

FCC SAR TEST REPORT

Report No.: SET2019-03635

Product: LTE Digital Mobile Phone

Brand Name: nubia

Model No.: NX629J

FCC ID: 2AHJO-NX629J

Applicant: Nubia Technology Co., Ltd.

10/F, Tower A, Hans Innovation Mansion, North Ring

Address: Rd., No. 9018, High-Tech Park, Nanshan District, Shenzhen,

China.

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, East of Shigu Xili Industrial Zone, Nanshan

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Test Report

Product. LTE Digital Mobile Phone

FCC ID...... 2AHJO-NX629J

10/F, Tower A, Hans Innovation Mansion, North Ring

Applicant Address.....: Rd.,No.9018, High-Tech Park, Nanshan District,

Shenzhen, China.

Manufacturer.....: Nubia Technology Co., Ltd.

Manufacturer Address: 10/F, Tower A, Hans Innovation Mansion, North Ring

Rd., No. 9018, High-Tech Park, Nanshan District,

Shenzhen, China.

Test Standards........: 47CFR § 2.1093- Radiofrequency Radiation Exposure

Evaluation: Portable Devices;

ANSI C95.1–1992: Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz –

300 GHz.(IEEE Std C95.1-1991)

IEEE 1528–2013: IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless

Communications Devices: Measurement Techniques

Test Result.....: Pass

Test Date 2019.03.15-2019.03.26

Tested by

2019-04-16

Mei Chun, Test Engineer

-

Reviewed by.....: 2019-04-16

Chris You, Senior Engineer

Approved by.....

2019-04-16

Shuangwen Zhang, Manager

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1. Administrative Data

1.1 Testing Laboratory

Test Site: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd

Address: Electronic Testing Building, No. 43 Shahe Road, Xili Jiedao, Nanshan

District, Shenzhen, Guangdong, China

CNAS Lab Code: CCIC-SET is a third party testing organization accredited by China

National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is

L1659.

NVLAP Lab Code: CCIC-SET is a third party testing organization accredited by NVLAP

according to ISO/IEC 17025. The accreditation certificate number is

201008-0.

FCC Registration: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC

Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN5031,

valid time is until December 31, 2019.

ISED Registration: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC

Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Aug.

03, 2019.

Test Environment Temperature ($^{\circ}$ C): 21 $^{\circ}$ C

Condition: Relative Humidity (%): 60%

Atmospheric Pressure (kPa): 86KPa-106KPa

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2. Equipment Under Test (EUT)

Identification of the Equipment under Test

Device Type: Portable

Exposure Category: Population/Uncontrolled

Sample Name: LTE Digital Mobile Phone

Brand Name: nubia

Model Name: NX629J

GSM850MHz/1900MHz,

WCDMA 850MHz /1900MHz /1700;CDMA BC0/BC1,

Support Band LTE Band 2/4/5/7/12/17/25/26/30/41/66,

WIFI2.4G&5G

GSM850MHz/1900MHz,

WCDMA 850MHz /1900MHz /1700;CDMA BC0/BC1,

Test Band LTE Band 2/4/5/7/12/17/25/26/30/41/66,

WIFI2.4G&5G

IMEI No. 866280040011240/866280040011257

WIFI Mode 2*2 MIMO for 2.4/5GHz WLAN

Multi Class GPRS: Class 12; EGPRS: Class 12

General

Development Stage

Identical Prototype

description:

Accessories Power Supply

Hotspot 2.4GHz WLAN support Hotspot mode

Antenna type Internal Antenna

Operation mode GSM /WCDMA / LTE /WIFI

GSM(GMSK), UMTS(QPSK), LTE(QPSK, 16QAM, 64QAM),

Modulation mode WIFI(OFDM/DSSS) ,BT(GFSK/π /4-DQPSK/8-DPSK)

DTM mode Not support

Hardware Version NX629J_V1AMB

Software Version NX629J_ENCommon_V1.06

Max. SAR Value Head: 1.045 W/Kg

Body: 0.755 W/Kg(Limit:1.6W/Kg, 10mm distance)

NOTE:

a. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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EUT testing configuration

Tested Band	Transmitter Frequency Range	Receiver Frequency Range			
GSM850:	824-849 MHz	869-894 MHz			
GSM1900:	1850-1910 MHz	1930-1990 MHz			
UMTS Band II:	1850-1910 MHz	1930-1990 MHz			
UMTS Band IV:	1710-1755 MHz	2110-2155 MHz			
UMTS Band V:	824-849 MHz	869-894 MHz			
CDMA BC0	815-850 MHz	860-895 MHz			
CDMA BC1	1850-1910 MHz	1930-1990 MHz			
LTE Band2:	1850-1910 MHz	1930-1990 MHz			
LTE Band4:	1710-1755 MHz	2110-2155 MHz			
LTE Band5:	824-849 MHz	869-894 MHz			
LTE Band7:	2500-2570 MHz	2620-2690 MHz			
LTE Band12:	698-716 MHz	728-746 MHz			
LTE Band17:	704-716 MHz	734-746 MHz			
LTE Band25:	1850-1915 MHz	1930-1995 MHz			
LTE Band26:	814-849 MHz	859-894 MHz			
LTE Band30:	2305-2315 MHz	2350-2360 MHz			
LTE Band41:	2496-269				
LTE Band66:	1710-1780 MHz	2110-2200 MHz			
WIFI:	2412-2462 MHz				
	5150-5250 MHz				
	5250-5350 MHz				
	5470-5725 MHz				
	5745-5825 MHz				
Bluetooth:	2402-248				
2100000	128-190-251(GSM850)	70 11111			
	512-661-810(GSM1900)				
	9262-9400-9538(UMTS Band II)				
	1312-1412-1513(UMTS Band IV)				
	4132-4183-4233(UMTS Band V)				
	1013-384-777(CDMA BC0)				
	25-600-1175(CDMA BC1)				
	18700-18900-19100(LTE Band 2 Bandwidth 20M)				
	20050-20175-20300(LTE Band 4 Bandwidth 20M)				
	20450-20525-20600(LTE Band 5	,			
Test channels(low-mid-high):	`	ndwidth 20M)			
rest chamiels (low find high).	23060-23095-23130(LTE Band 12 Bandwidth 10M)				
	23780-23790-23800(LTE Band 17 Bandwidth 10M)				
	23060-23095-23130(LTE Band 25 Bandwidth 20M)				
	23780-23790-23800(LTE Band 25 Bandwidth 20M) 23780-23790-23800(LTE Band 26 Bandwidth 15M)				
	25780-25790-25800(LTE Band 26 Bandwidth 15M) 27110-27110-27110(LTE Band 30 Bandwidth 20M)				
	23780-23790-23800(LTE Band 41 Bandwidth 20M)				
	27310-27460-27560(LTE Band 66 Bandwidth 20M)				
	1-6-11(WIFI 2.4G 802.11b) 5190-5270-5590-5795 (WIFI 5G)				
	0-39-78(BT)				

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3. SAR Summary

Highest Standalone SAR Summary

Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
	GSM850	1.045	
	GSM1900	0.709	
	WCDMA Band V	0.957	
	WCDMA Band II	0.613	
	WCDMA Band IV	0.143	
	CDMA BC0	0.937	
	CDMA BC1	0.765	
	LTE Band 2	0.578	
	LTE Band 4	0.600	
	LTE Band 5	0.729	
Head	LTE Band 7	0.166	1.045
	LTE Band 12	0.076	
	LTE Band 17	0.065	
	LTE Band 25	0.591	
	LTE Band 26	0.788	
	LTE Band 30	0.323	
	LTE Band 41	0.193	
	LTE Band 66	66 0.290	
	WIFI 2.4G	0.421	
	WIFI 5G	0.414	
	ВТ	0.127	

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Exposure	Frequency	Scaled	Highest Scaled
Position	Band	1g-SAR(W/kg)	1g-SAR(W/kg)
	GSM850	0.755	
	GSM1900	0.750	
	WCDMA Band V	0.518	
	WCDMA Band II	0.445	
	WCDMA Band IV	0.201	
	CDMA BC0	0.571	
	CDMA BC1	0.463	
	LTE Band 2	0.243	
	LTE Band 4	0.257	
Body-worn	LTE Band 5	0.282	
(10mm Gap)	LTE Band 7	0.138	0.755
(Tomin Gap)	LTE Band 12	0.029	
	LTE Band 17	0.030	
	LTE Band 25	0.244	
	LTE Band 26	0.305	
	LTE Band 30	0.446	
	LTE Band 41	0.187	
	LTE Band 66	0.263	
	WIFI 2.4G	0.063	
	WIFI 5G	0.186	
	ВТ	0.151	

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Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
	GSM850	0.755	
	GSM1900	0.750	
	WCDMA Band V	0.518	
	WCDMA Band II	0.445	
	WCDMA Band IV	0.201	
	CDMA BC0	0.571	
	CDMA BC1	0.463	
	LTE Band 2	0.243	
Listanot	LTE Band 4	0.257	
Hotspot	LTE Band 5	0.282	0.755
(10mm Gap)	LTE Band 7	0.138	
	LTE Band 12	0.029	
	LTE Band 17	0.030	
	LTE Band 25	0.244	
	LTE Band 26	0.305	
	LTE Band 30	0.446	
	LTE Band 41	0.187	
	LTE Band 66	0.263	
	WIFI 2.4G	0.063	

Highest Simultaneous SAR Summary

Exposure Position	Frequency Band	Highest Scaled 1g-SAR(W/kg)
Head	WWAN(GSM850)&WIFI 5G	1.459
Hotspot (10mmGap)	WWAN(GSM850)&WIFI 2.4G	0.818

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4. Specific Absorption Rate (SAR)

4.1 Introduction

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

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

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

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

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \frac{\delta T}{\delta t}$$

where C is the specific head capacity, δT is the temperature rise and δt the exposure duration, or related to the electrical field in the tissue by

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

where σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the rms electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

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4.2 Applicable Standards and Limits

4.2.1 Applicable Standards

47CFR § 2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices				
ANSI C95.1-1992	Safety Levels with Respect to Human Exposure to Radio Frequency				
	Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)				
IEEE 1528–2013	IEEE Recommended Practice for Determining the Peak Spatial-Average				
	Specific Absorption Rate (SAR) in the Human Head from Wireless				
	Communications Devices: Measurement Techniques				
KDB 248227 D01	v02r02 802.11 Wi-Fi SAR				
KDB 447498 D01	v06 General RF Exposure Guidance				
KDB 648474 D04	v01r03 Handset SAR				
KDB 865664 D01	v01r04 SAR Measurement 100MHz to 6GHz				
KDB 865664 D02	v01r02 SAR Exposure Reporting				
KDB 941225 D01	v03r01 3G SAR Procedures				
KDB 941225 D05	v02r05 SAR for LTE Devices				
KDB 941225 D05A	v01r02 LTE Rel.10 KDB Inquiry Sheet				
KDB 941225 D06	v02r01 Hotspot Mode				

4.2.2 RF exposure Limits

Human Exposure	Uncontrolled Environment General Population
Spatial Peak SAR* (Brain/Body)	1.60 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g
Spatial Peak SAR*** (Limbs)	4.00 mW/g

The limit applied in this test report is shown in bold letters. Notes:

- * 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
 - ** 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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4.3 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SATIMO. The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6mm).

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.



SAM Twin Phantom

4.4 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SATIMO as an integral part of the COMOSAR test system.

The device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.



Device holder

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4.5 Probe Specification



Construction Symmetrical design with triangular core

Interleaved sensors

Built-in shielding against static charges

PEEK enclosure material (resistant to organic solvents,

e.g., DGBE)

Calibration ISO/IEC 17025 calibration service available.

Frequency 700 MHz to 3 GHz;

Linearity: ± 0.5 dB (700 MHz to 3 GHz)

Directivity ± 0.25 dB in HSL (rotation around probe axis)

± 0.5 dB in tissue material (rotation normal to probe

axis)

Dynamic Range 1.5 μ W/g to 100 mW/g;

Linearity: ± 0.5 dB

Dimensions Overall length: 330 mm (Tip: 20 mm)

Tip diameter: 5 mm

Distance from probe tip to dipole centers: <2.7 mm

Application General dosimetry up to 3 GHz

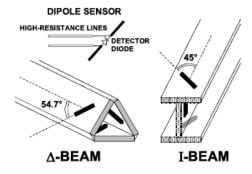
Dosimetry in strong gradient fields Compliance tests of mobile phones

Compatibility COMOSAR

Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:



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5. Tissue check and recommend Dielectric Parameters

5.1 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness Power drifts in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Table 1: Recommended Dielectric Performance of Tissue

Ingredients						Frequen	cy (MHz)					
(% by weight)	45	50	83	35	91	5	19	900	24	50	26	000
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.46	52.4	41.05	56.0	54.9	40.4	62.7	73.2	55.24	64.49
Salt (Nacl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	0.5	0.024
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	0.0	0.0
Triton x-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	44.45	32.25
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.2	52.5	39.0	52.5
Conductivity (s/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.80	1.78	1.96	2.16

MSL/HSL750 (Body and Head liquid for 650 – 850 MHz)

Item	Head Tissue Simulation Liquid HSL750							
	Muscle(body)Tissu	Muscle(body)Tissue Simulation Liquid MSL750						
H2O	Water, 35 - 58%							
Sucrese	Sugar, white, refine	Sugar, white, refined, 40-60%						
NaCl	Sodium Chloride, 0-6%							
Hydroxyethel-cellulsoe	Medium Viscosity (CAS# 9004-62-0), <0.3%							
Preventol-D7	Preservative: aque	ous preparation, (C	AS# 55965-84-9), co	ontaining				
	5-chloro-2-methyl-	3(2H)-isothiazolone	and 2-methyyl-3(2H	l)-isothiazolone,				
	0.1-0.7%							
Frequency (MHz)	Head εr Head σ(S/m) Body εr Bodyσ(S/m)							
750	41.9 0.89 55.2 0.97							

Note: The liquid of 700MHz&2600MHz typical liquid composition is provided by SATIMO.

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Frequency:5200/5400/5600/5800MHz					
Ingredients (% by weight)					
Water	78				
Mineral oil	11				
Emulsifiers	9				
Additives and Salt	2				

Table 2 Recommended Tissue Dielectric Parameters

Francisco (AALIE)	Head	Tissue	Body Tissue	
Frequency (MHz)	E _r	σ(S/m)	ε _r	σ(S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

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5.2 Simulate liquid

Liquid check results:

Table 3: Dielectric Performance of Head Tissue Simulating Liquid

Temperature: 23.2°C; Humidity: 64%;								
/	Frequency Permittivity ε Conductivity σ (S							
Target value	750MHz	41.9±5%	0.89±5%					
Validation value (2019-03-15)	750MHz	41.95	0.92					
Target value	850MHz	41.5±5%	0.90±5%					
Validation value (2019-03-16)	850MHz	41.32	0.87					
Target value	1800MHz	40.5±5%	1.40±5%					
Validation value (2019-03-17)	1800MHz	40.34	1.31					
Target value	1900MHz	40.5±5%	1.40±5%					
Validation value (2019-03-18)	1900MHz	40.6	1.39					
Target value	2450MHz	39.2±5%	1.80±5%					
Validation value (2019-03-19)	2450MHz	39.26	1.81					
Target value	2600MHz	39.0±5%	1.96±5%					
Validation value (2019-03-19)	2600MHz	39.11	1.97					
Target value	750MHz	41.9±5%	$0.89 \!\pm\! 5\%$					
Validation value (2019-03-21)	750MHz	41.86	0.93					
Target value	850MHz	41.5±5%	0.90±5%					
Validation value (2019-03-22)	850MHz	41.61	0.94					
Target value	1800MHz	40.5±5%	1.40±5%					
Validation value (2019-03-23)	1800MHz	40.58	1.43					
Target value	1900MHz	40.5±5%	1.40±5%					
Validation value (2019-03-24)	1900MHz	40.58	1.42					
Target value	5200MHz	36.0±5%	4.66±5%					
Validation value (2019-03-25)	5200MHz	36.12	4.62					
Target value	5400MHz	35.8±5%	4.86±5%					
Validation value (2019-03-25)	5400MHz	35.71	4.81					
Target value	5600MHz	35.5±5%	5.07±5%					
Validation value (2019-03-26)	5600MHz	35.36	5.02					
Target value	5800MHz	35.3±5%	5.27±5%					
Validation value (2019-03-26)	5800MHz	35.23	5.19					

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Dielectric Performance of Body Tissue Simulating Liquid

Temperature: 23.2°C; Humidity: 64%;						
/	Frequency	Permittivity ε	Conductivity σ (S/m)			
Target value	750MHz	55.5±5%	0.96±5%			
Validation value (2019-03-15)	750MHz	55.53	0.95			
Target value	850MHz	55.2±5%	0.97±5%			
Validation value (2019-03-16)	850MHz	55.23	0.98			
Target value	1800MHz	53.3±5%	1.52±5%			
Validation value (2019-03-17)	1800MHz	53.39	1.52			
Target value	1900MHz	53.3±5%	1.52±5%			
Validation value (2019-03-18)	1900MHz	53.42	1.51			
Target value	2450MHz	52.7±5%	1.95±5%			
Validation value (2019-03-19)	2450MHz	52.61	1.93			
Target value	2600MHz	52.5±5%	2.16±5%			
Validation value (2019-03-19)	2600MHz	52.28	2.11			
Target value	750MHz	55.5±5%	0.96±5%			
Validation value (2019-03-21)	750MHz	52.71	0.99			
Target value	850MHz	55.2±5%	0.97±5%			
Validation value (2019-03-22)	850MHz	55.33	0.98			
Target value	1800MHz	53.3±5%	1.52±5%			
Validation value (2019-03-23)	1800MHz	53.31	1.52			
Target value	1900MHz	53.3±5%	1.52±5%			
Validation value (2019-03-24)	1900MHz	53.48	1.53			
Target value	5200MHz	49.0±5%	5.30±5%			
Validation value (2019-03-25)	5200MHz	49.12	5.31			
Target value	5400MHz	48.7±5%	5.53±5%			
Validation value (2019-03-25)	5400MHz	49.11	5.58			
Target value	5600MHz	48.5±5%	5.77±5%			
Validation value (2019-03-26)	5600MHz	48.91	5.88			
Target value	5800MHz	48.2±5%	6.00±5%			
Validation value (2019-03-26)	5800MHz	48.27	6.01			

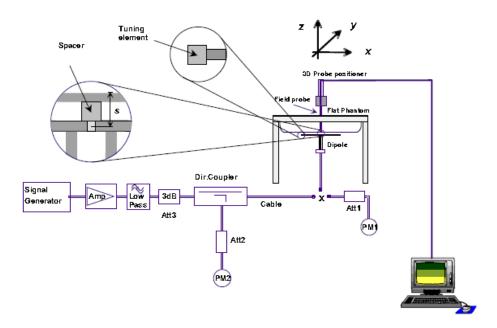
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SAR System validation

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of ±10%. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The following procedure, recommended for performing validation tests using box phantoms is based on the procedures described in the IEEE standard P1528. Setup according to the setup diagram below:



With the SG and Amp and with directional coupler in place, set up the source signal at the relevant frequency and use a power meter to measure the power at the end of the SMA cable that you intend to connect to the balanced dipole. Adjust the SG to make this, say, 0.01W (10 dBm). If this level is too high to read directly with the power meter sensor, insert a calibrated attenuator (e.g. 10 or 20 dB) and make a suitable correction to the power meter reading.

- Note 1: In this method, the directional coupler is used for monitoring rather than setting the exact feed power level. If, however, the directional coupler is used for power measurement, you should check the frequency range and power rating of the coupler and measure the coupling factor (referred to output) at the test frequency using a VNA.
- Note 2: Remember that the use of a 3dB attenuator (as shown in Figure 8.1 of P1528) means that you need an RF amplifier of 2 times greater power for the same feed power. The other issue is the cable length. You might get up to 1dB of loss per meter of cable, so the cable length after the coupler needs to be guite short.
- Note 3: For the validation testing done using CW signals, most power meters are suitable. However, if you are measuring the output of a modulated signal from either a signal generator or a handset, you must ensure that the power meter correctly reads the modulated signals.

The measured 1-gram averaged SAR values of the device against the phantom are provided in Tables 5 and Table 6. The humidity and ambient temperature of test facility

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were 64% and 23.2°C respectively. The body phantom were full of the body tissue simulating liquid. The EUT was supplied with full-charged battery for each measurement.

The distance between the back of the EUT and the bottom of the flat phantom is 10 mm (taking into account of the IEEE 1528 and the place of the antenna).

Table 4: Head SAR system validation (1g)

_	D	Target value	Test valu	ue (W/kg)
Frequency	Duty cycle	(W/kg)	10 mW	1W
750MHz(2019-03-15)	1:1	8.62±10%	0.0878	8.78
835MHz(2019-03-16)	1:1	9.61±10%	0.0962	9.62
1800MHz(2019-03-17)	1:1	37.35±10%	0.3719	37.19
1900MHz(2019-03-18)	1:1	39.35±10%	0.3942	39.42
2450MHz(2019-03-19)	1:1	52.67±10%	0.5234	52.34
2600MHz(2019-03-19)	1:1	55.47±10%	0.5527	55.27
750MHz(2019-03-21)	1:1	8.62±10%	0.0857	8.57
835MHz(2019-03-22)	1:1	9.61±10%	0.0987	9.87
1800MHz(2019-03-23)	1:1	37.35±10%	0.3741	37.41
1900MHz(2019-03-24)	1:1	39.35±10%	0.3967	39.67
5200MHz(2019-03-25)	1:1	164.10±10%	1.5935	159.35
5400MHz(2019-03-25)	1:1	171.25±10%	1.6471	164.71
5600MHz(2019-03-26)	1:1	178.98±10%	1.7787	177.87
5800MHz(2019-03-26)	1:1	185.54±10%	1.8097	180.97

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Table 5: Body SAR system validation (1g)

Frequency	Duty cycle	Target value (W/kg)	<u> </u>	ue (W/kg) 1W
750MHz(2019-03-15)	1:1	8.68±10%	0.0854	8.54
835MHz(2019-03-16)	1:1	9.88±10%	0.0954	9.54
1800MHz(2019-03-17)	1:1	37.68±10%	0.3776	37.76
1900MHz(2019-03-18)	1:1	38.84±10%	0.3869	38.69
2450MHz(2019-03-19)	1:1	51.42±10%	0.5137	51.37
2600MHz(2019-03-19)	1:1	53.45±10%	0.5346	53.46
750MHz(2019-03-21)	1:1	8.68±10%	0.0866	8.66
835MHz(2019-03-22)	1:1	9.88±10%	0.0975	9.75
1800MHz(2019-03-23)	1:1	37.68±10%	0.3776	37.76
1900MHz(2019-03-24)	1:1	38.84±10%	0.3828	38.28
5200MHz(2019-03-25)	1:1	155.78±10%	1.5379	153.79
5400MHz(2019-03-25)	1:1	160.24±10%	1.5663	156.63
5600MHz(2019-03-26)	1:1	167.61±10%	1.7370	173.70
5800MHz(2019-03-26)	1:1	170.49±10%	1.7104	171.04

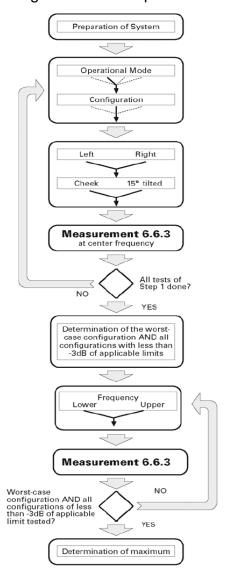
^{*} Note: Target value was referring to the measured value in the calibration certificate of reference dipole. Note: All SAR values are normalized to 1W forward power.

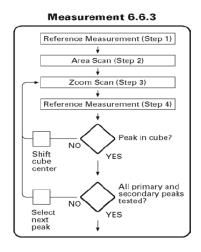
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6. SAR measurement procedure

The SAR test against the head phantom was carried out as follow:





Establish a call with the maximum output power with a base station simulator, the connection between the EUT and the base station simulator is established via air interface.

After an area scan has been done at a fixed distance of 2mm from the surface of the phantom on the source side, a 3D scan is set up around the location of the maximum spot SAR. First, a point within the scan area is visited by the probe and a SAR reading taken at the start of testing. At the end of testing, the probe is returned to the same point and a second reading is taken. Comparison between these start and end readings enables the power drift during measurement to be assessed.

Above is the scanning procedure flow chart and table from the IEEEp1528 standard. This is the procedure for which all compliant testing should be carried out to ensure that all variations of the device position and transmission behavior are tested.

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7. Conducted RF Output Power

7.1 Upper Antenna

GSM Conducted Power

		Burst-A	veraged outp	out Power	Division		-Average	•
GSM850		(dBm)				P	ower (dBr	n)
		128CH	190CH	251CH	Factors	28CH	190CH	251CH
GSN	M (CS)	29.25	29.22	29.18	-9.19	20.06	20.03	19.99
	1 Tx Slot	29.10	29.25	29.17	-9.19	19.91	20.06	19.98
GPRS	2 Tx Slots	27.98	28.00	27.97	-6.13	21.85	21.87	21.84
(GMSK)	3 Tx Slots	26.11	26.27	26.19	-4.42	21.69	21.85	21.77
	4 Tx Slots	24.96	25.06	25.01	-3.18	21.78	21.88	21.83
	1 Tx Slot	26.85	26.51	25.94	-9.19	17.66	17.32	16.75
EDGE	2 Tx Slots	24.04	24.07	23.87	-6.13	17.91	17.94	17.74
(8PSK)	3 Tx Slots	22.56	22.50	22.61	-4.42	18.14	18.08	18.19
	4 Tx Slots	21.82	21.93	21.87	-3.18	18.64	18.75	18.69
		Burst-A	veraged outp	out Power	Division	Frame	-Average	d output
GSI	M1900		(dBm)			Power (dBm)		
		512CH	661CH	810CH	Factors	512CH	661CH	810CH
GSN	M (CS)	26.85	26.74	26.53	-9.19	17.66	17.55	17.34
	1 Tx Slot	26.54	26.41	26.03	-9.19	17.35	17.22	17.84
GPRS	2 Tx Slots	25.83	25.85	25.74	-6.13	19.70	19.72	19.61
(GMSK)	3 Tx Slots	24.47	24.40	24.50	-4.42	20.05	19.98	20.08
	4 Tx Slots	23.37	23.24	24.31	-3.18	20.19	20.06	21.13
	1 Tx Slot	25.61	24.99	24.53	-9.19	16.42	15.80	15.34
EDGE	2 Tx Slots	22.84	22.86	22.69	-6.13	16.71	16.73	16.56
(8PSK)	3 Tx Slots	21.36	21.25	21.36	-4.42	16.94	16.83	16.94
	4 Tx Slots	20.50	20.56	20.55	-3.18	17.32	17.38	17.37

Note: Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

For hotspot SAR, EUT was performed at GPRS Class 12 multi-slots(4Tx) mode
For Head and Body-worn SAR testing, EUT was set in GSM Voice mode for both GSM850 and GSM1900

Timeslot consignations

No. Of Slots	Slot 1	Slot 2	Slot 3	Slot 4
Slot Consignation	1Up4Down	2UpDown	3UpDown	4Up1Down
Duty Cycle	1:8	1:4	1:2.67	1:2
Crest Factor	-9.03dB	-6.02dB	-4.26dB	-3.01dB

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CDMA Conducted output Power

Conducted Power (Unit:dBm)								
Band	CDMA BC0							
Channel	1013	384	777					
Frequency(MHz)	824.7	836.52	848.31					
RC1 + SO55	23.81	23.85	23.82					
RC3 + SO55	23.77	23.83	23.80					
RC3 + SO32(+ F-SCH)	23.80	23.82	23.78					
RC3 + SO32(+SCH)	23.80	23.81	23.77					
1xEVDO Rev A RETAP	22.54	22.56	22.52					
Band		CDMA BC1						
Channel	25	600	1175					
Frequency(MHz)	1851.25	1880.00	1908.75					
RC1 + SO55	22.87	22.88	22.83					
RC3 + SO55	22.83	22.85	22.79					
RC3 + SO32(+ F-SCH)	22.73	22.77	22.71					
RC3 + SO32(+SCH)	22.45	22.47	22.46					
1xEVDO Rev A RETAP	21.63	21.68	21.62					

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WCDMA Conducted output Power

	band	W	WCDMA 850			WCDMA 1900			WCDMA1700		
Item	Frequency	4132	4183	4233	9262	9400	9538	1313	1413	1513	
	Subtest		dBm			dBm			dBm		
WCDMA	RMC 12.2Kbps	19.65	19.53	19.63	18.65	18.26	18.55	19.67	19.55	19.77	
	1	19.26	19.54	19.36	18.24	17.85	18.14	19.24	18.82	19.22	
HSDPA	2	19.12	19.25	19.17	17.85	17.46	17.75	18.85	18.43	18.83	
IISDIA	3	19.16	19.24	19.16	17.64	17.25	17.54	18.64	18.22	18.62	
	4	19.18	19.21	19.17	17.42	18.22	17.48	18.38	18.14	18.17	
	1	19.13	19.39	19.10	18.74	18.54	18.42	19.44	19.18	19.45	
	2	19.04	19.19	19.14	18.35	18.15	18.03	19.25	19.17	19.36	
HSUPA	3	19.06	19.22	19.16	18.07	17.87	17.75	19.14	19.18	19.12	
	4	19.07	19.13	19.13	17.88	17.68	17.56	18.94	18.83	18.70	
	5	19.07	19.05	19.12	17.65	17.26	17.55	18.27	18.35	18.32	

Note:

- WCDMA SAR was tested under PMC 12.2kbps with HSPA Inactive per KDB Publication 941225
 D01v03r01.HSPA SAR was not requires since the average output power of the HSPA subtests was not more than 0.25dB higher than the RMC level and SAR was less than 1.2W/kg.
- 2. It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2dB more than specified by 3GPP, but also as low as 0dB according to the chipset implementation in this model

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LTE Conducted peak output Power

LTE Test Configurations

The CMW500 Wide Band Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all frames.

1) Spectrum Plots for RB configurations

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

2) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

The allowed Maximum Power Reduction(MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101:

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel	Channel bandwidth / Transmission bandwidth configuration [RB]							
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 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		

3)A-MPR LTE procedures for SAR testing

A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signaling Value of "NS_01" on the base station simulator.

4)LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test

requirements i) 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 ≤ 0.8W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1RB 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.

