	Left Cheek	Receiver 2	ON	20525	836.5	22.39	23	1.151	0.07	0.756	0.870
	LTE Band 5	10M	QPSK	25	0	Left Cheek	Receiver 2	ON	20600	844	22.1	23	1.230	0.04	0.679	0.835
	LTE Band 5	10M	QPSK	25	0	Left Cheek	Receiver 2	ON	20450	829	22.08	23	1.236	0.01	0.816	1.009
	LTE Band 5	10M	QPSK	25	0	Left Cheek	Receiver 2	ON	20525	836.5	22	23	1.259	0.03	0.757	0.953
#08	LTE Band 5	10M	QPSK	50	0	Left Cheek	Receiver 2	ON	20525	836.5	22.02	23	1.253	-0.0067	0.953	1.194
	LTE Band 5	10M	QPSK	1	0	Left Tilted	Receiver 2	ON	20600	844	22.42	23	1.143	-0.02	0.838	0.958
	LTE Band 5	10M	QPSK	1	0	Left Tilted	Receiver 2	ON	20450	829	22.35	23	1.161	-0.1	0.901	1.046
	LTE Band 5	10M	QPSK	1	0	Left Tilted	Receiver 2	ON	20525	836.5	22.39	23	1.151	-0.09	0.830	0.955
	LTE Band 5	10M	QPSK	25	0	Left Tilted	Receiver 2	ON	20600	844	22.1	23	1.230	-0.05	0.761	0.936
	LTE Band 5	10M	QPSK	25	0	Left Tilted	Receiver 2	ON	20450	829	22.08	23	1.236	0.05	0.826	1.021
	LTE Band 5	10M	QPSK	25	0	Left Tilted	Receiver 2	ON	20525	836.5	22	23	1.259	-0.05	0.795	1.001
	LTE Band 5	10M	QPSK	50	0	Left Tilted	Receiver 2	ON	20525	836.5	22.02	23	1.253	-0.06	0.779	0.976

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Plot No.	Band	BW (MHz)	Mode	RB Size	RB offset	Test Position	Receiver Enabled	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 4	20M	QPSK	1	0	Right Cheek	Receiver 1	OFF	20175	1732.5	23.65	24	1.084	-0.02	0.326	0.353
	LTE Band 4	20M	QPSK	1	0	Right Cheek	Receiver 1	OFF	20050	1720	23.36	24	1.159	0.09	0.267	0.309
	LTE Band 4	20M	QPSK	1	0	Right Cheek	Receiver 1	OFF	20300	1745	23.29	24	1.178	0.07	0.329	0.387
	LTE Band 4	20M	QPSK	50	0	Right Cheek	Receiver 1	OFF	20175	1732.5	22.42	23	1.143	0.04	0.245	0.280
	LTE Band 4	20M	QPSK	1	0	Right Tilted	Receiver 1	OFF	20175	1732.5	23.65	24	1.084	-0.01	0.173	0.188
	LTE Band 4	20M	QPSK	50	0	Right Tilted	Receiver 1	OFF	20175	1732.5	22.42	23	1.143	0.05	0.130	0.149
	LTE Band 4	20M	QPSK	1	0	Left Cheek	Receiver 1	OFF	20175	1732.5	23.65	24	1.084	0.055	0.313	0.339
	LTE Band 4	20M	QPSK	50	0	Left Cheek	Receiver 1	OFF	20175	1732.5	22.42	23	1.143	0.01	0.238	0.272
	LTE Band 4	20M	QPSK	1	0	Left Tilted	Receiver 1	OFF	20175	1732.5	23.65	24	1.084	0.035	0.269	0.292
	LTE Band 4	20M	QPSK	50	0	Left Tilted	Receiver 1	OFF	20175	1732.5	22.42	23	1.143	0.18	0.203	0.232
	LTE Band 4	20M	QPSK	1	0	Right Cheek	Receiver 2	ON	20175	1732.5	17.66	18	1.081	-0.025	0.509	0.550
	LTE Band 4	20M	QPSK	50	0	Right Cheek	Receiver 2	ON	20175	1732.5	17.57	18	1.104	0.02	0.510	0.563
	LTE Band 4	20M	QPSK	1	0	Right Tilted	Receiver 2	ON	20175	1732.5	17.66	18	1.081	0.02	0.485	0.524
	LTE Band 4	20M	QPSK	50	0	Right Tilted	Receiver 2	ON	20175	1732.5	17.57	18	1.104	-0.04	0.477	0.527
	LTE Band 4	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	20175	1732.5	17.66	18	1.081	-0.03	0.795	0.860
	LTE Band 4	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	20050	1720	17.55	18	1.109	-0.16	0.825	0.915
#09	LTE Band 4	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	20300	1745	17.55	18	1.109	0.09	0.919	1.019
	LTE Band 4	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	20175	1732.5	17.57	18	1.104	0.01	0.833	0.920
	LTE Band 4	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	20050	1720	17.5	18	1.122	0.02	0.767	0.861
	LTE Band 4	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	20300	1745	17.5	18	1.122	0.04	0.886	0.994
	LTE Band 4	20M	QPSK	100	0	Left Cheek	Receiver 2	ON	20175	1732.5	17.44	18	1.138	0.01	0.824	0.937
	LTE Band 4	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	20175	1732.5	17.66	18	1.081	-0.023	0.827	0.894
	LTE Band 4	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	20050	1720	17.55	18	1.109	0.031	0.698	0.774
	LTE Band 4	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	20300	1745	17.55	18	1.109	0.02	0.861	0.955
	LTE Band 4	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	20175	1732.5	17.57	18	1.104	-0.01	0.771	0.851
	LTE Band 4	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	20050	1720	17.5	18	1.122	0.02	0.728	0.817
	LTE Band 4	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	20300	1745	17.5	18	1.122	0.0017	0.852	0.956
	LTE Band 4	20M	QPSK	100	0	Left Tilted	Receiver 2	ON	20175	1732.5	17.44	18	1.138	-0.0055	0.790	0.899

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Plot No.	Band	BW (MHz)	Mode	RB Size	RB offset	Test Position	Receiver Enabled	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	Right Cheek	Receiver 1	OFF	18900	1880	22.98	23.5	1.127	-0.09	0.289	0.326
	LTE Band 2	20M	QPSK	50	0	Right Cheek	Receiver 1	OFF	18900	1880	20.84	22.5	1.466	0.1	0.150	0.220
	LTE Band 2	20M	QPSK	1	0	Right Tilted	Receiver 1	OFF	18900	1880	22.98	23.5	1.127	-0.02	0.141	0.159
	LTE Band 2	20M	QPSK	50	0	Right Tilted	Receiver 1	OFF	18900	1880	20.84	22.5	1.466	0.02	0.073	0.107
	LTE Band 2	20M	QPSK	1	0	Left Cheek	Receiver 1	OFF	18900	1880	22.98	23.5	1.127	0.07	0.296	0.334
	LTE Band 2	20M	QPSK	1	0	Left Cheek	Receiver 1	OFF	18700	1860	22.77	23.5	1.183	-0.07	0.310	0.367
	LTE Band 2	20M	QPSK	1	0	Left Cheek	Receiver 1	OFF	19100	1900	22.85	23.5	1.161	-0.05	0.284	0.330
	LTE Band 2	20M	QPSK	50	0	Left Cheek	Receiver 1	OFF	18900	1880	20.84	22.5	1.466	0.02	0.200	0.293
	LTE Band 2	20M	QPSK	1	0	Left Tilted	Receiver 1	OFF	18900	1880	22.98	23.5	1.127	0.16	0.243	0.274
	LTE Band 2	20M	QPSK	50	0	Left Tilted	Receiver 1	OFF	18900	1880	20.84	22.5	1.466	0.16	0.129	0.189
	LTE Band 2	20M	QPSK	1	0	Right Cheek	Receiver 2	ON	18900	1880	16.56	17	1.107	-0.024	0.543	0.601
	LTE Band 2	20M	QPSK	50	0	Right Cheek	Receiver 2	ON	18900	1880	16.22	17	1.197	-0.03	0.474	0.567
	LTE Band 2	20M	QPSK	1	0	Right Tilted	Receiver 2	ON	18900	1880	16.56	17	1.107	0.06	0.531	0.588
	LTE Band 2	20M	QPSK	50	0	Right Tilted	Receiver 2	ON	18900	1880	16.22	17	1.197	-0.06	0.456	0.546
	LTE Band 2	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	18900	1880	16.56	17	1.107	-0.09	0.983	1.088
	LTE Band 2	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	18700	1860	16.5	17	1.122	-0.07	0.918	1.030
	LTE Band 2	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	19100	1900	16.45	17	1.135	0.08	0.921	1.045
	LTE Band 2	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	18900	1880	16.22	17	1.197	0.07	0.872	1.044
#10	LTE Band 2	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	18700	1860	16.15	17	1.216	0.05	0.922	1.121
	LTE Band 2	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	19100	1900	16.17	17	1.211	-0.02	0.911	1.103
	LTE Band 2	20M	QPSK	100	0	Left Cheek	Receiver 2	ON	18900	1880	16.14	17	1.219	0.07	0.905	1.103
	LTE Band 2	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	18900	1880	16.56	17	1.107	-0.021	0.850	0.941
	LTE Band 2	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	18700	1860	16.5	17	1.122	-0.007	0.871	0.977
	LTE Band 2	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	19100	1900	16.45	17	1.135	-0.1	0.889	1.009
	LTE Band 2	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	18900	1880	16.22	17	1.197	0.02	0.827	0.990
	LTE Band 2	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	18700	1860	16.15	17	1.216	-0.02	0.814	0.990
	LTE Band 2	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	19100	1900	16.17	17	1.211	-0.03	0.820	0.993
	LTE Band 2	20M	QPSK	100	0	Left Tilted	Receiver 2	ON	18900	1880	16.14	17	1.219	0.03	0.811	0.989

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Plot No.	Band	BW (MHz)	Mode	RB Size	RB offset	Test Position	Receiver Enabled	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 7	20M	QPSK	1	0	Right Cheek	Receiver 1	OFF	21100	2535	21.28	21.5	1.052	0.1	0.012	0.013
	LTE Band 7	20M	QPSK	50	0	Right Cheek	Receiver 1	OFF	21100	2535	20.1	20.5	1.096	0.11	0.013	0.014
	LTE Band 7	20M	QPSK	1	0	Right Tilted	Receiver 1	OFF	21100	2535	21.28	21.5	1.052	0.1	0.0066	0.007
	LTE Band 7	20M	QPSK	50	0	Right Tilted	Receiver 1	OFF	21100	2535	20.1	20.5	1.096	0.1	0.00511	0.006
	LTE Band 7	20M	QPSK	1	0	Left Cheek	Receiver 1	OFF	21100	2535	21.28	21.5	1.052	0.01	0.030	0.032
	LTE Band 7	20M	QPSK	1	0	Left Cheek	Receiver 1	OFF	20850	2510	21.02	21.5	1.117	0.1	0.024	0.027
	LTE Band 7	20M	QPSK	1	0	Left Cheek	Receiver 1	OFF	21350	2560	21.08	21.5	1.102	0.079	0.036	0.040
	LTE Band 7	20M	QPSK	50	0	Left Cheek	Receiver 1	OFF	21100	2535	20.1	20.5	1.096	0.12	0.022	0.024
	LTE Band 7	20M	QPSK	1	0	Left Tilted	Receiver 1	OFF	21100	2535	21.28	21.5	1.052	0.1	0.00385	0.004
	LTE Band 7	20M	QPSK	50	0	Left Tilted	Receiver 1	OFF	21100	2535	20.1	20.5	1.096	0.085	0.00649	0.007
	LTE Band 7	20M	QPSK	1	0	Right Cheek	Receiver 2	ON	21100	2535	18.27	18.5	1.054	0.033	0.543	0.573
	LTE Band 7	20M	QPSK	50	0	Right Cheek	Receiver 2	ON	21100	2535	18.05	18.5	1.109	-0.022	0.487	0.540
	LTE Band 7	20M	QPSK	1	0	Right Tilted	Receiver 2	ON	21100	2535	18.27	18.5	1.054	-0.08	0.543	0.573
	LTE Band 7	20M	QPSK	50	0	Right Tilted	Receiver 2	ON	21100	2535	18.05	18.5	1.109	-0.16	0.520	0.577
	LTE Band 7	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	21100	2535	18.27	18.5	1.054	0.02	0.927	0.977
	LTE Band 7	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	20850	2510	18.25	18.5	1.059	-0.03	0.880	0.932
	LTE Band 7	20M	QPSK	1	0	Left Cheek	Receiver 2	ON	21350	2560	18.05	18.5	1.109	-0.028	1.150	1.276
	LTE Band 7	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	21100	2535	18.05	18.5	1.109	0.19	0.902	1.000
	LTE Band 7	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	20850	2510	18.02	18.5	1.117	0.04	0.790	0.882
	LTE Band 7	20M	QPSK	50	0	Left Cheek	Receiver 2	ON	21350	2560	18.00	18.5	1.122	0.08	1.030	1.156
	LTE Band 7	20M	QPSK	100	0	Left Cheek	Receiver 2	ON	21100	2535	17.99	18.5	1.125	-0.12	0.915	1.029
	LTE Band 7	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	21100	2535	18.27	18.5	1.054	-0.0085	0.911	0.961
	LTE Band 7	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	20850	2510	18.25	18.5	1.059	-0.04	0.802	0.850
#11	LTE Band 7	20M	QPSK	1	0	Left Tilted	Receiver 2	ON	21350	2560	18.05	18.5	1.109	0.14	1.180	1.309
	LTE Band 7	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	21100	2535	18.05	18.5	1.109	0.02	0.915	1.015
	LTE Band 7	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	20850	2510	18.02	18.5	1.117	0.1	0.798	0.891
	LTE Band 7	20M	QPSK	50	0	Left Tilted	Receiver 2	ON	21350	2560	18.00	18.5	1.122	0.09	1.070	1.201
	LTE Band 7	20M	QPSK	100	0	Left Tilted	Receiver 2	ON	21100	2535	17.99	18.5	1.125	-0.02	0.931	1.047

