



SAR TEST REPORT

For

Mulberry tech group LLC

Mobile Phone

Test Model: F31tx

Additional Model No.: Please Refer to Page 10

Prepared for : Mulberry tech group LLC
Address : 108 Wall st,lakewood,New Jersey,08701,USA

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : June 24, 2025
Number of tested samples : 1
Sample number : A250620059-1
Serial number : Prototype
Date of Test : June 24, 2025 ~ July 08, 2025
Date of Report : July 09, 2025



**SAR TEST REPORT**

Report Reference No.....: LCSA06205036EB

Date Of Issue: July 09, 2025

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Testing Location/ Procedure: Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐**Applicant's Name: Mulberry tech group LLC**

Address: 108 Wall st,lakewood,New Jersey,08701,USA

Test Specification:Standard.....: FCC 47CFR §2.1093
IEEE C95.1-2019
IEEE 1528-2013

Test Report Form No.....: TRF-4-E-102 A/0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF: Dated 2014-09

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Test Item Description.....: Mobile Phone

Trade Mark.....: Fig

Model/Type Reference: F31tx

Ratings.....: Input: 5V
DC 3.85V by Rechargeable Li-ion Battery, 1600mAh**Result: Positive****Compiled by:**

Jay zhan

Jay Zhan/ File administrators

Supervised by:

Jack Liu

Jack Liu/Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager





SAR -- TEST REPORT

Test Report No. :	LCSA06205036EB	July 09, 2025 Date of issue
EUT..... : Mobile Phone		
Type/Model : F31tx		
Applicant..... : Mulberry tech group LLC Address..... : 108 Wall st,lakewood,New Jersey,08701,USA Telephone..... : / Fax..... : /		
Manufacturer..... : ShenZhen Lanshuo Communication Equipment Co., Ltd. Address..... : No.19, Minfu Road, Shajing Town, Bao'an District, Shenzhen, China Telephone..... : / Fax..... : /		
Factory..... : ShenZhen Lanshuo Communication Equipment Co., Ltd. Address..... : No.19, Minfu Road, Shajing Town, Bao'an District, Shenzhen, China Telephone..... : / Fax..... : /		

Test Result	Positive
--------------------	-----------------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Revision	Issue Date	Revision Content	Revised By
000	July 09, 2025	Initial Issue	---





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1. TEST STANDARDS AND TEST DESCRIPTION

1.1. Statement of Compliance

The maximum of results of SAR found during testing for F31tx are follows:

<Highest Reported standalone SAR Summary>

Classment Class	Frequency Band	Head (Report SAR1-g (W/kg))	Body (Report SAR1-g (W/kg))	hotspot (Report SAR1-g (W/kg))
		(Separation Distance 0mm)	(Separation Distance 5mm)	(Separation Distance 10mm)
PCE	GSM850	0.198	0.619	0.353
	GSM1900	0.076	0.292	0.187
	WCDMA Band II	0.087	0.281	0.183
	WCDMA Band IV	0.122	0.310	0.200
	WCDMA Band V	0.118	0.283	0.183
	LTE Band 2	0.173	0.749	0.549
	LTE Band 5	0.111	0.413	0.267
	LTE Band 7	0.092	0.726	0.618
	LTE Band 12/17	0.117	0.208	0.140
	LTE Band 13	0.112	0.207	0.141
	LTE Band 66/4	0.131	0.532	0.361
	LTE Band 71	0.127	0.449	0.305
DTS	WIFI2.4G	0.595	0.643	0.435
NII	WIFI5.2G	0.313	0.339	0.231
	WIFI5.3G	0.364	0.395	0.267
	WIFI5.5G	0.297	0.336	0.238
	WIFI5.8G	0.297	0.335	0.237

Note

- 1) This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.
- 2) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode;
- 3) Body worn only Front side,Rear side

<Highest Reported simultaneous SAR Summary>

Exposure Position	Classment Class	Body (Report SAR1-g (W/kg))	Highest Reported Simultaneous Transmission SAR1-g (W/kg)
Body	PCE	0.749	1.392
	DTS	0.643	





1.2. Test Location

Company: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
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Scan code to check authenticity



1.3. Test Facility

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

Site Description
SAR Lab.

: NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.





1.4. Test Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Atmospheric pressure:	950-1050mbar
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	





1.5. Product Description

The **Mulberry tech group LLC**'s Model: F31tx or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

EUT	: Mobile phone
Test Model	: F31tx
Additional Model No.	: F31, F72, F72TO
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: Input: 5V DC 3.85V by Rechargeable Li-ion Battery, 1600mAh
Hardware Version	: F31-MB-V1.5
Software Version	: F31tx-V01
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0 (DSS) 40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	: 1MHz for Bluetooth V5.0 (DSS) 2MHz for Bluetooth V5.0 (DTS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (DSS) GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	: V5.0
Antenna Description	: PIFA Antenna, 3.88dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 3.88dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5180MHz~5240MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 0.42dBi(Max.)
WIFI(5.3G Band)	:
Frequency Range	: 5260MHz~5320MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5260MHz~5320MHz) 2 channels for 40MHz bandwidth(5270MHz~5310MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 0.87dBi(Max.)
WIFI(5.5G Band)	:
Frequency Range	: 5500MHz~5700MHz
Channel Number	: 11 Channels for 20MHz bandwidth(5500MHz~5700MHz) 5 Channels for 40MHz bandwidth(5510MHz~5670MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)





Antenna Description	: IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) PIFA Antenna, 1.72dBi(Max.)
WIFI(5.8G Band)	:
Frequency Range	: 5745MHz~5825MHz
Channel Number	: 5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna,2.85dBi(Max.)
2G	:
Support Band	: ☒ GSM 900 (EU-Band) ☒ DCS 1800 (EU-Band) ☒ GSM 850 (U.S.-Band) ☒ PCS 1900 (U.S.-Band)
Release Version	: R9
GPRS Class	: Class 12
EGPRS Class	: Class 12
Type Of Modulation	: GMSK for GSM/GPRS; GMSK/8PSK for EGPRS
Antenna Description	: PIFA Antenna 0.73dBi (max.) For GSM 850 1.24dBi (max.) For PCS 1900
3G	:
Support Band	: ☒ WCDMA Band I (EU-Band) ☒ WCDMA Band II (U.S.-Band) ☒ WCDMA Band IV (U.S.-Band) ☒ WCDMA Band V (U.S.-Band) ☒ WCDMA Band VIII (EU-Band)
Release Version	: R9
Type Of Modulation	: QPSK,16QAM
Antenna Description	: PIFA Antenna 1.24dBi (max.) For WCDMA Band II 2.85dBi (max.) For WCDMA Band IV 0.73dBi (max.) For WCDMA Band V
LTE	:
Support Band	: ☒ E-UTRA Band 1(EU-Band) ☒ E-UTRA Band 2(U.S.-Band) ☒ E-UTRA Band 3(EU-Band) ☒ E-UTRA Band 4(U.S.-Band) ☒ E-UTRA Band 5(U.S.-Band) ☒ E-UTRA Band 7(U.S.-Band) ☒ E-UTRA Band 8(EU-Band) ☒ E-UTRA Band 12(U.S.-Band) ☒ E-UTRA Band 13(U.S.-Band) ☒ E-UTRA Band 17(U.S.-Band) ☒ E-UTRA Band 20(EU-Band) ☒ E-UTRA Band 28(EU-Band) ☒ E-UTRA Band 66(U.S.-Band) ☒ E-UTRA Band 71(U.S.-Band)
LTE Release Version	: R9
Type Of Modulation	: QPSK/16QAM
Antenna Description	: PIFA Antenna 1.24dBi (max.) For E-UTRA Band 2 2.85dBi (max.) For E-UTRA Band 4 0.73dBi (max.) For E-UTRA Band 5 -1.93dBi (max.) For E-UTRA Band 7





-8.62dBi (max.) For E-UTRA Band 12
-7.88dBi (max.) For E-UTRA Band 13
-8.62dBi (max.) For E-UTRA Band 17
2.85dBi (max.) For E-UTRA Band 66
-8.93dBi (max.) For E-UTRA Band 71

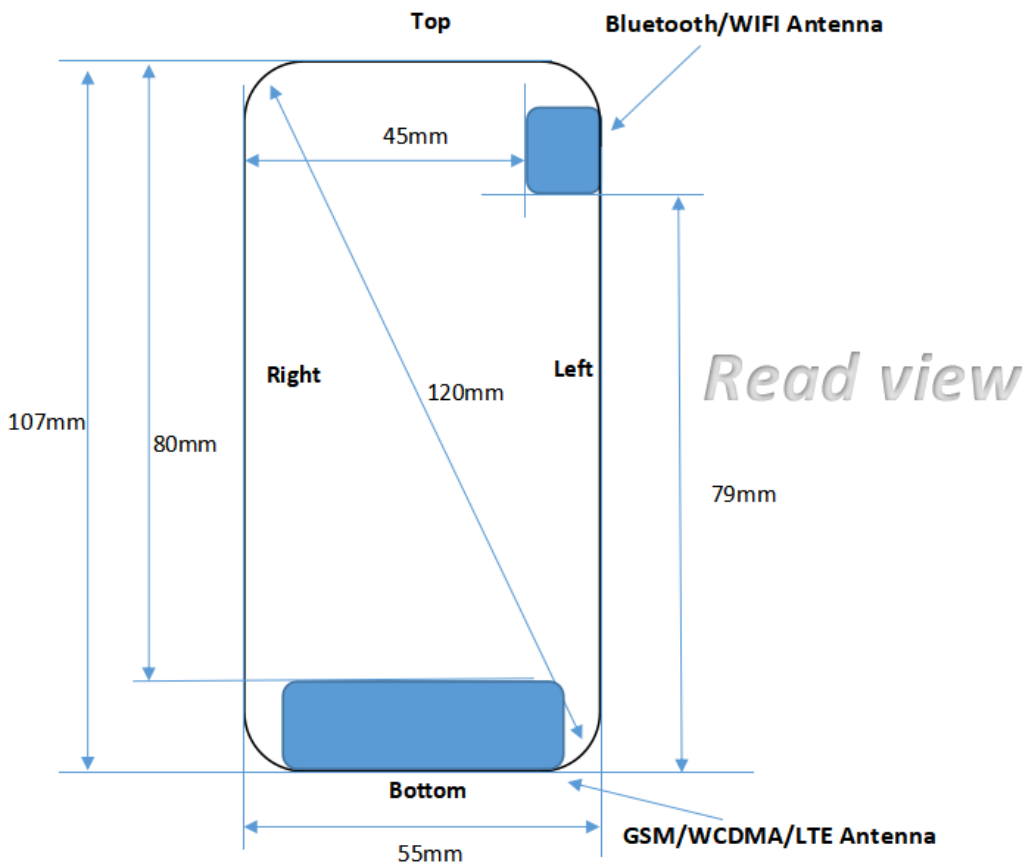
Power Class : Class 3

GPS Function : Support and only RX

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.



1.6. DUT Antenna Locations



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

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Top	Bottom
GSM/WCDMA/LTE Antenna	Body 1g SAR	Yes	Yes	Yes	Yes	No	Yes
BT/WIFI Antenna	Body 1g SAR	Yes	Yes	Yes	No	Yes	No

Table 1: EUT Sides for SAR Testing

Note:

When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.





1.7. Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03





1.8. RF exposure limits

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

Notes:

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

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

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

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

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



Shenzhen LCS Compliance Testing Laboratory Ltd.

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1.9. Equipment list

Test Platform		SPEAG DASY5 Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52; SEMCAD X				
Hardware Reference						
Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	PC	Lenovo	NA	NA	NA ¹	NA ¹
☒	Twin Phantom	SPEAG	SAM V5.0	1850	NA ¹	NA ¹
☒	ELI Phantom	SPEAG	ELI V6.0	2010	NA ¹	NA ¹
☒	DAE	SPEAG	DAE3	419	2025/2/17	2026/2/16
☒	E-Field Probe	SPEAG	EX3DV4	3805	2025/2/25	2026/2/24
☒	Validation Kits	SPEAG	D750V3	1191	2023/6/15	2026/6/14
☒	Validation Kits	SPEAG	D835V2	4d124	2023/6/20	2026/6/19
☒	Validation Kits	SPEAG	D1750V2	1035	2023/6/12	2026/6/11
☒	Validation Kits	SPEAG	D1900V2	5d055	2023/6/20	2026/6/19
☒	Validation Kits	SPEAG	D2450V2	808	2023/10/23	2026/10/22
☒	Validation Kits	SPEAG	D2600V2	1071	2023/6/20	2026/6/19
☒	Validation Kits	SPEAG	D5GHz0V2	1046	2023/10/23	2026/10/22
☒	Agilent Network Analyzer	Agilent	8753E	SU38432944	2025/5/22	2026/5/21
☒	Dielectric Probe Kit	SPEAG	DAK3.5	1425	2025/5/22	2026/5/21
☒	Universal Radio Communication Tester	R&S	CMW500	42115	2024/10/8	2025/10/7
☒	Directional Coupler	MCLI/USA	4426-20	03746	2025/5/22	2026/5/21
☒	Power meter	Agilent	E4419B	MY45104493	2024/10/8	2025/10/7
☒	Power meter	Agilent	E4419B	MY45100308	2024/10/8	2025/10/7
☒	Power sensor	Agilent	E9301H	MY41495616	2024/10/8	2025/10/7
☒	Power sensor	Agilent	E9301H	MY41495234	2024/10/8	2025/10/7
☒	3dB Attenuator	NA	2N-3dB	NA	2024/10/8	2025/10/7
☒	3dB Attenuator	NA	2N-3dB	NA	2024/10/8	2025/10/7
☒	3dB Attenuator	NA	2N-3dB	NA	2024/10/8	2025/10/7
☒	Signal Generator	Agilent	E4438C	MY49072627	2025/5/22	2026/5/21
☒	Broadband Preamplifier	/	BP-01M18G	P190501	2025/5/22	2026/5/21
☒	DC POWER SUPPLY	I-SHENG	SP-504	NA	2025/5/22	2026/5/21
☒	Speed reading thermometer	HTC-1	NA	LCS-E-138	2025/5/22	2026/5/21

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

“1” : NA as this is not measurement equipment.



2. SAR MEASUREMENTS SYSTEM CONFIGURATION

2.1. SAR Measurement System

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

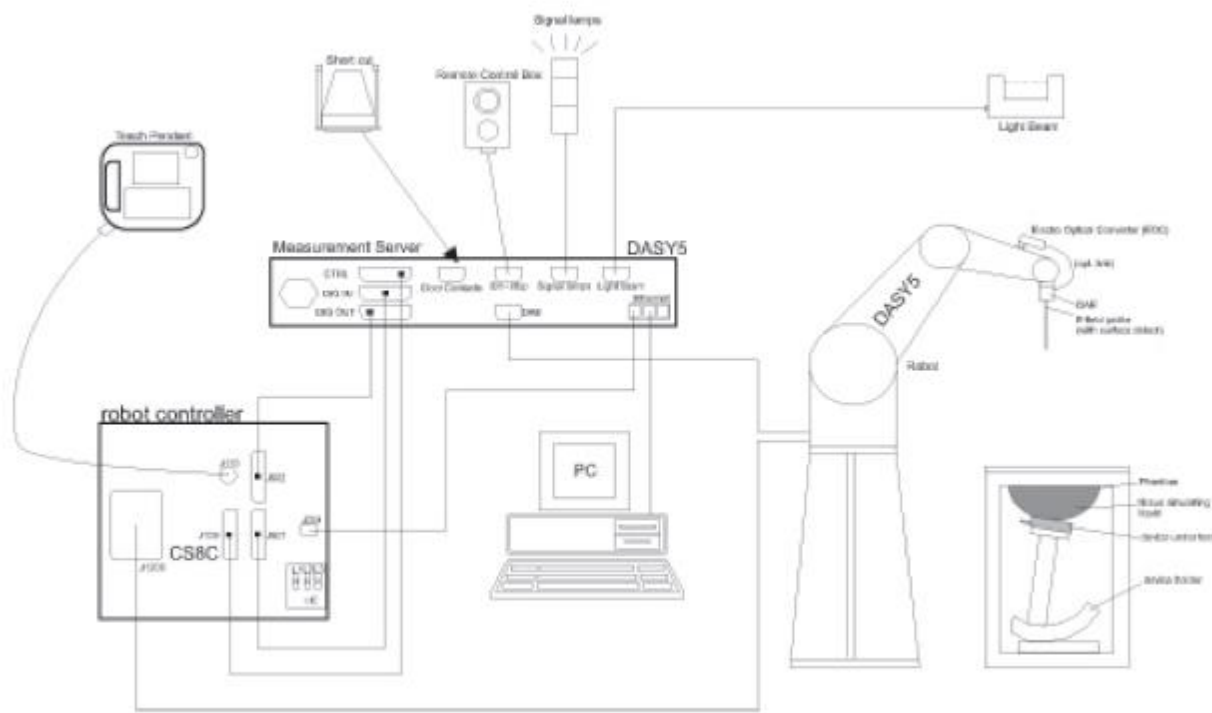
The DASY5 system for performing compliance tests consists of the following items:

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

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

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration





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



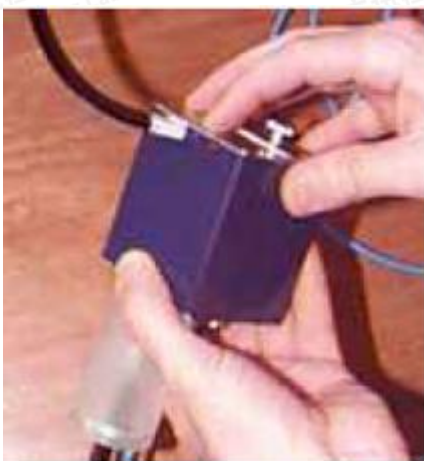


2.2. Isotropic E-field Probe EX3DV4

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



2.3. Data Acquisition Electronics (DAE)

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

2.4. SAM Twin Phantom

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

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

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



2.5. ELI Phantom

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

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

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



2.6. Device Holder for Transmitters



F-2. Device Holder for Transmitters

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





2.7. Measurement procedure

2.7.1. Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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





		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$
Minimum zoom scan volume	x, y, z		3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Step 4: Power reference measurement (drift)

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

2.7.2. Data Storage

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





2.7.3. Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ϵ
- Density	ρ	

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

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

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

$$V_i = U_i + U_i^2 \cdot cf / dcpi$$

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

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

cf = crest factor of exciting field (DASY parameter)

dcpi = diode compression point (DASY parameter)

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

E-field probes:

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





H-field probes:

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

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

Norm $_i$ = sensor sensitivity of channel i ($i = x, y, z$)

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

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

ϵ = equivalent tissue density in g/cm³

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

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

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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Scan code to check authenticity



3. SAR measurement variability and uncertainty

3.1. SAR measurement variability

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

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

3.2. SAR measurement uncertainty

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



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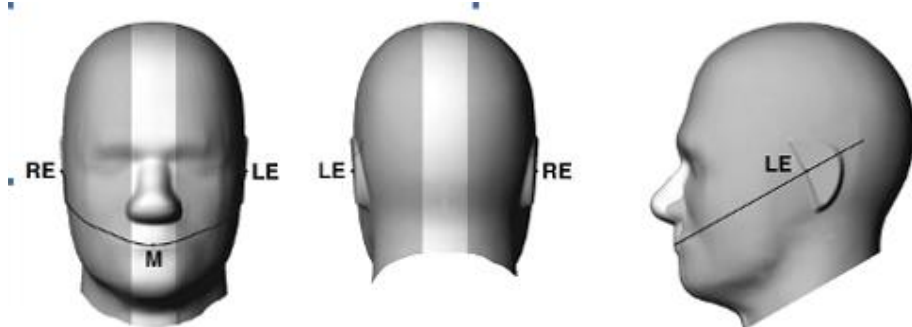
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Scan code to check authenticity

4. Description of Test Position

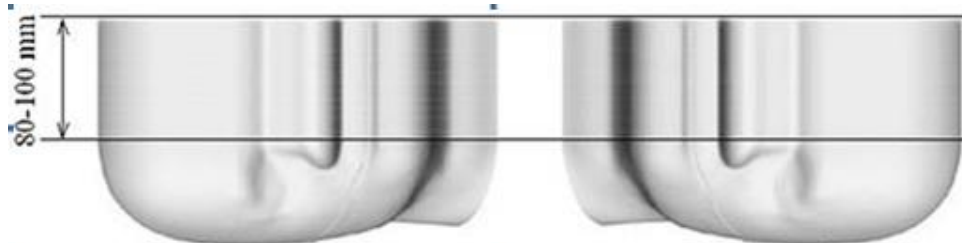
4.1. Head Exposure Condition

4.1.1. SAM Phantom Shape

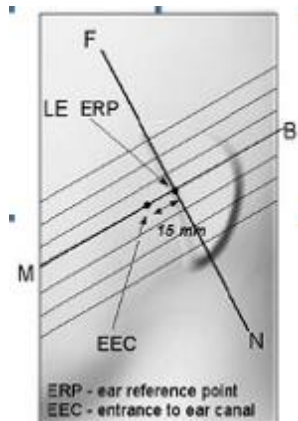


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

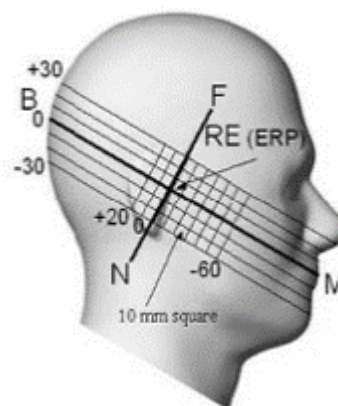
Note: The centre strip including the nose region has a different thickness tolerance.



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



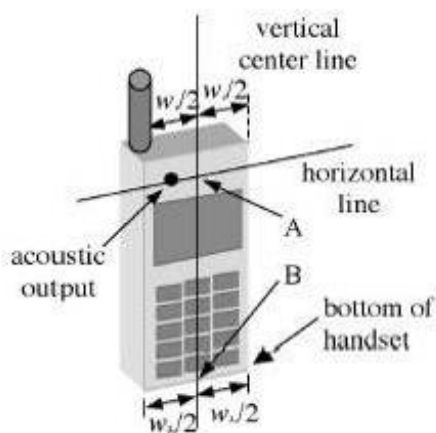
F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



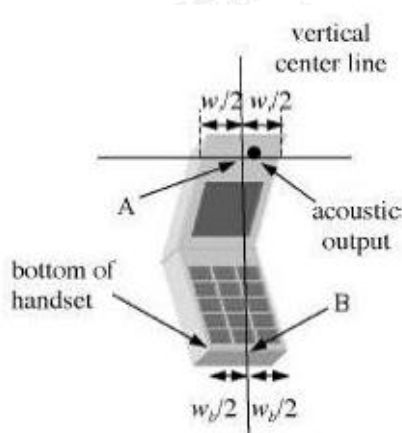
F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



4.1.2. EUT constructions



F-1. Handset vertical and horizontal reference lines—"fixed case"



F-2. Handset vertical and horizontal reference lines—"clam-shell case"

4.1.3. Definition of the "cheek" position

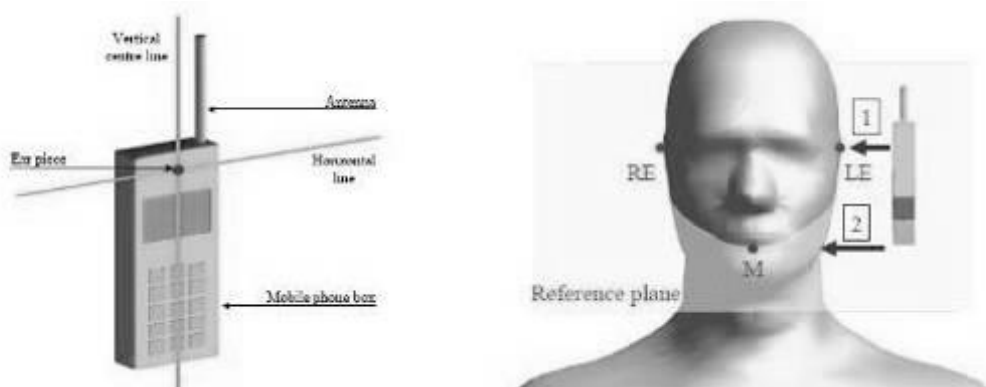
a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.

b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

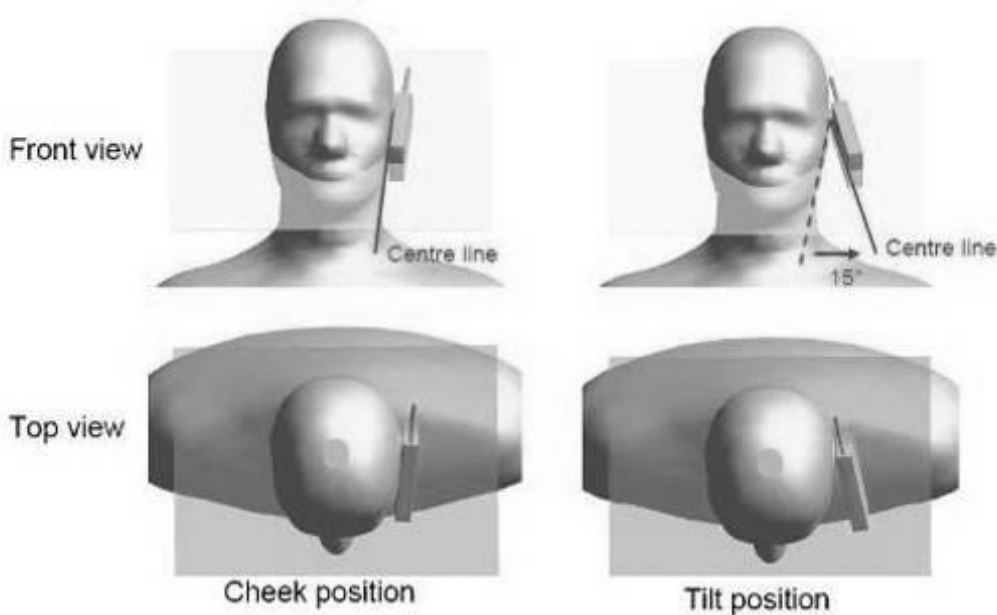


4.1.4. Definition of the “tilted” position

- Position the device in the “cheek” position described above;
- While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-1. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-2. “Cheek” and “tilt” positions of the mobile phone on the left side



4.2. Body Exposure Condition

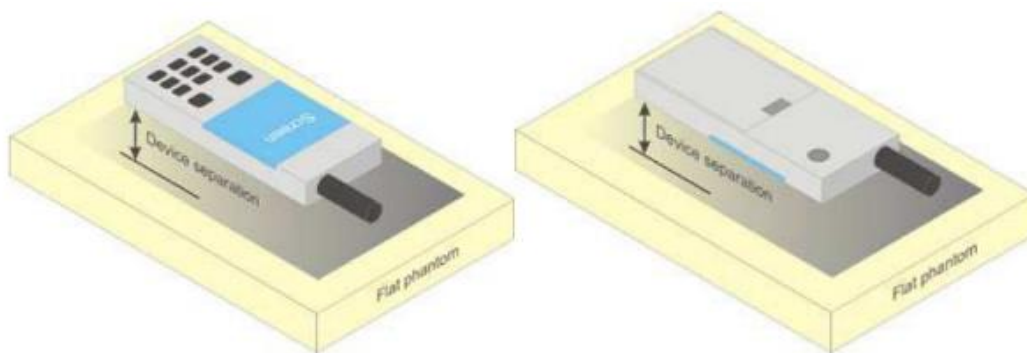
4.2.1. Body-worn accessory exposure conditions

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

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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

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



F-1. Test positions for body-worn devices





4.2.2. Wireless Router exposure conditions

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

4.3. Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet".

