

Report No.: AR/2021/3000903

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FCC SAR TEST REPORT

Report No:

Applicant: Xiaomi Communications Co., Ltd. Manufacturer: Xiaomi Communications Co., Ltd.

Product Name: Mobile Phone M1908C3JGG Model No.(EUT):

Brand mark: Redmi

FCC ID: 2AFZZC3JGG

Standards: FCC 47CFR §2.1093

Date of Receipt: 2021-03-23

Date of Test: 2021-03-24 to 2021-04-06

Date of Issue: 2021-04-09 **Test conclusion:** PASS *

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Derele yang

Derek Yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
AR/2021/3000903	01	Original	2021-04-09



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TEST SUMMARY

		Maximum Repor	ted SAR(W/kg)	
Frequency Band	Head	Body-worn	Hotspot	Product Specific 10-g SAR
GSM850	0.11	<0.10	0.22	/
GSM1900	<0.10	0.30	0.57	/
WCDMA Band II	0.82	0.58	0.97	/
WCDMA Band IV	0.91	0.49	0.92	/
WCDMA Band V	0.80	0.15	0.30	/
LTE Band 2	0.78	0.66	0.87	/
LTE Band 4	0.97	0.75	1.04	/
LTE Band 5	0.95	0.19	0.40	/
LTE Band 7	0.74	0.30	0.55	/
LTE Band 38	0.67	0.23	0.56	/
WI-FI (2.4GHz)	0.58	0.18	0.42	/
WI-FI (5GHz)	0.33	0.49	0.59	0.95
Bluetooth	<0.10	<0.10	<0.10	/
SAR Limited(W/kg)		1.6		4.0
M	aximum Simultaneous	Transmission SAR	(W/kg)	
Scenario	Head	Body-worn	Hotspot	Product Specific 10-g SAR
Sum SAR	1.27	1.24	1.59	0.95
SPLSR	/	/	/	/
SPLSR Limited		0.04		0.1

Reviewed by

ackson li

Jackson Li

Tested by

Roman Pan

Roman Pan



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1 General Information

1.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Test Location

Company: SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

Address: No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen,

Guangdong, China

Post code: 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594



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1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006

IC#: 4620C.



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1.4 General Description of EUT

Device Type :	portable device									
Exposure Category:		/ general population								
Product Name:	uncontrolled environment / general population Mobile Phone									
Model No.(EUT):	M1908C3JGG									
FCC ID:	2AFZZC3JGG									
Brand mark:	Redmi									
Product Phase:	Identical Prototype									
IMEI:	865607050033766 / 8656	07050030549								
Hardware Version:	P1									
Software Version:	MIUI 12.5									
Antenna Type:	PIFA Antenna									
Device Operating Configuration	ons :									
. 3		DMA: QPSK,16QAM(HSPA+);							
Modulation Mode:	LTE: QPSK,16QAM;									
		GFSK, π/4DQPSK,8DPSK								
Device Class:	В	<u> </u>	T							
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12							
HSDPA UE Category:	14	HSUPA UE Category	6							
DC-HSDPA UE Category:	24									
	4,tested with power level 5(GSM850)									
Power Class	1,tested with power level 0(GSM1900)									
1 Ower Class	3, tested with power control "all 1"(WCDMA Band)									
	3, tested with power control Max Power(LTE Band)									
	Band	Tx (MHz)	Rx (MHz)							
	GSM850	824~849	869~894							
	GSM1900	1850~1910	1930~1990							
	WCDMA Band II	1850~1910	1930~1990							
	WCDMA Band IV	1710~1755	2110~2155							
	WCDMA Band V	824~849	869~894							
	LTE Band 2	1850 ~1910	1930 ~1990							
	LTE Band 4	1710~1755	2110~2155							
Frequency Bands:	LTE Band 5	824~849	869-894							
	LTE Band 7	2500~2570	2620~2690							
	LTE Band 38	2570~2620	2570~2620							
	Bluetooth	2402~2480	2402~2480							
	Wi-Fi 2.4G	2402~2472	2402~2472							
		5150~5250	5150~5250							
	Wi-Fi 5G	5250~5350	5250~5350							
	VVI-I-I DG	5470~5725	5470~5725							
		5725~5825	5725~5825							
	Model:	BN46								
Battery Information 1#:	Normal Voltage:	+3.85V								
	Rated capacity:	4000mAh								
	Model:	BN46								



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Normal Voltage:	+3.85V
Rated capacity:	4000mAh



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1.4.1 DUT Antenna Locations

Please see the Appendix D.

Note:

The test device is a smart phone. The overall diagonal dimension of this device is 163 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

According to the distance between LTE/WCDMA/GSM&WIFI&BT antennas and the sides of the EUT we can draw the conclusion that:

A CAT THE CONTROL HIGH										
EUT Sides for SAR Testing										
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom			
Main(Ant1)	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes			
DIV(Ant2)	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No			
WIFI/BT Ant	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No			

Table 1: **EUT Sides for SAR Testing**

Note:

- 1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
- WWAN antenna(Ant1/2) can't transmit simultaneously which will be chosen based on the RSSI. Only one antenna can be used transmission at a time.



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1.4.2 LTE CA additional specification

The device supports downlink and intra-band contiguous uplink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- a) Intra-band carrier aggregation requirements for uplink.
- b) Intra-band and inter-band carrier aggregation requirements for downlink.

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Section 8 of this report per 3GPP TS 36.521-1 V14.4.0. The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

SAR test procedure for intra-band contiguous UL LTE CA is as below:

- 1)Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05
- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.
- 2)SAR for UL CA is required in each exposure condition and frequency band combination
- 3)For this device, as the maximum output for Intra-band uplink LTE CA is ≤ standalone LTE mode (without CA),
- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- 4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)
- 5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

Intra-band contiguous CA operating bands:

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band BS receive / UE transmit			Downlink (DI BS transm	Duplex Mode		
		Ful_low - Ful_high			F _{DL_lov}			
CA_7	7	2500 MHz	_	2570 MHz	2620 MHz	_	2690 MHz	FDD
CA_38	38	2570 MHz	_	2620 MHz	2570 MHz	_	2620 MHz	TDD



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contiguous intra-band CA:

		E-UTRA CA configuration / Bandwidth combination set									
	Uplink CA configurations	Componer	nt carriers in o frequ	Maximum	Donalisidth						
E-UTRA CA configuration	(NOTE 3)	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	aggregated bandwidth [MHz]	Bandwidth combination set				
		15 20	15 20			40	0				
		10	20								
CA_7C	CA_7C	15	15, 20			40	1				
		20	10, 15, 20								
		15	10, 15			40	2				
		20	15, 20			40	2				
CA 38C	CA 38C	15	15			40	0				
UA_36U	CA_38C	20	20			40	U				

Test frequencies for CA_7C:

Range	CC-Combo / NRB_agg [RB]	CC1 Note1				CC2 Note1					
		BW [RB]	NuL	f _{∪∟} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	NuL	f _{∪∟} [MHz]	NDL	f _{DL} [MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
	100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
	100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
	100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680
Note 1:	Carriers in increa	sing fred	quency o	rder.							



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Test frequencies for CA 38C:

Damas	CC-Combo /		CC1 Note1								
Range	NRB_agg [RB]	BW NUL/DL		ful/dl [MHz]	BW [RB]	Mui /bi					
Low	75+75	75	37825	2577.5	75	37975	2592.5				
	100+100	100	37850	2580	100	38048	2599.8				
Mid	75+75	75	37925	2587.5	75	38075	2602.5				
	100+100	100	37901	2585.1	100	38099	2604.9				
High	75+75	75	38025	2597.5	75	38175	2612.5				
	100+100	100	37952	2590.2	100	38150	2610				
	Note 1: Carriers in increasing frequency order.										



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1.4.3 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation.

- A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction
- 2) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.
- The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance(Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

The following tables summarize the key power reduction information. The detailed full power which is the Max. power the state can use and reduced tune-up specifications and conducted power measurement results are provided in Section 8 of this report.

Ant1 Power Level(dBm)							
Power Reduction	GSM1900	WCDMA	WCDMA	LTE	LTE	LTE	LTE Band
Scenario	G3W1900	Band II	Band IV	Band 2	Band 4	Band 7	38
Sensor off	30.5	24.0	24.0	24.0	24.0	24.0	24.0
Sensor on	27.5	19.0	19.0	19.0	19.0	20.0	22.0

Ant2 Power Level(dBm)								
Power Reduction	WCDMA	WCDMA	WCDMA	LTE	LTE	LTE	LTE	LTE
Scenario	Band II	Band IV	Band V	Band 2	Band 4	Band 5	Band 7	Band 38
Receiver off/Sensor off	24.0	24.0	24.0	24.0	24.0	24.5	24.0	24.0
Receiver on	17.5	17.0	23.0	17.5	17.0	23.5	18.5	22.0
Sensor on	21.0	21.0	/	21.0	21.0	/	21.0	23.0

WIFI Ant Power Level(dBm)					
Power Reduction Scenario	802.11b	802.11a			
Receiver off	20.5	18.5			
Receiver on	18.5	11.5			



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1.5 Test Specification

Identity	Document Title	
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices	
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.	
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Avera Specific Absorption Rate (SAR) in the Human Head from Wirele Communications Devices: Measurement Techniques	
KDB 941225 D01	3G SAR Measurement Procedures v03r01	
KDB 941225 D05	SAR for LTE Devices v02r05	
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02	
KDB 941225 D06	Hotspot Mode SAR v02r01	
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02	
KDB 648474 D04	Handset SAR v01r03	
KDB 447498 D01	General RF Exposure Guidance v06	
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04	
KDB 865664 D02	RF Exposure Reporting v01r02	
KDB 690783 D01	SAR Listings on Grants v01r03	
KDB 616217 D04	SAR for laptop and tablets v01r02	



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1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational	
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g	
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g	
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g	

Notes:

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

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.)



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^{*} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



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Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C			
Relative humidity	Min. = 30%, Max. = 70%			
Ground system resistance	< 0.5 Ω			
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.				

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

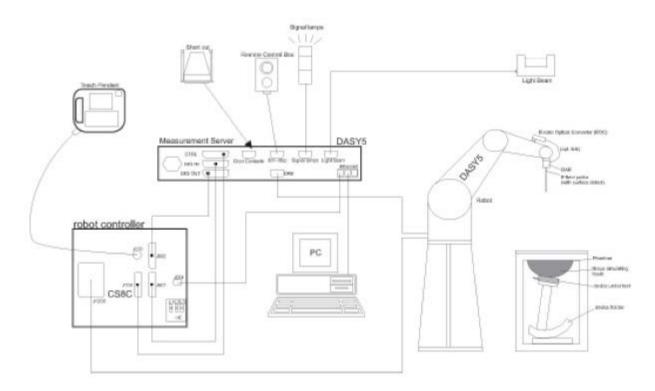
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

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 between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration



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- 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: \pm 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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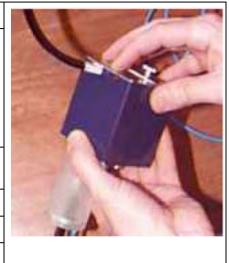


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3.3 Data Acquisition Electronics (DAE)

Model	DAE
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5μV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	
Wooden Support	SPEAG standard phantom table	



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)		
Liquid	Compatible with all SPEAG tissue		
Compatibility	simulating liquids (incl. DGBE type)		
Shell Thickness	2.0 ± 0.2 mm (bottom plate)		
Dimensions	Major axis: 600 mm		
	Minor axis: 400 mm		
Filling Volume	approx. 30 liters		
Wooden Support	SPEAG standard phantom table		



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\varepsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-q SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
			$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ 3 - 4 GHz: $\leq 12 \text{ mm}$ 2 - 3 GHz: $\leq 12 \text{ mm}$ 4 - 6 GHz: $\leq 10 \text{ mm}$	
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm*	$3 - 4 \text{ GHz} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz} \le 4 \text{ mm}^*$	
	uniform grid: Δz _{Z∞m} (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 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
grid Δz _{Zoom} (n>1): between subsequen points		between subsequent	≤ 1.5·Δz	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

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factorDiode compression pointDcpi

Device parameters: - Frequency f
- Crest factor cf
Media parameters: - Conductivity ε

- Density p

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel i (i = x, y, z)

Ui = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

Vi = compensated signal of channel i

Normi = sensor sensitivity of channel I

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

SAR = local specific absorption rate in mW/g with

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in q/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770_{or} P_{pwe} = H_{tot}^2 \cdot 37.7$$

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04. SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. 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.

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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5 Description of Test Position

5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

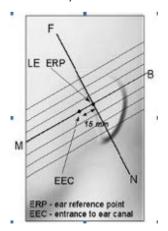


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

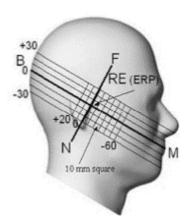
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



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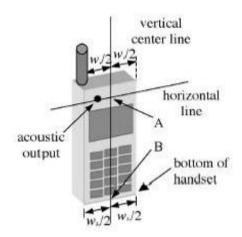
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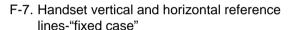


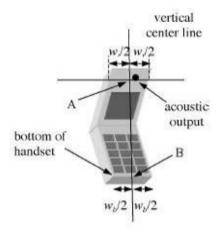
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5.1.2 EUT constructions







F-8. Handset vertical and horizontal reference lines-"clam-shell case"

5.1.3 Definition of the "cheek" position

- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



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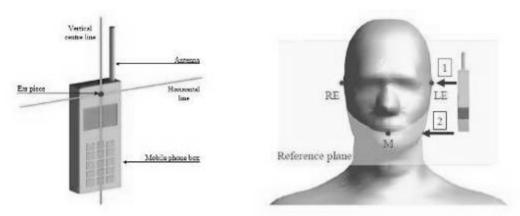
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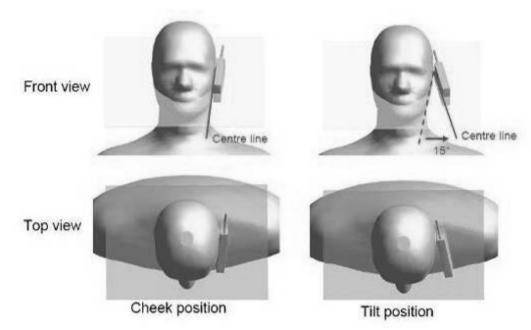
Definition of the "tilted" position 5.1.4

a) Position the device in the "cheek" position described above;

b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. "Cheek" and "tilt" positions of the mobile phone on the left side



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5.2 Body Exposure Condition

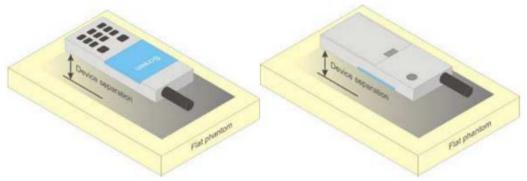
5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

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. Per FCC KDB Publication 648474 D04, Bodyworn 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 Publication 447498 D01 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 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.

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

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices



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5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W \geq 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474D04, 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, the device is marketed as "Phablet". 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 Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, no frequency bands of WWAN need to test with 0mm for the Product Specific 10-g SAR.



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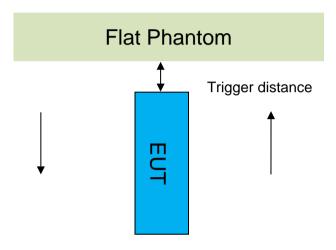
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5.1 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to GSM1900, WCDMA Band II/IV and LTE Band 2/4/7/38. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)					
Position Front side Back/Top/Bottom side					
Minimum	16	20			
Required SAR Test	15	19			

Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



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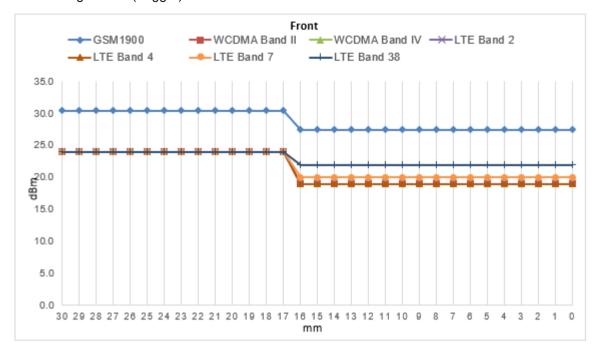
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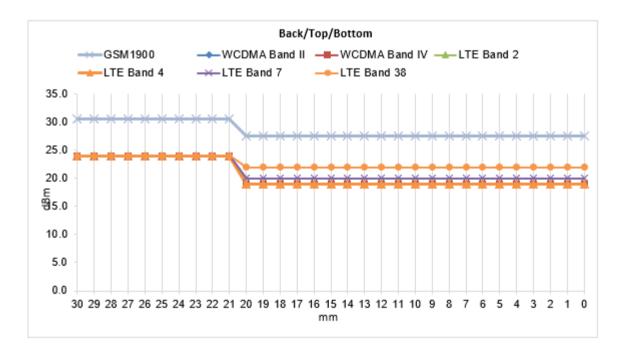


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DUT Moving Toward(Trigger)the Phantom







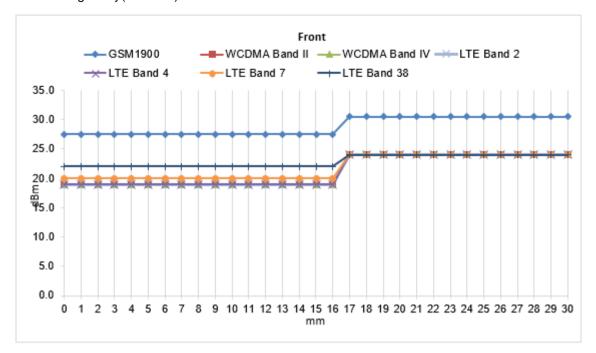
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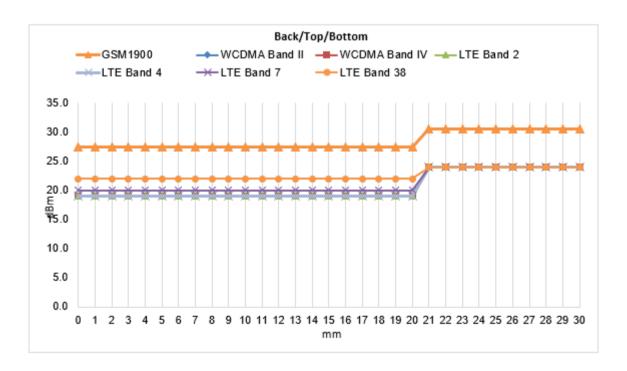


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DUT Moving Away(Release) from the Phantom







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Proximity sensor coverage

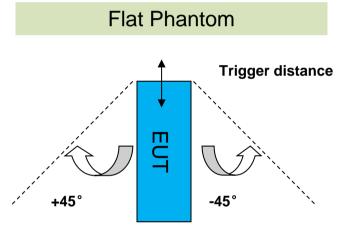
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and "along the direction of maximum antenna and sensor offset".

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at 16mm separation.

Rotating the tablet around the edge next to the phantom in $\leq 10^{\circ}$ increments until the tablet is $\pm 45^{\circ}$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side													
Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
GSM1900	Top/Bottom side:20mm	Top/Bottom side:20mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA Band II	Top/Bottom side:20mm	Top/Bottom side:20mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA Band IV	Top/Bottom side:20mm	Top/Bottom side:20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 2	Top/Bottom side:20mm	Top/Bottom side:20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 4	Top/Bottom side:20mm	Top/Bottom side:20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 7	Top/Bottom side:20mm	Top/Bottom side:20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 38	Top/Bottom side:20mm	Top/Bottom side:20mm	on	on	on	on	on	on	on	on	on	on	on



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

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SAR System Verification Procedure

Tissue Simulate Liquid 6.1

Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients		F	requency (MHz)		
(% by weight)	450	700-900	1750-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85

Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ⁺ resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

Recipe of Tissue Simulate Liquid Table 3:



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6.1.2 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

	Measured	Target Tiss	sue (±5%)	Measure	d Tissue	Liquid	Measured
Tissue Type	Frequency (MHz)	εr	σ(S/m)	εr	σ(S/m)	Temp. (℃)	Date
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.545	0.904	22.1	2021-03-25
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.546	0.905	22.1	2021-03-26
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.456	1.344	22.2	2021-03-27
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.697	1.332	22.2	2021-03-28
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.792	1.390	22.3	2021-03-24
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	39.817	1.363	22.3	2021-03-29
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.865	1.828	22.0	2021-04-06
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.735	1.969	22.1	2021-03-30
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.394	2.005	22.1	2021-03-31
5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	35.501	4.717	22.2	2021-04-04
5600 Head	5600	35.5 (33.73~37.28)	5.07 (4.82~5.32)	34.549	5.104	22.2	2021-04-05
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.185	5.275	22.2	2021-04-05

Measurement result of Tissue electric parameters



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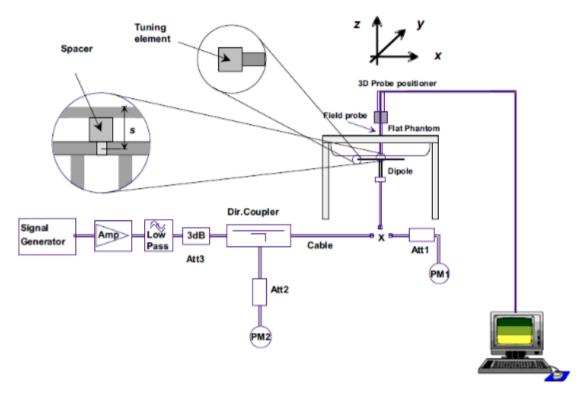


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6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check



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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement:
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Valid	lation Kit	Measured SAR 250mW	SAR 250mW	Measured SAR (normalized to 1W)	` to 1W)	(±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D835V2	Head	2.52	1.64	10.08	6.56	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021-03-25
D835V2	Head	2.53	1.64	10.12	6.56	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021-03-26
D1750V2	Head	8.62	4.65	34.48	18.60	36.3 (32.67~39.93)	19.2 (17.28~21.12)	22.2	2021-03-27
D1750V2	Head	9.51	5.05	38.04	20.20	36.3 (32.67~39.93)	19.2 (17.28~21.12)	22.2	2021-03-28
D1900V2	Head	10.30	5.31	41.20	21.24	39.3 (35.37~43.23)	20.2 (18.18~22.22)	22.3	2021-03-24
D1900V2	Head	10.10	5.22	40.40	20.88	39.3 (35.37~43.23)	20.2 (18.18~22.22)	22.3	2021-03-29
D2450V2	Head	13.30	6.17	53.20	24.68	51.9 (46.71~57.09)	23.8 (21.42~26.18)	22.0	2021-04-06
D2600V2	Head	13.70	6.09	54.80	24.36	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-03-30
D2600V2	Head	13.80	6.18	55.20	24.72	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-03-31
Valid	dation Kit	Measured SAR 100mW	SVD	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
	Head(5.25GHz)	7.96	2.29	79.60	22.90	75.2 (67.68~82.72)		22.2	2021-04-04
D5GHzV2	Head(5.6GHz)	8.47	2.42	84.70	24.20		22.7 (20.43~24.97)	22.2	2021-04-05
	Head(5.75GHz)	7.83	2.23	78.30	22.30	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.2	2021-04-05

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data 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.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode



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7.2.2 WCDMA Test Configuration

1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) . Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

3) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported bodyworn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA / DC-HSDPA

According to 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 ≤ 1/4 dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

HSDPA a)

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(\(\beta_c\) β d), and HS-DPCCH power offset parameters (Δ ACK, Δ NACK, Δ CQI) are set according to values indicated in the following table The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	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

Note1: \triangle ACK. \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β c

Note2: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 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and ΔNACK= 8 (Ahs=30/15) with βhs=30/15*βc,and △CQI=

7 (Ahs=24/15) with βhs=24/15*βc.

Note3: CM=1 forβc/βd =12/15, βhs/βc=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter- TTI Interval	MaximumH S-DSCH Transport BlockBits/HS- DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7: **HSDPA UE category**

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the "WCDMA Handset" and "Release 5 HSUPA Data Device" sections of 3G device.



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Sub -test₽	βee	βd₽	βd (SF)φ	β₀∕β⋴ℴ	β _{hs} (1	β _{ec+} 2	$\beta_{\text{ed}} \varphi$	β _e _{e+1} (SF)+1	βed↔ (code	CM(2)↔ (dB)↔	MP R↓ (dB)↓	AG(4)+/ Inde x+/	E- TFC I+
1₽	11/15(3)+3	15/15(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(64₽	11/15(3)43	22/15₽	209/22 5₽	1039/225	4 0	1₽	1.04	0.0	20₽	75₽
20	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15	94/75₽	4 0	1₽	3.0₽	2.0₽	12 ₀	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ad1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0₽	1.0₽	150	920
40	2/15₽	15/15∉	64₽	2/15₽	4/15₽	2/150	56/75₽	4₽	1₽	3.0∉	2.0₽	17₽	71₽
5₽	15/15(4)43	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	40	1₽	1.0₽	0.0₽	21	81₽

 \triangle ACK, \triangle NACK and \triangle CQI = 8 $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$ $\beta_{hs} = 30/15 * \beta_{e4}$

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference-

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ μ

Note 4: For subtest 5 the β_o/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g ₽

Note 6: βed can not be set directly; it is set by Absolute Grant Value.

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)	
1	1	4	10	4	7110	0.7296	
2	2	8	2	4	2798	1 4500	
2	2	4	10	4	14484	1.4592	
3	2	4	10	4	14484	1.4592	
4	2	8	2	2	5772	2.9185	
4	2	4	10	2	20000	2.00	
5	2	4	10	2	20000	2.00	
6	4	8	10	2SF2&2SF	11484	5.76	
(No DPDCH)	4	4	2	4	20000	2.00	
7	4	8	2	2SF2&2SF	22996	?	
(No DPDCH)	4	4	10	4	20000	?	

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 9: HSUPA UE category



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c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/lor	dB	-10
P-CCPCH and SCH_Ec/lor	dB	-12
PICH _Ec/lor	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/lor	dB	-5
OCNS_Ec/lor	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 10: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

Note:

- 1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
- 2. Maximum number of transmission is limited to 1,i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.



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Inf. Bit Payload	120				
CRC Addition	120	24 CRC			
Code Block Segmentation	144				
Turbo-Encoding (R=1/3)			432	12	Tail Bits
1st Rate Matching			432		
RV Selection [960			
Physical Channel Segmentation	960				

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

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test₽	βc₽	$eta_{\mathbf{d}^\wp}$	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{\omega}}$	β _{hs} (1)	CM(dB)(2)	MPR (dB)
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)₽	24/15₽	1.0₽	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: \triangle ACK, \triangle NACK and \triangle CQI=8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c = 30/15$

Note 2: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 3: 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 $\beta_c=11/15$ and $\beta_d=15/15$.

Up commands are set continuously to set the UE to Max power. Note:

- 1. The Dual Carriers transmission only applies to HSDPA physical channels
- 2. The Dual Carriers belong to the same Node and are on adjacent carriers.
- 3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
- 4. The Dual Carriers operate in the same frequency band.
- 5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
- 6. The device doesn't support carrier aggregation for it just can operate in Release 8.



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d) HSPA+

Per KDB941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

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

• Sub- test∉	β _c (Note3)	βd∻	β _{HS} ↓ (Note1)↓	β _{ec} ₊/	β _{ed} ↓ (2xSF2) ↓			1	Index⊍		
					(Note 4)₽	(Note 4)₽	(Note 2)⊹	(Note 2)⊹	(Note 4)₽		
• 1₽	1₽	0↔	30/15₽	30/15	βed1: 30/15↔	βed3: 24/15↔	3.5₽	2.5₽	14₽	105₽	105₽
					βed2: 30/15₽	βed4: 24/15₽					

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

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

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

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

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



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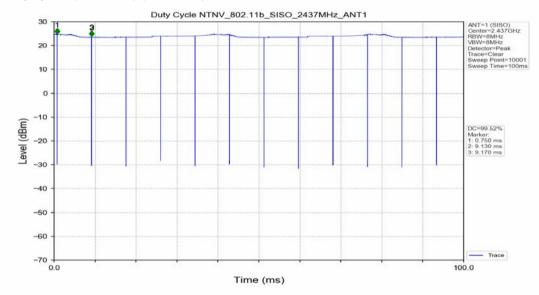
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7.2.3 WiFi Test Configuration

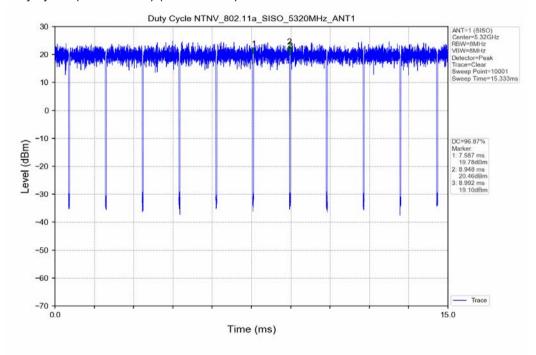
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b: Duty cycle=(9.13-0.75)/(9.17-0.75)=99.52%



2) Wi-Fi 5GHz 802.11a: Duty cycle=(8.948-7.587)/(8.992-7.587)=96.87%





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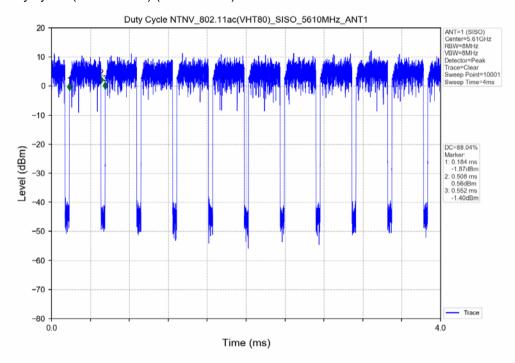
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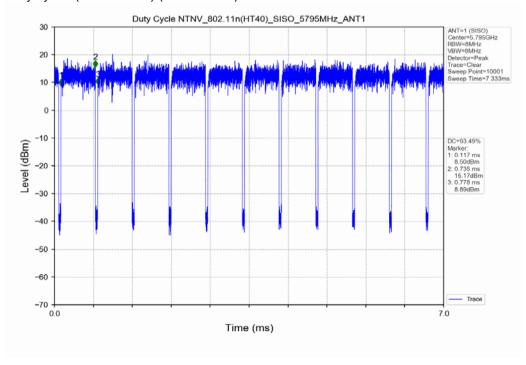
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3) Wi-Fi 5GHz 802.11ac 80M: Duty cycle=(0.508-0.184)/(0.552-0.184)=88.04%



Wi-Fi 5GHz 802.11n 40: Duty cycle=(0.735-0.117)/(0.778-0.117)=93.49%





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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.2.3.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

 When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.



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2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"



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7.2.3.5 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11q/n OFDM configurations are described in following.