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<WLAN SAR>

											Duty			
Plot No.	Band	Mode	Test Position	Receiver Enabled	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAND 4CH	902 11h 1Mhna	Dight Chook	Desciver 1	11	2462	18.14	18.5	1.086	97.64	Factor 1.024	0.02	0.292	0.325
		802.11b_1Mbps	Right Cheek	Receiver 1		2462	18.14	18.5	1.086	97.64	1.024	-0.02	0.292	0.325
		802.11b_1Mbps	Right Tilted	Receiver 1	11	2462	18.14	18.5	1.086	97.64	1.024	-0.07	0.602	0.235
		802.11b_1Mbps	Left Cheek	Receiver 1										
#40		802.11b_1Mbps	Left Cheek	Receiver 1	1	2412	17.3	18.5	1.318	97.64	1.024	-0.04	0.879	1.187 1.385
#12		802.11b_1Mbps	Left Cheek	Receiver 1	6	2437	17.44	18.5	1.276	97.64	1.024	0.10	1.060	
		802.11b_1Mbps	Left Tilted	Receiver 1	11	2462	18.14	18.5	1.086	97.64	1.024	0.05	0.490	0.545
		802.11b_1Mbps	Right Cheek	Receiver 2	11	2462	18.14	18.5	1.086	97.64	1.024	0.07	0.016	0.018
		802.11b_1Mbps	Right Tilted	Receiver 2	11	2462	18.14	18.5	1.086	97.64	1.024	-0.17	0.015	0.017
		802.11b_1Mbps	Left Cheek	Receiver 2	11	2462	18.14	18.5	1.086	97.64	1.024	-0.084	0.019	0.021
		802.11b_1Mbps	Left Cheek	Receiver 2	1	2412	17.3	18.5	1.318	97.64	1.024	0.05	0.0149	0.020
		802.11b_1Mbps	Left Cheek	Receiver 2	6	2437	17.44	18.5	1.276	97.64	1.024	0.01	0.038	0.050
		802.11b_1Mbps	Left Tilted	Receiver 2	11	2462	18.14	18.5	1.086	97.64	1.024	-0.13	0.0077	0.009
	WLAN 5.2GHz	802.11a_6Mbps	Right Cheek	Receiver 1	48	5240	13.52	15	1.406	87.26	1.146	0.06	0.014	0.023
	WLAN 5.2GHz	802.11a_6Mbps	Right Tilted	Receiver 1	48	5240	13.52	15	1.406	87.26	1.146	0.01	0.021	0.034
	WLAN 5.2GHz	802.11a_6Mbps	Left Cheek	Receiver 1	48	5240	13.52	15	1.406	87.26	1.146	-0.08	0.21	0.338
#13	WLAN 5.2GHz	802.11a_6Mbps	Left Cheek	Receiver 1	36	5180	13.15	15	1.531	87.26	1.146	0.09	0.378	0.663
	WLAN 5.2GHz	802.11a_6Mbps	Left Tilted	Receiver 1	48	5240	13.52	15	1.406	87.26	1.146	0.06	0.085	0.137
	WLAN 5.2GHz	802.11a_6Mbps	Right Cheek	Receiver 2	48	5240	13.52	15	1.406	87.26	1.146	0	< 0.001	< 0.001
	WLAN 5.2GHz	802.11a_6Mbps	Right Tilted	Receiver 2	48	5240	13.52	15	1.406	87.26	1.146	0.1	0.000683	0.001
	WLAN 5.2GHz	802.11a_6Mbps	Right Tilted	Receiver 2	36	5180	13.15	15	1.531	87.26	1.146	0	< 0.001	< 0.001
	WLAN 5.2GHz	802.11a_6Mbps	Left Cheek	Receiver 2	48	5240	13.52	15	1.406	87.26	1.146	0	< 0.001	< 0.001
	WLAN 5.2GHz	802.11a_6Mbps	Left Tilted	Receiver 2	48	5240	13.52	15	1.406	87.26	1.146	0.1	3.23E-06	< 0.001
	WLAN 5.8GHz	802.11a_6Mbps	Right Cheek	Receiver 1	157	5785	13.35	14.3	1.245	87.26	1.146	0.032	0.060	0.086
	WLAN 5.8GHz	802.11a_6Mbps	Right Tilted	Receiver 1	157	5785	13.35	14.3	1.245	87.26	1.146	0.044	0.088	0.126
#14	WLAN 5.8GHz	802.11a_6Mbps	Left Cheek	Receiver 1	157	5785	13.35	14.3	1.245	87.26	1.146	0.024	0.880	1.255
	WLAN 5.8GHz	802.11a_6Mbps	Left Cheek	Receiver 1	149	5745	13.05	14.3	1.334	87.26	1.146	-0.1	0.664	1.015
	WLAN 5.8GHz	802.11a_6Mbps	Left Cheek	Receiver 1	165	5825	12.8	14.3	1.413	87.26	1.146	0.05	0.624	1.010
	WLAN 5.8GHz	802.11a_6Mbps	Left Tilted	Receiver 1	157	5785	13.35	14.3	1.245	87.26	1.146	0.1	0.337	0.481
	WLAN 5.8GHz	802.11a_6Mbps	Right Cheek	Receiver 2	157	5785	13.52	14.3	1.197	87.26	1.146	0	< 0.001	< 0.001
	WLAN 5.8GHz	802.11a_6Mbps	Right Cheek	Receiver 2	149	5745	13.05	14.3	1.334	87.26	1.146	0	< 0.001	< 0.001
	WLAN 5.8GHz	802.11a_6Mbps	Right Cheek	Receiver 2	165	5825	12.8	14.3	1.413	87.26	1.146	0	< 0.001	< 0.001
	WLAN 5.8GHz	802.11a_6Mbps	Right Tilted	Receiver 2	157	5785	13.52	14.3	1.197	87.26	1.146	0	< 0.001	< 0.001
	WLAN 5.8GHz	802.11a_6Mbps	Left Cheek	Receiver 2	157	5785	13.52	14.3	1.197	87.26	1.146	0	< 0.001	< 0.001
	WLAN 5.8GHz	802.11a_6Mbps	Left Tilted	Receiver 2	157	5785	13.52	14.3	1.197	87.26	1.146	0	< 0.001	< 0.001

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15.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (4 Tx slots)	Front	1	251	848.8	28.36	29	1.159	-0.06	0.500	0.579
#15	GSM850	GPRS (4 Tx slots)	Back	1	251	848.8	28.36	29	1.159	0.08	0.622	0.721
	GSM850	GPRS (4 Tx slots)	Back	1	128	824.2	28.03	29	1.250	0.09	0.551	0.689
	GSM850	GPRS (4 Tx slots)	Back	1	189	836.4	28.22	29	1.197	0.04	0.498	0.596
	GSM850	GPRS (4 Tx slots)	Left Side	1	251	848.8	28.36	29	1.159	0.0026	0.523	0.606
	GSM850	GPRS (4 Tx slots)	Bottom Side	1	251	848.8	28.36	29	1.159	-0.13	0.305	0.353
	GSM1900	GPRS (4 Tx slots)	Front	1	512	1850.2	24.91	25.5	1.146	-0.03	0.625	0.716
	GSM1900	GPRS (4 Tx slots)	Back	1	512	1850.2	24.91	25.5	1.146	-0.06	0.758	0.868
	GSM1900	GPRS (4 Tx slots)	Back	1	661	1880	24.8	25.5	1.175	-0.1	0.736	0.865
	GSM1900	GPRS (4 Tx slots)	Back	1	810	1909.8	24.7	25.5	1.202	-0.05	0.804	0.967
	GSM1900	GPRS (4 Tx slots)	Left Side	1	512	1850.2	24.91	25.5	1.146	-0.12	0.250	0.286
	GSM1900	GPRS (4 Tx slots)	Bottom Side	1	512	1850.2	24.91	25.5	1.146	0.08	0.783	0.897
	GSM1900	GPRS (4 Tx slots)	Bottom Side	1	661	1880	24.8	25.5	1.175	0.05	0.785	0.922
#16	GSM1900	GPRS (4 Tx slots)	Bottom Side	1	810	1909.8	24.7	25.5	1.202	0.06	0.821	<mark>0.987</mark>

Report No. : FA511301-03

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC12.2Kbps	Front	1	4233	846.6	23.76	24	1.057	-0.0036	0.313	0.331
	WCDMA Band V	RMC12.2Kbps	Back	1	4233	846.6	23.76	24	1.057	0.0073	0.375	0.396
#17	WCDMA Band V	RMC12.2Kbps	Back	1	4132	826.4	23.68	24	1.076	-0.0085	0.469	0.50 <mark>5</mark>
	WCDMA Band V	RMC12.2Kbps	Back	1	4182	836.4	23.69	24	1.074	0.0015	0.458	0.492
	WCDMA Band V	RMC12.2Kbps	Left Side	1	4233	846.6	23.76	24	1.057	0.1	0.370	0.391
	WCDMA Band V	RMC12.2Kbps	Bottom Side	1	4233	846.6	23.76	24	1.057	-0.04	0.187	0.198
	WCDMA Band IV	RMC12.2Kbps	Front	1	1312	1712.4	23.13	23.5	1.089	-0.02	0.708	0.771
	WCDMA Band IV	RMC12.2Kbps	Back	1	1312	1712.4	23.13	23.5	1.089	-0.08	0.716	0.780
	WCDMA Band IV	RMC12.2Kbps	Back	1	1413	1732.6	23.06	23.5	1.107	-0.13	0.754	0.834
#18	WCDMA Band IV	RMC12.2Kbps	Back	1	1513	1752.6	23.07	23.5	1.104	-0.12	0.803	0.887
	WCDMA Band IV	RMC12.2Kbps	Left Side	1	1312	1712.4	23.13	23.5	1.089	-0.11	0.263	0.286
	WCDMA Band IV	RMC12.2Kbps	Bottom Side	1	1312	1712.4	23.13	23.5	1.089	0.04	0.596	0.649
	WCDMA Band II	RMC12.2Kbps	Front	1	9538	1907.6	23.19	23.5	1.074	0.03	1.060	1.138
	WCDMA Band II	RMC12.2Kbps	Front	1	9262	1852.4	23.11	23.5	1.094	-0.02	0.873	0.955
	WCDMA Band II	RMC12.2Kbps	Front	1	9400	1880	23.14	23.5	1.086	0.03	0.933	1.014
	WCDMA Band II	RMC12.2Kbps	Back	1	9538	1907.6	23.19	23.5	1.074	-0.14	1.080	1.160
	WCDMA Band II	RMC12.2Kbps	Back	1	9262	1852.4	23.11	23.5	1.094	-0.18	1.030	1.127
	WCDMA Band II	RMC12.2Kbps	Back	1	9400	1880	23.14	23.5	1.086	-0.09	1.060	1.152
	WCDMA Band II	RMC12.2Kbps	Left Side	1	9538	1907.6	23.19	23.5	1.074	-0.11	0.316	0.339
#19	WCDMA Band II	RMC12.2Kbps	Bottom Side	1	9538	1907.6	23.19	23.5	1.074	0.12	1.100	1.181
	WCDMA Band II	RMC12.2Kbps	Bottom Side	1	9262	1852.4	23.11	23.5	1.094	0.03	1.020	1.116
	WCDMA Band II	RMC12.2Kbps	Bottom Side	1	9400	1880	23.14	23.5	1.086	0.13	1.040	1.130