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, the Main antenna frequency bands are not required to test with 0mm for the Product Specific 10 g SAR.





5. SAR System Verification Procedure

5.1. Tissue Simulate Liquid

5.1.1. Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-900	1750-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99 ⁺ % Pure Sodium Chloride Water: De-ionized, 16 MΩ ⁺ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98 ⁺ % Pure Sucrose HEC: Hydroxyethyl Cellulose					
HSL5GHz is composed of the following ingredients: Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 2: Recipe of Tissue Simulate Liquid





5.1.2. Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the DAKS. The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^{\circ}\text{C}$.

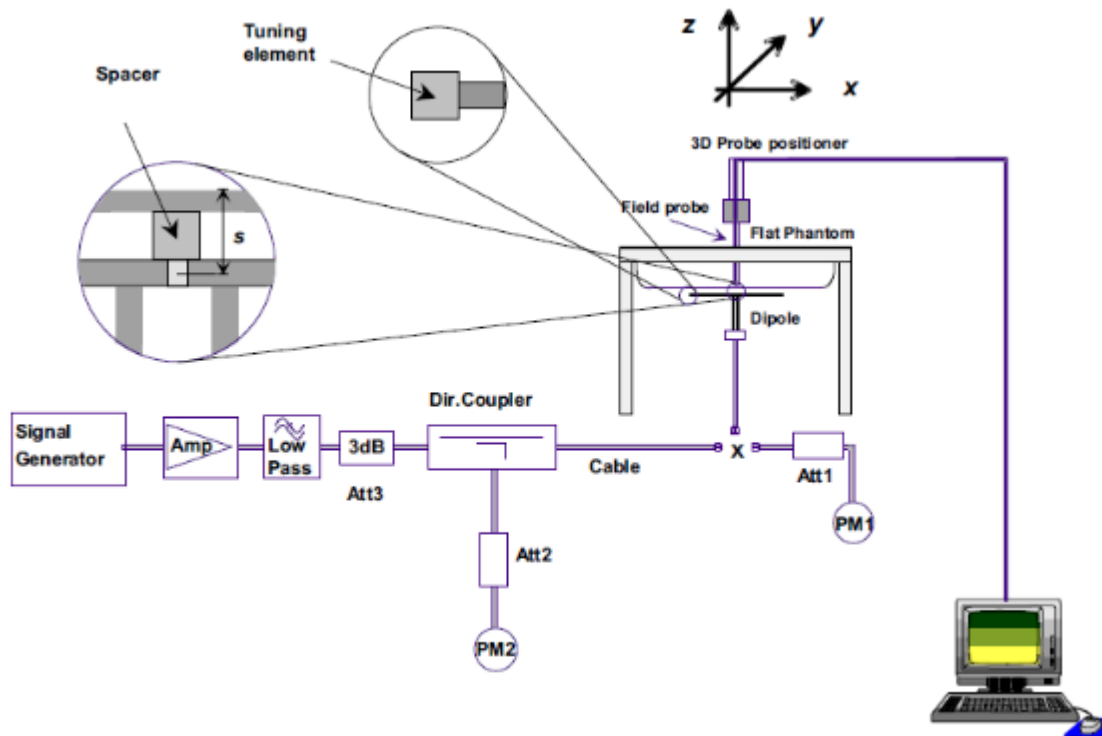
Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Liquid Temp. ($^{\circ}\text{C}$)	Measured Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	41.9 (39.81~44.00)	0.89 (0.85~0.93)	42.858	0.901	21.8	July 03, 2025
835 Head	835	41.5 (39.43~43.58)	0.9 (0.86~0.95)	40.515	0.879	21.9	July 04, 2025
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.566	1.368	22.1	July 05, 2025
1900 Head	1900	40 (38.00~42.00)	1.4 (1.33~1.47)	39.596	1.367	21.7	July 06, 2025
2450 Head	2450	39.2 (37.24~41.16)	1.8 (1.71~1.89)	39.605	1.822	21.9	July 07, 2025
2600 Head	2600	39 (37.05~40.95)	1.96 (1.86~2.06)	38.488	1.942	21.9	July 07, 2025
5250 Head	5250	36.0 (34.20~37.80)	4.66 (4.43~4.89)	36.324	4.729	21.8	July 08, 2025
5600 Head	5600	35.5 (33.73~37.28)	5.07 (4.82~5.32)	35.757	5.121	21.8	July 08, 2025
5750 Head	5750	35.3 (33.54~37.07)	5.27 (5.01~5.53)	35.743	5.365	21.8	July 08, 2025

Table 3: Measurement result of Tissue electric parameters



5.2. SAR System Check

The microwave circuit arrangement for system Check is sketched in F-1. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 100mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range $22\pm 2^{\circ}\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-1. the microwave circuit arrangement used for SAR system check

5.2.1. Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- There is no physical damage on the dipole;
- System check with specific dipole is within 10% of calibrated value;
- Return-loss is within 20% of calibrated measurement;
- Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

3)

D750V3 SN 119 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-06-15	-28.9		50.8		-3.54	





2024-06-14	-28.86	-0.14	50.4	-0.4	-3.51	0.03
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D835V2 SN 4d124 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-24	-35.6		50.2		1.65	
2024-10-23	-35.56	-0.11	49.8	-0.4	1.64	0.01

D1750V2 SN 1035 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-06-12	-38.3		48.8		-0.06	
2024-06-11	-38.54	0.63	48.5	-0.3	-0.04	0.02

D1900V2 SN 5d055 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-20	-26.1		51.3		4.84	
2024-10-19	-26.0	-0.38	51.5	0.2	4.85	0.01

D2450V2 SN 808 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-23	-26.3		51.4		4.73	
2024-10-22	-26.27	-0.11	51.2	-0.2	4.70	-0.03

D2600V2 SN 1071 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-06-20	-23.7		48.6		-6.32	
2024-06-19	-23.68	-0.08	48.5	-0.1	-6.30	0.02

D5GHzV2 SN 1046 Extend Dipole Calibrations(5250MHz)

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-23	-28.6		49.9		-3.71	
2024-10-22	-28.5	-0.35	49.6	-0.3	-3.70	0.01

D5GHzV2 SN 1046 Extend Dipole Calibrations(5600MHz)

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-23	-25.9		55.3		0.26	
2024-10-22	-25.6	-1.16	55.1	-0.2	0.24	-0.02

D5GHzV2 SN 1046 Extend Dipole Calibrations(5750MHz)

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-23	-26.8		54.6		1.18	
2024-10-22	-26.74	-0.22	54.9	0.3	1.20	0.02





5.2.2. Summary System Check Result(s)

Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3	Head	0.876	0.569	8.76	5.69	8.57 (7.71~9.43)	5.61 (5.05~6.17)	21.8	July 03, 2025
D835V2	Head	0.941	0.641	9.41	6.41	9.59 (8.63~10.55)	6.37 (5.73~7.01)	21.9	July 04, 2025
D1750V2	Head	3.54	1.91	35.40	19.10	35.9 (32.31~39.49)	18.9 (17.01~20.79)	22.1	July 05, 2025
D1900V2	Head	4.12	2.08	41.20	20.80	40.2 (36.18~44.22)	20.9 (18.81~22.99)	21.7	July 06, 2025
D2450V2	Head	5.38	2.47	53.80	24.70	53.5 (48.15~58.85)	24.8 (22.32~27.28)	21.9	July 07, 2025
D2600V2	Head	5.74	2.52	57.40	25.20	56.80 (51.12~62.48)	25.5 (22.95~28.05)	21.9	July 07, 2025
D5GHzV2	Head (5.25GHz)	7.84	2.24	78.40	22.40	78.1 (70.29~85.91)	22.2 (19.98~24.42)	21.8	July 08, 2025
	Head (5.60GHz)	8.03	2.33	80.30	23.30	81.9 (73.71~90.09)	23.1 (20.79~25.41)	21.8	July 08, 2025
	Head (5.75GHz)	7.75	2.12	77.50	21.20	77.4 (69.66~85.14)	21.6 (19.44~23.76)	21.8	July 08, 2025

Table 4: Please see the Appendix A





6. SAR measurement procedure

The measurement procedures are as follows:

6.1. Conducted power measurement

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

6.2. GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a System Simulator (SS) by air link. Using CMU200 the power level is set to "5" for GSM 850, set to "0" for GSM 1900. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 4. the EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 4.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

6.3. UMTS Test Configuration

3G SAR Test Reduction Procedure

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

Output power Verification

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

Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode.





Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

1) Body-Worn Accessory SAR

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

2) Handsets with Release 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the "Release 5 HSDPA Data Devices" section of this document, for the highest reported SAR body-worn accessory exposure configuration in 12.2 kbps RMC. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

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

Table 2: Subtests for UMTS Release 5 HSDPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
Note2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.
Note3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the "Release 6 HSPA Data Devices" section of this document, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the 'WCDMA Handset' and 'Release 5 HSDPA Data Devices' sections of this document

Table 3: Sub-Test 5 Setup for Release 6 HSUPA



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Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} 47/15 β_{ed2} 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

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

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

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

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

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

6.4. LTE Test Configuration

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 among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.8 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.

QPSK with 50% RB allocation

The procedures required for 1 RB allocation in section 4.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.9

QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in sections 4.2.1 and 4.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

6.5. Power Reduction

The product without any power reduction.

6.6. Power Drift

To control the output power stability during the SAR test, SAR system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. This ensures that the power drift during one measurement is within ± 0.2 dB.



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7. TEST CONDITIONS AND RESULTS

7.1. Conducted Power Results

According KDB 447498 D01 General RF Exposure Guidance v06 Section 4.1 2) states that "Unless it is specified differently in the published RF exposure KDB procedures, these requirements also apply to test reduction and test exclusion considerations. Time-averaged maximum conducted output power applies to SAR and, as required by § 2.1091(c), time-averaged ERP applies to MPE. When an antenna port is not available on the device to support conducted power measurement, such as FRS and certain Part 15 transmitters with built-in integral antennas, the maximum output power allowed for production units should be used to determine RF exposure test exclusion and compliance."

<GSM Conducted Power>

General Note:

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. According to October 2013TCB Workshop, for GSM / GPRS , the number of time slots to test for SAR should correspond to the highest frame-average maximum output power configuration, considering the possibility of e.g. 3rd party VoIP operation for head and body-worn SAR testing, the EUT was set in GPRS (4Tx slot) for GSM850/GSM1900 band due to their highest frame-average power.
3. For hotspot mode SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (4 Tx slots) for GSM850/GSM1900 band due to its highest frame-average power.

7.1.1. Conducted power measurement results for GSM850

GSM 850										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	32.68	32.72	32.67	33.00	-9.19	23.49	23.53	23.48	23.81
GPRS(GMSK)	1 TX Slot	32.51	32.56	32.53	33.00	-9.19	23.32	23.37	23.34	23.81
	2 TX Slots	30.99	31.01	30.97	31.50	-6.18	24.81	24.83	24.79	25.32
	3 TX Slots	29.50	29.48	29.46	30.00	-4.42	25.08	25.06	25.04	25.58
	4 TX Slots	27.98	27.97	27.94	28.00	-3.17	24.81	24.80	24.77	24.83
EGPRS(8PSK)	1 TX Slot	26.01	26.01	25.93	27.00	-9.19	16.82	16.82	16.74	17.81
	2 TX Slots	24.47	24.50	24.47	25.00	-6.18	18.29	18.32	18.29	18.82
	3 TX Slots	23.00	22.99	22.97	24.00	-4.42	18.58	18.57	18.55	19.58
	4 TX Slots	21.46	21.48	21.49	22.00	-3.17	18.29	18.31	18.32	18.83

7.1.2. Conducted power measurement results for PCS1900

GSM 1900										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	29.70	29.69	29.67	30.00	-9.19	20.51	20.50	20.48	20.81
GPRS(GMSK)	1 TX Slot	29.53	29.53	29.52	30.00	-9.19	20.34	20.34	20.33	20.81
	2 TX Slots	27.98	28.00	27.93	28.50	-6.18	21.80	21.82	21.75	22.32
	3 TX Slots	26.45	26.47	26.48	27.00	-4.42	22.03	22.05	22.06	22.58
	4 TX Slots	24.95	25.01	24.94	25.50	-3.17	21.78	21.84	21.77	22.33
EGPRS(8PSK)	1 TX Slot	25.47	25.49	25.43	26.00	-9.19	16.28	16.30	16.24	16.81
	2 TX Slots	24.00	24.03	23.95	25.00	-6.18	17.82	17.85	17.77	18.82
	3 TX Slots	22.45	22.53	22.43	23.00	-4.42	18.03	18.11	18.01	18.58
	4 TX Slots	21.00	21.00	20.96	22.00	-3.17	17.83	17.83	17.79	18.83

Note:

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

No. of timeslots	1	2	3	4
------------------	---	---	---	---





Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

2) The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

3) Frame-averaged power = $10 \times \log(\text{Burst-averaged power mW} \times \text{Slot used} / 8)$

When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used

When multiple slots can be used, SAR should be tested to account for the maximum source-based time-averaged output power.

<UMTS Conducted Power>

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

HSDPA Setup Configuration:

- The EUT was connected to Base Station CMW500 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting:
 - Set Gain Factors (β_c and β_d) and parameters were set according to each
 - Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - Set RMC 12.2Kbps + HSDPA mode.
 - Set Cell Power = -86 dBm
 - Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - Select HSDPA Uplink Parameters
 - Set Delta ACK, Delta NACK and Delta CQI = 8
 - Set Ack-Nack Repetition Factor to 3
 - Set CQI Feedback Cycle (k) to 4 ms
 - Set CQI Repetition Factor to 2
 - Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

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

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

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

Setup Configuration

HSUPA Setup Configuration:

- The EUT was connected to Base Station R&S CMW500 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.





- c. A call was established between EUT and Base Station with following setting * :
- Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - Set Cell Power = -86 dBm
 - Set Channel Type = 12.2k + HSPA
 - Set UE Target Power
 - Power Ctrl Mode= Alternating bits
 - Set and observe the E-TFCI
 - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

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

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

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

Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

General Note

- Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2kbps can be excluded.
- By design, AMR and HSDPA/HSUPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.
- It is expected by the manufacturer that MPR for some HSDPA/HSUPA subtests may differ from the specification of 3GPP, according to the chipset implementation in this model. The implementation and expected deviation are detailed in tune-up procedure exhibit.



**7.1.3. Conducted Power Measurement Results(WCDMA Band II)**

Item	Band	WCDMA Band II result (dBm)			
		Channel/Frequency(MHz)			
	sub-test	9262/1852.4	9400/1880	9538/1907.6	Tune up
RMC	12.2kbps RMC	23.52	23.55	23.56	24.00
HSDPA	Sub –Test 1	22.94	22.85	22.92	23.00
	Sub –Test 2	22.74	22.71	22.81	23.00
	Sub –Test 3	22.78	22.84	22.86	23.00
	Sub –Test 4	22.84	22.82	22.74	23.00
HSUPA	Sub –Test 1	22.79	22.71	22.81	23.00
	Sub –Test 2	22.74	22.71	22.90	23.00
	Sub –Test 3	22.81	22.74	22.89	23.00
	Sub –Test 4	22.75	22.71	22.88	23.00
	Sub –Test 5	22.85	22.70	22.88	23.00

Note:

1) when the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.

7.1.4. Conducted Power Measurement Results(WCDMA Band IV)

Item	Band	WCDMA Band IV result (dBm)			
		Channel/Frequency(MHz)			
	sub-test	1312/1712.4	1413/1732.6	1513/1752.6	Tune up
RMC	12.2kbps RMC	23.56	23.38	23.44	24.00
HSDPA	Sub –Test 1	22.83	22.82	22.85	23.00
	Sub –Test 2	22.81	22.84	22.85	23.00
	Sub –Test 3	22.84	22.84	22.76	23.00
	Sub –Test 4	22.89	22.72	22.84	23.00
HSUPA	Sub –Test 1	22.85	22.85	22.71	23.00
	Sub –Test 2	22.83	22.77	22.84	23.00
	Sub –Test 3	22.70	22.80	22.88	23.00
	Sub –Test 4	22.72	22.88	22.83	23.00
	Sub –Test 5	22.72	22.78	22.74	23.00

Note:

1) when the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.

7.1.5. Conducted Power Measurement Results(WCDMA Band V)

Item	Band	WCDMA Band V result (dBm)			
		Channel/Frequency(MHz)			
	sub-test	4132/826.4	4182/836.4	4233/846.6	Tune up
RMC	12.2kbps RMC	23.48	23.48	23.46	24.00
HSDPA	Sub –Test 1	22.34	22.46	22.60	23.00
	Sub –Test 2	23.39	23.61	23.42	24.00
	Sub –Test 3	23.49	23.43	23.35	24.00
	Sub –Test 4	23.60	23.52	23.55	24.00
HSUPA	Sub –Test 1	23.36	23.34	23.60	24.00
	Sub –Test 2	23.47	23.60	23.38	24.00
	Sub –Test 3	23.54	23.35	23.32	24.00
	Sub –Test 4	23.61	23.54	23.41	24.00
	Sub –Test 5	23.48	23.53	23.56	24.00

Note:

1) when the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.



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7.1.6. Conducted Power Measurement Results(LTE Band 2)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band2	1.4MHz	QPSK	18607	1RB#0	23.86	24.00
Band2	1.4MHz	16QAM	18607	1RB#0	23.62	24.00
Band2	1.4MHz	QPSK	18607	1RB#2	23.95	24.00
Band2	1.4MHz	16QAM	18607	1RB#2	23.61	24.00
Band2	1.4MHz	QPSK	18607	1RB#5	23.86	24.00
Band2	1.4MHz	16QAM	18607	1RB#5	23.62	24.00
Band2	1.4MHz	QPSK	18607	3RB#0	23.97	24.00
Band2	1.4MHz	16QAM	18607	3RB#0	22.59	23.00
Band2	1.4MHz	QPSK	18607	3RB#1	23.94	24.00
Band2	1.4MHz	16QAM	18607	3RB#1	22.56	23.00
Band2	1.4MHz	QPSK	18607	3RB#3	23.96	24.00
Band2	1.4MHz	16QAM	18607	3RB#3	22.30	23.00
Band2	1.4MHz	QPSK	18607	6RB#0	22.69	23.00
Band2	1.4MHz	16QAM	18607	6RB#0	22.11	23.00
Band2	1.4MHz	QPSK	18900	1RB#0	22.05	23.00
Band2	1.4MHz	16QAM	18900	1RB#0	21.25	22.00
Band2	1.4MHz	QPSK	18900	1RB#2	21.97	22.00
Band2	1.4MHz	16QAM	18900	1RB#2	21.28	22.00
Band2	1.4MHz	QPSK	18900	1RB#5	22.10	23.00
Band2	1.4MHz	16QAM	18900	1RB#5	21.52	22.00
Band2	1.4MHz	QPSK	18900	3RB#0	22.02	23.00
Band2	1.4MHz	16QAM	18900	3RB#0	20.74	21.00
Band2	1.4MHz	QPSK	18900	3RB#1	22.01	23.00
Band2	1.4MHz	16QAM	18900	3RB#1	20.83	21.00
Band2	1.4MHz	QPSK	18900	3RB#3	22.02	23.00
Band2	1.4MHz	16QAM	18900	3RB#3	20.84	21.00
Band2	1.4MHz	QPSK	18900	6RB#0	21.16	22.00
Band2	1.4MHz	16QAM	18900	6RB#0	20.16	21.00
Band2	1.4MHz	QPSK	19193	1RB#0	22.97	23.00
Band2	1.4MHz	16QAM	19193	1RB#0	22.22	23.00
Band2	1.4MHz	QPSK	19193	1RB#2	23.07	24.00
Band2	1.4MHz	16QAM	19193	1RB#2	22.30	23.00
Band2	1.4MHz	QPSK	19193	1RB#5	23.05	24.00
Band2	1.4MHz	16QAM	19193	1RB#5	22.32	23.00
Band2	1.4MHz	QPSK	19193	3RB#0	23.17	24.00
Band2	1.4MHz	16QAM	19193	3RB#0	21.98	22.00
Band2	1.4MHz	QPSK	19193	3RB#1	23.16	24.00
Band2	1.4MHz	16QAM	19193	3RB#1	21.99	22.00
Band2	1.4MHz	QPSK	19193	3RB#3	23.11	24.00
Band2	1.4MHz	16QAM	19193	3RB#3	22.03	23.00
Band2	1.4MHz	QPSK	19193	6RB#0	22.27	23.00
Band2	1.4MHz	16QAM	19193	6RB#0	21.48	22.00
Band2	3MHz	QPSK	18615	1RB#0	20.52	21.00
Band2	3MHz	16QAM	18615	1RB#0	19.59	20.00
Band2	3MHz	QPSK	18615	1RB#8	20.60	21.00
Band2	3MHz	16QAM	18615	1RB#8	19.54	20.00
Band2	3MHz	QPSK	18615	1RB#14	20.62	21.00
Band2	3MHz	16QAM	18615	1RB#14	19.46	20.00
Band2	3MHz	QPSK	18615	8RB#0	19.78	20.00
Band2	3MHz	16QAM	18615	8RB#0	18.94	19.00
Band2	3MHz	QPSK	18615	8RB#4	19.80	20.00
Band2	3MHz	16QAM	18615	8RB#4	19.09	20.00
Band2	3MHz	QPSK	18615	8RB#7	19.74	20.00
Band2	3MHz	16QAM	18615	8RB#7	19.06	20.00
Band2	3MHz	QPSK	18615	15RB#0	19.65	20.00
Band2	3MHz	16QAM	18615	15RB#0	18.91	19.00
Band2	3MHz	QPSK	18900	1RB#0	21.04	22.00
Band2	3MHz	16QAM	18900	1RB#0	20.04	21.00
Band2	3MHz	QPSK	18900	1RB#8	21.15	22.00



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Band2	3MHz	16QAM	18900	1RB#8	20.16	21.00
Band2	3MHz	QPSK	18900	1RB#14	21.09	22.00
Band2	3MHz	16QAM	18900	1RB#14	20.21	21.00
Band2	3MHz	QPSK	18900	8RB#0	20.21	21.00
Band2	3MHz	16QAM	18900	8RB#0	19.47	20.00
Band2	3MHz	QPSK	18900	8RB#4	20.22	21.00
Band2	3MHz	16QAM	18900	8RB#4	19.47	20.00
Band2	3MHz	QPSK	18900	8RB#7	20.30	21.00
Band2	3MHz	16QAM	18900	8RB#7	19.54	20.00
Band2	3MHz	QPSK	18900	15RB#0	20.19	21.00
Band2	3MHz	16QAM	18900	15RB#0	19.39	20.00
Band2	3MHz	QPSK	19185	1RB#0	23.03	24.00
Band2	3MHz	16QAM	19185	1RB#0	21.05	22.00
Band2	3MHz	QPSK	19185	1RB#8	22.20	23.00
Band2	3MHz	16QAM	19185	1RB#8	21.30	22.00
Band2	3MHz	QPSK	19185	1RB#14	22.17	23.00
Band2	3MHz	16QAM	19185	1RB#14	21.28	22.00
Band2	3MHz	QPSK	19185	8RB#0	21.32	22.00
Band2	3MHz	16QAM	19185	8RB#0	20.66	21.00
Band2	3MHz	QPSK	19185	8RB#4	21.33	22.00
Band2	3MHz	16QAM	19185	8RB#4	20.66	21.00
Band2	3MHz	QPSK	19185	8RB#7	21.25	22.00
Band2	3MHz	16QAM	19185	8RB#7	20.56	21.00
Band2	3MHz	QPSK	19185	15RB#0	21.28	22.00
Band2	3MHz	16QAM	19185	15RB#0	20.36	21.00
Band2	5MHz	QPSK	18625	1RB#0	20.67	21.00
Band2	5MHz	16QAM	18625	1RB#0	19.25	20.00
Band2	5MHz	QPSK	18625	1RB#12	20.68	21.00
Band2	5MHz	16QAM	18625	1RB#12	19.12	20.00
Band2	5MHz	QPSK	18625	1RB#24	20.70	21.00
Band2	5MHz	16QAM	18625	1RB#24	19.15	20.00
Band2	5MHz	QPSK	18625	12RB#0	19.79	20.00
Band2	5MHz	16QAM	18625	12RB#0	18.83	19.00
Band2	5MHz	QPSK	18625	12RB#6	19.73	20.00
Band2	5MHz	16QAM	18625	12RB#6	18.84	19.00
Band2	5MHz	QPSK	18625	12RB#13	19.70	20.00
Band2	5MHz	16QAM	18625	12RB#13	18.73	19.00
Band2	5MHz	QPSK	18625	25RB#0	19.68	20.00
Band2	5MHz	16QAM	18625	25RB#0	18.86	19.00
Band2	5MHz	QPSK	18900	1RB#0	21.09	22.00
Band2	5MHz	16QAM	18900	1RB#0	19.62	20.00
Band2	5MHz	QPSK	18900	1RB#12	21.19	22.00
Band2	5MHz	16QAM	18900	1RB#12	19.66	20.00
Band2	5MHz	QPSK	18900	1RB#24	21.35	22.00
Band2	5MHz	16QAM	18900	1RB#24	19.68	20.00
Band2	5MHz	QPSK	18900	12RB#0	20.27	21.00
Band2	5MHz	16QAM	18900	12RB#0	19.31	20.00
Band2	5MHz	QPSK	18900	12RB#6	20.28	21.00
Band2	5MHz	16QAM	18900	12RB#6	19.32	20.00
Band2	5MHz	QPSK	18900	12RB#13	20.32	21.00
Band2	5MHz	16QAM	18900	12RB#13	19.36	20.00
Band2	5MHz	QPSK	18900	25RB#0	20.20	21.00
Band2	5MHz	16QAM	18900	25RB#0	19.38	20.00
Band2	5MHz	QPSK	19175	1RB#0	22.15	23.00
Band2	5MHz	16QAM	19175	1RB#0	20.71	21.00
Band2	5MHz	QPSK	19175	1RB#12	22.20	23.00
Band2	5MHz	16QAM	19175	1RB#12	20.71	21.00
Band2	5MHz	QPSK	19175	1RB#24	22.31	23.00
Band2	5MHz	16QAM	19175	1RB#24	20.76	21.00
Band2	5MHz	QPSK	19175	12RB#0	21.26	22.00
Band2	5MHz	16QAM	19175	12RB#0	20.32	21.00
Band2	5MHz	QPSK	19175	12RB#6	21.28	22.00
Band2	5MHz	16QAM	19175	12RB#6	20.34	21.00
Band2	5MHz	QPSK	19175	12RB#13	21.32	22.00
Band2	5MHz	16QAM	19175	12RB#13	20.39	21.00