802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11q/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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7.2.3.6 5 GHz WiFi SAR Procedures

U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s). SAR test reduction is determined according to the following:

- When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



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OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - The channel closest to mid-band frequency is selected for SAR measurement.
 - For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8821C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

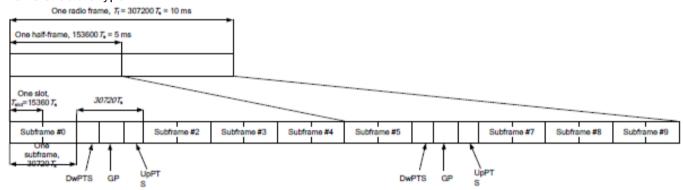
TDD LTE test consideration

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:





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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special		nal cyclic prefix in	downlink		Extended cyclic prefix in downlink			
subframe	DwPTS	Up	PTS	DwPTS	UpPTS			
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		
0	6592.Ts			7680.Ts				
1	19760.Ts			20480.Ts	2192.Ts	2560.Ts		
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.15	2560.18		
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4204 To	5120 To		
6	19760.Ts			23040.Ts	4384.Ts	5120.Ts		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts			-	-	-		
9	13168.Ts			-	-	-		

Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				St	ubframe	e numb	er			
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	J	U	D	S	U	U	D

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink- Downlink Configurat	Downlink-to- Uplink Switch- point Periodicity		Subframe Number						Calculated Duty Cycle (%)			
ion	point i oriodiony	0	1	2	3	4	5	6	7	8	9	Gy 0.0 (70)
0	5 ms	D	S	U	U	U	D	S	J	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	C	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	J	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33



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A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Cha	nnel bandw	idth / Tra	ansmission	bandwidth ((N _{RB})	MPR (dB)
	1.4	3.0	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

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 in 1) and 2) 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) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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Test Result 8

Measurement of RF Conducted Power 8.1

8.1.1 Conducted Power of Main Antenna(Ant1)

8.1.1.1 Conducted Power of GSM

				G	SM 850						
Bu	rst Output Po	wer(dBn	n)		Tune Division		-Average ower(dBn	•	Tune		
Chann	iel	128	190	251	up	up Factors		38	124	up	
GSM(GMSK)	GSM	32.64	32.56	32.55	33.50	-9.19	23.45	23.37	23.36	24.31	
	1 TX Slot	32.57	32.59	32.58	33.50	-9.19	23.38	23.4	23.39	24.31	
GPRS/EGPRS	2 TX Slots	30.92	30.99	30.91	31.00	-6.18	24.74	24.81	24.73	24.82	
(GMSK)	3 TX Slots	29.24	29.31	29.39	29.50	-4.42	24.82	24.89	24.97	25.08	
	4 TX Slots	27.39	27.39	27.46	27.50	-3.17	24.22	24.22	24.29	24.33	
	1 TX Slot	26.94	26.88	26.95	28.00	-9.19	17.75	17.69	17.76	18.81	
ECDRS(8DSK) 2 TX Slots		25.38	25.32	25.42	25.50	-6.18	19.2	19.14	19.24	19.32	
EGPRS(8PSK)	3 TX Slots	23.71	23.75	23.80	24.00	-4.42	19.29	19.33	19.38	19.58	
	4 TX Slots	22.14	22.11	22.19	22.50	-3.17	18.97	18.94	19.02	19.33	



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				GSM 19	000 Sens	or off				
Bu	rst Output Po	wer(dBn	n)		Tune	Division	Frame-Average Output Power(dBm)			Tune
Chann	nel	512	661	810	up	Factors	512	698	885	up
GSM(GMSK)	GSM	29.56	29.63	29.74	30.50	-9.19	20.37	20.44	20.55	21.31
	1 TX Slot	29.61	29.67	29.65	30.50	-9.19	20.42	20.48	20.46	21.31
GPRS/EGPRS	2 TX Slots	27.58	27.66	27.68	28.00	-6.18	21.4	21.48	21.5	21.82
(GMSK)	3 TX Slots	26.05	26.05	26.10	26.50	-4.42	21.63	21.63	21.68	22.08
	4 TX Slots	24.54	24.60	24.64	25.00	-3.17	21.37	21.43	21.47	21.83
	1 TX Slot	25.87	25.84	25.82	27.00	-9.19	16.68	16.65	16.63	17.81
2 TX Slots		24.40	24.30	24.30	25.50	-6.18	18.22	18.12	18.12	19.32
EGPRS(8PSK)	3 TX Slots	22.61	22.67	22.60	24.00	-4.42	18.19	18.25	18.18	19.58
	4 TX Slots	20.94	21.00	21.02	22.50	-3.17	17.77	17.83	17.85	19.33

				GSM 19	000 Sens	or on				
Bu	rst Output Po	wer(dBn	n)		Tune	Division		-Average ower(dBm		Tune
Chann	nel	512	661	810	up	Factors	512	698	885	up
GSM(GMSK)	GSM	27.00	27.16	27.33	27.50	-9.19	17.81	17.97	18.14	18.31
	1 TX Slot	27.29	27.19	27.17	27.50	-9.19	18.1	18	17.98	18.31
GPRS/EGPRS	2 TX Slots	24.63	24.62	24.55	25.00	-6.18	18.45	18.44	18.37	18.82
(GMSK)	3 TX Slots	23.14	23.12	23.08	23.50	-4.42	18.72	18.7	18.66	19.08
	4 TX Slots	21.70	21.60	21.50	22.00	-3.17	18.53	18.43	18.33	18.83
	1 TX Slot	25.99	25.94	26.03	27.00	-9.19	16.8	16.75	16.84	17.81
ECDDS(ODSK)	2 TX Slots	24.04	24.00	23.95	25.00	-6.18	17.86	17.82	17.77	18.82
EGPRS(8PSK)	3 TX Slots	22.30	22.30	22.39	23.50	-4.42	17.88	17.88	17.97	19.08
	4 TX Slots	20.72	20.64	20.60	22.00	-3.17	17.55	17.47	17.43	18.83

Table 11: Conducted Power of GSM Note:

1) . CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used



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8.1.1.2 Conducted Power of WCDMA

	WCDMA	Band II Sensor	off		
	Average Co	nducted Power((dBm)		
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	22.93	22.83	22.90	24.00
VVCDIVIA	12.2kbps AMR	22.81	22.75	22.80	24.00
	Subtest 1	21.45	21.38	21.46	22.50
HSDPA	Subtest 2	21.40	21.27	21.38	22.50
ПОДРА	Subtest 3	21.36	21.27	21.35	22.50
	Subtest 4	21.26	21.23	21.29	22.50
	Subtest 1	20.38	20.25	20.39	21.50
	Subtest 2	20.28	20.18	20.27	21.50
HSUPA	Subtest 3	20.41	20.27	20.39	21.50
	Subtest 4	20.29	20.24	20.26	21.50
	Subtest 5	20.51	20.42	20.49	21.50
	Subtest 1	21.52	21.35	21.43	22.50
DC-HSDPA	Subtest 2	21.32	21.32	21.32	22.50
DC-HODFA	Subtest 3	21.38	21.31	21.36	22.50
	Subtest 4	21.22	21.23	21.26	22.50
HSPA+	16QAM	20.35	20.27	20.36	21.50

	WCDMA	Band II Sensor	on		
	Average Co	nducted Power((dBm)		
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	18.00	17.92	17.96	19.00
VVCDIVIA	12.2kbps AMR	17.98	17.91	17.94	19.00
	Subtest 1	17.91	17.83	17.95	19.00
HCDDA	Subtest 2	17.96	17.89	17.91	19.00
HSDPA -	Subtest 3	18.06	17.95	17.97	19.00
	Subtest 4	18.05	17.95	17.98	19.00
	Subtest 1	17.99	17.91	17.88	19.00
	Subtest 2	17.90	17.87	17.91	19.00
HSUPA	Subtest 3	17.99	17.87	17.91	19.00
	Subtest 4	17.89	17.84	17.91	19.00
	Subtest 5	18.06	17.96	17.98	19.00
	Subtest 1	17.92	17.90	17.91	19.00
DC-HSDPA	Subtest 2	17.91	17.88	17.90	19.00
שאמפח-טמ	Subtest 3	17.93	17.87	17.92	19.00
	Subtest 4	17.97	17.87	17.91	19.00
HSPA+	16QAM	17.73	17.84	17.82	19.00



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	WCDMA	Band IV Sensor	off		
	Average Co	nducted Power((dBm)		
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	22.87	22.85	22.68	24.00
WCDIVIA	12.2kbps AMR	22.77	22.72	22.59	24.00
	Subtest 1	21.41	21.36	21.23	22.50
HCDDA	Subtest 2	21.36	21.31	21.13	22.50
HSDPA	Subtest 3	21.36	21.30	21.14	22.50
	Subtest 4	21.25	21.17	21.00	22.50
	Subtest 1	20.34	20.33	20.16	21.50
	Subtest 2	20.19	20.14	20.04	21.50
HSUPA	Subtest 3	20.34	20.27	20.10	21.50
	Subtest 4	20.18	20.18	20.05	21.50
	Subtest 5	20.39	20.40	20.19	21.50
	Subtest 1	21.42	21.43	21.22	22.50
DC HCDDA	Subtest 2	21.33	21.31	21.15	22.50
DC-HSDPA	Subtest 3	21.36	21.27	21.17	22.50
	Subtest 4	21.21	21.18	21.07	22.50
HSPA+	16QAM	20.27	20.31	20.23	21.50

	WCDMA	Band IV Sensor	on		
	Average Co	nducted Power	(dBm)		
Channel		1312	1412	1513	Tune up
WCDMA -	12.2kbps RMC	17.88	17.82	17.79	19.00
WCDIVIA	12.2kbps AMR	17.79	17.71	17.70	19.00
	Subtest 1	17.86	17.80	17.72	19.00
HSDPA -	Subtest 2	17.73	17.67	17.66	19.00
ПОДРА	Subtest 3	17.89	17.89	17.82	19.00
	Subtest 4	17.81	17.75	17.71	19.00
	Subtest 1	17.87	17.76	17.70	19.00
	Subtest 2	17.74	17.67	17.68	19.00
HSUPA	Subtest 3	17.81	17.78	17.74	19.00
	Subtest 4	17.73	17.65	17.65	19.00
	Subtest 5	17.94	17.83	17.88	19.00
	Subtest 1	17.82	17.78	17.74	19.00
DC-HSDPA	Subtest 2	17.74	17.68	17.67	19.00
DO-HODPA	Subtest 3	17.79	17.77	17.74	19.00
	Subtest 4	17.76	17.64	17.62	19.00
HSPA+	16QAM	17.83	17.78	17.74	19.00



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	WC	DMA Band V			
	Average Co	nducted Power	(dBm)		
Channel		4132	4182	4233	Tune up
MCDMA	12.2kbps RMC	22.79	22.67	22.82	24.00
WCDMA	12.2kbps AMR	22.70	22.58	22.71	24.00
	Subtest 1	21.30	21.24	21.33	22.50
HCDDA	Subtest 2	21.29	21.10	21.23	22.50
HSDPA	Subtest 3	21.20	21.12	21.31	22.50
	Subtest 4	21.14	20.99	21.17	22.50
	Subtest 1	20.23	20.10	20.29	21.50
	Subtest 2	20.19	20.06	20.16	21.50
HSUPA	Subtest 3	20.24	20.10	20.25	21.50
	Subtest 4	20.19	20.00	20.17	21.50
	Subtest 5	20.37	20.21	20.33	21.50
	Subtest 1	21.32	21.18	21.39	22.50
	Subtest 2	21.23	21.17	21.22	22.50
DC-HSDPA	Subtest 3	21.28	21.16	21.31	22.50
	Subtest 4	21.19	21.05	21.14	22.50
HSPA+	16QAM	20.21	20.17	20.25	21.50

Conducted Power of WCDMA Table 12:



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8.1.1.3 Conducted Power of LTE

	LTE Band 2 S	ensor off		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Dariawidari	modulation			18607	18900	19193	•	
		1	0	22.56	22.48	22.48	24.00	
		1	2	22.46	22.66	22.52	24.00	
		1	5	22.45	22.56	22.37	24.00	
	QPSK	3	0	22.36	22.46	22.54	24.00	
		3	1	22.49	22.40	22.30	24.00	
		3	3	22.37	22.56	22.36	24.00	
1.4MHz		6	0	21.66	21.65	21.51	23.00	
1.41011 12		1	0	21.96	21.89	21.84	23.00	
		1	2	21.69	21.64	21.79	23.00	
		1	5	21.69	21.76	21.67	23.00	
	16QAM	3	0	21.25	21.35	21.47	23.00	
		3	1	21.30	21.40	21.41	23.00	
		3	3	21.48	21.34	21.42	23.00	
		6	0	20.70	20.56	20.59	22.00	
Dana alice dalah	Modulation	a desirable Mandellation	DD -:	DD - (()	Channel	Channel	Channel	Tune un
Bandwidth	Modulation	RB size	RB offset	18615	18900	19185	Tune up	
		1	0	22.61	22.42	22.53	24.00	
		1	7	22.51	22.74	22.65	24.00	
		1	14	22.46	22.52	22.57	24.00	
	QPSK	8	0	21.58	21.48	21.58	23.00	
		8	4	21.58	21.68	21.62	23.00	
		8	7	21.57	21.72	21.44	23.00	
OM1.1-		15	0	21.66	21.62	21.58	23.00	
3MHz		1	0	21.90	21.92	22.00	23.00	
		1	7	21.81	21.60	21.84	23.00	
		1	14	21.79	21.82	21.79	23.00	
	16QAM	8	0	20.43	20.58	20.65	22.00	
		8	4	20.57	20.50	20.47	22.00	
		8	7	20.57	20.62	20.61	22.00	
		15	0	20.68	20.58	20.57	22.00	
				Channel	Channel	Channel		
Bandwidth	Modulation	RB size	RB offset	18625	18900	19175	Tune up	
		1	0	22.63	22.62	22.59	24.00	
		1	13	22.48	22.59	22.55	24.00	
		1	24	22.51	22.49	22.49	24.00	
	QPSK	12	0	21.57	21.66	21.73	23.00	
5MHz		12	6	21.62	21.69	21.62	23.00	
		12	13	21.74	21.69	21.45	23.00	
		25	0	21.56	21.66	21.54	23.00	
	16QAM	1	0	21.84	21.91	21.85	23.00	



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1		1 1	13	21.80	21.72	21.97	23.00
		1	24	21.77	21.76	21.71	23.00
		12	0	20.56	20.63	20.64	22.00
		12	6	20.54	20.53	20.60	22.00
		12	13	20.58	20.55	20.42	22.00
		25	0	20.51	20.67	20.58	22.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	22.58	22.55	22.61	24.00
		1	50	22.65	22.67	22.55	24.00
		1	99	22.58	22.38	22.45	24.00
	QPSK	50	0	21.66	21.67	21.58	23.00
		50	25	21.61	21.70	21.49	23.00
		50	50	21.56	21.75	21.55	23.00
401411		100	0	21.72	21.61	21.55	23.00
10MHz		1	0	21.92	21.95	21.85	23.00
		1	50	21.72	21.67	21.85	23.00
		1	99	21.64	21.73	21.67	23.00
	16QAM	50	0	20.39	20.61	20.49	22.00
		50	25	20.45	20.66	20.55	22.00
		50	50	20.73	20.63	20.43	22.00
		100	0	20.69	20.51	20.51	22.00
Dana ali collable	Madulatian	DD -:	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	22.64	22.52	22.55	24.00
		1	38	22.56	22.65	22.61	24.00
	QPSK	1	74	22.52	22.47	22.47	24.00
		36	0	21.65	21.58	21.65	23.00
		36	18	21.63	21.66	21.56	23.00
		36	39	21.64	21.69	21.53	23.00
15MHz		75	0	21.65	21.62	21.57	23.00
13IVII 12		1	0	21.93	21.99	21.92	23.00
		1	38	21.78	21.69	21.88	23.00
		1	74	21.70	21.74	21.70	23.00
	16QAM	36	0	20.46	20.58	20.57	22.00
		36	18	20.53	20.60	20.54	22.00
		36	39	20.64	20.60	20.52	22.00
		75	0	20.61	20.61	20.54	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
- Danamati	cadiation	1.00020		18700	18900	19100	•
		1	0	22.38	22.50	22.30	24.00
		1	50	22.63	22.56	22.71	24.00
		1	99	22.35	22.29	22.39	24.00
20MHz	QPSK	50	0	21.42	21.50	21.57	23.00
		50	25	21.64	21.62	21.57	23.00
		50	50	21.57	21.53	21.40	23.00
		100	0	21.53	21.50	21.51	23.00



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	1	0	21.72	21.60	21.33	23.00
	1	50	21.58	21.55	21.70	23.00
	1	99	21.73	21.53	21.80	23.00
16QAM	50	0	20.50	20.50	20.54	22.00
	50	25	20.50	20.61	20.57	22.00
	50	50	20.41	20.48	20.34	22.00
	100	0	20.39	20.47	20.50	22.00

	LTE Band 2 S	Sensor on			Conducted I	Power(dBm)	
D1-146	Madaca	DD -: -	DD - (' 1	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up
		1	0	17.46	17.50	17.49	19.00
		1	2	17.23	17.19	17.13	19.00
		1	5	17.50	17.54	17.61	19.00
	QPSK	3	0	17.32	17.25	17.16	19.00
		3	1	17.67	17.77	17.83	19.00
		3	3	17.21	17.14	17.21	19.00
1.4MHz		6	0	17.62	17.52	17.57	19.00
1.4IVIHZ		1	0	17.51	17.57	17.67	19.00
		1	2	17.51	17.55	17.51	19.00
		1	5	17.40	17.50	17.56	19.00
	16QAM	3	0	17.58	17.61	17.70	19.00
		3	1	17.46	17.47	17.54	19.00
		3	3	17.78	17.68	17.65	19.00
		6	0	17.35	17.35	17.27	19.00
Dana ali sul altila	Modulation	DD -:	DD -#	Channel	Channel	Channel	T
Bandwidth		RB size	RB offset	18615	18900	19185	Tune up
		1	0	17.43	17.33	17.28	19.00
		1	7	17.41	17.34	17.40	19.00
		1	14	17.43	17.40	17.47	19.00
	QPSK	8	0	17.21	17.31	17.30	19.00
		8	4	17.75	17.83	17.80	19.00
		8	7	17.39	17.40	17.38	19.00
3MHz		15	0	17.54	17.60	17.67	19.00
SIVITZ		1	0	17.41	17.34	17.33	19.00
		1	7	17.53	17.62	17.64	19.00
		1	14	17.27	17.26	17.23	19.00
	16QAM	8	0	17.56	17.59	17.69	19.00
		8	4	17.54	17.54	17.49	19.00
		8	7	17.80	17.70	17.31	19.00
		15	0	17.26	17.17	17.17	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
CNA!!	00014	1	0	17.44	17.49	17.39	19.00
5MHz	QPSK	1	13	17.37	17.40	17.46	19.00



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		1 1	24	17.63	17.58	17.59	19.00
		12	0	17.23	17.17	17.15	19.00
		12	6	17.70	17.66	17.72	19.00
		12	13	17.27	17.37	17.32	19.00
		25	0	17.53	17.57	17.66	19.00
		1	0	17.42	17.42	17.41	19.00
		1	13	17.45	17.41	17.48	19.00
		1	24	17.40	17.48	17.51	19.00
	16QAM	12	0	17.41	17.44	17.37	19.00
		12	6	17.48	17.51	17.50	19.00
		12	13	17.60	17.62	17.58	19.00
		25	0	17.37	17.42	17.44	19.00
D - 1 240	NA - I I - C	DD -:	DD - (' 1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	17.56	17.65	17.61	19.00
		1	50	17.23	17.24	17.18	19.00
		1	99	17.57	17.59	17.50	19.00
	QPSK	50	0	17.21	17.21	17.18	19.00
		50	25	17.67	17.60	17.57	19.00
		50	50	17.33	17.39	17.38	19.00
40141-		100	0	17.54	17.62	17.71	19.00
10MHz		1	0	17.49	17.43	17.40	19.00
		1	50	17.35	17.29	17.23	19.00
		1	99	17.38	17.45	17.54	19.00
	16QAM	50	0	17.50	17.53	17.56	19.00
		50	25	17.57	17.64	17.58	19.00
		50	50	17.55	17.54	17.42	19.00
		100	0	17.35	17.39	17.48	19.00
Dondwidth	Modulation	DP oizo	RB offset	Channel	Channel	Channel	Tuna un
Bandwidth	Modulation	RB size	RD Ollset	18675	18900	19125	Tune up
		1	0	17.40	17.41	17.31	19.00
		1	38	17.35	17.44	17.52	19.00
		1	74	17.44	17.44	17.41	19.00
	QPSK	36	0	17.23	17.15	17.21	19.00
		36	18	17.70	17.62	17.68	19.00
		36	39	17.38	17.36	17.26	19.00
15MHz		75	0	17.54	17.51	17.61	19.00
TOMICE		1	0	17.46	17.40	17.34	19.00
		1	38	17.48	17.43	17.35	19.00
		1	74	17.33	17.41	17.32	19.00
	16QAM	36	0	17.57	17.49	17.40	19.00
		36	18	17.51	17.55	17.52	19.00
		36	39	17.40	17.45	17.41	19.00
		75	0	17.23	17.15	17.11	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
Danuwiuin	iviouulatioi1	VD SIZE	VD 011261	18700	18900	19100	Tune up
20MHz	QPSK	1	0	17.45	17.47	17.50	19.00



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i		1 4	I 50	47.05	47.44	47.50	10.00
		1	50	17.35	17.41	17.53	19.00
		1	99	17.44	17.48	17.32	19.00
		50	0	17.36	17.28	17.28	19.00
		50	25	17.44	17.65	17.75	19.00
		50	50	17.36	17.37	17.29	19.00
		100	0	17.50	17.46	17.55	19.00
		1	0	17.53	17.47	17.51	19.00
		1	50	17.42	17.35	17.44	19.00
		1	99	17.50	17.32	17.33	19.00
	16QAM	50	0	17.38	17.42	17.48	19.00
	50	25	17.69	17.47	17.51	19.00	
		50	50	17.45	17.39	17.70	19.00
		100	0	17.42	17.37	17.30	19.00

	LTE Band 4 S	ensor off		Conducted Power(dBm)			
D 1 - 1-10-	Maril India	DD -: -	DD - (' 1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up
		1	0	22.63	22.73	22.74	24.00
		1	2	22.72	22.77	22.82	24.00
		1	5	22.70	22.75	22.77	24.00
	QPSK	3	0	22.51	22.51	22.44	24.00
		3	1	22.54	22.55	22.56	24.00
		3	3	22.35	22.34	22.33	24.00
1.4MHz		6	0	21.69	21.63	21.53	23.00
1.410172		1	0	21.83	21.73	21.79	23.00
		1	2	21.87	21.84	21.88	23.00
		1	5	21.79	21.77	21.68	23.00
	16QAM	3	0	21.53	21.62	21.59	23.00
		3	1	21.48	21.48	21.48	23.00
		3	3	21.53	21.51	21.41	23.00
		6	0	20.57	20.50	20.47	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	iviodulation	ND SIZE	VD 011261	19965	20175	20385	Turie up
		1	0	22.45	22.50	22.53	24.00
		1	7	22.63	22.67	22.70	24.00
		1	14	22.66	22.73	22.71	24.00
	QPSK	8	0	21.63	21.72	21.63	23.00
		8	4	21.81	21.90	21.90	23.00
3MHz		8	7	21.57	21.64	21.69	23.00
JIVII IZ		15	0	21.53	21.54	21.48	23.00
		1	0	21.73	21.76	21.71	23.00
		1	7	21.56	21.46	21.76	23.00
	16QAM	1	14	21.59	21.51	21.41	23.00
		8	0	20.55	20.48	20.46	22.00
		8	4	20.74	20.81	20.91	22.00



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		8	7	20.63	20.57	20.53	22.00
		15	0	20.64	20.70	20.66	22.00
5			55 "	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	22.58	22.65	22.63	24.00
		1	13	22.59	22.50	22.59	24.00
		1	24	22.67	22.76	22.71	24.00
	QPSK	12	0	21.76	21.70	21.75	23.00
		12	6	21.70	21.77	21.80	23.00
		12	13	21.63	21.53	21.56	23.00
		25	0	21.55	21.47	21.50	23.00
5MHz		1	0	21.91	21.92	21.93	23.00
		1	13	21.91	21.91	21.88	23.00
		1	24	21.78	21.92	21.95	23.00
	16QAM	12	0	20.66	20.73	20.73	22.00
		12	6	20.61	20.66	20.65	22.00
		12	13	20.68	20.76	20.78	22.00
		25	0	20.66	20.64	20.56	22.00
Down alveidable	Modulation	DD ai-a	DD offeet	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	22.61	22.54	22.60	24.00
		1	50	22.70	22.61	22.61	24.00
		1	99	22.67	22.76	22.81	24.00
	QPSK	50	0	21.78	21.87	21.79	23.00
		50	25	21.78	21.76	21.75	23.00
		50	50	21.56	21.65	21.70	23.00
10MHz		100	0	21.66	21.76	21.73	23.00
TUIVITZ		1	0	21.72	21.74	21.66	23.00
		1	50	21.92	21.87	21.86	23.00
		1	99	21.95	21.74	21.91	23.00
	16QAM	50	0	20.65	20.66	20.70	22.00
		50	25	20.66	20.67	20.60	22.00
		50	50	20.68	20.76	20.81	22.00
		100	0	20.59	20.61	20.70	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Modulation	ND Size	ND Ollset	20025	20175	20325	Turie up
		1	0	22.61	22.71	22.54	24.00
		1	38	22.66	22.71	22.66	24.00
		1	74	22.50	22.60	22.62	24.00
	QPSK	36	0	21.73	21.67	21.73	23.00
		36	18	21.73	21.78	21.78	23.00
15MHz		36	39	21.71	21.70	21.64	23.00
		75	0	21.78	21.68	21.62	23.00
		1	0	21.91	21.89	21.81	23.00
	16QAM	1	38	21.96	21.82	21.92	23.00
	IOQAW	1	74	21.75	21.73	21.86	23.00
		36	0	20.71	20.69	20.63	22.00



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	I	36	18	20.75	20.65	20.71	22.00
		36	39	20.61	20.67	20.67	22.00
		75	0	20.72	20.72	20.61	22.00
5	Modulation	RB size	55 "	Channel	Channel	Channel	_
Bandwidth			RB offset	20050	20175	20300	Tune up
		1	0	22.54	22.60	22.58	24.00
		1	50	22.64	22.57	22.48	24.00
		1	99	22.65	22.73	22.70	24.00
	QPSK	50	0	21.75	21.78	21.84	23.00
		50	25	21.70	21.75	21.73	23.00
		50	50	21.74	21.74	21.75	23.00
20MHz		100	0	21.65	21.60	21.60	23.00
ZUIVITZ		1	0	21.88	21.89	21.82	23.00
		1	50	21.94	21.98	21.93	23.00
		1	99	21.77	21.68	21.56	23.00
	16QAM	50	0	20.71	20.61	20.64	22.00
		50	25	20.70	20.72	20.81	22.00
		50	50	20.66	20.72	20.73	22.00
		100	0	20.57	20.55	20.45	22.00

	LTE Band 4 S	ensor on		Conducted Power(dBm)				
Dana dani dala	Madulatian	DD sins	DD -#+	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up	
		1	0	17.48	17.58	17.56	19.00	
		1	2	17.58	17.54	17.69	19.00	
		1	5	17.80	17.71	17.73	19.00	
	QPSK	3	0	17.56	17.73	17.62	19.00	
		3	1	17.79	17.68	17.68	19.00	
		3	3	17.89	17.93	17.85	19.00	
1.4MHz		6	0	17.29	17.22	17.34	19.00	
1.4101112		1	0	17.45	17.55	17.49	19.00	
	16QAM	1	2	17.72	17.66	17.58	19.00	
		1	5	17.81	17.80	17.66	19.00	
		3	0	17.72	17.67	17.69	19.00	
		3	1	17.64	17.72	17.65	19.00	
		3	3	17.53	17.47	17.64	19.00	
		6	0	17.88	17.71	17.83	19.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Dariuwiuiri	iviodulation	KD SIZE	KD Ollset	19965	20175	20385	Tune up	
		1	0	17.40	17.42	17.54	19.00	
		1	7	17.63	17.54	17.55	19.00	
3MHz	QPSK	1	14	17.85	17.75	17.71	19.00	
SIVITIZ	QF3N	8	0	17.63	17.62	17.64	19.00	
		8	4	17.73	17.60	17.72	19.00	
		8	7	17.83	17.95	17.81	19.00	



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	1	15	0	17.39	17.47	17.34	19.00
		1	0	17.56	17.53	17.53	19.00
	16QAM	1	7	17.64	17.65	17.73	19.00
		1	14	17.74	17.86	17.71	19.00
		8	0	17.74	17.64	17.74	19.00
		8	4	17.70	17.74	17.75	19.00
		8	7	17.50	17.55	17.56	19.00
		15	0	17.75	17.85	17.67	19.00
<u> </u>				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
5MHz	QPSK	1	0	17.52	17.56	17.53	19.00
		1	13	17.66	17.70	17.66	19.00
		1	24	17.75	17.70	17.81	19.00
		12	0	17.61	17.68	17.72	19.00
		12	6	17.80	17.56	17.70	19.00
		12	13	17.92	18.03	17.93	19.00
		25	0	17.36	17.51	17.41	19.00
	16QAM	1	0	17.50	17.51	17.55	19.00
		1	13	17.62	17.58	17.67	19.00
		1	24	17.79	17.86	17.80	19.00
		12	0	17.71	17.63	17.84	19.00
		12	6	17.70	17.61	17.60	19.00
		12	13	17.60	17.54	17.47	19.00
		25	0	17.71	17.73	17.65	19.00
Dana alice dalla	Madulatian	DD -:	DD - (()	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
10MHz	QPSK	1	0	17.39	17.56	17.39	19.00
		1	50	17.65	17.61	17.63	19.00
		1	99	17.74	17.77	17.81	19.00
		50	0	17.63	17.72	17.72	19.00
		50	25	17.64	17.69	17.66	19.00
		50	50	17.97	17.93	17.92	19.00
		100	0	17.42	17.46	17.44	19.00
	16QAM	1	0	17.43	17.59	17.64	19.00
		1	50	17.72	17.56	17.59	19.00
		1	99	17.75	17.92	17.65	19.00
		50	0	17.72	17.73	17.84	19.00
		50	25	17.70	17.70	17.73	19.00
		50	50	17.60	17.45	17.46	19.00
		100	0	17.72	17.88	17.72	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	17.48	17.47	17.46	19.00
		1	38	17.58	17.57	17.59	19.00
		1	74	17.83	17.84	17.63	19.00
		36	0	17.71	17.60	17.68	19.00



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i	I	Í	i	i	i		1
		36	39	17.76	17.70	17.86	19.00
		75	0	17.29	17.42	17.39	19.00
		1	0	17.50	17.60	17.57	19.00
		1	38	17.60	17.66	17.60	19.00
		1	74	17.82	17.82	17.68	19.00
	16QAM	36	0	17.66	17.77	17.84	19.00
	-	36	18	17.60	17.74	17.83	19.00
		36	39	17.50	17.61	17.58	19.00
		75	0	17.81	17.75	17.81	19.00
Dondwidth	Modulation	DP oizo	DP offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	17.43	17.51	17.47	19.00
		1	50	17.68	17.62	17.62	19.00
		1	99	17.75	17.80	17.72	19.00
	QPSK	50	0	17.64	17.63	17.65	19.00
		50	25	17.72	17.62	17.73	19.00
		50	50	17.93	17.90	17.90	19.00
20MHz		100	0	17.58	17.64	17.54	19.00
ZUIVITZ		1	0	17.49	17.50	17.54	19.00
	16QAM	1	50	17.66	17.65	17.68	19.00
		1	99	17.76	17.86	17.71	19.00
		50	0	17.75	17.72	17.78	19.00
		50	25	17.69	17.66	17.66	19.00
		50	50	17.56	17.52	17.56	19.00
		100	0	17.80	17.81	17.75	19.00

	LTE Ban	nd 5		Conducted Power(dBm)				
Dondwidth	Modulation	RB size	DD offeet	Channel	Channel	Channel	Tungun	
Bandwidth	Modulation	RD SIZE	RB offset	20407	20525	20643	Tune up	
		1	0	23.05	23.04	23.02	24.50	
		1	2	23.17	23.20	23.45	24.50	
		1	5	23.09	23.10	23.20	24.50	
	QPSK	3	0	23.15	22.96	23.18	24.50	
		3	2	23.09	23.12	23.04	24.50	
		3	3	23.04	22.93	22.92	24.50	
4 48411-		6	0	22.36	22.13	22.29	23.50	
1.4MHz		1	0	22.19	22.22	22.33	23.50	
		1	2	22.46	22.55	22.39	23.50	
		1	5	22.17	22.25	22.59	23.50	
	16QAM	3	0	22.31	22.00	22.11	23.50	
			2	22.00	22.02	22.07	23.50	
		3	3	22.14	21.93	22.03	23.50	
		6	0	21.11	21.20	21.40	22.50	
Dondwidth	Modulation	DP oize	DP offect	Channel	Channel	Channel	Tungur	
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up	



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I	I	1	l 6	l 00.00	1 00 00	00.05	0450
		1	0	23.03	23.08	23.05	24.50
		1	7	23.09	23.31	23.42	24.50
		1	14	23.02	23.04	23.22	24.50
	QPSK	8	0	22.30	22.12	22.45	23.50
		8	4	22.35	22.29	22.18	23.50
		8	7	22.24	22.10	22.07	23.50
3MHz		15	0	22.34	22.12	22.22	23.50
0.0.1.2		1	0	22.00	22.11	22.29	23.50
		1	7	22.30	22.38	22.44	23.50
		1	14	22.09	22.25	22.48	23.50
	16QAM	8	0	21.08	21.04	21.46	22.50
		8	4	21.25	21.18	21.21	22.50
		8	7	21.23	21.29	21.21	22.50
		15	0	21.24	21.04	21.36	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwiuin	Modulation	ND SIZE	VD 011261	20425	20525	20625	Turie up
		1	0	23.17	23.06	22.97	24.50
		1	13	23.11	23.29	23.27	24.50
		1	24	23.00	23.05	23.09	24.50
	QPSK	12	0	22.18	22.18	22.35	23.50
		12	6	22.27	22.14	22.28	23.50
		12	13	22.40	22.15	22.18	23.50
CN41.1-		25	0	22.17	22.26	22.24	23.50
5MHz		1	0	22.18	22.26	22.29	23.50
		1	13	22.37	22.49	22.30	23.50
		1	24	22.03	22.30	22.48	23.50
	16QAM	12	0	21.20	21.21	21.34	22.50
		12	6	21.16	21.22	21.36	22.50
		12	13	21.42	21.27	21.34	22.50
		25	0	21.23	21.18	21.34	22.50
D 1 240	NA - I I - C	DD -: -	DD - (' 1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20450	20525	20600	Tune up
		1	0	23.12	22.98	22.97	24.50
		1	25	23.12	23.26	23.36	24.50
		1	49	23.08	23.10	23.16	24.50
	QPSK	25	0	22.28	22.18	22.35	23.50
		25	13	22.25	22.21	22.24	23.50
		25	25	22.31	22.17	22.16	23.50
408411		50	0	22.27	22.22	22.24	23.50
10MHz		1	0	22.10	22.21	22.32	23.50
		1	25	22.40	22.45	22.39	23.50
		1	49	22.11	22.31	22.55	23.50
	16QAM	25	0	21.15	21.11	21.40	22.50
		25	13	21.25	21.18	21.30	22.50
		25	25	21.32	21.20	21.26	22.50
		50	0	21.20	21.12	21.34	22.50