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1. LTE Band 2 Conducted Power Test Verdict:

L	TE FDD B	and 2		Conducted Power(dBm)			
Dan duvi dilib	Madulation	RB	RB	Ch	annel/Frequer	ncy	
Bandwidth	Modulation	size	offset	18607/1850.7	18900/1880	19193/1909.3	
		1	0	17.56	17.61	17.42	
		1	3	17.43	17.51	17.3	
		1	5	17.45	17.5	17.29	
	QPSK	3	0	16.73	16.79	16.57	
		3	2	16.74	16.78	16.54	
		3	3	16.75	16.8	16.55	
4 48411-		6	0	16.61	16.67	16.44	
1.4MHz		1	0	16.43	16.46	16.31	
		1	3	16.28	16.35	16.18	
		1	5	16.41	16.43	16.3	
	16QAM	3	0	15.5	15.54	15.49	
		3	2	15.58	15.64	15.52	
		3	3	15.6	15.65	15.46	
		6	0	15.48	15.55	15.31	
Bandwidth	Modulation	RB	RB	Ch	annel/Frequer	ncy	
Ballawiatii	Modulation	size	offset	18615/1851.5	18900/1880	19185/1908.5	
		1	0	17.78	17.95	17.85	
		1	7	17.65	17.85	17.73	
		1	14	17.67	17.84	17.72	
	QPSK	8	0	16.95	17.13	17	
		8	4	16.96	17.12	16.97	
		8	7	16.97	17.14	16.98	
3MH>		15	0	16.83	17.01	16.87	
3MHz		1	0	16.65	16.8	16.74	
		1	7	16.5	16.69	16.61	
		1	14	16.63	16.77	16.73	
	16QAM	8	0	15.72	15.88	15.92	
		8	4	15.8	15.98	15.95	
		8	7	15.82	15.99	15.89	
		15	0	15.7	15.89	15.74	

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L	TE FDD B	and 2		Conducted Power(dBm)			
Donalusi altia	Madulatian	RB	RB	Ch	annel/Frequer	ncy	
Bandwidth	Modulation	size	offset	18625/1852.5	18900/1880	19175/1907.5	
		1	0	17.89	18.01	17.79	
		1	13	17.76	17.91	17.67	
		1	24	17.78	17.9	17.66	
	QPSK	12	0	17.06	17.19	16.94	
		12	6	17.07	17.18	16.91	
		12	13	17.08	17.2	16.92	
5M11-		25	0	16.94	17.07	16.81	
5MHz		1	0	16.76	16.86	16.68	
		1	13	16.61	16.75	16.55	
		1	24	16.74	16.83	16.67	
	16QAM	12	0	15.83	15.94	15.86	
		12	6	15.91	16.04	15.89	
		12	13	15.93	16.05	15.83	
		25	0	15.81	15.95	15.68	
Bandwidth	Modulation	RB	RB	Ch	annel/Frequer	ncy	
Balluwiutii	Modulation	size	offset	18650/1855	18900/1880	19150/1905	
		1	0	18.23	18.05	18.11	
		1	25	18.1	17.95	17.99	
		1	49	18.12	17.94	17.98	
	QPSK	25	0	17.4	17.23	17.26	
		25	13	17.41	17.22	17.23	
		25	25	17.42	17.24	17.24	
10MU-		50	0	17.28	17.11	17.13	
10MHz		1	0	17.1	16.9	17	
		1	25	16.95	16.79	16.87	
		1	49	17.08	16.87	16.99	
	16QAM	25	0	16.17	15.98	16.18	
		25	13	16.25	16.08	16.21	
		25	25	16.27	16.09	16.15	
		50	0	16.15	15.99	16	

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L	TE FDD B	and 2		Conducted Power(dBm)			
Donalis i altia	Madulation	RB	RB	Ch	nannel/Frequer	псу	
Bandwidth	Modulation	size	offset	18675/1857.5	18900/1880	19125/1902.5	
		1	0	17.35	17.26	17.15	
		1	38	17.22	17.16	17.03	
		1	74	17.24	17.15	17.02	
	QPSK	36	0	16.52	16.44	16.3	
		36	18	16.53	16.43	16.27	
		36	39	16.54	16.45	16.28	
4 E M I I -		75	0	16.4	16.32	16.17	
15MHz		1	0	16.22	16.11	16.04	
		1	38	16.07	16	15.91	
		1	74	16.2	16.08	16.03	
	16QAM	36	0	15.29	15.19	15.22	
		36	18	15.37	15.29	15.25	
		36	39	15.39	15.3	15.19	
		75	0	15.27	15.2	15.04	
Bandwidth	Modulation	RB	RB	Ch	nannel/Frequer	ncy	
Danuwidin	Modulation	size	offset	18700/1860	18900/1880	19100/1900	
		1	0	18.42	18.50	18.25	
		1	50	18.23	18.35	18.15	
		1	99	18.25	18.34	18.14	
	QPSK	50	0	17.73	17.68	17.72	
		50	25	17.64	17.56	17.66	
		50	50	17.59	17.78	17.51	
20MHz		100	0	17.41	17.66	17.38	
ZUIVITIZ		1	0	17.23	17.3	17.16	
		1	50	17.08	17.19	17.03	
		1	99	17.21	17.27	17.15	
	16QAM	50	0	16.3	16.38	16.34	
		50	25	16.38	16.48	16.37	
		50	50	16.4	16.49	16.31	
		100	0	16.28	16.39	16.16	

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2. LTE Band 4 Conducted Power Test Verdict:

L	TE FDD B	and 4		Conducted Power(dBm)			
Dandwidth	Modulation	RB	RB	С	Channel/Frequency		
Bandwidth	Modulation	size	offset	19957/1710.7	20175/1732.5	20393/1754.3	
		1	0	17.02	17.25	17.16	
		1	3	16.89	17.15	17.04	
		1	5	16.91	17.14	20393/1754.3 17.16 17.04 17.03 16.31 16.28 16.29 16.18 16.05 15.92 16.04 15.23 15.26 15.2 15.05 20385/1753.5 17.36 17.24 17.23 16.51 16.48 16.49 16.38 16.25 16.12 16.24	
	QPSK	3	0	16.19	16.43	16.31	
		3	2	16.2	16.42	16.28	
		3	3	16.21	16.44	16.29	
1.4MHz		6	0	16.07	16.31	16.18	
1.4111712		1	0	15.89	16.1	16.05	
		1	3	15.74	15.99	16.05 15.92 16.04 15.23 15.26 15.2 15.05	
		1	5	15.87	16.07	16.04	
	16QAM	3	0	14.96	15.18	16.04 15.23 15.26 15.2 15.05	
		3	2	15.04	15.28		
		3	3	15.06	15.29		
		6	0	14.94	15.19	15.05	
Bandwidth	Modulation	RB	RB	Channel/Frequency			
Balluwidili	Modulation	size	offset	19965/1711.5	20175/1732.5	20385/1753.5	
		1	0	17.12	17.43	17.36	
		1	7	16.99	17.33	17.24	
		1	14	17.01	17.32	17.23	
	QPSK	8	0	16.29	16.61	16.51	
		8	4	16.3	16.6	16.48	
		8	7	16.31	16.62	16.49	
2M⊔-		15	0	16.17	16.49	16.38	
3MHz		1	0	15.99	16.28	16.25	
		1	7	15.84	16.17	16.12	
		1	14	15.97	16.25	16.24	
	16QAM	8	0	15.06	15.36	15.43	
		8	4	15.14	15.46	15.46	
		8	7	15.16	15.47	15.4	
		15	0	15.04	15.37	15.25	

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L	TE FDD B	and 4		Conducted Power(dBm)			
Donalusi alth	Modulation	RB	RB	Channel/Frequency			
Bandwidth	Modulation	size	offset	19975/1712.5	20175/1732.5	20375/1752.5	
		1	0	17.55	17.34	17.46	
		1	13	17.42	17.24	17.34	
		1	24	17.44	17.23	17.33	
	QPSK	12	0	16.72	16.52	16.61	
		12	6	16.73	16.51	20375/1752.5 17.46 17.34 17.33 16.61 16.58 16.59 16.48 16.35 16.22 16.34 15.53 15.56 15.5 15.55	
		12	13	16.74	16.53	16.59	
5MHz		25	0	16.6	16.4	16.48	
SIVITZ		1	0	16.42	16.19	16.35	
		1	13	16.27	16.08	6.08 16.22 6.16 16.34	
		1	24	16.4	16.16	16.34	
	16QAM	12	0	15.49	15.27	15.53	
		12	6	15.57	15.37	15.56	
		12	13	15.59	15.38	15.56 15.5 15.35	
		25	0	15.47	15.28	15.35	
Bandwidth	Modulation	RB	RB	Channel/Frequency			
Ballawiatii	Modulation	size	offset	20000/1715	20175/1732.5	20375/1752.5 17.46 17.34 17.33 16.61 16.58 16.59 16.48 16.35 16.22 16.34 15.53 15.56 15.5 15.35 cy 20350/1750 17.85 17.73 17.72 17	
		1	0	17.89	17.72	17.85	
		1	25	17.76	17.62	17.73	
		1	49	17.78	17.61	32.5 20375/1752.5 17.46 17.34 17.33 16.61 16.58 16.59 16.48 16.35 16.22 16.34 15.53 15.56 15.5 15.5 17.73 17.72 17 16.97 16.98 16.87 16.61 16.73 15.92 15.89	
	QPSK	25	0	17.06	16.9	17	
		25	13	17.07	16.89	16.97	
		25	25	17.08	16.91	16.98	
10MHz		50	0	16.94	16.78	16.87	
10MHz		1	0	16.76	16.57	16.74	
		1	25	16.61	16.46	16.61	
		1	49	16.74	16.54	16.73	
	16QAM	25	0	15.83	15.65	15.92	
		25	13	15.91	15.75	15.95	
		25	25	15.93	15.76	20375/1752.5 17.46 17.34 17.33 16.61 16.58 16.59 16.48 16.35 16.22 16.34 15.53 15.56 15.5 15.35 cy 20350/1750 17.85 17.73 17.72 17 16.97 16.98 16.87 16.61 16.73 15.92 15.95 15.89	
		50	0	15.81	15.66	15.74	

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L	TE FDD B	and 4		Conducted Power(dBm)			
Dan day dala	Madulatian	RB	RB	С	Channel/Frequency		
Bandwidth	Modulation	size	offset	20025/1717.5	20175/1732.5	20325/1747.5	
		1	0	17.78	17.85	17.65	
		1	38	17.65	17.75	17.53	
		1	74	17.67	17.74	17.52	
	QPSK	36	0	16.95	17.03	16.8	
		36	18	16.96	17.02	2 16.77	
		36	39	16.97	17.04	16.78	
4 E M I I -		75	0	16.83	16.91	16.67	
15MHz		1	0	16.65	16.7	16.54	
		1	38	16.5	16.59	16.41	
		1	74	16.63	16.67	16.53	
	16QAM	36	0	15.72	15.78	15.72	
		36	18	15.8	15.88	15.75	
		36	39	15.82	15.89	89 15.69	
		75	0	15.7	15.79	15.54	
Bandwidth	Modulation	RB	RB	С	Channel/Frequency		
Balluwiutii	Modulation	size	offset	20050/1720	20175/1732.5	20300/1745	
		1	0	18.15	18.27	18.10	
		1	50	18.13	18.68	18.44	
		1	99	18.15	18.67	18.43	
	QPSK	50	0	17.21	17.16	17.26	
		50	25	17.27	17.24	17.31	
		50	50	17.33	17.28	17.34	
20MHz		100	0	17.04	17.1	17.12	
20141112		1	0	17.13	17.63	17.45	
		1	50	16.98	17.52	17.32	
		1	99	17.11	17.6	17.44	
	16QAM	50	0	16.2	16.71	16.63	
		50	25	16.28	16.81	16.66	
		50	50	16.3	16.82	16.6	
		100	0	16.18	16.72	16.45	

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3. LTE Band 5 Conducted Power Test Verdict:

L	TE FDD B	and 5	Condu	cted Powe	r(dBm)		
Dandwidth	Modulation	RB	RB	Ch	nannel/Frequer	су	
Bandwidth	Modulation	size	offset	20407/824.7	20525/836.5	20643/848.3	
		1	0	17.56	17.81	17.65	
		1	3	17.43	17.7	17.54	
		1	5	17.41	17.66	17.51	
	QPSK	3	0	16.75	16.95	16.79	
		3	2	16.71	16.98	16.83	
		3	3	+	16.97	16.78	
1.4MHz		6	0	16.57	16.78	16.68	
1.4111112		1	0	16.43	16.69	16.5	
		1	3	16.32	16.54	16.39	
		1	5	16.41	16.65	16.48	
	16QAM	3	0	15.52	15.77	15.67	
		3	2	15.55	15.86	15.73	
		3	3	15.61	15.88	15.64	
		6	0	15.47	15.7	15.43	
Bandwidth	Modulation	RB	RB	Ch	Channel/Frequency		
Bandwidth	Modulation	size	offset	20415/825.5	20525/836.5	20635/847.5	
		1	0	17.76	17.96	18.01	
		1	7	17.61	17.82	17.87	
		1	14	17.65	17.83	17.86	
	QPSK	8	0	16.94	17.11	17.18	
		8	4	16.95	17.14	17.2	
		8	7	16.96	17.12	17.13	
3MHz		15	0	16.78	16.99	17.02	
31411 12		1	0	16.64	16.83	16.84	
		1	7	16.49	16.68	17.65 17.54 17.51 16.79 16.83 16.78 16.68 16.5 16.39 16.48 15.67 15.73 15.64 15.43 ncy 20635/847.5 18.01 17.87 17.86 17.18 17.2 17.13 17.02	
		1	14	16.61	16.77	16.81	
	16QAM	8	0	15.72	15.89	20635/847.5 18.01 17.87 17.86 17.18 17.2 17.13 17.02 16.84 16.69 16.81 16.03 16.12 16.01	
		8	4	15.78	16.01	16.12	
		8	7	15.83	15.99	16.01	
		15	0	15.68	15.83	15.77	

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L	LTE FDD Band 5				cted Powe	r(dBm)
Donalusialth	Madulation RB RB		RB	Channel/Frequency		
Bandwidth	Modulation	size	offset	20425/826.5	20525/836.5	20625/846.5
		1	0	18.23	18.17	18.02
		1	13	18.08	18.02	17.91
		1	24	18.1	18.05	17.87
	QPSK	12	0	17.41	17.34	17.21
		12	6	17.42	17.33	17.18
		12	13	17.4	17.3	17.17
5MHz		25	0	17.26	17.18	17.23
SIVIEZ		1	0	17.09	17.05	16.86
		1	13	16.96	16.91	16.72
		1	24	17.04	17.03	16.79
	16QAM	12	0	16.15	16.13	16.01
		12	6	16.28	16.19	16.14
		12	13	16.27	16.22	20625/846.5 18.02 17.91 17.87 17.21 17.18 17.17 17.23 16.86 16.72 16.79 16.01 16.14 16 15.76
		25	0	16.12	16.11	15.76
Bandwidth	Modulation	RB	RB	Channel/Frequency		су
Ballawiatii	Modulation	size	offset	20450/829	20525/836.5	20600/844
		1	0	18.65	18.78	18.55
		1	25	18.39	18.6	18.28
		1	49	18.41	18.6	18.32
	QPSK	25	0	17.46	17.53	17.55
		25	13	17.18	17.32	17.25
		25	25	17.03	17.13	16.91
10MHz		50	0	17.39	17.27	17.35
I OIVII IZ		1	0	17.44	17.57	17.28
		1	25	17.33	17.46	17.17
		1	49	17.39	17.49	17.25
	16QAM	25	0	16.53	16.63	16.44
		25	13	16.58	16.68	16.52
		25	25	16.59	16.71	16.4
		50	0	16.46	16.54	16.18

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4. LTE Band 7 Conducted Power Test Verdict:

L	TE FDD B	and 7		Conducted Power(dBm)		
Dondwidth	Modulation	RB	RB	Ch	Channel/Freque	
Bandwidth	Modulation	size	offset	20775/2502.5	21100/2535	21425/2567.5
		1	0	18.02	17.56	17.69
		1	13	17.91	17.41	17.54
		1	24	17.89	17.43	17.58
	QPSK	12	0	17.14	16.71	16.86
		12	6	17.17	16.75 16.83 16.73 16.84	
		12	13	17.19	16.73	16.84
5MHz		25	0	17.03	16.53	16.75
SIVIFIZ		1	0	16.91	16.44	16.53
		1	13	16.79	16.31	16.31 16.42
		1	24	16.86	16.39	16.52
	16QAM	12	0	16	15.46	15.68
		12	6	16.03	15.6	15.77 15.7
		12	13	16.05	15.55	15.7
		25	0	15.94	15.4	15.58
Bandwidth	Modulation	RB	RB	Channel/Frequency		
Bandwidth	Modulation	size	offset	20800/2505	21100/2535	21400/2565
		1	0	18.1	17.76	18.01
		1	25	17.99	17.61	17.86
		1	49	17.97	17.63	17.9
	QPSK	25	0	17.22	16.91	17.18
		25	13	17.25	16.95	17.15
		25	25	17.27	16.93	17.16
10MHz		50	0	17.11	16.73	17.07
1011112		1	0	16.99	16.64	16.85
		1	25	16.87	16.51	17.54 17.58 16.86 16.83 16.84 16.75 16.53 16.42 16.52 15.68 15.77 15.7 15.58 1000 21400/2565 18.01 17.86 17.9 17.18 17.15 17.16 17.07
		1	49	16.94	16.59	16.84
	16QAM	25	0	16.08	15.66	16
		25	13	16.11	15.8	16.83 16.84 16.75 16.53 16.42 16.52 15.68 15.77 15.7 15.58 10:y 21400/2565 18.01 17.86 17.9 17.18 17.15 17.16 17.07 16.85 16.74 16.84 16 16.09 16.02
		25	25	16.13	15.75	16.02
		50	0	16.02	15.6	15.9

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L	LTE FDD Band 7				Conducted Power(dBm)		
Donalisi dila	Madulatian	RB	RB	Ch	annel/Frequer	ncy	
Bandwidth	Modulation	size	offset	20825/2507.5	21100/2535	21375/2562.5	
		1	0	18.23	18.02	18.17	
		1	38	18.12	17.87	18.02	
		1	74	18.1	17.89	18.06	
	QPSK	36	0	17.35	17.17	17.34	
		36	18	17.38	17.21	17.31	
		36	39	B Channel/Frequency 20825/2507.5 21100/2535 21375/2562.5 1 18.23 18.02 18.17 8 18.12 17.87 18.02 4 18.1 17.89 18.06 0 17.35 17.17 17.34 8 17.38 17.21 17.31 9 17.4 17.19 17.32 0 17.12 16.9 17.01 8 17 16.77 16.9 17.07 16.85 17 0 16.21 15.92 16.16 8 16.24 16.06 16.25 9 16.26 16.01 16.18 0 16.15 15.86 16.06 B Channel/Frequency 20850/2510 21100/2535 21350/2560 0 18.62 18.57 18.43 0 18.51 18.42 18.28 9 18.49 18.44 18.32 0 17.65 17.45 17.6 17.69 17.74 17.58 0 17.63 17.88 17.49 0 17.51 17.45 17.27 0 17.69 17.74 17.58			
45841-		75	0	17.24	16.99	17.23	
15MHz		1	0	17.12	16.9	17.01	
		1	38	17	16.77	16.9	
		1	74	17.07	16.85	17	
	16QAM	36	0	16.21	15.92	17.32 17.23 17.01 16.9 17 16.16 16.25 16.18 16.06 ency 5 21350/2560 18.43 18.28 18.32	
		36	18	16.24	16.06	16.25	
		36	39	16.26	16.01	16.18	
		75	0	16.15	15.86	16.06	
Bandwidth	Modulation	RB	RB	Channel/Frequ		ency	
Balluwiutii	Wodulation	size	offset	20850/2510	21100/2535	21350/2560	
		1	0	18.62	18.57	18.43	
		1	50	18.51	18.42	18.28	
		1	99	18.49	18.44	18.32	
	QPSK	50	0	17.65	17.45	17.6	
		50	25	17.77	17.96	17.72	
		50	50	17.69	17.74	17.58	
20MH-		100	0	17.63	17.88	17.49	
20MHz		1	0	17.51	17.45	17.27	
		1	50	17.39	17.32	17.16	
		1	99	17.46	17.4	17.26	
	16QAM	50	0	16.6	16.47	16.42	
		50	25	16.63	16.61	16.51	
		50	50	16.65	16.56	16.44	
		100	0	16.54	16.41	16.32	

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5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				Conducted Power(dBm)		
Danaduri déla	Madulation	RB	RB	Cł	nannel/Frequer	псу
Bandwidth	Modulation	size	offset	23017/699.7	23095/707.5	23173/715.3
		1	0	17.35	17.52	17.66
		1	3	17.23	17.4	17.54
		1	5	17.24	17.41	17.53
	QPSK	3	0	16.5	16.7	.41 17.53 6.7 16.84 .67 16.82 .71 16.83 .57 16.69 .37 16.54 .26 16.41 .34 16.49 .42 15.7 .55 15.81 .52 15.73 .39 15.51
		3	2	16.53	16.67	16.82
		3	3	16.47	16.71	16.83
1.4MHz		6	0	16.37	16.57	16.69
1.4111112		1	0	16.22	16.37	16.54
		1	3	16.11	16.26	16.41
		1	5	16.2	16.34	16.49
	16QAM	3	0	15.27	15.42	15.7
		3	2	15.39	15.55	15.81
		3	3	15.38	15.52	15.7 15.81 15.73 15.51
		6	0	15.2	15.39	15.51
Bandwidth	Modulation	RB	RB	Channel/Frequency		
Banawiatii	Modulation	size	offset	23025/700.5	23095/707.5	23165/714.5
		1	0	17.45	17.64	17.75
		1	7	17.33	17.52	17.63
		1	14	17.34	17.53	17.62
	QPSK	8	0	16.6	16.82	16.93
		8	4	16.63	16.79	16.91
		8	7	16.57	16.83	16.92
3MHz		15	0	16.47	16.69	16.78
OIIII IZ		1	0	16.32	16.49	16.63
		1	7	16.21	16.38	16.5
		1	14	16.3	16.46	16.58
	16QAM	8	0	15.37	15.54	15.79
		8	4	15.49	15.67	15.9
		8	7	15.48	15.64	15.82
		15	0	15.3	15.51	15.6

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L1	TE FDD Ba	nd 12		Conducted Power(dBm)		
Donalusi alth	Madulation	RB	RB	Channel/Frequency		
Bandwidth	Modulation	size	offset	23035/701.5	23095/707.5	23155/713.5
		1	0	17.89	17.96	17.91
		1	13	17.77	17.84	17.79
		1	24	17.78	17.85	17.78
	QPSK	12	0	17.04	17.14	17.09
		12	6	17.07	17.11	17.07
		12	13	17.01	17.15	17.08
5841I-		25	0	16.91	17.01	16.94
5MHz		1	0	16.76	16.81	16.79
		1	13	16.65	16.7	16.66
		1	24	16.74	16.78	16.74
	16QAM	12	0	15.81	15.86	15.95
		12	6	15.93	15.99	16.06
		12	13	15.92	15.96	15.98
		25	0	15.74	15.83	15.76
Bandwidth	Modulation	RB	RB	Channel/Frequency		
Balluwiutii	Modulation	size	offset	23060/704	23095/707.5	23130/711
		1	0	18.10	18.15	18.05
		1	25	17.93	18	17.89
		1	49	17.94	18.01	17.88
	QPSK	25	0	17.2	17.05	17.23
		25	13	17.1	16.81	17.15
		25	25	17.16	17.27	17.24
10MU-		50	0	17.07	16.92	17.11
10MHz		1	0	16.92	16.97	16.89
		1	25	16.81	16.86	16.76
		1	49	16.9	16.94	16.84
	16QAM	25	0	15.97	16.02	16.05
		25	13	16.09	16.15	16.16
		25	25	16.08	16.12	16.08
		50	0	15.9	15.99	15.86

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6. LTE Band 17 Conducted Power Test Verdict:

Lī	TE FDD Ba	nd 17		Conducted Power(dBm)		
Dan duvi déh	Madulation	RB	RB	Cha	annel/Freque	ncy
Bandwidth	Modulation	size	offset	23755/706.5	23790/710	23825/713.5
		1	0	18.02	18.13	17.88
		1	13	17.91	18	17.74
		1	24	17.87	18.01	17.73
	QPSK	12	0	17.37	17.47	17.05
		12	6	17.14	17.28	17
		12	13	17.18	17.31	17.07
5MHz		25	0	17.2	17.34	16.88
SIVITZ		1	0	16.9	17	16.74
		1	13	16.79	16.85	16.59
		1	24	16.89	16.97	16.71
	16QAM	12	0	15.99	16.05	15.89
		12	6	16.02	16.18	15.96
		12	13	16.04	16.16	15.85
		25	0	15.9	16.04	15.73
Bandwidth	Modulation	RB	RB	Cha	annel/Freque	ncy
Ballowidtii	Modulation	size	offset	23780/709	23790/710	23800/711
		1	0	18.08	18.21	18.02
		1	25	18	18.15	17.83
		1	49	17.98	18.02	17.81
	QPSK	25	0	17.24	17.32	17.27
		25	13	16.97	16.95	17.15
		25	25	16.72	16.72	17.24
10MHz		50	0	16.19	16.64	17.29
10111112		1	0	16.99	17	16.85
		1	25	16.85	16.89	16.69
		1	49	16.97	16.98	16.8
	16QAM	25	0	16.05	16.05	16
		25	13	16.16	15.97	16.11
		25	25	16.17	16.07	16.03
		50	0	16.06	15.17	15.8

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7. LTE Band 25 Conducted Power Test Verdict:

Lī	LTE FDD Band 25				Conducted Power(dBm)		
Dandwidth	Modulation	RB	RB	С	Channel/Frequency		
Bandwidth	Modulation	size	offset	26047/1850.7	26365/1882.5	26683/1914.3	
		1	0	17.68	17.84	17.93	
		1	3	17.53	17.71	17.78	
		1	5	17.5	17.69	17.74	
	QPSK	3	0	16.85	17	17.08	
		3	2	16.8	17.01	17.04	
		3	3	16.79	17.02	17.05	
1.4MHz		6	0	16.74	16.85	16.94	
1.411172		1	0	16.56	16.67	16.8	
		1	3	16.41	16.54	16.67	
		1	5	16.51	16.62	16.72	
	16QAM	3	0	15.6	15.74	15.99	
		3	2	15.71	15.63	16.04	
		3	3	15.69	15.69	15.95	
		6	0	15.56	14.82	15.71	
Bandwidth	Modulation	RB	RB	Channel/Frequency			
Danawidin	Modulation	size	offset	26055/1851.5	26365/1882.5	26675/1913.5	
		1	0	17.78	18.02	18.09	
		1	7	17.63	17.89	17.94	
		1	14	17.6	17.87	17.9	
	QPSK	8	0	16.95	17.18	17.24	
		8	4	16.9	17.19	17.2	
		8	7	16.89	17.2	17.21	
3MHz		15	0	16.84	17.03	17.1	
OWN 12		1	0	16.66	16.85	16.96	
		1	7	16.51	16.72	16.83	
		1	14	16.61	16.8	16.88	
	16QAM	8	0	15.7	15.92	16.15	
		8	4	15.81	15.81	16.2	
		8	7	15.79	15.87	16.11	
		15	0	15.66	15	15.87	

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Lī	TE FDD Ba	nd 25		Conducted Power(dBm)		
Donalis i dela	Madulatian	RB	RB	С	hannel/Frequenc	су
Bandwidth	Modulation	size	offset	26065/1852.5	26365/1882.5	26665/1912.5
		1	0	18.02	18.11	18.16
		1	13	17.87	17.99	18.05
		1	24	17.83	17.96	18.04
	QPSK	12	0	17.17	17.25	17.33
		12	6	17.11	17.24	17.21
		12	13	17.09	17.25	17.21
5841I-		25	0	17.04	17.07	17.2
5MHz		1	0	16.87	16.97	17.02
		1	13	16.69	16.86	16.87
		1	24	16.83	16.92	16.94
	16QAM	12	0	15.91	16.04	16.19
		12	6	16.02	15.98	16.31
		12	13	16.04	15.99	16.17
		25	0	15.9	15.19	15.88
Bandwidth	Modulation	RB	RB	Channel/Frequency		
Balluwiutii	Modulation	size	offset	26090/1855	26365/1882.5	26640/1910
		1	0	18.12	18.25	18.26
		1	25	18	18.1	18.13
		1	49	17.98	18.12	18.11
	QPSK	25	0	17.31	17.4	17.42
		25	13	17.27	17.44	17.35
		25	25	17.26	17.41	17.34
10MHz		50	0	17.19	17.28	17.3
10MHz		1	0	16.99	17.1	17.15
		1	25	16.85	16.99	16.99
		1	49	16.97	17.08	17.1
	16QAM	25	0	16.05	16.15	16.3
		25	13	16.16	16.07	16.41
		25	25	16.17	16.17	16.33
		50	0	16.06	15.27	16.1

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Lī	LTE FDD Band 25				Conducted Power(dBm)		
Donalis i dela	Madulatian	RB	RB	Channel/Frequency			
Bandwidth	Modulation	size	offset	26115/1857.5	26365/1882.5	26615/1907.5	
		1	0	18.27	18.32	18.33	
		1	38	18.12	18.2	18.22	
		1	74	18.08	18.17	18.21	
	QPSK	36	0	17.42	17.46	17.5	
		36	18	17.36	17.45	17.38	
		36	39	17.34	17.46	17.38	
15MHz		75	0	17.29	17.28	17.37	
ISWINZ		1	0	17.12	17.18	17.19	
		1	38	16.94	17.07	17.04	
		1	74	17.08	17.13	17.11	
	16QAM	36	0	16.16	16.25	16.36	
		36	18	16.27	16.19	16.48	
		36	39	16.29	16.2	16.34	
		75	0	16.15	15.4	16.05	
Bandwidth	Modulation	RB	RB	С	hannel/Frequen	су	
Banawiatii	Woddiation	size	offset	26140/1860	26365/1882.5	26590/1905	
		1	0	18.42	18.59	18.43	
		1	50	18.2	18.27	18.26	
		1	99	18.16	18.24	18.25	
	QPSK	50	0	17.57	17.73	17.60	
		50	25	17.44	17.52	17.42	
		50	50	17.42	17.23	17.35	
20MHz		100	0	17.37	17.31	17.41	
2011112		1	0	16.2	17.25	17.23	
		1	50	16.02	17.14	17.08	
		1	99	16.16	17.2	17.15	
	16QAM	50	0	15.24	16.32	16.4	
		50	25	15.35	16.26	16.52	
		50	50	15.37	16.27	16.38	
		100	0	15.23	15.47	16.09	

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8. LTE Band 26 Conducted Power Test Verdict

Lī	TE FDD Ba	nd 26		Conducted Power(dBm)		
Dan duvidth	Madulation	RB	RB	Ch	nannel/Frequer	псу
Bandwidth	Modulation	size	offset	26697/814.7	26865/831.5	27033/848.3
		1	0	17.75	17.89	17.79
		1	3	17.6	17.76	17.64
		1	5	17.57	17.74	17.6
	QPSK	3	0	16.92	17.05	16.94
		3	2	16.87	17.06	16.9
		3	3	16.86	17.07	16.91
1.4MHz		6	0	16.81	16.9	16.8
1.4111712		1	0	16.63	16.72	16.66
		1	3	16.48	16.59	16.53
		1	5	16.58	16.67	16.58
	16QAM	3	0	15.67	15.79	15.85
		3	2	15.78	15.68	15.9
		3	3	15.76	15.74	15.81
		6	0	15.63	14.87	15.57
Bandwidth	Modulation	RB	RB	Ch	nannel/Frequen	ncy
Danawidin	Modulation	size	offset	26705/815.5	26865/831.5	27025/847.5
		1	0	18	18.12	18.05
		1	7	17.85	18	17.94
		1	14	17.81	17.97	17.93
	QPSK	8	0	17.15	17.26	17.22
		8	4	17.09	17.25	17.1
		8	7	17.07	17.26	17.1
3MHz		15	0	17.02	17.08	17.09
JIVII IZ		1	0	16.85	16.98	16.91
		1	7	16.67	16.87	16.76
		1	14	16.81	16.93	16.83
	16QAM	8	0	15.89	16.05	16.08
		8	4	16	15.99	16.2
		8	7	16.02	16	16.06
		15	0	15.88	15.2	15.77

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L3	ΓE FDD Ba	nd 26		Conducted Power(dBm)			
Dan danidah	Mandadatian	RB	RB	Ch	Channel/Frequency		
Bandwidth	Modulation	size	offset	26715/816.5	26865/831.5	27015/846.5	
		1	0	18.13	18.25	18.24	
		1	13	17.98	18.13	18.13	
		1	24	17.94	18.1	18.12	
	QPSK	12	0	17.28	17.39	17.41	
		12	6	17.22	17.38	17.29	
		12	13	17.2	17.39	17.29	
5 NAL 1-		25	0	17.15	17.21	17.28	
5MHz		1	0	16.98	17.11	17.1	
		1	13	16.8	17	16.95	
		1	24	16.94	17.06	17.02	
	16QAM	12	0	16.02	16.18	16.27	
		12	6	16.13	16.12	16.39	
		12	13	16.15	16.13	16.25	
		25	0	16.01	15.33	15.96	
Bandwidth	Modulation	RB	RB	Channel/Frequency		icy	
Balluwiutii	Modulation	size	offset	26740/819	26865/831.5	26990/844	
		1	0	18.25	18.34	18.35	
		1	25	18.1	18.22	18.24	
		1	49	18.06	18.19	18.23	
	QPSK	25	0	17.4	17.48	17.52	
		25	13	17.34	17.47	17.4	
		25	25	17.32	17.48	17.4	
10MHz		50	0	17.27	17.3	17.39	
TOWINZ		1	0	17.1	17.2	17.21	
		1	25	16.92	17.09	17.06	
		1	49	17.06	17.15	17.13	
	16QAM	25	0	16.14	16.27	16.38	
		25	13	16.25	16.21	16.5	
		25	25	16.27	16.22	16.36	
		50	0	16.13	15.42	16.07	

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Lī	LTE FDD Band 26				Conducted Power(dBm)		
Pandwidth	Modulation	RB	RB	С	hannel/Frequen	су	
Bandwidth	Modulation	size	offset	26765/821.5	26865/831.52	26965/841.5	
		1	0	18.42	18.63	18.46	
		1	38	18.2	18.3	18.29	
		1	74	18.16	18.27	18.28	
	QPSK	36	0	17.57	17.79	17.63	
		36	18	17.44	17.55	17.45	
		36	39	17.42	17.56	17.45	
450011-		75	0	17.37	17.38	17.44	
15MHz		1	0	17.2	17.28	17.26	
		1	38	17.02	17.17	17.11	
		1	74	17.16	17.23	17.18	
	16QAM	36	0	16.24	16.35	16.43	
		36	18	16.35	16.29	16.55	
		36	39	16.37	16.3	16.41	
		75	0	16.23	15.5	16.12	

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9. LTE Band 30 Conducted Power Test Verdict

Lī	TE FDD Ba	nd 30		Conducted Power(dBm)			
Dan duvi déla	Madulation	RB	RB	Ch	annel/Frequer	ncy	
Bandwidth	Modulation	size	offset	27685/2307.5	27710/2310	27735/2312.5	
		1	0	17.56	17.63	17.52	
		1	13	17.44	17.51	17.4	
		1	24	17.45	17.52	17.39	
	QPSK	12	0	16.71	16.81	16.7	
		12	6	16.74	16.78	16.68	
		12	13	16.68	16.82	16.69	
5MHz		25	0	16.58	16.68	16.55	
SIVITZ		1	0	16.43	16.48	16.4	
		1	13	16.32	16.37	16.27	
		1	24	16.41	16.45	16.35	
	16QAM	12	0	15.48	15.53	15.56	
		12	6	15.6	15.66	15.67	
		12	13	15.59	15.63	15.59	
		25	0	15.41	15.5	15.37	
Bandwidth	Modulation	RB	RB	Channel/Frequency			
Ballawiatii	Modulation	size	offset	27710/2310	27710/2310	27710/2310	
		1	0	17.69	17.69	17.69	
		1	25	17.57	17.57	17.57	
		1	49	17.58	17.58	17.58	
	QPSK	25	0	16.27	16.27	16.27	
		25	13	16.16	16.16	16.16	
		25	25	16.04	16.04	16.04	
10MU -		50	0	16.14	16.14	16.14	
10MHz		1	0	16.54	16.54	16.54	
		1	25	16.43	16.43	16.43	
		1	49	16.51	16.51	16.51	
	16QAM	25	0	15.59	15.59	15.59	
		25	13	15.72	15.72	15.72	
		25	25	15.69	15.69	15.69	
		50	0	15.56	15.56	15.56	

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10. LTE Band 41 Conducted Power Test Verdict

L1	TE TDD Ba	nd 41		Conducted Power(dBm)			
Dandwidth	Madulation	RB	RB	Ch	Channel/Frequency		
Bandwidth	Modulation	size	offset	39675/2498.5	40620/2593	41565/2687.5	
		1	0	18.02	18.09	17.85	
		1	13	17.87	17.97	17.74	
		1	24	17.83	17.94	17.73	
	QPSK	12	0	17.17	17.23	17.02	
		12	6	17.11	17.22	16.9	
		12	13	17.09	17.23	16.9	
5MHz		25	0	17.04	17.05	16.89	
SIVITZ		1	0	16.87	16.95	16.71	
		1	13	16.69	16.84	16.56	
		1	24	16.83	16.9	16.63	
	16QAM	12	0	15.91	16.02	15.88	
		12	6	16.02	15.96	16	
		12	13	16.04	15.97	15.86	
		25	0	15.9	15.17	15.57	
Bandwidth	Modulation	RB	RB	Channel/Frequency			
Bandwidth	Modulation	size	offset	39700/2501	40620/2593	41540/2685	
		1	0	18.08	18.13	17.96	
		1	25	17.93	18.01	17.85	
		1	49	17.89	17.98	17.84	
	QPSK	25	0	17.23	17.27	17.13	
		25	13	17.17	17.26	17.01	
		25	25	17.15	17.27	17.01	
10MHz		50	0	17.1	17.09	17	
I OIVII IZ		1	0	16.93	16.99	16.82	
		1	25	16.75	16.88	16.67	
		1	49	16.89	16.94	16.74	
	16QAM	25	0	15.97	16.06	15.99	
		25	13	16.08	16	16.11	
		25	25	16.1	16.01	15.97	
		50	0	15.96	15.21	15.68	