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Band2	5MHz	QPSK	19175	25RB#0	21.28	22.00
Band2	5MHz	16QAM	19175	25RB#0	20.51	21.00
Band2	10MHz	QPSK	18650	1RB#0	20.64	21.00
Band2	10MHz	16QAM	18650	1RB#0	19.77	20.00
Band2	10MHz	QPSK	18650	1RB#24	20.60	21.00
Band2	10MHz	16QAM	18650	1RB#24	19.56	20.00
Band2	10MHz	QPSK	18650	1RB#49	20.65	21.00
Band2	10MHz	16QAM	18650	1RB#49	19.59	20.00
Band2	10MHz	QPSK	18650	25RB#0	19.71	20.00
Band2	10MHz	16QAM	18650	25RB#0	18.76	19.00
Band2	10MHz	QPSK	18650	25RB#12	19.67	20.00
Band2	10MHz	16QAM	18650	25RB#12	18.77	19.00
Band2	10MHz	QPSK	18650	25RB#25	19.77	20.00
Band2	10MHz	16QAM	18650	25RB#25	18.86	19.00
Band2	10MHz	QPSK	18650	50RB#0	19.81	20.00
Band2	10MHz	16QAM	18650	50RB#0	18.82	19.00
Band2	10MHz	QPSK	18900	1RB#0	20.84	21.00
Band2	10MHz	16QAM	18900	1RB#0	20.21	21.00
Band2	10MHz	QPSK	18900	1RB#24	21.06	22.00
Band2	10MHz	16QAM	18900	1RB#24	20.39	21.00
Band2	10MHz	QPSK	18900	1RB#49	21.20	22.00
Band2	10MHz	16QAM	18900	1RB#49	20.06	21.00
Band2	10MHz	QPSK	18900	25RB#0	20.11	21.00
Band2	10MHz	16QAM	18900	25RB#0	19.22	20.00
Band2	10MHz	QPSK	18900	25RB#12	20.13	21.00
Band2	10MHz	16QAM	18900	25RB#12	19.22	20.00
Band2	10MHz	QPSK	18900	25RB#25	20.31	21.00
Band2	10MHz	16QAM	18900	25RB#25	19.40	20.00
Band2	10MHz	QPSK	18900	50RB#0	20.22	21.00
Band2	10MHz	16QAM	18900	50RB#0	19.34	20.00
Band2	10MHz	QPSK	19150	1RB#0	22.79	23.00
Band2	10MHz	16QAM	19150	1RB#0	21.01	22.00
Band2	10MHz	QPSK	19150	1RB#24	22.04	23.00
Band2	10MHz	16QAM	19150	1RB#24	21.29	22.00
Band2	10MHz	QPSK	19150	1RB#49	22.18	23.00
Band2	10MHz	16QAM	19150	1RB#49	21.07	22.00
Band2	10MHz	QPSK	19150	25RB#0	20.99	21.00
Band2	10MHz	16QAM	19150	25RB#0	20.19	21.00
Band2	10MHz	QPSK	19150	25RB#12	21.10	22.00
Band2	10MHz	16QAM	19150	25RB#12	20.19	21.00
Band2	10MHz	QPSK	19150	25RB#25	21.14	22.00
Band2	10MHz	16QAM	19150	25RB#25	20.33	21.00
Band2	10MHz	QPSK	19150	50RB#0	21.13	22.00
Band2	10MHz	16QAM	19150	50RB#0	20.34	21.00
Band2	15MHz	QPSK	18675	1RB#0	20.57	21.00
Band2	15MHz	16QAM	18675	1RB#0	19.61	20.00
Band2	15MHz	QPSK	18675	1RB#38	20.63	21.00
Band2	15MHz	16QAM	18675	1RB#38	19.82	20.00
Band2	15MHz	QPSK	18675	1RB#74	20.69	21.00
Band2	15MHz	16QAM	18675	1RB#74	19.90	20.00
Band2	15MHz	QPSK	18675	38RB#0	19.85	20.00
Band2	15MHz	16QAM	18675	38RB#0	19.85	20.00
Band2	15MHz	QPSK	18675	38RB#18	19.85	20.00
Band2	15MHz	16QAM	18675	38RB#18	19.84	20.00
Band2	15MHz	QPSK	18675	38RB#37	19.83	20.00
Band2	15MHz	16QAM	18675	38RB#37	19.84	20.00
Band2	15MHz	QPSK	18675	75RB#0	19.83	20.00
Band2	15MHz	16QAM	18675	75RB#0	18.96	19.00
Band2	15MHz	QPSK	18900	1RB#0	20.91	21.00
Band2	15MHz	16QAM	18900	1RB#0	20.15	21.00
Band2	15MHz	QPSK	18900	1RB#38	21.06	22.00
Band2	15MHz	16QAM	18900	1RB#38	20.32	21.00
Band2	15MHz	QPSK	18900	1RB#74	21.35	22.00
Band2	15MHz	16QAM	18900	1RB#74	20.59	21.00
Band2	15MHz	QPSK	18900	38RB#0	20.19	21.00



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Band2	15MHz	16QAM	18900	38RB#0	20.19	21.00
Band2	15MHz	QPSK	18900	38RB#18	20.19	21.00
Band2	15MHz	16QAM	18900	38RB#18	20.19	21.00
Band2	15MHz	QPSK	18900	38RB#37	20.19	21.00
Band2	15MHz	16QAM	18900	38RB#37	20.19	21.00
Band2	15MHz	QPSK	18900	75RB#0	20.27	21.00
Band2	15MHz	16QAM	18900	75RB#0	19.31	20.00
Band2	15MHz	QPSK	19125	1RB#0	21.62	22.00
Band2	15MHz	16QAM	19125	1RB#0	20.81	21.00
Band2	15MHz	QPSK	19125	1RB#38	21.92	22.00
Band2	15MHz	16QAM	19125	1RB#38	21.07	22.00
Band2	15MHz	QPSK	19125	1RB#74	22.11	23.00
Band2	15MHz	16QAM	19125	1RB#74	21.29	22.00
Band2	15MHz	QPSK	19125	38RB#0	21.15	22.00
Band2	15MHz	16QAM	19125	38RB#0	21.15	22.00
Band2	15MHz	QPSK	19125	38RB#18	21.15	22.00
Band2	15MHz	16QAM	19125	38RB#18	21.15	22.00
Band2	15MHz	QPSK	19125	38RB#37	21.16	22.00
Band2	15MHz	16QAM	19125	38RB#37	21.16	22.00
Band2	15MHz	QPSK	19125	75RB#0	21.16	22.00
Band2	15MHz	16QAM	19125	75RB#0	20.12	21.00
Band2	20MHz	QPSK	18700	1RB#0	20.89	21.00
Band2	20MHz	16QAM	18700	1RB#0	19.64	20.00
Band2	20MHz	QPSK	18700	1RB#49	20.95	21.00
Band2	20MHz	16QAM	18700	1RB#49	19.72	20.00
Band2	20MHz	QPSK	18700	1RB#99	21.09	22.00
Band2	20MHz	16QAM	18700	1RB#99	19.87	20.00
Band2	20MHz	QPSK	18700	50RB#0	19.74	20.00
Band2	20MHz	16QAM	18700	50RB#0	18.90	19.00
Band2	20MHz	QPSK	18700	50RB#25	19.75	20.00
Band2	20MHz	16QAM	18700	50RB#25	18.90	19.00
Band2	20MHz	QPSK	18700	50RB#50	19.74	20.00
Band2	20MHz	16QAM	18700	50RB#50	19.07	20.00
Band2	20MHz	QPSK	18700	100RB#0	19.86	20.00
Band2	20MHz	16QAM	18700	100RB#0	18.94	19.00
Band2	20MHz	QPSK	18900	1RB#0	20.93	21.00
Band2	20MHz	16QAM	18900	1RB#0	20.14	21.00
Band2	20MHz	QPSK	18900	1RB#49	21.11	22.00
Band2	20MHz	16QAM	18900	1RB#49	20.38	21.00
Band2	20MHz	QPSK	18900	1RB#99	21.54	22.00
Band2	20MHz	16QAM	18900	1RB#99	20.70	21.00
Band2	20MHz	QPSK	18900	50RB#0	20.10	21.00
Band2	20MHz	16QAM	18900	50RB#0	19.25	20.00
Band2	20MHz	QPSK	18900	50RB#25	20.12	21.00
Band2	20MHz	16QAM	18900	50RB#25	19.37	20.00
Band2	20MHz	QPSK	18900	50RB#50	20.37	21.00
Band2	20MHz	16QAM	18900	50RB#50	19.50	20.00
Band2	20MHz	QPSK	18900	100RB#0	20.28	21.00
Band2	20MHz	16QAM	18900	100RB#0	19.40	20.00
Band2	20MHz	QPSK	19100	1RB#0	21.51	22.00
Band2	20MHz	16QAM	19100	1RB#0	20.74	21.00
Band2	20MHz	QPSK	19100	1RB#49	21.90	22.00
Band2	20MHz	16QAM	19100	1RB#49	21.17	22.00
Band2	20MHz	QPSK	19100	1RB#99	22.23	23.00
Band2	20MHz	16QAM	19100	1RB#99	21.51	22.00
Band2	20MHz	QPSK	19100	50RB#0	20.81	21.00
Band2	20MHz	16QAM	19100	50RB#0	20.06	21.00
Band2	20MHz	QPSK	19100	50RB#25	20.72	21.00
Band2	20MHz	16QAM	19100	50RB#25	20.06	21.00
Band2	20MHz	QPSK	19100	50RB#50	21.26	22.00
Band2	20MHz	16QAM	19100	50RB#50	20.36	21.00
Band2	20MHz	QPSK	19100	100RB#0	21.07	22.00
Band2	20MHz	16QAM	19100	100RB#0	20.17	21.00



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**7.1.7. Conducted Power Measurement Results(LTE Band 4)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band4	1.4MHz	QPSK	19957	1RB#0	20.86	21.00
Band4	1.4MHz	16QAM	19957	1RB#0	19.99	20.00
Band4	1.4MHz	QPSK	19957	1RB#2	20.88	21.00
Band4	1.4MHz	16QAM	19957	1RB#2	20.03	21.00
Band4	1.4MHz	QPSK	19957	1RB#5	20.90	21.00
Band4	1.4MHz	16QAM	19957	1RB#5	19.99	20.00
Band4	1.4MHz	QPSK	19957	3RB#0	20.79	21.00
Band4	1.4MHz	16QAM	19957	3RB#0	19.89	20.00
Band4	1.4MHz	QPSK	19957	3RB#1	20.81	21.00
Band4	1.4MHz	16QAM	19957	3RB#1	19.93	20.00
Band4	1.4MHz	QPSK	19957	3RB#3	20.79	21.00
Band4	1.4MHz	16QAM	19957	3RB#3	19.86	20.00
Band4	1.4MHz	QPSK	19957	6RB#0	19.91	20.00
Band4	1.4MHz	16QAM	19957	6RB#0	19.29	20.00
Band4	1.4MHz	QPSK	20175	1RB#0	21.53	22.00
Band4	1.4MHz	16QAM	20175	1RB#0	21.24	22.00
Band4	1.4MHz	QPSK	20175	1RB#2	21.55	22.00
Band4	1.4MHz	16QAM	20175	1RB#2	21.21	22.00
Band4	1.4MHz	QPSK	20175	1RB#5	21.56	22.00
Band4	1.4MHz	16QAM	20175	1RB#5	21.28	22.00
Band4	1.4MHz	QPSK	20175	3RB#0	21.48	22.00
Band4	1.4MHz	16QAM	20175	3RB#0	20.47	21.00
Band4	1.4MHz	QPSK	20175	3RB#1	21.61	22.00
Band4	1.4MHz	16QAM	20175	3RB#1	20.46	21.00
Band4	1.4MHz	QPSK	20175	3RB#3	21.56	22.00
Band4	1.4MHz	16QAM	20175	3RB#3	20.59	21.00
Band4	1.4MHz	QPSK	20175	6RB#0	20.69	21.00
Band4	1.4MHz	16QAM	20175	6RB#0	20.00	21.00
Band4	1.4MHz	QPSK	20393	1RB#0	21.97	22.00
Band4	1.4MHz	16QAM	20393	1RB#0	21.53	22.00
Band4	1.4MHz	QPSK	20393	1RB#2	21.95	22.00
Band4	1.4MHz	16QAM	20393	1RB#2	21.57	22.00
Band4	1.4MHz	QPSK	20393	1RB#5	22.09	23.00
Band4	1.4MHz	16QAM	20393	1RB#5	21.92	22.00
Band4	1.4MHz	QPSK	20393	3RB#0	22.03	23.00
Band4	1.4MHz	16QAM	20393	3RB#0	21.12	22.00
Band4	1.4MHz	QPSK	20393	3RB#1	21.98	22.00
Band4	1.4MHz	16QAM	20393	3RB#1	21.13	22.00
Band4	1.4MHz	QPSK	20393	3RB#3	22.01	23.00
Band4	1.4MHz	16QAM	20393	3RB#3	20.60	21.00
Band4	1.4MHz	QPSK	20393	6RB#0	20.98	21.00
Band4	1.4MHz	16QAM	20393	6RB#0	20.27	21.00
Band4	3MHz	QPSK	19965	1RB#0	23.11	24.00
Band4	3MHz	16QAM	19965	1RB#0	22.29	23.00
Band4	3MHz	QPSK	19965	1RB#8	23.18	24.00
Band4	3MHz	16QAM	19965	1RB#8	22.26	23.00
Band4	3MHz	QPSK	19965	1RB#14	23.03	24.00
Band4	3MHz	16QAM	19965	1RB#14	22.24	23.00
Band4	3MHz	QPSK	19965	8RB#0	22.43	23.00
Band4	3MHz	16QAM	19965	8RB#0	21.75	22.00
Band4	3MHz	QPSK	19965	8RB#4	22.36	23.00
Band4	3MHz	16QAM	19965	8RB#4	21.75	22.00
Band4	3MHz	QPSK	19965	8RB#7	22.35	23.00
Band4	3MHz	16QAM	19965	8RB#7	21.72	22.00
Band4	3MHz	QPSK	19965	15RB#0	22.24	23.00
Band4	3MHz	16QAM	19965	15RB#0	21.54	22.00
Band4	3MHz	QPSK	20175	1RB#0	23.26	24.00
Band4	3MHz	16QAM	20175	1RB#0	21.83	22.00
Band4	3MHz	QPSK	20175	1RB#8	23.20	24.00
Band4	3MHz	16QAM	20175	1RB#8	21.81	22.00



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Band4	3MHz	QPSK	20175	1RB#14	23.19	24.00
Band4	3MHz	16QAM	20175	1RB#14	21.80	22.00
Band4	3MHz	QPSK	20175	8RB#0	22.44	23.00
Band4	3MHz	16QAM	20175	8RB#0	21.68	22.00
Band4	3MHz	QPSK	20175	8RB#4	22.36	23.00
Band4	3MHz	16QAM	20175	8RB#4	21.67	22.00
Band4	3MHz	QPSK	20175	8RB#7	22.32	23.00
Band4	3MHz	16QAM	20175	8RB#7	21.77	22.00
Band4	3MHz	QPSK	20175	15RB#0	22.35	23.00
Band4	3MHz	16QAM	20175	15RB#0	21.41	22.00
Band4	3MHz	QPSK	20385	1RB#0	23.05	24.00
Band4	3MHz	16QAM	20385	1RB#0	22.31	23.00
Band4	3MHz	QPSK	20385	1RB#8	23.07	24.00
Band4	3MHz	16QAM	20385	1RB#8	22.29	23.00
Band4	3MHz	QPSK	20385	1RB#14	23.08	24.00
Band4	3MHz	16QAM	20385	1RB#14	22.34	23.00
Band4	3MHz	QPSK	20385	8RB#0	22.23	23.00
Band4	3MHz	16QAM	20385	8RB#0	21.57	22.00
Band4	3MHz	QPSK	20385	8RB#4	22.25	23.00
Band4	3MHz	16QAM	20385	8RB#4	21.49	22.00
Band4	3MHz	QPSK	20385	8RB#7	22.23	23.00
Band4	3MHz	16QAM	20385	8RB#7	21.47	22.00
Band4	3MHz	QPSK	20385	15RB#0	22.30	23.00
Band4	3MHz	16QAM	20385	15RB#0	21.41	22.00
Band4	5MHz	QPSK	19975	1RB#0	23.17	24.00
Band4	5MHz	16QAM	19975	1RB#0	21.89	22.00
Band4	5MHz	QPSK	19975	1RB#12	23.10	24.00
Band4	5MHz	16QAM	19975	1RB#12	21.88	22.00
Band4	5MHz	QPSK	19975	1RB#24	23.19	24.00
Band4	5MHz	16QAM	19975	1RB#24	21.85	22.00
Band4	5MHz	QPSK	19975	12RB#0	22.44	23.00
Band4	5MHz	16QAM	19975	12RB#0	21.54	22.00
Band4	5MHz	QPSK	19975	12RB#6	22.45	23.00
Band4	5MHz	16QAM	19975	12RB#6	21.53	22.00
Band4	5MHz	QPSK	19975	12RB#13	22.30	23.00
Band4	5MHz	16QAM	19975	12RB#13	21.45	22.00
Band4	5MHz	QPSK	19975	25RB#0	22.37	23.00
Band4	5MHz	16QAM	19975	25RB#0	21.57	22.00
Band4	5MHz	QPSK	20175	1RB#0	23.10	24.00
Band4	5MHz	16QAM	20175	1RB#0	22.64	23.00
Band4	5MHz	QPSK	20175	1RB#12	23.07	24.00
Band4	5MHz	16QAM	20175	1RB#12	22.61	23.00
Band4	5MHz	QPSK	20175	1RB#24	23.32	24.00
Band4	5MHz	16QAM	20175	1RB#24	22.28	23.00
Band4	5MHz	QPSK	20175	12RB#0	22.44	23.00
Band4	5MHz	16QAM	20175	12RB#0	21.64	22.00
Band4	5MHz	QPSK	20175	12RB#6	22.43	23.00
Band4	5MHz	16QAM	20175	12RB#6	21.64	22.00
Band4	5MHz	QPSK	20175	12RB#13	22.46	23.00
Band4	5MHz	16QAM	20175	12RB#13	21.69	22.00
Band4	5MHz	QPSK	20175	25RB#0	22.40	23.00
Band4	5MHz	16QAM	20175	25RB#0	21.63	22.00
Band4	5MHz	QPSK	20375	1RB#0	23.14	24.00
Band4	5MHz	16QAM	20375	1RB#0	21.92	22.00
Band4	5MHz	QPSK	20375	1RB#12	23.13	24.00
Band4	5MHz	16QAM	20375	1RB#12	21.87	22.00
Band4	5MHz	QPSK	20375	1RB#24	23.16	24.00
Band4	5MHz	16QAM	20375	1RB#24	21.84	22.00
Band4	5MHz	QPSK	20375	12RB#0	22.40	23.00
Band4	5MHz	16QAM	20375	12RB#0	21.47	22.00
Band4	5MHz	QPSK	20375	12RB#6	22.34	23.00
Band4	5MHz	16QAM	20375	12RB#6	21.47	22.00
Band4	5MHz	QPSK	20375	12RB#13	22.36	23.00
Band4	5MHz	16QAM	20375	12RB#13	21.49	22.00
Band4	5MHz	QPSK	20375	25RB#0	22.28	23.00



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Band4	5MHz	16QAM	20375	25RB#0	21.54	22.00
Band4	10MHz	QPSK	20000	1RB#0	23.07	24.00
Band4	10MHz	16QAM	20000	1RB#0	22.30	23.00
Band4	10MHz	QPSK	20000	1RB#24	22.99	23.00
Band4	10MHz	16QAM	20000	1RB#24	22.29	23.00
Band4	10MHz	QPSK	20000	1RB#49	23.02	24.00
Band4	10MHz	16QAM	20000	1RB#49	22.23	23.00
Band4	10MHz	QPSK	20000	25RB#0	22.25	23.00
Band4	10MHz	16QAM	20000	25RB#0	21.42	22.00
Band4	10MHz	QPSK	20000	25RB#12	22.28	23.00
Band4	10MHz	16QAM	20000	25RB#12	21.42	22.00
Band4	10MHz	QPSK	20000	25RB#25	22.21	23.00
Band4	10MHz	16QAM	20000	25RB#25	21.43	22.00
Band4	10MHz	QPSK	20000	50RB#0	22.33	23.00
Band4	10MHz	16QAM	20000	50RB#0	21.41	22.00
Band4	10MHz	QPSK	20175	1RB#0	23.20	24.00
Band4	10MHz	16QAM	20175	1RB#0	22.30	23.00
Band4	10MHz	QPSK	20175	1RB#24	23.22	24.00
Band4	10MHz	16QAM	20175	1RB#24	22.30	23.00
Band4	10MHz	QPSK	20175	1RB#49	23.11	24.00
Band4	10MHz	16QAM	20175	1RB#49	21.64	22.00
Band4	10MHz	QPSK	20175	25RB#0	22.37	23.00
Band4	10MHz	16QAM	20175	25RB#0	21.64	22.00
Band4	10MHz	QPSK	20175	25RB#12	22.34	23.00
Band4	10MHz	16QAM	20175	25RB#12	21.64	22.00
Band4	10MHz	QPSK	20175	25RB#25	22.31	23.00
Band4	10MHz	16QAM	20175	25RB#25	21.67	22.00
Band4	10MHz	QPSK	20175	50RB#0	22.36	23.00
Band4	10MHz	16QAM	20175	50RB#0	21.52	22.00
Band4	10MHz	QPSK	20350	1RB#0	22.96	23.00
Band4	10MHz	16QAM	20350	1RB#0	22.85	23.00
Band4	10MHz	QPSK	20350	1RB#24	22.90	23.00
Band4	10MHz	16QAM	20350	1RB#24	22.71	23.00
Band4	10MHz	QPSK	20350	1RB#49	23.07	24.00
Band4	10MHz	16QAM	20350	1RB#49	22.37	23.00
Band4	10MHz	QPSK	20350	25RB#0	22.27	23.00
Band4	10MHz	16QAM	20350	25RB#0	21.54	22.00
Band4	10MHz	QPSK	20350	25RB#12	22.20	23.00
Band4	10MHz	16QAM	20350	25RB#12	21.48	22.00
Band4	10MHz	QPSK	20350	25RB#25	22.25	23.00
Band4	10MHz	16QAM	20350	25RB#25	21.41	22.00
Band4	10MHz	QPSK	20350	50RB#0	22.21	23.00
Band4	10MHz	16QAM	20350	50RB#0	21.48	22.00
Band4	15MHz	QPSK	20025	1RB#0	23.07	24.00
Band4	15MHz	16QAM	20025	1RB#0	22.33	23.00
Band4	15MHz	QPSK	20025	1RB#38	22.99	23.00
Band4	15MHz	16QAM	20025	1RB#38	22.21	23.00
Band4	15MHz	QPSK	20025	1RB#74	23.04	24.00
Band4	15MHz	16QAM	20025	1RB#74	22.19	23.00
Band4	15MHz	QPSK	20025	38RB#0	22.37	23.00
Band4	15MHz	16QAM	20025	38RB#0	22.28	23.00
Band4	15MHz	QPSK	20025	38RB#18	22.30	23.00
Band4	15MHz	16QAM	20025	38RB#18	22.36	23.00
Band4	15MHz	QPSK	20025	38RB#37	22.36	23.00
Band4	15MHz	16QAM	20025	38RB#37	22.36	23.00
Band4	15MHz	QPSK	20025	75RB#0	22.35	23.00
Band4	15MHz	16QAM	20025	75RB#0	21.46	22.00
Band4	15MHz	QPSK	20175	1RB#0	23.28	24.00
Band4	15MHz	16QAM	20175	1RB#0	22.49	23.00
Band4	15MHz	QPSK	20175	1RB#38	23.33	24.00
Band4	15MHz	16QAM	20175	1RB#38	22.21	23.00
Band4	15MHz	QPSK	20175	1RB#74	22.76	23.00
Band4	15MHz	16QAM	20175	1RB#74	22.11	23.00
Band4	15MHz	QPSK	20175	38RB#0	22.37	23.00
Band4	15MHz	16QAM	20175	38RB#0	22.36	23.00