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	LTE Band 7 S	ensor off			Conducted I	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
		1	0	22.77	22.77	22.86	24.00
		1	13	22.91	22.88	22.91	24.00
		1	24	22.89	22.78	22.87	24.00
	QPSK	12	0	22.14	21.86	21.85	23.00
	QI OIT	12	6	21.99	21.89	21.88	23.00
		12	13	21.87	21.87	21.99	23.00
		25	0	21.92	21.79	21.92	23.00
5MHz		1	0	21.91	21.90	21.72	23.00
		1	13	21.72	21.88	21.90	23.00
		1	24	21.69	21.72	21.83	23.00
	16QAM	12	0	21.03	20.80	20.74	22.00
		12	6	20.95	20.71	20.83	22.00
		12	13	21.07	20.88	21.00	22.00
		25	0	21.09	20.99	20.77	22.00
D 1 1 111	84 114		55 " .	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20800	21100	21400	Tune up
		1	0	22.78	22.65	22.82	24.00
		1	25	22.99	22.89	22.80	24.00
		1	49	22.78	22.82	22.92	24.00
	QPSK	25	0	22.02	21.71	21.90	23.00
		25	13	21.96	21.93	21.94	23.00
		25	25	21.91	21.89	21.87	23.00
10MHz		50	0	21.98	21.84	21.92	23.00
TUIVIEZ		1	0	21.98	21.80	21.61	23.00
		1	25	21.73	21.82	21.79	23.00
		1	49	21.79	21.76	21.82	23.00
	16QAM	25	0	20.95	20.81	20.73	22.00
		25	13	20.90	20.83	20.83	22.00
		25	25	21.07	20.88	20.92	22.00
		50	0	21.03	20.93	20.76	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawian	Woddiation	110 3120		20825	21100	21375	
		1	0	22.73	22.69	22.77	24.00
			38	22.89	22.82	22.87	24.00
	QPSK 15MHz	1	74	22.87	22.87	22.97	24.00
		36	0	22.09	21.81	21.88	23.00
15MHz		36	18	21.99	21.88	21.85	23.00
		36	39	21.97	21.89	21.93	23.00
		75	0	21.98	21.86	21.89	23.00
		1	0	21.91	21.82	21.62	23.00
	16QAM	1	38	21.79	21.89	21.88	23.00
		1	74	21.74	21.67	21.81	23.00



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1		36	0	21.05	20.78	20.76	22.00
		36	18	21.00	20.78	20.85	22.00
		36	39	20.99	20.78	20.96	22.00
		75	0	20.99	20.90	20.86	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dariuwiuiri	iviodulation	ND SIZE	KD 011261	20850	21100	21350	rune up
		1	0	22.73	22.60	22.70	24.00
		1	50	22.79	23.06	22.97	24.00
		1	99	22.85	22.93	23.01	24.00
	QPSK	50	0	22.12	22.18	21.98	23.00
		50	25	21.94	21.97	21.79	23.00
		50	50	22.04	21.88	21.84	23.00
20MHz		100	0	21.88	21.87	21.95	23.00
201011 12		1	0	21.87	21.90	21.56	23.00
		1	50	21.83	21.86	21.86	23.00
	16QAM	1	99	21.84	21.68	21.91	23.00
		50	0	21.04	20.84	20.76	22.00
		50	25	20.91	20.74	20.94	22.00
		50	50	20.99	20.76	20.98	22.00
		100	0	20.98	20.82	20.96	22.00

	LTE Band 7 S	ensor on		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung un	
Danuwiuin	iviodulation	KD SIZE	KD Ollset	20775	21100	21425	Tune up	
		1	0	18.56	18.39	18.46	20.00	
		1	13	18.87	18.69	18.73	20.00	
		1	24	18.61	18.64	18.55	20.00	
	QPSK	12	0	18.74	18.59	18.58	20.00	
		12	6	18.60	18.66	18.55	20.00	
		12	13	18.72	18.46	18.59	20.00	
ENALL-		25	0	18.77	18.58	18.58	20.00	
5MHz		1	0	18.72	18.46	18.71	20.00	
		1	13	18.35	18.57	18.51	20.00	
		1	24	18.68	18.76	18.43	20.00	
	16QAM	12	0	18.79	18.64	18.64	20.00	
		12	6	18.42	18.72	18.76	20.00	
		12	13	18.59	18.61	18.62	20.00	
		25	0	18.78	18.61	18.53	20.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Dariuwiuiri	iviodulation	KD SIZE	KD Ollset	20800	21100	21400	Tune up	
		1	0	18.58	18.42	18.40	20.00	
		1	25	18.80	18.51	18.71	20.00	
10MHz	QPSK	1	49	18.63	18.67	18.46	20.00	
		25	0	18.81	18.62	18.64	20.00	
		25	13	18.64	18.66	18.65	20.00	



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I	1	25	25	18.85	18.60	18.59	20.00
		50	0	18.86	18.75	18.68	20.00
		1	0	18.64	18.41	18.70	20.00
		1	25	18.35	18.55	18.48	20.00
		1	49	18.68	18.79	18.52	20.00
	16QAM	25	0	18.65	18.67	18.60	20.00
		25	13	18.46	18.67	18.77	20.00
		25	25	18.61	18.56	18.68	20.00
		50	0	18.71	18.60	18.62	20.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20825	21100	21375	Tune up
		1	0	18.54	18.88	18.47	20.00
		1	38	18.86	18.70	18.75	20.00
		1	74	18.58	18.51	18.50	20.00
	QPSK	36	0	18.82	18.58	18.64	20.00
	·	36	18	18.61	18.69	18.50	20.00
		36	39	18.87	18.48	18.71	20.00
458411		75	0	18.70	18.59	18.71	20.00
15MHz		1	0	18.62	18.58	18.55	20.00
		1	38	18.50	18.51	18.40	20.00
		1	74	18.66	18.76	18.47	20.00
	16QAM	36	0	18.69	18.64	18.66	20.00
		36	18	18.56	18.62	18.67	20.00
		36	39	18.46	18.54	18.71	20.00
		75	0	18.83	18.67	18.59	20.00
Doodyridth	Modulation	DP oizo	RB offset	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RD Ollset	20850	21100	21350	Tune up
		1	0	18.50	18.46	18.48	20.00
		1	50	18.80	18.89	18.65	20.00
		1	99	18.64	18.57	18.51	20.00
	QPSK	50	0	18.76	18.80	18.64	20.00
		50	25	18.66	18.64	18.60	20.00
		50	50	18.79	18.55	18.63	20.00
20MHz		100	0	18.79	18.66	18.66	20.00
ZUIVIFIZ		1	0	18.69	18.51	18.63	20.00
		1	50	18.43	18.56	18.45	20.00
		1	99	18.61	18.73	18.47	20.00
	16QAM	50	0	18.74	18.60	18.62	20.00
		50	25	18.46	18.68	18.69	20.00
		50	50	18.51	18.56	18.67	20.00
		100	0	18.78	18.61	18.59	20.00



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	LTE Band 38 S	Sensor off			Conducted I	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
		1	0	22.35	22.40	22.49	24.00
		1	13	22.67	22.59	22.65	24.00
		1	24	22.42	22.32	22.36	24.00
	QPSK	12	0	21.50	21.44	21.36	23.00
	<u> </u>	12	6	21.49	21.54	21.54	23.00
		12	13	21.37	21.31	21.24	23.00
		25	0	21.51	21.46	21.39	23.00
5MHz		1	0	21.44	21.34	21.32	23.00
		1	13	21.70	21.69	21.78	23.00
		1	24	21.39	21.41	21.34	23.00
	16QAM	12	0	20.60	20.54	20.57	22.00
		12	6	20.57	20.54	20.57	22.00
		12	13	20.53	20.51	20.61	22.00
		25	0	20.52	20.58	20.66	22.00
5 1 1 11			55 " .	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	37800	38000	38200	Tune up
		1	0	22.39	22.44	22.44	24.00
		1	25	22.56	22.54	22.57	24.00
		1	49	22.33	22.40	22.46	24.00
	QPSK	25	0	21.45	21.37	21.31	23.00
		25	13	21.46	21.41	21.36	23.00
		25	25	21.37	21.43	21.44	23.00
401411-		50	0	21.44	21.39	21.41	23.00
10MHz		1	0	21.41	21.34	21.35	23.00
		1	25	21.77	21.80	21.85	23.00
		1	49	21.51	21.49	21.59	23.00
	16QAM	25	0	20.65	20.66	20.67	22.00
		25	13	20.57	20.57	20.63	22.00
		25	25	20.58	20.49	20.44	22.00
		50	0	20.46	20.38	20.47	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dandwidth	Modulation	IND SIZE	ND onset	37825	38000	38175	Turie up
		1	0	22.30	22.39	22.43	24.00
		1	38	22.69	22.69	22.70	24.00
	1	74	22.48	22.48	22.58	24.00	
	QPSK I5MHz	36	0	21.39	21.34	21.31	23.00
15MHz		36	18	21.52	21.42	21.42	23.00
I GIVII IZ		36	39	21.37	21.44	21.47	23.00
		75	0	21.54	21.57	21.47	23.00
		1	0	21.37	21.31	21.31	23.00
	16QAM	1	38	21.63	21.62	21.65	23.00
		1	74	21.47	21.43	21.48	23.00



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ı	i	i	I	Ī	i	Ī	Ī
		36	0	20.52	20.56	20.57	22.00
		36	18	20.68	20.76	20.74	22.00
		36	39	20.61	20.63	20.60	22.00
		75	0	20.62	20.56	20.54	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up
Danuwiuin	IVIOGUIALIOIT	RD SIZE	KD Ollset	37850	38000	38150	Tune up
		1	0	22.16	22.22	22.30	24.00
		1	50	22.42	22.67	22.68	24.00
		1	99	22.27	22.32	22.40	24.00
	QPSK	50	0	21.32	21.50	21.51	23.00
		50	25	21.26	21.41	21.48	23.00
		50	50	21.26	21.36	21.45	23.00
20MHz		100	0	21.28	21.38	21.54	23.00
ZUIVITZ		1	0	21.27	21.33	21.38	23.00
		1	50	21.52	21.61	21.72	23.00
	16QAM	1	99	21.39	21.42	21.49	23.00
		50	0	20.36	20.44	20.57	22.00
		50	25	20.40	20.52	20.61	22.00
		50	50	20.39	20.45	20.54	22.00
		100	0	20.31	20.43	20.54	22.00

	LTE Band 38 \$	Sensor on		Conducted Power(dBm)				
Donalisialth	Madulation	DD size	DD offeet	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	37775	38000	38225	Tune up	
		1	0	20.20	20.23	20.22	22.00	
		1	13	20.46	20.44	20.35	22.00	
		1	24	20.57	20.19	20.35	22.00	
	QPSK	12	0	20.25	20.42	20.42	22.00	
		12	6	20.41	20.44	20.42	22.00	
		12	13	20.27	20.40	20.44	22.00	
5MHz		25	0	20.19	20.47	20.51	22.00	
SIVITZ		1	0	20.09	20.31	20.30	22.00	
		1	13	20.40	20.45	20.18	22.00	
		1	24	20.27	20.47	20.37	22.00	
	16QAM	12	0	20.50	20.48	20.06	22.00	
		12	6	20.43	20.43	20.07	22.00	
		12	13	20.45	20.47	20.53	22.00	
		25	0	20.38	20.40	20.50	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Dariuwiutii	iviodulation	ND SIZE	VD 011261	37800	38000	38200	rune up	
		1	0	20.15	20.18	20.31	22.00	
		1	25	20.46	20.47	20.33	22.00	
10MHz	QPSK	1	49	20.09	20.19	20.39	22.00	
		25	0	20.37	20.34	20.37	22.00	
		25	13	20.38	20.38	20.51	22.00	



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I	I	25	25	20.26	20.37	20.33	22.00
		50	0	20.30	20.29	20.50	22.00
		1	0	20.16	20.18	20.38	22.00
		1	25	20.37	20.39	20.18	22.00
		1	49	20.42	20.44	20.49	22.00
	16QAM	25	0	20.48	20.48	20.22	22.00
		25	13	20.39	20.46	20.23	22.00
		25	25	20.29	20.42	20.41	22.00
		50	0	20.44	20.35	20.40	22.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	37825	38000	38175	Tune up
		1	0	20.03	20.15	20.18	22.00
		1	38	20.38	20.48	20.41	22.00
		1	74	20.16	20.36	20.42	22.00
	QPSK	36	0	20.31	20.42	20.55	22.00
		36	18	20.49	20.40	20.60	22.00
		36	39	20.36	20.40	20.40	22.00
458411		75	0	20.13	20.27	20.52	22.00
15MHz		1	0	20.26	20.30	20.27	22.00
		1	38	20.37	20.41	20.25	22.00
		1	74	20.41	20.40	20.34	22.00
	16QAM	36	0	20.46	20.37	20.12	22.00
		36	18	20.49	20.41	20.06	22.00
		36	39	20.35	20.50	20.37	22.00
		75	0	20.28	20.45	20.46	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwiuin	Modulation	RD SIZE	KD Ollset	37850	38000	38150	Tune up
		1	0	20.13	20.19	20.21	22.00
		1	50	20.36	20.55	20.56	22.00
		1	99	20.12	20.27	20.32	22.00
	QPSK	50	0	20.35	20.52	20.53	22.00
		50	25	20.40	20.45	20.51	22.00
		50	50	20.28	20.31	20.42	22.00
20MHz		100	0	20.22	20.37	20.46	22.00
ZOIVII IZ		1	0	20.16	20.24	20.30	22.00
	-	1	50	20.35	20.44	20.22	22.00
		1	99	20.32	20.39	20.43	22.00
	16QAM	50	0	20.43	20.39	20.16	22.00
		50	25	20.41	20.43	20.16	22.00
		50	50	20.36	20.43	20.46	22.00
		100	0	20.34	20.41	20.50	22.00

Conducted Power of LTE Table 13:



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8.1.2 Conducted Power of DIV Antenna(Ant2)

8.1.2.1 Conducted Power of WCDMA

	WCDMA	Band II Receive	r off		
	Average Co	nducted Power	(dBm)		
C	hannel	9262	9400	9538	Tune up
MCDMA	12.2kbps RMC	23.10	23.06	23.04	24.00
WCDMA	12.2kbps AMR	23.00	22.95	22.91	24.00
	Subtest 1	21.68	21.64	21.57	22.50
LICDDA	Subtest 2	21.51	21.47	21.43	22.50
HSDPA	Subtest 3	21.52	21.51	21.53	22.50
	Subtest 4	21.46	21.42	21.34	22.50
	Subtest 1	20.58	20.49	20.52	21.50
	Subtest 2	20.47	20.41	20.38	21.50
HSUPA	Subtest 3	20.55	20.52	20.46	21.50
	Subtest 4	20.46	20.39	20.38	21.50
	Subtest 5	20.63	20.59	20.61	21.50
	Subtest 1	21.63	21.58	21.61	22.50
DC HCDDA	Subtest 2	21.59	21.48	21.45	22.50
DC-HSDPA	Subtest 3	21.54	21.55	21.46	22.50
	Subtest 4	21.48	21.40	21.35	22.50
HSPA+	16QAM	20.53	20.45	20.39	21.50

	WCDMA Band II Receiver on									
Average Conducted Power(dBm)										
С	hannel	9262	9400	9538	Tune up					
WCDMA	12.2kbps RMC	16.76	16.57	16.59	17.50					
VVCDIVIA	12.2kbps AMR	16.70	16.51	16.53	17.50					
	Subtest 1	16.71	16.55	16.51	17.50					
HSDPA	Subtest 2	16.68	16.43	16.45	17.50					
ПОДРА	Subtest 3	16.84	16.60	16.68	17.50					
	Subtest 4	16.74	16.53	16.56	17.50					
	Subtest 1	16.75	16.52	16.53	17.50					
	Subtest 2	16.64	16.49	16.46	17.50					
HSUPA	Subtest 3	16.75	16.55	16.58	17.50					
	Subtest 4	16.65	16.46	16.50	17.50					
	Subtest 5	16.83	16.58	16.67	17.50					
	Subtest 1	16.69	16.53	16.54	17.50					
DC-HSDPA	Subtest 2	16.64	16.47	16.49	17.50					
DC-USDPA	Subtest 3	16.72	16.52	16.50	17.50					
	Subtest 4	16.65	16.48	16.51	17.50					
HSPA+	16QAM	16.63	16.54	16.56	17.50					



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	WCDMA	Band II Sensor	on		
	Average Co	nducted Power	(dBm)		
С	hannel	9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	20.00	20.03	20.02	21.00
VVCDIVIA	12.2kbps AMR	19.91	19.94	19.93	21.00
	Subtest 1	19.94	19.94	20.01	21.00
ПСББУ	Subtest 2	19.83	19.86	19.92	21.00
HSDPA	Subtest 3	20.04	20.12	20.11	21.00
	Subtest 4	19.93	19.95	19.94	21.00
	Subtest 1	19.99	19.99	19.99	21.00
	Subtest 2	19.90	19.93	19.89	21.00
HSUPA	Subtest 3	19.95	19.97	19.97	21.00
	Subtest 4	19.89	19.85	19.86	21.00
	Subtest 5	20.06	20.06	20.11	21.00
	Subtest 1	19.96	20.02	19.93	21.00
DC-HSDPA	Subtest 2	19.85	19.85	19.88	21.00
DC-UODFA	Subtest 3	19.94	19.95	19.96	21.00
	Subtest 4	19.85	19.90	19.92	21.00
HSPA+	16QAM	19.89	19.93	19.87	21.00

	WCDMA E	Band IV Receive	er off		
	Average Co	nducted Power((dBm)		
С	hannel	1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	23.01	22.95	22.82	24.00
VVCDIVIA	12.2kbps AMR	22.92	22.84	22.71	24.00
	Subtest 1	21.57	21.46	21.40	22.50
HSDPA	Subtest 2	21.43	21.39	21.25	22.50
ПЭДРА	Subtest 3	21.43	21.42	21.25	22.50
	Subtest 4	21.33	21.33	21.20	22.50
	Subtest 1	20.47	20.40	20.25	21.50
	Subtest 2	20.37	20.28	20.19	21.50
HSUPA	Subtest 3	20.45	20.37	20.23	21.50
	Subtest 4	20.39	20.25	20.20	21.50
	Subtest 5	20.60	20.46	20.40	21.50
	Subtest 1	21.58	21.52	21.41	22.50
DC HCDDV	Subtest 2	21.46	21.37	21.29	22.50
DC-HSDPA	Subtest 3	21.46	21.44	21.27	22.50
	Subtest 4	21.41	21.33	21.16	22.50
HSPA+	16QAM	20.45	20.43	20.36	21.50



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	WCDMA E	Band IV Receive	er on		
	Average Co	nducted Power((dBm)		
С	hannel	1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	16.00	15.98	16.01	17.00
VVCDIVIA	12.2kbps AMR	15.92	15.90	15.94	17.00
	Subtest 1	15.98	15.92	15.98	17.00
HCDDV	Subtest 2	15.90	15.89	15.90	17.00
HSDPA	Subtest 3	16.07	16.04	16.06	17.00
	Subtest 4	15.99	15.95	15.99	17.00
	Subtest 1	15.93	15.90	15.93	17.00
	Subtest 2	15.87	15.85	15.91	17.00
HSUPA	Subtest 3	15.96	15.93	15.95	17.00
	Subtest 4	15.84	15.88	15.91	17.00
	Subtest 5	16.02	16.00	16.10	17.00
	Subtest 1	15.93	15.89	15.94	17.00
DC HCDDA	Subtest 2	15.84	15.83	15.89	17.00
DC-HSDPA	Subtest 3	15.92	15.95	16.00	17.00
	Subtest 4	15.84	15.82	15.91	17.00
HSPA+	16QAM	15.87	15.92	15.95	17.00

	WCDMA	Band IV Sensor	on		
	Average Co	nducted Power	(dBm)		
C	hannel	1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	20.02	20.00	19.97	21.00
WCDIVIA	12.2kbps AMR	19.90	19.89	19.86	21.00
	Subtest 1	19.96	19.94	19.96	21.00
HSDPA	Subtest 2	19.83	19.81	19.85	21.00
ПОДРА	Subtest 3	20.09	20.05	19.98	21.00
	Subtest 4	19.97	19.97	19.88	21.00
	Subtest 1	19.95	19.91	19.88	21.00
	Subtest 2	19.89	19.84	19.83	21.00
HSUPA	Subtest 3	19.93	19.94	19.90	21.00
	Subtest 4	19.81	19.87	19.78	21.00
	Subtest 5	20.05	20.03	20.05	21.00
	Subtest 1	20.00	19.94	19.93	21.00
DC HSDBV	Subtest 2	19.89	19.86	19.83	21.00
DC-HSDPA	Subtest 3	20.01	19.91	19.91	21.00
	Subtest 4	19.86	19.82	19.77	21.00
HSPA+	16QAM	19.92	19.85	19.83	21.00



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	WCDMA Band V Receiver off									
	Average Co	nducted Power((dBm)							
CI	nannel	4132	4182	4233	Tune up					
WCDMA	12.2kbps RMC	22.85	22.89	22.78	24.00					
VVCDIVIA	12.2kbps AMR	22.76	22.79	22.70	24.00					
	Subtest 1	21.40	21.44	21.29	22.50					
HSDPA	Subtest 2	21.30	21.34	21.27	22.50					
ПЭПЬЯ	Subtest 3	21.33	21.32	21.21	22.50					
	Subtest 4	21.20	21.22	21.17	22.50					
	Subtest 1	20.27	20.37	20.20	21.50					
	Subtest 2	20.17	20.23	20.19	21.50					
HSUPA	Subtest 3	20.34	20.31	20.25	21.50					
	Subtest 4	20.21	20.26	20.17	21.50					
	Subtest 5	20.44	20.46	20.37	21.50					
	Subtest 1	21.38	21.43	21.32	22.50					
DC-HSDPA	Subtest 2	21.31	21.33	21.28	22.50					
DC-HSDPA	Subtest 3	21.32	21.32	21.23	22.50					
	Subtest 4	21.25	21.22	21.12	22.50					
HSPA+	16QAM	20.35	20.41	20.23	21.50					

	WCDMA Band V Receiver on									
Average Conducted Power(dBm)										
С	hannel	4132	4182	4233	Tune up					
WCDMA	12.2kbps RMC	21.81	22.00	21.79	23.00					
VVCDIVIA	12.2kbps AMR	21.75	21.93	21.68	23.00					
	Subtest 1	21.40	21.44	21.29	22.50					
HSDPA	Subtest 2	21.30	21.34	21.27	22.50					
ПОДРА	Subtest 3	21.33	21.32	21.21	22.50					
	Subtest 4	21.20	21.22	21.17	22.50					
	Subtest 1	20.27	20.37	20.20	21.50					
	Subtest 2	20.17	20.23	20.19	21.50					
HSUPA	Subtest 3	20.34	20.31	20.25	21.50					
	Subtest 4	20.21	20.26	20.17	21.50					
	Subtest 5	20.44	20.46	20.37	21.50					
	Subtest 1	21.38	21.43	21.32	22.50					
DC HSDBY	Subtest 2	21.31	21.33	21.28	22.50					
DC-HSDPA	Subtest 3	21.32	21.32	21.23	22.50					
	Subtest 4	21.25	21.22	21.12	22.50					
HSPA+	16QAM	20.25	20.34	20.27	21.50					

Conducted Power of WCDMA Table 14:



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8.1.2.2 Conducted Power of LTE

	LTE Band 2 Re	eceiver off		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up	
		1	0	22.89	22.62	22.50	24.00	
		1	2	22.79	22.71	22.64	24.00	
		1	5	22.71	22.56	22.66	24.00	
	QPSK	3	0	22.75	22.94	22.68	24.00	
	α. σ. τ	3	1	22.76	22.64	22.82	24.00	
		3	3	22.73	22.79	22.63	24.00	
		6	0	21.70	21.80	21.65	23.00	
1.4MHz		1	0	22.31	21.89	22.03	23.00	
		1	2	21.49	21.86	21.86	23.00	
		1	5	21.81	21.95	21.99	23.00	
	16QAM	3	0	21.76	21.79	21.76	23.00	
		3	1	21.69	21.67	21.82	23.00	
		3	3	21.65	21.63	21.63	23.00	
		6	0	20.59	20.75	20.74	22.00	
B 1 1 111			55 " 1	Channel	Channel	Channel		
Bandwidth	Modulation	RB size	RB offset	18615	18900	19185	Tune up	
		1	0	22.79	22.59	22.51	24.00	
		1	7	22.77	22.72	22.74	24.00	
		1	14	22.68	22.69	22.75	24.00	
	QPSK	8	0	21.71	21.95	21.80	23.00	
		8	4	21.78	21.70	21.82	23.00	
		8	7	21.80	21.80	21.74	23.00	
3MHz		15	0	21.71	21.88	21.70	23.00	
SIVII IZ		1	0	22.18	21.85	21.98	23.00	
		1	7	21.48	21.85	21.83	23.00	
		1	14	21.74	21.89	22.12	23.00	
	16QAM	8	0	20.73	20.70	20.77	22.00	
		8	4	20.65	20.63	20.74	22.00	
		8	7	20.69	20.59	20.76	22.00	
		15	0	20.67	20.74	20.66	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danawidin	Modulation	IND SIZE	IVD Olloct	18625	18900	19175	rune up	
		1	0	22.88	22.58	22.62	24.00	
		1	13	22.77	22.85	22.75	24.00	
		1	24	22.70	22.50	22.64	24.00	
5MHz	QPSK	12	0	21.75	21.87	21.66	23.00	
OIVII IZ		12	6	21.82	21.73	21.78	23.00	
		12	13	21.64	21.71	21.59	23.00	
		25	0	21.75	21.89	21.59	23.00	
	16QAM	1	0	22.23	21.79	22.02	23.00	



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		l 1	13	21.48	21.71	21.87	23.00
		1	24	21.89	21.80	22.06	23.00
		12	0	20.68	20.71	20.62	22.00
		12	6	20.80	20.67	20.76	22.00
		12	13	20.59	20.68	20.63	22.00
		25	0	20.55	20.73	20.71	22.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	22.81	22.58	22.54	24.00
		1	50	22.61	22.74	22.74	24.00
		1	99	22.68	22.56	22.65	24.00
	QPSK	50	0	21.85	21.79	21.67	23.00
	<u> </u>	50	25	21.66	21.64	21.70	23.00
		50	50	21.75	21.70	21.66	23.00
		100	0	21.74	21.72	21.71	23.00
10MHz		1	0	22.31	21.90	22.04	23.00
		1	50	21.49	21.74	21.67	23.00
		1	99	21.83	21.91	22.12	23.00
	16QAM	50	0	20.64	20.75	20.58	22.00
		50	25	20.65	20.58	20.72	22.00
		50	50	20.76	20.69	20.77	22.00
		100	0	20.65	20.68	20.69	22.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
	QPSK	1	0	22.80	22.65	22.60	24.00
		1	38	22.71	22.80	22.73	24.00
		1	74	22.66	22.60	22.66	24.00
		36	0	21.75	21.86	21.71	23.00
	<u> </u>	36	18	21.72	21.73	21.74	23.00
		36	39	21.71	21.71	21.69	23.00
		75	0	21.73	21.81	21.68	23.00
15MHz		1	0	22.28	21.82	22.02	23.00
		1	38	21.54	21.81	21.77	23.00
		1	74	21.82	21.85	22.04	23.00
	16QAM	36	0	20.66	20.76	20.68	22.00
		36	18	20.73	20.62	20.73	22.00
		36	39	20.69	20.69	20.70	22.00
		75	0	20.65	20.66	20.65	22.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
		1	0	22.76	22.64	22.62	24.00
		1	50	22.73	22.83	22.71	24.00
		1	99	22.67	22.52	22.70	24.00
20MHz	QPSK	50	0	21.75	21.77	21.75	23.00
_012	ς. σ.	50	25	21.77	21.80	21.83	23.00
		50	50	21.65	21.78	21.60	23.00
		- 50	- 50	21.00	21.70	21.00	25.00



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	1	0	22.18	21.80	22.02	23.00
	1	50	21.62	21.75	21.87	23.00
	1	99	21.85	21.82	22.11	23.00
16QAM	50	0	20.57	20.74	20.58	22.00
	50	25	20.78	20.70	20.66	22.00
	50	50	20.77	20.71	20.67	22.00
	100	0	20.60	20.74	20.69	22.00

	LTE Band 2 Re	eceiver on		Conducted Power(dBm)			
D1-146	Maddaga	DD -:	DD - (' 1	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up
		1	0	16.41	16.15	16.18	17.50
		1	2	16.39	16.30	16.35	17.50
		1	5	16.29	16.36	16.14	17.50
	QPSK	3	0	16.45	16.28	16.26	17.50
		3	1	16.35	16.45	16.30	17.50
		3	3	16.50	16.36	16.25	17.50
1.4MHz		6	0	16.35	16.37	16.42	17.50
1.4IVIHZ		1	0	16.20	16.38	16.21	17.50
	1	2	16.39	16.32	16.29	17.50	
		1	5	16.36	16.40	16.25	17.50
	16QAM	3	0	16.38	16.42	16.33	17.50
		3	1	16.40	16.44	16.30	17.50
		3	3	16.38	16.28	16.21	17.50
		6	0	16.37	16.32	16.42	17.50
Do no alveri altib	Madulation	RB size	RB offset	Channel	Channel	Channel	T
Bandwidth	Modulation			18615	18900	19185	Tune up
		1	0	16.24	16.27	16.33	17.50
		1	7	16.39	16.32	16.33	17.50
		1	14	16.30	16.40	16.43	17.50
	QPSK	8	0	16.35	16.34	16.34	17.50
		8	4	16.33	16.33	16.40	17.50
		8	7	16.35	16.31	16.26	17.50
3MHz		15	0	16.37	16.30	16.35	17.50
SIVITIZ		1	0	16.35	16.29	16.27	17.50
		1	7	16.39	16.38	16.33	17.50
		1	14	16.34	16.34	16.21	17.50
	16QAM	8	0	16.32	16.38	16.32	17.50
		8	4	16.42	16.42	16.23	17.50
		8	7	16.33	16.33	16.18	17.50
		15	0	16.34	16.30	16.30	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
	ODOK	1	0	16.38	16.20	16.15	17.50
5MHz	QPSK	1	13	16.40	16.36	16.38	17.50



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I	İ	l 1	24	16.22	16.29	16.30	17.50
		12	0	16.38	16.30	16.32	17.50
		12	6	16.37	16.43	16.48	17.50
		12	13	16.34	16.29	16.31	17.50
		25	0	16.30	16.32	16.35	17.50
		1	0	16.30	16.37	16.31	17.50
		1	13	16.37	16.36	16.31	17.50
		1	24	16.36	16.38	16.23	17.50
	16QAM	12	0	16.19	16.35	16.43	17.50
	TOQAW	12	6	16.38	16.40	16.42	17.50
		12	13	16.32	16.33	16.23	17.50
		25	0	16.34	16.33	16.25	17.50
		2.5	0	Channel	Channel	Channel	17.50
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	16.29	16.34	16.15	17.50
		1	50	16.29	16.46	16.13	17.50
		1	99	16.32	16.27	16.20	17.50
	QPSK	50	0	16.35	16.41	16.31	17.50
	QFSK	50	25	16.30	16.41	16.36	17.50
		50	50	16.34	16.32	16.35	17.50
		100	0	16.32	16.36	16.35	17.50
10MHz		100	0	16.43	16.35	16.23	
		1	50	16.38	16.33	16.23	17.50 17.50
		1	99	16.41	16.38	16.20	17.50
	16QAM	50	0	16.35	16.42	16.42	17.50
	TOQAM	50	25	16.27	16.38	16.44	17.50
		50	50	16.32	16.29	16.35	17.50
		100	0	16.35	16.27	16.31	17.50
		100	0	Channel	Channel	Channel	17.50
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	16.30	16.35	16.23	17.50
		1	38	16.25	16.34	16.25	17.50
		1	74	16.25	16.19	16.18	17.50
	QPSK	36	0	16.13	16.19	16.16	17.50
	QI OIL	36	18	16.32	16.42	16.37	17.50
		36	39	16.35	16.29	16.31	17.50
		75	0	16.33	16.29	16.25	17.50
15MHz		1	0	16.33	16.33	16.23	17.50
		1	38	16.20	16.34	16.30	17.50
		1	74	16.29	16.38	16.29	17.50
	16QAM	36	0	16.27	16.34	16.40	17.50
	ToQAM	36	18	16.38	16.40	16.40	17.50
		36	39	16.35	16.38	16.29	17.50
		75	0	16.33	16.37	16.29	17.50
		7.5		Channel	Channel	Channel	17.30
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
20MHz	QPSK	1	0	16.45	16.33	16.25	17.50