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L	TE TDD Ba	nd 41		Conducted Power(dBm)		
Dan duvidéla	Modulation	RB	RB	Ch	annel/Frequer	псу
Bandwidth	Modulation	size	offset	39725/2503.5	40620/2593	41515/2682.5
		1	0	18.12	18.17	18.02
		1	38	17.97	18.05	17.91
		1	74	17.93	18.02	17.9
	QPSK	36	0	17.27	17.31	17.19
		36	18	17.21	17.3	17.07
		36	39	17.19	17.31	17.07
45MU-		75	0	17.14	17.13	17.06
15MHz		1	0	16.97	17.03	16.88
		1	38	16.79	16.92	16.73
		1	74	16.93	16.98	16.8
	16QAM	36	0	16.01	16.1	16.05
		36	18	16.12	16.04	16.17
		36	39	16.14	16.05	16.03
		75	0	16	15.25	15.74
Bandwidth	Modulation	RB	RB	Ch	annel/Frequer	ncy
Balluwiutii	Modulation	size	offset	39750/2506	40620/2593	41490/2680
		1	0	18.18	18.25	18.16
		1	50	18	18.09	17.95
		1	99	17.96	18.06	17.94
	QPSK	50	0	17.33	17.39	17.33
		50	25	17.24	17.34	17.11
		50	50	17.22	17.35	17.11
20MHz		100	0	17.17	17.17	17.1
201411 12		1	0	17	17.07	16.92
		1	50	16.82	16.96	16.77
		1	99	16.96	17.02	16.84
	16QAM	50	0	16.04	16.14	16.09
		50	25	16.15	16.08	16.21
		50	50	16.17	16.09	16.07
		100	0	16.03	15.29	15.78

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11. LTE Band 66 Conducted Power Test Verdict

Lī	TE FDD Ba	nd 66		Conducted Power(dBm)			
Pandwidth.	Modulation	RB	RB	Cł	Channel/Frequency		
Bandwidth	Modulation	size	offset	131979/1710.7	132322/1745	132665/1779.3	
		1	0	17.75	17.67	17.45	
		1	3	17.62	17.57	17.33	
		1	5	17.64	17.56	17.32	
	QPSK	3	0	16.92	16.85	16.6	
		3	2	16.93	16.84	16.57	
		3	3	16.94	16.86	16.58	
1.4MHz		6	0	16.8	16.73	16.47	
1.4111112		1	0	16.62	16.52	16.34	
		1	3	16.47	16.41	16.21	
		1	5	16.6	16.49	16.33	
	16QAM	3	0	15.69	15.6	15.52	
		3	2	15.77	15.7	15.55	
		3	3	15.79	15.71	15.49	
		6	0	15.67	15.61	15.34	
Bandwidth	Modulation	RB	RB	Channel/Frequency			
Ballawiatii	Modulation	size	offset	131987/1711.5	12322/1745	132657/1778.5	
		1	0	17.79	17.85	17.66	
		1	7	17.66	17.75	17.54	
		1	14	17.68	17.74	17.53	
	QPSK	8	0	16.96	17.03	16.81	
		8	4	16.97	17.02	16.78	
		8	7	16.98	17.04	16.79	
3MHz		15	0	16.84	16.91	16.68	
		1	0	16.66	16.7	16.55	
		1	7	16.51	16.59	16.42	
		1	14	16.64	16.67	16.54	
	16QAM	8	0	15.73	15.78	15.73	
		8	4	15.81	15.88	15.76	
		8	7	15.83	15.89	15.7	
		15	0	15.71	15.79	15.55	

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L1	TE FDD Ba	nd 66		Condu	cted Power	r(dBm)
Dan alvei altia	Ma dulatian	RB	RB	CI	nannel/Frequen	су
Bandwidth	Modulation	size	offset	131997/1712.5	132322/1745	132647/1777.5
		1	0	18.02	18.16	18.07
		1	13	17.89	18.06	17.95
		1	24	17.91	18.05	17.94
	QPSK	12	0	17.19	17.34	17.22
		12	6	17.2	17.33	17.19
		12	13	17.21	17.35	17.2
CNALL-		25	0	17.07	17.22	17.09
5MHz		1	0	16.89	17.01	16.96
		1	13	16.74	16.9	16.83
		1	24	16.87	16.98	16.95
	16QAM	12	0	15.96	16.09	16.14
		12	6	16.04	16.19	16.17
		12	13	16.06	16.2	16.11
		25	0	15.94	16.1	15.96
Bandwidth	Modulation	RB	RB	CI	nannel/Frequen	су
Bandwidth	Modulation	size	offset	132022/1715	132322/1745	132622/1775
		1	0	18.15	18.24	18.13
		1	25	18.02	18.14	18.01
		1	49	18.04	18.13	18
	QPSK	25	0	17.32	17.42	17.28
		25	13	17.33	17.41	17.25
		25	25	17.34	17.43	17.26
10MHz		50	0	17.2	17.3	17.15
I UIVII IZ		1	0	17.02	17.09	17.02
		1	25	16.87	16.98	16.89
		1	49	17	17.06	17.01
	16QAM	25	0	16.09	16.17	16.2
		25	13	16.17	16.27	16.23
		25	25	16.19	16.28	16.17
		50	0	16.07	16.18	16.02

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L	TE FDD Ba	nd 66		Condu	ıcted Poweı	(dBm)
Dan duvi déla	Madulation	RB	RB	CI	hannel/Frequen	су
Bandwidth	Modulation	size	offset	132047/1717.5	132322/1745	132597/1772.5
		1	0	18.21	18.28	18.21
		1	38	18.08	18.18	18.09
		1	74	18.1	18.17	18.08
	QPSK	36	0	17.38	17.46	17.36
		36	18	17.39	17.45	17.33
		36	39	17.4	17.47	17.34
15MHz		75	0	17.26	17.34	17.23
ISWITZ		1	0	17.08	17.13	17.1
		1	38	16.93	17.02	16.97
		1	74	17.06	17.1	17.09
	16QAM	36	0	16.15	16.21	16.28
		36	18	16.23	16.31	16.31
		36	39	16.25	16.32	16.25
		75	0	16.13	16.22	16.1
Bandwidth	Modulation	RB	RB	CI	nannel/Frequen	су
Ballawiatii	Modulation	size	offset	132072/1720	132322/1745	132572/1770
		1	0	18.31	18.42	18.27
		1	50	18.12	18.25	18.12
		1	99	18.14	18.24	18.11
	QPSK	50	0	17.48	17.60	17.42
		50	25	17.43	17.52	17.36
		50	50	17.44	17.54	17.37
20MHz		100	0	17.3	17.41	17.26
201411 12		1	0	17.12	17.2	17.13
		1	50	16.97	17.09	17
		1	99	17.1	17.17	17.12
	16QAM	50	0	16.19	16.28	16.31
		50	25	16.27	16.38	16.34
		50	50	16.29	16.39	16.28
		100	0	16.17	16.29	16.13

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7.2 Primary Antenna

GSM Conducted Power

CS	MOEO	Burst-A	veraged outp	out Power	Division		-Average	•
GS	M850	400011	(dBm)	054011	ļ _ ,		ower (dBr	
		128CH	190CH	251CH	Factors	28CH	190CH	251CH
GSI	M (CS)	31.21	31.18	31.15	-9.19	22.02	21.99	21.96
	1 Tx Slot	31.05	31.21	31.13	-9.19	21.86	22.02	21.94
GPRS	2 Tx Slots	28.17	28.20	28.09	-6.13	22.04	22.07	21.96
(GMSK)	3 Tx Slots	26.76	26.72	26.84	-4.42	22.34	22.30	22.42
	4 Tx Slots	25.91	26.03	25.96	-3.18	22.73	22.85	22.78
	1 Tx Slot	26.81	26.46	25.89	-9.19	17.62	17.27	16.70
EDGE	2 Tx Slots	24.00	24.03	23.83	-6.13	17.87	17.90	17.70
(8PSK)	3 Tx Slots	22.52	22.46	22.57	-4.42	18.10	18.04	18.15
	4 Tx Slots	21.78	21.89	21.83	-3.18	18.60	18.71	18.65
		Burst-A	veraged outp	out Power	Division	Frame	-Average	d output
GSI	M1900		(dBm)			P	ower (dBr	n)
		512CH	661CH	810CH	Factors	512CH	661CH	810CH
GSI	M (CS)	28.81	28.69	25.46	-9.19	19.62	19.50	16.27
	1 Tx Slot	28.48	28.36	27.89	-9.19	19.29	15.17	18.70
GPRS	2 Tx Slots	25.77	25.79	25.68	-6.13	19.64	19.66	19.55
(GMSK)	3 Tx Slots	24.41	24.34	24.44	-4.42	19.99	19.92	20.02
	4 Tx Slots	23.31	23.18	23.11	-3.18	20.13	20.00	21.13
	1 Tx Slot	25.55	24.93	24.47	-9.19	16.36	15.74	15.28
EDGE	2 Tx Slots	22.78	22.80	22.63	-6.13	16.65	16.67	16.50
(8PSK)	3 Tx Slots	21.30	21.19	21.30	-4.42	16.88	16.77	16.88
	4 Tx Slots	20.44	20.50	20.49	-3.18	17.26	17.32	17.31

Note: Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

For hotspot SAR, EUT was performed at GPRS Class 12 multi-slots(4Tx) mode
For Head and Body-worn SAR testing, EUT was set in GSM Voice mode for both GSM850 and GSM1900

Timeslot consignations

No. Of Slots	Slot 1	Slot 2	Slot 3	Slot 4
Slot Consignation	1Up4Down	2UpDown	3UpDown	4Up1Down
Duty Cycle	1:8	1:4	1:2.67	1:2
Crest Factor	-9.03dB	-6.02dB	-4.26dB	-3.01dB

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CDMA Conducted output Power

Conducted Power (Unit:dBm)								
Band		CDMA BC0						
Channel	1013	384	777					
Frequency(MHz)	824.7	836.52	848.31					
RC1 + SO55	23.75	23.78	23.76					
RC3 + SO55	23.68	23.74	23.71					
RC3 + SO32(+ F-SCH)	23.66	23.69	23.57					
RC3 + SO32(+SCH)	23.67	23.68	23.61					
1xEVDO Rev A RETAP	22.46	22.42	22.36					
Band		CDMA BC1						
Channel	25	600	1175					
Frequency(MHz)	1851.25	1880.00	1908.75					
RC1 + SO55	22.81	22.82	22.78					
RC3 + SO55	22.78	22.81	22.75					
RC3 + SO32(+ F-SCH)	22.67	22.69	22.62					
RC3 + SO32(+SCH)	22.41	22.43	22.42					
1xEVDO Rev A RETAP	21.58	21.64	21.56					

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WCDMA Conducted output Power

	band	W	CDMA 8	50	W	CDMA 1	900	WCDMA1700		
Item	Frequency	4132	4183	4233	9262	9400	9538	1313	1413	1513
	Subtest		dBm			dBm			dBm	
WCDMA	RMC 12.2Kbps	21.61	21.23	21.52	21.63	21.01	21.73	21.51	21.18	21.56
	1	21.23	21.61	23.46	21.21	20.81	21.02	21.23	21.17	21.31
HSDPA	2	21.08	21.33	23.2	21.09	20.56	20.8	21.11	20.92	21.09
IISDFA	3	21.01	21.30	23.24	20.98	20.48	20.81	21.00	20.84	21.10
	4	21.06	21.23	23.33	21.06	20.5	20.89	21.08	20.86	21.18
	1	21.11	20.58	21.51	21.68	21.46	21.39	21.08	20.9	21.19
	2	21.00	20.35	21.39	21.56	21.22	21.23	20.96	20.66	21.03
HSUPA	3	20.93	20.45	21.38	21.53	21.3	21.34	20.93	20.74	21.14
	4	20.99	20.36	21.23	21.55	21.22	21.16	20.95	20.66	20.96
	5	20.88	20.40	21.36	21.44	21.33	21.28	20.84	20.77	21.08

Note:

- 3. WCDMA SAR was tested under PMC 12.2kbps with HSPA Inactive per KDB Publication 941225 D01v03r01.HSPA SAR was not requires since the average output power of the HSPA subtests was not more than 0.25dB higher than the RMC level and SAR was less than 1.2W/kg.
- 4. It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2dB more than specified by 3GPP, but also as low as 0dB according to the chipset implementation in this model

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LTE Conducted peak output Power

LTE Test Configurations

The CMW500 Wide Band Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all frames.

3) Spectrum Plots for RB configurations

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

4) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

The allowed Maximum Power Reduction(MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101:

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel	MPR (dB)					
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 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

3)A-MPR LTE procedures for SAR testing

A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signaling Value of "NS_01" on the base station simulator.

4)LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test

requirements i) 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 1RB 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.

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1. LTE Band 2 Conducted Power Test Verdict:

L	TE FDD B	and 2		Conduc	cted Powe	er(dBm)
Dan desidable	Madulation	RB	RB	Channel	Channel	Channel
Bandwidth	Modulation	size	offset	18607	18900	19193
		1	0	22.68	22.81	22.75
		1	3	22.55	22.71	22.63
		1	5	22.57	22.7	22.62
	QPSK	3	0	21.85	21.99	21.9
		3	2	21.86	21.98	21.87
		3	3	21.87	22	21.88
4 4844-		6	0	21.73	21.87	21.77
1.4MHz		1	0	21.55	21.66	21.64
		1	3	21.4	21.55	21.51
		1	5	21.53	21.63	21.63
	16QAM	3	0	20.62	20.74	20.82
		3	2	20.7	20.84	20.85
		3	3	20.72	20.85	20.79
		6	0	20.6	20.75	20.64
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel
Ballawiatii	Modulation	size	offset	18615	18900	19185
		1	0	22.74	22.91	22.78
		1	7	22.61	22.81	22.66
		1	14	22.63	22.8	22.65
	QPSK	8	0	21.91	22.09	21.93
		8	4	21.92	22.08	21.9
		8	7	21.93	22.1	21.91
3MHz		15	0	21.79	21.97	21.8
JIVII IZ		1	0	21.61	21.76	21.67
		1	7	21.46	21.65	21.54
		1	14	21.59	21.73	21.66
	16QAM	8	0	20.68	20.84	20.85
		8	4	20.76	20.94	20.88
		8	7	20.78	20.95	20.82
		15	0	20.66	20.85	20.67

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Dan duvi dila	Madulation	DD :==	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	18625	18900	19175
		1	0	22.93	22.95	22.92
		1	13	22.8	22.85	22.8
		1	24	22.82	22.84	22.79
	QPSK	12	0	22.1	22.13	22.07
		12	6	22.11	22.12	22.04
		12	13	22.12	22.14	22.05
5MHz		25	0	21.98	22.01	21.94
SIVIE		1	0	21.8	21.8	21.81
	16QAM	1	13	21.65	21.69	21.68
		1	24	21.78	21.77	21.8
		12	0	20.87	20.88	20.99
		12	6	20.95	20.98	21.02
		12	13	20.97	20.99	20.96
		25	0	20.85	20.89	20.81
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Dallawiatii						
	Woodalation.	TED 0120	offset	18650	18900	19150
		1	offset 0	18650 23.05	18900 23.11	19150 23.02
	- Modelation					
	The deficiency of the second s	1	0	23.05	23.11	23.02
	QPSK	1	0 25	23.05 22.92	23.11 23.01	23.02 22.9
		1 1 1	0 25 49	23.05 22.92 22.94	23.11 23.01 23	23.02 22.9 22.89
		1 1 1 25	0 25 49 0	23.05 22.92 22.94 22.22	23.11 23.01 23 22.29	23.02 22.9 22.89 22.17
10MHz		1 1 1 25 25	0 25 49 0 13	23.05 22.92 22.94 22.22 22.23	23.11 23.01 23 22.29 22.28	23.02 22.9 22.89 22.17 22.14
10MHz		1 1 1 25 25 25	0 25 49 0 13 25	23.05 22.92 22.94 22.22 22.23 22.24	23.11 23.01 23 22.29 22.28 22.3	23.02 22.9 22.89 22.17 22.14 22.15
10MHz		1 1 1 25 25 25 25 50	0 25 49 0 13 25	23.05 22.92 22.94 22.22 22.23 22.24 22.1	23.11 23.01 23 22.29 22.28 22.3 22.17	23.02 22.9 22.89 22.17 22.14 22.15 22.04
10MHz		1 1 1 25 25 25 25 50	0 25 49 0 13 25 0	23.05 22.92 22.94 22.22 22.23 22.24 22.1 21.92	23.11 23.01 23 22.29 22.28 22.3 22.17 21.96	23.02 22.9 22.89 22.17 22.14 22.15 22.04 21.91
10MHz		1 1 1 25 25 25 25 50 1	0 25 49 0 13 25 0 0	23.05 22.92 22.94 22.22 22.23 22.24 22.1 21.92 21.77	23.11 23.01 23 22.29 22.28 22.3 22.17 21.96 21.85	23.02 22.9 22.89 22.17 22.14 22.15 22.04 21.91 21.78
10MHz	QPSK	1 1 1 25 25 25 50 1 1	0 25 49 0 13 25 0 0 25 49	23.05 22.92 22.94 22.22 22.23 22.24 22.1 21.92 21.77 21.9	23.11 23.01 23 22.29 22.28 22.3 22.17 21.96 21.85 21.93	23.02 22.9 22.89 22.17 22.14 22.15 22.04 21.91 21.78 21.9
10MHz	QPSK	1 1 1 25 25 25 25 50 1 1 1 25	0 25 49 0 13 25 0 0 25 49	23.05 22.92 22.94 22.22 22.23 22.24 22.1 21.92 21.77 21.9 20.99	23.11 23.01 23 22.29 22.28 22.3 22.17 21.96 21.85 21.93 21.04	23.02 22.9 22.89 22.17 22.14 22.15 22.04 21.91 21.78 21.9 21.09

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Daniel del	Marabala Cara	DD -:	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	18675	18900	19125
		1	0	23.13	23.28	23.16
		1	38	23	23.18	23.04
		1	74	23.02	23.17	23.03
	QPSK	36	0	22.3	22.46	22.31
		36	18	22.31	22.45	22.28
		36	39	22.32	22.47	22.29
15MHz		75	0	22.18	22.34	22.18
ISIVITZ		1	0	22	22.13	22.05
	16QAM	1	38	21.85	22.02	21.92
		1	74	21.98	22.1	22.04
		36	0	21.07	21.21	21.23
		36	18	21.15	21.31	21.26
		36	39	21.17	21.32	21.2
		75	0	21.05	21.22	21.05
			RB	Channel	Channel	Channel
Randwidth	Modulation	RR siza		Onamo	Onamo	Onamo
Bandwidth	Modulation	RB size	offset	18700	18900	19100
Bandwidth	Modulation	RB size				
Bandwidth	Modulation		offset	18700	18900	19100
Bandwidth	Modulation	1	offset 0	18700 23.36	18900 23.42	19100 23.12
Bandwidth	Modulation QPSK	1	offset 0 50	18700 23.36 23.23	18900 23.42 23.32	19100 23.12 23
Bandwidth		1 1 1	offset 0 50 99	18700 23.36 23.23 23.25	18900 23.42 23.32 23.31	19100 23.12 23 22.99
Bandwidth		1 1 1 50	0 50 99 0	18700 23.36 23.23 23.25 22.53	18900 23.42 23.32 23.31 22.6	19100 23.12 23 22.99 22.27
		1 1 1 50 50	offset 0 50 99 0 25	18700 23.36 23.23 23.25 22.53 22.54	18900 23.42 23.32 23.31 22.6 22.59	19100 23.12 23 22.99 22.27 22.24
20MHz		1 1 1 50 50 50	0 50 99 0 25 50	18700 23.36 23.23 23.25 22.53 22.54 22.55	18900 23.42 23.32 23.31 22.6 22.59 22.61	19100 23.12 23 22.99 22.27 22.24 22.25
		1 1 1 50 50 50 100	0 50 99 0 25 50	18700 23.36 23.23 23.25 22.53 22.54 22.55 22.41	18900 23.42 23.32 23.31 22.6 22.59 22.61 22.48	19100 23.12 23 22.99 22.27 22.24 22.25 22.14
		1 1 1 50 50 50 100	0 50 99 0 25 50 0	18700 23.36 23.23 23.25 22.53 22.54 22.55 22.41 22.23	18900 23.42 23.32 23.31 22.6 22.59 22.61 22.48 22.27	19100 23.12 23 22.99 22.27 22.24 22.25 22.14 22.01
		1 1 1 50 50 50 100 1	offset 0 50 99 0 25 50 0 0 50	18700 23.36 23.23 23.25 22.53 22.54 22.55 22.41 22.23 22.08	18900 23.42 23.32 23.31 22.6 22.59 22.61 22.48 22.27 22.16	19100 23.12 23 22.99 22.27 22.24 22.25 22.14 22.01 21.88
	QPSK	1 1 1 50 50 50 100 1 1	offset 0 50 99 0 25 50 0 0 99	18700 23.36 23.23 23.25 22.53 22.54 22.55 22.41 22.23 22.08 22.21	18900 23.42 23.32 23.31 22.6 22.59 22.61 22.48 22.27 22.16 22.24	19100 23.12 23 22.99 22.27 22.24 22.25 22.14 22.01 21.88
	QPSK	1 1 1 50 50 50 100 1 1 1 50	offset 0 50 99 0 25 50 0 0 50 99	18700 23.36 23.23 23.25 22.53 22.54 22.55 22.41 22.23 22.08 22.21 21.3	18900 23.42 23.32 23.31 22.6 22.59 22.61 22.48 22.27 22.16 22.24 21.35	19100 23.12 23 22.99 22.27 22.24 22.25 22.14 22.01 21.88 22 21.19

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2. LTE Band 4 Conducted Power Test Verdict:

L	TE FDD B	and 4		Conduc	ted Powe	er(dBm)
Donalis i dela	Ma dulatian	RB	RB	Channel	Channel	Channel
Bandwidth	Modulation	size	offset	19957	20175	20393
		1	0	22.55	22.63	22.46
		1	3	22.42	22.53	22.34
		1	5	22.44	22.52	22.33
	QPSK	3	0	21.72	21.81	21.61
		3	2	21.73	21.8	21.58
		3	3	21.74	21.82	21.59
1.4MHz		6	0	21.6	21.69	21.48
1.4111112		1	0	21.42	21.48	21.35
		1	3	21.27	21.37	21.22
		1	5	21.4	21.45	21.34
	16QAM	3	0	20.49	20.56	20.53
		3	2	20.57	20.66	20.56
		3	3	20.59	20.67	20.5
		6	0	20.47	20.57	20.35
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel
Ballowidth	Modulation	size	offset	19965	20175	20385
		1	0	22.65	22.76	22.65
		1	7	22.52	22.66	22.53
		1	14	22.54	22.65	22.52
	QPSK	8	0	21.82	21.94	21.8
		8	4	21.83	21.93	21.77
		8	7	21.84	21.95	21.78
3MHz		15	0	21.7	21.82	21.67
SIVII IZ		1	0	21.52	21.61	21.54
		1	7	21.37	21.5	21.41
		1	14	21.5	21.58	21.53
	16QAM	8	0	20.59	20.69	20.72
		8	4	20.67	20.79	20.75
		8	7	20.69	20.8	20.69
		15	0	20.57	20.7	20.54

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Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Balluwiutii	Woddiation	IVD SIZE	offset	19975	20175	20375
		1	0	22.75	22.78	22.71
		1	13	22.62	22.68	22.59
		1	24	22.64	22.67	22.58
	QPSK	12	0	21.92	21.96	21.86
		12	6	21.93	21.95	21.83
		12	13	21.94	21.97	21.84
5MHz		25	0	21.8	21.84	21.73
SIVITZ		1	0	21.62	21.63	21.6
		1	13	21.47	21.52	21.47
	16QAM	1	24	21.6	21.6	21.59
		12	0	20.69	20.71	20.78
		12	6	20.77	20.81	20.81
		12	13	20.79	20.82	20.75
		25	0	20.67	20.72	20.6
					0 .	0
Dandwidth	Modulation	DP cizo	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350
Bandwidth	Modulation	RB size				
Bandwidth	Modulation		offset	20000	20175	20350
Bandwidth	Modulation	1	offset 0	20000 22.85	20175 22.91	20350 22.81
Bandwidth	Modulation QPSK	1	offset 0 25	20000 22.85 22.72	20175 22.91 22.81	20350 22.81 22.69
Bandwidth		1 1 1	offset 0 25 49	20000 22.85 22.72 22.74	20175 22.91 22.81 22.8	20350 22.81 22.69 22.68
Bandwidth		1 1 1 25	offset 0 25 49 0	20000 22.85 22.72 22.74 22.02	20175 22.91 22.81 22.8 22.09	20350 22.81 22.69 22.68 21.96
		1 1 1 25 25	offset 0 25 49 0 13	20000 22.85 22.72 22.74 22.02 22.03	20175 22.91 22.81 22.8 22.09 22.08	20350 22.81 22.69 22.68 21.96 21.93
Bandwidth 10MHz		1 1 1 25 25 25	offset 0 25 49 0 13 25	20000 22.85 22.72 22.74 22.02 22.03 22.04	20175 22.91 22.81 22.8 22.09 22.08 22.1	20350 22.81 22.69 22.68 21.96 21.93 21.94
		1 1 1 25 25 25 25 50	offset 0 25 49 0 13 25 0	20000 22.85 22.72 22.74 22.02 22.03 22.04 21.9	20175 22.91 22.81 22.8 22.09 22.08 22.1 21.97	20350 22.81 22.69 22.68 21.96 21.93 21.94 21.83
		1 1 1 25 25 25 25 50	0 25 49 0 13 25 0 0	20000 22.85 22.72 22.74 22.02 22.03 22.04 21.9 21.72	20175 22.91 22.81 22.8 22.09 22.08 22.1 21.97 21.76	20350 22.81 22.69 22.68 21.96 21.93 21.94 21.83 21.7
		1 1 1 25 25 25 25 50 1	offset 0 25 49 0 13 25 0 0 25	20000 22.85 22.72 22.74 22.02 22.03 22.04 21.9 21.72 21.57	20175 22.91 22.81 22.8 22.09 22.08 22.1 21.97 21.76 21.65	20350 22.81 22.69 22.68 21.96 21.93 21.94 21.83 21.7 21.57
	QPSK	1 1 1 25 25 25 50 1 1	offset 0 25 49 0 13 25 0 0 25 49	20000 22.85 22.72 22.74 22.02 22.03 22.04 21.9 21.72 21.57 21.7	20175 22.91 22.81 22.8 22.09 22.08 22.1 21.97 21.76 21.65 21.73	20350 22.81 22.69 22.68 21.96 21.93 21.94 21.83 21.7 21.57 21.69
	QPSK	1 1 1 25 25 25 25 50 1 1 1 25	offset 0 25 49 0 13 25 0 0 25 49 0	20000 22.85 22.72 22.74 22.02 22.03 22.04 21.9 21.72 21.57 21.7 20.79	20175 22.91 22.81 22.8 22.09 22.08 22.1 21.97 21.76 21.65 21.73 20.84	20350 22.81 22.69 22.68 21.96 21.93 21.94 21.83 21.7 21.57 21.69 20.88

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Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Bandwidth	Woddiation	IND SIZE	offset	20025	20175	20325
		1	0	23.05	23.12	23.05
		1	38	22.92	23.02	22.93
		1	74	22.94	23.01	22.92
	QPSK	36	0	22.22	22.3	22.2
		36	18	22.23	22.29	22.17
		36	39	22.24	22.31	22.18
15MHz		75	0	22.1	22.18	22.07
ISMINZ		1	0	21.92	21.97	21.94
		1	38	21.77	21.86	21.81
		1	74	21.9	21.94	21.93
	16QAM	36	0	20.99	21.05	21.12
		36	18	21.07	21.15	21.15
		36	39	21.09	21.16	21.09
		75	0	20.97	21.06	20.94
D	Modulation	RR cizo	RB	Channel	Channel	Channel
LONGWIGH						
Bandwidth	Modulation	RB size	offset	20050	20175	20300
Bandwidth	Modulation	RB size	offset 0	20050 23.12	20175 23.24	20300 23.08
Bandwidth	Modulation					
Bandwidth	Modulation	1	0	23.12	23.24	23.08
Bandwidth	Modulation QPSK	1	0 50	23.12 22.99	23.24 23.14	23.08 22.96
Bandwidth		1 1 1	0 50 99	23.12 22.99 23.01	23.24 23.14 23.13	23.08 22.96 22.95
Bandwidth		1 1 1 50	0 50 99 0	23.12 22.99 23.01 21.33	23.24 23.14 23.13 21.28	23.08 22.96 22.95 21.34
		1 1 1 50 50	0 50 99 0 25	23.12 22.99 23.01 21.33 21.25	23.24 23.14 23.13 21.28 21.18	23.08 22.96 22.95 21.34 21.11
20MHz		1 1 1 50 50 50	0 50 99 0 25 50	23.12 22.99 23.01 21.33 21.25 21.21	23.24 23.14 23.13 21.28 21.18 21.03	23.08 22.96 22.95 21.34 21.11 21.08
		1 1 1 50 50 50 100	0 50 99 0 25 50	23.12 22.99 23.01 21.33 21.25 21.21 21.21	23.24 23.14 23.13 21.28 21.18 21.03 21.16	23.08 22.96 22.95 21.34 21.11 21.08 21.21
		1 1 1 50 50 50 100	0 50 99 0 25 50 0	23.12 22.99 23.01 21.33 21.25 21.21 21.21 21.99	23.24 23.14 23.13 21.28 21.18 21.03 21.16 22.09	23.08 22.96 22.95 21.34 21.11 21.08 21.21 21.97
		1 1 1 50 50 50 100 1	0 50 99 0 25 50 0 0	23.12 22.99 23.01 21.33 21.25 21.21 21.21 21.99 21.84	23.24 23.14 23.13 21.28 21.18 21.03 21.16 22.09 21.98	23.08 22.96 22.95 21.34 21.11 21.08 21.21 21.97 21.84
	QPSK	1 1 1 50 50 50 100 1 1	0 50 99 0 25 50 0 0 50	23.12 22.99 23.01 21.33 21.25 21.21 21.21 21.99 21.84 21.97	23.24 23.14 23.13 21.28 21.18 21.03 21.16 22.09 21.98 22.06	23.08 22.96 22.95 21.34 21.11 21.08 21.21 21.97 21.84 21.96
	QPSK	1 1 1 50 50 50 100 1 1 1 50	0 50 99 0 25 50 0 0 50 99	23.12 22.99 23.01 21.33 21.25 21.21 21.21 21.99 21.84 21.97 21.06	23.24 23.14 23.13 21.28 21.18 21.03 21.16 22.09 21.98 22.06 21.17	23.08 22.96 22.95 21.34 21.11 21.08 21.21 21.97 21.84 21.96 21.15

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3. LTE Band 5 Conducted Power Test Verdict:

L	TE FDD B	and 5		Conducted Power(dBm)			
Dondwidth	Modulation	RB	RB	Channel	Channel	Channel	
Bandwidth	Modulation	size	offset	20407	20525	20643	
		1	0	23.12	23.28	23.01	
		1	3	22.99	23.17	22.9	
		1	5	22.97	23.13	22.87	
	QPSK	3	0	22.31	22.42	22.15	
		3	2	22.27	22.45	22.19	
		3	3	22.28	22.44	22.14	
1.4MHz		6	0	22.13	22.25	22.04	
1.4111112		1	0	21.99	22.16	21.86	
		1	3	21.88	22.01	21.75	
		1	5	21.97	22.12	21.84	
	16QAM	3	0	21.08	21.24	21.03	
		3	2	21.11	21.33	21.09	
		3	3	21.17	21.35	21	
		6	0	21.03	21.17	20.79	
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	
Bandwidth	Modulation	size	offset	20415	20525	20635	
		1	0	23.15	23.22	23.13	
		1	7	23	23.08	22.99	
		1	14	23.04	23.09	22.98	
	QPSK	8	0	22.33	22.37	22.3	
		8	4	22.34	22.4	22.32	
		8	7	22.35	22.38	22.25	
3MHz		15	0	22.17	22.25	22.14	
3141112		1	0	22.03	22.09	21.96	
		1	7	21.88	21.94	21.81	
		1	14	22	22.03	21.93	
	16QAM	8	0	21.11	21.15	21.15	
		8	4	21.17	21.27	21.24	
		8	7	21.22	21.25	21.13	
		15	0	21.07	21.09	20.89	