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FCC SAR Test Report

<LTE SAR>

										A	Tona Ha	T	D	Management	Danadad
Plot No.	Band	BW (MHz)	Mode	RB Size	RB offset	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12	10M	QPSK	1	0	Front	1	23095	707.5	23.68	24	1.076	0.024	0.113	0.122
	LTE Band 12	10M	QPSK	25	0	Front	1	23095	707.5	22.61	23	1.094	-0.04	0.089	0.097
	LTE Band 12	10M	QPSK	1	0	Back	1	23095	707.5	23.68	24	1.076	-0.06	0.17	0.183
	LTE Band 12	10M	QPSK	1	0	Back	1	23060	704	23.51	24	1.119	-0.12	0.136	0.152
#20	LTE Band 12	10M	QPSK	1	0	Back	1	23130	711	23.57	24	1.104	-0.10	0.168	0.185
	LTE Band 12	10M	QPSK	25	0	Back	1	23095	707.5	22.61	23	1.094	0.02	0.142	0.155
	LTE Band 12	10M	QPSK	1	0	Left Side	1	23095	707.5	23.68	24	1.076	0.1	0.137	0.147
	LTE Band 12	10M	QPSK	25	0	Left Side	1	23095	707.5	22.61	23	1.094	-0.07	0.115	0.126
	LTE Band 12	10M	QPSK	1	0	Bottom Side	1	23095	707.5	23.68	24	1.076	0.04	0.039	0.042
	LTE Band 12	10M	QPSK	25	0	Bottom Side	1	23095	707.5	22.61	23	1.094	0.1	0.033	0.036
	LTE Band 17	10M	QPSK	1	0	Front	1	23790	710	23.6	24	1.096	0.02	0.123	0.135
	LTE Band 17	10M	QPSK	25	0	Front	1	23790	710	22.62	23	1.091	0.06	0.102	0.111
#21	LTE Band 17	10M	QPSK	1	0	Back	1	23790	710	23.6	24	1.096	-0.05	0.190	0.208
	LTE Band 17	10M	QPSK	1	0	Back	1	23780	709	23.39	24	1.151	0.00052	0.135	0.155
	LTE Band 17	10M	QPSK	1	0	Back	1	23800	711	23.5	24	1.122	0.06	0.167	0.187
	LTE Band 17	10M	QPSK	25	0	Back	1	23790	710	22.62	23	1.091	0.06	0.152	0.166
	LTE Band 17	10M	QPSK	1	0	Left Side	1	23790	710	23.6	24	1.096	0.04	0.148	0.162
	LTE Band 17	10M	QPSK	25	0	Left Side	1	23790	710	22.62	23	1.091	0.04	0.123	0.134
	LTE Band 17	10M	QPSK	1	0	Bottom Side	1	23790	710	23.6	24	1.096	0.11	0.040	0.044
	LTE Band 17	10M	QPSK	25	0	Bottom Side	1	23790	710	22.62	23	1.091	-0.11	0.032	0.035
	LTE Band 5	10M	QPSK	1	24	Front	1	20525	836.5	23.74	24	1.062	0.1	0.359	0.381
	LTE Band 5	10M	QPSK	25	0	Front	1	20525	836.5	22.6	23	1.096	-0.0085	0.287	0.315
	LTE Band 5	10M	QPSK	1	24	Back	1	20525	836.5	23.74	24	1.062	-0.04	0.406	0.431
#22	LTE Band 5	10M	QPSK	1	24	Back	1	20450	829	23.68	24	1.076	0.031	0.485	0.522
	LTE Band 5	10M	QPSK	1	24	Back	1	20600	844	23.47	24	1.130	-0.18	0.442	0.499
	LTE Band 5	10M	QPSK	25	0	Back	1	20525	836.5	22.6	23	1.096	0.01	0.332	0.364
	LTE Band 5	10M	QPSK	1	24	Left Side	1	20525	836.5	23.74	24	1.062	0.03	0.393	0.417
	LTE Band 5	10M	QPSK	25	0	Left Side	1	20525	836.5	22.6	23	1.096	-0.07	0.330	0.362
	LTE Band 5	10M	QPSK	1	24	Bottom Side	1	20525	836.5	23.74	24	1.062	-0.14	0.190	0.202
	LTE Band 5	10M	QPSK	25	0	Bottom Side	1	20525	836.5	22.6	23	1.096	-0.1	0.154	0.169
	LTE Band 4	20M	QPSK	1	0	Front	1	20175	1732.5	23.65	24	1.084	-0.19	0.834	0.904
	LTE Band 4	20M	QPSK	1	0	Front	1	20050	1720	23.36	24	1.159	-0.14	0.751	0.870
#23	LTE Band 4	20M	QPSK	1	0	Front	1	20300	1745	23.29	24	1.178	-0.09	0.872	1.027
	LTE Band 4	20M	QPSK	50	0	Front	1	20175	1732.5	22.42	23	1.143	-0.04	0.677	0.774
	LTE Band 4	20M	QPSK	100	0	Front	1	20175	1732.5	22.38	23	1.153	-0.01	0.694	0.800
	LTE Band 4	20M	QPSK	1	0	Back	1	20175	1732.5	23.65	24	1.084	-0.04	0.885	0.959
	LTE Band 4	20M	QPSK	1	0	Back	1	20050	1720	23.36	24	1.159	0.15	0.775	0.898
	LTE Band 4	20M	QPSK	1	0	Back	1	20300	1745	23.29	24	1.178	-0.0062	0.852	1.003
	LTE Band 4	20M	QPSK	50	0	Back	1	20175	1732.5	22.42	23	1.143	-0.19	0.626	0.715
	LTE Band 4	20M	QPSK	100	0	Back	1	20175	1732.5	22.38	23	1.153	-0.16	0.641	0.739
	LTE Band 4	20M	QPSK	1	0	Left Side	1	20175	1732.5	23.65	24	1.084	0.0092	0.294	0.319
	LTE Band 4	20M	QPSK	50	0	Left Side	1	20175	1732.5	22.42	23	1.143	0.02	0.249	0.285
	LTE Band 4	20M	QPSK	1	0	Bottom Side	1	20175	1732.5	23.65	24	1.084	0.1	0.743	0.805
	LTE Band 4	20M	QPSK	1	0	Bottom Side	1	20050	1720	23.36	24	1.159	0.1	0.682	0.790
	LTE Band 4	20M	QPSK	1	0	Bottom Side	1	20300	1745	23.29	24	1.178	0.02	0.766	0.902
	LTE Band 4	20M	QPSK	50	0	Bottom Side	1	20175	1732.5	22.42	23	1.143	0.1	0.599	0.685
	LTE Band 4	20M	QPSK	100	0	Bottom Side	1	20175	1732.5	22.38	23	1.153	0.09	0.591	0.682

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										Average	Tuno Un	Tune-up	Power	Moacured	Papartad
Plot	Band	BW	Mode	RB	RB	Test	Gap	Ch.	Freq.	Power	Tune-Up Limit	Scaling	Drift	Measured 1g SAR	Reported 1g SAR
No.		(MHz)		Size	offset	Position	(cm)		(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	1	18900	1880	22.98	23.5	1.127	0.02	0.964	1.087
	LTE Band 2	20M	QPSK	1	0	Front	1	18700	1860	22.77	23.5	1.183	-0.07	0.960	1.136
	LTE Band 2	20M	QPSK	1	0	Front	1	19100	1900	22.85	23.5	1.161	0.01	0.928	1.078
	LTE Band 2	20M	QPSK	50	0	Front	1	18900	1880	20.84	22.5	1.466	0.05	0.583	0.854
	LTE Band 2	20M	QPSK	50	0	Front	1	18700	1860	20.77	22.5	1.489	0.0039	0.600	0.894
	LTE Band 2	20M	QPSK	50	0	Front	1	19100	1900	20.74	22.5	1.500	-0.05	0.597	0.895
	LTE Band 2	20M	QPSK	100	0	Front	1	18900	1880	20.81	22.5	1.476	-0.07	0.577	0.851
#24	LTE Band 2	20M	QPSK	1	0	Back	1	18900	1880	22.98	23.5	1.127	-0.13	1.170	1.319
	LTE Band 2	20M	QPSK	1	0	Back	1	18700	1860	22.77	23.5	1.183	-0.06	1.100	1.301
	LTE Band 2	20M	QPSK	1	0	Back	1	19100	1900	22.85	23.5	1.161	-0.07	1.130	1.312
	LTE Band 2	20M	QPSK	50	0	Back	1	18900	1880	20.84	22.5	1.466	-0.1	0.713	1.045
	LTE Band 2	20M	QPSK	50	0	Back	1	18700	1860	20.77	22.5	1.489	-0.13	0.677	1.008
	LTE Band 2	20M	QPSK	50	0	Back	1	19100	1900	20.74	22.5	1.500	-0.02	0.699	1.048
	LTE Band 2	20M	QPSK	100	0	Back	1	18900	1880	20.81	22.5	1.476	-0.1	0.692	1.021
	LTE Band 2	20M	QPSK	1	0	Left Side	1	18900	1880	22.98	23.5	1.127	-0.03	0.305	0.344
	LTE Band 2	20M	QPSK	50	0	Left Side	1	18900	1880	20.84	22.5	1.466	-0.04	0.227	0.333
	LTE Band 2	20M	QPSK	1	0	Bottom Side	1	18900	1880	22.98	23.5	1.127	-0.06	0.977	1.101
	LTE Band 2	20M	QPSK	1	0	Bottom Side	1	18700	1860	22.77	23.5	1.183	0.02	0.971	1.149
	LTE Band 2	20M	QPSK	1	0	Bottom Side	1	19100	1900	22.85	23.5	1.161	0.04	1.040	1.208
	LTE Band 2	20M	QPSK	50	0	Bottom Side	1	18900	1880	20.84	22.5	1.466	0.04	0.670	0.982
	LTE Band 2	20M	QPSK	50	0	Bottom Side	1	18700	1860	20.77	22.5	1.489	0.0064	0.636	0.947
	LTE Band 2	20M	QPSK	50	0	Bottom Side	1	19100	1900	20.74	22.5	1.500	-0.02	0.684	1.026
	LTE Band 2	20M	QPSK	100	0	Bottom Side	1	18900	1880	20.81	22.5	1.476	-0.06	0.665	0.981
	LTE Band 7	20M	QPSK	1	0	Front	1	21100	2535	21.28	21.5	1.052	0.11	0.509	0.535
	LTE Band 7	20M	QPSK	50	0	Front	1	21100	2535	20.1	20.5	1.096	-0.1	0.392	0.430
	LTE Band 7	20M	QPSK	1	0	Back	1	21100	2535	21.28	21.5	1.052	-0.01	1.050	1.105
	LTE Band 7	20M	QPSK	1	0	Back	1	20850	2510	21.02	21.5	1.117	0.07	0.895	1.000
	LTE Band 7	20M	QPSK	1	0	Back	1	21350	2560	21.08	21.5	1.102	0.1	1.270	1.399
	LTE Band 7	20M	QPSK	50	0	Back	1	21100	2535	20.1	20.5	1.096	-0.03	0.845	0.927
	LTE Band 7	20M	QPSK	50	0	Back	1	20850	2510	20	20.5	1.122	0.06	0.785	0.881
	LTE Band 7	20M	QPSK	50	0	Back	1	21350	2560	20.08	20.5	1.102	0.01	1.060	1.168
	LTE Band 7	20M	QPSK	100	0	Back	1	21100	2535	20.02	20.5	1.117	0.18	0.896	1.001
	LTE Band 7	20M	QPSK	1	0	Left Side	1	21100	2535	21.28	21.5	1.052	-0.11	0.070	0.074
	LTE Band 7	20M	QPSK	50	0	Left Side	1	21100	2535	20.1	20.5	1.096	-0.08	0.054	0.059
	LTE Band 7	20M	QPSK		0	Bottom Side	1	21100	2535	21.28	21.5	1.052	0.01	1.050	1.105
	LTE Band 7		QPSK	1	0	Bottom Side	1	20850	2510	21.02	21.5	1.117	0.09	0.859	0.959
#25	LTE Band 7	20M	QPSK	1	0	Bottom Side	1	21350	2560	21.08	21.5	1.102	0.03	1.290	1.421
	LTE Band 7	20M	QPSK	50	0	Bottom Side	1	21100	2535	20.1	20.5	1.096	0.06	0.877	0.962
	LTE Band 7	20M	QPSK	50	0	Bottom Side	1	20850	2510	20	20.5	1.122	0.02	0.727	0.816
	LTE Band 7	20M	QPSK	50	0	Bottom Side	1	21350	2560	20.08	20.5	1.102	0.08	1.070	1.179
	LTE Band 7	20M	QPSK		0	Bottom Side	1	21100	2535	20.02	20.5	1.117	0.048	0.898	1.003
	LIL Dalla 1	ZOIVI	ai Oil	100	J	Dottom Gide		_ 1100	2000	20.02	20.0	1.117	0.070	0.000	1.000