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	I	1 .	l	1			l
		1	50	16.37	16.44	16.34	17.50
		1	99	16.12	16.31	16.16	17.50
		50	0	16.09	16.39	16.32	17.50
		50	25	16.43	16.44	16.36	17.50
		50	50	16.21	16.34	16.08	17.50
		100	0	16.29	16.38	16.19	17.50
		1	0	16.40	16.17	16.41	17.50
		1	50	16.39	16.35	16.31	17.50
		1	99	16.31	16.40	16.40	17.50
	16QAM	50	0	16.17	16.43	16.17	17.50
		50	25	16.30	16.28	16.40	17.50
		50	50	16.31	16.39	16.19	17.50
		100	0	16.20	16.34	16.24	17.50

	LTE Band 2 S		Conducted Power(dBm)				
Donady vialth	Modulation	DD size	DD offeet	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up
		1	0	19.80	19.88	19.85	21.00
		1	2	19.93	20.00	19.79	21.00
		1	5	19.65	19.53	19.71	21.00
	QPSK	3	0	19.87	19.82	19.82	21.00
		3	1	20.01	19.82	19.91	21.00
		3	3	19.77	19.82	19.79	21.00
1.4MHz		6	0	19.96	19.97	19.89	21.00
1.41/1172		1	0	19.58	19.71	19.65	21.00
	16QAM	1	2	19.72	19.98	19.74	21.00
		1	5	19.69	19.90	19.99	21.00
		3	0	19.36	19.70	19.58	21.00
		3	1	19.54	19.69	19.60	21.00
		3	3	19.51	19.71	19.57	21.00
		6	0	19.58	19.63	19.59	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
bandwidth	iviodulation	RD SIZE	RD Ollset	18615	18900	19185	rune up
		1	0	19.79	19.80	19.69	21.00
		1	7	19.86	20.06	19.75	21.00
		1	14	19.63	19.61	19.64	21.00
	QPSK	8	0	19.87	19.92	19.95	21.00
		8	4	19.91	19.81	19.85	21.00
3MHz		8	7	19.90	19.89	19.83	21.00
SIVITZ		15	0	19.87	19.88	19.83	21.00
		1	0	19.56	19.51	19.57	21.00
		1	7	19.82	19.86	19.75	21.00
	16QAM	1	14	19.60	19.89	19.88	21.00
		8	0	19.52	19.64	19.53	21.00
		8	4	19.53	19.54	19.67	21.00



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		8	7	19.64	19.68	19.61	21.00
		15	0	19.55	19.58	19.60	21.00
5			55 "	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18625	18900	19175	Tune up
		1	0	19.68	19.69	19.81	21.00
		1	13	19.79	20.04	19.91	21.00
		1	24	19.65	19.52	19.71	21.00
	QPSK	12	0	19.93	19.94	19.80	21.00
		12	6	19.97	19.86	19.86	21.00
		12	13	19.79	19.95	19.83	21.00
		25	0	19.87	19.90	19.87	21.00
5MHz		1	0	19.58	19.57	19.75	21.00
		1	13	19.81	19.84	19.65	21.00
		1	24	19.54	19.94	19.91	21.00
	16QAM	12	0	19.38	19.61	19.48	21.00
		12	6	19.66	19.54	19.69	21.00
		12	13	19.65	19.60	19.54	21.00
		25	0	19.49	19.68	19.53	21.00
Dandwidth	Modulation	DD oizo	RB offset	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RD Ollset	18650	18900	19150	Tune up
		1	0	19.76	19.83	19.67	21.00
		1	50	19.87	20.04	19.74	21.00
		1	99	19.60	19.62	19.69	21.00
	QPSK	50	0	19.93	19.92	19.86	21.00
		50	25	19.89	19.82	19.92	21.00
		50	50	19.86	19.89	19.77	21.00
10MHz		100	0	19.95	20.00	19.77	21.00
TOME		1	0	19.70	19.53	19.68	21.00
		1	50	19.81	19.99	19.61	21.00
		1	99	19.72	19.81	20.00	21.00
	16QAM	50	0	19.35	19.64	19.53	21.00
		50	25	19.57	19.49	19.63	21.00
		50	50	19.57	19.76	19.60	21.00
		100	0	19.43	19.72	19.48	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Daridwidtii	Modulation	IND SIZE	IVD Ollset	18675	18900	19125	Turie up
		1	0	19.63	19.89	19.73	21.00
		1	38	19.89	20.03	19.77	21.00
		1	74	19.64	19.65	19.63	21.00
	QPSK	36	0	19.86	19.82	19.95	21.00
		36	18	19.95	19.81	20.01	21.00
15MHz		36	39	19.94	19.82	19.76	21.00
		75	0	19.95	19.95	19.73	21.00
		1	0	19.74	19.56	19.59	21.00
	16QAM	1	38	19.76	19.88	19.59	21.00
	10QAW	1	74	19.64	19.93	19.88	21.00
		36	0	19.40	19.56	19.47	21.00



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1		36	18	19.72	19.58	19.73	21.00
		36	39	19.57	19.70	19.53	21.00
		75	0	19.57	19.59	19.58	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up
Danuwiuin	iviodulation	KD SIZE	KD 0115et	18700	18900	19100	Tune up
		1	0	19.73	19.79	19.75	21.00
		1	50	19.88	19.98	19.81	21.00
		1	99	19.60	19.59	19.71	21.00
	QPSK	50	0	19.85	19.93	19.88	21.00
		50	25	19.91	19.87	19.93	21.00
		50	50	19.85	19.88	19.77	21.00
20MHz		100	0	19.93	19.95	19.83	21.00
201011 12		1	0	19.64	19.61	19.65	21.00
		1	50	19.74	19.93	19.69	21.00
		1	99	19.62	19.88	19.97	21.00
	16QAM	50	0	19.45	19.65	19.57	21.00
		50	25	19.63	19.59	19.63	21.00
		50	50	19.60	19.67	19.54	21.00
		100	0	19.51	19.66	19.55	21.00

	LTE Band 4 Re	eceiver off		Conducted Power(dBm)				
Danah dalah	Madulatian	DD ains	DD -#	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up	
		1	0	22.89	22.74	22.78	24.00	
		1	2	22.65	22.42	22.54	24.00	
		1	5	22.88	22.77	22.71	24.00	
	QPSK	3	0	22.87	22.83	22.67	24.00	
		3	1	22.67	22.76	22.76	24.00	
		3	3	22.83	22.73	22.73	24.00	
1.4MHz		6	0	21.90	21.96	21.76	23.00	
1.41011 12	16QAM	1	0	22.40	21.85	21.90	23.00	
		1	2	22.13	21.92	21.87	23.00	
		1	5	21.80	21.67	21.75	23.00	
		3	0	21.79	21.77	21.91	23.00	
		3	1	21.80	21.74	21.83	23.00	
		3	3	21.73	21.70	21.95	23.00	
		6	0	20.76	20.64	20.64	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Dariuwiuiri	iviodulation	KD SIZE	KD Ollset	19965	20175	20385	Tune up	
		1	0	22.75	22.76	22.74	24.00	
		1	7	22.56	22.56	22.63	24.00	
3MHz	QPSK	1	14	22.86	22.74	22.72	24.00	
SIVITZ	QF3N	8	0	21.69	21.87	21.83	23.00	
		8	4	21.83	21.83	21.78	23.00	
		8	7	21.76	21.80	21.79	23.00	



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		15	0	21.87	22.03	21.74	23.00
		1	0	22.23	22.00	21.90	23.00
		1	7	22.08	21.93	21.83	23.00
		1	14	21.81	21.82	21.81	23.00
	16QAM	8	0	20.80	20.82	20.98	22.00
	100,111	8	4	20.82	20.78	20.93	22.00
		8	7	20.67	20.72	20.98	22.00
		15	0	20.62	20.57	20.54	22.00
		10		Channel	Channel	Channel	22.00
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune u
		1	0	22.86	22.71	22.71	24.00
		1	13	22.58	22.49	22.46	24.00
		1	24	22.87	22.74	22.75	24.00
	QPSK	12	0	21.70	21.74	21.72	23.00
	QI SIX	12	6	21.82	21.74	21.72	23.00
		12	13	21.77	21.76	21.72	
		25	0	22.01	21.74	21.73	23.00
5MHz		1	0	22.24	21.84	22.00	23.00
		1	13	21.95		21.85	23.00
		1		21.95	22.09		23.00
	400 414		24		21.76	21.79	23.00
	16QAM	12	0	20.86	20.80	20.97	22.00
		12	6	20.68	20.79	20.98	22.00
		12	13	20.78	20.66	20.79	22.00
		25	0	20.67	20.55	20.57	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune u
				20000	20175	20350	
		1	0	22.77	22.88	22.76	24.00
		1	50	22.69	22.45	22.57	24.00
		1	99	22.73	22.89	22.77	24.00
	QPSK	50	0	21.78	21.89	21.79	23.00
		50	25	21.65	21.81	21.81	23.00
		50	50	21.88	21.75	21.78	23.00
10MHz		100	0	21.92	21.95	21.74	23.00
10111112		1	0	22.32	21.86	21.91	23.00
		1	50	22.03	21.98	21.74	23.00
		1	99	21.93	21.81	21.83	23.00
	16QAM	50	0	20.86	20.89	21.05	22.00
		50	25	20.69	20.62	20.81	22.00
		50	50	20.70	20.69	20.78	22.00
		100	0	20.71	20.61	20.57	22.00
Dondui dth	Modulation	DD ains	DD c#aat	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune u
		1	0	22.82	22.75	22.73	24.00
		1	38	22.57	22.52	22.50	24.00
15MHz	QPSK	1	74	22.78	22.83	22.70	24.00
		36	0	21.78	21.78	21.78	23.00
		36	18	21.81	21.79	21.75	23.00



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	I	36	39	21.81	21.79	21.64	23.00
		75	0	21.93	21.79	21.86	
		1	0	22.29	21.09		23.00
		-				21.88	23.00
		1	38	22.01	21.98	21.71	23.00
		1	74	21.83	21.83	21.70	23.00
	16QAM	36	0	20.72	20.83	20.93	22.00
		36	18	20.80	20.64	20.97	22.00
		36	39	20.67	20.72	20.94	22.00
		75	0	20.63	20.51	20.65	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dariuwiutii	iviodulation	ND SIZE	KD Ollset	20050	20175	20300	Turie up
		1	0	22.85	22.78	22.71	24.00
		1	50	22.61	22.49	22.53	24.00
		1	99	22.81	22.83	22.78	24.00
	QPSK	50	0	21.78	21.81	21.74	23.00
		50	25	21.73	21.73	21.74	23.00
		50	50	21.80	21.75	21.70	23.00
001411-		100	0	21.91	21.97	21.80	23.00
20MHz		1	0	22.33	21.91	21.92	23.00
		1	50	22.05	21.99	21.80	23.00
		1	99	21.87	21.74	21.78	23.00
	16QAM	50	0	20.82	20.83	20.97	22.00
		50	25	20.78	20.70	20.89	22.00
		50	50	20.77	20.72	20.88	22.00
		100	0	20.66	20.61	20.57	22.00

	LTE Band 4 Receiver on				Conducted Power(dBm)				
Dondwidth	Modulation	DD oizo	DD offeet	Channel	Channel	Channel	Tungun		
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up		
		1	0	15.84	15.73	15.55	17.00		
		1	2	15.51	15.74	15.5	17.00		
		1	5	15.6	15.63	15.62	17.00		
QPSK	3	0	15.75	15.73	15.78	17.00			
		3	1	15.54	15.6	15.48	17.00		
		3	3	15.65	15.67	15.67	17.00		
1.4MHz		6	0	16.42	16.29	15.82	17.00		
1.41/11 12		1	0	16.06	16.29	15.72	17.00		
		1	2	16.16	16.2	15.7	17.00		
		1	5	15.68	15.67	15.63	17.00		
	16QAM	3	0	15.84	15.69	15.7	17.00		
		3	1	15.6	15.8	15.77	17.00		
		3	3	15.59	15.72	15.59	17.00		
		6	0	15.68	15.68	15.58	17.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel			
Danuwiuin	iviouulation	ND SIZE	KP Ollser	19965	20175	20385	Tune up		



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	ı		l -	l	l	l	ı
		1	0	15.85	15.63	15.62	17.00
		1	7	15.58	15.73	15.60	17.00
		1	14	15.66	15.57	15.72	17.00
	QPSK	8	0	15.71	15.67	15.69	17.00
		8	4	15.62	15.65	15.57	17.00
		8	7	15.63	15.70	15.62	17.00
3MHz		15	0	16.34	16.23	15.86	17.00
		1	0	16.02	16.20	15.76	17.00
		1	7	16.21	16.11	15.64	17.00
		1	14	15.63	15.75	15.70	17.00
	16QAM	8	0	15.90	15.76	15.64	17.00
		8	4	15.62	15.78	15.77	17.00
		8	7	15.69	15.72	15.61	17.00
		15	0	15.60	15.66	15.48	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	·
		1	0	15.95	15.56	15.59	17.00
		1	13	15.61	15.74	15.69	17.00
		1	24	15.68	15.58	15.8	17.00
	QPSK	12	0	15.69	15.67	15.76	17.00
		12	6	15.62	15.56	15.53	17.00
		12	13	15.72	15.74	15.67	17.00
5MHz		25	0	16.32	16.26	15.81	17.00
02		1	0	16.06	16.28	15.7	17.00
	16QAM	1	13	16.29	16.19	15.54	17.00
		1	24	15.53	15.82	15.75	17.00
		12	0	15.81	15.66	15.73	17.00
		12	6	15.59	15.8	15.85	17.00
		12	13	15.7	15.78	15.57	17.00
		25	0	15.54	15.75	15.47	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Darraman	modulation			20000	20175	20350	•
		1	0	15.81	15.54	15.72	17.00
		1	50	15.52	15.69	15.65	17.00
		1	99	15.75	15.67	15.74	17.00
	QPSK	50	0	15.75	15.69	15.74	17.00
		50	25	15.66	15.6	15.61	17.00
		50	50	15.55	15.7	15.72	17.00
10MHz		100	0	16.38	16.17	15.84	17.00
. 5.1411 12		1	0	16.06	16.24	15.75	17.00
		1	50	16.19	16.13	15.55	17.00
		1	99	15.63	15.67	15.73	17.00
	16QAM	50	0	15.8	15.84	15.72	17.00
		50	25	15.54	15.68	15.76	17.00
		50	50	15.65	15.75	15.52	17.00
		100	0	15.66	15.73	15.57	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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I				20025	20175	20325	
		1	0	15.85	15.65	15.64	17.00
		1	38	15.67	15.69	15.64	17.00
		1	74	15.62	15.54	15.82	17.00
	QPSK	36	0	15.63	15.63	15.74	17.00
		36	18	15.6	15.6	15.55	17.00
		36	39	15.6	15.61	15.66	17.00
15MHz		75	0	16.28	16.29	15.84	17.00
I DIVITZ		1	0	16.05	16.19	15.76	17.00
		1	38	16.17	16.12	15.67	17.00
		1	74	15.73	15.69	15.7	17.00
	16QAM	36	0	15.9	15.7	15.54	17.00
		36	18	15.65	15.83	15.84	17.00
		36	39	15.66	15.75	15.52	17.00
		75	0	15.7	15.59	15.45	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwidin	Modulation	IND SIZE	ND Ollset	20050	20175	20300	Turie up
		1	0	16.32	15.65	15.52	17.00
		1	50	15.52	16.12	15.51	17.00
		1	99	15.67	15.54	16.1	17.00
	QPSK	50	0	16.09	16.1	16.05	17.00
		50	25	15.62	15.61	15.57	17.00
		50	50	15.67	15.69	15.53	17.00
20MHz		100	0	16.31	16.16	15.79	17.00
20111112		1	0	15.98	16.14	15.84	17.00
		1	50	16.19	16.16	15.56	17.00
		1	99	15.53	15.77	15.62	17.00
	16QAM	50	0	15.81	15.85	15.74	17.00
		50	25	15.61	15.83	15.73	17.00
		50	50	15.78	15.72	15.69	17.00
		100	0	15.52	15.63	15.6	17.00

	LTE Band 4 S	Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung un
Dariuwiuiri	IVIOGUIALIOTI	Rb size Rb oilset	19957	20175	20393	Tune up	
	1	0	19.56	19.42	19.44	21.00	
		1	2	19.55	19.70	19.64	21.00
		1	5	19.49	19.57	19.56	21.00
	QPSK	3	0	19.64	19.64	19.80	21.00
1.4MHz		3	1	19.77	19.75	19.62	21.00
1.4IVI⊓Z		3	3	19.79	19.67	19.71	21.00
		6	0	19.68	19.65	19.57	21.00
		1	0	19.58	19.68	19.65	21.00
	16QAM	1	2	19.67	19.68	19.65	21.00
		1	5	19.44	19.58	19.69	21.00



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	1	3	0	19.66	19.51	19.61	21.00
		3	1	19.64	19.70	19.71	21.00
		3	3	19.76	19.65	19.77	21.00
		6	0	19.78	19.73	19.56	21.00
		0	0	Channel	Channel	Channel	21.00
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	19.60	19.48	19.62	21.00
		1	7	19.65	19.80	19.74	21.00
		1	14	19.42	19.53	19.56	21.00
	QPSK	8	0	19.78	19.68	19.75	21.00
	QFSK	8	4	19.78	19.64	19.75	
		8	7	19.79	19.59	19.33	21.00
			0				21.00
3MHz		15		19.73	19.73	19.66	21.00
		1	7	19.51	19.57	19.63	21.00
		1		19.67	19.58	19.57	21.00
	400414	1	14	19.56	19.62	19.60	21.00
	16QAM	8	0	19.56	19.72	19.55	21.00
		8	4	19.65	19.67	19.64	21.00
		8	7	19.84	19.59	19.66	21.00
		15	0	19.72	19.63	19.68	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	•
		1	0	19.68	19.43	19.46	21.00
		1	13	19.67	19.67	19.64	21.00
	QPSK	1	24	19.58	19.59	19.52	21.00
		12	0	19.64	19.75	19.84	21.00
		12	6	19.87	19.76	19.67	21.00
		12	13	19.75	19.60	19.79	21.00
5MHz		25	0	19.66	19.80	19.57	21.00
OIVII 12		1	0	19.54	19.71	19.54	21.00
		1	13	19.64	19.55	19.57	21.00
		1	24	19.56	19.54	19.60	21.00
	16QAM	12	0	19.59	19.64	19.67	21.00
		12	6	19.63	19.72	19.78	21.00
		12	13	19.68	19.54	19.71	21.00
		25	0	19.75	19.60	19.72	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungung
Danuwiulii	iviouuialioii	LD SIZE	LD OUSEL	20000	20175	20350	Tune up
		1	0	19.73	19.72	19.70	21.00
		1	50	19.74	19.84	19.71	21.00
		1	99	19.58	19.60	19.63	21.00
	QPSK	50	0	19.78	19.70	19.74	21.00
10MHz		50	25	19.70	19.66	19.79	21.00
		50	50	19.68	19.65	19.81	21.00
		100	0	19.70	19.76	19.76	21.00
	400 414	1	0	19.54	19.52	19.83	21.00
	16QAM	1	50	19.71	19.66	19.72	21.00



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		1	99	19.67	19.70	19.65	21.00
		50	0	19.72	19.75	19.67	21.00
		50	25	19.58	19.82	19.80	21.00
		50	50	19.75	19.81	19.70	21.00
		100	0	19.57	19.83	19.74	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danawiain	iviodulation	RD SIZE	RD Ollset	20025	20175	20325	Tune up
		1	0	19.68	19.53	19.52	21.00
		1	38	19.60	19.69	19.72	21.00
		1	74	19.41	19.61	19.48	21.00
	QPSK	36	0	19.77	19.79	19.80	21.00
		36	18	19.72	19.78	19.57	21.00
		36	39	19.81	19.71	19.81	21.00
15MHz		75	0	19.72	19.81	19.58	21.00
I DIVITZ		1	0	19.54	19.70	19.61	21.00
		1	38	19.68	19.58	19.51	21.00
		1	74	19.62	19.57	19.75	21.00
	16QAM	36	0	19.66	19.68	19.63	21.00
		36	18	19.77	19.62	19.76	21.00
		36	39	19.51	19.60	19.76	21.00
		75	0	19.64	19.70	19.63	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danawiain	iviodulation	RD SIZE	RD Ollset	20050	20175	20300	Tune up
		1	0	19.57	19.46	19.54	21.00
		1	50	19.61	19.70	19.67	21.00
		1	99	19.51	19.54	19.48	21.00
	QPSK	50	0	19.75	19.77	19.73	21.00
		50	25	19.70	19.73	19.65	21.00
		50	50	19.71	19.67	19.71	21.00
20141-		100	0	19.62	19.61	19.60	21.00
20MHz		1	0	19.56	19.66	19.61	21.00
		1	50	19.62	19.58	19.55	21.00
		1	99	19.52	19.60	19.68	21.00
	16QAM	50	0	19.66	19.73	19.65	21.00
		50	25	19.72	19.71	19.72	21.00
		50	50	19.75	19.55	19.67	21.00
		100	0	19.72	19.70	19.63	21.00

	LTE Band 5 Re		Conducted I	Power(dBm)			
Bandwidth	Bandwidth Modulation		RB offset	Channel	Channel	Channel	Tune up
Danuwiuin	Modulation	RB size I	KD Ollset	20407	20525	20643	rune up
		1	0	23.32	23.24	23.38	24.50
1.4MHz	ODCK	1	2	23.34	23.21	23.44	24.50
1.41/1172	QPSK	1	5	23.05	23.07	22.97	24.50
		3	0	23.45	23.47	23.37	24.50



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İ	I	1 -	l <u>-</u>	l	l	l	1
		3	2	23.22	23.29	23.45	24.50
		3	3	23.06	23.33	23.37	24.50
		6	0	22.29	22.36	22.26	23.50
		1	0	22.39	22.31	22.19	23.50
		1	2	22.38	22.43	22.26	23.50
		1	5	22.39	22.57	22.00	23.50
	16QAM	3	0	22.34	22.42	22.36	23.50
		3	2	22.25	22.43	22.51	23.50
		3	3	22.31	22.35	22.06	23.50
		6	0	21.29	21.35	21.15	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawian	Modulation	ND 3120	ND onset	20415	20525	20635	Tune up
		1	0	23.21	23.32	23.38	24.50
		1	7	23.31	23.23	23.26	24.50
		1	14	23.06	23.00	23.11	24.50
	QPSK	8	0	22.76	22.82	22.54	23.50
		8	4	22.59	22.69	22.57	23.50
		8	7	22.28	22.35	22.24	23.50
OM1.1-		15	0	22.43	22.36	22.34	23.50
3MHz		1	0	22.25	22.24	22.24	23.50
		1	7	22.32	22.31	22.27	23.50
		1	14	22.32	22.56	22.10	23.50
	16QAM	8	0	21.51	21.59	22.38	22.50
		8	4	22.13	22.48	21.64	22.50
		8	7	21.31	21.42	21.13	22.50
		15	0	21.43	21.30	21.18	22.50
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	23.27	23.33	23.47	24.50
		1	13	23.35	23.19	23.44	24.50
		1	24	23.22	23.15	22.95	24.50
	QPSK	12	0	22.79	22.91	22.63	23.50
	<u> </u>	12	6	22.54	22.59	22.57	23.50
		12	13	22.30	22.42	22.25	23.50
		25	0	22.39	22.30	22.15	23.50
5MHz		1	0	22.19	22.16	22.13	23.50
		1	13	22.31	22.46	22.23	23.50
		1	24	22.38	22.58	22.14	23.50
	16QAM	12	0	21.49	22.42	22.37	22.50
	. 0 9, 111	12	6	22.25	22.47	21.56	22.50
		12	13	21.25	21.42	21.24	22.50
		25	0	21.37	21.40	21.07	22.50
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20450	20525	20600	Tune up
		1	0	23.25	23.25	23.39	24.50
10MHz	QPSK	1	25	23.23	23.26	23.35	24.50
I OIVII IZ	QI OIL						
		1	49	23.12	23.08	23.04	24.50



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	25	0	22.74	22.82	22.62	23.50
	25	13	22.60	22.67	22.58	23.50
	25	25	22.34	22.41	22.25	23.50
	50	0	22.33	22.38	22.24	23.50
	1	0	22.29	22.24	22.16	23.50
	1	25	22.30	22.36	22.25	23.50
	1	49	22.34	22.57	22.04	23.50
16QAM	25	0	21.56	22.49	22.40	22.50
	25	13	22.15	22.45	21.60	22.50
	25	25	21.24	21.47	21.16	22.50
	50	0	21.38	21.37	21.14	22.50

	LTE Band 5 Re	eceiver on		Conducted Power(dBm)			
Dana dani dala	NA - de de dé - co	DD -:	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20407	20525	20643	Tune up
		1	0	22.27	22.35	22.39	23.50
		1	2	22.10	21.92	22.17	23.50
		1	5	22.15	22.05	22.21	23.50
	QPSK	3	0	22.23	22.06	22.20	23.50
		3	2	22.27	22.12	22.19	23.50
		3	3	22.01	22.24	22.18	23.50
1.4MHz		6	0	22.58	22.41	22.32	23.50
1.4101112		1	0	22.07	22.21	22.08	23.50
		1	2	22.57	22.06	22.56	23.50
		1	5	22.13	22.19	22.09	23.50
	16QAM	3	0	22.39	22.48	22.31	23.50
		3	2	22.28	22.21	22.38	23.50
		3	3	22.11	22.07	22.21	23.50
		6	0	22.16	22.26	21.99	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dariuwiuiri	iviodulation	ND SIZE	VD 011261	20415	20525	20635	rune up
		1	0	22.23	22.33	22.53	23.50
		1	7	22.17	21.91	22.07	23.50
		1	14	22.20	22.00	22.26	23.50
	QPSK	8	0	22.16	22.08	22.17	23.50
		8	4	22.24	22.03	22.32	23.50
		8	7	22.15	22.13	22.20	23.50
3MHz		15	0	22.63	22.47	22.26	23.50
SIVITIZ		1	0	21.91	22.05	22.20	23.50
		1	7	22.48	22.16	22.57	23.50
		1	14	22.18	22.16	22.24	23.50
	16QAM	8	0	21.43	21.30	21.26	22.50
		8	4	21.27	21.11	21.24	22.50
		8	7	21.23	21.12	21.36	22.50
		15	0	22.06	22.29	21.94	22.50



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	l		55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	22.12	22.16	22.44	23.50
		1	13	22.07	21.99	22.05	23.50
		1	24	22.15	22.07	22.10	23.50
	QPSK	12	0	22.27	22.03	22.12	23.50
		12	6	22.26	22.00	22.53	23.50
		12	13	21.98	22.14	22.18	23.50
EMLI-		25	0	22.51	22.34	22.19	23.50
5MHz		1	0	21.93	22.07	22.04	23.50
		1	13	22.49	22.02	22.13	23.50
		1	24	22.21	22.19	22.19	23.50
	16QAM	12	0	21.28	21.48	21.21	22.50
		12	6	21.22	21.16	21.29	22.50
		12	13	21.26	21.27	21.19	22.50
		25	0	22.07	22.18	21.82	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	Modulation	KD SIZE	KD 0115et	20450	20525	20600	Tune up
		1	0	22.22	22.25	22.44	23.50
		1	25	22.10	22.00	22.09	23.50
		1	49	22.17	22.10	22.17	23.50
	QPSK	25	0	22.25	22.07	22.21	23.50
		25	13	22.26	22.07	22.28	23.50
		25	25	22.05	22.14	22.19	23.50
10MHz		50	0	22.58	22.41	22.26	23.50
IOIVITZ		1	0	22.01	22.13	22.10	23.50
		1	25	22.52	22.09	22.54	23.50
		1	49	22.20	22.10	22.19	23.50
	16QAM	25	0	21.34	21.40	21.30	22.50
		25	13	21.21	21.21	21.32	22.50
		25	25	21.18	21.17	21.26	22.50
		50	0	22.15	22.25	21.92	22.50

	LTE Band 7 Re	Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwiuin	IVIOGUIALION	KD SIZE	KD Ollset	20775	21100	21425	Tune up
	1	0	22.88	22.91	22.84	24.00	
		1	13	23.00	22.76	22.89	24.00
		1	24	22.90	22.71	22.88	24.00
	QPSK	12	0	21.54	21.42	21.13	23.00
5MHz		12	6	21.98	21.84	21.49	23.00
		12	13	21.59	21.37	22.43	23.00
		25	0	21.13	21.01	21.03	23.00
	16QAM	1	0	21.25	21.04	21.05	23.00
	IOQAW	1	13	21.33	21.17	21.21	23.00



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		1	24	21.21	21.07	21.07	23.00
		12	0	20.84	20.81	20.81	22.00
		12	6	20.95	20.93	20.92	22.00
		12	13	21.09	20.90	20.99	22.00
		25	0	20.22	20.00	20.30	22.00
5			55 "	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20800	21100	21400	Tune up
		1	0	22.92	22.80	22.80	24.00
		1	25	22.86	22.90	22.93	24.00
		1	49	22.83	22.69	22.74	24.00
	QPSK	25	0	21.49	21.27	21.14	23.00
		25	13	21.98	21.86	21.51	23.00
		25	25	21.43	21.38	22.40	23.00
408411		50	0	21.26	21.09	21.21	23.00
10MHz		1	0	21.34	21.07	21.04	23.00
		1	25	21.36	21.13	21.25	23.00
		1	49	21.16	21.26	21.20	23.00
	16QAM	25	0	20.96	21.31	20.74	22.00
		25	13	21.02	21.07	21.01	22.00
		25	25	21.08	20.94	20.96	22.00
		50	0	20.14	20.20	20.37	22.00
6 - 1 - 141	84 114		55 "	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20825	21100	21375	Tune up
		1	0	22.90	22.93	22.89	24.00
		1	38	22.90	22.71	22.78	24.00
	QPSK	1	74	22.84	22.74	22.88	24.00
		36	0	21.49	21.31	21.18	23.00
		36	18	21.79	21.83	21.52	23.00
		36	39	21.62	21.37	22.51	23.00
4 CN 41 I-		75	0	21.33	21.10	21.04	23.00
15MHz		1	0	21.23	21.01	21.12	23.00
		1	38	21.24	21.04	21.12	23.00
		1	74	21.20	21.14	21.11	23.00
	16QAM	36	0	20.91	20.89	20.87	22.00
		36	18	20.99	20.98	20.84	22.00
		36	39	20.90	21.01	20.86	22.00
		75	0	20.18	20.01	20.38	22.00
Donddth	Modulation	DD ai-a	DD 6#554	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20850	21100	21350	Tune up
		1	0	22.92	22.84	22.83	24.00
		1	50	22.92	22.93	22.88	24.00
		1	99	22.90	22.72	22.80	24.00
201411-	QPSK	50	0	21.56	21.89	21.23	23.00
20MHz		50	25	21.88	21.84	21.44	23.00
		50	50	21.53	21.29	21.46	23.00
		100	0	21.23	21.03	21.13	23.00
	16QAM	1	0	21.32	21.07	21.10	23.00



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1	50	21.27	21.07	21.20	23.00
1	99	21.22	21.02	21.14	23.00
50	0	20.92	20.91	20.84	22.00
50	25	20.98	20.97	20.93	22.00
50	50	20.99	20.95	20.96	22.00
100	0	20.15	20.10	20.28	22.00

	LTE Band 7 Re	eceiver on			Conducted I	Power(dBm)	
D 1 1 111			55 " .	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20775	21100	21425	Tune up
		1	0	17.47	17.34	17.29	18.50
		1	13	17.55	17.46	17.30	18.50
		1	24	17.47	17.26	17.37	18.50
	QPSK	12	0	17.67	17.50	17.35	18.50
		12	6	17.65	17.46	17.51	18.50
		12	13	17.48	17.49	17.49	18.50
- N 41 1		25	0	17.53	17.46	17.44	18.50
5MHz		1	0	17.43	17.25	17.04	18.50
		1	13	17.63	17.36	17.26	18.50
		1	24	17.45	17.18	17.22	18.50
	16QAM	12	0	17.57	17.38	17.41	18.50
		12	6	17.66	17.35	17.55	18.50
		12	13	17.43	17.46	17.53	18.50
		25	0	17.58	17.50	17.44	18.50
Dana da dalla	Madulation	DD -:	DD -#	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20800	21100	21400	Tune up
		1	0	17.39	17.42	17.37	18.50
	QPSK	1	25	17.62	17.62	17.56	18.50
		1	49	17.47	17.41	17.42	18.50
		25	0	17.61	17.52	17.50	18.50
		25	13	17.58	17.46	17.51	18.50
		25	25	17.54	17.45	17.54	18.50
10MHz		50	0	17.59	17.52	17.50	18.50
TUIVITZ		1	0	17.46	17.61	17.38	18.50
		1	25	17.57	17.51	17.61	18.50
		1	49	17.57	17.58	17.57	18.50
	16QAM	25	0	17.59	17.44	17.41	18.50
		25	13	17.54	17.54	17.53	18.50
		25	25	17.48	17.51	17.49	18.50
		50	0	17.55	17.60	17.49	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up
Danuwiuin	iviouulatioi1	VD SIZE	VD 011261	20825	21100	21375	Tune up
		1	0	17.56	17.33	17.36	18.50
15MHz	QPSK	1	38	17.55	17.48	17.47	18.50
		1	74	17.47	17.39	17.53	18.50