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			RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	20425	20525	20625
		1	0	23.28	23.46	23.43
		1	13	23.13	23.31	23.32
		1	24	23.15	23.34	23.28
	QPSK	12	0	22.46	22.63	22.62
		12	6	22.47	22.62	22.59
		12	13	22.45	22.59	22.58
58411-		25	0	22.31	22.47	22.433
5MHz		1	0	22.14	22.34	22.27
		1	13	22.01	22.2	22.13
		1	24	22.09	22.32	22.2
	16QAM	12	0	21.2	21.42	21.42
		12	6	21.33	21.48	21.55
		12	13	21.32	21.51	21.41
		25	0	21.17	21.4	21.17
			RB	Channel	Channel	Channal
Dandwidth	Modulation	DD oizo	ΝĎ	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	20450	20525	20600
Bandwidth	Modulation	RB size				
Bandwidth	Modulation		offset	20450	20525	20600
Bandwidth	Modulation	1	offset 0	20450 23.56	20525 23.71	20600 23.51
Bandwidth	Modulation QPSK	1	offset 0 25	20450 23.56 23.38	20525 23.71 23.59	20600 23.51 23.36
Bandwidth		1 1 1	offset 0 25 49	20450 23.56 23.38 23.4	20525 23.71 23.59 23.59	20600 23.51 23.36 23.4
Bandwidth		1 1 1 25	offset 0 25 49 0	20450 23.56 23.38 23.4 21.46	20525 23.71 23.59 23.59 21.53	20600 23.51 23.36 23.4 21.55
		1 1 1 25 25	0 25 49 0 13	20450 23.56 23.38 23.4 21.46 21.08	20525 23.71 23.59 23.59 21.53 21.33	20600 23.51 23.36 23.4 21.55 21.43
Bandwidth 10MHz		1 1 1 25 25 25	0 25 49 0 13 25	20450 23.56 23.38 23.4 21.46 21.08 21.25	20525 23.71 23.59 23.59 21.53 21.33 21.14	20600 23.51 23.36 23.4 21.55 21.43 21.15
		1 1 1 25 25 25 25 50	0 25 49 0 13 25 0	20450 23.56 23.38 23.4 21.46 21.08 21.25 21.33	20525 23.71 23.59 23.59 21.53 21.33 21.14 21.4	20600 23.51 23.36 23.4 21.55 21.43 21.15 21.37
		1 1 1 25 25 25 25 50	0 25 49 0 13 25 0	20450 23.56 23.38 23.4 21.46 21.08 21.25 21.33 22.43	20525 23.71 23.59 23.59 21.53 21.33 21.14 21.4 22.56	20600 23.51 23.36 23.4 21.55 21.43 21.15 21.37 22.36
		1 1 1 25 25 25 25 50 1	offset 0 25 49 0 13 25 0 0 25	20450 23.56 23.38 23.4 21.46 21.08 21.25 21.33 22.43 22.32	20525 23.71 23.59 23.59 21.53 21.33 21.14 21.4 22.56 22.45	20600 23.51 23.36 23.4 21.55 21.43 21.15 21.37 22.36 22.25
	QPSK	1 1 1 25 25 25 50 1 1	offset 0 25 49 0 13 25 0 0 25 49	20450 23.56 23.38 23.4 21.46 21.08 21.25 21.33 22.43 22.32 22.32	20525 23.71 23.59 23.59 21.53 21.33 21.14 21.4 22.56 22.45 22.48	20600 23.51 23.36 23.4 21.55 21.43 21.15 21.37 22.36 22.25 22.33
	QPSK	1 1 1 25 25 25 25 50 1 1 1 25	offset 0 25 49 0 13 25 0 0 25 49 0 0	20450 23.56 23.38 23.4 21.46 21.08 21.25 21.33 22.43 22.32 22.38 21.52	20525 23.71 23.59 23.59 21.53 21.33 21.14 21.4 22.56 22.45 22.48 21.62	20600 23.51 23.36 23.4 21.55 21.43 21.15 21.37 22.36 22.25 22.33 21.52

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4. LTE Band 7 Conducted Power Test Verdict:

	LTE FDD B	and 7		Conducted Power(dBm)			
Donalisi dila	Madulation	DD size	DD offeet	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20775	21100	21425	
		1	0	23.12	23.18	23.05	
		1	13	23.01	23.03	22.9	
		1	24	22.99	23.05	22.94	
	QPSK	12	0	22.24	22.33	22.22	
		12	6	22.27	22.37	22.19	
		12	13	22.29	22.35	22.2	
5MHz		25	0	22.13	22.15	22.11	
SIVIFIZ		1	0	22.01	22.06	21.89	
		1	13	21.89	21.93	21.78	
		1	24	21.96	22.01	21.88	
	16QAM	12	0	21.1	21.08	21.04	
		12	6	21.13	21.22	21.13	
		12	13	21.15	21.17	21.06	
		25	0	21.04	21.02	20.94	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
Bariawiatii	Woddiation	TO SIZE	TO OHOCE	20800	21100	21400	
		1	0	23.18	23.31	23.05	
		1	25	23.07	23.16	22.9	
		1	49	23.05	23.18	22.94	
	QPSK	25	0	22.3	22.46	22.22	
		25	13	22.33	22.5	22.19	
		25	25	22.35	22.48	22.2	
10MHz		50	0	22.19	22.28	22.11	
10111112		1	0	22.07	22.19	21.89	
		1	25	21.95	22.06	21.78	
		1	49	22.02	22.14	21.88	
	16QAM	25	0	21.16	21.21	21.04	
		25	13	21.19	21.35	21.13	
		25	25	21.21	21.3	21.06	
		50	0	21.1	21.15	20.94	

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D	Marine	DD :	DD " 1	Channel	Channel	Channel
Bandwidth	Modulation	RB size	RB offset	20825	21100	21375
		1	0	23.45	23.51	23.36
		1	38	23.34	23.36	23.21
		1	74	23.32	23.38	23.25
	QPSK	36	0	22.57	22.66	22.53
		36	18	22.6	22.7	22.5
		36	39	22.62	22.68	22.51
45MU-		75	0	22.46	22.48	22.42
15MHz		1	0	22.34	22.39	22.2
		1	38	22.22	22.26	22.09
		1	74	22.29	22.34	22.19
	16QAM	36	0	21.43	21.41	21.35
		36	18	21.46	21.55	21.44
		36	39	21.48	21.5	21.37
		75	0	21.37	21.35	21.25
Randwidth	Modulation	PR siza	RR offset	Channel	Channel	Channel
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
Bandwidth	Modulation	RB size	RB offset			
Bandwidth	Modulation			20850	21100	21350
Bandwidth	Modulation	1	0	20850 23.61	21100 23.64	21350 23.52
Bandwidth	Modulation QPSK	1	0 50	20850 23.61 23.5	21100 23.64 23.49	21350 23.52 23.37
Bandwidth		1 1 1	0 50 99	20850 23.61 23.5 23.48	21100 23.64 23.49 23.51	21350 23.52 23.37 23.41
Bandwidth		1 1 1 50	0 50 99 0	20850 23.61 23.5 23.48 22.73	21100 23.64 23.49 23.51 22.79	21350 23.52 23.37 23.41 22.69
		1 1 1 50 50	0 50 99 0 25	20850 23.61 23.5 23.48 22.73 22.76	21100 23.64 23.49 23.51 22.79 22.83	21350 23.52 23.37 23.41 22.69 22.66
Bandwidth 20MHz		1 1 1 50 50 50	0 50 99 0 25 50	20850 23.61 23.5 23.48 22.73 22.76 22.78	21100 23.64 23.49 23.51 22.79 22.83 22.81	21350 23.52 23.37 23.41 22.69 22.66 22.67
		1 1 1 50 50 50 100	0 50 99 0 25 50	20850 23.61 23.5 23.48 22.73 22.76 22.78 22.62	21100 23.64 23.49 23.51 22.79 22.83 22.81 22.61	21350 23.52 23.37 23.41 22.69 22.66 22.67 22.58
		1 1 1 50 50 50 100	0 50 99 0 25 50 0	20850 23.61 23.5 23.48 22.73 22.76 22.78 22.62 22.5	21100 23.64 23.49 23.51 22.79 22.83 22.81 22.61 22.52	21350 23.52 23.37 23.41 22.69 22.66 22.67 22.58 22.36
		1 1 1 50 50 50 100 1	0 50 99 0 25 50 0 50	20850 23.61 23.5 23.48 22.73 22.76 22.78 22.62 22.5 22.38	21100 23.64 23.49 23.51 22.79 22.83 22.81 22.61 22.52 22.39	21350 23.52 23.37 23.41 22.69 22.66 22.67 22.58 22.36 22.25
	QPSK	1 1 1 50 50 50 100 1 1	0 50 99 0 25 50 0 0 50	20850 23.61 23.5 23.48 22.73 22.76 22.78 22.62 22.5 22.38 22.45	21100 23.64 23.49 23.51 22.79 22.83 22.81 22.61 22.52 22.39 22.47	21350 23.52 23.37 23.41 22.69 22.66 22.67 22.58 22.36 22.25 22.35
	QPSK	1 1 1 50 50 50 100 1 1 1 1 50	0 50 99 0 25 50 0 0 50 99	20850 23.61 23.5 23.48 22.73 22.76 22.78 22.62 22.5 22.38 22.45 21.59	21100 23.64 23.49 23.51 22.79 22.83 22.81 22.61 22.52 22.39 22.47 21.54	21350 23.52 23.37 23.41 22.69 22.66 22.67 22.58 22.36 22.25 22.35 21.51

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5. LTE Band 12 Conducted Power Test Verdict:

L1	TE FDD Ba	nd 12		Conducted Power(dBm)			
Donalis i dela	Ma dulatian	RB	RB	Channel	Channel	Channel	
Bandwidth	Modulation	size	offset	23017	23095	23173	
		1	0	22.13	22.35	22.08	
		1	3	22.01	22.23	21.96	
		1	5	22.02	22.24	21.95	
	QPSK	3	0	21.28	21.53	21.26	
		3	2	21.31	21.5	21.24	
		3	3	21.25	21.54	21.25	
1.4MHz		6	0	21.15	21.4	21.11	
1.4111112		1	0	21	21.2	20.96	
		1	3	20.89	21.09	20.83	
		1	5	20.98	21.17	20.91	
	16QAM	3	0	20.05	20.25	20.12	
		3	2	20.17	20.38	20.23	
		3	3	20.16	20.35	20.15	
		6	0	19.98	20.22	19.93	
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	
Balluwiutii	Modulation	size	offset	23025	23095	23165	
		1	0	22.56	22.71	22.34	
		1	7	22.44	22.59	22.22	
		1	14	22.45	22.6	22.21	
	QPSK	8	0	21.71	21.89	21.52	
		8	4	21.74	21.86	21.5	
		8	7	21.68	21.9	21.51	
3MHz		15	0	21.58	21.76	21.37	
SIVITIZ		1	0	21.43	21.56	21.22	
		1	7	21.32	21.45	21.09	
		1	14	21.41	21.53	21.17	
	16QAM	8	0	20.48	20.61	20.38	
		8	4	20.6	20.74	20.49	
		8	7	20.59	20.71	20.41	
		15	0	20.41	20.58	20.19	

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Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Bandwidth	Wodulation	ND SIZE	offset	23035	23095	23155
		1	0	22.83	22.76	22.71
		1	13	22.71	22.64	22.59
		1	24	22.72	22.65	22.58
	QPSK	12	0	21.98	21.94	21.89
		12	6	22.01	21.91	21.87
		12	13	21.95	21.95	21.88
ENALL-		25	0	21.85	21.81	21.74
5MHz		1	0	21.7	21.61	21.59
		1	13	21.59	21.5	21.46
		1	24	21.68	21.58	21.54
	16QAM	12	0	20.75	20.66	20.75
		12	6	20.87	20.79	20.86
		12	13	20.86	20.76	20.78
		25	0	20.68	20.63	20.56
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danuwium	IVIOGUIALIOIT	KD SIZE	offset	23060	23095	23130
		1	0	23.05	23.12	22.04
		•	U	20.00	25.12	23.01
		1	25	22.93	23	22.89
	QPSK	1	25	22.93	23	22.89
	QPSK	1	25 49	22.93 22.94	23 23.01	22.89 22.88
	QPSK	1 1 25	25 49 0	22.93 22.94 21.16	23 23.01 21.27	22.89 22.88 21.24
40MH~	QPSK	1 1 25 25	25 49 0 13	22.93 22.94 21.16 21.05	23 23.01 21.27 21.08	22.89 22.88 21.24 21.12
10MHz	QPSK	1 1 25 25 25	25 49 0 13 25	22.93 22.94 21.16 21.05 21.01	23 23.01 21.27 21.08 21	22.89 22.88 21.24 21.12 21.09
10MHz	QPSK	1 1 25 25 25 25 50	25 49 0 13 25	22.93 22.94 21.16 21.05 21.01 21.03	23 23.01 21.27 21.08 21 21.14	22.89 22.88 21.24 21.12 21.09 21.09
10MHz	QPSK	1 1 25 25 25 25 50 1	25 49 0 13 25 0	22.93 22.94 21.16 21.05 21.01 21.03 21.92	23 23.01 21.27 21.08 21 21.14 21.97	22.89 22.88 21.24 21.12 21.09 21.09 21.89
10MHz	QPSK 16QAM	1 1 25 25 25 25 50 1	25 49 0 13 25 0 0 25	22.93 22.94 21.16 21.05 21.01 21.03 21.92 21.81	23 23.01 21.27 21.08 21 21.14 21.97 21.86	22.89 22.88 21.24 21.12 21.09 21.09 21.89 21.76
10MHz		1 1 25 25 25 50 1 1	25 49 0 13 25 0 0 25 49	22.93 22.94 21.16 21.05 21.01 21.03 21.92 21.81 21.9	23 23.01 21.27 21.08 21 21.14 21.97 21.86 21.94	22.89 22.88 21.24 21.12 21.09 21.09 21.89 21.76 21.84
10MHz		1 1 25 25 25 50 1 1 1 25	25 49 0 13 25 0 0 25 49	22.93 22.94 21.16 21.05 21.01 21.03 21.92 21.81 21.9 20.97	23 23.01 21.27 21.08 21 21.14 21.97 21.86 21.94 21.02	22.89 22.88 21.24 21.12 21.09 21.09 21.89 21.76 21.84 21.05

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6. LTE Band 17 Conducted Power Test Verdict:

Lī	TE FDD Ba	Conducted Power(dBm)				
Pandwidth.	Modulation	RB	RB	Channel	Channel	Channel
Bandwidth	Modulation	size	offset	23755	23790	23825
		1	0	22.84	22.96	22.75
		1	13	22.69	22.83	22.6
		1	24	22.66	22.81	22.56
	QPSK	12	0	22.01	22.12	21.9
		12	6	21.96	22.13	21.86
		12	13	21.95	22.14	21.87
5MHz		25	0	21.9	21.97	21.76
SIVIFIZ		1	0	21.72	21.79	21.62
		1	13	21.57	21.66	21.49
		1	24	21.67	21.74	21.54
	16QAM	12	0	20.76	20.86	20.81
		12	6	20.87	20.75	20.86
		12	13	20.85	20.81	20.77
		25	0	20.72	19.94	20.53
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel
Ballawiatii	Woddiation	size	offset	23780	23790	23800
		1	0	23.02	23.15	22.96
		1	25	22.9	23	22.83
		1	49	22.88	23.02	22.81
	QPSK	25	0	21.24	21.32	21.27
		25	13	21.15	21.25	21.18
		25	25	21.05	21.11	21.02
10MHz		50	0	21.12	21.2	21.15
1 OIVII 12		1	0	21.89	22	21.85
		1	25	21.75	21.89	21.69
		1	49	21.87	21.98	21.8
	16QAM	25	0	20.95	21.05	21
		25	13	21.06	20.97	21.11
		25	25	21.07	21.07	21.03
		50	0	20.96	20.17	20.8

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7. LTE Band 25 Conducted Power Test Verdict:

Lī	ΓE FDD Ba	nd 25		Conducted Power(dBm)			
Donalis dela	Madulatian	RB	RB	Channel	Channel	Channel	
Bandwidth	Modulation	size	offset	26047	26365	26683	
		1	0	22.63	22.51	22.63	
		1	3	22.48	22.38	22.48	
		1	5	22.45	22.36	22.44	
	QPSK	3	0	21.8	21.67	21.78	
		3	2	21.75	21.68	21.74	
		3	3	21.74	21.69	21.75	
4 4844-		6	0	21.69	21.52	21.64	
1.4MHz		1	0	21.51	21.34	21.5	
		1	3	21.36	21.21	21.37	
		1	5	21.46	21.29	21.42	
	16QAM	3	0	20.55	20.41	20.69	
		3	2	20.66	20.3	20.74	
		3	3	20.64	20.36	20.65	
		6	0	20.51	19.49	20.41	
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	
Danawidin	Modulation	size	offset	26055	26365	26675	
		1	0	22.63	22.74	22.78	
		1	7	22.48	22.61	22.63	
		1	14	22.45	22.59	22.59	
	QPSK	8	0	21.8	21.9	21.93	
		8	4	21.75	21.91	21.89	
		8	7	21.74	21.92	21.9	
3MHz		15	0	21.69	21.75	21.79	
Siviliz		1	0	21.51	21.57	21.65	
		1	7	21.36	21.44	21.52	
		1	14	21.46	21.52	21.57	
	16QAM	8	0	20.55	20.64	20.84	
		8	4	20.66	20.53	20.89	
		8	7	20.64	20.59	20.8	
		15	0	20.51	19.72	20.56	

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Donahui akh	Modulation	RB size	RB	Channel	Channel	Channel
Bandwidth	Modulation	KD SIZE	offset	26065	26365	26665
		1	0	22.83	22.88	22.94
		1	13	22.68	22.76	22.83
		1	24	22.64	22.73	22.82
	QPSK	12	0	21.98	22.02	22.11
		12	6	21.92	22.01	21.99
		12	13	21.9	22.02	21.99
5841I-		25	0	21.85	21.84	21.98
5MHz		1	0	21.68	21.74	21.8
		1	13	21.5	21.63	21.65
		1	24	21.64	21.69	21.72
	16QAM	12	0	20.72	20.81	20.97
		12	6	20.83	20.75	21.09
		12	13	20.85	20.76	20.95
		25	0	20.71	19.96	20.66
Pandwidth	Modulation	DD cizo	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	RB offset	Channel 26090	Channel 26365	Channel 26640
Bandwidth	Modulation	RB size				
Bandwidth	Modulation		offset	26090	26365	26640
Bandwidth	Modulation	1	offset 0	26090 23.12	26365 23.08	26640 23.05
Bandwidth	Modulation QPSK	1	offset 0 25	26090 23.12 23	26365 23.08 22.93	26640 23.05 22.92
Bandwidth		1 1 1	offset 0 25 49	26090 23.12 23 22.98	26365 23.08 22.93 22.95	26640 23.05 22.92 22.9
Bandwidth		1 1 1 25	offset 0 25 49 0	26090 23.12 23 22.98 22.31	26365 23.08 22.93 22.95 22.23	26640 23.05 22.92 22.9 22.21
		1 1 1 25 25	offset 0 25 49 0 13	26090 23.12 23 22.98 22.31 22.27	26365 23.08 22.93 22.95 22.23 22.27	26640 23.05 22.92 22.9 22.21 22.14
Bandwidth 10MHz		1 1 1 25 25 25	0 25 49 0 13 25	26090 23.12 23 22.98 22.31 22.27 22.26	26365 23.08 22.93 22.95 22.23 22.27 22.24	26640 23.05 22.92 22.9 22.21 22.14 22.13
		1 1 1 25 25 25 25 50	offset 0 25 49 0 13 25 0	26090 23.12 23 22.98 22.31 22.27 22.26 22.19	26365 23.08 22.93 22.95 22.23 22.27 22.24 22.11	26640 23.05 22.92 22.9 22.21 22.14 22.13 22.09
		1 1 1 25 25 25 50 1	0 25 49 0 13 25 0	26090 23.12 23 22.98 22.31 22.27 22.26 22.19 21.99	26365 23.08 22.93 22.95 22.23 22.27 22.24 22.11 21.93	26640 23.05 22.92 22.9 22.21 22.14 22.13 22.09 21.94
		1 1 1 25 25 25 25 50 1	offset 0 25 49 0 13 25 0 0 25	26090 23.12 23 22.98 22.31 22.27 22.26 22.19 21.99 21.85	26365 23.08 22.93 22.95 22.23 22.27 22.24 22.11 21.93 21.82	26640 23.05 22.92 22.9 22.21 22.14 22.13 22.09 21.94 21.78
	QPSK	1 1 1 25 25 25 50 1 1	offset 0 25 49 0 13 25 0 0 25 49	26090 23.12 23 22.98 22.31 22.27 22.26 22.19 21.99 21.85 21.97	26365 23.08 22.93 22.95 22.23 22.27 22.24 22.11 21.93 21.82 21.91	26640 23.05 22.92 22.9 22.21 22.14 22.13 22.09 21.94 21.78 21.89
	QPSK	1 1 1 25 25 25 25 50 1 1 1 25	offset 0 25 49 0 13 25 0 0 25 49 0	26090 23.12 23 22.98 22.31 22.27 22.26 22.19 21.99 21.85 21.97 21.05	26365 23.08 22.93 22.95 22.23 22.27 22.24 22.11 21.93 21.82 21.91 20.98	26640 23.05 22.92 22.9 22.21 22.14 22.13 22.09 21.94 21.78 21.89 21.09

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Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Bandwidth	Woddiation	ND SIZE	offset	26115	26365	26615
		1	0	23.12	23.14	23.28
		1	38	22.97	23.02	23.17
		1	74	22.93	22.99	23.16
	QPSK	36	0	22.27	22.28	22.45
		36	18	22.21	22.27	22.33
		36	39	22.19	22.28	22.33
15MHz		75	0	22.14	22.1	22.32
ISMINZ		1	0	21.97	22	22.14
		1	38	21.79	21.89	21.99
		1	74	21.93	21.95	22.06
	16QAM	36	0	21.01	21.07	21.31
		36	18	21.12	21.01	21.43
		36	39	21.14	21.02	21.29
		75	0	21	20.22	21
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Balluwiutii	Modulation	IVD SIZE	offset	26140	26365	26590
		1	0	23.35	23.54	23.41
		4	F 0	23.2	23.42	23.3
		1	50	23.2	20.72	_0.0
		1	99	23.16	23.39	23.29
	QPSK					
	QPSK	1	99	23.16	23.39	23.29
	QPSK	1 50	99	23.16 22.5	23.39 22.68	23.29 22.58
20MU~	QPSK	1 50 50	99 0 25	23.16 22.5 22.44	23.39 22.68 22.67	23.29 22.58 22.46
20MHz	QPSK	1 50 50 50	99 0 25 50	23.16 22.5 22.44 22.42	23.39 22.68 22.67 22.68	23.29 22.58 22.46 22.46
20MHz	QPSK	1 50 50 50 100	99 0 25 50 0	23.16 22.5 22.44 22.42 22.37	23.39 22.68 22.67 22.68 22.5	23.29 22.58 22.46 22.46 22.45
20MHz	QPSK	1 50 50 50 100	99 0 25 50 0	23.16 22.5 22.44 22.42 22.37 22.2	23.39 22.68 22.67 22.68 22.5 22.4	23.29 22.58 22.46 22.46 22.45 22.27
20MHz	QPSK 16QAM	1 50 50 50 100 1	99 0 25 50 0 0 50	23.16 22.5 22.44 22.42 22.37 22.2 22.02	23.39 22.68 22.67 22.68 22.5 22.4 22.29	23.29 22.58 22.46 22.46 22.45 22.27 22.12
20MHz		1 50 50 50 100 1 1	99 0 25 50 0 0 50 99	23.16 22.5 22.44 22.42 22.37 22.2 22.02 22.16	23.39 22.68 22.67 22.68 22.5 22.4 22.29 22.35	23.29 22.58 22.46 22.46 22.45 22.27 22.12 22.19
20MHz		1 50 50 50 100 1 1 1 50	99 0 25 50 0 0 50 99	23.16 22.5 22.44 22.42 22.37 22.2 22.02 22.16 21.24	23.39 22.68 22.67 22.68 22.5 22.4 22.29 22.35 21.47	23.29 22.58 22.46 22.46 22.45 22.27 22.12 22.19 21.44

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8. LTE Band 26 Conducted Power Test Verdict

Lī	TE FDD Ba	Conduc	Conducted Power(dBm)			
Dan duvidth	Madulation	RB	RB	Channel	Channel	Channel
Bandwidth	Modulation	size	offset	26697	26865	27033
		1	0	22.58	22.71	22.72
		1	3	22.43	22.58	22.57
		1	5	22.4	22.56	22.53
	QPSK	3	0	21.75	21.87	21.87
		3	2	21.7	21.88	21.83
		3	3	21.69	21.89	21.84
1.4MHz		6	0	21.64	21.72	21.73
1.4111712		1	0	21.46	21.54	21.59
		1	3	21.31	21.41	21.46
		1	5	21.41	21.49	21.51
	16QAM	3	0	20.5	20.61	20.78
		3	2	20.61	20.5	20.83
		3	3	20.59	20.56	20.74
		6	0	20.46	19.69	20.5
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel
Danawidin	Modulation	size	offset	26705	26865	27025
		1	0	22.76	22.83	22.88
		1	7	22.61	22.71	22.77
		1	14	22.57	22.68	22.76
	QPSK	8	0	21.91	21.97	22.05
		8	4	21.85	21.96	21.93
		8	7	21.83	21.97	21.93
3MHz		15	0	21.78	21.79	21.92
SIVIFIZ		1	0	21.61	21.69	21.74
		1	7	21.43	21.58	21.59
		1	14	21.57	21.64	21.66
	16QAM	8	0	20.65	20.76	20.91
		8	4	20.76	20.7	21.03
		8	7	20.78	20.71	20.89
		15	0	20.64	19.91	20.6

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Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
			offset	26715	26865	27015
5MHz	QPSK	1	0	23.05	23.04	23.13
		1	13	22.9	22.92	23.02
		1	24	22.86	22.89	23.01
		12	0	22.2	22.18	22.3
		12	6	22.14	22.17	22.18
		12	13	22.12	22.18	22.18
		25	0	22.07	22	22.17
	16QAM	1	0	21.9	21.9	21.99
		1	13	21.72	21.79	21.84
		1	24	21.86	21.85	21.91
		12	0	20.94	20.97	21.16
		12	6	21.05	20.91	21.28
		12	13	21.07	20.92	21.14
		25	0	20.93	20.12	20.85
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
			offset	26740	26865	26990
		1	0	23.21	23.15	23.25
			_			
		1	25	23.06	23.03	23.14
		1	25 49	23.06 23.02	23.03 23	23.14 23.13
	QPSK					
	QPSK	1	49	23.02	23	23.13
	QPSK	1 25	49 0	23.02 22.36	23 22.29	23.13 22.42
40001-	QPSK	1 25 25	49 0 13	23.02 22.36 22.3	23 22.29 22.28	23.13 22.42 22.3
10MHz	QPSK	1 25 25 25	49 0 13 25	23.02 22.36 22.3 22.28	23 22.29 22.28 22.29	23.13 22.42 22.3 22.3
10MHz	QPSK	1 25 25 25 25 50	49 0 13 25 0	23.02 22.36 22.3 22.28 22.23	23 22.29 22.28 22.29 22.11	23.13 22.42 22.3 22.3 22.29
10MHz	QPSK	1 25 25 25 50 1	49 0 13 25 0	23.02 22.36 22.3 22.28 22.23 22.06	23 22.29 22.28 22.29 22.11 22.01	23.13 22.42 22.3 22.3 22.29 22.11
10MHz	QPSK 16QAM	1 25 25 25 50 1	49 0 13 25 0 0 25	23.02 22.36 22.3 22.28 22.23 22.06 21.88	23 22.29 22.28 22.29 22.11 22.01 21.9	23.13 22.42 22.3 22.3 22.29 22.11 21.96
10MHz		1 25 25 25 50 1 1	49 0 13 25 0 0 25 49	23.02 22.36 22.3 22.28 22.23 22.06 21.88 22.02	23 22.29 22.28 22.29 22.11 22.01 21.9 21.96	23.13 22.42 22.3 22.3 22.29 22.11 21.96 22.03
10MHz		1 25 25 25 50 1 1 1 25	49 0 13 25 0 0 25 49	23.02 22.36 22.3 22.28 22.23 22.06 21.88 22.02 21.1	23 22.29 22.28 22.29 22.11 22.01 21.9 21.96 21.08	23.13 22.42 22.3 22.3 22.29 22.11 21.96 22.03 21.28

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Dan day di	Mandada Can	DD -:	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	26765	26865	26965
		1	0	23.35	23.56	23.4
		1	38	23.2	23.44	23.29
		1	74	23.16	23.41	23.28
	QPSK	36	0	22.5	22.7	22.57
		36	18	22.44	22.69	22.45
		36	39	22.42	22.7	22.45
45MU=		75	0	22.37	22.52	22.44
15MHz		1	0	22.2	22.42	22.26
		1	38	22.02	22.31	22.11
		1	74	22.16	22.37	22.18
	16QAM	36	0	21.24	21.49	21.43
		36	18	21.35	21.43	21.55
		36	39	21.37	21.44	21.41
		75	0	21.23	20.64	21.12

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9. LTE Band 30 Conducted Power Test Verdict

LTE FDD Band 30				Conducted Power(dBm)		
Donalis i dili	Madulatian	RB	RB	Channel	Channel	Channel
Bandwidth	Modulation	size	offset	27685	27710	27735
		1	0	22.12	22.31	22.39
		1	13	22	22.19	22.27
		1	24	22.01	22.2	22.26
	QPSK	12	0	21.27	21.49	21.57
		12	6	21.3	21.46	21.55
		12	13	21.24	21.5	21.56
ENALL-		25	0	21.14	21.36	21.42
5MHz		1	0	20.99	21.16	21.27
		1	13	20.88	21.05	21.14
		1	24	20.97	21.13	21.22
	16QAM	12	0	20.04	20.21	20.43
		12	6	20.16	20.34	20.54
		12	13	20.15	20.31	20.46
		25	0	19.97	20.18	20.24
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel
Ballawiatii	Modulation	size	offset	27710	27710	27710
		1	0	22.68	22.68	22.68
		1	25	22.56	22.56	22.56
		1	49	22.57	22.57	22.57
	QPSK	25	0	21.27	21.27	21.27
		25	13	21.08	21.08	21.08
		25	25	21	21	21
10MHz		50	0	21.14	21.14	21.14
TOWNIZ		1	0	21.53	21.53	21.53
		1	25	21.42	21.42	21.42
		1	49	21.5	21.5	21.5
	16QAM	25	0	20.58	20.58	20.58
		25	13	20.71	20.71	20.71
		25	25	20.68	20.68	20.68
		50	0	20.55	20.55	20.55

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10. LTE Band 41 Conducted Power Test Verdict

LTE TDD Band 41				Conducted Power(dBm)		
Donalis i dela	Ma dulatian	RB	RB	Channel	Channel	Channel
Bandwidth	Modulation	size	offset	39675	40620	41565
		1	0	22.38	22.46	22.32
		1	13	22.23	22.34	22.21
		1	24	22.19	22.31	22.2
	QPSK	12	0	21.53	21.6	21.49
		12	6	21.47	21.59	21.37
		12	13	21.45	21.6	21.37
EMU-		25	0	21.4	21.42	21.36
5MHz		1	0	21.23	21.32	21.18
		1	13	21.05	21.21	21.03
		1	24	21.19	21.27	21.1
	16QAM	12	0	20.27	20.39	20.35
		12	6	20.38	20.33	20.47
		12	13	20.4	20.34	20.33
		25	0	20.26	19.54	20.04
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel
Ballawiatii	Modulation	size	offset	39700	40620	41540
		1	0	22.58	22.73	22.56
		1	25	22.43	22.61	22.45
		1	49	22.39	22.58	22.44
	QPSK	25	0	21.73	21.87	21.73
		25	13	21.67	21.86	21.61
		25	25	21.65	21.87	21.61
10MHz		50	0	21.6	21.69	21.6
TOWNIZ		1	0	21.43	21.59	21.42
		1	25	21.25	21.48	21.27
		1	49	21.39	21.54	21.34
	16QAM	25	0	20.47	20.66	20.59
		25	13	20.58	20.6	20.71
		25	25	20.6	20.61	20.57
		50	0	20.46	19.81	20.28

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Dan duri déla	Madulatian	DD sins	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	39725	40620	41515
		1	0	22.85	22.93	22.84
		1	38	22.7	22.81	22.73
		1	74	22.66	22.78	22.72
	QPSK	36	0	22	22.07	22.01
		36	18	21.94	22.06	21.89
		36	39	21.92	22.07	21.89
45841-		75	0	21.87	21.89	21.88
15MHz		1	0	21.7	21.79	21.7
		1	38	21.52	21.68	21.55
		1	74	21.66	21.74	21.62
	16QAM	36	0	20.74	20.86	20.87
		36	18	20.85	20.8	20.99
		36	39	20.87	20.81	20.85
		75	0	20.73	20.01	20.56
Pandwidth	Modulation	DP cizo	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	RB offset	Channel 39750	Channel 40620	Channel 41490
Bandwidth	Modulation	RB size				
Bandwidth	Modulation		offset	39750	40620	41490
Bandwidth	Modulation	1	offset 0	39750 23.13	40620 23.21	41490 23.12
Bandwidth	Modulation QPSK	1	offset 0 50	39750 23.13 22.98	40620 23.21 23.09	41490 23.12 23.01
Bandwidth		1 1 1	0 50 99	39750 23.13 22.98 22.94	40620 23.21 23.09 23.06	41490 23.12 23.01 23
Bandwidth		1 1 1 50	0 50 99 0	39750 23.13 22.98 22.94 22.28	40620 23.21 23.09 23.06 22.35	41490 23.12 23.01 23 22.29
		1 1 1 50 50	offset 0 50 99 0 25	39750 23.13 22.98 22.94 22.28 22.22	40620 23.21 23.09 23.06 22.35 22.34	41490 23.12 23.01 23 22.29 22.17
Bandwidth 20MHz		1 1 1 50 50 50	0 50 99 0 25 50	39750 23.13 22.98 22.94 22.28 22.22 22.2	40620 23.21 23.09 23.06 22.35 22.34 22.35	41490 23.12 23.01 23 22.29 22.17 22.17
		1 1 1 50 50 50 100	0 50 99 0 25 50 0	39750 23.13 22.98 22.94 22.28 22.22 22.2 22.15	40620 23.21 23.09 23.06 22.35 22.34 22.35 22.17	41490 23.12 23.01 23 22.29 22.17 22.17 22.16
		1 1 1 50 50 50 100	0 50 99 0 25 50 0	39750 23.13 22.98 22.94 22.28 22.22 22.2 22.15 21.98	40620 23.21 23.09 23.06 22.35 22.34 22.35 22.17 22.07	41490 23.12 23.01 23 22.29 22.17 22.17 22.16 21.98
		1 1 1 50 50 50 100 1	0 50 99 0 25 50 0 0 50	39750 23.13 22.98 22.94 22.28 22.22 22.2 22.15 21.98 21.8	40620 23.21 23.09 23.06 22.35 22.34 22.35 22.17 22.07 21.96	41490 23.12 23.01 23 22.29 22.17 22.17 22.16 21.98 21.83
	QPSK	1 1 1 50 50 50 100 1 1	offset 0 50 99 0 25 50 0 50 99	39750 23.13 22.98 22.94 22.28 22.22 22.2 22.15 21.98 21.8 21.94	40620 23.21 23.09 23.06 22.35 22.34 22.35 22.17 22.07 21.96 22.02	41490 23.12 23.01 23 22.29 22.17 22.17 22.16 21.98 21.83 21.9
	QPSK	1 1 1 50 50 50 100 1 1 1 50	0 50 99 0 25 50 0 50 99 0	39750 23.13 22.98 22.94 22.28 22.22 22.2 22.15 21.98 21.8 21.94 21.02	40620 23.21 23.09 23.06 22.35 22.34 22.35 22.17 22.07 21.96 22.02 21.14	41490 23.12 23.01 23 22.29 22.17 22.17 22.16 21.98 21.83 21.9 21.15