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<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	_	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b_1Mbps	Front	1	11	2462	18.14	18.5	1.086	97.64	1.024	-0.027	0.214	0.238
#26	WLAN 2.4GHz	802.11b_1Mbps	Back	1	11	2462	18.14	18.5	1.086	97.64	1.024	0.039	0.457	<mark>0.508</mark>
	WLAN 2.4GHz	802.11b_1Mbps	Back	1	1	2412	17.3	18.5	1.318	97.64	1.024	0.1	0.223	0.301
	WLAN 2.4GHz	802.11b_1Mbps	Back	1	6	2437	17.44	18.5	1.276	97.64	1.024	0.18	0.370	0.484
	WLAN 2.4GHz	802.11b_1Mbps	Right Side	1	11	2462	18.14	18.5	1.086	97.64	1.024	-0.17	0.171	0.190
	WLAN 2.4GHz	802.11b_1Mbps	Top Side	1	11	2462	18.14	18.5	1.086	97.64	1.024	-0.04	0.128	0.142
	WLAN 5.8GHz	802.11a_6Mbps	Front	1	157	5785	13.35	14.3	1.245	87.26	1.146	0.1	0.089	0.127
	WLAN 5.8GHz	802.11a_6Mbps	Back	1	157	5785	13.35	14.3	1.245	87.26	1.146	-0.03	0.109	0.155
	WLAN 5.8GHz	802.11a_6Mbps	Back	1	149	5745	13.05	14.3	1.334	87.26	1.146	0.17	0.096	0.147
	WLAN 5.8GHz	802.11a_6Mbps	Back	1	165	5825	12.8	14.3	1.413	87.26	1.146	-0.16	0.081	0.131
#27	WLAN 5.8GHz	802.11a_6Mbps	Right Side	1	157	5785	13.35	14.3	1.245	87.26	1.146	-0.09	0.198	0.282
	WLAN 5.8GHz	802.11a_6Mbps	Right Side	1	149	5745	13.05	14.3	1.334	87.26	1.146	80.0	0.162	0.248
	WLAN 5.8GHz	802.11a_6Mbps	Right Side	1	165	5825	12.8	14.3	1.413	87.26	1.146	80.0	0.132	0.214
	WLAN 5.8GHz	802.11a_6Mbps	Top Side	1	157	5785	13.35	14.3	1.245	87.26	1.146	-0.09	0.066	0.094

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15.3 Extremity SAR

<LTE SAR>

Plot No.	Band	BW (MHz)	Mode	RB Size	RB offset	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Back	0	18900	1880	22.98	23.5	1.127	-0.04	2.260	2.547
#28	LTE Band 2	20M	QPSK	1	0	Back	0	18700	1860	22.77	23.5	1.183	-0.06	2.220	<mark>2.626</mark>
	LTE Band 2	20M	QPSK	1	0	Back	0	19100	1900	22.85	23.5	1.161	-0.15	2.180	2.532
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0	19100	1900	22.85	23.5	1.161	0.16	2.250	2.613
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0	18900	1880	22.98	23.5	1.127	0.07	2.290	2.581
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0	18700	1860	22.77	23.5	1.183	0.09	2.110	2.496
	LTE Band 7	20M	QPSK	1	0	Back	0	21350	2560	21.08	21.5	1.102	0.1	2.300	2.534
	LTE Band 7	20M	QPSK	1	0	Back	0	20850	2510	21.02	21.5	1.117	0.04	2.200	2.457
	LTE Band 7	20M	QPSK	1	0	Back	0	21100	2535	21.28	21.5	1.052	0.02	2.280	2.398
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0	21100	2535	21.28	21.5	1.052	0.05	3.120	3.282
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0	20850	2510	21.02	21.5	1.117	0.01	2.770	3.094
#29	LTE Band 7	20M	QPSK	1	0	Bottom Side	0	21350	2560	21.08	21.5	1.102	0.02	3.430	3.778

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15.4 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (4 Tx slots)	Front	1	251	848.8	28.36	29	1.159	-0.06	0.500	0.579
#30	GSM850	GPRS (4 Tx slots)	Back	1	251	848.8	28.36	29	1.159	0.08	0.622	<mark>0.721</mark>
	GSM850	GPRS (4 Tx slots)	Back	1	128	824.2	28.03	29	1.250	0.09	0.551	0.689
	GSM850	GPRS (4 Tx slots)	Back	1	189	836.4	28.22	29	1.197	0.04	0.498	0.596
	GSM1900	GPRS (4 Tx slots)	Front	1	512	1850.2	24.91	25.5	1.146	-0.03	0.625	0.716
	GSM1900	GPRS (4 Tx slots)	Back	1	512	1850.2	24.91	25.5	1.146	-0.06	0.758	0.868
	GSM1900	GPRS (4 Tx slots)	Back	1	661	1880	24.8	25.5	1.175	-0.1	0.736	0.865
#31	GSM1900	GPRS (4 Tx slots)	Back	1	810	1909.8	24.7	25.5	1.202	-0.05	0.804	0.96 <mark>7</mark>

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC12.2Kbps	Front	1	4233	846.6	23.76	24	1.057	-0.0036	0.313	0.331
	WCDMA Band V	RMC12.2Kbps	Back	1	4233	846.6	23.76	24	1.057	0.0073	0.375	0.396
#32	WCDMA Band V	RMC12.2Kbps	Back	1	4132	826.4	23.68	24	1.076	-0.0085	0.469	0.505
	WCDMA Band V	RMC12.2Kbps	Back	1	4182	836.4	23.69	24	1.074	0.0015	0.458	0.492
	WCDMA Band IV	RMC12.2Kbps	Front	1	1312	1712.4	23.13	23.5	1.089	-0.02	0.708	0.771
	WCDMA Band IV	RMC12.2Kbps	Back	1	1312	1712.4	23.13	23.5	1.089	-0.08	0.716	0.780
	WCDMA Band IV	RMC12.2Kbps	Back	1	1413	1732.6	23.06	23.5	1.107	-0.13	0.754	0.834
#33	WCDMA Band IV	RMC12.2Kbps	Back	1	1513	1752.6	23.07	23.5	1.104	-0.12	0.803	0.887
	WCDMA Band II	RMC12.2Kbps	Front	1	9538	1907.6	23.19	23.5	1.074	0.03	1.060	1.138
	WCDMA Band II	RMC12.2Kbps	Front	1	9262	1852.4	23.11	23.5	1.094	-0.02	0.873	0.955
	WCDMA Band II	RMC12.2Kbps	Front	1	9400	1880	23.14	23.5	1.086	0.03	0.933	1.014
#34	WCDMA Band II	RMC12.2Kbps	Back	1	9538	1907.6	23.19	23.5	1.074	-0.14	1.080	1.160
	WCDMA Band II	RMC12.2Kbps	Back	1	9262	1852.4	23.11	23.5	1.094	-0.18	1.030	1.127
	WCDMA Band II	RMC12.2Kbps	Back	1	9400	1880	23.14	23.5	1.086	-0.09	1.060	1.152

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<LTE SAR>

										A.,	Tuna IIIa	Tuna	Dayyan	Manaurad	Deported
Plot	Band	BW	Mode	RB	RB	Test	Gap	Ch.	Freq.	Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	1g SAR
No.	23.13	(MHz)		Size	offset	Position	(cm)		(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 12	10M	QPSK	1	0	Front	1	23095	707.5	23.68	24	1.076	0.024	0.113	0.122
	LTE Band 12	10M	QPSK	25	0	Front	1	23095	707.5	22.61	23	1.094	-0.04	0.089	0.097
	LTE Band 12	10M	QPSK	1	0	Back	1	23095	707.5	23.68	24	1.076	-0.06	0.17	0.183
	LTE Band 12	10M	QPSK	25	0	Back	1	23095	707.5	22.61	23	1.094	0.02	0.142	0.155
	LTE Band 12	10M	QPSK	1	0	Back	1	23060	704	23.51	24	1.119	-0.12	0.136	0.152
#35	LTE Band 12	10M	QPSK	1	0	Back	1	23130	711	23.57	24	1.104	-0.10	0.168	<mark>0.185</mark>
	LTE Band 17	10M	QPSK	1	0	Front	1	23790	710	23.6	24	1.096	0.02	0.123	0.135
	LTE Band 17	10M	QPSK	25	0	Front	1	23790	710	22.62	23	1.091	0.06	0.102	0.111
#36	LTE Band 17	10M	QPSK	1	0	Back	1	23790	710	23.6	24	1.096	-0.05	0.190	<mark>0.208</mark>
	LTE Band 17	10M	QPSK	25	0	Back	1	23790	710	22.62	23	1.091	0.06	0.152	0.166
	LTE Band 17	10M	QPSK	1	0	Back	1	23780	709	23.39	24	1.151	0.00052	0.135	0.155
	LTE Band 17	10M	QPSK	1	0	Back	1	23800	711	23.5	24	1.122	0.06	0.167	0.187
	LTE Band 5	10M	QPSK	1	24	Front	1	20525	836.5	23.74	24	1.062	0.1	0.359	0.381
	LTE Band 5	10M	QPSK	25	0	Front	1	20525	836.5	22.6	23	1.096	-0.0085	0.287	0.315
	LTE Band 5	10M	QPSK	1	24	Back	1	20525	836.5	23.74	24	1.062	-0.04	0.406	0.431
	LTE Band 5	10M	QPSK	25	0	Back	1	20525	836.5	22.6	23	1.096	0.01	0.332	0.364
#37	LTE Band 5	10M	QPSK	1	24	Back	1	20450	829	23.68	24	1.076	0.031	0.485	<mark>0.522</mark>
	LTE Band 5	10M	QPSK	1	24	Back	1	20600	844	23.47	24	1.130	-0.18	0.442	0.499
	LTE Band 4	20M	QPSK	1	0	Front	1	20175	1732.5	23.65	24	1.084	-0.19	0.834	0.904
	LTE Band 4	20M	QPSK	1	0	Front	1	20050	1720	23.36	24	1.159	-0.14	0.751	0.870
#38	LTE Band 4	20M	QPSK	1	0	Front	1	20300	1745	23.29	24	1.178	-0.09	0.872	1.027
	LTE Band 4	20M	QPSK	50	0	Front	1	20175	1732.5	22.42	23	1.143	-0.04	0.677	0.774
	LTE Band 4	20M	QPSK	100	0	Front	1	20175	1732.5	22.38	23	1.153	-0.01	0.694	0.800
	LTE Band 4	20M	QPSK	1	0	Back	1	20175	1732.5	23.65	24	1.084	-0.04	0.885	0.959
	LTE Band 4	20M	QPSK	1	0	Back	1	20050	1720	23.36	24	1.159	0.15	0.775	0.898
	LTE Band 4	20M	QPSK	1	0	Back	1	20300	1745	23.29	24	1.178	-0.0062	0.852	1.003
	LTE Band 4	20M	QPSK	50	0	Back	1	20175	1732.5	22.42	23	1.143	-0.19	0.626	0.715
	LTE Band 4	20M	QPSK	100	0	Back	1	20175	1732.5	22.38	23	1.153	-0.16	0.641	0.739

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													_	_		
Plot	Band	BW	Mode	RB	RB	Test	Gap	Headset	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
No.	Dana	(MHz)	Wiodc	Size	offset	Position	(cm)	Ticausci	OII.	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	1	-	18900	1880	22.98	23.5	1.127	0.02	0.964	1.087
	LTE Band 2	20M	QPSK	1	0	Front	1	-	18700	1860	22.77	23.5	1.183	-0.07	0.960	1.136
	LTE Band 2	20M	QPSK	1	0	Front	1	-	19100	1900	22.85	23.5	1.161	0.01	0.928	1.078
	LTE Band 2	20M	QPSK	50	0	Front	1	-	18900	1880	20.84	22.5	1.466	0.05	0.583	0.854
	LTE Band 2	20M	QPSK	50	0	Front	1	-	18700	1860	20.77	22.5	1.489	0.0039	0.600	0.894
	LTE Band 2	20M	QPSK	50	0	Front	1	-	19100	1900	20.74	22.5	1.500	-0.05	0.597	0.895
	LTE Band 2	20M	QPSK	100	0	Front	1	-	18900	1880	20.81	22.5	1.476	-0.07	0.577	0.851
	LTE Band 2	20M	QPSK	1	0	Back	1	-	18900	1880	22.98	23.5	1.127	-0.13	1.170	1.319
	LTE Band 2	20M	QPSK	1	0	Back	1	-	18700	1860	22.77	23.5	1.183	-0.06	1.100	1.301
	LTE Band 2	20M	QPSK	1	0	Back	1	-	19100	1900	22.85	23.5	1.161	-0.07	1.130	1.312
	LTE Band 2	20M	QPSK	1	0	Back	1	Headset 1	18900	1880	22.98	23.5	1.127	-0.04	1.120	1.262
	LTE Band 2	20M	QPSK	1	0	Back	1	Headset 1	18700	1860	22.77	23.5	1.183	-0.14	1.060	1.254
#39	LTE Band 2	20M	QPSK	1	0	Back	1	Headset 1	19100	1900	22.85	23.5	1.161	-0.13	1.160	1.347
	LTE Band 2	20M	QPSK	1	0	Back	1	Headset 2	18900	1880	22.98	23.5	1.127	0.03	1.150	1.296
	LTE Band 2	20M	QPSK	1	0	Back	1	Headset 2	18700	1860	22.77	23.5	1.183	-0.024	1.130	1.337
	LTE Band 2	20M	QPSK	1	0	Back	1	Headset 2	19100	1900	22.85	23.5	1.161	-0.19	1.150	1.336
	LTE Band 2	20M	QPSK	50	0	Back	1	-	18900	1880	20.84	22.5	1.466	-0.1	0.713	1.045
	LTE Band 2	20M	QPSK	50	0	Back	1	-	18700	1860	20.77	22.5	1.489	-0.13	0.677	1.008
	LTE Band 2	20M	QPSK	50	0	Back	1	-	19100	1900	20.74	22.5	1.500	-0.02	0.699	1.048
	LTE Band 2	20M	QPSK	100	0	Back	1	-	18900	1880	20.81	22.5	1.476	-0.1	0.692	1.021
	LTE Band 7	20M	QPSK	1	0	Front	1	-	21100	2535	21.28	21.5	1.052	0.11	0.509	0.535
	LTE Band 7	20M	QPSK	50	0	Front	1	-	21100	2535	20.1	20.5	1.096	-0.1	0.392	0.430
	LTE Band 7	20M	QPSK	1	0	Back	1	-	21100	2535	21.28	21.5	1.052	-0.01	1.050	1.105
	LTE Band 7	20M	QPSK	1	0	Back	1	-	20850	2510	21.02	21.5	1.117	0.07	0.895	1.000
#40	LTE Band 7	20M	QPSK	1	0	Back	1	-	21350	2560	21.08	21.5	1.102	0.10	1.270	1.399
	LTE Band 7	20M	QPSK	1	0	Back	1	Headset 1	21350	2560	21.08	21.5	1.102	0.06	1.260	1.388
	LTE Band 7	20M	QPSK	1	0	Back	1	Headset 1	20850	2510	21.02	21.5	1.117	0.09	0.928	1.036
	LTE Band 7	20M	QPSK	1	0	Back	1	Headset 1	21100	2535	21.28	21.5	1.052	-0.09	1.090	1.147
	LTE Band 7	20M	QPSK	1	0	Back	1	Headset 2	21350	2560	21.08	21.5	1.102	-0.035	1.170	1.289
	LTE Band 7	20M	QPSK	1	0	Back	1	Headset 2	20850	2510	21.02	21.5	1.117	-0.074	0.886	0.990
	LTE Band 7	20M	QPSK	1	0	Back	1	Headset 2	21100	2535	21.28	21.5	1.052	-0.041	0.994	1.046
	LTE Band 7	20M	QPSK	50	0	Back	1	-	21100	2535	20.1	20.5	1.096	-0.03	0.845	0.927
	LTE Band 7	20M	QPSK	50	0	Back	1	-	20850	2510	20	20.5	1.122	0.06	0.785	0.881
	LTE Band 7	20M	QPSK	50	0	Back	1	-	21350	2560	20.08	20.5	1.102	0.01	1.060	1.168
	LTE Band 7	20M	QPSK	100	0	Back	1	-	21100	2535	20.02	20.5	1.117	0.18	0.896	1.001