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1	l	1	l -	l	1	l	I
		36	0	17.63	17.51	17.41	18.50
		36	18	17.61	17.56	17.51	18.50
		36	39	17.71	17.56	17.61	18.50
		75	0	17.61	17.56	17.45	18.50
		1	0	17.64	17.28	17.31	18.50
		1	38	17.24	16.88	16.91	18.50
		1	74	17.37	17.00	17.13	18.50
	16QAM	36	0	17.25	17.32	17.30	18.50
		36	18	17.62	17.58	17.61	18.50
		36	39	17.63	17.49	17.56	18.50
		75	0	17.69	17.46	17.56	18.50
Dana aliculatib	Madulatian	DD ai-a	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20850	21100	21350	Tune up
		1	0	17.80	17.32	17.36	18.50
		1	50	17.67	17.44	17.71	18.50
		1	99	17.47	17.52	17.50	18.50
	QPSK	50	0	17.67	17.44	17.50	18.50
		50	25	17.63	17.48	17.58	18.50
		50	50	17.70	17.56	17.55	18.50
001411		100	0	17.61	17.50	17.51	18.50
20MHz		1	0	17.66	17.66	17.69	18.50
		1	50	17.70	17.54	17.63	18.50
		1	99	17.66	17.65	17.49	18.50
	16QAM	50	0	17.64	17.44	17.45	18.50
		50	25	17.65	17.58	17.60	18.50
		50	50	17.56	17.56	17.57	18.50
		100	0	17.66	17.53	17.54	18.50

	LTE Band 7 S	Conducted Power(dBm)					
Bandwidth	Modulation	RB size	DD -#+	Channel	Channel	Channel	Tung up
Dariuwiuiri	iviodulation	KD SIZE	RB offset	20775	21100	21425	Tune up
		1	0	19.90	19.77	19.91	21.00
		1	13	20.04	19.95	20.01	21.00
		1	24	19.95	19.82	19.91	21.00
	QPSK	12	0	20.13	20.00	19.90	21.00
		12	6	20.07	19.97	20.04	21.00
		12	13	20.10	20.02	19.99	21.00
5MHz		25	0	20.13	19.96	19.97	21.00
SIVITZ		1	0	20.03	19.94	19.99	21.00
		1	13	20.00	20.03	19.98	21.00
		1	24	19.97	19.96	19.95	21.00
16QAN	16QAM	12	0	20.12	19.92	19.89	21.00
		12	6	20.08	19.97	20.03	21.00
		12	13	20.06	19.94	20.02	21.00
		25	0	20.09	20.04	20.00	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	·
		1	0	19.99	19.67	19.94	21.00
		1	25	19.94	19.94	20.01	21.00
	27211	1	49	19.94	19.91	19.89	21.00
	QPSK	25	0	20.19	20.10	19.96	21.00
		25	13	20.12	19.96	19.96	21.00
		25	25	20.10	20.10	19.89	21.00
10MHz		50	0	20.19	19.99	20.04	21.00
-		1	0	19.98	19.99	19.90	21.00
		1	25	20.04	19.95	19.88	21.00
		1	49	19.97	19.93	19.93	21.00
	16QAM	25	0	20.09	20.02	19.83	21.00
		25	13	20.12	19.91	19.94	21.00
		25	25	20.01	20.04	20.11	21.00
		50	0	20.13	19.98	19.97	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Barrawian	modulation	112 0.20		20825	21100	21375	
		1	0	19.97	20.17	20.00	21.00
		1	38	19.94	19.92	20.03	21.00
	QPSK	1	74	20.02	19.74	19.85	21.00
		36	0	20.07	19.95	19.86	21.00
		36	18	20.02	20.01	20.04	21.00
		36	39	20.05	20.03	19.93	21.00
15MHz		75	0	20.05	20.06	20.02	21.00
TOWNIE	16QAM	1	0	20.02	19.87	19.93	21.00
		1	38	20.04	20.10	19.89	21.00
		1	74	20.05	20.02	19.97	21.00
		36	0	20.12	19.85	19.90	21.00
		36	18	20.07	19.92	20.07	21.00
		36	39	20.16	19.93	19.95	21.00
		75	0	20.16	19.97	19.92	21.00
	andwidth Modulation	RB size	RB offset	Channel	Channel	Channel	Tune un
Danuwiulii		iviouuiatioii f	1/0 9170		20850	21100	21350
	QPSK	1	0	19.94	19.80	19.85	21.00
20MHz		1	50	20.04	20.11	20.04	21.00
		1	99	19.87	20.09	19.87	21.00
		50	0	20.16	20.17	19.98	21.00
		50	25	20.03	19.94	19.97	21.00
		50	50	20.03	20.02	19.99	21.00
		100	0	20.13	19.89	19.96	21.00
	400.444	1	0	20.12	20.04	20.00	21.00
		1	50	20.07	19.94	20.03	21.00
		1	99	19.97	19.97	19.86	21.00
	16QAM	50	0	20.05	19.84	19.87	21.00
		50	25	19.98	19.90	20.03	21.00
		50	50	20.05	19.92	20.02	21.00



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20.18 20.03 19.92 100 0 21.00



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LTE Band 38 Receiver off				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up	
		1	0	23.53	23.28	23.46	24.00	
		1	13	23.48	23.51	23.51	24.00	
	QPSK	1	24	23.28	23.18	23.33	24.00	
		12	0	22.21	22.34	22.27	23.00	
		12	6	22.30	22.34	22.34	23.00	
		12	13	22.20	22.20	22.22	23.00	
		25	0	22.25	22.30	22.13	23.00	
5MHz		1	0	22.47	22.15	22.65	23.00	
		1	13	22.29	22.47	22.58	23.00	
		1	24	22.20	22.32	22.17	23.00	
	16QAM	12	0	21.17	21.19	21.32	22.00	
		12	6	21.15	21.35	21.37	22.00	
		12	13	21.14	21.25	21.35	22.00	
		25	0	21.17	21.34	21.20	22.00	
			RB offset	Channel	Channel	Channel	Tune up	
Bandwidth	Modulation	RB size		37800	38000	38200		
		1	0	23.51	23.40	23.48	24.00	
	QPSK	1	25	23.51	23.48	23.39	24.00	
		1	49	23.29	23.35	23.37	24.00	
		25	0	22.21	22.18	22.15	23.00	
		25	13	22.16	22.39	22.16	23.00	
		25	25	22.30	22.20	22.19	23.00	
408411		50	0	22.32	22.22	22.29	23.00	
10MHz		1	0	22.55	22.08	22.65	23.00	
	16QAM	1	25	22.35	22.53	22.44	23.00	
		1	49	22.17	22.25	22.18	23.00	
		25	0	21.10	21.17	21.27	22.00	
		25	13	21.29	21.32	21.32	22.00	
		25	25	21.07	21.19	21.25	22.00	
		50	0	21.05	21.28	21.22	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danuwium	iviodulation	ND SIZE	VD 011261	37825	38000	38175	rune up	
	QPSK	1	0	23.47	23.31	23.42	24.00	
		1	38	23.42	23.48	23.44	24.00	
		1	74	23.29	23.28	23.27	24.00	
		36	0	22.22	22.26	22.22	23.00	
15MHz		36	18	22.26	22.40	22.24	23.00	
		36	39	22.25	22.24	22.23	23.00	
		75	0	22.28	22.25	22.22	23.00	
	16QAM	1	0	22.49	22.17	22.69	23.00	
		1	38	22.33	22.47	22.50	23.00	
		1	74	22.25	22.24	22.23	23.00	



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1		36	0	21.07	21.18	21.25	22.00
		36	18	21.25	21.35	21.32	22.00
		36	39	21.11	21.27	21.35	22.00
		75	0	21.13	21.31	21.22	22.00
Down alvei alth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth				37850	38000	38150	
		1	0	23.45	23.26	23.32	24.00
	QPSK	1	50	23.32	23.55	23.41	24.00
		1	99	23.22	23.38	23.30	24.00
		50	0	22.12	22.45	22.18	23.00
		50	25	22.17	22.46	22.14	23.00
		50	50	22.19	22.14	22.21	23.00
20MHz		100	0	22.30	22.19	22.12	23.00
ZUIVITZ		1	0	22.53	22.07	22.74	23.00
		1	50	22.40	22.40	22.55	22.00 22.00 22.00 Tune up 24.00 24.00 23.00 23.00 23.00 23.00
		1	99	22.27	22.23	22.16	
	16QAM	50	0	20.98	21.22	21.23	22.00
		50	25	21.30	21.27	21.34	22.00
		50	50	21.11	21.27	21.38	22.00
		100	0	21.09	21.41	21.29	22.00

LTE Band 38 Receiver on				Conducted Power(dBm)				
Bandwidth Modu	Madulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
	Modulation			37775	38000	38225		
		1	0	20.89	21.07	21.17	22.00	
		1	13	20.71	20.77	20.91	22.00	
		1	24	20.7	20.9	20.95	22.00	
	QPSK	12	0	20.62	20.98	21.03	22.00	
		12	6	20.71	20.86	20.99	22.00	
		12	13	20.76	20.85	20.86	22.00	
5MHz		25	0	20.55	20.67	20.12	22.00	
SIVITZ	16QAM	1	0	20.76	20.94	20.15	22.00	
		1	13	20.64	20.82	20.05	22.00	
		1	24	20.87	20.84	20.18	22.00	
		12	0	20.82	20.97	20.2	22.00	
		12	6	20.76	20.87	20	22.00	
		12	13	20.69	20.88	20.06	22.00	
		25	0	20.66	20.73	20.2	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Dariuwiuiri				37800	38000	38200		
10MHz	QPSK	1	0	20.93	21.13	21.08	22.00	
		1	25	20.62	20.77	20.96	22.00	
		1	49	20.83	20.8	21.01	22.00	
		25	0	20.63	20.88	21.04	22.00	
		25	13	20.71	20.91	20.94	22.00	



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		25	25	20.68	20.71	21.03	22.00							
		50	0	20.62	20.73	20.22	22.00							
		1	0	20.81	21.04	20.29	22.00							
		1	25	20.71	20.8	20.02	22.00							
		1	49	20.75	21.02	20.2	22.00							
	16QAM	25	0	20.84	20.88	20.31	22.00							
		25	13	20.77	20.77	20.03	22.00							
		25	25	20.68	20.83	20.2	22.00							
		50	0	20.62	20.78	20.21	22.00							
Dan alveidtle	Madulatian	DD -:	DD -#	Channel	Channel	Channel	T							
Bandwidth	Modulation	RB size	RB offset	37825	38000	38175	Tune up							
		1	0	20.91	21.08	21.13	22.00							
		1	38	20.63	20.76	21	22.00							
		1	74	20.79	20.89	20.99	22.00							
	QPSK	36	0	20.62	20.84	20.93	22.00							
		36	18	20.67	20.92	20.87	22.00							
		36	39	20.79	20.72	20.86	22.00							
15MHz		75	0	20.42	20.7	20.19	22.00							
I DIVITZ	16QAM	1	0	20.82	20.86	20.15	22.00							
		1	38	20.6	20.82	20.01	22.00							
		1	74	20.82	20.87	20.32	22.00							
		36	0	20.79	21.05	20.22	22.00							
				36	18	20.78	20.77	20.11	22.00					
												36	39	20.72
		75	0	20.69	20.83	20.3	22.00							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up							
Dandwidth	Modulation	IND SIZE	ND Ollset	37850	38000	38150	rune up							
		1	0	20.84	21.07	21.14	22.00							
		1	50	21.00	21.13	21.12	22.00							
		1	99	20.77	20.87	21.02	22.00							
	QPSK	50	0	20.80	21.00	21.01	22.00							
		50	25	20.71	20.82	20.93	22.00							
		50	50	20.77	20.79	20.96	22.00							
20MHz		100	0	20.52	20.63	20.12	22.00							
ZOIVII IZ	20MHz		0	20.85	20.94	20.19	22.00							
		1	50	20.69	20.79	20.01	22.00							
		1	99	20.77	20.93	20.27	22.00							
	16QAM	50	0	20.81	20.95	20.27	22.00							
		50	25 50	20.77	20.87	20.08	22.00							
		50		20.78	20.92	20.10	22.00							
		100	0	20.63	20.76	20.25	22.00							



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	LTE Band 38 S	Sensor on			Conducted I	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
		1	0	21.92	22.05	22.13	23.00
		1	13	21.95	22.14	22.26	23.00
		1	24	21.96	22.10	22.15	23.00
	QPSK	12	0	22.03	22.15	22.14	23.00
		12	6	22.10	22.22	22.13	23.00
		12	13	21.99	22.03	21.99	23.00
5 A 1 1		25	0	21.92	22.20	22.07	23.00
5MHz		1	0	22.10	21.99	22.02	23.00
		1	13	21.97	21.98	22.07	23.00
		1	24	22.02	22.06	21.94	23.00
	16QAM	12	0	21.68	21.82	21.84	23.00
		12	6	21.73	21.95	21.91	23.00
		12	13	21.73	21.79	21.94	23.00
		25	0	21.71	21.86	21.90	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Wodulation	ND SIZE	VD 011261	37800	38000	38200	Turie up
		1	0	21.91	22.07	22.08	23.00
		1	25	22.07	22.13	22.10	23.00
		1	49	22.03	21.97	22.03	23.00
	QPSK	25	0	22.05	22.11	22.10	23.00
		25	13	22.23	22.19	22.09	23.00
		25	25	22.04	22.01	22.03	23.00
10MHz		50	0	21.94	22.02	21.96	23.00
TOWN 12		1	0	21.95	22.00	22.14	23.00
		1	25	22.15	22.18	22.08	23.00
		1	49	22.08	22.02	21.85	23.00
	16QAM	25	0	21.63	21.68	21.92	23.00
		25	13	21.73	21.84	22.11	23.00
		25	25	21.82	21.81	21.93	23.00
		50	0	21.69	21.82	22.04	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
- Danawian	modulation	112 0.20		37825	38000	38175	·
		1	0	21.86	22.01	22.20	23.00
		1	38	22.00	22.16	22.26	23.00
		1	74	21.98	22.05	22.10	23.00
	QPSK	36	0	22.02	22.15	22.17	23.00
15MHz		36	18	22.14	22.18	22.07	23.00
-		36	39	22.04	22.09	22.21	23.00
		75	0	22.02	22.10	22.24	23.00
	,	1	0	22.02	22.02	22.23	23.00
	16QAM	1	38	22.20	22.21	22.08	23.00
		1	74	22.04	22.11	21.93	23.00



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1	1	1	1	1	1	•	1
		36	0	21.61	21.78	21.94	23.00
		36	18	21.79	21.86	22.01	23.00
		36	39	21.72	21.82	21.97	23.00
		75	0	21.79	21.89	21.96	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Dariuwiuiri	Modulation	KD SIZE	KD Ollset	37850	38000	38150	Tune up
		1	0	21.82	22.10	22.13	23.00
		1	50	22.30	22.33	22.24	23.00
	QPSK	1	99	22.07	22.12	22.06	23.00
		50	0	22.03	22.22	22.11	23.00
		50	25	22.04	22.23	22.06	23.00
		50	50	22.10	22.15	22.16	23.00
20MHz		100	0	22.06	22.09	22.18	23.00
ZUIVITZ		1	0	22.11	21.92	22.08	23.00
		1	50	22.05	22.09	22.01	23.00
		1	99	21.95	22.10	21.88	23.00
	16QAM	50	0	21.55	21.83	21.85	23.00
		50	25	21.79	21.87	22.09	23.00
		50	50	21.76	21.78	22.02	23.00
		100	0	21.77	21.83	21.90	23.00

Table 15: Conducted Power of LTE



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8.1.3 Conducted Power of Uplink & Downlink LTE CA

The following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C were used.

8.1.3.1 Conducted Power of Uplink LTE CA

Main Antenna(Ant1):

IVIAIII AIIL	inia(/ titt	· /·														
	Ant1															
		PCC						SCC				Sensor off		Sensor on		
Combination	Modulation	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune- up(dBm)	Power	Tune- up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	22.71	24.00	18.70	20.00
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	22.69	24.00	18.63	20.00
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	22.75	24.00	18.52	20.00
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	22.83	24.00	18.59	20.00
				PC	С			SCC					Sen	sor off	Sensor on	
Combination	Modulation	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune- up(dBm)	Power	Tune- up(dBm)
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	22.35	24.00	20.16	22.00
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	22.31	24.00	20.11	22.00
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	22.19	24.00	20.20	22.00
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	22.48	24.00	20.39	22.00

DIV Antenna(Ant2):

DIV Anter	ma(Amz	.).																
	Ant2																	
Combination	Modulation	PCC					SCC			off&Se	eiver ensor off	Rece	iver on	Sen	sor on			
Combination		Rand	BW (MHz)	UL Channel		UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune- up(dBm)	Power	Tune- up(dBm)	Power	Tune- up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	22.77	24.00	17.59	18.50	20.11	21.00
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	22.68	24.00	17.51	18.50	20.10	21.00
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	22.66	24.00	17.58	18.50	20.06	21.00
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	22.73	24.00	17.62	18.50	20.00	21.00
Combination	Modulation			PC	С				SCC			off&Se	eiver ensor off	Rece	iver on	Sen	sor on	
Combination		Rand	BW (MHz)	UL Channel		UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune- up(dBm)	Power	Tune- up(dBm)	Power	Tune- up(dBm)
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	23.18	24.00	20.71	22.00	22.11	23.00
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	23.25	24.00	20.83	22.00	22.20	23.00
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	23.21	24.00	20.79	22.00	22.19	23.00
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	23.30	24.00	20.82	22.00	22.21	23.00

Note

- 1) This device supports uplink carrier aggregation for LTE CA_7C, CA_38C with a maximum of two 20MHz component carriers.
- 2) According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 3) In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.



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4) Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.

Conducted Power of Downlink LTE CA 8.1.3.2

In this section, the following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A.Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded. Power test equipment: Anritsu Radio Communication Analyzer MT8821C

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

In applying the existing power measurement procedures for DL CA SAR test exclusion, the configurations that

require power measurements are highlighted in the table as below:

1 Band / 2CC	2 Bands / 2CC	2 Bands / 3CC
CA_7C		
CA_38C		

Note:

The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.



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8.1.4 Conducted Power of WIFI

	WIFI 2.4G Receiver off										
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up						
	1	2412		19.08	20.50						
802.11b	6	2437	1	19.71	20.50						
	11	2462		19.70	20.50						
	1	2412		17.40	18.50						
802.11g	6	2437	6	17.69	18.50						
	11	2462		17.82	18.50						
000.44.5	1	2412		12.40	13.50						
802.11n HT20	6	2437	6.5	12.85	13.50						
11120	11	2462	1	13.01	13.50						

	WIFI 2.4G Receiver on										
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up						
	1	2412		17.26	18.50						
802.11b	6	2437	1	17.85	18.50						
	11	2462		17.58	18.50						
	1	2412		16.88	18.50						
802.11g	6	2437	6	17.29	18.50						
	11	2462		17.68	18.50						
000 44	1	2412		11.98	13.50						
802.11n HT20	6	2437	6.5	12.46	13.50						
11120	11	2462		12.72	13.50						

Conducted Power of 2.4G WIFI Table 16:

	WIFI 5G Receiver off										
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up					
		36	5180		17.04	18.50					
	U-NII-1	40	5200		17.01	18.50					
	U-INII- I	44	5220		17.05	18.50					
		48	5240		17.07	18.50					
		52	5260		17.51	18.50					
	U-NII-2A	56	5280	6	17.38	18.50					
		60	5300		17.44	18.50					
802.11a		64	5320		17.35	18.50					
		100	5500		16.24	17.50					
		104	5520		16.27	17.50					
		108	5540		16.23	17.50					
	U-NII-2C	112	5560		16.39	17.50					
		116	5580		15.93	17.50					
		120	5600		16.38	17.50					
		124	5620		16.36	17.50					



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		128	5640	1	16.06	17.50
		132	5660		16.32	17.50
		136	5680		16.45	17.50
		140	5700		16.02	17.50
		144	5720		16.45	17.50
		149	5745		14.35	15.50
		153	5765		14.64	15.50
	U-NII-3	157	5785		14.54	15.50
		161	5805		14.41	15.50
		165	5825		14.55	15.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		13.71	15.50
	U-NII-1	40	5200		13.74	15.50
	0-1111-1	44	5220		13.61	15.50
		48	5240	_	13.65	15.50
		52	5260		14.26	15.50
	U-NII-2A	56	5280	_	14.12	15.50
	0 m 2 m	60	5300	-	13.93	15.50
		64	5320		13.98	15.50
		100	5500		14.22	15.50
		104	5520		14.06	15.50
		108	5540		14.08	15.50
802.11n-		112	5560		14.01	15.50
HT20		116	5580	MCS0	14.06	15.50
	U-NII-2C	120	5600		14.03	15.50
		124	5620	-	14.18	15.50
		128	5640	-	14.00 14.06	15.50
		132 136	5660 5680		14.00	15.50 15.50
		140	5700	-	14.13	15.50
		144	5720	-	14.14	15.50
		149	5745	-	14.00	15.50
		153	5765	_	14.05	15.50
	U-NII-3	157	5785		14.06	15.50
	0 1111 0	161	5805		14.09	15.50
		165	5825		14.07	15.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	11 800 4	38	5190		14.07	15.50
	U-NII-1	46	5230		14.06	15.50
	LLNULOA	54	5270		14.74	15.50
802.11n-	U-NII-2A	62	5310	MCS0	14.76	15.50
HT40		102	5510	IVICSU	14.09	15.50
	U-NII-2C	110	5550]	14.07	15.50
	U-INII-ZU	118	5590		14.24	15.50
		126	5630		14.14	15.50



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		134	5670		14.17	15.50
		142	5710		14.22	15.50
		151	5755		14.11	15.50
	U-NII-3	159	5795		14.12	15.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		12.15	13.50
	11 8111 4	40	5200		12.10	13.50
	U-NII-1	44	5220		12.03	13.50
		48	5240		11.98	13.50
		52	5260		12.60	13.50
		56	5280		12.43	13.50
	U-NII-2A	60	5300		12.37	13.50
		64	5320		12.52	13.50
		100	5500		12.08	13.50
		104	5520		12.21	13.50
		108	5540		12.09	13.50
		112	5560		12.06	13.50
802.11ac-		116	5580	MCS0	12.17	13.50
20		120	5600		12.21	13.50
	U-NII-2C	124	5620		12.15	13.50
		128	5640		12.32	13.50
		132	5660		12.06	13.50
		136	5680		12.13	13.50
		140	5700		12.12	13.50
		144	5720		12.32	13.50
		149	5745		12.29	13.50
		153	5765		12.13	13.50
	U-NII-3	157	5785		12.17	13.50
	0-1111-3	161	5805		12.23	13.50
		165	5825	-	12.33	13.50
					Average Power	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	(dBm)	Tune up
		38	5190		12.10	13.50
	U-NII-1	46	5230		12.00	13.50
		54	5270		12.40	13.50
	U-NII-2A	62	5310		12.38	13.50
		102	5510		12.03	13.50
802.11ac-		110	5550		12.08	13.50
40		118	5590	MCS0	12.19	13.50
	U-NII-2C	126	5630		12.15	13.50
		134	5670		12.00	13.50
		142	5710		12.15	13.50
		151	5755		12.11	13.50
	U-NII-3	159	5795		12.20	13.50
5011				D-1- D-1 (M)	Average Power	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	(dBm)	Tune up



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	U-NII-1	42	5210		12.01	13.50
802.11ac U-NII-2A	U-NII-2A	58	5290		12.84	13.50
		106	5530	MCS0	12.05	13.50
80M	U-NII-2C	122	5610	IVICSU	12.16	13.50
		138	5690		12.13	13.50
	U-NII-3	155	5775		12.05	13.50

			WIFI 5G Re	eceiver off		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		13.23	14.50
802.11a	U-NII-1	40	5200	6	13.31	14.50
002.11a	0-1111-1	44	5220		13.24	14.50
		48 5240		13.45	14.50	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	36 5180		5180		12.66	14.50
802.11n-	1n- 40 5200		5200	MCS0	12.69	14.50
HT20	T20 U-NII-1 44 5220		5220	MCSU	12.68	14.50
		48	5240		12.71	14.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-	U-NII-1	38	5190	MCS0	12.69	14.00
HT40	0-1111-1	46	5230	MCSU	12.59	14.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		12.15	13.50
802.11ac-	U-NII-1	40	5200	MCS0	12.10	13.50
20	0-1111-1	44	5220	MCSU	12.03	13.50
		48	5240		11.98	13.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac-	U-NII-1	38	5190	MCS0	12.10	13.50
40	U-INII- I	46	5230	IVICSU	12.00	13.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 80M	U-NII-1	42	5210	MCS0	12.01	13.50

	WIFI 5G Receiver on											
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up						
		100	5500		10.21	11.50						
		104	5520		10.08	11.50						
802.11a	U-NII-2C	108	5540	C	10.12	11.50						
002.11a	U-INII-2C	112	5560	6	10.12	11.50						
		116	5580		10.21	11.50						
		120	5600		10.16	11.50						



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1	İ	104	5000	l I	40.05	44.50
		124	5620	-	10.05	11.50
		128	5640	<u> </u>	10.16	11.50
		132	5660	_	10.08	11.50
		136	5680	<u> </u>	10.09	11.50
		140	5700		10.02	11.50
		144	5720	 -	10.23	11.50
		149	5745	-	10.22	11.50
		153	5765	-	10.33	11.50
	U-NII-3	157	5785	-	10.28	11.50
		161	5805		10.37	11.50
		165	5825		10.43	11.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		100	5500	_	10.14	11.50
		104	5520	_	10.09	11.50
		108	5540		10.02	11.50
		112	5560		10.19	11.50
		116	5580		10.13	11.50
	U-NII-2C	120	5600		10.26	11.50
	02.11n-	124	5620		10.03	11.50
000 44.5		128	5640		10.15	11.50
802.11n- HT20		132	5660	MCS0	10.06	11.50
11120			5680		10.16	11.50
		140	5700		10.05	11.50
		144	5720		10.24	11.50
		149	5745		10.30	11.50
		153	5765		10.25	11.50
	U-NII-3	157	5785		10.29	11.50
		161	5805		10.29	11.50
		165	5825		10.50	11.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		102	5510		10.01	11.50
		110	5550		10.02	11.50
		118	5590		9.95	11.50
802.11n-	U-NII-2C	126	5630	M000	10.05	11.50
HT40		134	5670	MCS0	9.96	11.50
		142	5710		10.08	11.50
		151	5755		10.08	11.50
	U-NII-3	159	5795		10.12	11.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		100	5500		10.22	11.50
902 4455		104	5520		10.01	11.50
802.11ac- 20	U-NII-2C	108	5540	MCS0	10.03	11.50
20		112	5560		10.11	11.50
		116	5580		10.10	11.50



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1	Ī	1 400		 	40.00	1 44 50
		120	5600		10.28	11.50
		124	5620		9.96	11.50
		128	5640		10.24	11.50
		132	5660		10.15	11.50
	136 140		5680		10.18	11.50
			5700		10.03	11.50
		144	5720		10.24	11.50
		149	5745		10.30	11.50
		153	5765		10.26	11.50
	U-NII-3	157	5785		10.21	11.50
		161	5805		10.19	11.50
		165	5825		10.51	11.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		102	5510		10.01	11.50
		110	5550		10.08	11.50
	U-NII-2C	118	5590		10.02	11.50
802.11ac-	U-MII-2C	126	5630	MCS0	10.00	11.50
40		134	5670	IVICSU	9.94	11.50
		142	5710		10.04	11.50
	U-NII-3	151	5755		10.07	11.50
	0-1111-3	159	5795		10.10	11.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	106 5530		5530		10.01	11.50
802.11ac	U-NII-2C	122	5610	MCCO	10.08	11.50
80M		138	5690	MCS0	10.01	11.50
	U-NII-3	155	5775		10.14	11.50

Table 17: Conducted Power of 5G WIFI

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
 - 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.



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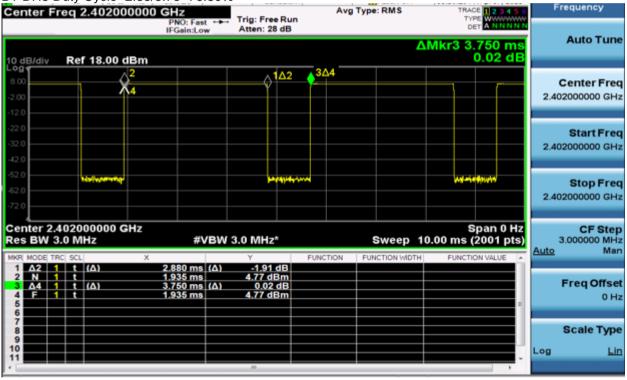
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8.1.5 Conducted Power of BT

	BT	Average Conducted Power(dBm)							
Band	Channel	annel 0		78	Tune up				
	GFSK	9.55	9.64	9.63	10.50				
BT	π/4DQPSK	7.01	7.14	7.08	9.00				
	8DPSK	7.01	7.05	7.07	9.00				
Band	Channel	0	19	39	Tune up				
BLE	GFSK	-3.40	-2.66	-3.41	-1.50				

Table 18: Conducted Power of BT

BT DH5 Duty Cycle=2.88/3.75=76.80%





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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency	Position	Average Power		Test Separation	Calculate	Exclusion	Exclusion
	(GHz)		dBm	mW	(mm)	Value	Threshold	(Y/N)
		Head	18.5	70.8	0	22.2	3	N
Wi-Fi	2.45	Body-worn	20.5	112.2	15	11.7	3	N
		hotspot	20.5	112.2	10	17.6	3	N
		Head	18.5	70.8	0	31.7	3	N
Wi-Fi	5	Body-worn	18.5	70.8	15	10.6	3	N
		hotspot	18.5	70.8	10	15.8	3	N
		Head	10.5	11.2	0	3.5	3	N
Bluetooth	2.48	Body-worn	10.5	11.2	15	1.2	3	Y
		hotspot	10.5	11.2	10	1.8	3	Υ

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, where

- 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

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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8.3 Measurement of SAR Data

8.3.1 SAR Result of GSM850

					ANT1 Tes	st Record				
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
					Head T	est data				
Left cheek	GSM	190/836.6	1:8.3	0.067	0.02	32.56	33.50	1.242	0.083	22.1
Left tilted	GSM	190/836.6	1:8.3	0.045	0.01	32.56	33.50	1.242	0.056	22.1
Right cheek	GSM	190/836.6	1:8.3	0.088	0.12	32.56	33.50	1.242	0.109	22.1
Right tilted	GSM	190/836.6	1:8.3	0.048	-0.02	32.56	33.50	1.242	0.060	22.1
	Head Test data at the worst case with Battery2#									
Right cheek	GSM	190/836.6	1:8.3	0.086	0.01	32.56	33.50	1.242	0.106	22.1
				Body	worn Test da	ta(Separate 15mn	n)			
Front side	GSM	190/836.6	1:8.3	0.007	0.06	32.56	33.50	1.242	0.009	22.1
Back side	GSM	190/836.6	1:8.3	0.011	-0.09	32.56	33.50	1.242	0.014	22.1
			Body wor	n Test data a	at the worst c	ase with Battery2#	#(Separate 15mr	n)		
Back side	GSM	190/836.6	1:8.3	0.010	0.03	32.56	33.50	1.242	0.013	22.1
				Hots	pot Test data	(Separate 10mm)				
Front side	GPRS 3TS	190/836.6	1:2.77	0.128	0.04	29.31	29.50	1.045	0.134	22.1
Back side	GPRS 3TS	190/836.6	1:2.77	0.211	0.02	29.31	29.50	1.045	0.220	22.1
Left side	GPRS 3TS	190/836.6	1:2.77	0.075	0.03	29.31	29.50	1.045	0.078	22.1
Right side	GPRS 3TS	190/836.6	1:2.77	0.122	0.07	29.31	29.50	1.045	0.127	22.1
Bottom side	GPRS 3TS	190/836.6	1:2.77	0.132	0.03	29.31	29.50	1.045	0.138	22.1
			Hotspot	Test data at	the worst cas	se with Battery2#(\$	Separate 10mm))		
Back side	GPRS 3TS	190/836.6	1:2.77	0.204	0.04	29.31	29.50	1.045	0.213	22.1

Table 19: SAR of GSM850 for Head and Body.