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Band4	15MHz	QPSK	20175	38RB#18	22.35	23.00
Band4	15MHz	16QAM	20175	38RB#18	22.35	23.00
Band4	15MHz	QPSK	20175	38RB#37	22.35	23.00
Band4	15MHz	16QAM	20175	38RB#37	22.35	23.00
Band4	15MHz	QPSK	20175	75RB#0	22.35	23.00
Band4	15MHz	16QAM	20175	75RB#0	21.63	22.00
Band4	15MHz	QPSK	20325	1RB#0	22.98	23.00
Band4	15MHz	16QAM	20325	1RB#0	22.66	23.00
Band4	15MHz	QPSK	20325	1RB#38	22.98	23.00
Band4	15MHz	16QAM	20325	1RB#38	22.57	23.00
Band4	15MHz	QPSK	20325	1RB#74	23.00	24.00
Band4	15MHz	16QAM	20325	1RB#74	22.53	23.00
Band4	15MHz	QPSK	20325	38RB#0	22.37	23.00
Band4	15MHz	16QAM	20325	38RB#0	22.37	23.00
Band4	15MHz	QPSK	20325	38RB#18	22.38	23.00
Band4	15MHz	16QAM	20325	38RB#18	22.26	23.00
Band4	15MHz	QPSK	20325	38RB#37	22.27	23.00
Band4	15MHz	16QAM	20325	38RB#37	22.27	23.00
Band4	15MHz	QPSK	20325	75RB#0	22.27	23.00
Band4	15MHz	16QAM	20325	75RB#0	21.47	22.00
Band4	20MHz	QPSK	20050	1RB#0	23.08	24.00
Band4	20MHz	16QAM	20050	1RB#0	22.18	23.00
Band4	20MHz	QPSK	20050	1RB#49	23.00	24.00
Band4	20MHz	16QAM	20050	1RB#49	22.24	23.00
Band4	20MHz	QPSK	20050	1RB#99	23.38	24.00
Band4	20MHz	16QAM	20050	1RB#99	22.28	23.00
Band4	20MHz	QPSK	20050	50RB#0	22.30	23.00
Band4	20MHz	16QAM	20050	50RB#0	21.55	22.00
Band4	20MHz	QPSK	20050	50RB#25	22.34	23.00
Band4	20MHz	16QAM	20050	50RB#25	21.55	22.00
Band4	20MHz	QPSK	20050	50RB#50	22.31	23.00
Band4	20MHz	16QAM	20050	50RB#50	21.58	22.00
Band4	20MHz	QPSK	20050	100RB#0	22.40	23.00
Band4	20MHz	16QAM	20050	100RB#0	21.54	22.00
Band4	20MHz	QPSK	20175	1RB#0	23.21	24.00
Band4	20MHz	16QAM	20175	1RB#0	22.94	23.00
Band4	20MHz	QPSK	20175	1RB#49	23.16	24.00
Band4	20MHz	16QAM	20175	1RB#49	22.92	23.00
Band4	20MHz	QPSK	20175	1RB#99	23.27	24.00
Band4	20MHz	16QAM	20175	1RB#99	22.79	23.00
Band4	20MHz	QPSK	20175	50RB#0	22.46	23.00
Band4	20MHz	16QAM	20175	50RB#0	21.64	22.00
Band4	20MHz	QPSK	20175	50RB#25	22.42	23.00
Band4	20MHz	16QAM	20175	50RB#25	21.63	22.00
Band4	20MHz	QPSK	20175	50RB#50	22.36	23.00
Band4	20MHz	16QAM	20175	50RB#50	21.64	22.00
Band4	20MHz	QPSK	20175	100RB#0	22.38	23.00
Band4	20MHz	16QAM	20175	100RB#0	21.66	22.00
Band4	20MHz	QPSK	20300	1RB#0	23.22	24.00
Band4	20MHz	16QAM	20300	1RB#0	21.95	22.00
Band4	20MHz	QPSK	20300	1RB#49	23.14	24.00
Band4	20MHz	16QAM	20300	1RB#49	21.95	22.00
Band4	20MHz	QPSK	20300	1RB#99	23.18	24.00
Band4	20MHz	16QAM	20300	1RB#99	21.85	22.00
Band4	20MHz	QPSK	20300	50RB#0	22.36	23.00
Band4	20MHz	16QAM	20300	50RB#0	21.70	22.00
Band4	20MHz	QPSK	20300	50RB#25	22.37	23.00
Band4	20MHz	16QAM	20300	50RB#25	21.66	22.00
Band4	20MHz	QPSK	20300	50RB#50	22.35	23.00
Band4	20MHz	16QAM	20300	50RB#50	21.59	22.00
Band4	20MHz	QPSK	20300	100RB#0	22.32	23.00
Band4	20MHz	16QAM	20300	100RB#0	21.55	22.00



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**7.1.8. Conducted Power Measurement Results(LTE Band 5)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band5	1.4MHz	QPSK	20407	1RB#0	23.87	24.00
Band5	1.4MHz	16QAM	20407	1RB#0	23.88	24.00
Band5	1.4MHz	QPSK	20407	1RB#2	23.85	24.00
Band5	1.4MHz	16QAM	20407	1RB#2	23.84	24.00
Band5	1.4MHz	QPSK	20407	1RB#5	23.81	24.00
Band5	1.4MHz	16QAM	20407	1RB#5	23.82	24.00
Band5	1.4MHz	QPSK	20407	3RB#0	23.81	24.00
Band5	1.4MHz	16QAM	20407	3RB#0	23.79	24.00
Band5	1.4MHz	QPSK	20407	3RB#1	23.80	24.00
Band5	1.4MHz	16QAM	20407	3RB#1	23.72	24.00
Band5	1.4MHz	QPSK	20407	3RB#3	23.71	24.00
Band5	1.4MHz	16QAM	20407	3RB#3	23.71	24.00
Band5	1.4MHz	QPSK	20407	6RB#0	23.71	24.00
Band5	1.4MHz	16QAM	20407	6RB#0	24.02	25.00
Band5	1.4MHz	QPSK	20525	1RB#0	23.77	24.00
Band5	1.4MHz	16QAM	20525	1RB#0	22.51	23.00
Band5	1.4MHz	QPSK	20525	1RB#2	23.72	24.00
Band5	1.4MHz	16QAM	20525	1RB#2	22.78	23.00
Band5	1.4MHz	QPSK	20525	1RB#5	23.76	24.00
Band5	1.4MHz	16QAM	20525	1RB#5	22.72	23.00
Band5	1.4MHz	QPSK	20525	3RB#0	23.52	24.00
Band5	1.4MHz	16QAM	20525	3RB#0	23.22	24.00
Band5	1.4MHz	QPSK	20525	3RB#1	23.91	24.00
Band5	1.4MHz	16QAM	20525	3RB#1	23.22	24.00
Band5	1.4MHz	QPSK	20525	3RB#3	23.85	24.00
Band5	1.4MHz	16QAM	20525	3RB#3	23.30	24.00
Band5	1.4MHz	QPSK	20525	6RB#0	23.01	24.00
Band5	1.4MHz	16QAM	20525	6RB#0	22.59	23.00
Band5	1.4MHz	QPSK	20643	1RB#0	23.51	24.00
Band5	1.4MHz	16QAM	20643	1RB#0	23.58	24.00
Band5	1.4MHz	QPSK	20643	1RB#2	23.25	24.00
Band5	1.4MHz	16QAM	20643	1RB#2	23.10	24.00
Band5	1.4MHz	QPSK	20643	1RB#5	22.27	23.00
Band5	1.4MHz	16QAM	20643	1RB#5	22.16	23.00
Band5	1.4MHz	QPSK	20643	3RB#0	23.54	24.00
Band5	1.4MHz	16QAM	20643	3RB#0	22.76	23.00
Band5	1.4MHz	QPSK	20643	3RB#1	23.57	24.00
Band5	1.4MHz	16QAM	20643	3RB#1	22.76	23.00
Band5	1.4MHz	QPSK	20643	3RB#3	22.78	23.00
Band5	1.4MHz	16QAM	20643	3RB#3	22.49	23.00
Band5	1.4MHz	QPSK	20643	6RB#0	22.86	23.00
Band5	1.4MHz	16QAM	20643	6RB#0	22.43	23.00
Band5	3MHz	QPSK	20415	1RB#0	23.58	24.00
Band5	3MHz	16QAM	20415	1RB#0	22.95	23.00
Band5	3MHz	QPSK	20415	1RB#8	23.59	24.00
Band5	3MHz	16QAM	20415	1RB#8	22.95	23.00
Band5	3MHz	QPSK	20415	1RB#14	23.62	24.00
Band5	3MHz	16QAM	20415	1RB#14	23.00	24.00
Band5	3MHz	QPSK	20415	8RB#0	22.95	23.00
Band5	3MHz	16QAM	20415	8RB#0	22.38	23.00
Band5	3MHz	QPSK	20415	8RB#4	22.83	23.00
Band5	3MHz	16QAM	20415	8RB#4	22.35	23.00
Band5	3MHz	QPSK	20415	8RB#7	23.09	24.00
Band5	3MHz	16QAM	20415	8RB#7	22.35	23.00
Band5	3MHz	QPSK	20415	15RB#0	22.72	23.00
Band5	3MHz	16QAM	20415	15RB#0	22.14	23.00
Band5	3MHz	QPSK	20525	1RB#0	23.45	24.00
Band5	3MHz	16QAM	20525	1RB#0	22.31	23.00
Band5	3MHz	QPSK	20525	1RB#8	23.72	24.00
Band5	3MHz	16QAM	20525	1RB#8	22.31	23.00



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Band5	3MHz	QPSK	20525	1RB#14	23.76	24.00
Band5	3MHz	16QAM	20525	1RB#14	22.36	23.00
Band5	3MHz	QPSK	20525	8RB#0	22.73	23.00
Band5	3MHz	16QAM	20525	8RB#0	22.43	23.00
Band5	3MHz	QPSK	20525	8RB#4	22.75	23.00
Band5	3MHz	16QAM	20525	8RB#4	22.30	23.00
Band5	3MHz	QPSK	20525	8RB#7	22.79	23.00
Band5	3MHz	16QAM	20525	8RB#7	22.62	23.00
Band5	3MHz	QPSK	20525	15RB#0	22.73	23.00
Band5	3MHz	16QAM	20525	15RB#0	22.00	23.00
Band5	3MHz	QPSK	20635	1RB#0	23.48	24.00
Band5	3MHz	16QAM	20635	1RB#0	23.61	24.00
Band5	3MHz	QPSK	20635	1RB#8	23.36	24.00
Band5	3MHz	16QAM	20635	1RB#8	23.61	24.00
Band5	3MHz	QPSK	20635	1RB#14	22.34	23.00
Band5	3MHz	16QAM	20635	1RB#14	22.16	23.00
Band5	3MHz	QPSK	20635	8RB#0	22.89	23.00
Band5	3MHz	16QAM	20635	8RB#0	22.34	23.00
Band5	3MHz	QPSK	20635	8RB#4	22.78	23.00
Band5	3MHz	16QAM	20635	8RB#4	22.35	23.00
Band5	3MHz	QPSK	20635	8RB#7	22.64	23.00
Band5	3MHz	16QAM	20635	8RB#7	22.23	23.00
Band5	3MHz	QPSK	20635	15RB#0	22.73	23.00
Band5	3MHz	16QAM	20635	15RB#0	22.16	23.00
Band5	5MHz	QPSK	20425	1RB#0	23.64	24.00
Band5	5MHz	16QAM	20425	1RB#0	22.38	23.00
Band5	5MHz	QPSK	20425	1RB#12	23.60	24.00
Band5	5MHz	16QAM	20425	1RB#12	22.43	23.00
Band5	5MHz	QPSK	20425	1RB#24	23.71	24.00
Band5	5MHz	16QAM	20425	1RB#24	22.43	23.00
Band5	5MHz	QPSK	20425	12RB#0	22.79	23.00
Band5	5MHz	16QAM	20425	12RB#0	22.16	23.00
Band5	5MHz	QPSK	20425	12RB#6	22.46	23.00
Band5	5MHz	16QAM	20425	12RB#6	22.16	23.00
Band5	5MHz	QPSK	20425	12RB#13	22.80	23.00
Band5	5MHz	16QAM	20425	12RB#13	22.15	23.00
Band5	5MHz	QPSK	20425	25RB#0	22.70	23.00
Band5	5MHz	16QAM	20425	25RB#0	22.24	23.00
Band5	5MHz	QPSK	20525	1RB#0	23.44	24.00
Band5	5MHz	16QAM	20525	1RB#0	23.52	24.00
Band5	5MHz	QPSK	20525	1RB#12	23.37	24.00
Band5	5MHz	16QAM	20525	1RB#12	23.45	24.00
Band5	5MHz	QPSK	20525	1RB#24	23.49	24.00
Band5	5MHz	16QAM	20525	1RB#24	23.55	24.00
Band5	5MHz	QPSK	20525	12RB#0	22.69	23.00
Band5	5MHz	16QAM	20525	12RB#0	22.26	23.00
Band5	5MHz	QPSK	20525	12RB#6	22.71	23.00
Band5	5MHz	16QAM	20525	12RB#6	22.28	23.00
Band5	5MHz	QPSK	20525	12RB#13	22.80	23.00
Band5	5MHz	16QAM	20525	12RB#13	22.16	23.00
Band5	5MHz	QPSK	20525	25RB#0	22.75	23.00
Band5	5MHz	16QAM	20525	25RB#0	22.25	23.00
Band5	5MHz	QPSK	20625	1RB#0	23.60	24.00
Band5	5MHz	16QAM	20625	1RB#0	23.01	24.00
Band5	5MHz	QPSK	20625	1RB#12	23.53	24.00
Band5	5MHz	16QAM	20625	1RB#12	22.99	23.00
Band5	5MHz	QPSK	20625	1RB#24	22.86	23.00
Band5	5MHz	16QAM	20625	1RB#24	22.61	23.00
Band5	5MHz	QPSK	20625	12RB#0	22.84	23.00
Band5	5MHz	16QAM	20625	12RB#0	22.33	23.00
Band5	5MHz	QPSK	20625	12RB#6	22.90	23.00
Band5	5MHz	16QAM	20625	12RB#6	22.35	23.00
Band5	5MHz	QPSK	20625	12RB#13	22.76	23.00
Band5	5MHz	16QAM	20625	12RB#13	22.16	23.00
Band5	5MHz	QPSK	20625	25RB#0	23.00	24.00



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Band5	5MHz	16QAM	20625	25RB#0	22.38	23.00
Band5	10MHz	QPSK	20450	1RB#0	23.50	24.00
Band5	10MHz	16QAM	20450	1RB#0	23.03	24.00
Band5	10MHz	QPSK	20450	1RB#24	23.53	24.00
Band5	10MHz	16QAM	20450	1RB#24	23.03	24.00
Band5	10MHz	QPSK	20450	1RB#49	23.49	24.00
Band5	10MHz	16QAM	20450	1RB#49	23.03	24.00
Band5	10MHz	QPSK	20450	25RB#0	22.67	23.00
Band5	10MHz	16QAM	20450	25RB#0	22.12	23.00
Band5	10MHz	QPSK	20450	25RB#12	22.66	23.00
Band5	10MHz	16QAM	20450	25RB#12	21.98	22.00
Band5	10MHz	QPSK	20450	25RB#25	22.70	23.00
Band5	10MHz	16QAM	20450	25RB#25	22.05	23.00
Band5	10MHz	QPSK	20450	50RB#0	22.61	23.00
Band5	10MHz	16QAM	20450	50RB#0	22.12	23.00
Band5	10MHz	QPSK	20525	1RB#0	23.57	24.00
Band5	10MHz	16QAM	20525	1RB#0	23.14	24.00
Band5	10MHz	QPSK	20525	1RB#24	23.63	24.00
Band5	10MHz	16QAM	20525	1RB#24	23.20	24.00
Band5	10MHz	QPSK	20525	1RB#49	23.53	24.00
Band5	10MHz	16QAM	20525	1RB#49	22.35	23.00
Band5	10MHz	QPSK	20525	25RB#0	22.74	23.00
Band5	10MHz	16QAM	20525	25RB#0	22.24	23.00
Band5	10MHz	QPSK	20525	25RB#12	22.75	23.00
Band5	10MHz	16QAM	20525	25RB#12	22.25	23.00
Band5	10MHz	QPSK	20525	25RB#25	22.71	23.00
Band5	10MHz	16QAM	20525	25RB#25	22.28	23.00
Band5	10MHz	QPSK	20525	50RB#0	22.78	23.00
Band5	10MHz	16QAM	20525	50RB#0	22.18	23.00
Band5	10MHz	QPSK	20600	1RB#0	23.63	24.00
Band5	10MHz	16QAM	20600	1RB#0	23.72	24.00
Band5	10MHz	QPSK	20600	1RB#24	23.65	24.00
Band5	10MHz	16QAM	20600	1RB#24	23.63	24.00
Band5	10MHz	QPSK	20600	1RB#49	23.20	24.00
Band5	10MHz	16QAM	20600	1RB#49	23.06	24.00
Band5	10MHz	QPSK	20600	25RB#0	22.71	23.00
Band5	10MHz	16QAM	20600	25RB#0	22.25	23.00
Band5	10MHz	QPSK	20600	25RB#12	22.80	23.00
Band5	10MHz	16QAM	20600	25RB#12	22.27	23.00
Band5	10MHz	QPSK	20600	25RB#25	22.79	23.00
Band5	10MHz	16QAM	20600	25RB#25	22.35	23.00
Band5	10MHz	QPSK	20600	50RB#0	22.74	23.00
Band5	10MHz	16QAM	20600	50RB#0	22.29	23.00



**7.1.9. Conducted Power Measurement Results(LTE Band 7)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band7	5MHz	QPSK	20775	1RB#0	21.30	22.00
Band7	5MHz	16QAM	20775	1RB#0	21.05	22.00
Band7	5MHz	QPSK	20775	1RB#12	21.45	22.00
Band7	5MHz	16QAM	20775	1RB#12	21.06	22.00
Band7	5MHz	QPSK	20775	1RB#24	20.92	21.00
Band7	5MHz	16QAM	20775	1RB#24	20.83	21.00
Band7	5MHz	QPSK	20775	12RB#0	21.26	22.00
Band7	5MHz	16QAM	20775	12RB#0	20.76	21.00
Band7	5MHz	QPSK	20775	12RB#6	21.26	22.00
Band7	5MHz	16QAM	20775	12RB#6	20.75	21.00
Band7	5MHz	QPSK	20775	12RB#13	21.12	22.00
Band7	5MHz	16QAM	20775	12RB#13	20.73	21.00
Band7	5MHz	QPSK	20775	25RB#0	21.17	22.00
Band7	5MHz	16QAM	20775	25RB#0	20.80	21.00
Band7	5MHz	QPSK	21100	1RB#0	22.24	23.00
Band7	5MHz	16QAM	21100	1RB#0	21.68	22.00
Band7	5MHz	QPSK	21100	1RB#12	22.23	23.00
Band7	5MHz	16QAM	21100	1RB#12	21.68	22.00
Band7	5MHz	QPSK	21100	1RB#24	22.23	23.00
Band7	5MHz	16QAM	21100	1RB#24	21.18	22.00
Band7	5MHz	QPSK	21100	12RB#0	21.53	22.00
Band7	5MHz	16QAM	21100	12RB#0	20.57	21.00
Band7	5MHz	QPSK	21100	12RB#6	21.41	22.00
Band7	5MHz	16QAM	21100	12RB#6	20.55	21.00
Band7	5MHz	QPSK	21100	12RB#13	21.47	22.00
Band7	5MHz	16QAM	21100	12RB#13	20.75	21.00
Band7	5MHz	QPSK	21100	25RB#0	21.38	22.00
Band7	5MHz	16QAM	21100	25RB#0	20.63	21.00
Band7	5MHz	QPSK	21425	1RB#0	21.27	22.00
Band7	5MHz	16QAM	21425	1RB#0	21.07	22.00
Band7	5MHz	QPSK	21425	1RB#12	21.74	22.00
Band7	5MHz	16QAM	21425	1RB#12	21.35	22.00
Band7	5MHz	QPSK	21425	1RB#24	21.48	22.00
Band7	5MHz	16QAM	21425	1RB#24	21.41	22.00
Band7	5MHz	QPSK	21425	12RB#0	21.43	22.00
Band7	5MHz	16QAM	21425	12RB#0	20.90	21.00
Band7	5MHz	QPSK	21425	12RB#6	21.41	22.00
Band7	5MHz	16QAM	21425	12RB#6	20.89	21.00
Band7	5MHz	QPSK	21425	12RB#13	21.62	22.00
Band7	5MHz	16QAM	21425	12RB#13	20.88	21.00
Band7	5MHz	QPSK	21425	25RB#0	21.53	22.00
Band7	5MHz	16QAM	21425	25RB#0	21.02	22.00
Band7	10MHz	QPSK	20800	1RB#0	21.01	22.00
Band7	10MHz	16QAM	20800	1RB#0	20.99	21.00
Band7	10MHz	QPSK	20800	1RB#24	20.98	21.00
Band7	10MHz	16QAM	20800	1RB#24	20.99	21.00
Band7	10MHz	QPSK	20800	1RB#49	21.07	22.00
Band7	10MHz	16QAM	20800	1RB#49	21.08	22.00
Band7	10MHz	QPSK	20800	25RB#0	21.03	22.00
Band7	10MHz	16QAM	20800	25RB#0	20.65	21.00
Band7	10MHz	QPSK	20800	25RB#12	21.05	22.00
Band7	10MHz	16QAM	20800	25RB#12	20.64	21.00
Band7	10MHz	QPSK	20800	25RB#25	21.10	22.00
Band7	10MHz	16QAM	20800	25RB#25	20.70	21.00
Band7	10MHz	QPSK	20800	50RB#0	21.05	22.00
Band7	10MHz	16QAM	20800	50RB#0	20.76	21.00
Band7	10MHz	QPSK	21100	1RB#0	22.36	23.00
Band7	10MHz	16QAM	21100	1RB#0	21.42	22.00
Band7	10MHz	QPSK	21100	1RB#24	22.40	23.00
Band7	10MHz	16QAM	21100	1RB#24	21.37	22.00
Band7	10MHz	QPSK	21100	1RB#49	22.39	23.00
Band7	10MHz	16QAM	21100	1RB#49	21.35	22.00



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Band7	10MHz	QPSK	21100	25RB#0	21.42	22.00
Band7	10MHz	16QAM	21100	25RB#0	20.72	21.00
Band7	10MHz	QPSK	21100	25RB#12	21.54	22.00
Band7	10MHz	16QAM	21100	25RB#12	20.73	21.00
Band7	10MHz	QPSK	21100	25RB#25	21.38	22.00
Band7	10MHz	16QAM	21100	25RB#25	20.68	21.00
Band7	10MHz	QPSK	21100	50RB#0	21.50	22.00
Band7	10MHz	16QAM	21100	50RB#0	20.65	21.00
Band7	10MHz	QPSK	21400	1RB#0	21.10	22.00
Band7	10MHz	16QAM	21400	1RB#0	20.99	21.00
Band7	10MHz	QPSK	21400	1RB#24	21.27	22.00
Band7	10MHz	16QAM	21400	1RB#24	21.28	22.00
Band7	10MHz	QPSK	21400	1RB#49	21.78	22.00
Band7	10MHz	16QAM	21400	1RB#49	21.79	22.00
Band7	10MHz	QPSK	21400	25RB#0	21.18	22.00
Band7	10MHz	16QAM	21400	25RB#0	20.86	21.00
Band7	10MHz	QPSK	21400	25RB#12	21.17	22.00
Band7	10MHz	16QAM	21400	25RB#12	20.85	21.00
Band7	10MHz	QPSK	21400	25RB#25	21.65	22.00
Band7	10MHz	16QAM	21400	25RB#25	20.92	21.00
Band7	10MHz	QPSK	21400	50RB#0	21.41	22.00
Band7	10MHz	16QAM	21400	50RB#0	20.92	21.00
Band7	15MHz	QPSK	20825	1RB#0	21.04	22.00
Band7	15MHz	16QAM	20825	1RB#0	21.01	22.00
Band7	15MHz	QPSK	20825	1RB#38	20.90	21.00
Band7	15MHz	16QAM	20825	1RB#38	20.91	21.00
Band7	15MHz	QPSK	20825	1RB#74	20.89	21.00
Band7	15MHz	16QAM	20825	1RB#74	20.92	21.00
Band7	15MHz	QPSK	20825	38RB#0	20.97	21.00
Band7	15MHz	16QAM	20825	38RB#0	20.97	21.00
Band7	15MHz	QPSK	20825	38RB#18	20.97	21.00
Band7	15MHz	16QAM	20825	38RB#18	20.97	21.00
Band7	15MHz	QPSK	20825	38RB#37	20.96	21.00
Band7	15MHz	16QAM	20825	38RB#37	20.96	21.00
Band7	15MHz	QPSK	20825	75RB#0	20.96	21.00
Band7	15MHz	16QAM	20825	75RB#0	20.77	21.00
Band7	15MHz	QPSK	21100	1RB#0	22.10	23.00
Band7	15MHz	16QAM	21100	1RB#0	21.64	22.00
Band7	15MHz	QPSK	21100	1RB#38	22.02	23.00
Band7	15MHz	16QAM	21100	1RB#38	21.64	22.00
Band7	15MHz	QPSK	21100	1RB#74	21.84	22.00
Band7	15MHz	16QAM	21100	1RB#74	21.65	22.00
Band7	15MHz	QPSK	21100	38RB#0	21.44	22.00
Band7	15MHz	16QAM	21100	38RB#0	21.45	22.00
Band7	15MHz	QPSK	21100	38RB#18	21.45	22.00
Band7	15MHz	16QAM	21100	38RB#18	21.45	22.00
Band7	15MHz	QPSK	21100	38RB#37	21.46	22.00
Band7	15MHz	16QAM	21100	38RB#37	21.46	22.00
Band7	15MHz	QPSK	21100	75RB#0	21.46	22.00
Band7	15MHz	16QAM	21100	75RB#0	20.69	21.00
Band7	15MHz	QPSK	21375	1RB#0	21.20	22.00
Band7	15MHz	16QAM	21375	1RB#0	20.89	21.00
Band7	15MHz	QPSK	21375	1RB#38	21.17	22.00
Band7	15MHz	16QAM	21375	1RB#38	20.96	21.00
Band7	15MHz	QPSK	21375	1RB#74	21.47	22.00
Band7	15MHz	16QAM	21375	1RB#74	21.27	22.00
Band7	15MHz	QPSK	21375	38RB#0	21.26	22.00
Band7	15MHz	16QAM	21375	38RB#0	21.25	22.00
Band7	15MHz	QPSK	21375	38RB#18	21.24	22.00
Band7	15MHz	16QAM	21375	38RB#18	21.24	22.00
Band7	15MHz	QPSK	21375	38RB#37	21.24	22.00
Band7	15MHz	16QAM	21375	38RB#37	21.24	22.00
Band7	15MHz	QPSK	21375	75RB#0	21.24	22.00
Band7	15MHz	16QAM	21375	75RB#0	20.89	21.00
Band7	20MHz	QPSK	20850	1RB#0	21.13	22.00