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<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Dowor	Tune-Up Limit (dBm)		Cyclo	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b_1Mbps	Front	1	11	2462	18.14	18.5	1.086	97.64	1.024	-0.027	0.214	0.238
#41	WLAN 2.4GHz	802.11b_1Mbps	Back	1	11	2462	18.14	18.5	1.086	97.64	1.024	0.039	0.457	0.508
	WLAN 2.4GHz	802.11b_1Mbps	Back	1	1	2412	17.3	18.5	1.318	97.64	1.024	0.1	0.223	0.301
	WLAN 2.4GHz	802.11b_1Mbps	Back	1	6	2437	17.44	18.5	1.276	97.64	1.024	0.18	0.370	0.484
	WLAN 5.2GHz	802.11a_6Mbps	Front	1	48	5240	13.52	15	1.406	87.26	1.146	-0.064	0.026	0.042
#42	WLAN 5.2GHz	802.11a_6Mbps	Back	1	48	5240	13.52	15	1.406	87.26	1.146	-0.042	0.040	0.064
	WLAN 5.2GHz	802.11a_6Mbps	Back	1	36	5180	13.15	15	1.531	87.26	1.146	0.08	0.035	0.061
	WLAN 5.8GHz	802.11a_6Mbps	Front	1	157	5785	13.35	14.3	1.245	87.26	1.146	0.1	0.089	0.127
#43	WLAN 5.8GHz	802.11a_6Mbps	Back	1	157	5785	13.35	14.3	1.245	87.26	1.146	-0.03	0.109	0.155
	WLAN 5.8GHz	802.11a_6Mbps	Back	1	149	5745	13.05	14.3	1.334	87.26	1.146	0.17	0.096	0.147
	WLAN 5.8GHz	802.11a_6Mbps	Back	1	165	5825	12.8	14.3	1.413	87.26	1.146	-0.16	0.081	0.131

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15.5 Repeated SAR Measurement

General Note:

1. Per KDB 865664 D01v01r03, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.

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- 2. Per KDB 865664 D01v01r03, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. Per KDB 865664 D01v01r03, 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.

<1g Repeated SAR>

No.	Band	Mode	Test Position	Receiver Enabled	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cycle		Drift	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA Band IV	RMC12.2Kbps	Left Cheek	Receiver 2	ON	1413	1732.6	16.85	17.5	1.161	-	-	-0.02	0.922	1	1.071
2nd	WCDMA Band IV	RMC12.2Kbps	Left Cheek	Receiver 2	ON	1413	1732.6	16.85	17.5	1.161	-	-	-0.05	0.916	1.007	1.064
1st	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	Receiver 1	-	6	2437	17.44	18.5	1.276	97.64	1.024	0.1	1.060	1	1.385
2nd	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	Receiver 1	-	6	2437	17.44	18.5	1.276	97.64	1.024	-0.02	1.050	1.010	1.372
1st	WLAN 5.8GHz	802.11a 6Mbps	Left Cheek	Receiver 1	-	157	5785	13.35	14.3	1.245	87.26	1.146	0.024	0.880	1	1.255
2nd	WLAN 5.8GHz	802.11a 6Mbps	Left Cheek	Receiver 1	-	157	5785	13.35	14.3	1.245	87.26	1.146	0.013	0.878	1.002	1.252

No.	Band	BW (MHz)	Mode	RB Size	RB offset	Test Position	Receiver Enabled		Gap (cm)	(:n	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 12	10M	QPSK	1	0	Left Cheek	Receiver 2	OFF	-	23130	711	23.57	24	1.104	0.04	0.901	1	0.995
2nd	LTE Band 12	10M	QPSK	1	0	Left Cheek	Receiver 2	OFF	-	23130	711	23.57	24	1.104	0.05	0.898	1.003	0.991
1st	LTE Band 5	10M	QPSK	50	0	Left Cheek	Receiver 2	ON	-	20525	836.5	22.02	23	1.253	-0.0067	0.953	1	1.194
2nd	LTE Band 5	10M	QPSK	50	0	Left Cheek	Receiver 2	ON	-	20525	836.5	22.02	23	1.253	-0.0025	0.951	1.002	1.192
1st	LTE Band 2	20M	QPSK	1	0	Back	-	-	1	18900	1880	22.98	23.5	1.127	-0.13	1.170	1	1.319
2nd	LTE Band 2	20M	QPSK	1	0	Back	-	-	1	18900	1880	22.98	23.5	1.127	-0.01	1.070	1.093	1.206
1st	LTE Band 7	20M	QPSK	1	0	Bottom Side	-	-	1	21350	2560	21.08	21.5	1.102	0.03	1.290	1	1.421
2nd	LTE Band 7	20M	QPSK	1	0	Bottom Side	=	=	1	21350	2560	21.08	21.5	1.102	0.11	1.270	1.016	1.399

<10g Repeated SAR>

No.	Band	BW (MHz)	Mode	RB Size	RB offset	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	LTE Band 2	20M	QPSK	1	0	Bottom Side	0	18900	1880	22.98	23.5	1.127	0.07	2.290	1	2.581
2nd	LTE Band 2	20M	QPSK	1	0	Bottom Side	0	18900	1880	22.98	23.5	1.127	0.1	2.250	1.018	2.536
1st	LTE Band 7	20M	QPSK	1	0	Bottom Side	0	21350	2560	21.08	21.5	1.102	0.02	3.430	1	3.778
2nd	LTE Band 7	20M	QPSK	1	0	Bottom Side	0	21350	2560	21.08	21.5	1.102	0.02	3.380	1.015	3.723

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16. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Note
1.	GSM(voice) + WLAN 2.4GHz(data)	Yes	Yes		
2.	WCDMA(voice) + WLAN 2.4GHz(data)	Yes	Yes		
3.	LTE(voice) + WLAN 2.4GHz(data)	Yes	Yes		
4.	GSM(voice) + WLAN 5GHz(data)	Yes	Yes		
5.	WCDMA(voice) + WLAN 5GHz(data)	Yes	Yes		
6.	LTE(voice) + WLAN 5GHz(data)	Yes	Yes		
7.	GSM(voice) + Bluetooth(data)	Yes	Yes		
8.	WCDMA((voice) + Bluetooth(data)	Yes	Yes		
9.	LTE(voice) + Bluetooth(data)	Yes	Yes		
10.	GPRS/EDGE(data) + WLAN 2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
11.	WCDMA(data) + WLAN 2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
12.	LTE(data) + WLAN 2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
13.	GPRS/EDGE(data) + WLAN 5.2GHz(data)	Yes	Yes		WiFi Direct (GC)
14.	WCDMA(data) + WLAN 5.2GHz(data)	Yes	Yes		WiFi Direct (GC)
15.	LTE(data) + WLAN 5.2GHz(data)	Yes	Yes		WiFi Direct (GC)
16.	GPRS/EDGE(data) + WLAN 5.8GHz(data)	Yes	Yes	Yes	WiFi Direct (GC/GO)
17.	WCDMA(data) + WLAN 5.8GHz(data)	Yes	Yes	Yes	WiFi Direct (GC/GO)
18.	LTE(data) + WLAN 5.8GHz(data)	Yes	Yes	Yes	WiFi Direct (GC/GO)
19.	GPRS/EDGE(data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering
20.	WCDMA(data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering
21.	LTE(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering

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General Note:

- This device supported VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. 3rd party VoIP) and LTE Supports VoLTE operation. 1.
- This device 2.4 GHz / 5.8GHz WLAN supports hotspot and WiFi Direct (GC / GO) operation, and 5.2GHz WLAN supports WiFi 2.
- 3. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
- EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate 4. simultaneously at any moment.
- EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5. 5GHz WLAN will not operate simultaneously at any moment.
- 6. The reported SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v05r02, simultaneous transmission SAR is compliant if,

 - i) Scalar SAR summation < 1.6W/kg.
 ii) SPLSR = (SAR₁ + SAR₂)^{1.5} / (min. separation distance, mm), and the peak separation distance is determined from the square root of $[(x_1-x_2)^2+(y_1-y_2)^2+(z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - v) The SPLSR calculated results please refer to section 15.4.
- For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v05r02 based on the formula below.
 - i) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]:[\(\int f(GHz)/x \)] W/kg for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
 - ii) When the minimum separation distance is < 5mm, the distance is used 5mm to determine SAR test exclusion.
 - iii) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.

Bluetooth	Exposure Position	Head	Hotspot	Body worn
Max Power	Test separation (mm)	0	10	10
6.0 dBm	Estimated SAR (W/kg)	0.168	0.084	0.084

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16.1 Head Exposure Conditions

<Receiver1 configuration>:

			WWAN PCE	WLAN DTS			
10000	N.B.	F 5	Max.	Max.	Summed	001.00	Case
VVVVA	N Band	Exposure Position	WWAN SAR	WLAN SAR	SAR	SPLSR	No
			(W/kg)	(W/kg)	(W/kg)		
		Right Cheek	0.455	0.325	0.78		
		Right Tilted	0.234	0.235	0.47		
	GSM850	Left Cheek	0.481	1.385	1.87	0.04	#1
		Left Tilted	0.279	0.545	0.82		
GSM		Right Cheek	0.239	0.325	0.56		
		Right Tilted	0.127	0.235	0.36		
	GSM1900	Left Cheek	0.270	1.385	1.66	0.03	#2
		Left Tilted	0.197	0.545	0.74		
		Right Cheek	0.331	0.325	0.66		
		Right Tilted	0.148	0.235	0.38		
	Band V	Left Cheek	0.192	1.385	1.58		
		Left Tilted	0.175	0.545	0.72		
		Right Cheek	0.278	0.325	0.60		
		Right Tilted	0.157	0.235	0.39		
WCDMA	Band IV	Left Cheek	0.356	1.385	1.74	0.03	#3
		Left Tilted	0.232	0.545	0.78		
		Right Cheek	0.251	0.325	0.58		
		Right Tilted	0.126	0.235	0.36		
	Band II	Left Cheek	0.304	1.385	1.69	0.03	#4
		Left Tilted	0.183	0.545	0.73		
		Right Cheek	0.067	0.325	0.39		
		Right Tilted	0.040	0.235	0.28		
	Band 12	Left Cheek	0.081	1.385	1.47		
		Left Tilted	0.050	0.545	0.60		
		Right Cheek	0.079	0.325	0.40		
		Right Tilted	0.046	0.235	0.28		
	Band 17	Left Cheek	0.089	1.385	1.47		
		Left Tilted	0.057	0.545	0.60		
		Right Cheek	0.332	0.325	0.66		
		Right Tilted	0.168	0.235	0.40		
	Band 5	Left Cheek	0.285	1.385	1.67	0.04	#5
		Left Tilted	0.186	0.545	0.73		_
LTE		Right Cheek	0.387	0.325	0.71		
	D. 14	Right Tilted	0.188	0.235	0.42		
	Band 4	Left Cheek	0.339	1.385	1.72	0.03	#6
		Left Tilted	0.292	0.545	0.84		
		Right Cheek	0.326	0.325	0.65		
	D. 10	Right Tilted	0.159	0.235	0.39		
	Band 2	Left Cheek	0.367	1.385	1.75	0.03	#7
		Left Tilted	0.274	0.545	0.82		
		Right Cheek	0.014	0.325	0.34		
		Right Tilted	0.007	0.235	0.24		
	Band 7	Left Cheek	0.040	1.385	1.43		
		Left Tilted	0.007	0.545	0.55		