1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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SAR Result of GSM1900 8.3.2

				ANT1	Test Record	1					
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp	
		•		Head	Test data		, ,			•	
Left cheek	GSM	661/1880	1:8.3	0.029	0.02	29.63	30.50	1.222	0.035	22.3	
Left tilted	GSM	661/1880	1:8.3	0.026	0.08	29.63	30.50	1.222	0.032	22.3	
Right cheek	GSM	661/1880	1:8.3	0.035	0.09	29.63	30.50	1.222	0.043	22.3	
Right tilted	GSM	661/1880	1:8.3	0.027	0.03	29.63	30.50	1.222	0.032	22.3	
	Head Test data at the worst case with Battery2#										
Right cheek	GSM	661/1880	1:8.3	0.034	0.06	29.63	30.50	1.222	0.042	22.3	
			Е	Body worn Te	est data Sen	sor on					
Back side-15mm	GSM	661/1880	1:8.3	0.197	0.03	27.16	27.50	1.081	0.213	22.3	
	Body worn Test data Sensor off										
Front side-15mm	GSM	661/1880	1:8.3	0.130	0.02	29.63	30.50	1.222	0.159	22.3	
Back side-19mm	GSM	661/1880	1:8.3	0.245	-0.03	29.63	30.50	1.222	0.299	22.3	
		В	ody worn	Test data at	the worst ca	se with Battery2	2#				
Back side-19mm	GSM	661/1880	1:8.3	0.241	0.02	29.63	30.50	1.222	0.294	22.3	
				Hotspot Tes	st data Sens	or on					
Front side10mm	GPRS 3TS	661/1880	1:2.77	0.166	0.03	23.12	23.50	1.091	0.181	22.3	
Back side-10mm	GPRS 3TS	661/1880	1:2.77	0.478	0.01	23.12	23.50	1.091	0.522	22.3	
Bottom side-10mm	GPRS 3TS	661/1880	1:2.77	0.519	-0.02	23.12	23.50	1.091	0.566	22.3	
				Hotspot Tes	st data Sens	or off					
Front side15mm	GPRS 3TS	661/1880	1:2.77	0.197	0.01	26.05	26.50	1.109	0.219	22.3	
Back side-19mm	GPRS 3TS	661/1880	1:2.77	0.305	0.01	26.05	26.50	1.109	0.338	22.3	
Left side-10mm	GPRS 3TS	661/1880	1:2.77	0.098	0.03	26.05	26.50	1.109	0.109	22.3	
Right side-10mm	GPRS 3TS	661/1880	1:2.77	0.058	-0.02	26.05	26.50	1.109	0.064	22.3	
Bottom side-19mm	GPRS 3TS	661/1880	1:2.77	0.406	-0.01	26.05	26.50	1.109	0.450	22.3	
			Hotspot Te	est data at th	e worst case	e with Battery2#					
Bottom side-10mm	GPRS 3TS	661/1880	1:2.77	0.509	0.04	23.12	23.50	1.091	0.556	22.3	

Table 20: SAR of GSM1900 for Head and Body.

1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.3 SAR Result of WCDMA Band II

					st Record					
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
				Head 1	Test data					
Left cheek	RMC	9400/1880	1:1	0.066	-0.02	22.83	24.00	1.309	0.086	22.3
Left tilted	RMC	9400/1880	1:1	0.090	-0.03	22.83	24.00	1.309	0.118	22.3
Right cheek	RMC	9400/1880	1:1	0.061	0.02	22.83	24.00	1.309	0.080	22.3
Right tilted	RMC	9400/1880	1:1	0.053	0.01	22.83	24.00	1.309	0.069	22.3
		He	ad Test	data at the v	vorst case v	vith Battery2#				
Left tilted	RMC	9400/1880	1:1	0.088	0.01	22.83	24.00	1.309	0.115	22.3
			Во	dy worn Tes	t data Sens	or on				
Back side-15mm	RMC	9400/1880	1:1	0.185	0.03	17.92	19.00	1.282	0.237	22.3
			Во	dy worn Tes	t data Sens	or off				
Front side-15mm	RMC	9400/1880	1:1	0.241	0.04	22.83	24.00	1.309	0.316	22.3
Back side-19mm	RMC	9400/1880	1:1	0.445	0.05	22.83	24.00	1.309	0.583	22.3
		Body	worn Te	est data at th	e worst cas	e with Battery2	2#			
Back side-19mm	RMC	9400/1880	1:1	0.434	0.01	22.83	24.00	1.309	0.568	22.3
			H	lotspot Test	data Senso	r on				
Front side10mm	RMC	9400/1880	1:1	0.143	0.03	17.92	19.00	1.282	0.183	22.3
Back side-10mm	RMC	9400/1880	1:1	0.358	0.02	17.92	19.00	1.282	0.459	22.3
Bottom side-10mm	RMC	9400/1880	1:1	0.452	0.08	17.92	19.00	1.282	0.580	22.3
			F	lotspot Test	data Senso	r off				
Front side15mm	RMC	9400/1880	1:1	0.241	0.04	22.83	24.00	1.309	0.316	22.3
Back side-19mm	RMC	9400/1880	1:1	0.445	0.05	22.83	24.00	1.309	0.583	22.3
Left side-10mm	RMC	9400/1880	1:1	0.127	0.02	22.83	24.00	1.309	0.166	22.3
Right side-10mm	RMC	9400/1880	1:1	0.084	0.04	22.83	24.00	1.309	0.110	22.3
Bottom side-19mm	RMC	9400/1880	1:1	0.535	-0.11	22.83	24.00	1.309	0.700	22.3
		Hots	spot Tes	t data at the	worst case	with Battery2#				
Bottom side-19mm	RMC	9400/1880	1:1	0.521	-0.04	22.83	24.00	1.309	0.682	22.3
				ANT2 Te	st Record					
Test position	Test mode	Test Ch./Freq.	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
•		•	Cycle	(W/kg)1-g	Drift(dB) Test data	Power(dBm)	Limit(dBm)	factor	SAR(W/kg)	Temp
Left cheek	RMC	9400/1880	1:1	0.444	0.01	16.57	17.50	1.239	0.550	22.3
Left tilted	RMC	9400/1880	1:1	0.445	0.02		17.50	1.239	0.551	
Right cheek	RMC	9400/1880	1:1	0.555	-0.05	16.57 16.57	17.50	1.239	0.688	22.3
Right tilted	RMC	9400/1880	1:1	0.650	0.03	16.57	17.50	1.239	0.805	22.3
Right tilted	RMC	9262/1852.4	1:1	0.687	0.03	16.76	17.50	1.186	0.803	22.3
Right tilted	RMC	9538/1907.6	1:1	0.631	-0.06	16.59	17.50	1.233	0.778	22.3
ragin tinea	IXIVIC	1	l			rith Battery2#	17.50	1.233	0.770	
Right tilted	RMC	9262/1852.4	1:1	0.683	0.08	16.76	17.50	1.186	0.810	22.3
Night tilled	KIVIC	3202/1002.4	l	dy worn Tes		l	17.30	1.100	0.010	22.3
Book side 45mm	DMC	0400/4990	1	· · · · · · · · · · · · · · · · · · ·			24.00	1 250	0.270	22.2
Back side-15mm	RMC	9400/1880	1:1	0.223	0.04	20.03	21.00	1.250	0.279	22.3
Front aids 15mm	DMC	0400/4990	1	dy worn Tes			24.00	1 0 4 0	0.254	20.2
Front side-15mm	RMC	9400/1880	1:1	0.285	0.08	23.06	24.00	1.242	0.354	22.3
Back side-19mm	RMC	9400/1880	1:1	0.230	0.05	23.06	24.00	1.242	0.286	22.3



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		Body	worn Te	est data at th	e worst case	with Battery2	2#					
Front side-15mm	RMC	9400/1880	1:1	0.282	0.05	23.06	24.00	1.242	0.350	22.3		
			Н	otspot Test	data Sensor	on						
Front side10mm RMC 9400/1880 1:1 0.292 0.03 20.03 21.00 1.250 0.365 22.3												
Back side-10mm	RMC	9400/1880	1:1	0.545	0.01	20.03	21.00	1.250	0.681	22.3		
Top side-10mm	RMC	9400/1880	1:1	0.750	-0.07	20.03	21.00	1.250	0.938	22.3		
Top side-10mm	RMC	9262/1852.4	1:1	0.684	-0.06	20.03	21.00	1.250	0.855	22.3		
Top side-10mm	RMC	9538/1907.6	1:1	0.778	-0.08	20.03	21.00	1.250	0.973	22.3		
			Н	otspot Test	data Sensor	off						
Front side15mm	RMC	9400/1880	1:1	0.285	0.08	23.06	24.00	1.242	0.354	22.3		
Back side-19mm	RMC	9400/1880	1:1	0.230	0.05	23.06	24.00	1.242	0.286	22.3		
Left side-10mm	RMC	9400/1880	1:1	0.111	0.01	23.06	24.00	1.242	0.138	22.3		
Top side-19mm RMC 9400/1880 1:1 0.379 -0.07 23.06 24.00 1.242									0.471	22.3		
	•	Hots	spot Tes	t data at the	worst case	with Battery2#				•		
Top side-10mm	RMC	9538/1907.6	1:1	0.762	0.01	20.03	21.00	1.250	0.953	22.3		

Table 21: SAR of WCDMA Band II for Head and Body. Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.4 SAR Result of WCDMA Band IV

ANT1 Test Record										
Test position	Test mode	Test	Duty	SAR (W/kg)4 g	Power	Conducted	Tune up	Scaled	Scaled	Liquid
		Ch./Freq.	Cycle	Head Test		Power(dBm)	Lillill(ubili)	factor	SAR(W/kg)	Temp
Left cheek	RMC	1412/1732.4	1:1	0.086	-0.17	22.85	24.00	1.303	0.112	22.2
Left tilted	RMC	1412/1732.4	1:1	0.056	0.04	22.85	24.00	1.303	0.073	22.2
Right cheek	RMC	1412/1732.4	1:1	0.063	0.04	22.85	24.00	1.303	0.082	22.2
Right tilted	RMC	1412/1732.4	1:1	0.057	0.01	22.85	24.00	1.303	0.074	22.2
	1	Head T	est data	at the wors	t case witl	n Battery2#			1	
Left cheek	RMC	1412/1732.4	1:1	0.085	0.01	22.85	24.00	1.303	0.110	22.2
		l.	Body v	vorn Test da	ta Sensor	on				
Back side-15mm	RMC	1412/1732.4	1:1	0.197	0.07	17.82	19.00	1.312	0.259	22.2
		l.	Body v	vorn Test da	ta Sensor	off				
Front side-15mm	RMC	1412/1732.4	1:1	0.272	0.06	22.85	24.00	1.303	0.354	22.2
Back side-19mm	RMC	1412/1732.4	1:1	0.335	-0.02	22.85	24.00	1.303	0.437	22.2
	JI.	Body wor	n Test d	ata at the w	orst case v	with Battery2#				
Back side-19mm	RMC	1412/1732.4	1:1	0.331	0.03	22.85	24.00	1.303	0.431	22.2
	JI.		Hotsp	oot Test data	Sensor o	n				
Front side10mm	RMC	1412/1732.4	1:1	0.154	0.02	17.82	19.00	1.312	0.202	22.2
Back side-10mm	RMC	1412/1732.4	1:1	0.331	0.07	17.82	19.00	1.312	0.434	22.2
Bottom side-10mm	RMC	1412/1732.4	1:1	0.401	0.06	17.82	19.00	1.312	0.526	22.2
	•		Hotsp	oot Test data	Sensor o	ff				
Front side15mm	RMC	1412/1732.4	1:1	0.272	0.06	22.85	24.00	1.303	0.354	22.2
Back side-19mm	RMC	1412/1732.4	1:1	0.335	-0.02	22.85	24.00	1.303	0.437	22.2
Left side-10mm	RMC	1412/1732.4	1:1	0.111	0.09	22.85	24.00	1.303	0.145	22.2
Right side-10mm	RMC	1412/1732.4	1:1	0.069	0.05	22.85	24.00	1.303	0.090	22.2
Bottom side-19mm	RMC	1412/1732.4	1:1	0.367	0.04	22.85	24.00	1.303	0.478	22.2
		Hotspot	Test da	ta at the wor	st case w	th Battery2#				
Bottom side-10mm	RMC	1412/1732.4	1:1	0.397	0.16	17.82	19.00	1.312	0.521	22.2
			-	ANT2 Test F	Record					
Test position	Test mode	Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
•		Ch./Freq.	Cycle	Head Test		Power(dBm)	Limit(abin)	factor	SAR(W/kg)	Temp
Left cheek	RMC	1412/1732.4	1:1	0.531	0.08	15.98	17.00	1.265	0.672	22.3
Left tilted	RMC	1412/1732.4	1:1	0.559	0.04	15.98	17.00	1.265	0.707	22.3
Right cheek	RMC	1412/1732.4	1:1	0.555	-0.01	15.98	17.00	1.265	0.702	22.3
Right tilted	RMC	1412/1732.4	1:1	0.701	-0.01	15.98	17.00	1.265	0.887	22.3
Right tilted	RMC	1312/1712.4	1:1	0.683	0.04	16.00	17.00	1.259	0.860	22.3
Right tilted	RMC	1513/1752.6	1:1	0.721	-0.01	16.01	17.00	1.256	0.906	22.3
	1			at the wors					1	
Right tilted	RMC	1513/1752.6	1:1	0.705	0.04	16.01	17.00	1.256	0.886	22.3
<u> </u>				vorn Test da						
Back side-15mm	RMC	1412/1732.4	1:1	0.365	0.07	20.00	21.00	1.259	0.460	22.2
-				vorn Test da						
Front side-15mm	RMC	1412/1732.4	1:1	0.382	-0.01	22.95	24.00	1.274	0.486	22.2



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	Body worn Test data at the worst case with Battery2#										
Front side-15mm	RMC	1412/1732.4	1:1	0.378	0.02	22.95	24.00	1.274	0.481	22.2	
	l .		Hots	oot Test data	a Sensor o	n		I		I.	
Front side10mm	RMC	1412/1732.4	1:1	0.425	0.03	20.00	21.00	1.259	0.535	22.2	
Back side-10mm	RMC	1412/1732.4	1:1	0.721	0.06	20.00	21.00	1.259	0.908	22.2	
Top side-10mm	RMC	1412/1732.4	1:1	0.715	0.08	20.00	21.00	1.259	0.900	22.2	
Back side-10mm	RMC	1312/1712.4	1:1	0.732	0.08	20.00	21.00	1.259	0.922	22.2	
Back side-10mm	RMC	1513/1752.6	1:1	0.678	0.07	20.00	21.00	1.259	0.854	22.2	
Top side-10mm	RMC	1312/1712.4	1:1	0.696	0.08	20.02	21.00	1.253	0.872	22.2	
Top side-10mm	RMC	1513/1752.6	1:1	0.716	0.11	19.97	21.00	1.268	0.908	22.2	
			Hots	oot Test data	a Sensor o	ff	•				
Front side15mm	RMC	1412/1732.4	1:1	0.442	0.09	22.95	24.00	1.274	0.563	22.2	
Back side-19mm	RMC	1412/1732.4	1:1	0.360	0.12	22.95	24.00	1.274	0.458	22.2	
Left side-10mm	RMC	1412/1732.4	1:1	0.062	0.06	22.95	24.00	1.274	0.079	22.2	
Top side-19mm	RMC	1412/1732.4	1:1	0.377	0.09	22.95	24.00	1.274	0.480	22.2	
	•	Hotspot	Test da	ta at the wo	rst case wi	th Battery2#		-		-	
Back side-10mm	RMC	1312/1712.4	1:1	0.723	0.01	20.00	21.00	1.259	0.910	22.2	

Table 22: SAR of WCDMA Band IV for Head and Body. Note:

1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.5 SAR Result of WCDMA Band V

					ANT1 Tes	st Record					
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp	
					Head Te	est data					
Left cheek	RMC	4182/836.4	1:1	0.064	0.04	22.67	24.00	1.358	0.087	22.1	
Left tilted	RMC	4182/836.4	1:1	0.047	0.03	22.67	24.00	1.358	0.064	22.1	
Right cheek	RMC	4182/836.4	1:1	0.079	0.05	22.67	24.00	1.358	0.107	22.1	
Right tilted	RMC	4182/836.4	1:1	0.053	0.04	22.67	24.00	1.358	0.072	22.1	
				Head Test	data at the w	orst case with Bat	tery2#				
Right cheek	RMC	4182/836.4	1:1	0.077	0.04	22.67	24.00	1.358	0.104	22.1	
				Body \	Vorn Test da	ta(Separate 15mn	n)				
Front side	RMC	4182/836.4	1:1	0.067	0.10	22.67	24.00	1.358	0.091	22.1	
Back side	RMC	4182/836.4	1:1	0.083	0.02	22.67	24.00	1.358	0.112	22.1	
		E	Body worn	Test data a	t the worst ca	se with Battery2#	(Separate 15mn	n)	•	u.	
Back side	RMC	4182/836.4	1:1	0.080	0.02	22.67	24.00	1.358	0.108	22.1	
				Hots	pot Test data	(Separate 10mm)					
Front side	RMC	4182/836.4	1:1	0.107	0.04	22.67	24.00	1.358	0.145	22.1	
Back side	RMC	4182/836.4	1:1	0.155	0.09	22.67	24.00	1.358	0.211	22.1	
Left side	RMC	4182/836.4	1:1	0.044	0.06	22.67	24.00	1.358	0.060	22.1	
Right side	RMC	4182/836.4	1:1	0.067	0.03	22.67	24.00	1.358	0.091	22.1	
Bottom side	RMC	4182/836.4	1:1	0.102	-0.03	22.67	24.00	1.358	0.139	22.1	
			Hotspot 7	Test data at	the worst cas	e with Battery2#(\$	Separate 10mm)			•	
Back side	RMC	4182/836.4	1:1	0.150	0.02	22.67	24.00	1.358	0.204	22.1	
					ANT2 Tes	st Record			-		
Test	Test	Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid	
position	mode	Ch./Freq.	Cycle	(W/kg)1-g	Drift(dB)	Power(dBm)	Limit(dBm)	factor	SAR(W/kg)	Temp	
1 - 6 - 1 1	DMO	4400/000 4		0.004	Head Te	I	22.22	4.050	0.400	00.4	
Left cheek	RMC	4182/836.4	1:1	0.391	0.05	22.00	23.00	1.259	0.492	22.1	
Left tilted	RMC	4182/836.4	1:1	0.269	0.12	22.00	23.00	1.259	0.339	22.1	
Right cheek	RMC	4182/836.4	1:1	0.634	-0.10	22.00	23.00	1.259	0.798	22.1	
Right tilted	RMC	4182/836.4	1:1	0.433	0.08	22.00	23.00	1.259	0.545	22.1	
Dialet aleaale	DMC	4400/000 4	1.4	1		orst case with Bat		4.050	0.770	00.4	
Right cheek	RMC	4182/836.4	1:1	0.612	0.04	22.00	23.00	1.259	0.770	22.1	
Frant side	DMC	4400/000 4	1 4.4			ta(Separate 15mn	24.00	4 004	0.000	00.4	
Front side	RMC	4182/836.4	1:1	0.077	0.09	22.89		1.291	0.099	22.1	
Back side	RMC	4182/836.4	1:1	0.116	0.11	22.89	24.00	1.291	0.150	22.1	
De els els e	DMO					ase with Battery2#	ì	· ·	0.445	00.4	
Back side	RMC	4182/836.4	1:1	0.112	0.04	22.89	24.00	1.291	0.145	22.1	
Hotspot Test data(Separate 10mm)											
Front side	RMC	4182/836.4	1:1	0.129	0.02	22.89	24.00	1.291	0.167	22.1	
Back side	RMC	4182/836.4	1:1	0.234	0.17	22.89	24.00	1.291	0.302	22.1	
Left side	RMC	4182/836.4	1:1	0.018	0.05	22.89	24.00	1.291	0.023	22.1	
Top side	RMC	4182/836.4	1:1	0.090	0.11	22.89	24.00	1.291	0.116	22.1	
5	D1:0	4400/222		1		e with Battery2#(\$	·	1	0.000	06.1	
Back side	RMC	4182/836.4	1:1	0.226	0.02	22.89	24.00	1.291	0.292	22.1	

Table 23: SAR of WCDMA Band V for Head and Body.



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Note:

1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.6 SAR Result of LTE Band 2

0.3.0 3AI	ANT1 Test Record												
Toot position	DW.	Took mode	Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid		
Test position	BW.	Test mode	Ch./Freq.				power(dBm)	Limit(dBm)	factor	SAR(W/kg)	Temp.		
				1	ad Test dat	· /	1	1					
Left cheek	20	QPSK 1RB_50	19100/1900	1:1	0.063	0.08	22.71	24.00	1.346	0.085	22.3		
Left tilted	20	QPSK 1RB_50	19100/1900	1:1	0.063	0.04	22.71	24.00	1.346	0.085	22.3		
Right cheek	20	QPSK 1RB_50	19100/1900	1:1	0.060	-0.02	22.71	24.00	1.346	0.081	22.3		
Right tilted	20	QPSK 1RB_50	19100/1900	1:1	0.087	0.04	22.71	24.00	1.346	0.117	22.3		
	1			1	d Test data(1						
Left cheek	20	QPSK 50RB_25	18700/1860	1:1	0.052	-0.04	21.64	23.00	1.368	0.071	22.3		
Left tilted	20	QPSK 50RB_25	18700/1860	1:1	0.052	0.11	21.64	23.00	1.368	0.071	22.3		
Right cheek	20	QPSK 50RB_25	18700/1861	1:1	0.047	0.03	21.64	23.00	1.368	0.064	22.3		
Right tilted	20	QPSK 50RB_25	18700/1862	1:1	0.069	0.07	21.64	23.00	1.368	0.094	22.3		
	1		Head Te	est data	at the worst		Battery2#				1		
Right tilted	20	QPSK 1RB_50	19100/1900	1:1	0.085	0.02	22.71	24.00	1.346	0.114	22.3		
	1			, 	n Test data		1				.		
Back side-15mm	20	QPSK 1RB_50	19100/1900	1:1	0.175	0.05	17.53	19.00	1.403	0.245	22.3		
			Boo	y worn	Test data 50	%RB Sen	nsor on				-		
Back side-15mm	20	QPSK 50RB_25	19100/1900	1:1	0.170	0.08	17.75	19.00	1.334	0.227	22.3		
	1			ody worr	n Test data	1RB Sens	1	1					
Front side-15mm	20	QPSK 1RB_50	19100/1900	1:1	0.230	0.07	22.71	24.00	1.346	0.310	22.3		
Back side-19mm	20	QPSK 1RB_50	19100/1900	1:1	0.488	0.03	22.71	24.00	1.346	0.657	22.3		
			Boo	dy worn	Test data 50	%RB Sen	nsor off						
Front side-15mm	20	QPSK 50RB_25	18700/1860	1:1	0.180	0.01	21.64	23.00	1.368	0.246	22.3		
Back side-19mm	20	QPSK 50RB_25	18700/1860	1:1	0.385	-0.03	21.64	23.00	1.368	0.527	22.3		
			Body worn	Test da	ta at the wo	rst case w	vith Battery2#						
Back side-19mm	20	QPSK 1RB_50	19100/1900	1:1	0.476	0.02	22.71	24.00	1.346	0.641	22.3		
			ŀ	lotspot [*]	Test data 1F	RB Sensor	on						
Front side10mm	20	QPSK 1RB_50	19100/1900	1:1	0.141	0.09	17.53	19.00	1.403	0.198	22.3		
Back side-10mm	20	QPSK 1RB_50	19100/1900	1:1	0.355	0.07	17.53	19.00	1.403	0.498	22.3		
Bottom side-	20	QPSK 1RB_50	19100/1900	1:1	0.457	0.06	17.53	19.00	1.403	0.641	22.3		
10mm			Ho	tspot Te	est data 50%	RB Sensi	or on						
Front side10mm	20	QPSK 50RB_25	19100/1900	1:1	0.139	0.04	17.75	19.00	1.334	0.185	22.3		
Back side-10mm		QPSK 50RB_25		1:1	0.351	0.06	17.75	19.00	1.334	0.468	22.3		
Bottom side- 10mm	20	QPSK 50RB_25		1:1	0.444	0.09	17.75	19.00	1.334	0.592	22.3		
			}	Hotspot [*]	Test data 1F	RB Sensor	off			I.			
Front side15mm	20	QPSK 1RB_50	19100/1900	1:1	0.230	0.07	22.71	24.00	1.346	0.310	22.3		
Back side-19mm	20	QPSK 1RB_50	19100/1900	1:1	0.488	0.03	22.71	24.00	1.346	0.657	22.3		
Left side-10mm	20	QPSK 1RB_50	19100/1900	1:1	0.125	0.08	22.71	24.00	1.346	0.168	22.3		
Right side-10mm		QPSK 1RB_50	19100/1900	1:1	0.079	0.11	22.71	24.00	1.346	0.106	22.3		
Bottom side-													
19mm	20	QPSK 1RB_50	19100/1900	1:1	0.482	0.04	22.71	24.00	1.346	0.649	22.3		
	1			tspot Te	est data 50%		1				Г		
Front side15mm	20	QPSK 50RB_25	18700/1860	1:1	0.180	0.01	21.64	23.00	1.368	0.246	22.3		
Back side-19mm	20	QPSK 50RB_25	18700/1860	1:1	0.385	-0.03	21.64	23.00	1.368	0.527	22.3		



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1		l a novembra a no		l	l	ء ۔ ا	l	l		1 1	۔ ۔ ۔
Left side-10mm	20	QPSK 50RB_25		1:1	0.095	0.09	21.64	23.00	1.368	0.130	22.3
Right side-10mm Bottom side-	20	QPSK 50RB_25	18700/1860	1:1	0.060	0.07	21.64	23.00	1.368	0.082	22.3
19mm	20	QPSK 50RB_25	18700/1860	1:1	0.373	0.08	21.64	23.00	1.368	0.510	22.3
			Hotspot ⁻	Test data	a at the wors	t case wit	h Battery2#				
Back side-19mm	20	QPSK 1RB_50	19100/1900	1:1	0.476	0.02	22.71	24.00	1.346	0.641	22.3
					NT2 Test R			-			
Test position	BW.	Test mode	Test Ch./Freq.	Duty	SAR (W/kg)1-g	Power	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
			Onial roq.		ad Test data		power(abiii)	Limit(aBin)	iuotoi	OAR(W/Rg)	Tompi
Left cheek	20	QPSK 1RB_0	18700/1860	1:1	0.351	0.01	16.45	17.50	1.274	0.447	22.1
Left tilted	20	QPSK 1RB_0	18700/1860	1:1	0.453	0.03	16.45	17.50	1.274	0.577	22.1
Right cheek	20	QPSK 1RB_0	18700/1861	1:1	0.506	0.04	16.45	17.50	1.274	0.644	22.1
Right tilted	20	QPSK 1RB_0	18700/1862	1:1	0.613	-0.12	16.45	17.50	1.274	0.781	22.1
				Hea	d Test data(50%RB)	l.	l.			
Left cheek	20	QPSK 50RB_25	18900/1880	1:1	0.439	-0.09	16.44	17.50	1.276	0.560	22.1
Left tilted	20	QPSK 50RB_25	18900/1880	1:1	0.470	-0.06	16.44	17.50	1.276	0.600	22.1
Right cheek	20	QPSK 50RB_25	18900/1880	1:1	0.553	0.06	16.44	17.50	1.276	0.706	22.1
Right tilted	20	QPSK 50RB_25	18900/1880	1:1	0.590	0.05	16.44	17.50	1.276	0.753	22.1
			Head Te	est data	at the worst	case with	Battery2#				
Right tilted	20	QPSK 1RB_0	18700/1862	1:1	0.602	0.02	16.45	17.50	1.274	0.767	22.1
			В	ody worr	n Test data 1	1RB Sense	or on				
Back side-15mm	20	QPSK 1RB_50	18900/1880	1:1	0.189	1.20	19.98	21.00	1.265	0.239	22.3
			Boo	dy worn	Test data 50	%RB Sen	sor on				
Back side-15mm	20	QPSK 50RB_0	18900/1880	1:1	0.158	0.07	19.93	21.00	1.279	0.202	22.3
			В	ody worr	n Test data 1	IRB Sens	or off				
Front side-15mm	20	QPSK 1RB_50	18900/1880	1:1	0.255	0.01	22.83	24.00	1.309	0.334	22.3
Back side-19mm	20	QPSK 1RB_50	18900/1880	1:1	0.259	0.04	22.83	24.00	1.309	0.339	22.3
			Boo	dy worn	Test data 50	%RB Sen	sor off			1	•
Front side-15mm	20	QPSK 50RB_25	19100/1900	1:1	0.204	0.09	21.83	23.00	1.309	0.267	22.3
Back side-19mm	20	QPSK 50RB_25	19100/1900	1:1	0.198	-0.04	21.83	23.00	1.309	0.259	22.3
		1	Body worn	Test da	ta at the wo	rst case w	rith Battery2#	1		1	
Back side-19mm	20	QPSK 1RB_50	18900/1880	1:1	0.255	0.01	22.83	24.00	1.309	0.334	22.3
		1		· ·	Test data 1F	1	1	I		1	
Front side10mm	20	QPSK 1RB_50	18900/1880	1:1	0.303	0.12	19.98	21.00	1.265	0.383	22.3
Back side-10mm	20	QPSK 1RB_50	18900/1880	1:1	0.524	0.08	19.98	21.00	1.265	0.663	22.3
Top side-10mm	20	QPSK 1RB_50	18900/1880	1:1	0.665	0.09	19.98	21.00	1.265	0.841	22.3
Top side-10mm	20	QPSK 1RB_50	18700/1860	1:1	0.666	0.02	19.98	21.00	1.265	0.842	22.3
Top side-10mm	20	QPSK 1RB_50	19100/1900	1:1	0.663	0.02	19.98	21.00	1.265	0.839	22.3
		0001/5			est data 50%						25.5
Front side10mm	20	QPSK 50RB_0	18900/1880	1:1	0.307	0.11	19.93	21.00	1.279	0.393	22.3
Back side-10mm	20	QPSK 50RB_0	18900/1880	1:1	0.509	0.03	19.93	21.00	1.279	0.651	22.3
Top side-10mm	20	QPSK 50RB_0	18900/1880	1:1	0.681	0.02	19.93	21.00	1.279	0.871	22.3
Top side-10mm	20	QPSK 50RB_0	18700/1860	1:1	0.615	0.01	19.93	21.00	1.279	0.787	22.3
Top side-10mm	20	QPSK 50RB_0	19100/1900	1:1	0.648	0.02	19.93	21.00	1.279	0.829	22.3
Tan aid: 40::	00	ODOK 400DD 0			st data 1009			04.00	4.074	0.050	00.0
Top side-10mm	20	QPSK 100RB_0	18900/1880	1:1	0.669	0.05	19.95	21.00	1.274	0.852	22.3
			ŀ	noispot	Test data 1F	o sensor	UII				



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Front side15mm	20	QPSK 1RB_50	18900/1880	1:1	0.255	0.01	22.83	24.00	1.309	0.334	22.3
Back side-19mm	20	QPSK 1RB_50	18900/1880	1:1	0.259	0.04	22.83	24.00	1.309	0.339	22.3
Left side-10mm	20	QPSK 1RB_50	18900/1880	1:1	0.103	0.12	22.83	24.00	1.309	0.135	22.3
Top side-19mm	20	QPSK 1RB_50	18900/1880	1:1	0.512	0.01	22.83	24.00	1.309	0.670	22.3
			Ho	tspot Te	est data 50%	RB Senso	or off				
Front side15mm	20	QPSK 50RB_25	19100/1900	1:1	0.204	0.09	21.83	23.00	1.309	0.267	22.3
Back side-19mm	20	QPSK 50RB_25	19100/1900	1:1	0.198	-0.04	21.83	23.00	1.309	0.259	22.3
Left side-10mm	20	QPSK 50RB_25	19100/1900	1:1	0.082	0.13	21.83	23.00	1.309	0.107	22.3
Top side-19mm	20	QPSK 50RB_25	19100/1900	1:1	0.403	0.06	21.83	23.00	1.309	0.528	22.3
			Hotspot 7	est data	a at the wors	t case wit	h Battery2#				
Top side-10mm	20	QPSK 50RB_0	18900/1880	1:1	0.671	0.04	19.93	21.00	1.279	0.858	22.3

Table 24: SAR of LTE Band 2 for Head and Body. Note:

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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¹⁾The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.