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Band7	20MHz	16QAM	20850	1RB#0	20.98	21.00
Band7	20MHz	QPSK	20850	1RB#49	20.94	21.00
Band7	20MHz	16QAM	20850	1RB#49	20.81	21.00
Band7	20MHz	QPSK	20850	1RB#99	21.82	22.00
Band7	20MHz	16QAM	20850	1RB#99	21.18	22.00
Band7	20MHz	QPSK	20850	50RB#0	20.85	21.00
Band7	20MHz	16QAM	20850	50RB#0	20.87	21.00
Band7	20MHz	QPSK	20850	50RB#25	20.86	21.00
Band7	20MHz	16QAM	20850	50RB#25	20.87	21.00
Band7	20MHz	QPSK	20850	50RB#50	21.27	22.00
Band7	20MHz	16QAM	20850	50RB#50	20.80	21.00
Band7	20MHz	QPSK	20850	100RB#0	21.06	22.00
Band7	20MHz	16QAM	20850	100RB#0	20.71	21.00
Band7	20MHz	QPSK	21100	1RB#0	22.30	23.00
Band7	20MHz	16QAM	21100	1RB#0	21.99	22.00
Band7	20MHz	QPSK	21100	1RB#49	22.43	23.00
Band7	20MHz	16QAM	21100	1RB#49	21.89	22.00
Band7	20MHz	QPSK	21100	1RB#99	22.27	23.00
Band7	20MHz	16QAM	21100	1RB#99	21.96	22.00
Band7	20MHz	QPSK	21100	50RB#0	21.58	22.00
Band7	20MHz	16QAM	21100	50RB#0	20.64	21.00
Band7	20MHz	QPSK	21100	50RB#25	21.44	22.00
Band7	20MHz	16QAM	21100	50RB#25	20.65	21.00
Band7	20MHz	QPSK	21100	50RB#50	21.46	22.00
Band7	20MHz	16QAM	21100	50RB#50	20.70	21.00
Band7	20MHz	QPSK	21100	100RB#0	21.46	22.00
Band7	20MHz	16QAM	21100	100RB#0	20.82	21.00
Band7	20MHz	QPSK	21350	1RB#0	21.52	22.00
Band7	20MHz	16QAM	21350	1RB#0	21.29	22.00
Band7	20MHz	QPSK	21350	1RB#49	21.08	22.00
Band7	20MHz	16QAM	21350	1RB#49	20.96	21.00
Band7	20MHz	QPSK	21350	1RB#99	21.89	22.00
Band7	20MHz	16QAM	21350	1RB#99	21.67	22.00
Band7	20MHz	QPSK	21350	50RB#0	21.16	22.00
Band7	20MHz	16QAM	21350	50RB#0	20.94	21.00
Band7	20MHz	QPSK	21350	50RB#25	21.16	22.00
Band7	20MHz	16QAM	21350	50RB#25	20.94	21.00
Band7	20MHz	QPSK	21350	50RB#50	21.44	22.00
Band7	20MHz	16QAM	21350	50RB#50	21.01	22.00
Band7	20MHz	QPSK	21350	100RB#0	21.29	22.00
Band7	20MHz	16QAM	21350	100RB#0	20.94	21.00



**7.1.10. Conducted Power Measurement Results(LTE Band 12)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band12	1.4MHz	QPSK	23017	1RB#0	23.96	24.00
Band12	1.4MHz	16QAM	23017	1RB#0	22.59	23.00
Band12	1.4MHz	QPSK	23017	1RB#2	23.97	24.00
Band12	1.4MHz	16QAM	23017	1RB#2	22.62	23.00
Band12	1.4MHz	QPSK	23017	1RB#5	23.95	24.00
Band12	1.4MHz	16QAM	23017	1RB#5	22.65	23.00
Band12	1.4MHz	QPSK	23017	3RB#0	23.94	24.00
Band12	1.4MHz	16QAM	23017	3RB#0	22.80	23.00
Band12	1.4MHz	QPSK	23017	3RB#1	23.94	24.00
Band12	1.4MHz	16QAM	23017	3RB#1	22.93	23.00
Band12	1.4MHz	QPSK	23017	3RB#3	23.88	24.00
Band12	1.4MHz	16QAM	23017	3RB#3	23.04	24.00
Band12	1.4MHz	QPSK	23017	6RB#0	23.04	24.00
Band12	1.4MHz	16QAM	23017	6RB#0	22.38	23.00
Band12	1.4MHz	QPSK	23095	1RB#0	23.54	24.00
Band12	1.4MHz	16QAM	23095	1RB#0	22.96	23.00
Band12	1.4MHz	QPSK	23095	1RB#2	23.71	24.00
Band12	1.4MHz	16QAM	23095	1RB#2	23.01	24.00
Band12	1.4MHz	QPSK	23095	1RB#5	23.51	24.00
Band12	1.4MHz	16QAM	23095	1RB#5	22.96	23.00
Band12	1.4MHz	QPSK	23095	3RB#0	23.76	24.00
Band12	1.4MHz	16QAM	23095	3RB#0	22.70	23.00
Band12	1.4MHz	QPSK	23095	3RB#1	23.88	24.00
Band12	1.4MHz	16QAM	23095	3RB#1	22.70	23.00
Band12	1.4MHz	QPSK	23095	3RB#3	23.78	24.00
Band12	1.4MHz	16QAM	23095	3RB#3	22.69	23.00
Band12	1.4MHz	QPSK	23095	6RB#0	22.90	23.00
Band12	1.4MHz	16QAM	23095	6RB#0	22.16	23.00
Band12	1.4MHz	QPSK	23173	1RB#0	23.57	24.00
Band12	1.4MHz	16QAM	23173	1RB#0	23.08	24.00
Band12	1.4MHz	QPSK	23173	1RB#2	23.51	24.00
Band12	1.4MHz	16QAM	23173	1RB#2	23.11	24.00
Band12	1.4MHz	QPSK	23173	1RB#5	23.47	24.00
Band12	1.4MHz	16QAM	23173	1RB#5	23.06	24.00
Band12	1.4MHz	QPSK	23173	3RB#0	23.64	24.00
Band12	1.4MHz	16QAM	23173	3RB#0	22.62	23.00
Band12	1.4MHz	QPSK	23173	3RB#1	23.67	24.00
Band12	1.4MHz	16QAM	23173	3RB#1	22.62	23.00
Band12	1.4MHz	QPSK	23173	3RB#3	23.42	24.00
Band12	1.4MHz	16QAM	23173	3RB#3	22.59	23.00
Band12	1.4MHz	QPSK	23173	6RB#0	22.83	23.00
Band12	1.4MHz	16QAM	23173	6RB#0	22.01	23.00
Band12	3MHz	QPSK	23025	1RB#0	23.66	24.00
Band12	3MHz	16QAM	23025	1RB#0	22.53	23.00
Band12	3MHz	QPSK	23025	1RB#8	23.63	24.00
Band12	3MHz	16QAM	23025	1RB#8	22.72	23.00
Band12	3MHz	QPSK	23025	1RB#14	23.49	24.00
Band12	3MHz	16QAM	23025	1RB#14	22.78	23.00
Band12	3MHz	QPSK	23025	8RB#0	22.78	23.00
Band12	3MHz	16QAM	23025	8RB#0	22.22	23.00
Band12	3MHz	QPSK	23025	8RB#4	22.74	23.00
Band12	3MHz	16QAM	23025	8RB#4	22.06	23.00
Band12	3MHz	QPSK	23025	8RB#7	22.72	23.00
Band12	3MHz	16QAM	23025	8RB#7	22.11	23.00
Band12	3MHz	QPSK	23025	15RB#0	22.75	23.00
Band12	3MHz	16QAM	23025	15RB#0	22.01	23.00
Band12	3MHz	QPSK	23095	1RB#0	23.66	24.00
Band12	3MHz	16QAM	23095	1RB#0	22.36	23.00
Band12	3MHz	QPSK	23095	1RB#8	23.55	24.00
Band12	3MHz	16QAM	23095	1RB#8	22.36	23.00



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Band12	3MHz	QPSK	23095	1RB#14	23.53	24.00
Band12	3MHz	16QAM	23095	1RB#14	22.34	23.00
Band12	3MHz	QPSK	23095	8RB#0	22.59	23.00
Band12	3MHz	16QAM	23095	8RB#0	21.99	22.00
Band12	3MHz	QPSK	23095	8RB#4	22.60	23.00
Band12	3MHz	16QAM	23095	8RB#4	21.99	22.00
Band12	3MHz	QPSK	23095	8RB#7	22.75	23.00
Band12	3MHz	16QAM	23095	8RB#7	21.97	22.00
Band12	3MHz	QPSK	23095	15RB#0	22.60	23.00
Band12	3MHz	16QAM	23095	15RB#0	21.64	22.00
Band12	3MHz	QPSK	23165	1RB#0	23.58	24.00
Band12	3MHz	16QAM	23165	1RB#0	23.03	24.00
Band12	3MHz	QPSK	23165	1RB#8	23.53	24.00
Band12	3MHz	16QAM	23165	1RB#8	23.30	24.00
Band12	3MHz	QPSK	23165	1RB#14	23.38	24.00
Band12	3MHz	16QAM	23165	1RB#14	23.27	24.00
Band12	3MHz	QPSK	23165	8RB#0	22.54	23.00
Band12	3MHz	16QAM	23165	8RB#0	21.95	22.00
Band12	3MHz	QPSK	23165	8RB#4	22.55	23.00
Band12	3MHz	16QAM	23165	8RB#4	21.78	22.00
Band12	3MHz	QPSK	23165	8RB#7	22.67	23.00
Band12	3MHz	16QAM	23165	8RB#7	21.69	22.00
Band12	3MHz	QPSK	23165	15RB#0	22.61	23.00
Band12	3MHz	16QAM	23165	15RB#0	21.70	22.00
Band12	5MHz	QPSK	23035	1RB#0	23.44	24.00
Band12	5MHz	16QAM	23035	1RB#0	21.76	22.00
Band12	5MHz	QPSK	23035	1RB#12	23.43	24.00
Band12	5MHz	16QAM	23035	1RB#12	21.74	22.00
Band12	5MHz	QPSK	23035	1RB#24	23.40	24.00
Band12	5MHz	16QAM	23035	1RB#24	21.65	22.00
Band12	5MHz	QPSK	23035	12RB#0	22.41	23.00
Band12	5MHz	16QAM	23035	12RB#0	21.45	22.00
Band12	5MHz	QPSK	23035	12RB#6	22.38	23.00
Band12	5MHz	16QAM	23035	12RB#6	21.42	22.00
Band12	5MHz	QPSK	23035	12RB#13	22.32	23.00
Band12	5MHz	16QAM	23035	12RB#13	21.43	22.00
Band12	5MHz	QPSK	23035	25RB#0	22.35	23.00
Band12	5MHz	16QAM	23035	25RB#0	21.56	22.00
Band12	5MHz	QPSK	23095	1RB#0	23.20	24.00
Band12	5MHz	16QAM	23095	1RB#0	22.59	23.00
Band12	5MHz	QPSK	23095	1RB#24	23.19	24.00
Band12	5MHz	16QAM	23095	1RB#24	22.00	23.00
Band12	5MHz	QPSK	23095	12RB#0	22.30	23.00
Band12	5MHz	16QAM	23095	12RB#0	21.37	22.00
Band12	5MHz	16QAM	23095	12RB#6	21.45	22.00
Band12	5MHz	QPSK	23095	12RB#13	22.19	23.00
Band12	5MHz	16QAM	23095	12RB#13	21.51	22.00
Band12	5MHz	QPSK	23095	1RB#12	23.04	24.00
Band12	5MHz	16QAM	23095	1RB#12	22.03	23.00
Band12	5MHz	QPSK	23095	12RB#6	22.28	23.00
Band12	5MHz	QPSK	23095	25RB#0	22.21	23.00
Band12	5MHz	16QAM	23095	25RB#0	21.46	22.00
Band12	5MHz	QPSK	23155	1RB#0	23.02	24.00
Band12	5MHz	16QAM	23155	1RB#0	21.97	22.00
Band12	5MHz	QPSK	23155	1RB#12	23.06	24.00
Band12	5MHz	16QAM	23155	1RB#12	22.21	23.00
Band12	5MHz	QPSK	23155	1RB#24	23.38	24.00
Band12	5MHz	16QAM	23155	1RB#24	22.28	23.00
Band12	5MHz	QPSK	23155	12RB#0	22.17	23.00
Band12	5MHz	16QAM	23155	12RB#0	21.32	22.00
Band12	5MHz	QPSK	23155	12RB#6	22.16	23.00
Band12	5MHz	16QAM	23155	12RB#6	21.22	22.00
Band12	5MHz	QPSK	23155	12RB#13	22.28	23.00
Band12	5MHz	16QAM	23155	12RB#13	21.34	22.00
Band12	5MHz	QPSK	23155	25RB#0	22.28	23.00



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Band12	5MHz	16QAM	23155	25RB#0	21.49	22.00
Band12	10MHz	QPSK	23060	1RB#0	23.40	24.00
Band12	10MHz	16QAM	23060	1RB#0	22.86	23.00
Band12	10MHz	QPSK	23060	1RB#24	23.37	24.00
Band12	10MHz	16QAM	23060	1RB#24	22.33	23.00
Band12	10MHz	QPSK	23060	1RB#49	23.21	24.00
Band12	10MHz	16QAM	23060	1RB#49	22.25	23.00
Band12	10MHz	QPSK	23060	25RB#0	22.61	23.00
Band12	10MHz	16QAM	23060	25RB#0	21.62	22.00
Band12	10MHz	QPSK	23060	25RB#12	22.65	23.00
Band12	10MHz	16QAM	23060	25RB#12	21.62	22.00
Band12	10MHz	QPSK	23060	25RB#25	22.53	23.00
Band12	10MHz	16QAM	23060	25RB#25	21.46	22.00
Band12	10MHz	QPSK	23060	50RB#0	22.38	23.00
Band12	10MHz	16QAM	23060	50RB#0	21.54	22.00
Band12	10MHz	QPSK	23095	1RB#0	23.64	24.00
Band12	10MHz	16QAM	23095	1RB#0	22.54	23.00
Band12	10MHz	QPSK	23095	1RB#24	23.47	24.00
Band12	10MHz	16QAM	23095	1RB#24	22.44	23.00
Band12	10MHz	QPSK	23095	1RB#49	23.52	24.00
Band12	10MHz	16QAM	23095	1RB#49	22.38	23.00
Band12	10MHz	QPSK	23095	25RB#0	22.56	23.00
Band12	10MHz	16QAM	23095	25RB#0	21.83	22.00
Band12	10MHz	QPSK	23095	25RB#12	22.60	23.00
Band12	10MHz	16QAM	23095	25RB#12	21.84	22.00
Band12	10MHz	QPSK	23095	25RB#25	22.45	23.00
Band12	10MHz	16QAM	23095	25RB#25	21.64	22.00
Band12	10MHz	QPSK	23095	50RB#0	22.50	23.00
Band12	10MHz	16QAM	23095	50RB#0	21.69	22.00
Band12	10MHz	QPSK	23130	1RB#0	23.30	24.00
Band12	10MHz	16QAM	23130	1RB#0	23.17	24.00
Band12	10MHz	QPSK	23130	1RB#24	23.20	24.00
Band12	10MHz	16QAM	23130	1RB#24	23.14	24.00
Band12	10MHz	QPSK	23130	1RB#49	23.16	24.00
Band12	10MHz	16QAM	23130	1RB#49	23.12	24.00
Band12	10MHz	QPSK	23130	25RB#0	22.35	23.00
Band12	10MHz	16QAM	23130	25RB#0	21.65	22.00
Band12	10MHz	QPSK	23130	25RB#12	22.53	23.00
Band12	10MHz	16QAM	23130	25RB#12	21.65	22.00
Band12	10MHz	QPSK	23130	25RB#25	22.45	23.00
Band12	10MHz	16QAM	23130	25RB#25	21.57	22.00
Band12	10MHz	QPSK	23130	50RB#0	22.60	23.00
Band12	10MHz	16QAM	23130	50RB#0	21.64	22.00



**7.1.11. Conducted Power Measurement Results(LTE Band 13)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band13	5MHz	QPSK	23205	1RB#0	24.34	25.00
Band13	5MHz	16QAM	23205	1RB#0	23.46	24.00
Band13	5MHz	QPSK	23205	1RB#12	24.40	25.00
Band13	5MHz	16QAM	23205	1RB#12	23.45	24.00
Band13	5MHz	QPSK	23205	1RB#24	24.42	25.00
Band13	5MHz	16QAM	23205	1RB#24	23.44	24.00
Band13	5MHz	QPSK	23205	12RB#0	23.37	24.00
Band13	5MHz	16QAM	23205	12RB#0	22.54	23.00
Band13	5MHz	QPSK	23205	12RB#6	23.14	24.00
Band13	5MHz	16QAM	23205	12RB#6	22.42	23.00
Band13	5MHz	QPSK	23205	12RB#13	23.25	24.00
Band13	5MHz	16QAM	23205	12RB#13	22.39	23.00
Band13	5MHz	QPSK	23205	25RB#0	23.17	24.00
Band13	5MHz	16QAM	23205	25RB#0	22.52	23.00
Band13	5MHz	QPSK	23230	1RB#0	24.07	25.00
Band13	5MHz	16QAM	23230	1RB#0	22.84	23.00
Band13	5MHz	QPSK	23230	1RB#12	24.02	25.00
Band13	5MHz	16QAM	23230	1RB#12	22.80	23.00
Band13	5MHz	QPSK	23230	1RB#24	23.98	24.00
Band13	5MHz	16QAM	23230	1RB#24	22.72	23.00
Band13	5MHz	QPSK	23230	12RB#0	23.26	24.00
Band13	5MHz	16QAM	23230	12RB#0	22.52	23.00
Band13	5MHz	QPSK	23230	12RB#6	23.27	24.00
Band13	5MHz	16QAM	23230	12RB#6	22.52	23.00
Band13	5MHz	QPSK	23230	12RB#13	23.18	24.00
Band13	5MHz	16QAM	23230	12RB#13	22.45	23.00
Band13	5MHz	QPSK	23230	25RB#0	23.21	24.00
Band13	5MHz	16QAM	23230	25RB#0	22.54	23.00
Band13	5MHz	QPSK	23255	1RB#0	23.85	24.00
Band13	5MHz	16QAM	23255	1RB#0	23.67	24.00
Band13	5MHz	QPSK	23255	1RB#12	23.73	24.00
Band13	5MHz	16QAM	23255	1RB#12	23.49	24.00
Band13	5MHz	QPSK	23255	1RB#24	23.50	24.00
Band13	5MHz	16QAM	23255	1RB#24	23.21	24.00
Band13	5MHz	QPSK	23255	12RB#0	23.25	24.00
Band13	5MHz	16QAM	23255	12RB#0	22.43	23.00
Band13	5MHz	QPSK	23255	12RB#6	23.11	24.00
Band13	5MHz	16QAM	23255	12RB#6	22.43	23.00
Band13	5MHz	QPSK	23255	12RB#13	22.99	23.00
Band13	5MHz	16QAM	23255	12RB#13	22.24	23.00
Band13	5MHz	QPSK	23255	25RB#0	23.10	24.00
Band13	5MHz	16QAM	23255	25RB#0	22.37	23.00
Band13	10MHz	QPSK	23230	1RB#0	23.60	24.00
Band13	10MHz	16QAM	23230	1RB#0	22.75	23.00
Band13	10MHz	QPSK	23230	1RB#24	23.38	24.00
Band13	10MHz	16QAM	23230	1RB#24	22.62	23.00
Band13	10MHz	QPSK	23230	1RB#49	23.12	24.00
Band13	10MHz	16QAM	23230	1RB#49	22.36	23.00
Band13	10MHz	QPSK	23230	25RB#0	22.58	23.00
Band13	10MHz	16QAM	23230	25RB#0	21.82	22.00
Band13	10MHz	QPSK	23230	25RB#12	22.58	23.00
Band13	10MHz	16QAM	23230	25RB#12	21.82	22.00
Band13	10MHz	QPSK	23230	25RB#25	22.49	23.00
Band13	10MHz	16QAM	23230	25RB#25	21.63	22.00
Band13	10MHz	QPSK	23230	50RB#0	22.57	23.00
Band13	10MHz	16QAM	23230	50RB#0	21.81	22.00



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**7.1.12. Conducted Power Measurement Results(LTE Band 17)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band17	5MHz	QPSK	23755	1RB#0	22.59	23.00
Band17	5MHz	16QAM	23755	1RB#0	22.71	23.00
Band17	5MHz	QPSK	23755	1RB#12	22.68	23.00
Band17	5MHz	16QAM	23755	1RB#12	22.66	23.00
Band17	5MHz	QPSK	23755	1RB#24	22.65	23.00
Band17	5MHz	16QAM	23755	1RB#24	22.64	23.00
Band17	5MHz	QPSK	23755	12RB#0	22.69	23.00
Band17	5MHz	16QAM	23755	12RB#0	22.68	23.00
Band17	5MHz	QPSK	23755	12RB#6	22.68	23.00
Band17	5MHz	16QAM	23755	12RB#6	22.67	23.00
Band17	5MHz	QPSK	23755	12RB#13	22.67	23.00
Band17	5MHz	16QAM	23755	12RB#13	22.67	23.00
Band17	5MHz	QPSK	23755	25RB#0	22.66	23.00
Band17	5MHz	16QAM	23755	25RB#0	22.65	23.00
Band17	5MHz	QPSK	23790	1RB#0	23.51	24.00
Band17	5MHz	16QAM	23790	1RB#0	22.95	23.00
Band17	5MHz	QPSK	23790	1RB#12	23.45	24.00
Band17	5MHz	16QAM	23790	1RB#12	22.99	23.00
Band17	5MHz	QPSK	23790	1RB#24	23.46	24.00
Band17	5MHz	16QAM	23790	1RB#24	22.90	23.00
Band17	5MHz	QPSK	23790	12RB#0	22.74	23.00
Band17	5MHz	16QAM	23790	12RB#0	21.82	22.00
Band17	5MHz	QPSK	23790	12RB#6	22.75	23.00
Band17	5MHz	16QAM	23790	12RB#6	21.82	22.00
Band17	5MHz	QPSK	23790	12RB#13	22.65	23.00
Band17	5MHz	16QAM	23790	12RB#13	21.80	22.00
Band17	5MHz	QPSK	23790	25RB#0	22.75	23.00
Band17	5MHz	16QAM	23790	25RB#0	21.78	22.00
Band17	5MHz	QPSK	23825	1RB#0	23.47	24.00
Band17	5MHz	16QAM	23825	1RB#0	22.40	23.00
Band17	5MHz	QPSK	23825	1RB#12	23.44	24.00
Band17	5MHz	16QAM	23825	1RB#12	22.68	23.00
Band17	5MHz	QPSK	23825	1RB#24	23.71	24.00
Band17	5MHz	16QAM	23825	1RB#24	22.61	23.00
Band17	5MHz	QPSK	23825	12RB#0	22.59	23.00
Band17	5MHz	16QAM	23825	12RB#0	21.86	22.00
Band17	5MHz	QPSK	23825	12RB#6	22.59	23.00
Band17	5MHz	16QAM	23825	12RB#6	21.70	22.00
Band17	5MHz	QPSK	23825	12RB#13	22.61	23.00
Band17	5MHz	16QAM	23825	12RB#13	21.69	22.00
Band17	5MHz	QPSK	23825	25RB#0	22.74	23.00
Band17	5MHz	16QAM	23825	25RB#0	21.82	22.00
Band17	10MHz	QPSK	23780	1RB#0	23.18	24.00
Band17	10MHz	16QAM	23780	1RB#0	22.33	23.00
Band17	10MHz	QPSK	23780	1RB#24	23.29	24.00
Band17	10MHz	16QAM	23780	1RB#24	22.27	23.00
Band17	10MHz	QPSK	23780	1RB#49	23.30	24.00
Band17	10MHz	16QAM	23780	1RB#49	22.35	23.00
Band17	10MHz	QPSK	23780	25RB#0	22.60	23.00
Band17	10MHz	16QAM	23780	25RB#0	21.61	22.00
Band17	10MHz	QPSK	23780	25RB#12	22.61	23.00
Band17	10MHz	16QAM	23780	25RB#12	21.61	22.00
Band17	10MHz	QPSK	23780	25RB#25	22.49	23.00
Band17	10MHz	16QAM	23780	25RB#25	21.66	22.00
Band17	10MHz	QPSK	23780	50RB#0	22.68	23.00
Band17	10MHz	16QAM	23780	50RB#0	21.62	22.00
Band17	10MHz	QPSK	23790	1RB#0	23.69	24.00
Band17	10MHz	16QAM	23790	1RB#0	22.59	23.00
Band17	10MHz	QPSK	23790	1RB#24	23.66	24.00
Band17	10MHz	16QAM	23790	1RB#24	22.50	23.00



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Band17	10MHz	QPSK	23790	1RB#49	23.42	24.00
Band17	10MHz	16QAM	23790	1RB#49	22.64	23.00
Band17	10MHz	QPSK	23790	25RB#0	22.52	23.00
Band17	10MHz	16QAM	23790	25RB#0	21.77	22.00
Band17	10MHz	QPSK	23790	25RB#12	22.58	23.00
Band17	10MHz	16QAM	23790	25RB#12	21.85	22.00
Band17	10MHz	QPSK	23790	25RB#25	22.45	23.00
Band17	10MHz	16QAM	23790	25RB#25	21.70	22.00
Band17	10MHz	QPSK	23790	50RB#0	22.45	23.00
Band17	10MHz	16QAM	23790	50RB#0	21.71	22.00
Band17	10MHz	QPSK	23800	1RB#0	23.39	24.00
Band17	10MHz	16QAM	23800	1RB#0	23.27	24.00
Band17	10MHz	QPSK	23800	1RB#24	23.39	24.00
Band17	10MHz	16QAM	23800	1RB#24	23.30	24.00
Band17	10MHz	QPSK	23800	1RB#49	23.24	24.00
Band17	10MHz	16QAM	23800	1RB#49	23.16	24.00
Band17	10MHz	QPSK	23800	25RB#0	22.54	23.00
Band17	10MHz	16QAM	23800	25RB#0	21.75	22.00
Band17	10MHz	QPSK	23800	25RB#12	22.55	23.00
Band17	10MHz	16QAM	23800	25RB#12	21.76	22.00
Band17	10MHz	QPSK	23800	25RB#25	22.74	23.00
Band17	10MHz	16QAM	23800	25RB#25	21.76	22.00
Band17	10MHz	QPSK	23800	50RB#0	22.63	23.00
Band17	10MHz	16QAM	23800	50RB#0	21.71	22.00