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11. LTE Band 66 Conducted Power Test Verdict

LTE FDD Band 66				Conducted Power(dBm)		
Dan desidable	Madulatian	RB	RB	Channel	Channel	Channel
Bandwidth	Modulation	size	offset	131979	132322	132665
		1	0	22.51	22.65	22.33
		1	3	22.38	22.55	22.21
		1	5	22.4	22.54	22.2
	QPSK	3	0	21.68	21.83	21.48
		3	2	21.69	21.82	21.45
		3	3	21.7	21.84	21.46
1.4MHz		6	0	21.56	21.71	21.35
1.4111712		1	0	21.38	21.5	21.22
		1	3	21.23	21.39	21.09
		1	5	21.36	21.47	21.21
	16QAM	3	0	20.45	20.58	20.4
		3	2	20.53	20.68	20.43
		3	3	20.55	20.69	20.37
		6	0	20.43	20.59	20.22
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel
Ballawiatii	Modulation	size	offset	131987	12322	132657
		1	0	22.61	22.72	22.4
		1	7	22.48	22.62	22.28
		1	14	22.5	22.61	22.27
	QPSK	8	0	21.78	21.9	21.55
		8	4	21.79	21.89	21.52
		8	7	21.8	21.91	21.53
3MHz		15	0	21.66	21.78	21.42
Siviliz		1	0	21.48	21.57	21.29
		1	7	21.33	21.46	21.16
		1	14	21.46	21.54	21.28
	16QAM	8	0	20.55	20.65	20.47
		8	4	20.63	20.75	20.5
		8	7	20.65	20.76	20.44
		15	0	20.53	20.66	20.29

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Pandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Bandwidth	Modulation	RD SIZE	offset	131997	132322	132647
		1	0	22.73	22.81	22.64
		1	13	22.6	22.71	22.52
		1	24	22.62	22.7	22.51
	QPSK	12	0	21.9	21.99	21.79
		12	6	21.91	21.98	21.76
		12	13	21.92	22	21.77
ENALL-		25	0	21.78	21.87	21.66
5MHz		1	0	21.6	21.66	21.53
		1	13	21.45	21.55	21.4
		1	24	21.58	21.63	21.52
	16QAM	12	0	20.67	20.74	20.71
		12	6	20.75	20.84	20.74
		12	13	20.77	20.85	20.68
		25	0	20.65	20.75	20.53
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danawiath	Modulation RB s	KD SIZE				
			offset	132022	132322	132622
		1	offset 0	132022 22.95	132322 23.02	132622 22.84
		1	0	22.95	23.02	22.84
	QPSK	1	0 25	22.95 22.82	23.02 22.92	22.84 22.72
		1 1 1	0 25 49	22.95 22.82 22.84	23.02 22.92 22.91	22.84 22.72 22.71
		1 1 1 25	0 25 49 0	22.95 22.82 22.84 22.12	23.02 22.92 22.91 22.2	22.84 22.72 22.71 21.99
40MU-		1 1 1 25 25	0 25 49 0 13	22.95 22.82 22.84 22.12 22.13	23.02 22.92 22.91 22.2 22.19	22.84 22.72 22.71 21.99 21.96
10MHz		1 1 1 25 25 25	0 25 49 0 13 25	22.95 22.82 22.84 22.12 22.13 22.14	23.02 22.92 22.91 22.2 22.19 22.21	22.84 22.72 22.71 21.99 21.96 21.97
10MHz		1 1 1 25 25 25 25 50	0 25 49 0 13 25	22.95 22.82 22.84 22.12 22.13 22.14 22	23.02 22.92 22.91 22.2 22.19 22.21 22.08	22.84 22.72 22.71 21.99 21.96 21.97 21.86
10MHz		1 1 1 25 25 25 25 50	0 25 49 0 13 25 0	22.95 22.82 22.84 22.12 22.13 22.14 22 21.82	23.02 22.92 22.91 22.2 22.19 22.21 22.08 21.87	22.84 22.72 22.71 21.99 21.96 21.97 21.86 21.73
10MHz		1 1 1 25 25 25 25 50 1	0 25 49 0 13 25 0 0	22.95 22.82 22.84 22.12 22.13 22.14 22 21.82 21.67	23.02 22.92 22.91 22.2 22.19 22.21 22.08 21.87 21.76	22.84 22.72 22.71 21.99 21.96 21.97 21.86 21.73 21.6
10MHz	QPSK	1 1 1 25 25 25 50 1 1	0 25 49 0 13 25 0 0 25 49	22.95 22.82 22.84 22.12 22.13 22.14 22 21.82 21.67 21.8	23.02 22.92 22.91 22.2 22.19 22.21 22.08 21.87 21.76 21.84	22.84 22.72 22.71 21.99 21.96 21.97 21.86 21.73 21.6 21.72
10MHz	QPSK	1 1 1 25 25 25 25 50 1 1 1 25	0 25 49 0 13 25 0 0 25 49	22.95 22.82 22.84 22.12 22.13 22.14 22 21.82 21.67 21.8 20.89	23.02 22.92 22.91 22.2 22.19 22.21 22.08 21.87 21.76 21.84 20.95	22.84 22.72 22.71 21.99 21.96 21.97 21.86 21.73 21.6 21.72 20.91

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Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danawiath	iviodulation	RD SIZE	offset	132047	132322	132597
		1	0	23.16	23.27	23.1
		1	38	23.03	23.17	22.98
		1	74	23.05	23.16	22.97
	QPSK	36	0	22.33	22.45	22.25
		36	18	22.34	22.44	22.22
		36	39	22.35	22.46	22.23
45MU-		75	0	22.21	22.33	22.12
15MHz		1	0	22.03	22.12	21.99
		1	38	21.88	22.01	21.86
		1	74	22.01	22.09	21.98
	16QAM	36	0	21.1	21.2	21.17
		36	18	21.18	21.3	21.2
		36	39	21.2	21.31	21.14
		75	0	21.08	21.21	20.99
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danawiath	IVIOGUIALIOIT	KD SIZE	offset	132072	132322	132572
		1	0	23.25	23.37	23.22
		1	50	23.12	23.27	23.1
		1	99	23.14	23.26	23.09
	QPSK	50	0	22.42	22.55	22.37
		50	25	22.43	22.54	22.34
		50	50	22.44	22.56	22.35
20MHz		100	0	22.3	22.43	22.24
ZUIVITIZ		1	0	22.12	22.22	22.11
		1	50	21.97	22.11	21.98
		1	99	22.1	22.19	22.1
		1	0			
	16QAM	50	0	21.19	21.3	21.29
	16QAM					21.29 21.32
	16QAM	50	0	21.19	21.3	

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WIFI Conducted Power

WLAN 2.4GHz Band Conducted Power

802.11b Test mode conducted output power

Channal	Engguenay (MHz)	Output Po	
Channel	Frequency (MHz)	Ant. 0	Ant. 1
1	2412	15.14	14.68
6	2437	15.09	14.69
11	2462	15.18	14.85

802.11g Test mode conducted output power

Channel	Eraguanay (MHz)	Output Pov	wer(dBm)
Chamiei	Frequency (MHz)	Ant. 0	Ant. 1
1	2412	14.68	14.28
6	2437	14.27	14.16
11	2462	14.61	14.42

802.11n-20MHz Test mode conducted output power

Channel	Frequency	O	utput Power(d	Bm)
Chamiei	(MHz)	Ant. 0	Ant. 1	Ant. 0+1
1	2412	14.63	13.97	17.32
6	2437	14.37	13.92	17.16
11	2462	14.61	14.04	17.34

802.11n-40MHz Test mode conducted output power

Channel	Frequency	0	utput Power(d	Bm)
Chamie	(MHz)	Ant. 0	Ant. 1	Ant. 0+1
3	2422	14.39	14.38	17.40
6	2437	14.74	14.28	17.53
9	2452	14.70	14.19	17.46

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Conducted Power Test results of band U-NII-1 (5150 \sim 5250 MHz)

Frequency	802.11a mode Conducted Output Pow			ver (dBm)
(MHz)	Antenna 0		Antenna 1	
5180	14.81			7.26
5220	14.26			7.51
5240	14.11			7.19
Test Frequency	802.11n-HT20	mode Cond	ucted Output I	Power (dBm)
(MHz)	Antenna 0	Ante	enna 1	Total
5180	14.77	7	.18	15.47
5220	14.47	7	.54	15.27
5240	14.21	6	5.94	14.96
Test Frequency	802.11n-HT40	mode Cond	ucted Output I	Power (dBm)
(MHz)	Antenna 0	Antenna 1		Total
5190	16.23	5.97		16.62
5230	15.53	5.49		15.94
Test Frequency	802.11ac-VHT2	0 mode Con	ducted Output	Power (dBm)
(MHz)	Antenna 0	Anto	enna 1	Total
5180	15.01	6	5.95	15.64
5220	14.37	4	.96	14.84
5240	14.28	7	.04	15.03
Test Frequency	802.11ac-VHT4	0 mode Con	ducted Output	Power (dBm)
(MHz)	Antenna 0	Ant	enna 1	Total
5190	16.38	7	'.86	16.95
5230	15.75	4	.79	16.08
Test Frequency	802.11ac-VHT8	0 mode Con	ducted Output	Power (dBm)
(MHz)	Antenna 0	Ant	enna 1	Total
5210	15.22	3	3.13	15.48

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Conducted Power Test results of band U-NII-2A (5250 ~ 5350 MHz)

Frequency	802.11a mode Conducted Output Pow			wer (dBm)
(MHz)	Antenna 0		Antenna 1	
5260	14.62			7.36
5300	14.35			6.90
5320	14.05			6.75
Test Frequency	802.11n-HT20	mode Conduct	ted Output	Power (dBm)
(MHz)	Antenna 0	Anteni	na 1	Total
5260	14.34	6.54	4	15.01
5300	14.22	6.70	6	14.94
5320	13.84	6.40	0	14.56
Test Frequency	802.11n-HT40	mode Conduct	ted Output	Power (dBm)
(MHz)	Antenna 0	Anteni	na 1	Total
5270	15.17	5.59	9	15.62
5310	14.89 5.		9	15.34
Test Frequency	802.11ac-VHT20) mode Condu	cted Outpu	t Power (dBm)
(MHz)	Antenna 0	Anteni	na 1	Total
5260	14.39	6.19	9	15.00
5300	14.32	6.30	6	14.96
5320	14.13	6.48	8	14.82
Test Frequency	802.11ac-VHT40) mode Condu	cted Outpu	t Power (dBm)
(MHz)	Antenna 0	Anteni	na 1	Total
5270	15.13	5.34	4	15.56
5310	14.86	5.1′	7	15.30
Test Frequency	802.11ac-VHT80) mode Condu	cted Outpu	t Power (dBm)
(MHz)	Antenna 0	Antenr	na 1	Total
5290	14.64	4.86	5	15.07

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Conducted Power Test results of band U-NII-2C (5470 ~ 5725 MHz)

Frequency	802.11a mode Conducted Output Power (dBm)					
(MHz)	Antenna 0		Antenna 1			
5500	14.18			6.03		
5580	13.85			6.53		
5700	11.88			6.23		
Test Frequency	802.11n-HT20	mode Cond	ucted Output	Power (dBm)		
(MHz)	Antenna 0	Ante	enna 1	Total		
5500	14.19	6	.01	14.80		
5580	13.80	6	.50	14.54		
5700	13.81	6	.30	14.52		
Test Frequency	802.11n-HT40	mode Cond	ucted Output	Power (dBm)		
(MHz)	Antenna 0	Ante	enna 1	Total		
5510	15.68	6.21		16.14		
5590	16.44	6.21		16.83		
Test Frequency	802.11ac-VHT20) mode Con	ducted Outpu	cted Output Power (dBm)		
(MHz)	Antenna 0	Ante	enna 1	Total		
5500	13.96	6	.10	14.62		
5580	13.65	6	.46	14.41		
5700	14.90	6	.37	15.47		
Test Frequency	802.11ac-VHT40) mode Con	ducted Outpu	t Power (dBm)		
(MHz)	Antenna 0	Ante	enna 1	Total		
5510	15.72	2	.29	15.91		
5590	16.47	3	.39	16.68		
Test Frequency	802.11ac-VHT80 mode Conducted Output Power (dBm)					
(MHz)	Antenna 0	Anto	enna 1	Total		
5530	15.64	6	5.28	16.12		

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Conducted Power Test results of band U-NII-3 (5725 ~ 5850 MHz)

Frequency	802.11a mode Conducted Output Pow			ver (dBm)
(MHz)	Antenna 0		Antenna 1	
5745	14.80			6.18
5785	14.78			7.59
5825	15.60			8.17
Test Frequency	802.11n-HT20	mode Cond	ucted Output	Power (dBm)
(MHz)	Antenna 0	Ante	enna 1	Total
5745	14.56	5	.98	15.12
5785	14.64	7	.44	15.40
5825	15.47	7	.69	16.14
Test Frequency	802.11n-HT40	mode Cond	ucted Output	Power (dBm)
(MHz)	Antenna 0	Ante	enna 1	Total
5755	15.03	15.03 7.		15.75
5795	16.18	16.18 8.		16.92
Test Frequency	802.11ac-VHT2	0 mode Con	ducted Outpu	t Power (dBm)
(MHz)	Antenna 0	Ante	enna 1	Total
5745	13.54	5	.63	14.19
5785	14.51	7	.13	15.24
5825	15.47	7	.48	16.11
Test Frequency	Con	ducted Outp	out Power (dB	m)
(MHz)	Antenna 0	Ante	enna 1	Total
5755	15.16	7	.63	15.87
5795	16.16	8	.84	16.90
Test Frequency	Con	ducted Outp	out Power (dB	m)
(MHz)	Antenna 0	Ante	enna 1	Total
5775	14.16	7	.14	14.95

Note:

- 1. Per KDB248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion
- 2. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at lowest data rate
- 3. Per KDB248227 D01 v02r02, 802.11g /11n-HT20/11n-HT40 is not required. . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤1.2W/Kg. Thus the SAR can be excluded.

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7.5 Bluetooth Output Power

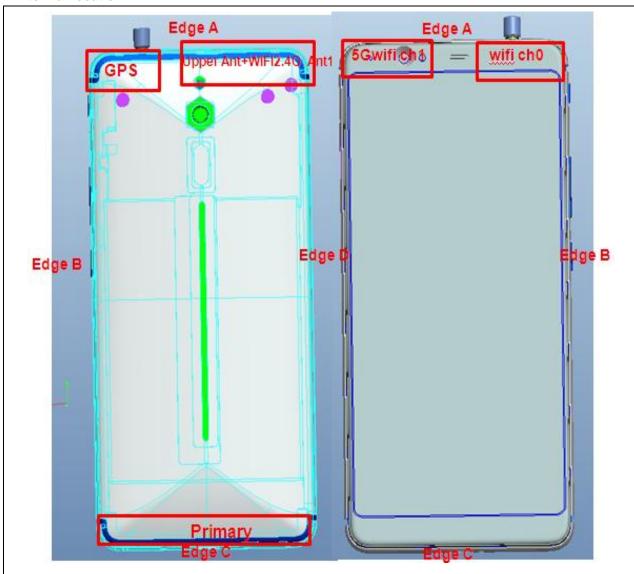
Channel	Frequency	BT3.	Average		
Channel	(MHz)	GFSK	π /4-DQPSK	8-DPSK	
CH 0	2402	13.87	13.61	13.60	
CH 39	2441	13.95	13.54	13.64	
CH 78	2480	14.04	13.87	13.82	
Channel	Frequency	BT4.0 Output	Power(dBm)Peak		
Chame	(MHz)	G	GFSK		
CH 0	2402	1			
CH 20	2442	1			
CH 39	2480	1	1.944		

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8. SAR test Exclusion and estimate SAR calculation:

Antenna Location:



The Body SAR measurement positions of each band are as below:

Antenna	Front	Back	Edge A	Edge B	Edge C	Edge D
WWAN Antenna Body-worn	Yes	Yes	No	No	No	No
WWAN Upper Antenna hotspot	Yes	Yes	Yes	Yes	No	Yes
WWAN Primary Antenna hotspot	Yes	Yes	No	Yes	Yes	Yes
WIFI Antenna Body-worn	Yes	Yes	No	No	No	No
WIFI Antenna hotspot	Yes	Yes	Yes	Yes	No	Yes

Note: According to KDB 941225 D06 v02r01, when antenna-to-edge>2.5cm, SAR is not required.

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9. Scaling Factor calculation

Upper Antenna

Operation Mode	Channel	Output Power(dBm)	Tune up Power in tolerance(dBm)	Scaling Factor
	128	29.25	29.3 ± 1.0	1.012
GSM850	190	29.22	29.3 ± 1.0	1.019
	251	29.18	29.3 ± 1.0	1.028
GPRS850(GPRS)	128	24.96	24.1 ± 1.0	1.033
GFR3030(GFR3)	190	24.06	24.1 ± 1.0	1.009
4Tx	251	24.01	24.1 ± 1.0	1.021
	512	26.85	26.0 ± 1.0	1.035
GSM1900	661	26.74	26.0 ± 1.0	1.062
	810	26.75	26.0 ± 1.0	1.059
	512	23.37	22.5 ± 1.0	1.030
GPRS1900(GPRS)	661	23.24	22.5 ± 1.0	1.062
4Tx	810	23.31	22.5 ± 1.0	1.045
	4132	19.65	18.7 ± 1.0	1.012
WCDMA850	4183	19.53	18.7 ± 1.0	1.040
	4233	19.63	18.7 ± 1.0	1.016
	9262	18.65	17.7 ± 1.0	1.012
WCDMA1900	9400	18.26	17.7 ± 1.0	1.107
	9538	18.55	17.7 ± 1.0	1.035
	1313	19.67	18.8 ± 1.0	1.030
WCDMA1700	1413	19.55	18.8 ± 1.0	1.059
	1513	19.77	18.8 ± 1.0	1.007
CDMA BC0	1013	23.81	23.0 ± 1.0	1.045
CDMA BC0 1XRTT(RC1 SO55)	384	23.85	23.0 ± 1.0	1.035
1XK11(KC1 3000)	777	23.82	23.0 ± 1.0	1.042
CDMA BC0	1013	23.80	23.0 ± 1.0	1.047
1XRTT(RC3 SO32)	384	23.82	23.0 ± 1.0	1.042
1XK11(KC3 3032)	777	23.78	23.0 ± 1.0	1.052
CDMA BC0	1013	22.54	22.0 ± 1.0	1.112
(1xEVDO (Rel.A))	384	22.56	22.0 ± 1.0	1.107
(TAL VDO (INGLA))	777	22.52	22.0 ± 1.0	1.117
CDMA BC1	25	22.87	22.0 ± 1.0	1.030
1XRTT(RC1 SO55)	600	22.88	22.0 ± 1.0	1.028
	1175	22.83	22.0 ± 1.0	1.040
CDMA BC1	25	22.73	22.0 ± 1.0	1.064
1XRTT(RC3 SO32)	600	22.77	22.0 ± 1.0	1.054
17.1(11(100 0002)	1175	22.71	22.0 ± 1.0	1.069
CDMA BC1	25	21.63	21.0 ± 1.0	1.089

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			rtoport rto.	
(1xEVDO (Rel.A))	600	21.68	21.0 ± 1.0	1.076
	1175	21.62	21.0 ± 1.0	1.091
LTE B2 20MHz	18700	18.42	17.6 ± 1.0	1.042
1RB#0	18900	18.50	17.6 ± 1.0	1.023
IND#U	19100	18.25	17.6 ± 1.0	1.084
LTE B2 20MHz	18700	17.59	17.0 ± 1.0	1.099
50RB#50	18900	17.78	17.0 ± 1.0	1.052
30KD#30	19100	17.51	17.0 ± 1.0	1.119
LTE B4 20MHz	20050	18.15	17.5 ± 1.0	1.084
1RB#0	20175	18.27	17.5 ± 1.0	1.054
IND#U	20300	18.10	17.5 ± 1.0	1.096
LTE D4 20MU-	20050	17.33	16.5 ± 1.0	1.040
LTE B4 20MHz	20175	17.28	16.5 ± 1.0	1.052
50RB#50	20300	17.34	16.5 ± 1.0	1.038
LTE DE 40ML	20450	18.65	17.8 ± 1.0	1.035
LTE B5 10MHz	20525	18.78	17.8 ± 1.0	1.005
1RB#0	20600	18.55	17.8 ± 1.0	1.059
LTE DE 40ML	20450	17.46	16.8 ± 1.0	1.081
LTE B5 10MHz	20525	17.53	16.8 ± 1.0	1.064
25RB#0	20600	17.55	16.8 ± 1.0	1.059
LTE D7 00ML	20850	18.65	18.0 ± 1.0	1.084
LTE B7 20MHz	21100	18.71	18.0 ± 1.0	1.069
1RB#0	21350	18.55	18.0 ± 1.0	1.109
LTE D7 00ML	20850	17.77	17.0 ± 1.0	1.054
LTE B7 20MHz	21100	17.96	17.0 ± 1.0	1.009
50RB#25	21350	17.72	17.0 ± 1.0	1.067
LTE DAO AOMILE	23060	18.10	17.3 ± 1.0	1.072
LTE B12 10MHz	23095	18.15	17.3 ± 1.0	1.059
1RB#0	23130	18.05	17.3 ± 1.0	1.084
LTE D40 40MH-	23060	17.16	16.4 ± 1.0	1.057
LTE B12 10MHz	23095	17.27	16.4 ± 1.0	1.030
25RB#25	23130	17.24	16.4 ± 1.0	1.038
LTE D47 40ML	23780	18.08	17.5 ± 1.0	1.102
LTE B17 10MHz	23790	18.21	17.5 ± 1.0	1.069
1RB#0	23800	18.02	17.5 ± 1.0	1.117
LTE D47 405411	23780	17.24	16.5 ± 1.0	1.062
LTE B17 10MHz	23790	17.32	16.5 ± 1.0	1.042
25RB#0	23800	17.27	16.5 ± 1.0	1.054
LTE DOE COLUL	26140	18.42	17.7 ± 1.0	1.067
LTE B25 20MHz	26365	18.59	17.7 ± 1.0	1.026
1RB#0	26590	18.43	17.7 ± 1.0	1.064

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LTE DOE COMUL-	26140	17.57	17.0 ± 1.0	1.104
LTE B25 20MHz 50RB#0	26365	17.73	17.0 ± 1.0	1.064
30KD#0	26590	17.60	17.0 ± 1.0	1.096
LTE B26 15MHz	26765	18.42	18.0 ± 1.0	1.143
1RB#0	26865	18.63	18.0 ± 1.0	1.089
IKD#U	26965	18.46	18.0 ± 1.0	1.132
LTE B26 15MHz	26765	17.57	17.0 ± 1.0	1.104
36RB#0	26865	17.79	17.0 ± 1.0	1.050
30KD#U	26965	17.63	17.0 ± 1.0	1.089
LTE B30 10MHz	27110	17.73	17.0 ± 1.0	1.064
1RB#0	27110	17.73	17.0 ± 1.0	1.064
IKD#U	27110	17.73	17.0 ± 1.0	1.064
LTE D20 10MH=	27110	16.27	15.5 ± 1.0	1.054
LTE B30 10MHz 25RB#0	27110	16.27	15.5 ± 1.0	1.054
25KD#U	27110	16.27	15.5 ± 1.0	1.054
LTE D44 20MHz	39750	18.18	17.5 ± 1.0	1.076
LTE B41 20MHz 1RB#0	40620	18.25	17.5 ± 1.0	1.059
IND#U	41490	18.16	17.5 ± 1.0	1.081
LTE B41 20MHz	39750	17.33	16.5 ± 1.0	1.040
50RB#0	40620	17.39	16.5 ± 1.0	1.026
30KD#0	4190	17.33	16.5 ± 1.0	1.040
LTE B66 20MHz	132072	18.31	17.5 ± 1.0	1.045
	132322	18.42	17.5 ± 1.0	1.019
1RB#0	132572	18.27	17.5 ± 1.0	1.054
LTE B66 20MHz	132072	17.48	17.0 ± 1.0	1.127
50RB#0	132322	17.60	17.0 ± 1.0	1.096
JUND#U	132572	17.42	17.0 ± 1.0	1.143

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Primary Antenna

Operation Mode	Channel	Output Power(dBm)	Tune up Power in tolerance(dBm)	Scaling Factor
	128	31.21	30.3 ± 1.0	1.021
GSM850	190	31.18	30.3 ± 1.0	1.028
	251	31.15	30.3 ± 1.0	1.035
GPRS850(GPRS)	128	25.91	25.1 ± 1.0	1.045
, ,	190	26.03	25.1 ± 1.0	1.016
4Tx	251	25.96	25.1 ± 1.0	1.033
	512	28.81	28.0 ± 1.0	1.045
GSM1900	661	28.69	28.0 ± 1.0	1.074
	810	28.46	28.0 ± 1.0	1.132
00004000(0000)	512	23.31	23.5 ± 1.0	1.045
GPRS1900(GPRS)	661	23.18	23.5 ± 1.0	1.076
4Tx	810	23.11	23.5 ± 1.0	1.096
	4132	21.61	20.7 ± 1.0	1.021
WCDMA850	4183	21.23	20.7 ± 1.0	1.114
	4233	21.52	20.7 ± 1.0	1.042
	9262	21.63	20.7 ± 1.0	1.016
WCDMA1900	9400	21.01	20.7 ± 1.0	1.172
	9538	21.73	20.7 ± 1.0	0.993
	1313	21.51	20.8 ± 1.0	1.069
WCDMA1700	1413	21.18	20.8 ± 1.0	1.153
	1513	21.56	20.8 ± 1.0	1.057
CDMA DCO	1013	23.75	23.0 ± 1.0	1.059
CDMA BC0	384	23.78	23.0 ± 1.0	1.052
1XRTT(RC1 SO55)	777	23.76	23.0 ± 1.0	1.057
CDMA DCO	1013	23.66	23.0 ± 1.0	1.081
CDMA BC0	384	23.69	23.0 ± 1.0	1.074
1XRTT(RC3 SO32)	777	23.57	23.0 ± 1.0	1.104
CDMA BCO	1013	22.46	22.0 ± 1.0	1.132
CDMA BC0	384	22.42	22.0 ± 1.0	1.143
(1xEVDO (Rel.A))	777	22.36	22.0 ± 1.0	1.159
	25	22.81	22.0 ± 1.0	1.045
CDMA BC1	600	22.82	22.0 ± 1.0	1.042
1XRTT(RC1 SO55)	1175	22.78	22.0 ± 1.0	1.052
	25	22.67	22.0 ± 1.0	1.079
CDMA BC1	600	22.69	22.0 ± 1.0	1.074
1XRTT(RC3 SO32)	1175	22.62	22.0 ± 1.0	1.091
	25	21.58	21.0 ± 1.0	1.102
CDMA BC1	600	21.64	21.0 ± 1.0	1.086
(1xEVDO (Rel.A))	1175	21.56	21.0 ± 1.0	1.107

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			rtoport rto.	
LTE B2 20MHz	18700	23.36	22.6 ± 1.0	1.057
1RB#0	18900	23.42	22.6 ± 1.0	1.042
IND#U	19100	23.12	22.6 ± 1.0	1.117
LTE B2 20MHz	18700	22.55	22.0 ± 1.0	1.109
_	18900	22.61	22.0 ± 1.0	1.094
50RB#50	19100	22.25	22.0 ± 1.0	1.189
LTE D4 20MH-	20050	23.12	22.5 ± 1.0	1.091
LTE B4 20MHz	20175	23.24	22.5 ± 1.0	1.062
1RB#0	20300	23.08	22.5 ± 1.0	1.102
LTE DA COMU-	20050	21.33	20.5 ± 1.0	1.040
LTE B4 20MHz	20175	21.28	20.5 ± 1.0	1.052
50RB#50	20300	21.34	20.5 ± 1.0	1.038
LTC DE 40MU-	20450	23.56	22.8 ± 1.0	1.057
LTE B5 10MHz	20525	23.71	22.8 ± 1.0	1.021
1RB#0	20600	23.51	22.8 ± 1.0	1.069
LTE DE 40MU-	20450	21.46	20.8 ± 1.0	1.081
LTE B5 10MHz	20525	21.53	20.8 ± 1.0	1.064
25RB#0	20600	21.55	20.8 ± 1.0	1.059
LTE DZ COMUL	20850	23.61	23.0 ± 1.0	1.094
LTE B7 20MHz	21100	23.64	23.0 ± 1.0	1.086
1RB#0	21350	23.52	23.0 ± 1.0	1.117
LTE DZ QQMU-	20850	22.76	22.0 ± 1.0	1.057
LTE B7 20MHz	21100	22.83	22.0 ± 1.0	1.040
50RB#25	21350	22.66	22.0 ± 1.0	1.081
LTE D40 40MH-	23060	23.05	22.3 ± 1.0	1.059
LTE B12 10MHz	23095	23.12	22.3 ± 1.0	1.042
1RB#0	23130	23.01	22.3 ± 1.0	1.069
LTE DAG AOMILE	23060	21.16	20.4 ± 1.0	1.057
LTE B12 10MHz 25RB#25	23095	21.27	20.4 ± 1.0	1.030
Z3RD#Z3	23130	21.24	20.4 ± 1.0	1.038
LTE D17 10MU-	23780	23.02	22.5 ± 1.0	1.117
LTE B17 10MHz 1RB#0	23790	23.15	22.5 ± 1.0	1.084
IND#0	23800	22.96	22.5 ± 1.0	1.132
LTE B17 10MHz	23780	21.24	20.5 ± 1.0	1.062
25RB#0	23790	21.32	20.5 ± 1.0	1.042
Δ ΟΙΝ Ο πΟ	23800	21.27	20.5 ± 1.0	1.054
LTE B25 20MHz	26140	23.35	22.7 ± 1.0	1.084
1RB#0	26365	23.54	22.7 ± 1.0	1.038
H\O#U	26590	23.41	22.7 ± 1.0	1.069
LTE B25 20MHz	26140	22.50	22.0 ± 1.0	1.122
50RB#0	26365	22.68	22.0 ± 1.0	1.076
JUI\D#U	26590	22.58	22.0 ± 1.0	1.102

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				OL 12013 03033
LTE DOC 45MU-	26765	23.35	23.0 ± 1.0	1.161
LTE B26 15MHz 1RB#0	26865	23.56	23.0 ± 1.0	1.107
IKD#U	26965	23.40	23.0 ± 1.0	1.148
LTE B26 15MHz	26765	22.50	22.0 ± 1.0	1.122
36RB#0	26865	22.70	22.0 ± 1.0	1.072
3010#0	26965	22.57	22.0 ± 1.0	1.104
LTE B30 10MHz	27110	22.68	22.0 ± 1.0	1.076
1RB#0	27110	22.68	22.0 ± 1.0	1.076
IND#U	27110	22.68	22.0 ± 1.0	1.076
LTE B30 10MHz	27110	21.27	20.5 ± 1.0	1.054
25RB#0	27110	21.27	20.5 ± 1.0	1.054
23ND#0	27110	21.27	20.5 ± 1.0	1.054
LTE B41 20MHz	39750	23.13	22.5 ± 1.0	1.089
1RB#0	40620	23.21	22.5 ± 1.0	1.069
IND#U	41490	23.12	22.5 ± 1.0	1.091
LTE B41 20MHz	39750	22.28	21.5 ± 1.0	1.052
50RB#0	40620	22.35	21.5 ± 1.0	1.035
301\D#0	4190	22.29	21.5 ± 1.0	1.050
LTE B66 20MHz	132072	23.25	22.5 ± 1.0	1.059
1RB#0	132322	23.37	22.5 ± 1.0	1.030
11\0#0	132572	23.22	22.5 ± 1.0	1.067
LTE B66 20MHz	132072	22.44	22.0 ± 1.0	1.138
50RB#50	132322	22.56	22.0 ± 1.0	1.107
30110#30	132572	22.35	22.0 ± 1.0	1.161

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802.11AC VHT40-A0	5190	16.38	15.5 ± 1.0	1.028
802.11AC	5190	16.95	16.0 ± 1.0	1.012
-VHT40-A0+1				
802.11AC	5270	15.17	14.5 ± 1.0	1.079
n-HT40-A0	3270	15.17	14.5 ± 1.0	1.079
802.11AC	5270	15.62	15.0 ± 1.0	1.091
n-HT40-A0+1	5270	15.02	13.0 ± 1.0	1.091
802.11AC	5590	16.47	15.5 ± 1.0	1.007
-VHT40-A0	5590	10.47	15.5 ± 1.0	1.007
802.11AC	5590	16.83	16.0 ± 1.0	1.040
n-HT40-A0+1	5590	10.03	10.0 ± 1.0	1.040
802.11AC	F70F	16.10	15.5 \(\psi \) 1.0	1.076
n-HT40-A0	5795	16.18	15.5 ± 1.0	1.076
802.11AC	F70F	16.00	16.0 ± 1.0	1.010
n-HT40-A0+1	5795	16.92	16.0 ± 1.0	1.019
BT	CH78	14.04	13.5 ± 1.0	1.112

Note: for LTE power tolerance, only QPSK modulation mode was provide here.