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8.3.7 SAR Result of LTE Band 4

				AN	IT1 Test Re	cord					
Test position	BW.	Test mode	Test	Duty	SAR	Power	Conducted		Scaled	Scaled	Liquid
Tost position		103t mode	Ch./Freq.		(W/kg)1-g		power(dBm)	Limit(dBm)	factor	SAR(W/kg)	Temp.
Laft about	00	0001/400 00	00475/4700 5		ad Test data	ì	00.70	04.00	4.040	0.000	00.0
Left cheek	20		20175/1732.5	1:1	0.051	0.08	22.73	24.00	1.340	0.069	22.2
Left tilted	20	_	20175/1732.5	1:1	0.043	0.07	22.73	24.00	1.340	0.058	22.2
Right cheek	20		20175/1732.5	1:1	0.065	0.08	22.73	24.00	1.340	0.087	22.2
Right tilted	20	QPSK 1RB_99	20175/1732.5	1:1	0.041	0.03	22.73	24.00	1.340	0.054	22.2
Laft about	00	ODOK FORD O	00000/4745		Test data(5	· · · · ·	04.04	00.00	4 000	0.004	00.0
Left cheek	20	QPSK 50RB_0	20300/1745	1:1	0.049	0.08	21.84	23.00	1.306	0.064	22.2
Left tilted	20	QPSK 50RB_0	20300/1745	1:1	0.043	0.02	21.84	23.00	1.306	0.056	22.2
Right cheek	20	QPSK 50RB_0	20300/1745	1:1	0.033	0.03	21.84	23.00	1.306	0.043	22.2
Right tilted	20	QPSK 50RB_0	20300/1745	1:1	0.043	0.05	21.84	23.00	1.306	0.056	22.2
	1		1		at the worst o						i
Right cheek	20	QPSK 1RB_99	20175/1732.5	1:1	0.064	0.01	22.73	24.00	1.340	0.086	22.2
	1				Test data 1	1					i
Back side-15mm	20	QPSK 1RB_99	l l	1:1	0.171	0.07	17.80	19.00	1.318	0.225	22.2
			· · · · · · · · ·		est data 50%				1		
Back side-15mm	20	QPSK 50RB_50	l l	1:1	0.162	0.07	17.93	19.00	1.279	0.207	22.2
				,	Test data 1	1	1		1		
Front side-15mm	20		20175/1732.5	1:1	0.289	0.09	22.73	24.00	1.340	0.387	22.2
Back side-19mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.191	0.02	22.73	24.00	1.340	0.256	22.2
			·		est data 50%				1		
Front side-15mm	20	QPSK 50RB_0	20300/1745	1:1	0.208	0.08	21.84	23.00	1.306	0.272	22.2
Back side-19mm	20	QPSK 50RB_0	20300/1745	1:1	0.179	0.04	21.84	23.00	1.306	0.234	22.2
			Body worn	Γest dat		st case wit	th Battery2#		1		
Front side-15mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.286	0.05	22.73	24.00	1.340	0.383	22.2
			Ho	otspot T	est data 1RI	3 Sensor o	on		1		
Front side10mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.154	0.05	17.80	19.00	1.318	0.203	22.2
Back side-10mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.324	0.04	17.80	19.00	1.318	0.427	22.2
Bottom side-10mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.328	0.03	17.80	19.00	1.318	0.432	22.2
			Hot	spot Te	st data 50%l	RB Sensor	r on		1		
Front side10mm	20	QPSK 50RB_50		1:1	0.147	0.12	17.93	19.00	1.279	0.188	22.2
Back side-10mm	20	QPSK 50RB_50	20050/1720	1:1	0.318	0.09	17.93	19.00	1.279	0.407	22.2
Bottom side-10mm	20	QPSK 50RB_50	20050/1720	1:1	0.329	0.18	17.93	19.00	1.279	0.421	22.2
			Ho	otspot T	est data 1RI	3 Sensor o	off		1		
Front side15mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.289	0.09	22.73	24.00	1.340	0.387	22.2
Back side-19mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.191	0.02	22.73	24.00	1.340	0.256	22.2
Left side-10mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.114	0.05	22.73	24.00	1.340	0.153	22.2
Right side-10mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.073	0.04	22.73	24.00	1.340	0.098	22.2
Bottom side-19mm	20	QPSK 1RB_99	20175/1732.5	1:1	0.278	0.08	22.73	24.00	1.340	0.372	22.2
			Hot	spot Te	st data 50%l	RB Sensor	r off				
Front side15mm	20	QPSK 50RB_0	20300/1745	1:1	0.208	0.08	21.84	23.00	1.306	0.272	22.2
Back side-19mm	20	QPSK 50RB_0	20300/1745	1:1	0.179	0.04	21.84	23.00	1.306	0.234	22.2
Left side-10mm	20	QPSK 50RB_0	20300/1745	1:1	0.087	0.09	21.84	23.00	1.306	0.114	22.2



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Right side-10mm	20	QPSK 50RB_0	20300/1745	1:1	0.052	0.03	21.84	23.00	1.306	0.068	22.2
Bottom side-19mm		QPSK 50RB 0	20300/1745	1:1	0.201	0.05	21.84	23.00	1.306	0.263	22.2
Dottom side Torrin	1 20	QI CIT COTE_C			at the worst	l		20.00	1.000	0.200	
Bottom side-10mm	20	QPSK 1RB_99	20175/1732.5		0.325	0.01	17.80	19.00	1.318	0.428	22.2
		_			NT2 Test Re						
Test position	BW.	Test mode	Test	Duty	SAR	Power	Conducted		Scaled		Liquid
Tool pooliion		1001111000	Ch./Freq.		(W/kg)1-g		power(dBm)	Limit(dBm)	factor	SAR(W/kg)	Temp.
Left cheek	20	QPSK 1RB_0	20050/1720	1:1	ad Test data 0.513	0.02	16.32	17.00	1.169	0.600	22.1
Left tilted	20	QPSK 1RB_0	20050/1720	1:1	0.619	0.02	16.32	17.00	1.169	0.724	22.1
Right cheek	20	QPSK 1RB_0	20050/1720	1:1	0.639	0.07	16.32	17.00	1.169	0.747	22.1
Right tilted	20	QPSK 1RB_0	20050/1720	1:1	0.730	0.05	16.32	17.00	1.169	0.854	22.1
Right tilted	20		20175/1732.5	1:1	0.721	0.01	16.12	17.00	1.225	0.883	22.1
Right tilted	20	QPSK 1RB_99	20300/1745	1:1	0.649	-0.12	16.10	17.00	1.230	0.798	22.1
				Head	Test data(5	0%RB)	•				
Left cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.491	0.06	16.10	17.00	1.230	0.604	22.1
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.597	0.04	16.10	17.00	1.230	0.734	22.1
Right cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.643	0.09	16.10	17.00	1.230	0.791	22.1
Right tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.587	-0.05	16.10	17.00	1.230	0.722	22.1
Right tilted	20	QPSK 50RB_0	20050/1720	1:1	0.788	0.05	16.09	17.00	1.233	0.972	22.1
Right tilted	20	QPSK 50RB_0	20300/1745	1:1	0.728	-0.08	16.05	17.00	1.245	0.906	22.1
	1				Test data(1		ı				ı
Right tilted	20	QPSK 100RB_0	20050/1720	1:1	0.632	0.02	16.31	17.00	1.172	0.741	22.1
Dialet tilte d	100	ODCK FODD O			at the worst of	1		47.00	4 000	0.050	00.4
Right tilted	20	QPSK 50RB_0	20050/1720	1:1	0.773 Test data 1	-0.06	16.09	17.00	1.233	0.953	22.1
Back side-15mm	20	QPSK 1RB_50			0.509	0.05	19.70	21.00	1.349	0.687	22.2
Back side Tomin	20	QI CIT ITE_00			est data 509	l		21.00	1.040	0.007	22.2
Back side-15mm	20	QPSK 50RB_0	20175/1732.5		0.515	0.09	19.77	21.00	1.327	0.684	22.2
					Test data 1	l .					l
Front side-15mm	20	QPSK 1RB_0	20050/1720	1:1	0.388	0.07	22.85	24.00	1.303	0.506	22.2
Back side-19mm	20	QPSK 1RB_0	20050/1720	1:1	0.578	0.02	22.85	24.00	1.303	0.753	22.2
			Body	/ worn T	est data 50°	%RB Sens	or off				
Front side-15mm	20	QPSK 50RB_0	20175/1732.5	1:1	0.294	0.03	21.81	23.00	1.315	0.387	22.2
Back side-19mm	20	QPSK 50RB_0	20175/1732.5	1:1	0.308	0.11	21.81	23.00	1.315	0.405	22.2
			Body worn	Test dat	a at the wor	st case wit	th Battery2#	T			1
Back side-19mm	20	QPSK 1RB_0	20050/1720	1:1	0.567	0.05	22.85	24.00	1.303	0.739	22.2
				•	est data 1RI		1	Γ	1 1		1
Front side10mm	20	_	20175/1732.5		0.441	0.07	19.70	21.00	1.349	0.595	22.2
Back side-10mm	20		20175/1732.5		0.629	0.03	19.70	21.00	1.349	0.848	22.2
Top side-10mm Back side-10mm	20		20175/1732.5 20050/1720		0.725	0.03	19.70	21.00 21.00	1.349 1.377	0.978	22.2
Back side-10mm	20	QPSK 1RB_50 QPSK 1RB_50	20050/1720	1:1	0.696 0.709	0.08	19.61 19.67	21.00	1.377	0.959	22.2
Top side-10mm	20	QPSK 1RB_50	20050/1745	1:1	0.709	0.07	19.67	21.00	1.377	0.932	22.2
Top side-10mm	20	QPSK 1RB_50	20300/1725	1:1	0.077	0.03	19.67	21.00	1.358	0.932	22.2
. 0, 3,00 10,11111	1-0	2. C. 11.D_00			st data 50%l					3.000	
Front side10mm	20	QPSK 50RB_0	20175/1732.5	·	0.421	0.11	19.77	21.00	1.327	0.559	22.2



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Back side-10mm	20	QPSK 50RB_0	20175/1732.5	1:1	0.732	0.07	19.77	21.00	1.327	0.972	22.2
Top side-10mm	20	QPSK 50RB_0	20175/1732.5	1:1	0.741	0.01	19.77	21.00	1.327	0.984	22.2
Back side-10mm	20	QPSK 50RB_0	20050/1720	1:1	0.706	0.02	19.75	21.00	1.334	0.941	22.2
Back side-10mm	20	QPSK 50RB_0	20300/1745	1:1	0.741	0.03	19.73	21.00	1.340	0.993	22.2
Top side-10mm	20	QPSK 50RB_0	20050/1720	1:1	0.714	0.09	19.75	21.00	1.334	0.952	22.2
Top side-10mm	20	QPSK 50RB_0	20300/1745	1:1	0.728	0.09	19.73	21.00	1.340	0.975	22.2
			Hots	pot Tes	t data 100%	RB Senso	r on				
Back side-10mm	20	QPSK 100RB_0	20050/1720	1:1	0.583	0.03	19.62	21.00	1.374	0.801	22.2
Top side-10mm	20	QPSK 100RB_0	20050/1720	1:1	0.758	0.09	19.62	21.00	1.374	1.042	22.2
			Но	otspot T	est data 1RI	3 Sensor o	off				
Front side15mm	20	QPSK 1RB_0	20050/1720	1:1	0.388	0.07	22.85	24.00	1.303	0.506	22.2
Back side-19mm	20	QPSK 1RB_0	20050/1720	1:1	0.578	0.02	22.85	24.00	1.303	0.753	22.2
Left side-10mm	20	QPSK 1RB_0	20050/1720	1:1	0.063	0.08	22.85	24.00	1.303	0.082	22.2
Top side-19mm	20	QPSK 1RB_0	20050/1720	1:1	0.458	0.01	22.85	24.00	1.303	0.597	22.2
			Hots	spot Tes	st data 50%l	RB Senso	r off				
Front side15mm	20	QPSK 50RB_0	20175/1732.5	1:1	0.294	0.03	21.81	23.00	1.315	0.387	22.2
Back side-19mm	20	QPSK 50RB_0	20175/1732.5	1:1	0.308	0.11	21.81	23.00	1.315	0.405	22.2
Left side-10mm	20	QPSK 50RB_0	20175/1732.5	1:1	0.050	0.08	21.81	23.00	1.315	0.066	22.2
Top side-19mm	20	QPSK 50RB_0	20175/1732.5	1:1	0.353	-0.01	21.81	23.00	1.315	0.464	22.2
			Hotspot Te	est data	at the worst	case with	Battery2#				
Top side-10mm	20	QPSK 100RB_0	20050/1720	1:1	0.744	0.02	19.62	21.00	1.374	1.022	22.2
T-LI- OF CAE		LTE Daniel 4 fe									

Table 25: SAR of LTE Band 4 for Head and Body. Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.8 SAR Result of LTE Band 5

				ANT	1 Test Rec	ord					
Test position	BW.	Test mode	Test Ch./Freq.	Duty	SAR (W/kg)1-g	Power	Conducted power(dBm)		Scaled		Liquid Temp.
position					Test data(1		power (abiii)	Liiiii(abiii)	lactor	SAK(W/kg)	remp.
Left cheek	10	QPSK 1RB_25	20600/844	1:1	0.070	0.01	23.36	24.50	1.300	0.091	22.1
Left tilted	10	QPSK 1RB_25	20600/844	1:1	0.052	-0.01	23.36	24.50	1.300	0.068	22.1
Right cheek	10	QPSK 1RB_25	20600/844	1:1	0.096	-0.04	23.36	24.50	1.300	0.125	22.1
Right tilted	10	QPSK 1RB 25	20600/844	1:1	0.055	-0.02	23.36	24.50	1.300	0.072	22.1
· · · g · · · · · · · ·		4. 0.1 1112_20		l .	est data(50					****	
Left cheek	10	QPSK 25RB_0	20600/844	1:1	0.057	0.08	22.35	23.50	1.303	0.074	22.1
Left tilted	10	QPSK 25RB_0	20600/844	1:1	0.036	0.04	22.35	23.50	1.303	0.047	22.1
Right cheek	10	QPSK 25RB_0	20600/844	1:1	0.075	0.08	22.35	23.50	1.303	0.097	22.1
Right tilted	10	QPSK 25RB_0	20600/844	1:1	0.043	0.03	22.35	23.50	1.303	0.056	22.1
9				l	the worst ca						
Right cheek	10	QPSK 1RB_25	20600/844	1:1	0.091	-0.02	23.36	24.50	1.300	0.119	22.1
0		-	Body Wo	orn Test	data(Separa	ate 15mm	1RB)		<u> </u>		
Front side	10	QPSK 1RB_25	20600/844	1:1	0.077	0.01	23.36	24.50	1.300	0.100	22.1
Back side	10	QPSK 1RB_25	20600/844	1:1	0.085	0.03	23.36	24.50	1.300	0.111	22.1
			Body Wor	n Test d	ata(Separat	e 15mm 5	0%RB)				
Front side	10	QPSK 25RB_0	20600/844	1:1	0.062	0.06	22.35	23.50	1.303	0.081	22.1
Back side	10	QPSK 25RB_0	20600/844	1:1	0.082	0.03	22.35	23.50	1.303	0.107	22.1
		Body	worn Test data a	at the wo	rst case wit	h Battery2	#(Separate 15	imm)			
Back side	10	QPSK 1RB_25	20600/844	1:1	0.081	0.04	23.36	24.50	1.300	0.105	22.1
			Hotspo	t Test d	ata(Separat	e 10mm 1	RB)			<u></u>	
Front side	10	QPSK 1RB_25	20600/844	1:1	0.113	0.01	23.36	24.50	1.300	0.147	22.1
Back side	10	QPSK 1RB_25	20600/844	1:1	0.209	0.14	23.36	24.50	1.300	0.272	22.1
Left side	10	QPSK 1RB_25	20600/844	1:1	0.024	0.03	23.36	24.50	1.300	0.031	22.1
Right side	10	QPSK 1RB_25	20600/844	1:1	0.081	0.01	23.36	24.50	1.300	0.105	22.1
Bottom side	10	QPSK 1RB_25	20600/844	1:1	0.119	0.13	23.36	24.50	1.300	0.155	22.1
			Hotspot ⁻	Test data	a (Separate	10mm 50	%RB)				
Front side	10	QPSK 25RB_0	20600/844	1:1	0.089	0.05	22.35	23.50	1.303	0.116	22.1
Back side	10	QPSK 25RB_0	20600/844	1:1	0.128	-0.02	22.35	23.50	1.303	0.167	22.1
Left side	10	QPSK 25RB_0	20600/844	1:1	0.016	0.04	22.35	23.50	1.303	0.021	22.1
Right side	10	QPSK 25RB_0	20600/844	1:1	0.064	0.12	22.35	23.50	1.303	0.083	22.1
Bottom side	10	QPSK 25RB_0	20600/844	1:1	0.099	0.12	22.35	23.50	1.303	0.129	22.1
		Hots	pot Test data at	the wors	st case with	Battery2#	(Separate 10n	nm)			
Back side	10	QPSK 1RB_25	20600/844	1:1	0.200	0.01	23.36	24.50	1.300	0.260	22.1
ANT2 Test Record											
Test position	BW.	Test mode	Test Ch./Freq.	Duty	SAR (W/kg)1-g	Power	Conducted power(dBm)	Tune up	Scaled	Scaled	Liquid Temp.
μυσιτίστι					Test data(1		power(ubili)		ractor	OAIN(W/NG)	remp.
Left cheek	10	QPSK 1RB_0	20600/844	1:1	0.431	-0.03	22.44	23.50	1.276	0.550	22.1
Left tilted	10	QPSK 1RB_0	20600/844	1:1	0.368	0.02	22.44	23.50	1.276	0.470	22.1
Right cheek	10	QPSK 1RB_0	20600/844	1:1	0.551	0.06	22.44	23.50	1.276	0.703	22.1
Right tilted	10	QPSK 1RB_0	20600/844	1:1	0.416	0.13	22.44	23.50	1.276	0.531	22.1
	. •			l	est data(50				1		



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Left cheek	10	QPSK 25RB_13	20600/844	1:1	0.427	-0.01	22.28	23.50	1.324	0.565	22.1
Left tilted	10	QPSK 25RB_13	20600/844	1:1	0.362	0.03	22.28	23.50	1.324	0.479	22.1
Right cheek	10	QPSK 25RB_13	20600/844	1:1	0.703	-0.04	22.28	23.50	1.324	0.931	22.1
Right tilted	10	QPSK 25RB_13	20600/844	1:1	0.409	0.07	22.28	23.50	1.324	0.542	22.1
Right cheek	10	QPSK 25RB_13	20450/829	1:1	0.690	0.01	22.26	23.50	1.330	0.918	22.1
Right cheek	10	QPSK 25RB_25	20525/836.5	1:1	0.696	-0.04	22.14	23.50	1.368	0.952	22.1
				Head Te	est data(100)%RB)					
Right cheek	10	QPSK 100RB_0	20450/829	1:1	0.668	0.02	22.58	23.50	1.236	0.826	22.1
			Head Test	data at	the worst ca	se with Ba	attery2#				
Right cheek	10	QPSK 25RB_25	20525/836.5	1:1	0.678	0.01	22.14	23.50	1.368	0.927	22.1
			Body Wo	orn Test	data(Separa	ate 15mm	1RB)				
Front side	10	QPSK 1RB_0	20600/844	1:1	0.082	0.06	23.39	24.50	1.291	0.106	22.1
Back side	10	QPSK 1RB_0	20600/844	1:1	0.150	0.04	23.39	24.50	1.291	0.194	22.1
			Body Wor	n Test da	ata(Separate	e 15mm 50	0%RB)				
Front side	10	QPSK 25RB_13	20600/844	1:1	0.062	0.02	22.82	23.50	1.169	0.073	22.1
Back side	10	QPSK 25RB_13	20600/844	1:1	0.097	0.04	22.82	23.50	1.169	0.113	22.1
		Body v	worn Test data a	at the wo	rst case with	h Battery2	#(Separate 15	īmm)			
Back side	10	QPSK 1RB_0	20600/844	1:1	0.143	0.02	23.39	24.50	1.291	0.185	22.1
			Hotspo	ot Test da	ata(Separate	e 10mm 11	RB)				
Front side	10	QPSK 1RB_0	20600/844	1:1	0.164	0.04	23.39	24.50	1.291	0.212	22.1
Back side	10	QPSK 1RB_0	20600/844	1:1	0.311	0.07	23.39	24.50	1.291	0.402	22.1
Left side	10	QPSK 1RB_0	20600/844	1:1	0.024	0.05	23.39	24.50	1.291	0.031	22.1
Top side	10	QPSK 1RB_0	20600/844	1:1	0.102	0.07	23.39	24.50	1.291	0.132	22.1
			Hotspot ²	Test data	a (Separate	10mm 509	%RB)				
Front side	10	QPSK 25RB_13	20600/844	1:1	0.126	0.13	22.82	23.50	1.169	0.147	22.1
Back side	10	QPSK 25RB_13	20600/844	1:1	0.217	0.12	22.82	23.50	1.169	0.254	22.1
Left side	10	QPSK 25RB_13	20600/844	1:1	0.019	0.05	22.82	23.50	1.169	0.022	22.1
Top side	10	QPSK 25RB_13	20600/844	1:1	0.078	0.01	22.82	23.50	1.169	0.091	22.1
	•	Hots	pot Test data at	the wors	st case with	Battery2#	(Separate 10r	nm)	•		
Back side	10	QPSK 1RB_0	20600/844	1:1	0.297	0.04	23.39	24.50	1.291	0.383	22.1
Table 26	SAD 6	of LTF Band 5 fo	r Hood and E	2041							

Table 26: SAR of LTE Band 5 for Head and Body. Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.9 SAR Result of LTE Band 7

0.3.9 SAR F				Δ	NT1 Test R	Record					
Test position	D\A/	Toot made	Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg)1-g	Drift(dB)	power(dBm)	Limit(dBm)	factor	SAR(W/kg)	
			T		ead Test dat	ta(1RB)				1	
Left cheek	20	QPSK 1RB_50	21100/2535	1:1	0.045	0.09	23.06	24.00	1.242	0.056	22.1
Left tilted	20	QPSK 1RB_50	21100/2535	1:1	0.037	0.06	23.06	24.00	1.242	0.046	22.1
Right cheek	20	QPSK 1RB_50	21100/2535	1:1	0.084	-0.06	23.06	24.00	1.242	0.104	22.1
Right cheek	20	PCC 1_0	21100/2535	1:1	0.062	0.04	22.75	24.00	1.334	0.083	22.1
g		SCC 1_99	20902/2515.2								
Right tilted	20	QPSK 1RB_50	21100/2535	1:1	0.057	0.09	23.06	24.00	1.242	0.071	22.1
	1		Т .		d Test data	i i			1		
Left cheek	20	QPSK 50RB_0	21100/2535	1:1	0.024	0.05	22.18	23.00	1.208	0.029	22.1
Left tilted	20	QPSK 50RB_0	21100/2535	1:1	0.019	0.08	22.18	23.00	1.208	0.023	22.1
Right cheek	20	QPSK 50RB_0	21100/2535	1:1	0.053	0.03	22.18	23.00	1.208	0.064	22.1
Right tilted	20	QPSK 50RB_0	21100/2535	1:1	0.024	-0.11	22.18	23.00	1.208	0.029	22.1
	1				at the wors				1		
Right cheek	20	QPSK 1RB_50	21100/2535	1:1	0.083	0.05	23.06	24.00	1.242	0.103	22.1
				_	n Test data				1	T .	
Back side-15mm	20	QPSK 1RB_50	21100/2535	1:1	0.184	0.10	18.89	20.00	1.291	0.238	22.1
	1				Test data 5				T		
Back side-15mm	20	QPSK 50RB_0	21100/2535	1:1	0.177	-0.09	18.80	20.00	1.318	0.233	22.1
	1				n Test data	1			1		
Front side-15mm	20	QPSK 1RB_50	21100/2535	1:1	0.166	0.08	23.06	24.00	1.242	0.206	22.1
Back side-19mm	20	QPSK 1RB_50	21100/2535	1:1	0.245	0.08	23.06	24.00	1.242	0.304	22.1
Back side-19mm	20	PCC 1_0 SCC 1_99	21100/2535 20902/2515.2	1:1	0.215	-0.05	22.75	24.00	1.334	0.287	22.1
			Body	worn	Test data 5	0%RB Ser	nsor off				
Front side-15mm	20	QPSK 50RB_0	21100/2535	1:1	0.135	0.09	22.18	23.00	1.208	0.163	22.1
Back side-19mm	20	QPSK 50RB_0	21100/2535	1:1	0.185	-0.12	22.18	23.00	1.208	0.223	22.1
			Body worn	Γest da	ata at the wo	orst case v	vith Battery2#				
Back side-19mm	20	QPSK 1RB_50	21100/2535	1:1	0.242	0.04	23.06	24.00	1.242	0.300	22.1
				otspot	Test data 1	RB Senso	ron				
Front side10mm	20	QPSK 1RB_50	21100/2535	1:1	0.133	0.05	18.89	20.00	1.291	0.172	22.1
Back side-10mm	20	QPSK 1RB_50	21100/2535	1:1	0.385	-0.09	18.89	20.00	1.291	0.497	22.1
Back side-10mm	20	PCC 1_0 SCC 1_99	21100/2535 20902/2515.2	1:1	0.341	0.03	18.52	20.00	1.406	0.479	22.1
Bottom side-10mm	20	QPSK 1RB_50	21100/2535	1:1	0.385	0.05	18.89	20.00	1.291	0.497	22.1
Bottom dido Tomini		Q. O. T. T. D_OO			est data 50%			20.00	1.201	0.107	
Front side10mm	20	QPSK 50RB_0	21100/2535	1:1	0.128	0.06	18.80	20.00	1.318	0.169	22.1
Back side-10mm	20	QPSK 50RB_0	21100/2535	1:1	0.348	0.08	18.80	20.00	1.318	0.459	22.1
Bottom side-10mm	-	QPSK 50RB_0	21100/2535	1:1	0.371	0.05	18.80	20.00	1.318	0.489	22.1
2 3.33 13	~	2. 2			Test data 1			_0.00		31.00	
Front side-15mm	20	QPSK 1RB_50	21100/2535	1:1	0.166	0.08	23.06	24.00	1.242	0.206	22.1
Back side-19mm	20	QPSK 1RB_50	21100/2535	1:1	0.245	0.06	23.06	24.00	1.242	0.304	22.1
Left side-10mm	20	QPSK 1RB_50	21100/2535	1:1	0.152	0.03	23.06	24.00	1.242	0.189	22.1
Right side-10mm	20	QPSK 1RB_50	21100/2535	1:1	0.086	0.09	23.06	24.00	1.242	0.107	22.1
Bottom side-19mm	-	QPSK 1RB_50	21100/2535	1:1	0.271	0.13	23.06	24.00	1.242	0.336	22.1
25110111 5140 15111111		Z. C. (11.D_00	l		est data 50%			200	1.272	0.000	
Front side-15mm	20	QPSK 50RB_0	21100/2535	1:1	0.135	0.09	22.18	23.00	1.208	0.163	22.1
Back side-19mm	20	QPSK 50RB_0	21100/2535	1:1	0.185	-0.12	22.18	23.00	1.208	0.223	22.1
Dack Side-13HIII	20	αι οι <i>ι</i> σοινυ_0	21100/2000	1.1	0.100	-0.12	۲۲.۱۵	20.00	1.200	0.220	۲۲.۱



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	ı	•	•								1
Left side-10mm	20	QPSK 50RB_0	21100/2535	1:1	0.121	0.06	22.18	23.00	1.208	0.146	22.1
Right side-10mm	20	QPSK 50RB_0	21100/2535	1:1	0.053	0.07	22.18	23.00	1.208	0.064	22.1
Bottom side-19mm	20	QPSK 50RB_0	21100/2535	1:1	0.216	0.05	22.18	23.00	1.208	0.261	22.1
			Hotspot To	est dat	a at the wor	st case wi	th Battery2#				
Back side-10mm	20	QPSK 1RB_50	21100/2535	1:1	0.380	0.06	18.89	20.00	1.291	0.491	22.1
			T		NT2 Test F		0	T	011	011	1 1 1 .1
Test position	BW.	Test mode	Test Ch./Freg.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up	Scaled	Scaled SAR(W/kg)	Liquid Temp.
			0.11.104.		ead Test da		pomon(uziii)		100001	o,(11,1.g)	
Left cheek	20	QPSK 1RB_0	20850/2510	1:1	0.237	0.03	17.80	18.50	1.175	0.278	22.1
Left tilted	20	QPSK 1RB_0	20850/2510	1:1	0.216	0.02	17.80	18.50	1.175	0.254	22.1
Right cheek	20	QPSK 1RB_0	20850/2510	1:1	0.586	0.09	17.80	18.50	1.175	0.688	22.1
Right tilted	20	QPSK 1RB_0	20850/2510	1:1	0.303	0.08	17.80	18.50	1.175	0.356	22.1
				Hea	d Test data	(50%RB)		II.	1	<u>I</u>	
Left cheek	20	QPSK 50RB_50	20850/2510	1:1	0.233	0.02	17.70	18.50	1.202	0.280	22.1
Left tilted	20	QPSK 50RB_50	20850/2510	1:1	0.217	0.04	17.70	18.50	1.202	0.261	22.1
Right cheek	20	QPSK 50RB_50	20850/2510	1:1	0.615	0.06	17.70	18.50	1.202	0.739	22.1
Diabt abaal	20	PCC 1_99	20850/2510	4.4	0.570	0.04	47.50	40.50	4 000	0.705	00.4
Right cheek	20	SCC 1_0	21048/2529.8	1:1	0.572	-0.04	17.59	18.50	1.233	0.705	22.1
Right tilted	20	QPSK 50RB_50	20850/2510	1:1	0.321	0.01	17.70	18.50	1.202	0.386	22.1
			Head Te	st data	at the wors	t case with	Battery2#	•			
Right cheek	20	QPSK 50RB_50	20850/2510	1:1	0.607	0.01	17.70	18.50	1.202	0.730	22.1
			Во	dy wor	n Test data	1RB Sens	or on				
Back side-15mm	20	QPSK 1RB_50	21100/2535	1:1	0.197	0.08	20.11	21.00	1.227	0.242	22.1
Back side-15mm	20	PCC 1_0	21100/2535	1:1	0.173	0.04	20.06	21.00	1.242	0.215	22.1
Dack Side-15min	20	SCC 1_99	20902/2515.2	1.1	0.173	0.04	20.00	21.00	1.242	0.213	22.1
			Body	worn worn	Test data 5	0%RB Ser	nsor on				
Back side-15mm	20	QPSK 50RB_0	21100/2535	1:1	0.188	0.10	20.17	21.00	1.211	0.228	22.1
			Во	dy wor	n Test data	1RB Sens	or off				
Front side-15mm	20	QPSK 1RB_50	21100/2535	1:1	0.163	0.07	22.93	24.00	1.279	0.209	22.1
Back side-19mm	20	QPSK 1RB_50	21100/2535	1:1	0.188	0.02	22.93	24.00	1.279	0.241	22.1
				y worn	Test data 5	0%RB Ser	nsor off	Г	1	I	
Front side-15mm	20	QPSK 50RB_0	21100/2535	1:1	0.131	-0.03	21.89	23.00	1.291	0.169	22.1
Back side-19mm	20	QPSK 50RB_0	21100/2535	1:1	0.154	0.09	21.89	23.00	1.291	0.199	22.1
							vith Battery2#		ı	T	
Back side-15mm	20	QPSK 1RB_50	21100/2535	1:1	0.194	0.02	20.11	21.00	1.227	0.238	22.1
F	T 00	0001/ 100 50			Test data 1			04.00	4.007	0.400	
Front side10mm	20	QPSK 1RB_50	21100/2535	1:1	0.137	0.02	20.11	21.00	1.227	0.168	22.1
Back side-10mm	20	QPSK 1RB_50	21100/2535	1:1	0.444	-0.02	20.11	21.00	1.227	0.545	22.1
Back side-10mm	20	PCC 1_0	21100/2535	1:1	0.419	0.05	20.06	21.00	1.242	0.520	22.1
Top oids 40	20	SCC 1_99	20902/2515.2	1	0.470	0.00	20.44	24.00	4 007	0.000	20.4
Top side-10mm	20	QPSK 1RB_50	21100/2535	1:1	0.179	0.06	20.11	21.00	1.227	0.220	22.1
Front oids 10mm	20	ODCK FORD O	Hot 21100/2535	·	est data 509			24.00	1 011	0.453	20.4
Front side10mm	20	QPSK 50RB_0		1:1	0.126	-0.09	20.17	21.00	1.211	0.153	22.1
Back side-10mm	20	QPSK 50RB_0	21100/2535	1:1	0.341	0.03	20.17	21.00	1.211	0.413	22.1
Top side-10mm	20	QPSK 50RB_0	21100/2535	1:1	0.178 Test data 1	0.03	20.17	21.00	1.211	0.036	22.1
Front side-15mm	20	QPSK 1RB 50	21100/2535	1:1	0.163	0.07	22.93	24.00	1.279	0.209	22.1
Back side-19mm	20	QPSK 1RB_50	21100/2535	1:1	0.188	0.07	22.93	24.00	1.279	0.209	22.1
Left side-19mm	20	QPSK 1RB_50	21100/2535	1:1	0.166	0.02	22.93	24.00	1.279	0.448	22.1
Top side-19mm	20	QPSK 1RB_50	21100/2535	1:1	0.330	-0.01	22.93	24.00	1.279	0.446	22.1
100 3106-1311111	20	GI OK IKD_30		1	est data 509	L		27.00	1.213	0.030	۲۲.۱
Front side-15mm	20	QPSK 50RB_0	21100/2535	1:1	0.131	-0.03	21.89	23.00	1.291	0.169	22.1
. Tork side Torrill	20	_	I				mnany subject to its	1		l .	