**7.1.13. Conducted Power Measurement Results(LTE Band 66)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band66	1.4MHz	QPSK	131979	1RB#0	20.78	21.00
Band66	1.4MHz	16QAM	131979	1RB#0	19.90	20.00
Band66	1.4MHz	QPSK	131979	1RB#2	20.81	21.00
Band66	1.4MHz	16QAM	131979	1RB#2	19.22	20.00
Band66	1.4MHz	QPSK	131979	1RB#5	20.72	21.00
Band66	1.4MHz	16QAM	131979	1RB#5	19.29	20.00
Band66	1.4MHz	QPSK	131979	3RB#0	20.75	21.00
Band66	1.4MHz	16QAM	131979	3RB#0	19.84	20.00
Band66	1.4MHz	QPSK	131979	3RB#1	20.72	21.00
Band66	1.4MHz	16QAM	131979	3RB#1	20.02	21.00
Band66	1.4MHz	QPSK	131979	3RB#3	20.87	21.00
Band66	1.4MHz	16QAM	131979	3RB#3	19.92	20.00
Band66	1.4MHz	QPSK	131979	6RB#0	19.87	20.00
Band66	1.4MHz	16QAM	131979	6RB#0	19.24	20.00
Band66	1.4MHz	QPSK	132322	1RB#0	21.61	22.00
Band66	1.4MHz	16QAM	132322	1RB#0	21.02	22.00
Band66	1.4MHz	QPSK	132322	1RB#2	21.59	22.00
Band66	1.4MHz	16QAM	132322	1RB#2	21.23	22.00
Band66	1.4MHz	QPSK	132322	1RB#5	21.64	22.00
Band66	1.4MHz	16QAM	132322	1RB#5	21.28	22.00
Band66	1.4MHz	QPSK	132322	3RB#0	21.88	22.00
Band66	1.4MHz	16QAM	132322	3RB#0	20.81	21.00
Band66	1.4MHz	QPSK	132322	3RB#1	21.87	22.00
Band66	1.4MHz	16QAM	132322	3RB#1	20.57	21.00
Band66	1.4MHz	QPSK	132322	3RB#3	21.73	22.00
Band66	1.4MHz	16QAM	132322	3RB#3	20.61	21.00
Band66	1.4MHz	QPSK	132322	6RB#0	20.98	21.00
Band66	1.4MHz	16QAM	132322	6RB#0	20.25	21.00
Band66	1.4MHz	QPSK	132665	1RB#0	22.75	23.00
Band66	1.4MHz	16QAM	132665	1RB#0	22.08	23.00
Band66	1.4MHz	QPSK	132665	1RB#2	22.76	23.00
Band66	1.4MHz	16QAM	132665	1RB#2	22.09	23.00
Band66	1.4MHz	QPSK	132665	1RB#5	22.72	23.00
Band66	1.4MHz	16QAM	132665	1RB#5	22.07	23.00
Band66	1.4MHz	QPSK	132665	3RB#0	22.88	23.00
Band66	1.4MHz	16QAM	132665	3RB#0	21.81	22.00
Band66	1.4MHz	QPSK	132665	3RB#1	22.87	23.00
Band66	1.4MHz	16QAM	132665	3RB#1	21.84	22.00
Band66	1.4MHz	QPSK	132665	3RB#3	22.86	23.00
Band66	1.4MHz	16QAM	132665	3RB#3	21.88	22.00
Band66	1.4MHz	QPSK	132665	6RB#0	22.00	23.00
Band66	1.4MHz	16QAM	132665	6RB#0	21.20	22.00
Band66	3MHz	QPSK	131987	1RB#0	22.97	23.00
Band66	3MHz	16QAM	131987	1RB#0	22.22	23.00
Band66	3MHz	QPSK	131987	1RB#8	23.00	24.00
Band66	3MHz	16QAM	131987	1RB#8	22.23	23.00
Band66	3MHz	QPSK	131987	1RB#14	23.00	24.00
Band66	3MHz	16QAM	131987	1RB#14	22.18	23.00
Band66	3MHz	QPSK	131987	8RB#0	22.30	23.00
Band66	3MHz	16QAM	131987	8RB#0	21.62	22.00
Band66	3MHz	QPSK	131987	8RB#4	22.33	23.00
Band66	3MHz	16QAM	131987	8RB#4	21.62	22.00
Band66	3MHz	QPSK	131987	8RB#7	22.23	23.00
Band66	3MHz	16QAM	131987	8RB#7	21.49	22.00
Band66	3MHz	QPSK	131987	15RB#0	22.22	23.00
Band66	3MHz	16QAM	131987	15RB#0	21.42	22.00
Band66	3MHz	QPSK	132322	1RB#0	23.13	24.00
Band66	3MHz	16QAM	132322	1RB#0	21.99	22.00
Band66	3MHz	QPSK	132322	1RB#8	23.08	24.00
Band66	3MHz	16QAM	132322	1RB#8	22.00	23.00



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Band66	3MHz	QPSK	132322	1RB#14	23.10	24.00
Band66	3MHz	16QAM	132322	1RB#14	21.92	22.00
Band66	3MHz	QPSK	132322	8RB#0	22.20	23.00
Band66	3MHz	16QAM	132322	8RB#0	21.63	22.00
Band66	3MHz	QPSK	132322	8RB#4	22.21	23.00
Band66	3MHz	16QAM	132322	8RB#4	21.53	22.00
Band66	3MHz	QPSK	132322	8RB#7	22.25	23.00
Band66	3MHz	16QAM	132322	8RB#7	21.67	22.00
Band66	3MHz	QPSK	132322	15RB#0	22.26	23.00
Band66	3MHz	16QAM	132322	15RB#0	21.23	22.00
Band66	3MHz	QPSK	132657	1RB#0	22.86	23.00
Band66	3MHz	16QAM	132657	1RB#0	21.99	22.00
Band66	3MHz	QPSK	132657	1RB#8	22.83	23.00
Band66	3MHz	16QAM	132657	1RB#8	21.98	22.00
Band66	3MHz	QPSK	132657	1RB#14	22.75	23.00
Band66	3MHz	16QAM	132657	1RB#14	21.96	22.00
Band66	3MHz	QPSK	132657	8RB#0	22.16	23.00
Band66	3MHz	16QAM	132657	8RB#0	21.25	22.00
Band66	3MHz	QPSK	132657	8RB#4	22.03	23.00
Band66	3MHz	16QAM	132657	8RB#4	21.37	22.00
Band66	3MHz	QPSK	132657	8RB#7	22.03	23.00
Band66	3MHz	16QAM	132657	8RB#7	21.31	22.00
Band66	3MHz	QPSK	132657	15RB#0	21.99	22.00
Band66	3MHz	16QAM	132657	15RB#0	21.22	22.00
Band66	5MHz	QPSK	131997	1RB#0	23.13	24.00
Band66	5MHz	16QAM	131997	1RB#0	21.78	22.00
Band66	5MHz	QPSK	131997	1RB#12	23.10	24.00
Band66	5MHz	16QAM	131997	1RB#12	21.78	22.00
Band66	5MHz	QPSK	131997	1RB#24	23.09	24.00
Band66	5MHz	16QAM	131997	1RB#24	21.76	22.00
Band66	5MHz	QPSK	131997	12RB#0	22.28	23.00
Band66	5MHz	16QAM	131997	12RB#0	21.46	22.00
Band66	5MHz	QPSK	131997	12RB#6	22.29	23.00
Band66	5MHz	16QAM	131997	12RB#6	21.45	22.00
Band66	5MHz	QPSK	131997	12RB#13	22.22	23.00
Band66	5MHz	16QAM	131997	12RB#13	21.36	22.00
Band66	5MHz	QPSK	131997	25RB#0	22.22	23.00
Band66	5MHz	16QAM	131997	25RB#0	21.50	22.00
Band66	5MHz	QPSK	132322	1RB#0	22.90	23.00
Band66	5MHz	16QAM	132322	1RB#0	22.44	23.00
Band66	5MHz	QPSK	132322	1RB#12	22.90	23.00
Band66	5MHz	16QAM	132322	1RB#12	21.99	22.00
Band66	5MHz	QPSK	132322	1RB#24	23.11	24.00
Band66	5MHz	16QAM	132322	1RB#24	22.00	23.00
Band66	5MHz	QPSK	132322	12RB#0	22.26	23.00
Band66	5MHz	16QAM	132322	12RB#0	21.41	22.00
Band66	5MHz	QPSK	132322	12RB#6	22.26	23.00
Band66	5MHz	16QAM	132322	12RB#6	21.54	22.00
Band66	5MHz	QPSK	132322	12RB#13	22.25	23.00
Band66	5MHz	16QAM	132322	12RB#13	21.44	22.00
Band66	5MHz	QPSK	132322	25RB#0	22.34	23.00
Band66	5MHz	16QAM	132322	25RB#0	21.52	22.00
Band66	5MHz	QPSK	132647	1RB#0	22.90	23.00
Band66	5MHz	16QAM	132647	1RB#0	21.54	22.00
Band66	5MHz	QPSK	132647	1RB#12	22.86	23.00
Band66	5MHz	16QAM	132647	1RB#12	21.60	22.00
Band66	5MHz	QPSK	132647	1RB#24	22.83	23.00
Band66	5MHz	16QAM	132647	1RB#24	21.60	22.00
Band66	5MHz	QPSK	132647	12RB#0	22.12	23.00
Band66	5MHz	16QAM	132647	12RB#0	21.24	22.00
Band66	5MHz	QPSK	132647	12RB#6	22.09	23.00
Band66	5MHz	16QAM	132647	12RB#6	21.24	22.00
Band66	5MHz	QPSK	132647	12RB#13	22.06	23.00
Band66	5MHz	16QAM	132647	12RB#13	21.22	22.00
Band66	5MHz	QPSK	132647	25RB#0	21.99	22.00



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Band66	5MHz	16QAM	132647	25RB#0	21.29	22.00
Band66	10MHz	QPSK	132022	1RB#0	22.64	23.00
Band66	10MHz	16QAM	132022	1RB#0	21.90	22.00
Band66	10MHz	QPSK	132022	1RB#24	22.64	23.00
Band66	10MHz	16QAM	132022	1RB#24	21.97	22.00
Band66	10MHz	QPSK	132022	1RB#49	22.67	23.00
Band66	10MHz	16QAM	132022	1RB#49	21.82	22.00
Band66	10MHz	QPSK	132022	25RB#0	21.94	22.00
Band66	10MHz	16QAM	132022	25RB#0	20.98	21.00
Band66	10MHz	QPSK	132022	25RB#12	21.94	22.00
Band66	10MHz	16QAM	132022	25RB#12	20.95	21.00
Band66	10MHz	QPSK	132022	25RB#25	21.88	22.00
Band66	10MHz	16QAM	132022	25RB#25	20.99	21.00
Band66	10MHz	QPSK	132022	50RB#0	21.86	22.00
Band66	10MHz	16QAM	132022	50RB#0	21.13	22.00
Band66	10MHz	QPSK	132322	1RB#0	22.83	23.00
Band66	10MHz	16QAM	132322	1RB#0	21.83	22.00
Band66	10MHz	QPSK	132322	1RB#24	22.93	23.00
Band66	10MHz	16QAM	132322	1RB#24	21.81	22.00
Band66	10MHz	QPSK	132322	1RB#49	22.85	23.00
Band66	10MHz	16QAM	132322	1RB#49	21.68	22.00
Band66	10MHz	QPSK	132322	25RB#0	21.81	22.00
Band66	10MHz	16QAM	132322	25RB#0	21.25	22.00
Band66	10MHz	QPSK	132322	25RB#12	22.07	23.00
Band66	10MHz	16QAM	132322	25RB#12	21.23	22.00
Band66	10MHz	QPSK	132322	25RB#25	21.95	22.00
Band66	10MHz	16QAM	132322	25RB#25	21.20	22.00
Band66	10MHz	QPSK	132322	50RB#0	21.89	22.00
Band66	10MHz	16QAM	132322	50RB#0	21.09	22.00
Band66	10MHz	QPSK	132622	1RB#0	22.70	23.00
Band66	10MHz	16QAM	132622	1RB#0	21.99	22.00
Band66	10MHz	QPSK	132622	1RB#24	22.67	23.00
Band66	10MHz	16QAM	132622	1RB#24	21.94	22.00
Band66	10MHz	QPSK	132622	1RB#49	22.56	23.00
Band66	10MHz	16QAM	132622	1RB#49	21.86	22.00
Band66	10MHz	QPSK	132622	25RB#0	21.92	22.00
Band66	10MHz	16QAM	132622	25RB#0	21.06	22.00
Band66	10MHz	QPSK	132622	25RB#12	21.89	22.00
Band66	10MHz	16QAM	132622	25RB#12	21.03	22.00
Band66	10MHz	QPSK	132622	25RB#25	21.83	22.00
Band66	10MHz	16QAM	132622	25RB#25	21.01	22.00
Band66	10MHz	QPSK	132622	50RB#0	21.99	22.00
Band66	10MHz	16QAM	132622	50RB#0	21.04	22.00
Band66	15MHz	QPSK	132047	1RB#0	22.84	23.00
Band66	15MHz	16QAM	132047	1RB#0	22.12	23.00
Band66	15MHz	QPSK	132047	1RB#38	22.86	23.00
Band66	15MHz	16QAM	132047	1RB#38	22.11	23.00
Band66	15MHz	QPSK	132047	1RB#74	22.79	23.00
Band66	15MHz	16QAM	132047	1RB#74	22.11	23.00
Band66	15MHz	QPSK	132047	38RB#0	22.17	23.00
Band66	15MHz	16QAM	132047	38RB#0	22.17	23.00
Band66	15MHz	QPSK	132047	38RB#18	22.17	23.00
Band66	15MHz	16QAM	132047	38RB#18	22.16	23.00
Band66	15MHz	QPSK	132047	38RB#37	22.16	23.00
Band66	15MHz	16QAM	132047	38RB#37	22.15	23.00
Band66	15MHz	QPSK	132047	75RB#0	22.15	23.00
Band66	15MHz	16QAM	132047	75RB#0	21.32	22.00
Band66	15MHz	QPSK	132322	1RB#0	22.79	23.00
Band66	15MHz	16QAM	132322	1RB#0	22.22	23.00
Band66	15MHz	QPSK	132322	1RB#38	22.77	23.00
Band66	15MHz	16QAM	132322	1RB#38	22.18	23.00
Band66	15MHz	QPSK	132322	1RB#74	22.70	23.00
Band66	15MHz	16QAM	132322	1RB#74	22.13	23.00
Band66	15MHz	QPSK	132322	38RB#0	22.12	23.00
Band66	15MHz	16QAM	132322	38RB#0	22.12	23.00



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Band66	15MHz	QPSK	132322	38RB#18	22.11	23.00
Band66	15MHz	16QAM	132322	38RB#18	22.10	23.00
Band66	15MHz	QPSK	132322	38RB#37	22.10	23.00
Band66	15MHz	16QAM	132322	38RB#37	22.10	23.00
Band66	15MHz	QPSK	132322	75RB#0	22.10	23.00
Band66	15MHz	16QAM	132322	75RB#0	21.35	22.00
Band66	15MHz	QPSK	132597	1RB#0	22.88	23.00
Band66	15MHz	16QAM	132597	1RB#0	22.09	23.00
Band66	15MHz	QPSK	132597	1RB#38	22.75	23.00
Band66	15MHz	16QAM	132597	1RB#38	22.02	23.00
Band66	15MHz	QPSK	132597	1RB#74	22.65	23.00
Band66	15MHz	16QAM	132597	1RB#74	21.85	22.00
Band66	15MHz	QPSK	132597	38RB#0	22.03	23.00
Band66	15MHz	16QAM	132597	38RB#0	22.01	23.00
Band66	15MHz	QPSK	132597	38RB#18	22.01	23.00
Band66	15MHz	16QAM	132597	38RB#18	22.00	23.00
Band66	15MHz	QPSK	132597	38RB#37	21.99	22.00
Band66	15MHz	16QAM	132597	38RB#37	21.99	22.00
Band66	15MHz	QPSK	132597	75RB#0	21.99	22.00
Band66	15MHz	16QAM	132597	75RB#0	21.17	22.00
Band66	20MHz	QPSK	132072	1RB#0	23.31	24.00
Band66	20MHz	16QAM	132072	1RB#0	22.07	23.00
Band66	20MHz	QPSK	132072	1RB#49	23.23	24.00
Band66	20MHz	16QAM	132072	1RB#49	22.02	23.00
Band66	20MHz	QPSK	132072	1RB#99	22.87	23.00
Band66	20MHz	16QAM	132072	1RB#99	21.93	22.00
Band66	20MHz	QPSK	132072	50RB#0	22.20	23.00
Band66	20MHz	16QAM	132072	50RB#0	21.44	22.00
Band66	20MHz	QPSK	132072	50RB#25	22.13	23.00
Band66	20MHz	16QAM	132072	50RB#25	21.44	22.00
Band66	20MHz	QPSK	132072	50RB#50	22.08	23.00
Band66	20MHz	16QAM	132072	50RB#50	21.38	22.00
Band66	20MHz	QPSK	132072	100RB#0	22.19	23.00
Band66	20MHz	16QAM	132072	100RB#0	21.31	22.00
Band66	20MHz	QPSK	132322	1RB#0	23.00	24.00
Band66	20MHz	16QAM	132322	1RB#0	22.70	23.00
Band66	20MHz	QPSK	132322	1RB#49	23.04	24.00
Band66	20MHz	16QAM	132322	1RB#49	22.62	23.00
Band66	20MHz	QPSK	132322	1RB#99	23.06	24.00
Band66	20MHz	16QAM	132322	1RB#99	22.49	23.00
Band66	20MHz	QPSK	132322	50RB#0	22.11	23.00
Band66	20MHz	16QAM	132322	50RB#0	21.45	22.00
Band66	20MHz	QPSK	132322	50RB#25	22.23	23.00
Band66	20MHz	16QAM	132322	50RB#25	21.45	22.00
Band66	20MHz	QPSK	132322	50RB#50	22.15	23.00
Band66	20MHz	16QAM	132322	50RB#50	21.35	22.00
Band66	20MHz	QPSK	132322	100RB#0	22.18	23.00
Band66	20MHz	16QAM	132322	100RB#0	21.41	22.00
Band66	20MHz	QPSK	132572	1RB#0	23.22	24.00
Band66	20MHz	16QAM	132572	1RB#0	22.01	23.00
Band66	20MHz	QPSK	132572	1RB#49	23.18	24.00
Band66	20MHz	16QAM	132572	1RB#49	22.07	23.00
Band66	20MHz	QPSK	132572	1RB#99	23.00	24.00
Band66	20MHz	16QAM	132572	1RB#99	21.86	22.00
Band66	20MHz	QPSK	132572	50RB#0	22.02	23.00
Band66	20MHz	16QAM	132572	50RB#0	21.38	22.00
Band66	20MHz	QPSK	132572	50RB#25	22.17	23.00
Band66	20MHz	16QAM	132572	50RB#25	21.37	22.00
Band66	20MHz	QPSK	132572	50RB#50	22.03	23.00
Band66	20MHz	16QAM	132572	50RB#50	21.26	22.00
Band66	20MHz	QPSK	132572	100RB#0	22.15	23.00
Band66	20MHz	16QAM	132572	100RB#0	21.21	22.00



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**7.1.14. Conducted Power Measurement Results(LTE Band 71)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band71	5MHz	QPSK	133147	1RB#0	24.17	25.00
Band71	5MHz	16QAM	133147	1RB#0	23.28	24.00
Band71	5MHz	QPSK	133147	1RB#12	24.21	25.00
Band71	5MHz	16QAM	133147	1RB#12	23.28	24.00
Band71	5MHz	QPSK	133147	1RB#24	24.28	25.00
Band71	5MHz	16QAM	133147	1RB#24	23.34	24.00
Band71	5MHz	QPSK	133147	12RB#0	23.09	24.00
Band71	5MHz	16QAM	133147	12RB#0	22.19	23.00
Band71	5MHz	QPSK	133147	12RB#6	23.11	24.00
Band71	5MHz	16QAM	133147	12RB#6	22.17	23.00
Band71	5MHz	QPSK	133147	12RB#13	23.21	24.00
Band71	5MHz	16QAM	133147	12RB#13	22.28	23.00
Band71	5MHz	QPSK	133147	25RB#0	23.18	24.00
Band71	5MHz	16QAM	133147	25RB#0	22.13	23.00
Band71	5MHz	QPSK	133297	1RB#0	24.44	25.00
Band71	5MHz	16QAM	133297	1RB#0	23.27	24.00
Band71	5MHz	QPSK	133297	1RB#12	24.30	25.00
Band71	5MHz	16QAM	133297	1RB#12	23.14	24.00
Band71	5MHz	QPSK	133297	1RB#24	24.21	25.00
Band71	5MHz	16QAM	133297	1RB#24	23.07	24.00
Band71	5MHz	QPSK	133297	12RB#0	23.39	24.00
Band71	5MHz	16QAM	133297	12RB#0	22.38	23.00
Band71	5MHz	QPSK	133297	12RB#6	23.38	24.00
Band71	5MHz	16QAM	133297	12RB#6	22.40	23.00
Band71	5MHz	QPSK	133297	12RB#13	23.21	24.00
Band71	5MHz	16QAM	133297	12RB#13	22.22	23.00
Band71	5MHz	QPSK	133297	25RB#0	23.35	24.00
Band71	5MHz	16QAM	133297	25RB#0	22.35	23.00
Band71	5MHz	QPSK	133447	1RB#0	24.14	25.00
Band71	5MHz	16QAM	133447	1RB#0	23.04	24.00
Band71	5MHz	QPSK	133447	1RB#12	24.21	25.00
Band71	5MHz	16QAM	133447	1RB#12	23.04	24.00
Band71	5MHz	QPSK	133447	1RB#24	24.24	25.00
Band71	5MHz	16QAM	133447	1RB#24	23.09	24.00
Band71	5MHz	QPSK	133447	12RB#0	23.03	24.00
Band71	5MHz	16QAM	133447	12RB#0	22.04	23.00
Band71	5MHz	QPSK	133447	12RB#6	23.06	24.00
Band71	5MHz	16QAM	133447	12RB#6	22.05	23.00
Band71	5MHz	QPSK	133447	12RB#13	23.12	24.00
Band71	5MHz	16QAM	133447	12RB#13	22.14	23.00
Band71	5MHz	QPSK	133447	25RB#0	23.12	24.00
Band71	5MHz	16QAM	133447	25RB#0	22.09	23.00
Band71	10MHz	QPSK	133172	1RB#0	24.14	25.00
Band71	10MHz	16QAM	133172	1RB#0	22.96	23.00
Band71	10MHz	QPSK	133172	1RB#24	24.25	25.00
Band71	10MHz	16QAM	133172	1RB#24	23.01	24.00
Band71	10MHz	QPSK	133172	1RB#49	24.38	25.00
Band71	10MHz	16QAM	133172	1RB#49	23.17	24.00
Band71	10MHz	QPSK	133172	25RB#0	23.14	24.00
Band71	10MHz	16QAM	133172	25RB#0	22.16	23.00
Band71	10MHz	QPSK	133172	25RB#12	23.18	24.00
Band71	10MHz	16QAM	133172	25RB#12	22.14	23.00
Band71	10MHz	QPSK	133172	25RB#25	23.38	24.00
Band71	10MHz	16QAM	133172	25RB#25	22.36	23.00
Band71	10MHz	QPSK	133172	50RB#0	23.28	24.00
Band71	10MHz	16QAM	133172	50RB#0	22.23	23.00
Band71	10MHz	QPSK	133297	1RB#0	24.48	25.00
Band71	10MHz	16QAM	133297	1RB#0	23.45	24.00
Band71	10MHz	QPSK	133297	1RB#24	24.35	25.00
Band71	10MHz	16QAM	133297	1RB#24	23.28	24.00



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Band71	10MHz	QPSK	133297	1RB#49	24.32	25.00
Band71	10MHz	16QAM	133297	1RB#49	23.32	24.00
Band71	10MHz	QPSK	133297	25RB#0	23.52	24.00
Band71	10MHz	16QAM	133297	25RB#0	22.46	23.00
Band71	10MHz	QPSK	133297	25RB#12	23.52	24.00
Band71	10MHz	16QAM	133297	25RB#12	22.46	23.00
Band71	10MHz	QPSK	133297	25RB#25	23.28	24.00
Band71	10MHz	16QAM	133297	25RB#25	22.20	23.00
Band71	10MHz	QPSK	133297	50RB#0	23.39	24.00
Band71	10MHz	16QAM	133297	50RB#0	22.33	23.00
Band71	10MHz	QPSK	133422	1RB#0	24.28	25.00
Band71	10MHz	16QAM	133422	1RB#0	23.16	24.00
Band71	10MHz	QPSK	133422	1RB#24	24.04	25.00
Band71	10MHz	16QAM	133422	1RB#24	22.95	23.00
Band71	10MHz	QPSK	133422	1RB#49	24.14	25.00
Band71	10MHz	16QAM	133422	1RB#49	22.99	23.00
Band71	10MHz	QPSK	133422	25RB#0	23.15	24.00
Band71	10MHz	16QAM	133422	25RB#0	22.13	23.00
Band71	10MHz	QPSK	133422	25RB#12	23.12	24.00
Band71	10MHz	16QAM	133422	25RB#12	22.14	23.00
Band71	10MHz	QPSK	133422	25RB#25	23.23	24.00
Band71	10MHz	16QAM	133422	25RB#25	22.20	23.00
Band71	10MHz	QPSK	133422	50RB#0	23.14	24.00
Band71	10MHz	16QAM	133422	50RB#0	22.13	23.00
Band71	15MHz	QPSK	133197	1RB#0	24.17	25.00
Band71	15MHz	16QAM	133197	1RB#0	22.95	23.00
Band71	15MHz	QPSK	133197	1RB#38	24.37	25.00
Band71	15MHz	16QAM	133197	1RB#38	23.16	24.00
Band71	15MHz	QPSK	133197	1RB#74	24.41	25.00
Band71	15MHz	16QAM	133197	1RB#74	23.19	24.00
Band71	15MHz	QPSK	133197	38RB#0	22.95	23.00
Band71	15MHz	16QAM	133197	38RB#0	22.97	23.00
Band71	15MHz	QPSK	133197	38RB#18	23.12	24.00
Band71	15MHz	16QAM	133197	38RB#18	23.11	24.00
Band71	15MHz	QPSK	133197	38RB#37	23.19	24.00
Band71	15MHz	16QAM	133197	38RB#37	23.22	24.00
Band71	15MHz	QPSK	133197	75RB#0	23.30	24.00
Band71	15MHz	16QAM	133197	75RB#0	22.33	23.00
Band71	15MHz	QPSK	133297	1RB#0	24.48	25.00
Band71	15MHz	16QAM	133297	1RB#0	23.44	24.00
Band71	15MHz	QPSK	133297	1RB#38	24.42	25.00
Band71	15MHz	16QAM	133297	1RB#38	23.38	24.00
Band71	15MHz	QPSK	133297	1RB#74	24.25	25.00
Band71	15MHz	16QAM	133297	1RB#74	23.25	24.00
Band71	15MHz	QPSK	133297	38RB#0	23.38	24.00
Band71	15MHz	16QAM	133297	38RB#0	23.40	24.00
Band71	15MHz	QPSK	133297	38RB#18	23.32	24.00
Band71	15MHz	16QAM	133297	38RB#18	23.34	24.00
Band71	15MHz	QPSK	133297	38RB#37	23.30	24.00
Band71	15MHz	16QAM	133297	38RB#37	23.27	24.00
Band71	15MHz	QPSK	133297	75RB#0	23.32	24.00
Band71	15MHz	16QAM	133297	75RB#0	22.27	23.00
Band71	15MHz	QPSK	133397	1RB#0	24.23	25.00
Band71	15MHz	16QAM	133397	1RB#0	23.40	24.00
Band71	15MHz	QPSK	133397	1RB#38	24.13	25.00
Band71	15MHz	16QAM	133397	1RB#38	23.26	24.00
Band71	15MHz	QPSK	133397	1RB#74	24.14	25.00
Band71	15MHz	16QAM	133397	1RB#74	23.30	24.00
Band71	15MHz	QPSK	133397	38RB#0	23.37	24.00
Band71	15MHz	16QAM	133397	38RB#0	23.37	24.00
Band71	15MHz	QPSK	133397	38RB#18	23.25	24.00
Band71	15MHz	16QAM	133397	38RB#18	23.26	24.00
Band71	15MHz	QPSK	133397	38RB#37	23.23	24.00
Band71	15MHz	16QAM	133397	38RB#37	23.24	24.00
Band71	15MHz	QPSK	133397	75RB#0	23.22	24.00