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10.Test Results

10.1 Upper Antenna

Table 1: SAR Values of GSM 850MHz Band

		Tempera	ature: 23.0~23	.5°C, humidit	y: 62~64%	о́.		
			Channel	SA	R(W/Kg),	1.6 (1g average))	Plot
Т	est Positio	ons	/Frequency	SAR	Scaled	Scaled SAR	Power	No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	INO.
	Left	Cheek	190/836.6	0.514	1.019	0.524	2.22	
	Leit	Tilt	190/836.6	0.366	1.019	0.373	3.55	
			128/824.2	0.924	1.012	0.935	0.43	
			190/836.6	1.026	1.019	1.045	-0.91	1
			251/848.8	0.964	1.028	0.991	1.66	
			128/824.2	0.874	1.012	0.004	2.67	
		Cheek	Repeated	0.674	1.012	0.884	-2.67	
			190/836.6	0.955	1.019	0.973	-1.25	
			Repeated	0.933	1.019	0.973	-1.20	
Head	Head		251/848.8	0.923	1.028	0.949	1.14	
	Right		Repeated	0.923	1.020	0.949	1.14	
	rtigit		128/824.2	0.825	1.012	0.835	0.14	
			190/836.6	0.874	1.019	0.891	3.45	
			251/848.8	0.811	1.028	0.834	1.78	
			128/824.2	0.812	1.012	0.822	3.11	
		Tilt	Repeated	0.012	1.012	0.622	3.11	
			190/836.6	0.843	1.019	0.859	-0.01	
			Repeated	0.043	1.019	0.659	-0.01	
			251/848.8	0.785	1.028	0.807	1.22	
			Repeated	0.765	1.020	0.007	1.22	
Body-worn	GPRS	Face Upward	190/836.6	0.512	1.009	0.517	3.01	
(10mm Separation)	(4Tx)	Back Upward	190/836.6	0.748	1.009	0.755	-2.85	2
, ,		Face Upward	190/836.6	0.512	1.009	0.517	3.01	
Hotspot	GPRS	Back Upward	190/836.6	0.748	1.009	0.755	-2.85	2
(10mm	(4Tx)	Edge B	190/836.6	0.245	1.009	0.247	1.17	
Separation)		Edge A	190/836.6	0.447	1.009	0.451	-3.66	
		Edge D	190/836.6	0.199	1.009	0.201	-4.01	

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Table 2: SAR Values of GSM1900 MHz Band

		Tempera	ature: 23.0~23.	.5°C, humidit	y: 62~64%	, 0.		
			Channel	SA	R(W/Kg),	1.6 (1g average)	Diet
Te	est Positio	ons	/Frequency	/Frequency SAR Scaled			Power	Plot No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	INO.
	Left Cheek		661/1880	0.438	1.062	0.465	-0.66	
Head	Leit	Tilt	661/1880	0.385	1.062	0.409	0.67	
rieau	Right	Cheek	661/1880	0.668	1.062	0.709	-1.59	3
	Rigiti	Tilt	661/1880	0.544	1.062	0.578	-2.45	
Body-worn	GPRS	Face Upward	661/1880	0.341	1.062	0.362	-1.12	
(10mm Separation)	(4Tx)	Back Upward	661/1880	0.706	1.062	0.750	-3.59	4
		Face Upward	661/1880	0.341	1.062	0.362	-1.12	
Hotspot	GPRS	Back Upward	661/1880	0.706	1.062	0.750	-3.59	
`	(10mm (4Tx)	Edge B	661/1880	0.188	1.062	0.200	-3.55	
Separation)		Edge A	661/1880	0.354	1.062	0.376	0.57	
		Edge D	661/1880	0.105	1.062	0.112	-2.45	

Table 3: SAR Values of WCDMA850

		Tempera	ature: 23.0~23	.5°C, humidit	y: 62~64%	′ 0.		
			Channel	SA	R(W/Kg),	1.6 (1g average	∋)	Diet
Te	est Positio	ons	/Frequency	SAR	Scaled	Scaled SAR	Power	Plot No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	INO.
	Left Cheek		4183/836.6	0.642	1.040	0.668	-2.47	
	Leit	Tilt	4183/836.6	0.511	1.040	0.531	-1.14	
			4132/826.4	0.899	1.012	0.910	-4.26	
			4183/836.6	0.920	1.040	0.957	-2.88	5
			4233/846.6	0.901	1.016	0.915	-2.36	
Head			4132/826.4	0.874	1.012	0.884	-3 03	
riead	Right	Cheek	Repeated	0.074	1.012	0.004	-5.05	
			4183/836.6	0.895	0.895 1.040 0	0.931	-1 2/	
			Repeated	0.093	1.040	0.931	-1.24	
			4233/846.6	0.886	1.016	0.900		
			Repeated	0.000	1.010	0.900	1.45	
		Tilt	4183/836.6	0.689	1.040	0.717	-0.25	
Body-worn ((10mm	Face Upward	4183/836.6	0.288	1.040	0.300	1.25	
Separati	on)	Back Upward	4183/836.6	0.498	1.040	0.518	-2.49	6
		Face Upward	4183/836.6	0.288	1.040	0.300	1.25	
Hotspo	Hotspot (10mm Separation)		4183/836.6	0.498	1.040	0.518	-2.49	6
·			4183/836.6	0.246	1.040	0.256	3.16	
		Edge A	4183/836.6	0.367	1.040	0.382	4.18	
	Edge D		4183/836.6	0.210	1.040	0.218	4.55	

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Table 4: SAR Values of WCDMA1900

		Tempera	ature: 23.0~23.	.5°C, humidit	y: 62~64%	, 0.		
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot
Te	est Positio	ons	/Frequency	SAR	Scaled	Scaled SAR	Power	No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	INO.
	Cheek		9400/1880	0.425	1.107	0.470	1.47	
Head	Left Tilt		9400/1880	0.388	1.107	0.430	2.80	
Tieau	Right	Cheek	9400/1880	0.615	1.107	0.681	-2.88	7
	Right	Tilt	9400/1880	0.554	1.107	0.613	-0.32	
Body-worn (10mm	Face Upward	9400/1880	0.319	1.107	0.353	0.91	
Separati	on)	Back Upward	9400/1880	0.402	1.107	0.445	-1.83	8
		Face Upward	9400/1880	0.319	1.107	0.353	0.91	
Hotspo	Hotspot Back L		9400/1880	0.402	1.107	0.445	-1.83	8
(10mm Separation)		Edge B	9400/1880	0.101	1.107	0.112	2.70	
		Edge A	9400/1880	0.222	1.107	0.246	-3.42	
	Edge D		9400/1880	0.085	1.107	0.094	0.99	

Table 5: SAR Values of WCDMA1700

		Tempera	ature: 23.0~23	.5°C, humidit	y: 62~64%	, 0.		
			Channel	SAR(W/Kg), 1.6 (1g average)				
T	Test Positions		/Frequency	SAR	Scaled	Scaled SAR	Power	Plot No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	NO.
	Cheek		1413/1732.6	0.068	1.059	0.072	-2.98	
Head	Left	Tilt	1413/1732.6	0.052	1.059	0.055	1.61	
пеац		Cheek	1413/1732.6	0.135	1.059	0.143	-2.98	9
	Right	Tilt	1413/1732.6	0.111	1.059	0.118	-0.18	
Body-worn ((10mm	Face Upward	1413/1732.6	0.081	1.059	0.086	1.05	
Separati	on)	Back Upward	1413/1732.6	0.190	1.059	0.201	-0.96	10
		Face Upward	1413/1732.6	0.081	1.059	0.086	1.05	
Hotspo	Hotspot		1413/1732.6	0.190	1.059	0.201	-0.96	10
(10mm Separation) Edge E		Edge B	1413/1732.6	0.055	1.059	0.058	-3.28	
		Edge A	1413/1732.6	0.101	1.059	0.107	2.84	
		Edge D	1413/1732.6	0.044	1.059	0.047	-1.33	

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Table 6: SAR Values of CDMA BC0

		Tempe	rature: 23.0~23	.5°C, humidit	y: 62~64%	6.		
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot
T	est Positic	ons	/Frequency	SAR	Scaled	Scaled SAR	Power	No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	110.
	Left	Cheek	384/836.5	0.579	1.035	0.599	1.58	
	Leit	Tilt	384/836.5	0.422	1.035	0.437	0.30	
			1013/824.7	0.871	1.045	0.910	0.45	
			384/836.5	0.905	1.035	0.937	-0.08	11
Head			777/848.3	0.859	1.042	0.895	0.99	
1XRTT(RC3			1013/824.7	0.844	1.045	0.882	4.12	
· ·	Right	Cheek	Repeated	0.044	1.045	0.662	4.12	
			384/836.5	0.867	1.035	0.897	2.81	
			Repeated	0.007	1.035	0.897	2.01	
			777/848.3	0.851	1.042	0.887	1.96	
			Repeated	0.651	1.042	0.887	1.90	
		Tilt	384/836.5	0.712	1.035	0.737	1.53	
	Fac	ce Upward	384/836.5	0.179	1.042	0.187	0.61	
1XRTT(RC3	Ba	ck Upward	384/836.5	0.383	1.042	0.399	-3.46	12
SO32)		Edge B	384/836.5	0.125	1.042	0.130	0.66	
-		Edge A	384/836.5	0.189	1.042	0.197	0.95	
		Edge D	384/836.5	0.096	1.042	0.100	1.75	
	Fac	ce Upward	384/836.5	0.124	1.107	0.137	1.84	
1Xevdo(Rel.	Ba	ck Upward	384/836.5	0.344	1.107	0.381	0.59	
0)		Edge B	384/836.5	0.105	1.107	0.116	-0.66	
ĺ		Edge A	384/836.5	0.165	1.107	0.183	-0.17	
		Edge D	384/836.5	0.074	1.107	0.082	0.88	

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Table 7: SAR Values of CDMA BC1

		Temper	rature: 23.0~23	.5°C, humidit	y: 62~64%	6.		
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot
Te	est Positio	ns	/Frequency	SAR	Scaled	Scaled SAR	Power	No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	NO.
	Left	Cheek	600/1880	0.521	1.028	0.536	-0.74	
Head	Leit	Tilt	600/1880	0.346	1.028	0.356	2.20	
1XRTT(RC3 SO55)	Dight	Cheek	600/1880	0.744	1.028	0.765	-1.57	13
	Right	Tilt	600/1880	0.688	1.028	0.707	-1.87	
	Fac	ce Upward	600/1880	0.251	1.054	0.265	1.68	
1XRTT(RC3	Back Upward		600/1880	0.342	1.054	0.360	-3.17	14
SO32)		Edge B	600/1880	0.188	1.054	0.198	-1.33	
-		Edge A	600/1880	0.203	1.054	0.214	0.49	
		Edge D	600/1880	0.147	1.054	0.155	0.36	
	Fac	ce Upward	600/1880	0.223	1.076	0.240	-0.79	
1Xevdo(Rel.	Back Upwar		600/1880	0.318	1.076	0.342	0.56	
0)		Edge B	600/1880	0.154	1.076	0.166	-1.71	
	1	Edge A	600/1880	0.173	1.076	0.186	-1.70	
	I	Edge D	600/1880	0.112	1.076	0.121	-0.48	

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Table 8: SAR Values of LTE Band 2,20MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
_	_		Channel /Frequency	SA	R(W/Kg),	1.6 (1g average	e)	Plot
Test	Positions		(MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
			•	1RB #0				
	Left	Cheek	18900/1880	0.371	1.023	0.380	2.35	
Head	Len	Tilt	18900/1880	0.355	1.023	0.363	3.68	
пеац	Diabt	Cheek	18900/1880	0.565	1.023	0.578	-3.32	15
	Right	Tilt	18900/1880	0.423	1.023	0.433	0.56	
Body-worn	Face l	Jpward	18900/1880	0.188	1.023	0.192	1.78	
(10mm Separation)	Back l	Jpward	18900/1880	0.238	1.023	0.243	-3.81	16
	Face l	Jpward	18900/1880	0.188	1.023	0.192	1.78	
(10mm	Back l	Jpward	18900/1880	0.238	1.023	0.243	-3.81	16
	Edge B		18900/1880	0.134	1.023	0.137	-2.54	
Separation)	Edge A		18900/1880	0.199	1.023	0.204	3.55	
	Edge [ge D	18900/1880	0.102	1.023	0.104	4.12	
			50)%RB #0				
		Cheek	18900/1880	0.331	1.052	0.348	1.25	
Haad	Left	Tilt	18900/1880	0.301	1.052	0.317	3.55	
Head	D: mls 4	Cheek	18900/1880	0.523	1.052	0.550	2.17	
	Right	Tilt	18900/1880	0.367	1.052	0.386	-2.52	
Body-worn (10mm	Face l	Jpward	18900/1880	0.152	1.052	0.160	-3.33	
Separation)	Back l	Jpward	18900/1880	0.199	1.052	0.209	1.24	
	Face l	Jpward	18900/1880	0.152	1.052	0.160	-3.33	
Hotspot	Back l	Jpward	18900/1880	0.199	1.052	0.209	1.24	
(10mm Separation)	Edç	ge B	18900/1880	0.102	1.052	0.107	2.88	
,	Edç	ge A	18900/1880	0.156	1.052	0.164	4.65	
	Edç	ge D	18900/1880	0.066	1.052	0.069	3.99	

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Table 9: SAR Values of LTE Band 4, 20MHz, QPSK

		Tem	perature: 23.0~23	3.5°C, hur	nidity: 62~	64%.		
			Channel /Frequency	S	SAR(W/Kg), 1.6 (1g avera	ge)	
Test	Positions		(MHz)	SAR (W/Kg) ,1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1RE	3 #0				
	Left	Cheek	20175/1732.5	0.415	1.054	0.437	3.15	-
Head	Len	Tilt	20175/1732.5	0.388	1.054	0.409	4.48	-
пеац	Diabt	Cheek	20175/1732.5	0.569	1.054	0.600	-1.74	17
	Right	Tilt	20175/1732.5	0.522	1.054	0.550	3.15	
Body-worn	Face l	Jpward	20175/1732.5	0.187	1.054	0.197	2.85	
(10mm Separation)	Back l	Jpward	20175/1732.5	0.244	1.054	0.257	-4.10	18
	Face l	Jpward	20175/1732.5	0.187	1.054	0.197	2.85	
Hotspot	Back l	Jpward	20175/1732.5	0.244	1.054	0.257	-4.10	18
(10mm	Edç	ge B	20175/1732.5	0.065	1.054	0.069	-2.04	
Separation)	Edç	ge A	20175/1732.5	0.122	1.054	0.129	4.08	
	Edg	ge D	20175/1732.5	0.089	1.054	0.094	2.85	
			50%F	RB #0				
	1 044	Cheek	20175/1732.5	0.351	1.052	0.369	4.52	
Head	Left	Tilt	20175/1732.5	0.302	1.052	0.318	5.85	
пеац	Diabt	Cheek	20175/1732.5	0.496	1.052	0.522	2.73	
	, Right	Tilt	20175/1732.5	0.442	1.052	0.465	3.96	
Body-worn	Face l	Jpward	20175/1732.5	0.128	1.052	0.135	1.78	
(10mm Separation)	Back l	Jpward	20175/1732.5	0.196	1.052	0.206	3.11	-
	Face l	Jpward	20175/1732.5	0.128	1.052	0.135	1.78	
Hotspot	Back l	Jpward	20175/1732.5	0.196	1.052	0.206	3.11	1
(10mm Separation)	Edç	је В	20175/1732.5	0.042	1.052	0.044	-2.11	1
Ocpaiation)	Edç	ge A	20175/1732.5	0.096	1.052	0.101	3.01	1
	Edg	ge D	20175/1732.5	0.055	1.052	0.058	1.78	

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Table 10: SAR Values of LTE Band 5,10MHz, QPSK

		Tem	perature: 23.0~23	3.5°C, hur	nidity: 62~	64%.		
			Channel	S	SAR(W/Kg), 1.6 (1g avera	ge)	
Test	Positions		/Frequency (MHz)	SAR (W/Kg) ,1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1RI	3 #0	•		•	
	Left	Cheek	20525/836.5	0.612	1.005	0.615	2.13	
Head	Leit	Tilt	20525/836.5	0.574	1.005	0.577	3.46	
пеац	Diabt	Cheek	20525/836.5	0.725	1.005	0.729	-1.70	19
	Right	Tilt	20525/836.5	0.695	1.005	0.698	1.57	
Body-worn	Face l	Jpward	20525/836.5	0.245	1.005	0.246	-1.36	
(10mm Separation)	Back l	Jpward	20525/836.5	0.281	1.005	0.282	-3.51	20
,	Face l	Jpward	20525/836.5	0.245	1.005	0.246	-1.36	
Hotspot	Back Upward		20525/836.5	0.281	1.005	0.282	-3.51	20
(10mm	Edg	ge B	20525/836.5	0.105	1.005	0.106	-4.25	
Separation)	Edg	ge A	20525/836.5	0.217	1.005	0.218	-0.13	
	Edg	ge D	20525/836.5	0.166	1.005	0.167	-1.36	
			50%	RB #0			l .	I
	1 - 6	Cheek	20525/836.5	0.549	1.064	0.584	-1.78	
Head	Left	Tilt	20525/836.5	0.505	1.064	0.537	-0.45	
rieau	Right	Cheek	20525/836.5	0.641	1.064	0.682	-3.57	
	Rigiti	Tilt	20525/836.5	0.598	1.064	0.636	-2.34	
Body-worn	Face l	Jpward	20525/836.5	0.201	1.064	0.214	-3.42	
(10mm Separation)	Back l	Jpward	20525/836.5	0.233	1.064	0.248		
	Face l	Jpward	20525/836.5	0.201	1.064	0.214	-3.42	
Hotopot	Back l	Jpward	20525/836.5	0.233	1.064	0.248		
Hotspot (10mm	Edç	ge B	20525/836.5	0.085	1.064	0.090	-1.31	
Separation)	Edç	ge A	20525/836.5	0.176	1.064	0.187	-2.19	
	Edg	ge D	20525/836.5	0.133	1.064	0.142	-3.42	

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Table 11: SAR Values of LTE Band 7,20MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
			Channel	SA	R(W/Kg),	1.6 (1g average)	Plot
Test	Positions		/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
				1RB #0				
	Left	Cheek	21100/2535	0.155	1.069	0.166	0.07	21
Head	Leit	Tilt	21100/2535	0.049	1.069	0.052	-3.16	
Heau	Diaht	Cheek	21100/2535	0.060	1.069	0.064	-3.01	
	Right	Tilt	21100/2535	0.022	1.069	0.024	-1.46	
Body-worn	Face l	Jpward	21100/2535	0.107	1.069	0.114	-2.47	
(10mm Separation)	Back l	Jpward	21100/2535	0.260	1.069	0.278	-1.86	22
, , , , , , , , , , , , , , , , , , ,	Face l	Jpward	21100/2535	0.107	1.069	0.114	-2.47	
Hotspot	Back Upward		21100/2535	0.260	1.069	0.278	-1.86	22
(10mm	Edge B		21100/2535	0.032	1.069	0.034	-1.93	
Separation)	Edg	ge A	21100/2535	0.012	1.069	0.013	-1.7	
	Edg	ge D	21100/2535	0.016	1.069	0.017	-2.85	
			50)%RB #0	l .			I
	Left	Cheek	21100/2535	0.123	1.009	0.124	-4.84	
Head	Leit	Tilt	21100/2535	0.036	1.009	0.036	-2.51	
ricad	Right	Cheek	21100/2535	0.028	1.009	0.028	-1.62	
	Rigiti	Tilt	21100/2535	0.012	1.009	0.012	-2.87	
Body-worn	Face l	Jpward	21100/2535	0.075	1.009	0.076	3.36	
(10mm Separation)	Back l	Jpward	21100/2535	0.233	1.009	0.235	2.08	
,	Face l	Jpward	21100/2535	0.075	1.009	0.076	3.36	
Llatanat	Back l	Jpward	21100/2535	0.233	1.009	0.235	2.08	
Hotspot (10mm	Edç	је В	21100/2535	0.028	1.009	0.028	2.77	
Separation)	Edç	је А	21100/2535	0.008	1.009	0.008	5.78	
	Edg	ge D	21100/2535	0.012	1.009	0.012	4.59	

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Table 12: SAR Values of LTE Band 12,10MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot
Test	Positions		/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
				1RB #0				
	Left	Cheek	23095/707.5	0.042	1.059	0.044	1.57	
Head	Leit	Tilt	23095/707.5	0.035	1.059	0.037	2.9	
Heau	Diaht	Cheek	23095/707.5	0.072	1.059	0.076	-2.95	23
	Right	Tilt	23095/707.5	0.059	1.059	0.062	1.01	
Body-worn	Face l	Jpward	23095/707.5	0.021	1.059	0.022	1.27	
(10mm Separation)	Back l	Jpward	23095/707.5	0.027	1.059	0.029	1.13	24
· · · · · · · · · · · · · · · · · · ·	Face l	Jpward	23095/707.5	0.021	1.059	0.022	1.27	
Hotspot	Back l	Jpward	23095/707.5	0.027	1.059	0.029	1.13	24
(10mm	Edge B		23095/707.5	0.012	1.059	0.013	-3.62	
Separation)	Edg	ge A	23095/707.5	0.018	1.059	0.019	2.5	
	Edg	ge D	23095/707.5	0.008	1.059	0.008	1.27	
			50)%RB #0				I
	Left	Cheek	23095/707.5	0.031	1.030	0.032	1.95	
Head	Len	Tilt	23095/707.5	0.024	1.030	0.025	3.28	
Head	Diaht	Cheek	23095/707.5	0.062	1.030	0.064	0.16	
	Right	Tilt	23095/707.5	0.051	1.030	0.053	1.39	
Body-worn	Face l	Jpward	23095/707.5	0.018	1.030	0.019	3.17	
(10mm Separation)	Back l	Jpward	23095/707.5	0.023	1.030	0.024	4.5	
· · · · · · · · · · · · · · · · · · ·	Face l	Jpward	23095/707.5	0.018	1.030	0.019	3.17	
Hotopot	Back l	Jpward	23095/707.5	0.023	1.030	0.024	4.5	
Hotspot (10mm	Edç	је В	23095/707.5	0.008	1.030	0.008	-1.72	
Separation)	Edç	је А	23095/707.5	0.013	1.030	0.013	4.4	
	Edç	ge D	23095/707.5	0.005	1.030	0.005	3.17	

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Table 13: SAR Values of LTE Band 17,10MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
			Channel		R(W/Kg),	1.6 (1g average	e)	Plot
Test Positions			/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
				1RB #0				
	Left	Cheek	23790/710	0.035	1.069	0.037	-2.87	25
Head	Leit	Tilt	23790/710	0.031	1.069	0.033	2.88	
Heau	Diaht	Cheek	23790/710	0.061	1.069	0.065	2.76	
	Right	Tilt	23790/710	0.045	1.069	0.048	3.99	
Body-worn	Face Upward Back Upward		23790/710	0.019	1.069	0.020	4.96	
(10mm Separation)			23790/710	0.028	1.069	0.030	-1.74	26
· · · · · · · · · · · · · · · · · · ·	Face Upward		23790/710	0.019	1.069	0.020	4.96	
Hotspot	Back Upward		23790/710	0.028	1.069	0.030	-1.74	26
(10mm	Edge B		23790/710	0.012	1.069	0.013	0.07	
Separation)	Edge A		23790/710	0.017	1.069	0.018	3.19	
	Edge D		23790/710	0.007	1.069	0.007	4.96	
			50)%RB #0			•	ı
	Left	Cheek	23790/710	0.028	1.042	0.029	2.66	
Head		Tilt	23790/710	0.023	1.042	0.024	3.99	
ricad	Diaht	Cheek	23790/710	0.055	1.042	0.057	0.87	
	Right	Tilt	23790/710	0.041	1.042	0.043	2.1	
Body-worn	Face l	Jpward	23790/710	0.013	1.042	0.014	2.71	
(10mm Separation)	Back Upward		23790/710	0.022	1.042	0.023	4.04	
· · · · · · · · · · · · · · · · · · ·	Face Upward		23790/710	0.013	1.042	0.014	2.71	
Llatanat	Back Upward		23790/710	0.022	1.042	0.023	4.04	
Hotspot (10mm	Edge B		23790/710	0.008	1.042	0.008	-2.18	
Separation)	Edge A		23790/710	0.013	1.042	0.014	3.94	
	Edge D		23790/710	0.003	1.042	0.003	2.71	

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Table 14: SAR Values of LTE Band 25,20MHz, QPSK

		Tem	perature: 23.0~2					
Test Positions			Channel	SAR(W/Kg), 1.6 (1g average)				
			/Frequency (MHz)	SAR (W/Kg) ,1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1RI	3 #0				
	1 - 4	Cheek	26365/1882.5	0.488	1.026	0.501	1.25	
Head	Left	Tilt	26365/1882.5	0.423	1.026	0.434	-0.03	
пеац	Diabt	Cheek	26365/1882.5	0.576	1.026	0.591	-2.55	27
	Right	Tilt	26365/1882.5	0.511	1.026	0.524	1.67	
Body-worn	Face l	Jpward	26365/1882.5	0.201	1.026	0.206	0.66	
(10mm Separation)	Back Upward		26365/1882.5	0.238	1.026	0.244	-2.35	28
,	Face Upward		26365/1882.5	0.201	1.026	0.206	0.66	
Hotspot	Back Upward		26365/1882.5	0.238	1.026	0.244	-2.35	28
(10mm	Edge B		26365/1882.5	0.142	1.026	0.146	1.2	
Separation)	Edge A		26365/1882.5	0.196	1.026	0.201	1.43	
	Edge D		26365/1882.5	0.125	1.026	0.128	0.66	
			50%l	RB #0			•	•
	Left	Cheek	26365/1882.5	0.454	1.064	0.483	1.66	
Head		Tilt	26365/1882.5	0.371	1.064	0.395	0.38	
Head	Right	Cheek	26365/1882.5	0.532	1.064	0.566	0.53	
		Tilt	26365/1882.5	0.423	1.064	0.450	2.08	
Body-worn	Face Upward		26365/1882.5	0.158	1.064	0.168	1.07	
(10mm Separation)	(10mm Separation) Back U		26365/1882.5	0.181	1.064	0.193	4.08	
	Face Upward		26365/1882.5	0.158	1.064	0.168	1.07	
Hotopot	Back Upward		26365/1882.5	0.181	1.064	0.193	4.08	
Hotspot (10mm	Edge B		26365/1882.5	0.043	1.064	0.046	1.61	
Separation)	Edge A		26365/1882.5	0.13	1.064	0.138	1.84	
	Edge D		26365/1882.5	0.052	1.064	0.055	0.69	

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Table 15: SAR Values of LTE Band 26,15MHz, QPSK

		Tem	perature: 23.0~	23.5°C, hur	midity: 62~	-64%.		
Test Positions			Channel	SAR(W/Kg), 1.6 (1g average)				
			/Frequency (MHz)	SAR (W/Kg), 1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1F	RB #0				
	1 6	Cheek	26865/831.5	0.257	1.089	0.280	2.31	
Head	Left	Tilt	26865/831.5	0.243	1.089	0.265	1.03	
неао	D: alb4	Cheek	26865/831.5	0.724	1.089	0.788	-1.79	29
	Right	Tilt	26865/831.5	0.614	1.089	0.669	2.73	
Body-worn	Face l	Jpward	26865/831.5	0.185	1.089	0.201	1.72	
(10mm Separation)	Back Upward		26865/831.5	0.280	1.089	0.305	-3.77	30
,	Face Upward		26865/831.5	0.185	1.089	0.201	1.72	
Hotspot	Back Upward		26865/831.5	0.280	1.089	0.305	-3.77	30
(10mm	Edge B		26865/831.5	0.103	1.089	0.112	2.26	
Separation)	Edge A		26865/831.5	0.233	1.089	0.254	2.49	
	Edge D		26865/831.5	0.145	1.089	0.158	1.34	
			50%	6RB #0			•	ı
	Left	Cheek	26865/831.5	0.223	1.050	0.234	0.79	
Head		Tilt	26865/831.5	0.191	1.050	0.201	-0.49	
ricad	Right	Cheek	26865/831.5	0.68	1.050	0.714	-0.34	
	Right	Tilt	26865/831.5	0.526	1.050	0.552	1.21	
Body-worn	Face l	Jpward	26865/831.5	0.142	1.050	0.149	0.2	
(10mm Separation)	Back Upward		26865/831.5	0.223	1.050	0.234	3.21	
	Face Upward		26865/831.5	0.142	1.050	0.149	0.2	
Hotopot	Back Upward		26865/831.5	0.223	1.050	0.234	3.21	
Hotspot (10mm	Edge B		26865/831.5	0.004	1.050	0.004	0.74	
Separation)	Edge A		26865/831.5	0.167	1.050	0.175	0.97	
	Edge D		26865/831.5	0.072	1.050	0.076	-0.18	

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Table 16: SAR Values of LTE Band 30,10MHz, QPSK

		Ten	perature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
			Channel	SA	R(W/Kg),	1.6 (1g average)	Plot
•			/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
				1RB #0				
	Left	Cheek	27710/2310	0.196	1.064	0.209	2.48	
Head	Leit	Tilt	27710/2310	0.134	1.064	0.143	1.20	
rieau	Right	Cheek	27710/2310	0.304	1.064	0.323	-2.26	31
	Right	Tilt	27710/2310	0.257	1.064	0.273	2.90	
Body-worn			27710/2310	0.248	1.064	0.264	1.89	
(10mm Separation)	Back l	Jpward	27710/2310	0.419	1.064	0.446	-1.01	32
	Face Upward		27710/2310	0.248	1.064	0.264	4.91	
Hotspot	Back Upward		27710/2310	0.419	1.064	0.446	-1.01	32
(10mm	Edge B		27710/2310	0.185	1.064	0.197	3.71	
Separation)	Edge C		27710/2310	0.266	1.064	0.283	2.86	
	Edge D		27710/2310	0.112	1.064	0.119	1.51	
			50)%RB #0	•		•	•
	Left	Cheek	27710/2310	0.174	1.054	0.183	-0.48	
Head		Tilt	27710/2310	0.103	1.054	0.109	1.85	
Head	Right	Cheek	27710/2310	0.256	1.054	0.270	2.74	
	Rigit	Tilt	27710/2310	0.201	1.054	0.212	1.49	
Body-worn	Face Upward		27710/2310	0.366	1.054	0.386	0.24	
(10mm Separation)	Back Upward		27710/2310	0.189	1.054	0.199	3.36	
· · · · · · · · · · · · · · · · · · ·	Face Upward		27710/2310	0.366	1.054	0.386	0.24	
	Back Upward		27710/2310	0.189	1.054	0.199	3.36	
Hotspot (10mm	Edge B		27710/2310	0.145	1.054	0.153	1.85	
Separation)	Edge A		27710/2310	0.196	1.054	0.207	-1.58	
	Edge D		27710/2310	0.103	1.054	0.109	-2.66	

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Table 17: SAR Values of LTE Band 41,20MHz, QPSK

		Ten	perature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot
Test Positions			/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
			•	1RB #0				
	Left	Cheek	39150/2350	0.132	1.059	0.140	2.86	
Head	Leit	Tilt	39150/2350	0.101	1.059	0.107	1.58	
Heau	Right	Cheek	39150/2350	0.182	1.059	0.193	-2.59	33
	Rigiit	Tilt	39150/2350	0.152	1.059	0.161	3.28	
Body-worn	Face Upward Back Upward		39150/2350	0.153	1.059	0.162	2.27	
(10mm Separation)			39150/2350	0.177	1.059	0.187	-2.80	34
· · · · · · · · · · · · · · · · · · ·	Face Upward		39150/2350	0.153	1.059	0.162	2.27	
Hotspot	Back Upward		39150/2350	0.177	1.059	0.187	-2.80	34
(10mm	Edge B		39150/2350	0.128	1.059	0.136	2.81	
Separation)	Edge A		39150/2350	0.088	1.059	0.093	3.04	
	Edge D		39150/2350	0.103	1.059	0.109	1.89	
			50)%RB #0	•		•	•
	Left	Cheek	39150/2350	0.098	1.026	0.135	-0.1	
Head		Tilt	39150/2350	0.049	1.026	0.104	2.23	
ricaa	Right	Cheek	39150/2350	0.138	1.026	0.187	3.12	
		Tilt	39150/2350	0.064	1.026	0.156	1.87	
Body-worn	Face l	Jpward	39150/2350	0.11	1.026	0.157	-3.25	
(10mm Separation)	Back Upward		39150/2350	0.12	1.026	0.182	-4.53	
	Face Upward		39150/2350	0.11	1.026	0.157	-4.38	
Hotopot	Back Upward		39150/2350	0.12	1.026	0.182	-2.83	
Hotspot (10mm	Edge B		39150/2350	0.029	1.026	0.131	-3.84	
Separation)	Edge A		39150/2350	0.022	1.026	0.090	-0.83	
	Edge D		39150/2350	0.03	1.026	0.106	-2.02	

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Table 18: SAR Values of LTE Band 66,20MHz, QPSK