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			WWAN PCE	WLAN NII			
١٨٨٨٨	N Band	Exposure Position	Max.	Max.	Summed SAR	SPLSR	Case
V V V V A	III Danu	Exposure Position	WWAN SAR	WLAN SAR	(W/kg)	SFLSK	No
			(W/kg)	(W/kg)	(w/kg)		
		Right Cheek	0.455	0.086	0.54		
	GSM850	Right Tilted	0.234	0.126	0.36		
	GSIVIOSO	Left Cheek	0.481	1.255	1.74	0.04	#8
GSM		Left Tilted	0.279	0.481	0.76		
GSIVI		Right Cheek	0.239	0.086	0.33		
	GSM1900	Right Tilted	0.127	0.126	0.25		
	G3W1900	Left Cheek	0.270	1.255	1.53		
		Left Tilted	0.197	0.481	0.68		
		Right Cheek	0.331	0.086	0.42		
	Band V	Right Tilted	0.148	0.126	0.27		
	Dana v	Left Cheek	0.192	1.255	1.45		
		Left Tilted	0.175	0.481	0.66		
		Right Cheek	0.278	0.086	0.36		
WCDMA	Band IV	Right Tilted	0.157	0.126	0.28		
WODIVIA	Dana IV	Left Cheek	0.356	1.255	1.61	0.02	#9
		Left Tilted	0.232	0.481	0.71		
		Right Cheek	0.251	0.086	0.34		
	Band II	Right Tilted	0.126	0.126	0.25		
	Bana n	Left Cheek	0.304	1.255	1.56		
		Left Tilted	0.183	0.481	0.66		
		Right Cheek	0.067	0.086	0.15		
	Band 12	Right Tilted	0.040	0.126	0.17		
	Dana 12	Left Cheek	0.081	1.255	1.34		
		Left Tilted	0.050	0.481	0.53		
		Right Cheek	0.079	0.086	0.17		
	Band 17	Right Tilted	0.046	0.126	0.17		
	Bana 17	Left Cheek	0.089	1.255	1.34		
		Left Tilted	0.057	0.481	0.54		
		Right Cheek	0.332	0.086	0.42		
	Band 5	Right Tilted	0.168	0.126	0.29		
	Banas	Left Cheek	0.285	1.255	1.54		
LTE		Left Tilted	0.186	0.481	0.67		
		Right Cheek	0.387	0.086	0.47		
	Band 4	Right Tilted	0.188	0.126	0.31		
		Left Cheek	0.339	1.255	1.59		
		Left Tilted	0.292	0.481	0.77		
		Right Cheek	0.326	0.086	0.41		
	Band 2	Right Tilted	0.159	0.126	0.29		
		Left Cheek	0.367	1.255	1.62	0.03	#10
		Left Tilted	0.274	0.481	0.76		
		Right Cheek	0.014	0.086	0.10		
	Band 7	Right Tilted	0.007	0.126	0.13		
		Left Cheek	0.040	1.255	1.30		
		Left Tilted	0.007	0.481	0.49		

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			WWAN PCE	Bluetooth DSS	O		
10000	N.B.	E B	Max.	Estimated	Summed	001.00	Case
VVVVA	N Band	Exposure Position	WWAN SAR	Bluetooth SAR	SAR	SPLSR	No
			(W/kg)	(W/kg)	(W/kg)		
		Right Cheek	0.455	0.168	0.62		
		Right Tilted	0.234	0.168	0.40		
	GSM850	Left Cheek	0.481	0.168	0.65		
		Left Tilted	0.279	0.168	0.45		
GSM		Right Cheek	0.239	0.168	0.41		
	00144000	Right Tilted	0.127	0.168	0.30		
	GSM1900	Left Cheek	0.270	0.168	0.44		
		Left Tilted	0.197	0.168	0.37		
		Right Cheek	0.331	0.168	0.50		
	D 137	Right Tilted	0.148	0.168	0.32		
	Band V	Left Cheek	0.192	0.168	0.36		
		Left Tilted	0.175	0.168	0.34		
		Right Cheek	0.278	0.168	0.45		
14/00144	D I N /	Right Tilted	0.157	0.168	0.33		
WCDMA	Band IV	Left Cheek	0.356	0.168	0.52		
		Left Tilted	0.232	0.168	0.40		
		Right Cheek	0.251	0.168	0.42		
	B	Right Tilted	0.126	0.168	0.29		
	Band II	Left Cheek	0.304	0.168	0.47		
		Left Tilted	0.183	0.168	0.35		
		Right Cheek	0.067	0.168	0.24		
	Band 12	Right Tilted	0.040	0.168	0.21		
		Left Cheek	0.081	0.168	0.25		
		Left Tilted	0.050	0.168	0.22		
		Right Cheek	0.079	0.168	0.25		
	Dand 17	Right Tilted	0.046	0.168	0.21		
	Band 17	Left Cheek	0.089	0.168	0.26		
		Left Tilted	0.057	0.168	0.23		
		Right Cheek	0.332	0.168	0.50		
	Band 5	Right Tilted	0.168	0.168	0.34		
	Danu 5	Left Cheek	0.285	0.168	0.45		
LTE		Left Tilted	0.186	0.168	0.35		
LIE		Right Cheek	0.387	0.168	0.56		
	Dond 4	Right Tilted	0.188	0.168	0.36		
	Band 4	Left Cheek	0.339	0.168	0.51		
		Left Tilted	0.292	0.168	0.46		
		Right Cheek	0.326	0.168	0.49		
	Band 2	Right Tilted	0.159	0.168	0.33		
	Danu 2	Left Cheek	0.367	0.168	0.54		
		Left Tilted	0.274	0.168	0.44		
		Right Cheek	0.014	0.168	0.18		
	Dond 7	Right Tilted	0.007	0.168	0.18		
	Band 7	Left Cheek	0.040	0.168	0.21		
		Left Tilted	0.007	0.168	0.18		

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<Receiver2 configuration>:

			WWAN PCE	WLAN DTS	0		
\\/\\/	N Band	Exposure Position	Max.	Max.	Summed SAR	SPLSR	Case
V V V /-	ii Daliu	Exposure i osition	WWAN SAR	WLAN SAR	(W/kg)	SI LSIX	No
			(W/kg)	(W/kg)	(vv/kg)		
		Right Cheek	0.658	0.018	0.68		
	GSM850	Right Tilted	0.507	0.017	0.52		
	GSIVIOSO	Left Cheek	0.971	0.050	1.02		
GSM		Left Tilted	0.753	0.009	0.76		
GSIVI		Right Cheek	0.528	0.018	0.55		
	GSM1900	Right Tilted	0.553	0.017	0.57		
	GSW1900	Left Cheek	0.995	0.050	1.05		
		Left Tilted	1.103	0.009	1.11		
		Right Cheek	0.569	0.018	0.59		
	Band V	Right Tilted	0.614	0.017	0.63		
	Dallu V	Left Cheek	0.774	0.050	0.82		
		Left Tilted	0.984	0.009	0.99		
		Right Cheek	0.592	0.018	0.61		
WCDMA	Band IV	Right Tilted	0.516	0.017	0.53		
WCDIVIA	Band IV	Left Cheek	1.071	0.050	1.12		
		Left Tilted	0.755	0.009	0.76		
		Right Cheek	0.526	0.018	0.54		
	Dandill	Right Tilted	0.583	0.017	0.60		
	Band II	Left Cheek	1.316	0.050	1.37		
		Left Tilted	1.217	0.009	1.23		
		Right Cheek	0.404	0.018	0.42		
	D = = -1.40	Right Tilted	0.372	0.017	0.39		
	Band 12	Left Cheek	0.995	0.050	1.05		
		Left Tilted	0.634	0.009	0.64		
		Right Cheek	0.443	0.018	0.46		
	D 1.47	Right Tilted	0.446	0.017	0.46		
	Band 17	Left Cheek	1.024	0.050	1.07		
		Left Tilted	0.708	0.009	0.72		
		Right Cheek	1.101	0.018	1.12		
		Right Tilted	0.721	0.017	0.74		
	Band 5	Left Cheek	1.194	0.050	1.24		
		Left Tilted	1.046	0.009	1.06		
LTE		Right Cheek	0.563	0.018	0.58		
	5	Right Tilted	0.527	0.017	0.54		
	Band 4	Left Cheek	1.019	0.050	1.07		
		Left Tilted	0.956	0.009	0.97		
		Right Cheek	0.601	0.018	0.62		
		Right Tilted	0.588	0.017	0.61		
	Band 2	Left Cheek	1.121	0.050	1.17		
		Left Tilted	1.009	0.009	1.02		
		Right Cheek	0.573	0.018	0.59		
		Right Tilted	0.577	0.017	0.59		
	Band 7	Left Cheek	1.276	0.050	1.33		
		Left Tilted	1.309	0.009	1.32		

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			WWAN PCE	WLAN NII			
WWA	N Band	Exposure Position	Max. WWAN SAR	Max. WLAN SAR	Summed SAR	SPLSR	Case No
			(W/kg)	(W/kg)	(W/kg)		
		Right Cheek	0.658	< 0.001	0.66		
		Right Tilted	0.507	0.001	0.51		
	GSM850	Left Cheek	0.971	< 0.001	0.97		
		Left Tilted	0.753	< 0.001	0.75		
GSM		Right Cheek	0.528	< 0.001	0.53		
		Right Tilted	0.553	0.001	0.55		
	GSM1900	Left Cheek	0.995	< 0.001	1.00		
		Left Tilted	1.103	< 0.001	1.10		
		Right Cheek	0.569	< 0.001	0.57		
		Right Tilted	0.614	0.001	0.62		
	Band V	Left Cheek	0.774	< 0.001	0.77		
		Left Tilted	0.984	< 0.001	0.98		
		Right Cheek	0.592	< 0.001	0.59		
		Right Tilted	0.516	0.001	0.52		
WCDMA	Band IV	Left Cheek	1.071	< 0.001	1.07		
		Left Tilted	0.755	< 0.001	0.76		
		Right Cheek	0.526	< 0.001	0.53		
		Right Tilted	0.583	0.001	0.58		
	Band II	Left Cheek	1.316	< 0.001	1.32		
		Left Tilted	1.217	< 0.001	1.22		
		Right Cheek	0.404	< 0.001	0.40		
		Right Tilted	0.372	0.001	0.37		
	Band 12	Left Cheek	0.995	< 0.001	1.00		
		Left Tilted	0.634	< 0.001	0.63		
		Right Cheek	0.443	< 0.001	0.44		
		Right Tilted	0.446	0.001	0.45		
	Band 17	Left Cheek	1.024	< 0.001	1.02		
		Left Tilted	0.708	< 0.001	0.71		
		Right Cheek	1.101	< 0.001	1.10		
		Right Tilted	0.721	0.001	0.72		
	Band 5	Left Cheek	1.194	< 0.001	1.19		
		Left Tilted	1.046	< 0.001	1.05		
LTE		Right Cheek	0.563	< 0.001	0.56		
	5	Right Tilted	0.527	0.001	0.53		
	Band 4	Left Cheek	1.019	< 0.001	1.02		
		Left Tilted	0.956	< 0.001	0.96		
		Right Cheek	0.601	< 0.001	0.60		
	D 1.0	Right Tilted	0.588	0.001	0.59		
	Band 2	Left Cheek	1.121	< 0.001	1.12		
		Left Tilted	1.009	< 0.001	1.01		
		Right Cheek	0.573	< 0.001	0.57		
	D. 1-	Right Tilted	0.577	0.001	0.58		
	Band 7	Left Cheek	1.276	< 0.001	1.28		
		Left Tilted	1.309	< 0.001	1.31		