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Band71	15MHz	16QAM	133397	75RB#0	22.28	23.00
Band71	20MHz	QPSK	133222	1RB#0	24.12	25.00
Band71	20MHz	16QAM	133222	1RB#0	22.99	23.00
Band71	20MHz	QPSK	133222	1RB#49	24.44	25.00
Band71	20MHz	16QAM	133222	1RB#49	23.29	24.00
Band71	20MHz	QPSK	133222	1RB#99	24.36	25.00
Band71	20MHz	16QAM	133222	1RB#99	23.20	24.00
Band71	20MHz	QPSK	133222	50RB#0	23.25	24.00
Band71	20MHz	16QAM	133222	50RB#0	22.33	23.00
Band71	20MHz	QPSK	133222	50RB#25	23.25	24.00
Band71	20MHz	16QAM	133222	50RB#25	22.33	23.00
Band71	20MHz	QPSK	133222	50RB#50	23.42	24.00
Band71	20MHz	16QAM	133222	50RB#50	22.44	23.00
Band71	20MHz	QPSK	133222	100RB#0	23.33	24.00
Band71	20MHz	16QAM	133222	100RB#0	22.33	23.00
Band71	20MHz	QPSK	133322	1RB#0	24.52	25.00
Band71	20MHz	16QAM	133322	1RB#0	23.44	24.00
Band71	20MHz	QPSK	133322	1RB#49	24.43	25.00
Band71	20MHz	16QAM	133322	1RB#49	23.26	24.00
Band71	20MHz	QPSK	133322	1RB#99	24.27	25.00
Band71	20MHz	16QAM	133322	1RB#99	23.13	24.00
Band71	20MHz	QPSK	133322	50RB#0	23.52	24.00
Band71	20MHz	16QAM	133322	50RB#0	22.50	23.00
Band71	20MHz	QPSK	133322	50RB#25	23.52	24.00
Band71	20MHz	16QAM	133322	50RB#25	22.50	23.00
Band71	20MHz	QPSK	133322	50RB#50	23.24	24.00
Band71	20MHz	16QAM	133322	50RB#50	22.25	23.00
Band71	20MHz	QPSK	133322	100RB#0	23.40	24.00
Band71	20MHz	16QAM	133322	100RB#0	22.29	23.00
Band71	20MHz	QPSK	133372	1RB#0	24.53	25.00
Band71	20MHz	16QAM	133372	1RB#0	23.70	24.00
Band71	20MHz	QPSK	133372	1RB#49	24.29	25.00
Band71	20MHz	16QAM	133372	1RB#49	23.50	24.00
Band71	20MHz	QPSK	133372	1RB#99	24.15	25.00
Band71	20MHz	16QAM	133372	1RB#99	23.33	24.00
Band71	20MHz	QPSK	133372	50RB#0	23.51	24.00
Band71	20MHz	16QAM	133372	50RB#0	22.48	23.00
Band71	20MHz	QPSK	133372	50RB#25	23.50	24.00
Band71	20MHz	16QAM	133372	50RB#25	22.50	23.00
Band71	20MHz	QPSK	133372	50RB#50	23.28	24.00
Band71	20MHz	16QAM	133372	50RB#50	22.30	23.00
Band71	20MHz	QPSK	133372	100RB#0	23.43	24.00
Band71	20MHz	16QAM	133372	100RB#0	22.40	23.00



**7.1.15. Conducted Power Measurement Results(WIFI 2.4G)**

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Tune Up (dBm)
NVNT	b	2412	Ant	14.25	15.00
NVNT	b	2437	Ant	15.14	16.00
NVNT	b	2462	Ant	14.36	15.00
NVNT	g	2412	Ant	13.98	14.00
NVNT	g	2437	Ant	14.25	15.00
NVNT	g	2462	Ant	14.33	15.00
NVNT	n20	2412	Ant	13.15	14.00
NVNT	n20	2437	Ant	12.41	13.00
NVNT	n20	2462	Ant	12.52	13.00
NVNT	n40	2422	Ant	13.01	14.00
NVNT	n40	2437	Ant	12.08	13.00
NVNT	n40	2452	Ant	12.41	13.00

Note:

a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.

b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

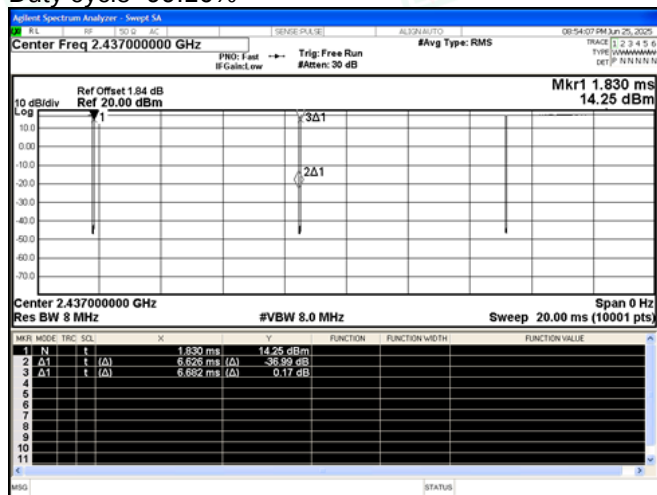
1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 2.4G (802.11b):

Duty cycle=99.16%



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**7.1.16. Conducted Power Measurement Results(WIFI 5.2G)**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Tune Up (dBm)
NVNT	a	5180	Ant	12.75	0.24	12.59	13.00
NVNT	a	5200	Ant	12.83	0.24	12.48	13.00
NVNT	a	5240	Ant	11.64	0.24	11.58	12.00
NVNT	n20	5180	Ant	11.9	0.12	11.57	12.00
NVNT	n20	5200	Ant	11.77	0.12	11.65	12.00
NVNT	n20	5240	Ant	10.13	0.12	10.15	11.00
NVNT	n40	5190	Ant	11.34	0.24	11.38	12.00
NVNT	n40	5230	Ant	10.07	0.24	10.11	11.00

Note:

a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.

b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

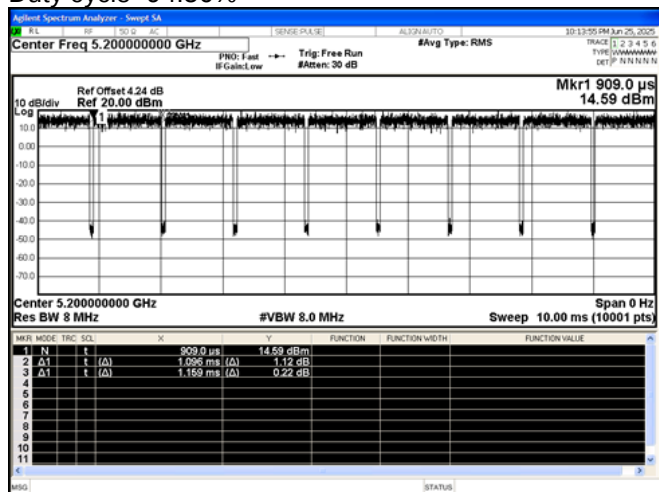
1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 5.2G (802.11a):

Duty cycle=94.56%



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**7.1.17. Conducted Power Measurement Results(WIFI 5.3G)**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Tune Up (dBm)
NVNT	a	5260	Ant	12.18	0.24	12.27	13.00
NVNT	a	5300	Ant	13.35	0.24	13.38	14.00
NVNT	a	5320	Ant	13.53	0.24	13.5	14.00
NVNT	n20	5260	Ant	11.09	0.12	11.13	12.00
NVNT	n20	5300	Ant	11.58	0.12	11.43	12.00
NVNT	n20	5320	Ant	11.73	0.12	11.36	12.00
NVNT	n40	5270	Ant	10.67	0.23	10.41	11.00
NVNT	n40	5310	Ant	11.7	0.24	11.90	12.00

Note:

a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.

b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

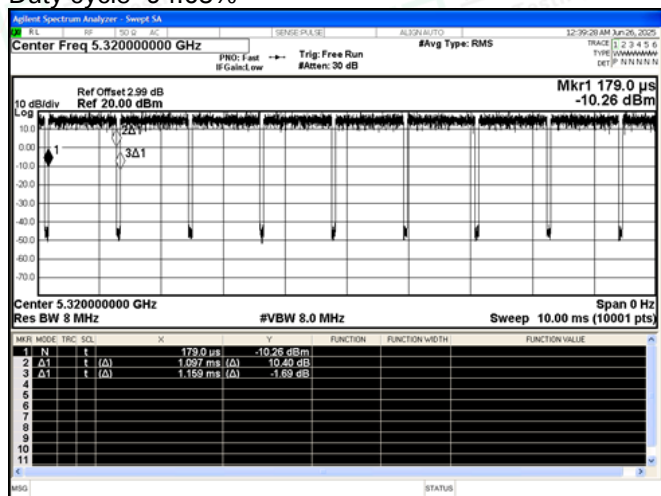
1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 5.3G (802.11a):

Duty cycle=94.65%



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**7.1.18. Conducted Power Measurement Results(WIFI 5.5G)**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Tune Up (dBm)
NVNT	a	5500	Ant	12.71	0.24	12.48	13.00
NVNT	a	5580	Ant	12.72	0.24	12.59	13.00
NVNT	a	5700	Ant	12.78	0.24	12.70	13.00
NVNT	n20	5500	Ant	11.26	0.12	11.20	12.00
NVNT	n20	5580	Ant	11.28	0.12	11.12	12.00
NVNT	n20	5700	Ant	11.39	0.12	11.29	12.00
NVNT	n40	5510	Ant	10.82	0.23	10.40	11.00
NVNT	n40	5550	Ant	10.71	0.24	10.59	11.00
NVNT	n40	5670	Ant	11.22	0.24	11.33	12.00

Note:

a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.

b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

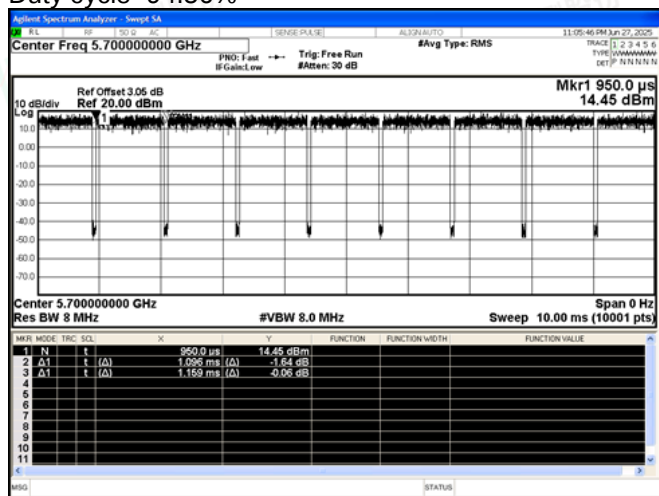
1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 5.5G (802.11a):

Duty cycle=94.56%



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**7.1.19. Conducted Power Measurement Results(WIFI 5.8G)**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Tune Up (dBm)
NVNT	a	5745	Ant	12.19	0.24	12.28	13.00
NVNT	a	5785	Ant	11.7	0.24	11.50	12.00
NVNT	a	5825	Ant	11.67	0.24	11.58	12.00
NVNT	n20	5745	Ant	12.1	0.12	11.99	13.00
NVNT	n20	5785	Ant	11.25	0.12	11.17	12.00
NVNT	n20	5825	Ant	11.64	0.12	11.50	12.00
NVNT	n40	5755	Ant	10.64	0.24	10.58	11.00
NVNT	n40	5795	Ant	9.35	0.24	9.42	10.00

Note:

a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.

b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

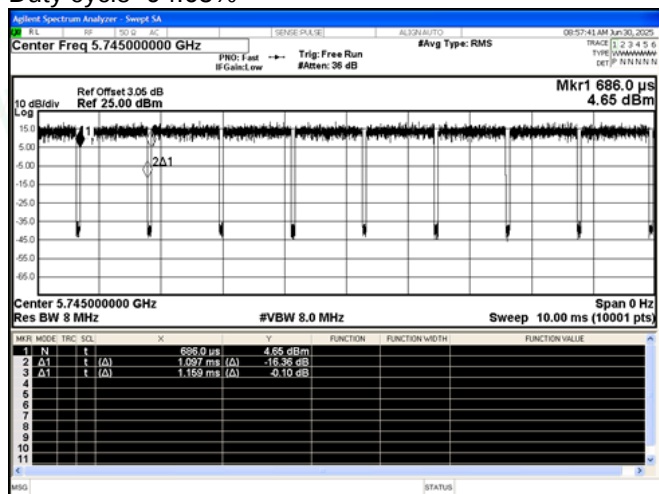
1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 5.8G (802.11a):

Duty cycle=94.65%



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**7.1.20. Conducted Power Measurement Results(Bluetooth)**

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Tune Up (dBm)
NVNT	1-DH5	2402	Ant	-1.96	-1.00
NVNT	1-DH5	2441	Ant	-1.48	-1.00
NVNT	1-DH5	2480	Ant	-1.83	-1.00
NVNT	2-DH5	2402	Ant	-1.71	-1.00
NVNT	2-DH5	2441	Ant	-1.41	-1.00
NVNT	2-DH5	2480	Ant	-1.96	-1.00
NVNT	3-DH5	2402	Ant	-1.32	-1.00
NVNT	3-DH5	2441	Ant	-1.1	-1.00
NVNT	3-DH5	2480	Ant	-1.75	-1.00

BLE

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Tune Up (dBm)
NVNT	BLE 1M	2402	Ant	-1.92	-1.00
NVNT	BLE 1M	2440	Ant	0.75	1.00
NVNT	BLE 1M	2480	Ant	-0.16	0.00





7.2. Stand-alone SAR test evaluation

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

Freq. Band	Frequency (GHz)	Position	Average Power		Test Separation (mm)	Calculate Value	Exclusion Threshold	Exclusion (Y/N)
			dBm	mW				
Bluetooth	2.48	Head	1.00	1.259	5	0.397	3	Y
		Body-worn	1.00	1.259	5	0.397	3	Y

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

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

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





7.3. SAR Measurement Results

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} * 10^{(P_{\text{target}} - P_{\text{measured}})/10}$$

$$\text{Scaling factor} = 10^{(P_{\text{target}} - P_{\text{measured}})/10}$$

$$\text{Reported SAR} = \text{Measured SAR} * \text{Scaling factor}$$

Where

P_{target} is the power of manufacturing upper limit;

P_{measured} is the measured power;

Measured SAR is measured SAR at measured power which including power drift)

Reported SAR which including Power Drift and Scaling factor



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7.3.1. SAR Results[GSM 850]

SAR Values [GSM850]								
Ch/ Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
							Measured	Reported
measured / reported SAR numbers – Head								
190/836.6	GSM	Left Cheek	32.72	33.00	-0.14	1.067	0.183	0.195
190/836.6	GSM	Left Tilt	32.72	33.00	0.04	1.067	0.143	0.153
190/836.6	GSM	Right Cheek	32.72	33.00	-0.09	1.067	0.186	0.198
190/836.6	GSM	Right Tilt	32.72	33.00	-0.03	1.067	0.119	0.127
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)								
128/824.2	GPRS 3TS	Front side	29.50	30.00	-0.16	1.122	0.203	0.228
128/824.2	GPRS 3TS	Rear side	29.50	30.00	0.07	1.122	0.315	0.353
128/824.2	GPRS 3TS	Left side	29.50	30.00	-0.05	1.122	0.074	0.083
128/824.2	GPRS 3TS	Right side	29.50	30.00	0.14	1.122	0.143	0.160
128/824.2	GPRS 3TS	Bottom side	29.50	30.00	-0.19	1.122	0.247	0.277
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)								
128/824.2	GPRS 3TS	Front side	29.50	30.00	0.18	1.122	0.188	0.211
128/824.2	GPRS 3TS	Rear side	29.50	30.00	-0.18	1.122	0.305	0.342
128/824.2	GPRS 3TS	Left side	29.50	30.00	0.03	1.122	0.064	0.072
128/824.2	GPRS 3TS	Right side	29.50	30.00	-0.17	1.122	0.133	0.149
128/824.2	GPRS 3TS	Bottom side	29.50	30.00	-0.01	1.122	0.216	0.242
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)								
128/824.2	GPRS 3TS	Front side	29.50	30.00	0.05	1.230	0.311	0.400
128/824.2	GPRS 3TS	Rear side	29.50	30.00	-0.11	1.230	0.482	0.619
128/824.2	GPRS 3TS	Left side	29.50	30.00	0.07	1.230	0.113	0.145
128/824.2	GPRS 3TS	Right side	29.50	30.00	-0.10	1.230	0.219	0.281
128/824.2	GPRS 3TS	Bottom side	29.50	30.00	0.09	1.230	0.378	0.486
measured / reported SAR numbers - Body-worn cover opened (distance 5mm)								
128/824.2	GPRS 3TS	Front side	29.50	30.00	-0.06	1.122	0.288	0.323
128/824.2	GPRS 3TS	Rear side	29.50	30.00	0.05	1.122	0.467	0.524
128/824.2	GPRS 3TS	Left side	29.50	30.00	-0.08	1.122	0.098	0.110
128/824.2	GPRS 3TS	Right side	29.50	30.00	-0.13	1.122	0.204	0.229
128/824.2	GPRS 3TS	Bottom side	29.50	30.00	0.06	1.122	0.331	0.371

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.3.2. SAR Results[PCS 1900]

SAR Values [GSM1900]								
Ch/ Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
							Measured	Reported
measured / reported SAR numbers – Head								
512/1850.2	GSM	Left Cheek	29.70	30.00	0.15	1.072	0.071	0.076
512/1850.2	GSM	Left Tilt	29.70	30.00	-0.05	1.072	0.041	0.044
512/1850.2	GSM	Right Cheek	29.70	30.00	0.03	1.072	0.068	0.073
512/1850.2	GSM	Right Tilt	29.70	30.00	-0.05	1.072	0.039	0.042
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)								
810/1909.8	GPRS 3TS	Front side	26.48	27.00	-0.15	1.127	0.120	0.135
810/1909.8	GPRS 3TS	Rear side	26.48	27.00	0.19	1.127	0.166	0.187
810/1909.8	GPRS 3TS	Left side	26.48	27.00	0.19	1.127	0.035	0.039
810/1909.8	GPRS 3TS	Right side	26.48	27.00	-0.11	1.127	0.093	0.105
810/1909.8	GPRS 3TS	Bottom side	26.48	27.00	0.19	1.127	0.122	0.138
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)								
810/1909.8	GPRS 3TS	Front side	26.48	27.00	-0.04	1.127	0.115	0.130
810/1909.8	GPRS 3TS	Rear side	26.48	27.00	-0.05	1.127	0.133	0.150
810/1909.8	GPRS 3TS	Left side	26.48	27.00	0.07	1.127	0.028	0.031
810/1909.8	GPRS 3TS	Right side	26.48	27.00	0.13	1.127	0.090	0.101
810/1909.8	GPRS 3TS	Bottom side	26.48	27.00	-0.10	1.127	0.123	0.139
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)								
810/1909.8	GPRS 3TS	Front side	26.48	27.00	0.10	1.127	0.187	0.211
810/1909.8	GPRS 3TS	Rear side	26.48	27.00	0.04	1.127	0.259	0.292
810/1909.8	GPRS 3TS	Left side	26.48	27.00	0.08	1.127	0.055	0.062
810/1909.8	GPRS 3TS	Right side	26.48	27.00	0.16	1.127	0.145	0.163
810/1909.8	GPRS 3TS	Bottom side	26.48	27.00	0.01	1.127	0.190	0.214
measured / reported SAR numbers - Body-worn cover opened (distance 5mm)								
810/1909.8	GPRS 3TS	Front side	26.48	27.00	-0.13	1.127	0.179	0.202
810/1909.8	GPRS 3TS	Rear side	26.48	27.00	-0.10	1.127	0.208	0.234
810/1909.8	GPRS 3TS	Left side	26.48	27.00	-0.06	1.127	0.044	0.049
810/1909.8	GPRS 3TS	Right side	26.48	27.00	0.15	1.127	0.140	0.158
810/1909.8	GPRS 3TS	Bottom side	26.48	27.00	-0.05	1.127	0.192	0.216

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.3.3. SAR Results [WCDMA Band II]

SAR Values [WCDMA Band II]								
Ch/ Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
							Measured	Reported
measured / reported SAR numbers – Head								
9538/1907.6	RMC	Left Cheek	23.56	24.00	0.10	1.107	0.079	0.087
9538/1907.6	RMC	Left Tilt	23.56	24.00	-0.05	1.107	0.061	0.068
9538/1907.6	RMC	Right Cheek	23.56	24.00	-0.16	1.107	0.075	0.083
9538/1907.6	RMC	Right Tilt	23.56	24.00	0.05	1.107	0.062	0.069
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)								
9538/1907.6	RMC	Front side	23.56	24.00	-0.06	1.107	0.121	0.134
9538/1907.6	RMC	Rear side	23.56	24.00	-0.19	1.107	0.165	0.183
9538/1907.6	RMC	Left side	23.56	24.00	0.07	1.107	0.058	0.065
9538/1907.6	RMC	Right side	23.56	24.00	-0.03	1.107	0.084	0.093
9538/1907.6	RMC	Bottom side	23.56	24.00	-0.14	1.107	0.107	0.118
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)								
9538/1907.6	RMC	Front side	23.56	24.00	-0.07	1.107	0.100	0.111
9538/1907.6	RMC	Rear side	23.56	24.00	0.16	1.107	0.155	0.172
9538/1907.6	RMC	Left side	23.56	24.00	-0.03	1.107	0.051	0.057
9538/1907.6	RMC	Right side	23.56	24.00	0.00	1.107	0.072	0.079
9538/1907.6	RMC	Bottom side	23.56	24.00	-0.13	1.107	0.100	0.111
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)								
9538/1907.6	RMC	Front side	23.56	24.00	0.02	1.107	0.186	0.206
9538/1907.6	RMC	Rear side	23.56	24.00	0.09	1.107	0.254	0.281
9538/1907.6	RMC	Left side	23.56	24.00	-0.07	1.107	0.090	0.099
9538/1907.6	RMC	Right side	23.56	24.00	0.07	1.107	0.129	0.143
9538/1907.6	RMC	Bottom side	23.56	24.00	-0.12	1.107	0.165	0.183
measured / reported SAR numbers - Body-worn cover opened (distance 5mm)								
9538/1907.6	RMC	Front side	23.56	24.00	-0.19	1.107	0.154	0.170
9538/1907.6	RMC	Rear side	23.56	24.00	-0.15	1.107	0.239	0.264
9538/1907.6	RMC	Left side	23.56	24.00	0.11	1.107	0.079	0.088
9538/1907.6	RMC	Right side	23.56	24.00	-0.13	1.107	0.111	0.123
9538/1907.6	RMC	Bottom side	23.56	24.00	-0.07	1.107	0.154	0.170

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
3. RMC* - RMC 12.2kbps mode;
- 4) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.3.4. SAR Results [WCDMA Band IV]

SAR Values [WCDMA Band IV]								
Ch/ Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
							Measured	Reported
measured / reported SAR numbers – Head								
1312/1712.4	RMC	Left Cheek	23.56	24.00	0.03	1.107	0.110	0.122
1312/1712.4	RMC	Left Tilt	23.56	24.00	-0.02	1.107	0.075	0.083
1312/1712.4	RMC	Right Cheek	23.56	24.00	-0.03	1.107	0.101	0.112
1312/1712.4	RMC	Right Tilt	23.56	24.00	-0.01	1.107	0.066	0.073
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)								
1312/1712.4	RMC	Front side	23.56	24.00	-0.12	1.107	0.130	0.144
1312/1712.4	RMC	Rear side	23.56	24.00	0.19	1.107	0.181	0.200
1312/1712.4	RMC	Left side	23.56	24.00	-0.15	1.107	0.078	0.086
1312/1712.4	RMC	Right side	23.56	24.00	0.01	1.107	0.090	0.100
1312/1712.4	RMC	Bottom side	23.56	24.00	-0.07	1.107	0.115	0.127
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)								
1312/1712.4	RMC	Front side	23.56	24.00	-0.05	1.107	0.099	0.109
1312/1712.4	RMC	Rear side	23.56	24.00	-0.05	1.107	0.155	0.172
1312/1712.4	RMC	Left side	23.56	24.00	-0.19	1.107	0.074	0.082
1312/1712.4	RMC	Right side	23.56	24.00	-0.15	1.107	0.066	0.073
1312/1712.4	RMC	Bottom side	23.56	24.00	-0.02	1.107	0.097	0.107
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)								
1312/1712.4	RMC	Front side	23.56	24.00	0.18	1.107	0.201	0.222
1312/1712.4	RMC	Rear side	23.56	24.00	0.05	1.107	0.280	0.310
1312/1712.4	RMC	Left side	23.56	24.00	-0.12	1.107	0.120	0.133
1312/1712.4	RMC	Right side	23.56	24.00	-0.12	1.107	0.139	0.154
1312/1712.4	RMC	Bottom side	23.56	24.00	0.14	1.107	0.178	0.197
measured / reported SAR numbers - Body-worn cover opened (distance 5mm)								
1312/1712.4	RMC	Front side	23.56	24.00	-0.19	1.107	0.152	0.168
1312/1712.4	RMC	Rear side	23.56	24.00	-0.14	1.107	0.239	0.264
1312/1712.4	RMC	Left side	23.56	24.00	0.08	1.107	0.114	0.126
1312/1712.4	RMC	Right side	23.56	24.00	0.08	1.107	0.102	0.113
1312/1712.4	RMC	Bottom side	23.56	24.00	-0.04	1.107	0.149	0.165