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Back side-19mm	20	QPSK 50RB_0	21100/2535	1:1	0.154	0.09	21.89	23.00	1.291	0.199	22.1
Left side-10mm	20	QPSK 50RB_0	21100/2535	1:1	0.302	0.08	21.89	23.00	1.291	0.390	22.1
Top side-19mm	20	QPSK 50RB_0	21100/2535	1:1	0.057	0.9	21.89	23.00	1.291	0.073	22.1
			Hotspot Te	st dat	a at the wor	st case wi	th Battery2#				
Back side-10mm	20	QPSK 1RB_50	21100/2535	1:1	0.438	-0.07	20.21	21.00	1.199	0.525	22.1

Table 27: SAR of LTE Band 7 for Head and Body. Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.10 SAR Result of LTE Band 38

	ANT1 Test Record											
Test position	BW.	Test mode	Test	Duty	SAR	Power	Conducted	Tune up	Scaled		Liquid	
rest position	DVV.	rest mode	Ch./Freq.				power(dBm)	Limit(dBm)	factor	SAR(W/kg)	Temp.	
l aft ab a al-	00	ODCK ADD 50	20450/2040		ad Test data	,	22.00	04.00	4 255	0.040	00.4	
Left cheek	20	QPSK 1RB_50	38150/2610	1:1.58	0.009	0.09	22.68	24.00	1.355	0.012	22.1	
Left tilted	20	QPSK 1RB_50	38150/2610	1:1.58	0.005	0.11	22.68	24.00	1.355	0.007	22.1	
Right cheek	20	QPSK 1RB_50	38150/2610	1:1.58	0.014	0.05	22.68	24.00	1.355	0.019	22.1	
Right tilted	20	QPSK 1RB_50 PCC 1_0	38150/2610	1:1.58	0.023	-0.04	22.68	24.00	1.355	0.031	22.1	
Right tilted	20		38150/2610	1:1.58	0.019	0.05	22.48	24.00	1.419	0.027	22.1	
		SCC 1_99	37952/2590.2	Ноос	Toot data/5	00/ DD\						
L oft chook	20	QPSK 50RB_0	38150/2610	1:1.58	0.007	0.05	21.51	23.00	1.409	0.010	22.1	
Left cheek Left tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.007	0.06	21.51	23.00	1.409	0.008	22.1	
	20	QPSK 50RB_0	38150/2610	1:1.58	0.006	0.06	21.51	23.00	1.409	0.008	22.1	
Right cheek	20		38150/2610	1:1.58	0.007	0.01			1			
Right tilted	20	QPSK 50RB_0			t the worst of		21.51	23.00	1.409	0.027	22.1	
Dight tilted	20	QPSK 1RB_50	38150/2610		0.022	0.01	22.68	24.00	1.355	0.030	22.1	
Right tilted	20	QFSK IKB_50			Test data 1			24.00	1.333	0.030	22.1	
Back side-15mm	20	QPSK 1RB_50	38150/2610		0.155	0.09	20.56	22.00	1.393	0.216	22.1	
back side-15mm	20	QPSK IRB_50			l			22.00	1.393	0.216	22.1	
Back side-15mm	20	QPSK 50RB_0		1:1.58	est data 509 0.141	0.04	20.53	22.00	1.403	0.198	22.1	
back side-15mm	20	QPSK 50KB_0			l			22.00	1.403	0.196	22.1	
Frant side 15mm	20	ODCK 1DD 50	38150/2610		Test data 1			24.00	1 255	0.402	22.4	
Front side-15mm	_	QPSK 1RB_50 QPSK 1RB 50		1:1.58	0.076 0.091	0.02	22.68 22.68	24.00	1.355	0.103	22.1	
Back side-19mm	20	QPSK TRB_50	38150/2610		l			24.00	1.355	0.123	22.1	
Front side 15mm	20	ODCK FORD O			est data 509			22.00	1 400	0.000	20.4	
Front side-15mm	20	QPSK 50RB_0		1:1.58	0.058	0.05	21.51	23.00	1.409	0.082	22.1	
Back side-19mm	20	QPSK 50RB_0	38150/2610	1:1.58	0.165	0.07	21.51	23.00	1.409	0.233	22.1	
Back side-19mm	20	PCC 1_0	38150/2610	1:1.58	0.131	0.04	22.48	24.00	1.419	0.186	22.1	
		SCC 1_99	37952/2590.2	Task dak	4 41		h Datta0#					
Dook side 10mm	20	ODCK FORD O			a at the wor			22.00	1 400	0.007	20.4	
Back side-19mm	20	QPSK 50RB_0	38150/2610	1:1.58	0.161	0.03	21.51	23.00	1.409	0.227	22.1	
Frank side40mm	20	ODCK ADD 50			est data 1RI			20.00	4 202	0.000	00.4	
Front side 10mm	20	QPSK 1RB_50	38150/2610 38150/2610		0.067	0.01	20.56 20.56	22.00	1.393	0.093	22.1	
Back side-10mm	20	QPSK 1RB_50		1:1.58	0.402	0.02	20.56	22.00	1.393	0.560	22.1	
Back side-10mm	20	PCC 1_0	38150/2610	1:1.58	0.371	-0.06	20.39	22.00	1.449	0.537	22.1	
Bottom side-10mm	20	SCC 1_99 QPSK 1RB_50	37952/2590.2 38150/2610	1.1 50	0.218	0.00	20.56	22.00	1.393	0.304	22.1	
Bottom side-Tomin	20	QFSK IKB_50			t data 50%l	0.08		22.00	1.393	0.304	22.1	
Front oido10mm	20	ODSK FORR O			ı			22.00	1 402	0.102	22.1	
Front side10mm Back side-10mm	20	QPSK 50RB_0 QPSK 50RB_0	38150/2610 38150/2610		0.073	0.02 -0.04	20.53	22.00	1.403	0.103 0.425	22.1	
Bottom side-10mm	_	QPSK 50RB_0	38150/2610		0.303		20.53	22.00	1			
Pollom side-Tollim	20	QFON SUND_U			est data 1RI	0.11 3 Sensor (22.00	1.403	0.302	22.1	
Front side15mm	20	QPSK 1RB_50	38150/2610		0.076	0.02	22.68	24.00	1.355	0.102	22.1	
Back side-19mm	20	QPSK 1RB_50		1:1.58	0.076	0.02	22.68	24.00	1.355	0.103 0.123	22.1	
Left side-19mm	20	QPSK 1RB_50										
	20	QPSK 1RB_50		1:1.58	0.075	0.14	22.68	24.00	1.355	0.102	22.1	
Right side-10mm	_	QPSK 1RB_50		1:1.58	0.029	-0.02	22.68	24.00	1.355	0.039	22.1	
Bottom side-19mm	20	WE OK 1KD_00		1:1.58	0.165 st data 50%l	0.06	22.68	24.00	1.355	0.224	22.1	
Eront cido15mm	20	ODSK FODD O		•				22.00	1 400	0.002	22.1	
Front side 10mm	20	QPSK 50RB_0		1:1.58	0.058	0.05	21.51	23.00	1.409	0.082	22.1	
Back side-19mm	20	QPSK 50RB_0	38150/2610	1:1.58	0.165	0.07	21.51	23.00	1.409	0.233	22.1	



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Left side-10mm	20	QPSK 50RB_0	38150/2610	1.1 58	0.055	0.05	21.51	23.00	1.409	0.078	22.1
Right side-10mm	20	QPSK 50RB_0	38150/2610	1:1.58	0.033	0.03	21.51	23.00	1.409	0.078	22.1
	-				0.019		21.51				
Bottom side-19mm	20	QPSK 50RB_0	38150/2610	1:1.58		0.03	l	23.00	1.409	0.175	22.1
Back side-10mm	20	QPSK 1RB_50	38150/2610		at the worst 0.395	0.02	20.56	22.00	1.393	0.550	22.1
Back Side-Tollilli	20	QFSK IKB_50	30130/2010		IT2 Test Re		20.30	22.00	1.383	0.550	22.1
			Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg)1-g	Drift(dB)	power(dBm)			SAR(W/kg)	
			T		ad Test data	(1RB)	T	1	1		
Left cheek	20	QPSK 1RB_0	38150/2610	1:1.58	0.193	0.01	21.14	22.00	1.219	0.235	22.1
Left tilted	20	QPSK 1RB_0	38150/2610	1:1.58	0.194	0.14	21.14	22.00	1.219	0.236	22.1
Right cheek	20	QPSK 1RB_0	38150/2610	1:1.58	0.507	0.02	21.14	22.00	1.219	0.618	22.1
Right tilted	20	QPSK 1RB_0	38150/2610	1:1.58	0.501	0.05	21.14	22.00	1.219	0.611	22.1
	1		Т .		Test data(5		Т	ı	1		
Left cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.187	-0.12	21.01	22.00	1.256	0.235	22.1
Left tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.182	0.03	21.01	22.00	1.256	0.229	22.1
Right cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.497	0.05	21.01	22.00	1.256	0.624	22.1
Right tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.533	0.18	21.01	22.00	1.256	0.669	22.1
Right tilted	20	PCC 1_0	38150/2610	1:1.58	0.491	-0.07	20.82	22.00	1.312	0.644	22.1
		SCC 1_99	37952/2590.2								
5	1	000//	ı		t the worst o						
Right tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.523	0.01	21.01	22.00	1.256	0.657	22.1
D 1 11 45	00	0001/400 50			Test data 1			00.00	4 407		00.4
Back side-15mm	20	QPSK 1RB_50	38000/2595	1:1.58	0.183	-0.15	22.33	23.00	1.167	0.214	22.1
D 1 11 45		0001/ 5000 05			est data 509			00.00	1 404		00.4
Back side-15mm	20	QPSK 50RB_25	38000/2595	1:1.58	0.181	-0.05	22.23	23.00	1.194	0.216	22.1
Back side-15mm	20	PCC 1_0	38099/2604	1:1.58	0.127	0.11	22.19	23.00	1.205	0.153	22.1
		SCC 1_99	37901/2584.2	-1	Tank data 4	DD C	#				
Frant side 45mm	20	ODCK ADD 50			Test data 1		ı	24.00	4 400	0.000	00.4
Front side-15mm	20	QPSK 1RB_50 QPSK 1RB 50	38000/2595	1:1.58	0.072 0.072	0.08 -0.06	23.55 23.55	24.00	1.109	0.080	22.1
Back side-19mm	20	QPSK IRB_50	38000/2595	1:1.58	l			24.00	1.109	0.080	22.1
Front side 15mm	20	QPSK 50RB 25	38000/2595		est data 509		ı	22.00	1 122	0.057	22.4
Front side-15mm Back side-19mm		QPSK 50RB_25	38000/2595	1:1.58 1:1.58	0.050 0.053	0.11	22.46 22.46	23.00 23.00	1.132	0.057	22.1 22.1
Dack side-19iiiii	20	QF3K 50KB_25	l .		l		th Battery2#	23.00	1.132	0.060	22.1
Back side-15mm	20	QPSK 50RB_25	38000/2595	1:1.58	0.178	0.09	22.23	23.00	1.194	0.213	22.1
Dack Side-15min	20	QF3K 30KB_23		L	est data 1RI		l	23.00	1.194	0.213	22.1
Front side10mm	20	QPSK 1RB_50	38000/2595		0.107	0.03	22.33	23.00	1.167	0.125	22.1
Back side-10mm	20	QPSK 1RB_50	38000/2595	1:1.58	0.167	0.03	22.33	23.00	1.167	0.125	22.1
Top side-10mm	20	QPSK 1RB_50	38000/2595	1:1.58	0.107	0.06	22.33	23.00	1.167	0.193	22.1
Top side-Toffilli	20	QI SK IKB_50	l .	L	st data 50%		l .	23.00	1.107	0.142	22.1
Front side10mm	20	QPSK 50RB 25		1:1.58	0.090	0.09	22.23	23.00	1.194	0.107	22.1
Back side-10mm	20	QPSK 50RB_25	38000/2595	1:1.58	0.168	0.03	22.23	23.00	1.194	0.201	22.1
Top side-10mm	20	QPSK 50RB_25	38000/2595	1:1.58	0.108	0.02	22.23	23.00	1.194	0.201	22.1
. 00 0.00 1011111		S. 511 5011B_25	l .		est data 1RI		l .	20.00		V.171	
Front side15mm	20	QPSK 1RB_50	38000/2595	1:1.58	0.072	0.08	23.55	24.00	1.109	0.080	22.1
Back side-19mm	20	QPSK 1RB_50	38000/2595	1:1.58	0.072	-0.02	23.55	24.00	1.109	0.081	22.1
Left side-10mm	20	QPSK 1RB_50	38000/2595	1:1.58	0.251	0.02	23.55	24.00	1.109	0.001	22.1
Lott oldo-Tollilli	20	PCC 1_0	38099/2604	1.1.00	0.201	0.00	20.00	27.00	1.100	0.270	££. I
Left side-10mm	20		37901/2584.2	1:1.58	0.218	-0.03	23.21	24.00	1.199	0.261	22.1
Top side-19mm	20	QPSK 1RB_50	38000/2595	1:1.58	0.041	0.11	23.55	24.00	1.109	0.045	22.1
100 0100 10111111	20	3. S.C. ITED_00	l		st data 50%			2-7.00	00	0.0-10	
Front side15mm	20	QPSK 50RB_25	ı	1:1.58	0.050	0.11	22.46	23.00	1.132	0.057	22.1
i TOTIL SIDE FUTIIII	20	αι οιλουλυ_20	00000/2030	1.1.50	0.000	0.11	∠∠. † U	20.00	1.102	0.001	ZZ. I



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Back side-19mm	20	QPSK 50RB_25	38000/2595	1:1.58	0.053	0.06	22.46	23.00	1.132	0.060	22.1
Left side-10mm	20	QPSK 50RB_25	38000/2595	1:1.58	0.211	0.01	22.46	23.00	1.132	0.239	22.1
Top side-19mm	20	QPSK 50RB_25	38000/2595	1:1.58	0.030	0.06	22.46	23.00	1.132	0.034	22.1
Hotspot Test data at the worst case with Battery2#											
Left side-10mm	20	QPSK 1RB_50	38000/2595	1:1.58	0.247	0.03	23.55	24.00	1.109	0.274	22.1

Table 28: SAR of LTE Band 38 for Head and Body. Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.11 SAR Result of WIFI 2.4G

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
					Hea	ad Test data	a				
Left cheek	802.11b	6/2437	99.52%	1.005	0.496	0.04	17.85	18.50	1.161	0.579	22
Left tilted	802.11b	6/2437	99.52%	1.005	0.428	-0.04	17.85	18.50	1.161	0.499	22
Right cheek	802.11b	6/2437	99.52%	1.005	0.244	0.01	17.85	18.50	1.161	0.285	22
Right tilted	802.11b	6/2437	99.52%	1.005	0.257	0.03	17.85	18.50	1.161	0.300	22
	•			Head Te	est data at th	ne worst cas	se with Battery2	#	•	•	•
Left cheek	802.11b	6/2437	99.52%	1.005	0.487	0.01	17.85	18.50	1.161	0.568	22
	•			Boo	dy worn Tes	t data (Sepa	arate 15mm)		•		•
Front side	802.11b	6/2437	99.52%	1.005	0.075	0.07	19.71	20.50	1.199	0.090	22
Back side	802.11b	6/2437	99.52%	1.005	0.147	-0.04	19.71	20.50	1.199	0.177	22
			Body wor	n Test dat	a at the wor	st case with	Battery2#(Sep	arate 15mm)			
Back side	802.11b	6/2437	99.52%	1.005	0.144	-0.01	19.71	20.50	1.199	0.174	22
	•			H	otspot Test	data (Separ	ate 10mm)		•		•
Front side	802.11b	6/2437	99.52%	1.005	0.112	-0.12	19.71	20.50	1.199	0.135	22
Back side	802.11b	6/2437	99.52%	1.005	0.344	-0.06	19.71	20.50	1.199	0.415	22
Right side	802.11b	6/2437	99.52%	1.005	0.082	0.02	19.71	20.50	1.199	0.099	22
Top side	802.11b	6/2437	99.52%	1.005	0.181	0.04	19.71	20.50	1.199	0.218	22
			Hotspot	Test data	at the wors	t case with I	Battery2#(Sepa	rate 10mm)		•	
Back side	802.11b	6/2437	99.52%	1.005	0.338	-0.02	19.71	20.50	1.199	0.407	22

Table 29: SAR of WIFI 2.4G for Head and Body.

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3)When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR test for the other 802.11 modes are not required.

Mode	Tune-up (dBm)	Tune-up (mW)	Max Reported SAR(W/kg)	Adjusted SAR(W/kg)	SAR Test (Yes/No)
802.11b	18.50	70.79	0.579	1	Yes
802.11g	18.50	70.79	1	0.579	No
802.11n-HT20	13.50	22.39	1	0.183	No



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8.3.12 SAR Result of WIFI 5G

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
					Head Test of	data of U-N	I-2A				
Left cheek	802.11a	52/5260	96.87%	1.032	0.252	0.00	17.51	18.50	1.256	0.327	22.2
Left tilted	802.11a	52/5260	96.87%	1.032	0.207	0.00	17.51	18.50	1.256	0.268	22.2
Right cheek	802.11a	52/5260	96.87%	1.032	0.127	0.09	17.51	18.50	1.256	0.165	22.2
Right tilted	802.11a	52/5260	96.87%	1.032	0.193	0.03	17.51	18.50	1.256	0.250	22.2
	T	ı		1	Head Test of	1					
Left cheek	802.11ac 80			1.136	0.078	0.14	10.08	11.50	1.387	0.123	22.2
Left tilted	802.11ac 80			1.136	0.129	0.11	10.08	11.50	1.387	0.203	22.2
Right cheek	802.11ac 80			1.136	0.049	0.03	10.08	11.50	1.387	0.077	22.2
Right tilted	802.11ac 80	122/5610	88.04%	1.136	0.050	0.08	10.08	11.50	1.387	0.079	22.2
		[Head Test						
Left cheek	802.11ac 80			1.136	0.088	0.05	10.14	11.50	1.368	0.137	22.2
Left tilted	802.11ac 80			1.136	0.106	0.11	10.14	11.50	1.368	0.165	22.2
	802.11ac 80			1.136	0.075	0.03	10.14	11.50	1.368	0.117	22.2
Right tilted	802.11ac 80	155/5775		1.136	0.073	0.15	10.14	11.50	1.368	0.113	22.2
	T	I					with Battery2#				
Left cheek	802.11a	52/5260	96.87%	1.032	0.249	0.04	17.51	18.50	1.256	0.323	22.2
						· · · · ·	Separate 15mm	<u> </u>			
Front side	802.11a	52/5260	96.87%	1.032	0.124	0.01	17.51	18.50	1.256	0.161	22.2
Back side	802.11a	52/5260	96.87%	1.032	0.377	-0.09	17.51	18.50	1.256	0.489	22.2
		/====				·	Separate 15mm				
Front side		144/5720		1.032	0.067	0.06	16.45	17.50	1.274	0.088	22.2
Back side	802.11a	144/5720		1.032	0.207	0.00	16.45	17.50	1.274	0.272	22.2
		l /				·	eparate 15mm)				
Front side		159/5795		1.070	0.083	-0.12	14.12	15.50	1.374	0.122	22.2
Back side	802.11n 40	159/5795		1.070	0.145	0.04	14.12	15.50	1.374	0.213	22.2
De de date	000.44-						attery2#(Separ		4.050	0.400	00.0
Back side	802.11a	52/5260	96.87%	1.032	0.372	-0.04	17.51	18.50	1.256	0.482	22.2
Frant aida	802.11a	48/5240	06.070/			` `	parate 10mm)	14.50	1.074	0.222	22.2
Front side			96.87%	1.032	0.245	0.02	13.45	14.50	1.274	0.322	22.2
Back side Right side	802.11a 802.11a	48/5240 48/5240	96.87% 96.87%	1.032 1.032	0.452 0.14	0.00	13.45 13.45	14.50 14.50	1.274	0.594 0.184	22.2
Top side	802.11a	48/5240	96.87%	1.032	0.14	0.09	13.45	14.50	1.274	0.150	22.2
Top side	002.11a	40/3240	90.07 /6				parate 10mm)	14.50	1.274	0.130	22.2
Front side	802.11n 40	150/5705	03 /10%	1.070	0.211	0.08	14.12	15.50	1.374	0.310	22.2
Back side		159/5795		1.070	0.240	0.12	14.12	15.50	1.374	0.353	22.2
Right side		159/5795		1.070	0.240	0.12	14.12	15.50	1.374	0.353	22.2
Top side	802.11n 40			1.070	0.152	0.03	14.12	15.50	1.374	0.223	22.2
1 op side	302.111170						ttery2#(Separa		1.074	0.220	
Back side	802.11a	48/5240	96.87%	1.032	0.446	0.04	13.45	14.50	1.274	0.586	22.2
Test position	Tost mode	Test Ch./Freq.	Duty Cycle	Duty Cycle	SAR (W/kg)10-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
			Product	specific 1	0g SAR Tes	t data of U-	NII-2A(Separat	e 0mm)			
Front side	802.11a	52/5260	96.87%	1.032	0.156	0.09	17.51	18.50	1.256	0.202	22.2
Back side	802.11a	52/5260	96.87%	1.032	0.736	0.00	17.51	18.50	1.256	0.954	22.2
Right side	802.11a	52/5260	96.87%	1.032	0.128	0.03	17.51	18.50	1.256	0.166	22.2



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Top side	802.11a	52/5260	96.87%	1.032	0.663	0.11	17.51	18.50	1.256	0.860	22.2
	Product specific 10g SAR Test data of U-NII-2C(Separate 0mm)										
Front side	802.11a	144/5720	96.87%	1.032	0.138	0.02	16.45	17.50	1.274	0.181	22.2
Back side	802.11a	144/5720	96.87%	1.032	0.365	0.00	16.45	17.50	1.274	0.480	22.2
Right side	802.11a	144/5720	96.87%	1.032	0.037	-0.01	16.45	17.50	1.274	0.049	22.2
Top side	802.11a	144/5720	96.87%	1.032	0.358	0.02	16.45	17.50	1.274	0.471	22.2
	Product specific 10g SAR Test data at the worst case with Battery2#(Separate 0mm)										
Back side	802.11a	52/5260	96.87%	1.032	0.726	0.10	17.51	18.50	1.256	0.941	22.2

Table 30: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Each channel was tested at the lowest data rate.
- 4)When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is \leq 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- 5)For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function
- 6)When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.13 SAR Result of BT

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Left cheek	DH5	39/2441	76.80%	1.302	0.041	0.05	9.64	10.50	1.219	0.065	22.0
Left tilted	DH5	39/2441	76.80%	1.302	0.005	0.02	9.64	10.50	1.219	0.008	22.0
Right cheek	DH5	39/2441	76.80%	1.302	0.023	0.01	9.64	10.50	1.219	0.037	22.0
Right tilted	DH5	39/2441	76.80%	1.302	0.002	-0.03	9.64	10.50	1.219	0.003	22.0
				Head ⁻	Test data at	the worst ca	ase with Battery2	2#			
Left cheek	DH5	39/2441	76.80%	1.302	0.038	0.01	9.64	10.50	1.219	0.060	22.0
				В	ody worn Te	st data (Sep	arate 15mm)				
Front side	DH5	39/2441	76.80%	1.302	0.002	-0.17	9.64	10.50	1.219	0.002	22.0
Back side	DH5	39/2441	76.80%	1.302	0.005	0.01	9.64	10.50	1.219	0.006	22.0
			Body wo	orn Test da	ata at the wo	orst case wit	h Battery2#(Sep	arate 15mm)			
Back side	DH5	39/2441	76.80%	1.302	0.005	0.02	9.64	10.50	1.219	0.006	22.0
				ŀ	Hotspot Test	data (Sepa	rate 10mm)				
Front side	DH5	39/2441	76.80%	1.302	0.012	0.07	9.64	10.50	1.219	0.015	22.0
Back side	DH5	39/2441	76.80%	1.302	0.015	0.02	9.64	10.50	1.219	0.018	22.0
Right side	DH5	39/2441	76.80%	1.302	0.002	0.06	9.64	10.50	1.219	0.002	22.0
Top side	DH5	39/2441	76.80%	1.302	0.003	-0.01	9.64	10.50	1.219	0.004	22.0
			Hotspo	t Test dat	a at the wor	st case with	Battery2#(Sepa	rate 10mm)			
Back side	DH5	39/2441	76.80%	1.302	0.014	0.03	9.64	10.50	1.219	0.018	22.0

Note:

1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN+BT	Y	Y	Υ	Υ
2	WWAN+WIFI 2.4G	Υ	Y	Υ	Υ
3	WWAN+WIFI 5G	Y	Y	Υ	Υ
4	WWAN+BT+WIFI 5G	Υ	Y	Υ	Y
5	BT+WIFI 5G	Y	Y	Y	Υ

- 1) The device does not support DTM function.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot



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8.4.2 Simultaneous Transmission SAR Summation Scenario

ŏ.4.	2 Simul	taneot	is iran						cena	rio		\//iEi ∧∽	ntenna SA	ARmay	
				Maii	n Antenna(Ant1) SAR	max (W/	kg)				VVICIAI	(W/kg)	AMIIIAX	Summed 1g
Tes	t position	GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	Band 38	WLAN 2.4G	WLAN 5G	ВТ	SARmax (W/kg)
	Left Touch	0.083	0.035	0.086	0.112	0.087	0.085	0.069	0.091	0.056	0.012	0.579	0.327	0.065	0.691
Head	Left Tilt	0.056	0.032	0.118	0.073	0.064	0.085	0.058	0.068	0.046	0.008	0.499	0.268	0.008	0.617
пеац	Right Touch	0.109	0.043	0.080	0.082	0.107	0.081	0.087	0.125	0.104	0.019	0.285	0.165	0.037	0.410
	Right Tilt	0.060	0.032	0.069	0.074	0.072	0.117	0.056	0.072	0.071	0.031	0.300	0.250	0.003	0.417
Body-	Front	0.009	0.159	0.316	0.354	0.091	0.310	0.387	0.100	0.206	0.103	0.090	0.161	0.002	0.548
worn	Back	0.014	0.299	0.583	0.437	0.112	0.657	0.256	0.111	0.304	0.233	0.177	0.489	0.006	1.146
	Front	0.134	0.219	0.316	0.354	0.145	0.310	0.387	0.147	0.206	0.103	0.135	0.310	0.015	0.697
	Back	0.220	0.522	0.583	0.437	0.211	0.657	0.427	0.272	0.497	0.560	0.415	0.594	0.018	1.251
	Left	0.078	0.109	0.166	0.145	0.060	0.168	0.153	0.031	0.189	0.102	/	/	/	0.189
Hotspot	Right	0.127	0.064	0.110	0.090	0.091	0.106	0.098	0.105	0.107	0.039	0.099	0.265	0.002	0.392
	Тор	/	/	/	/	/	/	/	/	/	/	0.218	0.223	0.004	0.223
	Bottom	0.138	0.566	0.700	0.526	0.139	0.649	0.432	0.155	0.497	0.304	/	/	/	0.700
				Maii	n Antenna(Ant1) SAR	max (W/	kg)				WiFi Ar	ntenna S/ (W/kg)	ARmax	Summed
Tes	t position	GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band	WLAN 2.4G	WLAN 5G	вт	10g SARmax
	Front	/	/	/	/	/	/	/	/	/	38	/	0.202	/	0.202
	Back	/	,	,	,	,	,	,	,	1	,	/	0.954	,	0.954
Product		/	,	/	/	,	,	/	,	,	1	/	/	/	0.000
Specific 10-g	Right	/	/	,	/	,	,	,	/	,	,	/	0.166	,	0.166
SAR	Top	/	/	/	/	,	,	,	,	,	,	/	0.860	,	0.860
	Bottom	/	/	/	/	/	,	/	/	,	/	/	/	,	0.000
	Bottom	,	,	DIV	' Antenna(A	I / Ant2) SARr	nax (\///	(a)				WiFi Ar	ntenna S	ARmax	Summed
Toe	t position			J.,	I	I	Παχ (**/	\9/ 			LTE		(W/kg)		1g
163	t position	GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	Band 38	WLAN 2.4G	WLAN 5G	ВТ	SARmax (W/kg)
	Left Touch	/	/	0.550	0.672	0.492	0.560	0.604	0.565	0.280	0.235	0.579	0.327	0.065	1.251
Цоод	Left Tilt	/	/	0.551	0.707	0.339	0.600	0.734	0.479	0.261	0.236	0.499	0.268	0.008	1.233
Head	Right Touch	/	/	0.688	0.702	0.798	0.706	0.791	0.952	0.739	0.624	0.285	0.165	0.037	1.237
	Right Tilt	/	/	0.815	0.906	0.545	0.781	0.972	0.542	0.386	0.669	0.300	0.250	0.003	1.272
Body-	Front	/	/	0.354	0.486	0.099	0.334	0.506	0.106	0.209	0.080	0.090	0.161	0.002	0.667
worn	Back	/	/	0.286	0.460	0.150	0.339	0.753	0.194	0.241	0.080	0.177	0.489	0.006	1.242
	Front	/	/	0.365	0.563	0.167	0.393	0.595	0.212	0.209	0.125	0.135	0.310	0.015	0.905
	Back	/	/	0.681	0.922	0.302	0.663	0.993	0.402	0.545	0.201	0.415	0.594	0.018	1.587
l latan at	Left	/	/	0.138	0.079	0.023	0.135	0.082	0.031	0.448	0.278	/	/	/	0.448
Hotspot	Right	/	/	0.045	0.020	0.088	0.029	0.017	0.106	0.104	0.018	0.099	0.265	0.002	0.371
	Тор	/	/	0.973	0.908	0.116	0.871	1.042	0.132	0.093	0.045	0.218	0.223	0.004	1.265
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	0.000
				DIV	' Antenna(A	Ant2) SARr	nax (W/l	(g)				WiFi Ar	ntenna S/ (W/kg)	ARmax	Summed
Tes	t position	GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 38	WLAN 2.4G	WLAN 5G	ВТ	10g SARmax (W/kg)
	Front	/	/	/	/	/	/	/	/	/	/	/	0.202	/	0.202
Product	Back	/	/	/	/	/	/	/	/	/	/	/	0.954	/	0.954
Specific		/	/	/	/	/	/	/	/	/	/	/	/	/	0.000
10-g	Right	/	/	/	/	/	/	/	/	/	/	/	0.166	/	0.166
SAR	Тор	/	/	/	/	/	/	/	/	/	/	/	0.860	/	0.860
	Bottom	/	1	/	/	1	1	/	1	/	/	/	/	1	0.000



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9 Equipment list

Test Platform	SPEAG DASY5 Professional
Description	SAR Test System (Frequency range 300MHz-6GHz)
Software Reference	DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

Hardware Reference

	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
\boxtimes	Twin Phantom	SPEAG	SAM 5	1481	NCR	NCR
\boxtimes	Twin Phantom	SPEAG	SAM 6	1824	NCR	NCR
	Twin Phantom	SPEAG	SAM 7	1702	NCR	NCR
	DAE	SPEAG	DAE4	1327	2020-10-20	2021-10-19
\boxtimes	DAE	SPEAG	DAE3	414	2020-12-30	2021-12-29
\boxtimes	E-Field Probe	SPEAG	EX3DV4	7620	2021-02-05	2022-02-04
	E-Field Probe	SPEAG	EX3DV4	3789	2020-06-16	2021-06-15
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3982	2020-10-28	2021-10-27
\boxtimes	Validation Kits	SPEAG	D835V2	4d105	2019-12-17	2022-12-16
	Validation Kits	SPEAG	D1750V2	1149	2019-05-21	2022-05-20
\boxtimes	Validation Kits	SPEAG	D1900V2	5d028	2019-12-17	2022-12-16
\boxtimes	Validation Kits	SPEAG	D2450V2	733	2019-12-17	2022-12-16
	Validation Kits	SPEAG	D2600V2	1125	2019-05-20	2022-05-19
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1165	2019-12-20	2022-12-19
	Agilent Network Analyzer	Agilent	E5071C	MY46523591	2020-04-16	2021-04-15
	Dielectric Probe Kit	Agilent	85070E	US01440210	NCR	NCR
\boxtimes	Universal Radio Communication Tester	R&S	CMW500	111637	2020-04-16	2021-04-15
\boxtimes	Radio Communication Analyzer	Anritsu	MT8821C	6201502984	2020-06-11	2021-06-10
	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
\boxtimes	Signal Generator	Agilent	N5171B	MY53050736	2020-04-15	2021-04-14
	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
\boxtimes	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	073501433	NCR	NCR
\boxtimes	Power Meter	Agilent	E4416A	GB41292095	2020-04-15	2021-04-14
	Power Sensor	Agilent	8481H	MY41091234	2020-04-15	2021-04-14
	Power Sensor	R&S	NRP-Z92	100025	2020-04-16	2021-04-15
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR



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	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
	50 Ω coaxial load	Mini-Circuits	KARN-50+	00850	NCR	NCR
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
	Speed reading thermometer	MingGao	T809	NA	2020-04-21	2021-04-20
	Humidity and Temperature Indicator	KIMTOKA	KIMTOKA	NA	2020-04-21	2021-04-20

Note: All the equipments are within the valid period when the tests are performed.

10 Calibration certificate

Please see the Appendix C

11 **Photographs**

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs





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