		Tem	perature: 23.0~23	3.5°C, hur	nidity: 62~	64%.		
			Channel	S	SAR(W/Kg), 1.6 (1g avera	ge)	
Test	Positions		/Frequency (MHz)	SAR (W/Kg) ,1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1RE	3 #0				
	l oft	Cheek	132197/1732.5	0.189	1.019	0.193	-2.36	
Head	Left	Tilt	132197/1732.5	0.166	1.019	0.169	-3.64	
пеац	D: ab4	Cheek	132197/1732.5	0.285	1.019	0.290	-2.70	35
	Right	Tilt	132197/1732.5	0.246	1.019	0.251	-1.94	
Body-worn	Face l	Jpward	132197/1732.5	0.213	1.019	0.217	-2.95	
(10mm Separation)	Back l	Jpward	132197/1732.5	0.258	1.019	0.263	-4.71	36
	Face l	Jpward	132197/1732.5	0.213	1.019	0.217	-2.95	
Hotspot	Back Upward		132197/1732.5	0.258	1.019	0.263	-4.71	36
(10mm	Edge B		132197/1732.5	0.089	1.019	0.091	-2.41	
Separation)	Edg	ge A	132197/1732.5	0.111	1.019	0.113	-2.18	
	Edg	ge D	132197/1732.5	0.075	1.019	0.076	-3.33	
			50%F	RB #0	•		•	ı
	Left	Cheek	132197/1732.5	0.155	1.096	0.170	-2.99	
Head	Len	Tilt	132197/1732.5	0.114	1.096	0.125	-2.1	
ricad	Right	Cheek	132197/1732.5	0.241	1.096	0.264	-3.35	
	Rigiti	Tilt	132197/1732.5	0.158	1.096	0.173	-4.6	
Body-worn	Face l	Jpward	132197/1732.5	0.17	1.096	0.186	1.56	
(10mm Separation)	Back l	Jpward	132197/1732.5	0.201	1.096	0.220	0.28	
·	Face l	Jpward	132197/1732.5	0.17	1.096	0.186	1.56	
Hotopot	Back l	Jpward	132197/1732.5	0.201	1.096	0.220	0.28	
Hotspot (10mm	Edç	ge B	132197/1732.5	0.023	1.096	0.025	0.97	
Separation)	Edç	ge A	132197/1732.5	0.045	1.096	0.049	3.98	
	Edg	ge D	132197/1732.5	0.018	1.096	0.020	2.79	

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10.2 Primary Antenna

Table 19: SAR Values of GSM 850MHz Band

		Tempera	ature: 23.0~23.	.5°C, humidit	y: 62~64%	, 0.		
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot
Te	est Positio	ons	/Frequency	SAR	Scaled	Scaled SAR	Power	No.
				(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	110.
	Left	Cheek	190/836.6	0.123	1.028	0.126	1.3	
Head	Leit	Tilt	190/836.6	0.054	1.028	0.056	0.02	
Head	Diabt	Cheek	190/836.6	0.182	1.028	0.187	2.00	37
	Right	Tilt	190/836.6	0.077	1.028	0.079	1.72	
Body-worn (10mm	GPRS	Face Upward	190/836.6	0.335	1.016	0.340	0.71	
Separation)	(4Tx)	Back Upward	190/836.6	0.406	1.016	0.412	2.61	38
		Face Upward	190/836.6	0.335	1.016	0.340	0.71	
Hotspot	GPRS	Back Upward	190/836.6	0.406	1.016	0.412	2.61	38
(10mm	(4Tx)	Edge B	190/836.6	0.180	1.016	0.183	1.25	
Separation)		Edge C	190/836.6	0.221	1.016	0.225	1.48	
		Edge D	190/836.6	0.035	1.016	0.036	0.33	

Table 20: SAR Values of GSM1900 MHz Band

		Tempera	ature: 23.0~23.	.5°C, humidity	y: 62~64%	, 0.		
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot
Te	est Positic	ons	/Frequency (MHz)	SAR	Scaled	Scaled SAR	Power	No.
				(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	
	Left	Cheek	661/1880	0.013	1.074	0.014	0.67	
Head	Tilt	661/1880	0.009	1.074	0.010	1.56		
	Right	Cheek	661/1880	0.018	1.074	0.019	-1.84	39
	ixigiit	Tilt	661/1880	0.011	1.074	0.012	-0.94	
Body-worn	GPRS	Face Upward	661/1880	0.069	1.076	0.074	1.09	
(10mm Separation)	(4Tx)	Back Upward	661/1880	0.073	1.076	0.079	-2.82	40
		Face Upward	661/1880	0.069	1.076	0.074	1.09	
Hotspot	GPRS	Back Upward	661/1880	0.073	1.076	0.079	-2.82	40
(10mm	(4Tx)	Edge B	661/1880	0.007	1.076	0.008	0.5	
Separation)		Edge C	661/1880	0.019	1.076	0.020	3.51	
		Edge D	661/1880	0.041	1.076	0.044	2.32	

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Table 21: SAR Values of WCDMA850

		Tempera	ature: 23.0~23	.5°C, humidit	y: 62~64%	, 0.		
			Channel SAR(W/Kg), 1.6 (1g average)					Plot
Te	Test Positions		/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
	l oft	Cheek	4183/836.6	0.144	1.114	0.160	-1.58	41
Hood	Left	Tilt	4183/836.6	0.129	1.114	0.144	1.35	
Head	Diaht	Cheek	4183/836.6	0.121	1.114	0.135	0.1	
	Right	Tilt	4183/836.6	0.082	1.114	0.091	-1.15	
Body-worn ((10mm	Face Upward	4183/836.6	0.178	1.114	0.198	-0.79	
Šeparati	on)	Back Upward	4183/836.6	0.319	1.114	0.355	-1.42	42
		Face Upward	4183/836.6	0.178	1.114	0.198	-0.79	
Hoten	Hotspot		4183/836.6	0.319	1.114	0.355	-1.42	42
•	(10mm Separation) Edge B Edge C Edge D		4183/836.6	0.189	1.114	0.211	-1.38	
			4183/836.6	0.268	1.114	0.299	1.63	
			4183/836.6	0.034	1.114	0.038	0.44	

Table 22: SAR Values of WCDMA1900

		Tempera	ature: 23.0~23.	.5°C, humidit	y: 62~64%	6.		
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot
To	Test Positions			SAR	Scaled	Scaled SAR	Power	No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	NO.
	Left Cheek		9400/1880	0.015	1.172	0.018	-1.42	
Head	Len	Tilt	9400/1880	0.008	1.172	0.009	-0.53	
Head	Right	Cheek	9400/1880	0.019	1.172	0.022	-3.06	43
	Right	Tilt	9400/1880	0.017	1.172	0.020	-3.03	
Body-worn ((10mm	Face Upward	9400/1880	0.056	1.172	0.066	2.87	
Separati	on)	Back Upward	9400/1880	0.074	1.172	0.087	-0.66	44
		Face Upward	9400/1880	0.056	1.172	0.066	2.87	
Hotspo	Hotspot		9400/1880	0.074	1.172	0.087	-0.66	44
(10mm Separation)		Edge B	9400/1880	0.010	1.172	0.012	3.56	
		Edge C	9400/1880	0.013	1.172	0.015	6.57	
	Edge D		9400/1880	0.037	1.172	0.043	5.38	

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Table 23: SAR Values of WCDMA1700

	Temperature: 23.0~23.5°C, humidity: 62~64%.										
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot			
Te	Test Positions			SAR	Scaled	Scaled SAR	Power	No.			
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	NO.			
	Left	Cheek	1413/1732.6	0.016	1.153	0.018	-1.80	45			
Head	Leit	Tilt	1413/1732.6	0.011	1.153	0.013	-2.68				
пеац	Diaht	Cheek	1413/1732.6	0.013	1.153	0.015	-1.73				
	Right	Tilt	1413/1732.6	0.009	1.153	0.010	-2.22				
Body-worn ((10mm	Face Upward	1413/1732.6	0.011	1.153	0.013	-3.86				
Separati	on)	Back Upward	1413/1732.6	0.054	1.153	0.062	-1.91	46			
		Face Upward	1413/1732.6	0.011	1.153	0.013	-3.86				
Hotspo	Hotspot		1413/1732.6	0.054	1.153	0.062	-1.91	46			
(10mm Separation)		Edge B	1413/1732.6	0.011	1.153	0.013	-2.42				
		Edge C	1413/1732.6	0.009	1.153	0.010	-3.11				
		Edge D	1413/1732.6	0.009	1.153	0.010	-2.33				

Table 24: SAR Values of CDMA BC0

Temperature: 23.0~23.5°C, humidity: 62~64%.										
		I empe	rature: 23.0~23	3.5°C, humidi	ty: 62~64°	%.				
			Channel	SA	AR(W/Kg),	1.6 (1g average	e)	Plot		
Te	est Positio	ons	/Frequency	SAR	Scaled	Scaled SAR	Power	No.		
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	140.		
Head	Left	Cheek	384/836.5	0.251	1.052	0.264	3.17			
1XRTT(RC3	Leit	Tilt	384/836.5	0.186	1.052	0.196	1.89			
SO55)	Dight	Cheek	384/836.5	0.467	1.052	0.491	0.19	47		
3033)	Right	Tilt	384/836.5	0.396	1.052	0.417	2.04			
	Face Upward		384/836.5	0.315	1.074	0.338	3.59			
1XRTT(RC3	Back Upward		384/836.5	0.532	1.074	0.571	-3.50	48		
SO32)	Edge B		384/836.5	0.217	1.074	0.233	1.25			
		Edge C	384/836.5	0.355	1.074	0.381	-0.25			
		Edge D	384/836.5	0.156	1.074	0.168	0.21			
	Fac	ce Upward	384/836.5	0.246	1.143	0.281	-2.54			
1Xevdo(Rel.	Ba	ck Upward	384/836.5	0.447	1.143	0.511	2.18			
0)		Edge B	384/836.5	0.153	1.143	0.175	0.93			
,		Edge C	384/836.5	0.271	1.143	0.310	-3.33			
		Edge D	384/836.5	0.132	1.143	0.151	-4.28			

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Table 25: SAR Values of CDMA BC1

Temperature: 23.0~23.5°C, humidity: 62~64%. Channel SAR(W/Kg), 1.6 (1g average) Plot /Frequency **Test Positions** SAR Scaled Scaled SAR Power No. (MHz) (W/Kg),1g Factor (W/Kg),1g drift (%) Cheek 600/1880 0.352 1.042 0.367 -0.74Left Head Tilt 600/1880 0.324 0.311 1.042 2.20 1XRTT(RC3 Cheek 600/1880 0.442 1.042 0.461 -2.78 49 SO55) Right Tilt 600/1880 0.418 1.042 0.436 -1.87 1.074 Face Upward 600/1880 0.245 0.263 1.68 --50 **Back Upward** 600/1880 0.431 1.074 0.463 -2.20 1XRTT(RC3 1.074 0.202 -1.33 Edge B 600/1880 0.188 SO32) 600/1880 0.276 1.074 0.296 0.49 Edge C --600/1880 0.145 1.074 0.156 0.36 Edge D --Face Upward 600/1880 0.208 1.086 0.226 -0.79600/1880 0.367 1.086 0.399 **Back Upward** 0.56 1Xevdo(Rel. Edge B 600/1880 0.154 1.086 0.167 -1.71 0) -1.70 Edge C 600/1880 0.233 1.086 0.253 Edge D 600/1880 0.101 1.086 0.110 -0.48 --

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Table 26: SAR Values of LTE Band 2,20MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hur	nidity: 62-	-64%.		
			Channel			1.6 (1g average		Plot
Test	Positions		/Frequency	SAR	Scaled	Scaled SAR	Power	No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	
		1		1RB #0	Т		T	T
	Left	Cheek	18900/1880	0.102	1.042	0.106	3.25	
Head	2010	Tilt	18900/1880	0.096	1.042	0.100	4.14	
Tieau	Right	Cheek	18900/1880	0.123	1.042	0.128	-1.64	51
	Right	Tilt	18900/1880	0.109	1.042	0.114	1.64	
Body-worn	Face l	Jpward	18900/1880	0.115	1.042	0.120	0.45	
(10mm Separation)	Back l	Jpward	18900/1880	0.121	1.042	0.126	0.91	52
	Face l	Jpward	18900/1880	0.115	1.042	0.120	0.45	
Hotspot	Back Upward		18900/1880	0.121	1.042	0.126	0.91	52
(10mm	Edge B		18900/1880	0.055	1.042	0.057	1.6	
Separation)	Edç	ge C	18900/1880	0.077	1.042	0.080	4.61	
	Edg	ge D	18900/1880	0.061	1.042	0.064	3.42	
			50	%RB #0				
	Left	Cheek	18900/1880	0.086	1.094	0.094	2.57	
Head	Leit	Tilt	18900/1880	0.081	1.094	0.089	2.14	
пеац	Right	Cheek	18900/1880	0.113	1.094	0.124	2.37	
	Rigiii	Tilt	18900/1880	0.106	1.094	0.116	1.22	
Body-worn	Face l	Jpward	18900/1880	0.096	1.094	0.105	-0.77	
(10mm Separation)	Back l	Jpward	18900/1880	0.102	1.094	0.112	1.56	
	Face l	Jpward	18900/1880	0.096	1.094	0.105	-0.77	
Hotspot	Back l	Jpward	18900/1880	0.102	1.094	0.112	1.56	
(10mm	Edg	ge B	18900/1880	0.023	1.094	0.025	-0.05	
Separation)	Edg	ge C	18900/1880	0.047	1.094	0.051	-0.28	
	Edç	ge D	18900/1880	0.033	1.094	0.036	0.33	

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Table 27: SAR Values of LTE Band 4, 20MHz, QPSK

		Tem	perature: 23.0~23	3.5°C, hur	nidity: 62~	-64%.		
			Channel	S	SAR(W/Kg), 1.6 (1g avera	ge)	
Test	Positions		/Frequency (MHz)	SAR (W/Kg) ,1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1RI	3 #0				
	Left	Cheek	20175/1732.5	0.111	1.062	0.118	-3.14	53
Head	Leit	Tilt	20175/1732.5	0.102	1.062	0.108	0.23	
Head	Right	Cheek	20175/1732.5	0.078	1.062	0.083	3.79	
	Right	Tilt	20175/1732.5	0.072	1.062	0.076	1.93	
Body-worn	Face U	Jpward	20175/1732.5	0.085	1.062	0.090	2.74	
(10mm Separation)	Back l	Jpward	20175/1732.5	0.121	1.062	0.129	2.80	54
	Face U	Jpward	20175/1732.5	0.085	1.062	0.090	2.74	
Hotspot	Back Upward		20175/1732.5	0.121	1.062	0.129	2.80	54
(10mm	Edge B		20175/1732.5	0.046	1.062	0.049	1.46	
Separation)	Edge C		20175/1732.5	0.077	1.062	0.082	1.69	
	Edg	ge D	20175/1732.5	0.052	1.062	0.055	0.54	
			50%F	RB #0			•	
	Left	Cheek	20175/1732.5	0.105	1.052	0.110	-1.45	
Head	LOIL	Tilt	20175/1732.5	0.096	1.052	0.101	0.88	
1100.0	, Right	Cheek	20175/1732.5	0.072	1.052	0.076	1.77	
		Tilt	20175/1732.5	0.065	1.052	0.068	0.52	
Body-worn	Face U	Jpward	20175/1732.5	0.077	1.052	0.081	1.28	
(10mm Separation)	Back l	Jpward	20175/1732.5	0.106	1.052	0.112	0	
	Face U	Jpward	20175/1732.5	0.077	1.052	0.081	1.28	
	Back U	Jpward	20175/1732.5	0.106	1.052	0.112	0	
Hotspot (10mm	Edg	ge B	20175/1732.5	0.041	1.052	0.043	0.69	
Separation)	`		20175/1732.5	0.072	1.052	0.076	3.7	
	Edg	ge D	20175/1732.5	0.033	1.052	0.035	2.51	

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Table 28: SAR Values of LTE Band 5,10MHz, QPSK

		Tem	perature: 23.0~2	3.5°C, hur	nidity: 62~	64%.		
			Channel		SAR(W/Kg), 1.6 (1g avera	ge)	
Test	Positions		/Frequency (MHz)	SAR (W/Kg) ,1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1RI	3 #0			•	
	1 044	Cheek	20525/836.5	0.110	1.021	0.112	2.36	
Head	Left	Tilt	20525/836.5	0.098	1.021	0.100	1.08	
пеац	D: alb4	Cheek	20525/836.5	0.121	1.021	0.124	-2.08	55
	Right	Tilt	20525/836.5	0.071	1.021	0.072	2.78	
Body-worn	Face l	Jpward	20525/836.5	0.087	1.021	0.089	1.77	
(10mm Separation)	Back l	Jpward	20525/836.5	0.163	1.021	0.166	-2.77	56
	Face Upward		20525/836.5	0.087	1.021	0.089	1.77	
Hotspot	Back Upward		20525/836.5	0.163	1.021	0.166	-2.77	56
(10mm	Edg	ge B	20525/836.5	0.008	1.021	0.008	2.31	
Separation)	Edg	ge C	20525/836.5	0.133	1.021	0.136	2.54	
	Edg	ge D	20525/836.5	0.034	1.021	0.035	1.39	
			50%l	RB #0	•		•	1
	Left	Cheek	20525/836.5	0.065	1.064	0.069	-0.6	
Head	Leit	Tilt	20525/836.5	0.051	1.064	0.054	1.73	
Hoda	Right	Cheek	20525/836.5	0.102	1.064	0.109	2.62	
		Tilt	20525/836.5	0.085	1.064	0.090	1.37	
Body-worn	Face l	Jpward	20525/836.5	0.061	1.064	0.065	-2.36	
(10mm Separation)	Back l	Jpward	20525/836.5	0.132	1.064	0.140	-3.64	
	Face l	Jpward	20525/836.5	0.061	1.064	0.065	-2.36	
Hotopot	Back l	Jpward	20525/836.5	0.132	1.064	0.140	-3.64	
Hotspot (10mm	Edç	ge B	20525/836.5	0.05	1.064	0.053	-2.95	
Separation)	Edç	ge C	20525/836.5	0.102	1.064	0.109	0.06	
	Edge D		20525/836.5	0.013	1.064	0.014	-1.13	

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Table 29: SAR Values of LTE Band 7,10MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hun	nidity: 62~	-64%.		
Test	Positions		Channel /Frequency (MHz)	SAR (W/Kg),1g	R(W/Kg), Scaled Factor	1.6 (1g average Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			,	1RB #0			. ,	•
	Left	Cheek	21100/2535	0.019	1.086	0.021	-2.80	57
Head	Leit	Tilt	21100/2535	0.012	1.086	0.013	1.08	
rieau	D' 1.	Cheek	21100/2535	0.014	1.086	0.015	-0.25	
	Right	Tilt	21100/2535	0.009	1.086	0.010	-0.81	
Body-worn	Face l	Jpward	21100/2535	0.056	1.086	0.061	-2.33	
(10mm Separation)	Back l	Jpward	21100/2535	0.127	1.086	0.138	-3.91	58
,	Face l	Jpward	21100/2535	0.056	1.086	0.061	-2.33	
Hotspot	Back Upward		21100/2535	0.127	1.086	0.138	-3.91	58
(10mm	Edge B		21100/2535	0.017	1.086	0.018	-2.22	
Separation)	Edg	ge C	21100/2535	0.081	1.086	0.088	-1.1	
	Edç	ge D	21100/2535	0.029	1.086	0.031	-2.33	
			50	%RB #0			•	
	Left	Cheek	21100/2535	0.015	1.040	0.016	-1.25	
Head	Len	Tilt	21100/2535	0.008	1.040	0.008	0.08	
rieau	Right	Cheek	21100/2535	0.011	1.040	0.011	-3.04	
	Tagni	Tilt	21100/2535	0.007	1.040	0.007	-1.81	
Body-worn	Face l	Jpward	21100/2535	0.045	1.040	0.047	-1.33	
(10mm Separation)	Back l	Jpward	21100/2535	0.101	1.040	0.105	0	
	Face l	Jpward	21100/2535	0.045	1.040	0.047	1.33	
	Back l	Jpward	21100/2535	0.101	1.040	0.105	0	
Hotspot (10mm	Edç	ge B	21100/2535	0.013	1.040	0.014	-6.22	
Separation)	Edç	ge C	21100/2535	0.066	1.040	0.069	-0.1	
	Edç	ge D	21100/2535	0.015	1.040	0.016	-1.33	

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Table 30: SAR Values of LTE Band 12,10MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
			Channel	SA	R(W/Kg),	1.6 (1g average	9)	Plot
Test	Positions		/Frequency	SAR	Scaled	Scaled SAR	Power	No.
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	
		1		1RB #0	T		T	
	Left	Cheek	23095/707.5	0.021	1.042	0.022	0.63	59
Head	20.0	Tilt	23095/707.5	0.014	1.042	0.015	3.62	
ricad	Right	Cheek	23095/707.5	0.010	1.042	0.010	2.37	
	Rigiii	Tilt	23095/707.5	0.010	1.042	0.010	1.12	
Body-worn	Face l	Jpward	23095/707.5	0.008	1.042	0.008	-1.27	
(10mm Separation)	Back l	Jpward	23095/707.5	0.011	1.042	0.011	-1.03	60
	Face l	Jpward	23095/707.5	0.008	1.042	0.008	-1.27	
Hotspot	Back Upward		23095/707.5	0.011	1.042	0.011	-1.03	60
(10mm	Edge B		23095/707.5	0.007	1.042	0.007	-1.86	
Separation)	Edg	ge C	23095/707.5	0.009	1.042	0.009	1.15	
	Edg	ge D	23095/707.5	0.006	1.042	0.006	-0.04	
			50)%RB #0				
	Left	Cheek	23095/707.5	0.015	1.030	0.015	-0.89	
Head	Leit	Tilt	23095/707.5	0.009	1.030	0.009	-1.32	-
riodd	Right	Cheek	23095/707.5	0.008	1.030	0.008	-1.09	
	Rigit	Tilt	23095/707.5	0.008	1.030	0.008	-2.24	
Body-worn	Face l	Jpward	23095/707.5	0.005	1.030	0.005	-4.23	
(10mm Separation)	Back l	Jpward	23095/707.5	0.009	1.030	0.009	-1.9	
	Face l	Jpward	23095/707.5	0.005	1.030	0.005	-4.23	
Hotopot	Back l	Jpward	23095/707.5	0.009	1.030	0.009	-1.9	
Hotspot (10mm	Edg	ge B	23095/707.5	0.006	1.030	0.006	-3.51	1
Separation)	Edg	ge C	23095/707.5	0.008	1.030	0.008	1.58	
	Edg	ge D	23095/707.5	0.005	1.030	0.005	3.17	-

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Table 31: SAR Values of LTE Band 17,10MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
			Channel	SA	R(W/Kg),	1.6 (1g average	∋)	Plot
Test	Positions		/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
				1RB #0				
	Left	Cheek	23790/710	0.015	1.084	0.016	-1.9	
Haad	Leit	Tilt	23790/710	0.012	1.084	0.013	-1.01	
Head	Right	Cheek	23790/710	0.049	1.084	0.053	-3.58	61
		Tilt	23790/710	0.045	1.084	0.049	-3.51	
Body-worn	Face U	Jpward	23790/710	0.007	1.084	0.008	4.25	
(10mm Separation)	Back l	Jpward	23790/710	0.019	1.084	0.021	-1.37	62
	Face U	Jpward	23790/710	0.007	1.084	0.008	4.25	
Hotspot	Back Upward		23790/710	0.019	1.084	0.021	-1.37	62
(10mm	Edge B		23790/710	0.013	1.084	0.014	3.66	
Separation)	Edge C		23790/710	0.016	1.084	0.017	6.67	
	Edg	je D	23790/710	0.007	1.084	0.008	5.48	
			50)%RB #0				
	Left	Cheek	23790/710	0.011	1.042	0.011	4.63	
Head	Leit	Tilt	23790/710	0.008	1.042	0.008	4.2	
ricad	Right	Cheek	23790/710	0.036	1.042	0.038	4.43	
	Rigit	Tilt	23790/710	0.032	1.042	0.033	3.28	
Body-worn	Face U	Jpward	23790/710	0.005	1.042	0.005	1.29	
(10mm Separation)	Back l	Jpward	23790/710	0.015	1.042	0.016	3.62	
	Face U	Jpward	23790/710	0.005	1.042	0.005	1.29	
Hotopot	Back l	Jpward	23790/710	0.015	1.042	0.016	3.62	
Hotspot (10mm	Edg	је В	23790/710	0.009	1.042	0.009	2.01	
Separation)	Edg	је С	23790/710	0.012	1.042	0.013	-3.95	
	Edg	je D	23790/710	0.007	1.042	0.007	4.88	

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Table 32: SAR Values of LTE Band 25,20MHz, QPSK

		Tem	perature: 23.0~23	3.5°C, hur	nidity: 62~	64%.		
			Channel	S	SAR(W/Kg), 1.6 (1g avera	ge)	
Test	Positions		/Frequency (MHz)	SAR (W/Kg) ,1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1RI	3 #0				•
	Left	Cheek	26365/1882.5	0.012	1.038	0.012	0.98	
Head	Leit	Tilt	26365/1882.5	0.009	1.038	0.009	-0.3	
Heau	Right	Cheek	26365/1882.5	0.013	1.038	0.013	1.72	63
	Rigiii	Tilt	26365/1882.5	0.011	1.038	0.011	1.4	
Body-worn	Face l	Jpward	26365/1882.5	0.025	1.038	0.026	0.39	
(10mm Separation)	Back l	Jpward	26365/1882.5	0.030	1.038	0.031	-2.97	64
	Face l	Jpward	26365/1882.5	0.025	1.038	0.026	0.39	
Hotspot	Back Upward		26365/1882.5	0.030	1.038	0.031	-2.97	64
(10mm	Edge B		26365/1882.5	0.010	1.038	0.010	0.93	
Separation)	Edg	ge C	26365/1882.5	0.009	1.038	0.009	1.16	
	Edg	ge D	26365/1882.5	0.016	1.038	0.017	0.01	
			50%F	RB #0				•
	Left	Cheek	26365/1882.5	0.009	1.076	0.010	-1.98	
Head	Leit	Tilt	26365/1882.5	0.007	1.076	0.008	0.35	
Tioad	Right	Cheek	26365/1882.5	0.011	1.076	0.012	1.24	
	rtigiti	Tilt	26365/1882.5	0.009	1.076	0.010	-0.01	
Body-worn	Face l	Jpward	26365/1882.5	0.021	1.076	0.023	-1.28	
(10mm Separation)	Back l	Jpward	26365/1882.5	0.026	1.076	0.028	-2.56	
	Face l	Jpward	26365/1882.5	0.021	1.076	0.023	-1.28	
Hotspot	Back l	Jpward	26365/1882.5	0.026	1.076	0.028	-2.56	
(10mm	Edg	ge B	26365/1882.5	0.008	1.076	0.009	-1.87	
Separation)	Edg	ge C	26365/1882.5	0.006	1.076	0.006	1.14	
	Edg	ge D	26365/1882.5	0.013	1.076	0.014	-0.05	

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Table 33: SAR Values of LTE Band 26,15MHz, QPSK

		Tem	perature: 23.0~2	23.5°C, hur	nidity: 62~	-64%.		
			Channel	S	AR(W/Kg)	, 1.6 (1g averag	e)	
Test	Positions		/Frequency (MHz)	SAR (W/Kg), 1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1F	RB #0				
	Left	Cheek	26865/831.5	0.077	1.107	0.085	-2.06	65
Head	בפו	Tilt	26865/831.5	0.069	1.107	0.076	-2.7	
Heau	Diaht	Cheek	26865/831.5	0.062	1.107	0.069	-2.55	
	Right	Tilt	26865/831.5	0.045	1.107	0.050	-1	
Body-worn	Face U	Jpward	26865/831.5	0.097	1.107	0.107	-2.01	-
(10mm Separation)	Back U	Jpward	26865/831.5	0.148	1.107	0.164	-3.96	66
	Face U	Jpward	26865/831.5	0.097	1.107	0.107	-2.01	
Hotspot	Back Upward		26865/831.5	0.148	1.107	0.164	-3.96	66
(10mm	Edge B		26865/831.5	0.087	1.107	0.096	-1.47	
Separation)	Edg	je C	26865/831.5	0.025	1.107	0.028	-1.24	
	Edg	je D	26865/831.5	0.047	1.107	0.052	-2.39	
			50%	6RB #0				
	Left	Cheek	26865/831.5	0.052	1.072	0.056	-4.38	
Head	Leit	Tilt	26865/831.5	0.046	1.072	0.049	-2.05	
Head	Right	Cheek	26865/831.5	0.042	1.072	0.045	-1.16	
	rtigitt	Tilt	26865/831.5	0.038	1.072	0.041	-2.41	
Body-worn	Face U	Jpward	26865/831.5	0.086	1.072	0.092	0.24	
(10mm Separation)	Back U	Jpward	26865/831.5	0.092	1.072	0.099	-1.04	
	Face U	Jpward	26865/831.5	0.086	1.072	0.092	0.24	
	Back L	Jpward	26865/831.5	0.092	1.072	0.099	-1.04	
Hotspot (10mm	Edg	je B	26865/831.5	0.077	1.072	0.083	-0.35	
Separation)	Edg	је С	26865/831.5	0.013	1.072	0.014	2.66	
	Edg	je D	26865/831.5	0.033	1.072	0.035	1.47	

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Table 34: SAR Values of LTE Band 30,10MHz, QPSK

		Tem	perature: 23.0	~23.5°C, hur	nidity: 62~	64%.		
			Channel		R(W/Kg),	1.6 (1g average	e)	Plot
Test	Positions		/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
			•	1RB #0				
	Left	Cheek	27710/2310	0.112	1.076	0.121	-0.67	
Head	Leit	Tilt	27710/2310	0.096	1.076	0.103	-1.95	
Head	Distri	Cheek	27710/2310	0.142	1.076	0.153	-3.09	67
	Right	Tilt	27710/2310	0.113	1.076	0.122	-0.25	
Body-worn	Face l	Jpward	27710/2310	0.105	1.076	0.113	-1.26	
(10mm Separation)	Back l	Jpward	27710/2310	0.128	1.076	0.138	1.42	68
,	Face U	Jpward	27710/2310	0.105	1.076	0.113	-1.26	
Hotspot	Back l	Jpward	27710/2310	0.128	1.076	0.138	1.42	68
(10mm	Edge B		27710/2310	0.075	1.076	0.081	-0.29	
Separation)	Edg	ge C	27710/2310	0.096	1.076	0.103	0.75	
	Edg	ge D	27710/2310	0.056	1.076	0.060	0.44	
			50	%RB #0				
	Left	Cheek	27710/2310	0.105	1.054	0.111	-1.30	
Head	Leit	Tilt	27710/2310	0.075	1.054	0.079	-0.41	
Heau	Right	Cheek	27710/2310	0.123	1.054	0.130	-1.66	
	Rigit	Tilt	27710/2310	0.097	1.054	0.102	-2.91	
Body-worn	Face l	Jpward	27710/2310	0.085	1.054	0.090	3.56	
(10mm Separation)	Back l	Jpward	27710/2310	0.108	1.054	0.114	2.78	
	Face l	Jpward	27710/2310	0.085	1.054	0.090	3.56	
	Back l	Jpward	27710/2310	0.108	1.054	0.114	2.78	
Hotspot (10mm	Edg	ge B	27710/2310	0.069	1.054	0.073	-2.66	
Separation)	Edg	ge C	27710/2310	0.081	1.054	0.085	3.84	
	Edg	ge D	27710/2310	0.044	1.054	0.046	-1.11	

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Table 35: SAR Values of LTE Band 41,20MHz, QPSK

		Tem	nperature: 23.0	~23.5°C, hur	nidity: 62~	-64%.		
			Channel		R(W/Kg),	1.6 (1g average	e)	Plot
Test	Positions		/Frequency (MHz)	SAR (W/Kg),1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	No.
				1RB #0			, ,	•
	Left	Cheek	39150/2350	0.056	1.069	0.060	-2.23	69
Head	Leit	Tilt	39150/2350	0.042	1.069	0.045	1.5	
rieau	Right	Cheek	39150/2350	0.040	1.069	0.043	1.65	
	Rigiit	Tilt	39150/2350	0.019	1.069	0.020	3.2	
Body-worn	Face U	Jpward	39150/2350	0.057	1.069	0.061	2.19	
(10mm Separation)	Back l	Jpward	39150/2350	0.089	1.069	0.095	-1.26	70
	Face l	Jpward	39150/2350	0.057	1.069	0.061	2.19	
Hotspot	Back l	Jpward	39150/2350	0.089	1.069	0.095	-1.26	70
(10mm	Edge B		39150/2350	0.017	1.069	0.018	2.73	
Separation)	Edg	ge C	39150/2350	0.054	1.069	0.058	2.96	
	Edg	ge D	39150/2350	0.019	1.069	0.020	1.81	
			50)%RB #0				
	Left	Cheek	39150/2350	0.042	1.035	0.043	-0.18	
Head	Lort	Tilt	39150/2350	0.035	1.035	0.036	2.15	
11000	Right	Cheek	39150/2350	0.020	1.035	0.021	3.04	
	Kigiit	Tilt	39150/2350	0.013	1.035	0.013	1.79	
Body-worn	Face l	Jpward	39150/2350	0.042	1.035	0.043	2.37	
(10mm Separation)	Back l	Jpward	39150/2350	0.078	1.035	0.081	1.09	
	Face l	Jpward	39150/2350	0.042	1.035	0.043	2.37	
Hotopot	Back l	Jpward	39150/2350	0.078	1.035	0.081	1.09	
Hotspot (10mm	Edg	је В	39150/2350	0.013	1.035	0.013	1.78	
Separation)	Edg	је С	39150/2350	0.042	1.035	0.043	4.79	
	Edg	ge D	39150/2350	0.016	1.035	0.017	3.6	

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Table 36: SAR Values of LTE Band 66,20MHz, QPSK