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			WWAN PCE	Bluetooth DSS			
10000		· · ·	Max.	Estimated	Summed	001.00	Case
VVVVA	N Band	Exposure Position	WWAN SAR	Bluetooth SAR	SAR	SPLSR	No
			(W/kg)	(W/kg)	(W/kg)		
		Right Cheek	0.658	0.168	0.83		
	00110-0	Right Tilted	0.507	0.168	0.68		
	GSM850	Left Cheek	0.971	0.168	1.14		
		Left Tilted	0.753	0.168	0.92		
GSM		Right Cheek	0.528	0.168	0.70		
		Right Tilted	0.553	0.168	0.72		
	GSM1900	Left Cheek	0.995	0.168	1.16		
		Left Tilted	1.103	0.168	1.27		
		Right Cheek	0.569	0.168	0.74		
	5 11/	Right Tilted	0.614	0.168	0.78		
	Band V	Left Cheek	0.774	0.168	0.94		
		Left Tilted	0.984	0.168	1.15		
		Right Cheek	0.592	0.168	0.76		
		Right Tilted	0.516	0.168	0.68		
WCDMA	Band IV	Left Cheek	1.071	0.168	1.24		
		Left Tilted	0.755	0.168	0.92		
		Right Cheek	0.526	0.168	0.69		
		Right Tilted	0.583	0.168	0.75		
	Band II	Left Cheek	1.316	0.168	1.48		
		Left Tilted	1.217	0.168	1.39		
		Right Cheek	0.404	0.168	0.57		
	D 140	Right Tilted	0.372	0.168	0.54		
	Band 12	Left Cheek	0.995	0.168	1.16		
		Left Tilted	0.634	0.168	0.80		
		Right Cheek	0.443	0.168	0.61		
	5	Right Tilted	0.446	0.168	0.61		
	Band 17	Left Cheek	1.024	0.168	1.19		
		Left Tilted	0.708	0.168	0.88		
		Right Cheek	1.101	0.168	1.27		
	D	Right Tilted	0.721	0.168	0.89		
	Band 5	Left Cheek	1.194	0.168	1.36		
		Left Tilted	1.046	0.168	1.21		
LTE		Right Cheek	0.563	0.168	0.73		
	D 1.4	Right Tilted	0.527	0.168	0.70		
	Band 4	Left Cheek	1.019	0.168	1.19		
		Left Tilted	0.956	0.168	1.12		
		Right Cheek	0.601	0.168	0.77		
	D 1.0	Right Tilted	0.588	0.168	0.76		
	Band 2	Left Cheek	1.121	0.168	1.29		
		Left Tilted	1.009	0.168	1.18		
		Right Cheek	0.573	0.168	0.74		
	D. 1-	Right Tilted	0.577	0.168	0.75		
	Band 7	Left Cheek	1.276	0.168	1.44		
		Left Tilted	1.309	0.168	1.48		

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16.2 Hotspot Exposure Conditions

λΛ/λΛ/Δ	N Band	Exposure Position	WWAN PCE Max.	WLAN DTS Max.	Summed SAR	SPLSR	Case
V V V /	III Danu	Exposure i osition	WWAN SAR	WLAN SAR	(W/kg)	OI LOIX	No
		Front	(W/kg) 0.579	(W/kg) 0.238	0.82		
		Back	0.721	0.508	1.23		
		Left Side	0.606		0.61		
	GSM850	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	0.353		0.35		
GSM		Front	0.716	0.238	0.95		
		Back	0.967	0.508	1.48		
	00144000	Left Side	0.286		0.29		
	GSM1900	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	0.987		0.99		
		Front	0.331	0.238	0.57		
		Back	0.505	0.508	1.01		
	Band V	Left Side	0.391		0.39		
	balla v	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	0.198		0.20		
		Front	0.771	0.238	1.01		
		Back	0.887	0.508	1.40		
WCDMA	Band IV	Left Side	0.286		0.29		
VVCDIVIA	Danu IV	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	0.649		0.65		
		Front	1.138	0.238	1.38		
		Back	1.160	0.508	1.67	0.02	#11
	Band II	Left Side	0.339		0.34		
	Danu	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	1.181		1.18		

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		Front	0.122	0.238	0.36		
		Back	0.185	0.508	0.69		
	D. 140	Left Side	0.147		0.15		
	Band 12	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	0.042		0.04		
		Front	0.135	0.238	0.37		
	Band 17	Back	0.208	0.508	0.72		
		Left Side	0.162		0.16		
	Band 17	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	0.044		0.04		
		Front	0.381	0.238	0.62		
		Back	0.522	0.508	1.03		
	Dond 5	Left Side	0.417		0.42		
	Band 5	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
LTE		Bottom Side	0.202		0.20		
LIE	Band 4	Front	1.027	0.238	1.27		
		Back	1.003	0.508	1.51		
		Left Side	0.319		0.32		
		Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	0.902		0.90		
		Front	1.136	0.238	1.37		
		Back	1.319	0.508	1.83	0.02	#12
	Band 2	Left Side	0.344		0.34		
	Banu 2	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	1.208		1.21		
		Front	0.535	0.238	0.77		
		Back	1.399	0.508	1.91	0.02	#13
	Band 7	Left Side	0.074		0.07		
	Dallu I	Right Side		0.190	0.19		
		Top Side		0.142	0.14		
		Bottom Side	1.421		1.42		

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10/10/0	N. Dand	Evenesia Desition	WWAN PCE Max.	WLAN NII Max.	Summed	CDI CD	Case
VVVVA	N Band	Exposure Position	WWAN SAR (W/kg)	WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	No
		Front	0.579	0.127	0.71		
		Back	0.721	0.155	0.88		
	GSM850	Left Side	0.606		0.61		
	GSM 65M1900	Right Side		0.282	0.28		
		Top Side		0.094	0.09		
CCM		Bottom Side	0.353		0.35		
GSIVI		Front	0.716	0.127	0.84		
		Back	0.967	0.155	1.12		
		Left Side	0.286		0.29		
	GSW1900	Right Side		0.282	0.28		
		Top Side		0.094	0.09		
		Bottom Side	0.987		0.99		
		Front	0.331	0.127	0.46		
		Back	0.505	0.155	0.66		
	Band V	Left Side	0.391		0.39		
	Dallu V	Right Side		0.282	0.28		
		Top Side		0.094	0.09		
		Bottom Side	0.198		0.20		
		Front	0.771	0.127	0.90		
		Back	0.887	0.155	1.04		
WCDMA	Band IV	Left Side	0.286		0.29		
VVCDIVIA	Band IV	Right Side		0.282	0.28		
		Top Side		0.094	0.09		
		Bottom Side	0.649		0.65		
		Front	1.138	0.127	1.27		
		Back	1.160	0.155	1.32		
	Band II	Left Side	0.339		0.34		
	Dailu II	Right Side		0.282	0.28		
		Top Side		0.094	0.09		
		Bottom Side	1.181		1.18		

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		Front	0.122	0.127	0.25	
		Back	0.185	0.155	0.34	
		Left Side	0.147	0.100	0.15	
	Band 12	Right Side	3	0.282	0.28	
		Top Side		0.094	0.09	
		Bottom Side	0.042	0.000	0.04	
		Front	0.135	0.127	0.26	
		Back	0.208	0.155	0.36	
		Left Side	0.162		0.16	
	Band 17	Right Side		0.282	0.28	
		Top Side		0.094	0.09	
		Bottom Side	0.044		0.04	
		Front	0.381	0.127	0.51	
		Back	0.522	0.155	0.68	
	D 1.5	Left Side	0.417		0.42	
	Band 5	Right Side		0.282	0.28	
		Top Side		0.094	0.09	
LTE		Bottom Side	0.202		0.20	
LIE		Front	1.027	0.127	1.15	
		Back	1.003	0.155	1.16	
	Band 4	Left Side	0.319		0.32	
	Banu 4	Right Side		0.282	0.28	
		Top Side		0.094	0.09	
		Bottom Side	0.902		0.90	
		Front	1.136	0.127	1.26	
		Back	1.319	0.155	1.47	
	Band 2	Left Side	0.344		0.34	
	Dailu Z	Right Side		0.282	0.28	
		Top Side		0.094	0.09	
		Bottom Side	1.208		1.21	
		Front	0.535	0.127	0.66	
		Back	1.399	0.155	1.55	
	Band 7	Left Side	0.074		0.07	
	Dailu /	Right Side		0.282	0.28	
		Top Side		0.094	0.09	
		Bottom Side	1.421		1.42	

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WWAN PCE Bluetooth DSS Summed Case Estimated Max. SAR **SPLSR WWAN Band Exposure Position** WWAN SAR No Bluetooth SAR (W/kg) (W/kg) (W/kg) 0.084 0.579 0.66 Front Back 0.721 0.084 0.81 Left Side 0.606 0.61 GSM850 Right Side 0.084 0.08 Top Side 0.084 80.0 **Bottom Side** 0.353 0.35 **GSM** Front 0.716 0.084 0.80 Back 0.967 0.084 1.05 Left Side 0.286 0.29 GSM1900 Right Side 0.084 80.0 Top Side 0.084 0.08 **Bottom Side** 0.987 0.99 Front 0.331 0.084 0.42 Back 0.505 0.084 0.59 Left Side 0.391 0.39 Band V Right Side 0.084 0.08 Top Side 0.084 0.08 **Bottom Side** 0.20 0.198 Front 0.771 0.084 0.86 Back 0.887 0.084 0.97 Left Side 0.286 0.29 **WCDMA** Band IV Right Side 0.084 80.0 Top Side 0.084 80.0 **Bottom Side** 0.65 0.649 Front 1.22 1.138 0.084 Back 1.160 0.084 1.24 Left Side 0.339 0.34 Band II Right Side 0.084 80.0 Top Side 0.084 0.08 Bottom Side 1.181 1.18

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		Front	0.122	0.084	0.21	
	Band 12	Back	0.185	0.084	0.27	
		Left Side	0.147		0.15	
	Band 12	Right Side		0.084	0.08	
		Top Side		0.084	0.08	
		Bottom Side	0.042		0.04	
		Front	0.135	0.084	0.22	
		Back	0.208	0.084	0.29	
	Band 17	Left Side	0.162		0.16	
	Ballu 17	Right Side		0.084	0.08	
		Top Side		0.084	0.08	
		Bottom Side	0.044		0.04	
		Front	0.381	0.084	0.47	
		Back	0.522	0.084	0.61	
	Band 5	Left Side	0.417		0.42	
	Danu 5	Right Side		0.084	0.08	
		Top Side		0.084	0.08	
LTE		Bottom Side	0.202		0.20	
LIL		Front	1.027	0.084	1.11	
		Back	1.003	0.084	1.09	
	Band 4	Left Side	0.319		0.32	
	Dana 4	Right Side		0.084	0.08	
		Top Side		0.084	0.08	
		Bottom Side	0.902		0.90	
		Front	1.136	0.084	1.22	
		Back	1.319	0.084	1.40	
	Band 2	Left Side	0.344		0.34	
	Dana 2	Right Side		0.084	0.08	
		Top Side		0.084	0.08	
		Bottom Side	1.208		1.21	
		Front	0.535	0.084	0.62	
	Band 7	Back	1.399	0.084	1.48	
		Left Side	0.074		0.07	
	Dailu /	Right Side		0.084	0.08	
		Top Side		0.084	0.08	
		Bottom Side	1.421		1.42	

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16.3 Body-Worn Accessory Exposure Conditions

IAWW	N Band	Exposure Position	WWAN PCE Max. WWAN SAR (W/kg)	WLAN DTS Max. WLAN SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
	GSM850	Front	0.579	0.238	0.82		
GSM -	GSIVIOSO	Back	0.721	0.508	1.23		
GOIVI	GSM1900	Front	0.716	0.238	0.95		
	GSW1900	Back	0.967	0.508	1.48		
	Band V	Front	0.331	0.238	0.57		
	Dallu V	Back	0.505	0.508	1.01		
WCDMA	Band IV	Front	0.771	0.238	1.01		
VVCDIVIA	Danu IV	Back	0.887	0.508	1.40		
	Band II	Front	1.138	0.238	1.38		
		Back	1.16	0.508	1.67	0.02	#11
	Band 12	Front	0.122	0.238	0.36		
	Dallu 12	Back	0.185	0.508	0.69		
	Band 17	Front	0.135	0.238	0.37		
		Back	0.208	0.508	0.72		
	Band 5	Front	0.381	0.238	0.62		
	Danu 5	Back	0.522	0.508	1.03		
LTE	Band 4	Front	1.027	0.238	1.27		
LIE	Danu 4	Back	1.003	0.508	1.51		
		Front	1.136	0.238	1.37		
	Band 2	Back	1.319	0.508	1.83	0.02	#12
		Back with headset	1.347		1.35		
		Front	0.535	0.238	0.77		
	Band 7	Back	1.399	0.508	1.91	0.02	#13
		Back with headset	1.388		1.39		

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WWAI	N Band	Exposure Position	WWAN PCE Max. WWAN SAR (W/kg)	WLAN NII Max. WLAN SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
	GSM850	Front	0.579	0.127	0.71		
GSM	GSIVIOSO	Back	0.721	0.155	0.88		
GSM1900	GSM1000	Front	0.716	0.127	0.84		
	GSW1900	Back	0.967	0.155	1.12		
	Band V	Front	0.331	0.127	0.46		
	Dallu V	Back	0.505	0.155	0.66		
WCDMA	Band IV	Front	0.771	0.127	0.90		
VVCDIVIA	Dallu IV	Back	0.887	0.155	1.04		
	Band II	Front	1.138	0.127	1.27		
	Dallu II	Back	1.16	0.155	1.32		
	Band 12	Front	0.122	0.127	0.25		
	Danu 12	Back	0.185	0.155	0.34		
	Band 17	Front	0.135	0.127	0.26		
	Danu 17	Back	0.208	0.155	0.36		
	Band 5	Front	0.381	0.127	0.51		
	Band 5	Back	0.522	0.155	0.68		
LTE	Band 4	Front	1.027	0.127	1.15		
LIE	Dallu 4	Back	1.003	0.155	1.16		
		Front	1.136	0.127	1.26		
Band :	Band 2	Back	1.319	0.155	1.47		
		Back with headset	1.347		1.35		
		Front	0.535	0.127	0.66		
	Band 7	Back	1.399	0.155	1.55		
		Back with headset	1.388		1.39		