		Tem	nperature: 23.0~23					
			Channel		SAR(W/Kg), 1.6 (1g avera	ge)	
Test	Positions		/Frequency (MHz)	SAR (W/Kg) ,1g	Scaled Factor	Scaled SAR (W/Kg),1g	Power drift (%)	Plot No.
			1RE	3 #0				
	Left	Cheek	132197/1732.5	0.056	1.030	0.058	2.29	
Head	Leit	Tilt	132197/1732.5	0.045	1.030	0.046	1.01	
пеац	Right	Cheek	132197/1732.5	0.107	1.030	0.110	-3.31	71
	Right	Tilt	132197/1732.5	0.085	1.030	0.088	2.71	
Body-worn	Face l	Jpward	132197/1732.5	0.142	1.030	0.146	1.7	
(10mm Separation)	Back l	Jpward	132197/1732.5	0.164	1.030	0.169	-2.01	72
·	Face l	Jpward	132197/1732.5	0.142	1.030	0.146	1.7	
Hotspot	Back Upward		132197/1732.5	0.164	1.030	0.169	-2.01	72
(10mm	Edç	ge B	132197/1732.5	0.037	1.030	0.038	2.24	
Separation)	Edç	ge C	132197/1732.5	0.066	1.030	0.068	2.47	
	Edç	ge D	132197/1732.5	0.013	1.030	0.013	1.32	
			50%F	RB #0				
	Left	Cheek	132197/1732.5	0.051	1.107	0.056	-0.67	
Head	Leit	Tilt	132197/1732.5	0.038	1.107	0.042	1.66	
1122.5	Right	Cheek	132197/1732.5	0.079	1.107	0.087	2.55	
		Tilt	132197/1732.5	0.074	1.107	0.082	1.3	
Body-worn (10mm	Face l	Jpward	132197/1732.5	0.112	1.107	0.124	0.59	
Separation)	Back l	Jpward	132197/1732.5	0.131	1.107	0.145	-0.69	
	Face l	Jpward	132197/1732.5	0.112	1.107	0.124	0.59	
Hotopot	Back l	Jpward	132197/1732.5	0.131	1.107	0.145	-0.69	
Hotspot (10mm	Edg	ge B	132197/1732.5	0.025	1.107	0.028	1.82	
Separation)	Ed	ge C	132197/1732.5	0.051	1.107	0.056	0.97	
	Edç	ge D	132197/1732.5	0.006	1.107	0.007	0.54	

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Table 37: SAR Values of Wi-Fi 802.11b-A0

Temperature: 23.0~23.5°C, humidity: 62~64%. Channel SAR(W/Kg), 1.6 (1g average) Plot /Frequency **Test Positions** SAR Scaled Scaled SAR Power No. (MHz) (W/Kg),1g Factor (W/Kg),1gdrift (%) 1.099 Cheek 6/2437 0.159 0.175 0.34 Left Tilt 6/2437 0.134 0.147 1.099 -0.94 Head Cheek 6/2437 0.221 1.099 0.243 0.71 Right Tilt 0.177 6/2437 0.161 1.099 0.76 0.040 Face Upward 1.099 6/2437 0.036 -0.66 --**Back Upward** 6/2437 0.041 1.099 0.045 2.76 Hotspot --(10mm Edge A 6/2437 0.025 1.099 0.027 1.57 --Edge B Separation) 6/2437 0.012 1.099 0.013 0.72 Edge D 6/2437 0.010 1.099 0.011 -1.03

Table 38: SAR Values of Wi-Fi 802.11b-A1

	Temperature: 23.0~23.5°C, humidity: 62~64%.										
			Channel	SAR(W/Kg), 1.6 (1g average)				Plot			
Te	Test Positions			SAR	Scaled	Scaled SAR	Power	No.			
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	INO.			
	Left Ch		6/2437	0.102	1.183	0.121	0.52				
Head	Leit	Tilt	6/2437	0.086	1.183	0.102	-0.63				
Heau	Right	Cheek	6/2437	0.177	1.183	0.209	-2.62				
		Tilt	6/2437	0.152	1.183	0.180	-0.29				
	Fac	ce Upward	6/2437	0.024	1.183	0.028	-0.89				
Hotspot	Bac	ck Upward	6/2437	0.038	1.183	0.045	0.6				
(10mm	Edge A		6/2437	0.031	1.183	0.037	-0.65				
Separation)	Edge B		6/2437	0.012	1.183	0.014	-1.9				
	F	Edge D	6/2437	0.020	1.183	0.024	0.02				

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Table 39: SAR Values of Wi-Fi 802.11n-40-A0+1

Temperature: 23.0~23.5°C, humidity: 62~64%.										
			Channel SAR(W/Kg), 1.6 (1g average)					Plot		
Test Positions			/Frequency	SAR	Scaled	Scaled SAR	Power	No.		
				(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	NO.		
	Left	Cheek	6/2437	0.414	1.016	0.421	1.88	73		
Head	Leit	Tilt	6/2437	0.328	1.016	0.333	0.5			
rieau	Right	Cheek	6/2437	0.295	1.016	0.300	0.65			
		Tilt	6/2437	0.245	1.016	0.249	2.2			
	Fac	e Upward	6/2437	0.034	1.016	0.035	1.19			
Hotspot	Bac	k Upward	6/2437	0.062	1.016	0.063	-2.02	74		
(10mm	Edge A		6/2437	0.021	1.016	0.021	3.01			
Separation)	Edge B		6/2437	0.033	1.016	0.034	2.16			
	E	Edge D	6/2437	0.014	1.016	0.014	-2.13			

Table 40: SAR Values of Wi-Fi 802.11ac-VHT40-A0

	Temperature: 23.0~23.5°C, humidity: 62~64%.										
			Channel	SAR(W/Kg), 1.6 (1g average)				Plot			
Te	Test Positions			SAR	Scaled	Scaled SAR	Power	No.			
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	140.			
	Left	Cheek	38/5190	0.245	1.028	0.252	1.73				
Head	Leit	Tilt	38/5190	0.211	1.028	0.217	1.96				
Head	Right	Cheek	38/5190	0.327	1.028	0.336	0.81				
		Tilt	38/5190	0.311	1.028	0.320	-1.18				
	Fac	e Upward	38/5190	0.152	1.028	0.156	1.15				
Hotspot	Bad	ck Upward	38/5190	0.181	1.028	0.186	0.61	75			
(10mm	I	Edge A	38/5190	0.027	1.028	0.028	0.79				
Separation)	Edge B		38/5190	0.053	1.028	0.054	-0.46				
	l l	Edge D	38/5190	0.019	1.028	0.019	3.24				

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Table 41: SAR Values of Wi-Fi 802.11 ac-VHT40-A0+1

	Temperature: 23.0~23.5°C, humidity: 62~64%.										
			Channel	Channel SAR(W/Kg), 1.6 (1g average)							
Te	Test Positions			SAR	Scaled	Scaled SAR	Power	Plot No.			
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	NO.			
	Left	Cheek	38/5190	0.174	1.012	0.176	0.54				
Head	Leit	Tilt	38/5190	0.133	1.012	0.135	-0.74				
Head	Diabt	Cheek	38/5190	0.238	1.012	0.241	-0.59				
	Right	Tilt	38/5190	0.203	1.012	0.205	0.96				
	Fac	e Upward	38/5190	0.105	1.012	0.106	-0.05				
Hotspot	Bac	k Upward	38/5190	0.141	1.012	0.143	2.96				
(10mm	Edge A		38/5190	0.086	1.012	0.087	1.77				
Separation)	Edge B		38/5190	0.061	1.012	0.062	0.92				
	E	Edge D	38/5190	0.053	1.012	0.054	-0.21				

Table 42: SAR Values of Wi-Fi 802.11 n-HT40-A0

	Temperature: 23.0~23.5°C, humidity: 62~64%.										
			Channel	SAR(W/Kg), 1.6 (1g average)				Plot			
Te	Test Positions			SAR	Scaled	Scaled SAR	Power	No.			
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	INO.			
	Left -		54/5270	0.285	1.079	0.308	0.49				
Head	Leit	Tilt	54/5270	0.233	1.079	0.251	0.72				
Пеац	Right	Cheek	54/5270	0.384	1.079	0.414	4.48	76			
	Rigitt	Tilt	54/5270	0.314	1.079	0.339	-2.42				
	Fac	ce Upward	54/5270	0.112	1.079	0.121	-0.09				
Hotspot	Bac	ck Upward	54/5270	0.176	1.079	0.190	0.8				
(10mm	Edge A		54/5270	0.086	1.079	0.093	-0.45				
Separation)		Edge B	54/5270	0.036	1.079	0.039	-1.7				
	F	Edge D	54/5270	0.021	1.079	0.023	2.27				

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Table 43: SAR Values of Wi-Fi 802.11 n-HT40-A0+1

Temperature: 23.0~23.5°C, humidity: 62~64%.										
			Channel SAR(W/Kg), 1.6 (1g average)					Plot		
Te	Test Positions			SAR	Scaled	Scaled SAR	Power	No.		
			(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	NO.		
	Left	Cheek	54/5270	0.177	1.091	0.193	0.76			
Head	Leit	Tilt	54/5270	0.138	1.091	0.151	-0.52			
Head	Diabt	Cheek	54/5270	0.254	1.091	0.277	-0.37			
	Right	Tilt	54/5270	0.201	1.091	0.219	1.18			
	Fac	e Upward	54/5270	0.125	1.091	0.136	0.17			
Hotspot	Bac	k Upward	54/5270	0.150	1.091	0.164	3.18			
(10mm	Edge A		54/5270	0.085	1.091	0.093	1.99			
Separation)	Edge B		54/5270	0.066	1.091	0.072	1.14			
	E	Edge D	54/5270	0.046	1.091	0.050	0.57			

Table 44: SAR Values of Wi-Fi 802.11ac-VHT40-A0

		Temper	ature: 23.0~23	.5°C, humidit	y: 62~64%	6.			
			Channel	Channel SAR(W/Kg), 1.6 (1g average)					
Te	Test Positions			SAR	Scaled	Scaled SAR	Power	t	
		(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	No.		
	Left	Cheek	118/5590	0.274	1.007	0.276	0.71		
l la a d	Len	Tilt	118/5590	0.253	1.007	0.255	0.94		
Head	Right	Cheek	118/5590	0.357	1.007	0.359	-0.21		
		Tilt	118/5590	0.296	1.007	0.298	-2.2		
	Fac	e Upward	118/5590	0.102	1.007	0.103	0.13		
Hotspot	Bad	ck Upward	118/5590	0.148	1.007	0.149	1.02		
(10mm	Edge A Edge B		118/5590	0.085	1.007	0.086	-0.23		
Separation)			118/5590	0.067	1.007	0.067	-1.48		
	I	Edge D	118/5590	0.044	1.007	0.044	0.47		

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Table 45: SAR Values of Wi-Fi 802.11n-HT40-A0+1

Temperature: 23.0~23.5°C, humidity: 62~64%. Channel SAR(W/Kg), 1.6 (1g average) Plot /Frequency **Test Positions** SAR Scaled Scaled SAR Power No. (MHz) (W/Kg),1g Factor (W/Kg),1gdrift (%) Cheek 118/5590 1.040 0.085 0.088 -0.81 Left Tilt 118/5590 0.081 1.040 0.084 -2.09 Head Cheek 118/5590 0.133 1.040 0.138 -1.94 --Right Tilt 0.105 118/5590 1.040 0.109 -0.39Face Upward 1.040 -1.4 118/5590 0.066 0.069 --**Back Upward** 118/5590 0.074 1.040 0.077 1.61 Hotspot --(10mm Edge A 118/5590 0.023 1.040 0.024 0.42 --Separation) Edge B 118/5590 0.046 1.040 0.048 -0.43 Edge D 118/5590 0.033 1.040 0.034 1.11

Table 46: SAR Values of Wi-Fi 802.11n-HT40-A0

	Temperature: 23.0~23.5°C, humidity: 62~64%.											
			Channel	SA	AR(W/Kg)	1.6 (1g average	∋)	Plot				
Test Positions		/Frequency	SAR	Scaled	Scaled SAR	Power	No.					
		(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	140.					
	Left	Cheek	159/5795	0.163	1.076	0.175	-0.86					
Head -	Len	Tilt	159/5795	0.128	1.076	0.138	-0.63					
пеац	Right	Cheek	159/5795	0.203	1.076	0.218	-1.78					
	Rigitt	Tilt	159/5795	0.188	1.076	0.202	-3.77					
	Fac	e Upward	159/5795	0.085	1.076	0.091	-1.44					
Hotspot	Bac	k Upward	159/5795	0.109	1.076	0.117	-0.55					
(10mm	Edge A		159/5795	0.036	1.076	0.039	-1.8					
Separation)	Edge B		159/5795	0.052	1.076	0.056	-3.05					
	I	Edge D	159/5795	0.023	1.076	0.025	1.44					

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Table 47: SAR Values of Wi-Fi 802.11n-HT40-A0+1

	Temperature: 23.0~23.5°C, humidity: 62~64%.											
			Channel	SA	R(W/Kg),	1.6 (1g average	e)	Plot				
T	Test Positions		/Frequency	SAR	Scaled	Scaled SAR	Power	No.				
		(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	140.					
	Left	Cheek	159/5795	0.108	1.019	0.110	-0.78					
Head	Leit	Tilt	159/5795	0.085	1.019	0.087	-2.06					
Head	Right	Cheek	159/5795	0.155	1.019	0.158	-1.91					
		Tilt	159/5795	0.133	1.019	0.136	-0.36					
	Fac	e Upward	159/5795	0.024	1.019	0.024	-1.37					
Hotspot	Bad	k Upward	159/5795	0.043	1.019	0.044	1.64					
(10mm	I	Edge A		0.013	1.019	0.013	0.45					
Separation)	Edge B		159/5795	0.008	1.019	0.008	-0.4					
	l l	Edge D	159/5795	0.007	1.019	0.007	4.33					

Table 48: SAR Values of BT 3.0 GFSK

	Temperature: 23.0~23.5°C, humidity: 62~64%.											
			Channel	SA	AR(W/Kg),	1.6 (1g average	e)	Plot				
Test Positions			/Frequency	SAR	Scaled	Scaled SAR	Power	No.				
		(MHz)	(W/Kg),1g	Factor	(W/Kg),1g	drift (%)	NO.					
Head -	Left	Cheek	2480/78	0.085	1.112	0.095	-1.36					
	Leit	Tilt	2480/78	0.074	1.112	0.082	-1.85					
rieau	Right	Cheek	2480/78	0.114	1.112	0.127	-2.95	77				
		Tilt	2480/78	0.102	1.112	0.113	0.36					
	Fac	e Upward	2480/78	0.075	1.112	0.083	0.56					
Hotspot	Bac	k Upward	2480/78	0.136	1.112	0.151	4.71	78				
(10mm	Edge A		2480/78	0.076	1.112	0.085	-1.64					
Separation)	Edge B		2480/78	0.055	1.112	0.061	1.3					
	E	Edge D	2480/78	0.038	1.112	0.042	-1.00					

Nota

Per KDB941225 D06 v02r01, When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. As the manufacture requirement the separation distance use 5mm for Hotspot mode.

Per KDB Publication 941225 D01v03r01. RMC 12.2kbps was as primary mode SAR, when the primary mode SAR less than 1.2W/kg, secondary SAR (HSPA) was not requires.

When the 1-g SAR for the mid-band channel or the channel with the highest output power satisfy the following conditions, testing of the other channels in the band is not required. (Per KDB 447498 D01 General RF Exposure Guidance v06)

- ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz
- ≤ 0.6 W/kg, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg, when the transmission band is ≥ 200 MHz

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11. Simultaneous Transmissions Analysis

Localized Specific Absorption Rate (SAR) of this portable wireless device has been measured in all cases requested by the relevant standards cited in Clause 6 of this report. Maximum localized SAR is **below** exposure limits specified in the relevant standards.

Simultaneous SAR

No.	Transmitter Combinations	Scenario	Supported for Mobile
INO.	Transmitter Combinations	Supported or not	Hotspot or not
1	GSM + BT	Yes	No
2	GSM + WIFI 2.4G	Yes	Yes
3	WCDMA +BT	Yes	No
4	WCDMA +WIFI2.4G	Yes	Yes
5	LTE+BT	Yes	No
6	LTE+WIFI2.4G	Yes	Yes
7	WIFI+BT	No	No
8	CDMA+BT	Yes	No
9	CDMA+ WIFI2.4G	Yes	Yes

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Upper Antenna

Simultaneous Tx Combination of GSM/WCDMA/CDMA/LTE and BT/WIFI (Head)

	Test Position	Left Cheek	Left Tilt	Right Cheek	Right Tilt
	GSM850	0.524	0.373	1.045	0.891
	GSM1900	0.465	0.409	0.709	0.578
	WCDMA 850	0.668	0.531	0.910	0.957
	WCDMA 1900	0.470	0.430	0.681	0.613
	WCDMA 1700	0.072	0.055	0.143	0.118
	CDMA BC0	0.599	0.437	0.937	0.737
	CDMA BC1	0.536	0.356	0.765	0.707
	LTE Band2	0.380	0.363	0.578	0.433
	LTE Band4	0.437	0.409	0.600	0.550
Head	LTE Band5	0.615	0.577	0.729	0.698
MAX 1-g	LTE Band7	0.166	0.052	0.064	0.024
SAR(W/Kg)	LTE Band12	0.044	0.037	0.076	0.062
	LTE Band17	0.037	0.033	0.065	0.048
	LTE Band25	0.501	0.434	0.591	0.524
	LTE Band26	0.280	0.265	0.788	0.669
	LTE Band30	0.209	0.143	0.323	0.273
	LTE Band41	0.140	0.107	0.193	0.161
	LTE Band66	0.193	0.169	0.290	0.251
	WIFI 2.4G	0.421	0.333	0.300	0.249
	WIFI 5G	0.308	0.251	0.414	0.339
	BT	0.127	0.127	0.127	0.127
WIFI Simulta	neous Σ 1-g SAR(W/Kg)	1.089	0.910	1.459	1.296
BT Simultar	neous ∑1-g SAR(W/Kg)	0.795	0.704	1.172	1.084

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Simultaneous Tx Combination of GSM/WCDMA/CDMA/LTE and BT/WIFI (Body).

	Test Position		Back	Edge A	Edge B	Edge C	Edge D
	GSM850	0.517	0.755	/	/	/	/
	GSM1900	0.362	0.750	/	/	/	/
	WCDMA 850	0.300	0.518	/	/	/	/
	WCDMA 1900	0.353	0.445	/	/	/	/
	WCDMA 1700	0.086	0.201	/	/	/	/
	CDMA0	0.187	0.399	/	/	/	/
	CDMA1	0.265	0.360	/	/	/	/
	LTE Band2	0.192	0.243	/	/	/	/
Body-worn	LTE Band4	0.197	0.257	/	/	/	/
10mm	LTE Band5	0.246	0.282	/	/	/	/
separation	LTE Band7	0.114	0.278	/	/	/	/
MAX 1-g	LTE Band12	0.022	0.029	/	/	/	/
SAR(W/Kg)	LTE Band17	0.020	0.030	/	/	/	/
	LTE Band25	0.206	0.244	/	/	/	/
	LTE Band26	0.201	0.305	/	/	/	/
	LTE Band30	0.264	0.446	/	/	/	/
	LTE Band41	0.162	0.187	/	/	/	/
	LTE Band66	0.217	0.263	/	/	/	/
	WIFI 2.4G	0.035	0.063	/	/	/	/
	WIFI 5G	0.156	0.186	/	/	/	/
	BT	0.151	0.151	/	/	/	/
WIFI Simulta	aneous Σ 1-g SAR(W/Kg)	0.673	0.941	/	/	/	/
BT Simultar	neous ∑1-g SAR(W/Kg)	0.668	0.906	/	/	1	/

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Simultaneous Tx Combination of GSM/WCDMA/CDMA/LTE and WIFI (Body).

Test Position		Face	Back	Edge A	Edge B	Edge C	Edge D
	GSM850	0.517	0.755	0.451	0.247	/	0.201
	GSM1900	0.362	0.750	0.376	0.200	/	0.112
	WCDMA 850	0.300	0.518	0.382	0.256	/	0.218
	WCDMA 1900	0.353	0.445	0.246	0.112	/	0.094
	WCDMA 1700	0.086	0.201	0.107	0.058	/	0.047
	CDMA0	0.187	0.399	0.197	0.130.	/	0.100
	CDMA1	0.265	0.360	0.214	0.198	/	0.155
Listanat	LTE Band2	0.192	0.243	0.204	0.137	/	0.104
Hotspot	LTE Band4	0.197	0.257	0.129	0.069	/	0.094
10mm	LTE Band5	0.246	0.282	0.218	0.106	/	0.167
separation MAX 1-g	LTE Band7	0.114	0.278	0.013	0.034	/	0.017
SAR(W/Kg)	LTE Band12	0.022	0.029	0.019	0.013	/	0.008
OAR(W/Rg)	LTE Band17	0.020	0.030	0.018	0.013	/	0.007
	LTE Band25	0.206	0.244	0.201	0.146	/	0.128
	LTE Band26	0.201	0.305	0.254	0.112	/	0.158
	LTE Band30	0.264	0.446	0.283	0.197	/	0.119
	LTE Band41	0.162	0.187	0.093	0.163	/	0.109
	LTE Band66	0.217	0.263	0.113	0.091	/	0.076
	WIFI 2.4G	0.035	0.063	0.021	0.034	/	/
	BT	0.151	0.151	0.151	0.151	/	/
WIFI Simulta	neous Σ 1-g SAR(W/Kg)	0.552	0.818	0.472	0.290	/	0.218
BT Simultar	neous Σ 1-g SAR(W/Kg)	0.668	0.906	/	0.407		0.218

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Primary Antenna

Simultaneous Tx Combination of GSM/WCDMA/CDMA/LTE and BT/WIFI (Head)

	Test Position	Left Cheek	Left Tilt	Right Cheek	Right Tilt
	GSM850	0.126	0.056	0.187	0.079
	GSM1900	0.014	0.010	0.019	0.012
	WCDMA 850	0.160	0.144	0.135	0.091
	WCDMA 1900	0.018	0.009	0.022	0.020
	WCDMA 1700	0.018	0.013	0.015	0.010
	CDMA0	0.264	0.196	0.491	0.417
	CDMA1	0.367	0.324	0.461	0.436
	LTE Band2	0.106	0.100	0.128	0.114
	LTE Band4	0.118	0.108	0.083	0.076
Head	LTE Band5	0.112	0.100	0.124	0.072
MAX 1-g	LTE Band7	0.021	0.013	0.015	0.010
SAR(W/Kg)	LTE Band12	0.022	0.015	0.010	0.010
	LTE Band17	0.016	0.013	0.053	0.049
	LTE Band25	0.012	0.009	0.013	0.011
	LTE Band26	0.085	0.076	0.069	0.050
	LTE Band30	0.121	0.103	0.153	0.122
	LTE Band41	0.060	0.045	0.043	0.020
	LTE Band66	0.058	0.046	0.110	880.0
	WIFI 2.4G	0.421	0.333	0.300	0.249
	WIFI 5G	0.308	0.251	0.414	0.339
	BT	0.127	0.127	0.127	0.127
WIFI Simulta	aneous Σ 1-g SAR(W/Kg)	0.788	0.657	0.905	0.775
BT Simultar	neous Σ 1-g SAR(W/Kg)	0.494	0.451	0.618	0.563

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Simultaneous Tx Combination of GSM/WCDMA/CDMA/LTE and BT/WIFI (Body).

	Test Position	Face	Back	Edge A	Edge B	Edge C	Edge D
	GSM850	0.340	0.412	/	/	/	/
	GSM1900	0.074	0.079	/	/	/	/
	WCDMA 850	0.198	0.355	/	/	/	/
	WCDMA 1900	0.066	0.087	/	/	/	/
	WCDMA 1700	0.013	0.062	/	/	/	/
	CDMA0	0.338	0.571	/	/	/	/
	CDMA1	0.263	0.463	/	/	/	/
	LTE Band2	0.120	0.126	/	/	/	/
Body-worn	LTE Band4	0.090	0.129	/	/	/	/
10mm	LTE Band5	0.089	0.166	/	/	/	/
separation	LTE Band7	0.061	0.138	/	/	/	/
MAX 1-g	LTE Band12	0.008	0.011	/	/	/	/
SAR(W/Kg)	LTE Band17	0.008	0.021	/	/	/	/
	LTE Band25	0.026	0.031	/	/	/	/
	LTE Band26	0.107	0.164	/	/	/	/
	LTE Band30	0.113	0.138	/	/	/	/
	LTE Band41	0.061	0.095	/	/	/	/
	LTE Band66	0.146	0.169	/	/	/	/
	WIFI 2.4G	0.035	0.063	/	/	/	/
	WIFI 5G	0.156	0.186	/	/	/	/
	BT	0.151	0.151	/	/	/	/
WIFI Simulta	aneous Σ 1-g SAR(W/Kg)	0.496	0.757	/	/	/	/
BT Simultar	neous ∑1-g SAR(W/Kg)	0.491	0.722	/	/	/	/

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Simultaneous Tx Combination of GSM/WCDMA/CDMA/LTE and WIFI (Body).

	Test Position	Face	Back	Edge A	Edge B	Edge C	Edge D
	GSM850	0.340	0.412	/	0.183	0.225	0.036
	GSM1900	0.074	0.079	/	0.008	0.020	0.044
	WCDMA 850	0.198	0.355	/	0.211	0.299	0.038
	WCDMA 1900	0.066	0.087	/	0.012	0.015	0.043
	WCDMA 1700	0.013	0.062	/	0.013	0.010	0.010
	CDMA0	0.338	0.571	/	0.233	0.381	0.168
	CDMA1	0.263	0.463	/	0.202	0.296	0.156
l latan at	LTE Band2	0.120	0.126	/	0.057	0.080	0.064
Hotspot	LTE Band4	0.090	0.129	/	0.049	0.082	0.055
10mm	LTE Band5	0.089	0.166	/	0.008	0.136	0.035
separation MAX 1-g	LTE Band7	0.061	0.138	/	0.018	0.088	0.031
SAR(W/Kg)	LTE Band12	0.008	0.011	/	0.007	0.009	0.006
SAR(W/Rg)	LTE Band17	0.008	0.021	/	0.014	0.017	0.008
	LTE Band25	0.026	0.031	/	0.010	0.009	0.017
	LTE Band26	0.107	0.164	/	0.096	0.028	0.052
	LTE Band30	0.113	0.138	/	0.081	0.103	0.060
	LTE Band41	0.061	0.095	/	0.018	0.058	0.020
	LTE Band66	0.146	0.169	/	0.038	0.068	0.013
	WIFI 2.4G	0.035	0.063	0.021	0.034	/	/
	BT	0.151	0.151	0.151	0.151	/	/
WIFI Simulta	aneous ∑1-g SAR(W/Kg)	0.496	0.757	0.021	0.264	/	/
BT Simultar	neous ∑1-g SAR(W/Kg)	0.491	0.722	0.151	0.384	/	/

The estimated SAR value with * Signal

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required

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12. Measurement Uncertainty

No.	Uncertainty Component	Туре	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) ui(%)	Degree of freedom Veff or vi
		l	Measure	ement System			l	
1	- Probe Calibration	В	5.8	N	1	1	5.8	∞
2	- Axial isotropy	В	3.5	R	$\sqrt{3}$	0.5	1.43	∞
3	—Hemispherical Isotropy	В	5.9	R	$\sqrt{3}$	0.5	2.41	∞
4	- Boundary Effect	В	1	R	$\sqrt{3}$	1	0.58	∞
5	- Linearity	В	4.7	R	$\sqrt{3}$	1	2.71	∞
6	- System Detection Limits	В	1.0	R	$\sqrt{3}$	1	0.58	∞
7	Modulation response	В	3	N	1	1	3.00	
8	- Readout Electronics	В	0.5	N	1	1	0.50	∞
9	− Response Time	В	1.4	R	$\sqrt{3}$	1	0.81	∞
10	 Integration Time 	В	3.0	R	$\sqrt{3}$	1	1.73	∞
11	- RF Ambient Conditions	В	3.0	R	$\sqrt{3}$	1	1.73	∞
12	Probe Position Mechanical tolerance	В	1.4	R	$\sqrt{3}$	1	0.81	∞
13	Probe Position with	В	1.4	R	$\sqrt{3}$	1	0.81	∞
14	 Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation 	В	2.3	R	$\sqrt{3}$	1	1.33	∞

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	Uncertainties of the DUT							
15	- Position of the DUT	Α	2.6	N	$\sqrt{3}$	1	2.6	5
16	– Holder of the DUT	А	3	N	$\sqrt{3}$	1	3.0	5
17	- Output Power Variation -SAR drift measurement	В	5.0	R	$\sqrt{3}$	1	2.89	∞
		Р	hantom and Ti	ssue Paramet	ers			
18	- Phantom Uncertainty(shape and thickness tolerances)	В	4	R	$\sqrt{3}$	1	2.31	∞
19	Uncertainty in SAR correction for deviation(in permittivity and conductivity)	В	2	N	1	1	2.00	
20	- Liquid Conductivity Target -tolerance	В	2.5	R	$\sqrt{3}$	0.6	1.95	∞
21	- Liquid Conductivity -measurement Uncertainty)	В	4	N	$\sqrt{3}$	1	0.92	9
22	Liquid Permittivity Target tolerance	В	2.5	R	$\sqrt{3}$	0.6	1.95	∞
23	- Liquid Permittivity -measurement uncertainty	В	5	N	$\sqrt{3}$	1	1.15	∞
Cor	Combined Standard Uncertainty			RSS			10.63	
((Expanded uncertainty Confidence interval of 95 %)			K=2			21.26	

System Check Uncertainty

No.	Uncertainty Component	Туре	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) ui(%)	Degree of freedom Veff or vi		
	Measurement System									
1	 − Probe Calibration 	В	5.8	N	1	1	5.8	8		

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							JUILING, JE 12	
2	- Axial isotropy	В	3.5	R	$\sqrt{3}$	0.5	1.43	∞
3	—Hemispherical Isotropy	В	5.9	R	$\sqrt{3}$	0.5	2.41	∞
4	- Boundary Effect	В	1	R	$\sqrt{3}$	1	0.58	∞
5	- Linearity	В	4.7	R	$\sqrt{3}$	1	2.71	∞
6	System Detection Limits	В	1	R	$\sqrt{3}$	1	0.58	∞
7	Modulation response	В	0	N	1	1	0.00	
8	- Readout Electronics	В	0.5	N	1	1	0.50	∞
9	- Response Time	В	0.00	R	$\sqrt{3}$	1	0.00	8
10	− Integration Time	В	1.4	R	$\sqrt{3}$	1	0.81	∞
11	RF Ambient Conditions	В	3.0	R	$\sqrt{3}$	1	1.73	∞
12	- Probe Position Mechanical tolerance	В	1.4	R	$\sqrt{3}$	1	0.81	8
13	Probe Position with respect to Phantom Shell	В	1.4	R	$\sqrt{3}$	1	0.81	∞
14	 Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation 	В	2.3	R	$\sqrt{3}$	1	1.33	∞
			Uncertair	nties of the DU	Τ			
15	Deviation of experimental source from numberical source	А	4	N	1	1	4.00	5
16	Input Power and SAR drift measurement	Α	5	R	$\sqrt{3}$	1	2.89	5
17	Dipole Axis to Liquid Distance	В	2	R	$\sqrt{3}$	1	1.2	∞

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Phantom and Tissue Parameters								
18	 Phantom Uncertainty(shape and thickness tolerances) 	В	4	R	$\sqrt{3}$	1	2.31	∞
19	Uncertainty in SAR correction for deviation(in permittivity and conductivity)	В	2	N	1	1	2.00	
20	- Liquid Conductivity Target -tolerance	В	2.5	R	$\sqrt{3}$	0.6	1.95	∞
21	Liquid Conductivitymeasurement Uncertainty)	В	4	N	$\sqrt{3}$	1	0.92	9
22	- Liquid Permittivity Target tolerance	В	2.5	R	$\sqrt{3}$	0.6	1.95	∞
23	- Liquid Permittivity -measurement uncertainty	В	5	N	$\sqrt{3}$	1	1.15	∞
Cor	Combined Standard Uncertainty			RSS			10.15	
((Expanded uncertainty Confidence interval of 95 %)			K=2			20.29	

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13. Equipment List

This table is a complete overview of the SAR measurement equipment. Devices used during the test described are marked \boxtimes .

	EQUIPMENT	Model	Serial number	Calibration Date	Due Date
\boxtimes	SAR Probe	SSE2	SN27/15 EPGO261	2019/03/04	2020/03/03
\boxtimes	Dipole	SID750	SN 23/15 DIP0G750-378	2017/11/27	2019/11/26
\boxtimes	Dipole	SID835	SN 09/13 DIP0G835-217	2017/11/27	2019/11/26
\boxtimes	Dipole	SID1800	SN 09/13 DIP1G800-216	2017/11/27	2019/11/26
\boxtimes	Dipole	SID1900	SN 09/13 DIP1G900-218	2017/11/27	2019/11/26
\boxtimes	Dipole	SID2450	SN_09/13_DIP2G450-220	2017/11/27	2019/11/26
\boxtimes	Dipole	SID2600	SN 32/14_DIP2G600-338	2017/11/27	2019/11/26
\boxtimes	Dipole	SWG5500	SN15/15 WGA39	2017/11/27	2019/11/26
\boxtimes	Multimeter	Keithley-2000	4085310	2018/09/06	2019/09/05
\boxtimes	System Simulator(Agilent 8960)	E5515C	GB 47200710	2017/11/08	2019/11/07
\boxtimes	System Simulator(R&S)	CMW500	130805	2017/08/29	2019/08/28
\boxtimes	KEYSIGHT	E7515A	MY56040357	2018/04/18	2019/04/18
\boxtimes	Vector Network Analyzer(R&S)	ZVB8	A0802530	2018/05/09	2019/05/09
\boxtimes	PC 3.5 Fixed Match Calibration Kit	ZV-Z32	100571	2017/11/29	2019/11/28
\boxtimes	Dielectric Probe Kit	SCLMP	SN 09/13 OCPG51	2017/11/27	2019/11/26
\boxtimes	Signal Generator	SMU200A	A140801889	2018/05/09	2019/05/09
\boxtimes	Amplifier	Nucletudes	143060	2018/03/27	2019/03/28
\boxtimes	Directional Coupler	DC6180A	305827	2018/03/27	2019/03/28
\boxtimes	Power Meter	NRP2	A140401673	2018/03/27	2019/03/28
\boxtimes	Power Sensor	NPR-Z11	1138.3004.02-114072-nq	2018/03/27	2019/03/28
\boxtimes	Power Meter	NRVS	A0802531	2018/03/27	2019/03/28
\boxtimes	Power Sensor	NRV-Z4	100069	2018/03/27	2019/03/28

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ANNEX A: Appendix A: SAR System performance Check Plots

(Please See Appendix A)

ANNEX B: Appendix B: SAR Measurement results Plots

(Please See Appendix B)

ANNEX C: Appendix C: Calibration reports

(Please See Appendix C)

ANNEX D: Appendix D: SAR Test Setup

(Please See Appendix D)

—End of the Report—

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