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WWAI	N Band	Exposure Position	WWAN PCE Max. WWAN SAR (W/kg)	Bluetooth DSS Estimated Bluetooth SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
	GSM850	Front	0.579	0.084	0.66		
GSM	GSIVIOSU	Back	0.721	0.084	0.81		
GSIVI	GSM1900	Front	0.716	0.084	0.80		
	G3W1900	Back	0.967	0.084	1.05		
	Band V	Front	0.331	0.084	0.42		
		Back	0.505	0.084	0.59		
WCDMA		Front	0.771	0.084	0.86		
WCDIVIA	Danu IV	Back	0.887	0.084	0.97		
	Band II	Front	1.138	0.084	1.22		
	Dallu II	Back	1.16	0.084	1.24		
	Band 12	Front	0.122	0.084	0.21		
	Danu 12	Back	0.185	0.084	0.27		
	Band 17	Front	0.135	0.084	0.22		
	Dallu 17	Back	0.208	0.084	0.29		
	Band 5	Front	0.381	0.084	0.47		
	Danu 5	Back	0.522	0.084	0.61		
LTE	Band 4	Front	1.027	0.084	1.11		
LIE	Dallu 4	Back	1.003	0.084	1.09		
		Front	1.136	0.084	1.22		
	Band 2	Back	1.319	0.084	1.40		
		Back with headset	1.347		1.35		
		Front	0.535	0.084	0.62		
	Band 7	Back	1.399	0.084	1.48		
		Back with headset	1.388		1.39		

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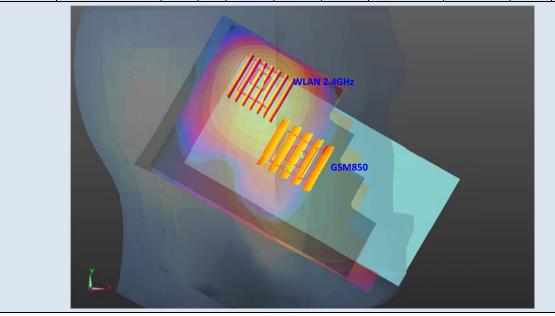
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16.4 SPLSR Evaluation and Analysis

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

Case No #1	Band	SAR			eak locati	on (m)	3D distance	Pair SAR	SPLSR	Simultaneous
Position		(W/kg)	(cm)	Х	Υ	Z	(mm)	sum (W/kg)		SAR
Left Cheek	GSM850	0.481	0	0.0611	0.275	-0.174	60.46	1.87	0.04	Not required
Left Cheek	WLAN 2.4GHz	1.385	0	0.0383	0.331	-0.174	00.40	1.07	0.04	Not required

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Case No #2	Band	SAR	Gap		eak locati	ion (m)	3D distance	Pair SAR	SPLSR	Simultaneous
Position		(W/kg)	(cm)	Х	Υ	Z	(mm)	sum (W/kg)		SAR
Left Cheek	GSM1900	0.270	0	0.0631	0.253	-0.172	81.87	1.66	0.03	Not required
Left Officer	WLAN 2.4GHz	1.385	0	0.0383	0.331	-0.174	01.07	1.00	0.03	Not required
					///www	GSM19				

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Case No #3	Band	SAR	Gap		eak locati	ion (m)	3D distance	Pair SAR	SPLSR	Simultaneous
Position		(W/kg)	(cm)	Х	Υ	Z	(mm)	sum (W/kg)		SAR
Left Cheek	WCDMA Band IV	0.356	0	0.0639	0.255	-0.172	80.22	1.74	0.03	Not required
Left Officer	WLAN 2.4GHz	1.385	0	0.0383	0.331	-0.174	00.22	1.74	0.03	Not required
					//// wi	AN 2.4GHz	WA Band IV			

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Case No #4	Band	SAR	Gap		eak locati	on (m)	3D distance	Pair SAR	SPLSR	Simultaneous SAR
Position		(W/kg)	(cm)	Х	Y	Z	(mm)	sum (W/kg)		SAR
Left Cheek	WCDMA Band II	0.304	0	0.0627	0.255	-0.172	79.85	1.69	0.03	Not required
Left Officer	WLAN 2.4GHz	1.385	0	0.0383	0.331	-0.174	7 5.05	1.00	0.00	Not required
						LAN 2,4 GH	IA Band II			

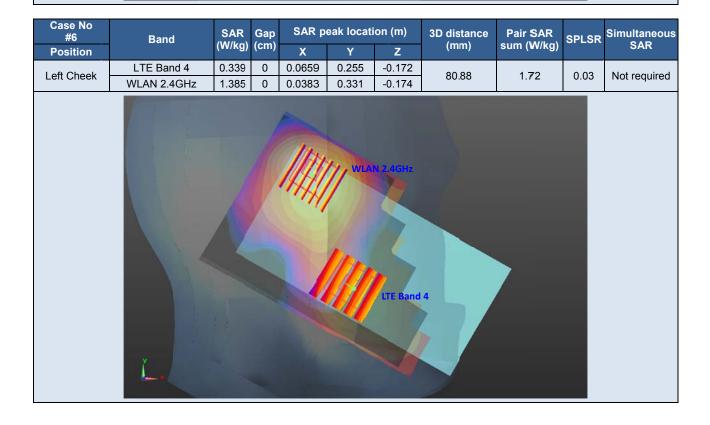
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Case No #5	Band	SAR	Gap	SAR p	eak locat	ion (m)	3D distance	Pair SAR	SPLSR	Simultaneous SAR
Position		(W/kg)	(cm)	Х	Υ	Z	(mm)	sum (W/kg)		SAR
Left Cheek	LTE Band 5	0.285	0	0.0648	0.28	-0.174	57.47	1.67	0.04	Not required
Left Officer	WLAN 2.4GHz	1.385	0	0.0383	0.331	-0.174	57.47	1.07	0.04	Not required
					/ JAVLAN	LTE Ban	d 5			

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Case No #7	Band	SAR	Gap		eak locat	ion (m)	3D distance	Pair SAR	SPLSR	Simultaneou SAR
Position		(W/kg)	(cm)	X	Υ	Z	(mm)	sum (W/kg)		SAR
Left Cheek	LTE Band 2	0.367	0	0.0603	0.26	-0.173	74.34	1.75	0.03	Not required
Left Officer	WLAN 2.4GHz	1.385	0	0.0383	0.331	-0.174	74.54	1.73	0.03	Not required
					WLAN 2	4GHz				

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Case No #8	Band	SAR	Gap	SAR p	eak locati	on (m)	3D distance	Pair SAR	SPLSR	Simultaneous SAR
Position		(W/kg)	(cm)	Х	Y	Z	(mm)	sum (W/kg)		SAR
Left Cheek	GSM850	0.481	0	0.0611	0.275	-0.174	64.63	1.74	0.04	Not required
Left Officer	WLAN 5GHz	1.255	0	0.0371	0.335	-0.175	04.00	1.74	0.04	Not required
					WLAN 5	GSM850				

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Case No #9	Band	SAR	Gap	SAR p	eak locat	ion (m)	3D distance	Pair SAR	SPLSR	Simultaneou
Position		(W/kg)	(cm)	Х	Υ	Z	(mm)	sum (W/kg)		SAR
Left Cheek	WCDMA Band IV	0.356	0	0.0639	0.255	-0.172	84.42	1.61	0.02	Not required
Leit Cheek	WLAN 5GHz	1.255	0	0.0371	0.335	-0.175	04.42	1.01	0.02	Not required
					WLAN:	WCDMA B	and IV		ı	

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Case No #10	Band	SAR	Gap		eak locati	ion (m)	3D distance	Pair SAR	SPLSR	Simultaneous SAR
Position		(W/kg)	(cm)	Х	Y	Z	(mm)	sum (W/kg)		SAR
Left Cheek	LTE Band 2	0.367	0	0.0603	0.26	-0.173	78.53	1.62	0.03	Not required
Left Officer	WLAN 5GHz	1.255	0	0.0371	0.335	-0.175	70.55	1.02	0.03	Not required
					WLAN	LTE Band	2			

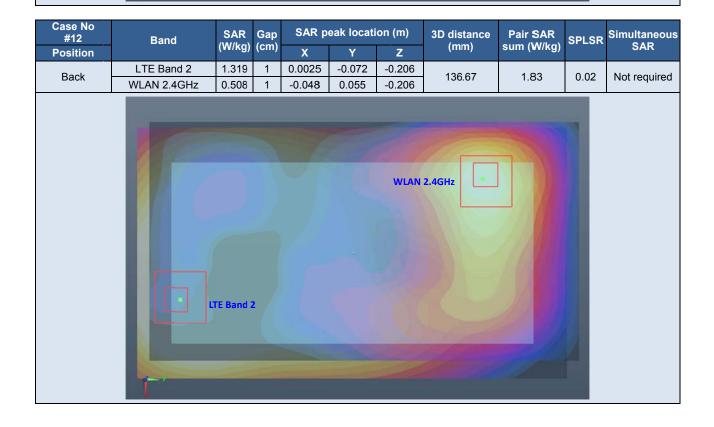
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Case No #11	Band	SAR	Gap	SAR p	eak locati	ion (m)	3D distance	Pair SAR	SPLSR	Simultaneou SAR
Position		(W/kg)	(cm)	Х	Y	Z	(mm)	sum (W/kg)		SAR
Back	WCDMA Band II	1.160	1	0.0025	-0.069	-0.205	133.89	1.67	0.02	Not required
Dack	WLAN 2.4GHz	0.508	1	-0.048	0.055	-0.206	100.00	1.07	0.02	Not require
		WCDMA	A Band	"		WLAN 2.	4GHz			

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Case No #13	Band	SAR	Gap	SAR p	eak locati	on (m)	3D distance	Pair SAR	SPLSR	Simultaneous SAR
Position	24.14	(W/kg)	(cm)	Х	Υ	Z	(mm)	sum (W/kg)	O. 20.0	SAR
Back	LTE Band 7	1.399	1	-0.0014	-0.0746	-0.205	137.73	1.91	0.02	Not required
Dack	WLAN 2.4GHz	0.508	1	-0.048	0.055	-0.206	107.70	1.91	0.02	Not required
		LTE B3	and 7			WLAN 2	.4GHz			

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Test Engineer: Frank Qiao

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17. Uncertainty Assessment

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

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A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

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

Table 17.1. Standard Uncertainty for Assumed Distribution

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

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

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Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)				
Measurement System											
Probe Calibration	6.0	Normal	1	1	1	± 6.0 %	± 6.0 %				
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %				
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %				
Boundary Effects	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %				
Linearity	4.7	Rectangular	√3	1	1	± 2.7 %	± 2.7 %				
System Detection Limits	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %				
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %				
Response Time	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %				
Integration Time	2.6	Rectangular	√3	1	1	± 1.5 %	± 1.5 %				
RF Ambient Noise	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %				
RF Ambient Reflections	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %				
Probe Positioner	0.4	Rectangular	√3	1	1	± 0.2 %	± 0.2 %				
Probe Positioning	2.9	Rectangular	√3	1	1	± 1.7 %	± 1.7 %				
Max. SAR Eval.	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %				
Test Sample Related											
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %				
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %				
Power Drift	5.0	Rectangular	√3	1	1	± 2.9 %	± 2.9 %				
Phantom and Setup											
Phantom Uncertainty	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %				
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	± 1.8 %	± 1.2 %				
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	0.43	± 1.6 %	± 1.1 %				
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	0.49	± 1.7 %	± 1.4 %				
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	0.49	± 1.5 %	± 1.2 %				
Combined Standard Uncertainty						± 11.0 %	± 10.8 %				
Coverage Factor for 95 %						K=2					
Expanded Uncertainty						± 22.0 %	± 21.5 %				

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

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Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)
Measurement System							
Probe Calibration	6.55	Normal	1	1	1	± 6.55 %	± 6.55 %
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %
Boundary Effects	2.0	Rectangular	√3	1	1	± 1.2 %	± 1.2 %
Linearity	4.7	Rectangular	√3	1	1	± 2.7 %	± 2.7 %
System Detection Limits	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %
Response Time	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %
Integration Time	2.6	Rectangular	√3	1	1	± 1.5 %	± 1.5 %
RF Ambient Noise	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
RF Ambient Reflections	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Probe Positioner	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %
Probe Positioning	9.9	Rectangular	√3	1	1	± 5.7 %	± 5.7 %
Max. SAR Eval.	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %
est Sample Related							
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %
Power Drift	5.0	Rectangular	√3	1	1	± 2.9 %	± 2.9 %
Phantom and Setup	•				•		
Phantom Uncertainty	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	± 1.8 %	± 1.2 %
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	0.43	± 1.6 %	± 1.1 %
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	0.49	± 1.7 %	± 1.4 %
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	0.49	± 1.5 %	± 1.2 %
Combined Standard Uncertainty						± 12.8 %	± 12.6 %
Coverage Factor for 95 %						K=2	
Expanded Uncertainty	± 25.6 %	± 25.2 %					

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

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