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) RMC* - RMC 12.2kbps mode;
- 4) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.3.5. SAR Results [WCDMA Band V]

SAR Values [WCDMA Band V]								
Ch/ Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
							Measured	Reported
measured / reported SAR numbers – Head								
4182/836.4	RMC	Left Cheek	23.48	24.00	0.12	1.127	0.105	0.118
4182/836.4	RMC	Left Tilt	23.48	24.00	-0.08	1.127	0.073	0.082
4182/836.4	RMC	Right Cheek	23.48	24.00	0.06	1.127	0.097	0.109
4182/836.4	RMC	Right Tilt	23.48	24.00	0.15	1.127	0.066	0.074
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)								
4182/836.4	RMC	Front side	23.48	24.00	0.14	1.127	0.136	0.153
4182/836.4	RMC	Rear side	23.48	24.00	-0.17	1.127	0.162	0.183
4182/836.4	RMC	Left side	23.48	24.00	-0.02	1.127	0.076	0.085
4182/836.4	RMC	Right side	23.48	24.00	-0.18	1.127	0.086	0.097
4182/836.4	RMC	Bottom side	23.48	24.00	-0.14	1.127	0.114	0.129
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)								
4182/836.4	RMC	Front side	23.48	24.00	0.08	1.127	0.125	0.141
4182/836.4	RMC	Rear side	23.48	24.00	0.09	1.127	0.152	0.171
4182/836.4	RMC	Left side	23.48	24.00	0.04	1.127	0.077	0.086
4182/836.4	RMC	Right side	23.48	24.00	-0.08	1.127	0.065	0.073
4182/836.4	RMC	Bottom side	23.48	24.00	-0.15	1.127	0.093	0.105
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)								
4182/836.4	RMC	Front side	23.48	24.00	-0.18	1.127	0.210	0.237
4182/836.4	RMC	Rear side	23.48	24.00	0.01	1.127	0.251	0.283
4182/836.4	RMC	Left side	23.48	24.00	0.00	1.127	0.117	0.132
4182/836.4	RMC	Right side	23.48	24.00	0.02	1.127	0.133	0.150
4182/836.4	RMC	Bottom side	23.48	24.00	0.08	1.127	0.176	0.198
measured / reported SAR numbers - Body-worn cover opened (distance 5mm)								
4182/836.4	RMC	Front side	23.48	24.00	0.18	1.127	0.193	0.218
4182/836.4	RMC	Rear side	23.48	24.00	-0.17	1.127	0.235	0.265
4182/836.4	RMC	Left side	23.48	24.00	-0.19	1.127	0.118	0.133
4182/836.4	RMC	Right side	23.48	24.00	0.06	1.127	0.101	0.114
4182/836.4	RMC	Bottom side	23.48	24.00	-0.08	1.127	0.143	0.161

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) RMC* - RMC 12.2kbps mode;
- 4) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.3.6. SAR Results [LTE Band 2]

SAR Values [LTE Band 2]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head<1RB>									
19100/1900	20M	QPSK 1RB_99	Left Cheek	22.23	23.00	-0.16	1.194	0.145	0.173
19100/1900	20M	QPSK 1RB_99	Left Tilt	22.23	23.00	-0.18	1.194	0.103	0.123
19100/1900	20M	QPSK 1RB_99	Right Cheek	22.23	23.00	-0.05	1.194	0.135	0.161
19100/1900	20M	QPSK 1RB_99	Right Tilt	22.23	23.00	-0.09	1.194	0.092	0.11
measured / reported SAR numbers – Head<50%RB>									
19100/1900	20M	QPSK 50RB_50	Left Cheek	21.26	22.00	-0.13	1.186	0.118	0.14
19100/1900	20M	QPSK 50RB_50	Left Tilt	21.26	22.00	0.19	1.186	0.084	0.1
19100/1900	20M	QPSK 50RB_50	Right Cheek	21.26	22.00	0.15	1.186	0.11	0.13
19100/1900	20M	QPSK 50RB_50	Right Tilt	21.26	22.00	-0.04	1.186	0.075	0.089
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
19100/1900	20M	QPSK 1RB_99	Front side	22.23	23.00	-0.18	1.194	0.279	0.333
19100/1900	20M	QPSK 1RB_99	Rear side	22.23	23.00	-0.18	1.194	0.460	0.549
19100/1900	20M	QPSK 1RB_99	Left side	22.23	23.00	0.15	1.194	0.151	0.180
19100/1900	20M	QPSK 1RB_99	Right side	22.23	23.00	-0.17	1.194	0.115	0.137
19100/1900	20M	QPSK 1RB_99	Bottom side	22.23	23.00	-0.17	1.194	0.296	0.353
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<50%RB>									
19100/1900	20M	QPSK 50RB_50	Front side	21.26	22.00	0.17	1.186	0.222	0.263
19100/1900	20M	QPSK 50RB_50	Rear side	21.26	22.00	-0.13	1.186	0.365	0.433
19100/1900	20M	QPSK 50RB_50	Left side	21.26	22.00	0.16	1.186	0.120	0.142
19100/1900	20M	QPSK 50RB_50	Right side	21.26	22.00	0.08	1.186	0.091	0.108
19100/1900	20M	QPSK 50RB_50	Bottom side	21.26	22.00	0.19	1.186	0.235	0.279
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
19100/1900	20M	QPSK 1RB_99	Front side	22.23	23.00	0.11	1.194	0.272	0.325
19100/1900	20M	QPSK 1RB_99	Rear side	22.23	23.00	0.13	1.194	0.449	0.536
19100/1900	20M	QPSK 1RB_99	Left side	22.23	23.00	0.11	1.194	0.147	0.176
19100/1900	20M	QPSK 1RB_99	Right side	22.23	23.00	-0.03	1.194	0.112	0.134
19100/1900	20M	QPSK 1RB_99	Bottom side	22.23	23.00	-0.10	1.194	0.289	0.345
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<50%RB>									
19100/1900	20M	QPSK 50RB_50	Front side	21.26	22.00	-0.08	1.186	0.191	0.226
19100/1900	20M	QPSK 50RB_50	Rear side	21.26	22.00	0.02	1.186	0.316	0.375
19100/1900	20M	QPSK 50RB_50	Left side	21.26	22.00	-0.11	1.186	0.103	0.122
19100/1900	20M	QPSK 50RB_50	Right side	21.26	22.00	-0.19	1.186	0.079	0.093
19100/1900	20M	QPSK 50RB_50	Bottom side	21.26	22.00	0.01	1.186	0.203	0.241
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
19100/1900	20M	QPSK 1RB_99	Front side	22.23	23.00	-0.11	1.194	0.380	0.454
19100/1900	20M	QPSK 1RB_99	Rear side	22.23	23.00	0.16	1.194	0.627	0.749
19100/1900	20M	QPSK 1RB_99	Left side	22.23	23.00	0.11	1.194	0.206	0.246
19100/1900	20M	QPSK 1RB_99	Right side	22.23	23.00	0.14	1.194	0.157	0.187
19100/1900	20M	QPSK 1RB_99	Bottom side	22.23	23.00	-0.16	1.194	0.403	0.481
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<50%RB>									
19100/1900	20M	QPSK 50RB_50	Front side	21.26	22.00	0.02	1.186	0.267	0.317
19100/1900	20M	QPSK 50RB_50	Rear side	21.26	22.00	0.19	1.186	0.441	0.523
19100/1900	20M	QPSK 50RB_50	Left side	21.26	22.00	0.02	1.186	0.145	0.172
19100/1900	20M	QPSK 50RB_50	Right side	21.26	22.00	-0.17	1.186	0.110	0.130



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19100/1900	20M	QPSK 50RB_50	Bottom side	21.26	22.00	-0.03	1.186	0.283	0.336
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
19100/1900	20M	QPSK 1RB_99	Front side	22.23	23.00	0.05	1.194	0.371	0.443
19100/1900	20M	QPSK 1RB_99	Rear side	22.23	23.00	0.07	1.194	0.611	0.730
19100/1900	20M	QPSK 1RB_99	Left side	22.23	23.00	-0.08	1.194	0.201	0.240
19100/1900	20M	QPSK 1RB_99	Right side	22.23	23.00	-0.06	1.194	0.153	0.183
19100/1900	20M	QPSK 1RB_99	Bottom side	22.23	23.00	-0.15	1.194	0.393	0.469
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<50%RB>									
19100/1900	20M	QPSK 50RB_50	Front side	21.26	22.00	0.13	1.186	0.261	0.309
19100/1900	20M	QPSK 50RB_50	Rear side	21.26	22.00	0.05	1.186	0.430	0.510
19100/1900	20M	QPSK 50RB_50	Left side	21.26	22.00	-0.12	1.186	0.141	0.167
19100/1900	20M	QPSK 50RB_50	Right side	21.26	22.00	-0.03	1.186	0.108	0.128
19100/1900	20M	QPSK 50RB_50	Bottom side	21.26	22.00	0.02	1.186	0.276	0.327

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.3.7. SAR Results [LTE Band 5]

SAR Values [LTE Band 5]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head <1RB>									
20600/844	10M	QPSK 1RB_24	Left Cheek	23.65	24.00	-0.18	1.084	0.102	0.111
20600/844	10M	QPSK 1RB_24	Left Tilt	23.65	24.00	-0.01	1.084	0.065	0.070
20600/844	10M	QPSK 1RB_24	Right Cheek	23.65	24.00	-0.06	1.084	0.095	0.103
20600/844	10M	QPSK 1RB_24	Right Tilt	23.65	24.00	0.08	1.084	0.059	0.064
measured / reported SAR numbers – Head <50%RB>									
20600/844	10M	QPSK 25RB_12	Left Cheek	22.80	23.00	-0.03	1.047	0.074	0.077
20600/844	10M	QPSK 25RB_12	Left Tilt	22.80	23.00	0.09	1.047	0.047	0.049
20600/844	10M	QPSK 25RB_12	Right Cheek	22.80	23.00	0.01	1.047	0.069	0.072
20600/844	10M	QPSK 25RB_12	Right Tilt	22.80	23.00	0.10	1.047	0.043	0.045
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
20600/844	10M	QPSK 1RB_24	Front side	23.65	24.00	0.10	1.084	0.204	0.221
20600/844	10M	QPSK 1RB_24	Rear side	23.65	24.00	-0.13	1.084	0.246	0.267
20600/844	10M	QPSK 1RB_24	Left side	23.65	24.00	0.07	1.084	0.067	0.073
20600/844	10M	QPSK 1RB_24	Right side	23.65	24.00	-0.04	1.084	0.068	0.073
20600/844	10M	QPSK 1RB_24	Bottom side	23.65	24.00	-0.13	1.084	0.219	0.237
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<50%RB>									
20600/844	10M	QPSK 25RB_12	Front side	22.80	23.00	0.05	1.047	0.147	0.154
20600/844	10M	QPSK 25RB_12	Rear side	22.80	23.00	-0.12	1.047	0.177	0.185
20600/844	10M	QPSK 25RB_12	Left side	22.80	23.00	-0.12	1.047	0.048	0.051
20600/844	10M	QPSK 25RB_12	Right side	22.80	23.00	0.12	1.047	0.049	0.051
20600/844	10M	QPSK 25RB_12	Bottom side	22.80	23.00	-0.02	1.047	0.158	0.165
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
20600/844	10M	QPSK 1RB_24	Front side	23.65	24.00	-0.07	1.084	0.166	0.180
20600/844	10M	QPSK 1RB_24	Rear side	23.65	24.00	0.08	1.084	0.237	0.257
20600/844	10M	QPSK 1RB_24	Left side	23.65	24.00	0.03	1.084	0.072	0.078
20600/844	10M	QPSK 1RB_24	Right side	23.65	24.00	0.05	1.084	0.060	0.065
20600/844	10M	QPSK 1RB_24	Bottom side	23.65	24.00	-0.03	1.084	0.193	0.209
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<50%RB>									
20600/844	10M	QPSK 25RB_12	Front side	22.80	23.00	-0.19	1.047	0.120	0.126
20600/844	10M	QPSK 25RB_12	Rear side	22.80	23.00	-0.14	1.047	0.171	0.179
20600/844	10M	QPSK 25RB_12	Left side	22.80	23.00	-0.06	1.047	0.052	0.054
20600/844	10M	QPSK 25RB_12	Right side	22.80	23.00	0.19	1.047	0.043	0.045
20600/844	10M	QPSK 25RB_12	Bottom side	22.80	23.00	-0.06	1.047	0.139	0.146
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
20600/844	10M	QPSK 1RB_24	Front side	23.65	24.00	0.11	1.084	0.316	0.343
20600/844	10M	QPSK 1RB_24	Rear side	23.65	24.00	0.03	1.084	0.381	0.413
20600/844	10M	QPSK 1RB_24	Left side	23.65	24.00	0.16	1.084	0.104	0.113
20600/844	10M	QPSK 1RB_24	Right side	23.65	24.00	-0.15	1.084	0.105	0.114
20600/844	10M	QPSK 1RB_24	Bottom side	23.65	24.00	-0.06	1.084	0.339	0.367
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<50%RB>									
20600/844	10M	QPSK 25RB_12	Front side	22.80	23.00	-0.11	1.047	0.228	0.239
20600/844	10M	QPSK 25RB_12	Rear side	22.80	23.00	-0.19	1.047	0.275	0.288
20600/844	10M	QPSK 25RB_12	Left side	22.80	23.00	-0.05	1.047	0.075	0.079
20600/844	10M	QPSK 25RB_12	Right side	22.80	23.00	0.15	1.047	0.076	0.079





20600/844	10M	QPSK 25RB_12	Bottom side	22.80	23.00	0.16	1.047	0.245	0.257
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
20600/844	10M	QPSK 1RB_24	Front side	23.65	24.00	0.06	1.084	0.257	0.279
20600/844	10M	QPSK 1RB_24	Rear side	23.65	24.00	0.05	1.084	0.367	0.398
20600/844	10M	QPSK 1RB_24	Left side	23.65	24.00	-0.05	1.084	0.111	0.120
20600/844	10M	QPSK 1RB_24	Right side	23.65	24.00	0.13	1.084	0.093	0.101
20600/844	10M	QPSK 1RB_24	Bottom side	23.65	24.00	0.06	1.084	0.299	0.324
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<50%RB>									
20600/844	10M	QPSK 25RB_12	Front side	22.80	23.00	-0.14	1.047	0.185	0.194
20600/844	10M	QPSK 25RB_12	Rear side	22.80	23.00	0.09	1.047	0.265	0.277
20600/844	10M	QPSK 25RB_12	Left side	22.80	23.00	0.07	1.047	0.080	0.084
20600/844	10M	QPSK 25RB_12	Right side	22.80	23.00	-0.11	1.047	0.067	0.070
20600/844	10M	QPSK 25RB_12	Bottom side	22.80	23.00	0.03	1.047	0.216	0.226

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.3.8. SAR Results [LTE Band 7]

SAR Values [LTE Band 7]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head<1RB>									
21100/2535	20M	QPSK 1RB_49	Left Cheek	22.43	23.00	-0.18	1.140	0.069	0.079
21100/2535	20M	QPSK 1RB_49	Left Tilt	22.43	23.00	0.07	1.140	0.027	0.031
21100/2535	20M	QPSK 1RB_49	Right Cheek	22.43	23.00	-0.19	1.140	0.081	0.092
21100/2535	20M	QPSK 1RB_49	Right Tilt	22.43	23.00	-0.14	1.140	0.030	0.034
measured / reported SAR numbers – Head <50%RB>									
21100/2535	20M	QPSK 50RB_0	Left Cheek	21.58	22.00	0.05	1.102	0.048	0.052
21100/2535	20M	QPSK 50RB_0	Left Tilt	21.58	22.00	-0.16	1.102	0.019	0.020
21100/2535	20M	QPSK 50RB_0	Right Cheek	21.58	22.00	0.10	1.102	0.056	0.061
21100/2535	20M	QPSK 50RB_0	Right Tilt	21.58	22.00	-0.18	1.102	0.021	0.023
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
21100/2535	20M	QPSK 1RB_49	Front side	22.43	23.00	-0.11	1.140	0.466	0.531
21100/2535	20M	QPSK 1RB_49	Rear side	22.43	23.00	-0.13	1.140	0.542	0.618
21100/2535	20M	QPSK 1RB_49	Left side	22.43	23.00	-0.05	1.140	0.173	0.197
21100/2535	20M	QPSK 1RB_49	Right side	22.43	23.00	-0.17	1.140	0.141	0.161
21100/2535	20M	QPSK 1RB_49	Bottom side	22.43	23.00	0.17	1.140	0.434	0.495
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<50%RB>									
21100/2535	20M	QPSK 50RB_0	Front side	21.58	22.00	0.01	1.102	0.321	0.354
21100/2535	20M	QPSK 50RB_0	Rear side	21.58	22.00	0.02	1.102	0.374	0.412
21100/2535	20M	QPSK 50RB_0	Left side	21.58	22.00	-0.09	1.102	0.119	0.131
21100/2535	20M	QPSK 50RB_0	Right side	21.58	22.00	-0.02	1.102	0.097	0.107
21100/2535	20M	QPSK 50RB_0	Bottom side	21.58	22.00	-0.07	1.102	0.299	0.329
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
21100/2535	20M	QPSK 1RB_49	Front side	22.43	23.00	-0.17	1.140	0.401	0.457
21100/2535	20M	QPSK 1RB_49	Rear side	22.43	23.00	0.07	1.140	0.534	0.609
21100/2535	20M	QPSK 1RB_49	Left side	22.43	23.00	-0.04	1.140	0.170	0.194
21100/2535	20M	QPSK 1RB_49	Right side	22.43	23.00	-0.19	1.140	0.129	0.147
21100/2535	20M	QPSK 1RB_49	Bottom side	22.43	23.00	-0.08	1.140	0.412	0.470
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<50%RB>									
21100/2535	20M	QPSK 50RB_0	Front side	21.58	22.00	0.17	1.102	0.321	0.354
21100/2535	20M	QPSK 50RB_0	Rear side	21.58	22.00	0.03	1.102	0.374	0.412
21100/2535	20M	QPSK 50RB_0	Left side	21.58	22.00	-0.18	1.102	0.119	0.131
21100/2535	20M	QPSK 50RB_0	Right side	21.58	22.00	-0.01	1.102	0.097	0.107
21100/2535	20M	QPSK 50RB_0	Bottom side	21.58	22.00	-0.04	1.102	0.299	0.329
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
21100/2535	20M	QPSK 1RB_49	Front side	22.43	23.00	-0.16	1.140	0.548	0.625
21100/2535	20M	QPSK 1RB_49	Rear side	22.43	23.00	-0.11	1.140	0.637	0.726
21100/2535	20M	QPSK 1RB_49	Left side	22.43	23.00	0.12	1.140	0.203	0.231
21100/2535	20M	QPSK 1RB_49	Right side	22.43	23.00	-0.02	1.140	0.166	0.189
21100/2535	20M	QPSK 1RB_49	Bottom side	22.43	23.00	0.05	1.140	0.510	0.582
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<50%RB>									
21100/2535	20M	QPSK 50RB_0	Front side	21.58	22.00	0.09	1.102	0.378	0.416
21100/2535	20M	QPSK 50RB_0	Rear side	21.58	22.00	-0.03	1.102	0.439	0.484
21100/2535	20M	QPSK 50RB_0	Left side	21.58	22.00	-0.16	1.102	0.140	0.154
21100/2535	20M	QPSK 50RB_0	Right side	21.58	22.00	0.13	1.102	0.114	0.126





21100/2535	20M	QPSK 50RB_0	Bottom side	21.58	22.00	0.01	1.102	0.352	0.388
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
21100/2535	20M	QPSK 1RB_49	Front side	22.43	23.00	0.08	1.140	0.471	0.537
21100/2535	20M	QPSK 1RB_49	Rear side	22.43	23.00	0.15	1.140	0.628	0.716
21100/2535	20M	QPSK 1RB_49	Left side	22.43	23.00	-0.07	1.140	0.200	0.228
21100/2535	20M	QPSK 1RB_49	Right side	22.43	23.00	0.02	1.140	0.152	0.173
21100/2535	20M	QPSK 1RB_49	Bottom side	22.43	23.00	0.09	1.140	0.484	0.552
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<50%RB>									
21100/2535	20M	QPSK 50RB_0	Front side	21.58	22.00	-0.17	1.102	0.325	0.358
21100/2535	20M	QPSK 50RB_0	Rear side	21.58	22.00	0.11	1.102	0.433	0.477
21100/2535	20M	QPSK 50RB_0	Left side	21.58	22.00	-0.17	1.102	0.138	0.152
21100/2535	20M	QPSK 50RB_0	Right side	21.58	22.00	-0.05	1.102	0.105	0.116
21100/2535	20M	QPSK 50RB_0	Bottom side	21.58	22.00	0.15	1.102	0.334	0.368

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.3.9. SAR Results [LTE Band 12]

SAR Values [LTE Band 12]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head<1RB>									
23095/707.5	10M	QPSK 1RB_0	Left Cheek	23.64	24.00	-0.03	1.086	0.108	0.117
23095/707.5	10M	QPSK 1RB_0	Left Tilt	23.64	24.00	0.01	1.086	0.042	0.046
23095/707.5	10M	QPSK 1RB_0	Right Cheek	23.64	24.00	-0.08	1.086	0.083	0.090
23095/707.5	10M	QPSK 1RB_0	Right Tilt	23.64	24.00	-0.18	1.086	0.035	0.038
measured / reported SAR numbers – Head<50%RB>									
23060/704	10M	QPSK 25RB_12	Left Cheek	22.65	23.00	0.05	1.084	0.077	0.083
23060/704	10M	QPSK 25RB_12	Left Tilt	22.65	23.00	0.07	1.084	0.030	0.032
23060/704	10M	QPSK 25RB_12	Right Cheek	22.65	23.00	-0.19	1.084	0.059	0.064
23060/704	10M	QPSK 25RB_12	Right Tilt	22.65	23.00	-0.02	1.084	0.025	0.027
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
23095/707.5	10M	QPSK 1RB_0	Front side	23.64	24.00	-0.10	1.086	0.100	0.108
23095/707.5	10M	QPSK 1RB_0	Rear side	23.64	24.00	-0.13	1.086	0.129	0.140
23095/707.5	10M	QPSK 1RB_0	Left side	23.64	24.00	0.15	1.086	0.064	0.069
23095/707.5	10M	QPSK 1RB_0	Right side	23.64	24.00	-0.05	1.086	0.052	0.056
23095/707.5	10M	QPSK 1RB_0	Bottom side	23.64	24.00	0.09	1.086	0.102	0.111
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<50%RB>									
23060/704	10M	QPSK 25RB_12	Front side	22.65	23.00	0.07	1.084	0.071	0.077
23060/704	10M	QPSK 25RB_12	Rear side	22.65	23.00	-0.09	1.084	0.092	0.099
23060/704	10M	QPSK 25RB_12	Left side	22.65	23.00	0.04	1.084	0.045	0.049
23060/704	10M	QPSK 25RB_12	Right side	22.65	23.00	-0.10	1.084	0.037	0.040
23060/704	10M	QPSK 25RB_12	Bottom side	22.65	23.00	0.10	1.084	0.072	0.078
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
23095/707.5	10M	QPSK 1RB_0	Front side	23.64	24.00	-0.07	1.086	0.080	0.087
23095/707.5	10M	QPSK 1RB_0	Rear side	23.64	24.00	0.06	1.086	0.117	0.127
23095/707.5	10M	QPSK 1RB_0	Left side	23.64	24.00	-0.17	1.086	0.048	0.052
23095/707.5	10M	QPSK 1RB_0	Right side	23.64	24.00	-0.04	1.086	0.048	0.052
23095/707.5	10M	QPSK 1RB_0	Bottom side	23.64	24.00	-0.03	1.086	0.091	0.099
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<50%RB>									
23060/704	10M	QPSK 25RB_12	Front side	22.65	23.00	0.15	1.084	0.053	0.058
23060/704	10M	QPSK 25RB_12	Rear side	22.65	23.00	0.11	1.084	0.073	0.079
23060/704	10M	QPSK 25RB_12	Left side	22.65	23.00	0.02	1.084	0.034	0.037
23060/704	10M	QPSK 25RB_12	Right side	22.65	23.00	0.05	1.084	0.026	0.029
23060/704	10M	QPSK 25RB_12	Bottom side	22.65	23.00	-0.05	1.084	0.058	0.063
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
23095/707.5	10M	QPSK 1RB_0	Front side	23.64	24.00	0.07	1.086	0.148	0.161
23095/707.5	10M	QPSK 1RB_0	Rear side	23.64	24.00	-0.05	1.086	0.191	0.208
23095/707.5	10M	QPSK 1RB_0	Left side	23.64	24.00	-0.07	1.086	0.095	0.103
23095/707.5	10M	QPSK 1RB_0	Right side	23.64	24.00	0.16	1.086	0.077	0.084
23095/707.5	10M	QPSK 1RB_0	Bottom side	23.64	24.00	0.12	1.086	0.151	0.164
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<50%RB>									
23060/704	10M	QPSK 25RB_12	Front side	22.65	23.00	-0.05	1.084	0.105	0.114
23060/704	10M	QPSK 25RB_12	Rear side	22.65	23.00	0.09	1.084	0.136	0.147
23060/704	10M	QPSK 25RB_12	Left side	22.65	23.00	-0.02	1.084	0.068	0.073
23060/704	10M	QPSK 25RB_12	Right side	22.65	23.00	0.08	1.084	0.055	0.059





23060/704	10M	QPSK 25RB_12	Bottom side	22.65	23.00	0.09	1.084	0.107	0.116
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
23095/707.5	10M	QPSK 1RB_0	Front side	23.64	24.00	-0.04	1.086	0.118	0.128
23095/707.5	10M	QPSK 1RB_0	Rear side	23.64	24.00	0.03	1.086	0.173	0.188
23095/707.5	10M	QPSK 1RB_0	Left side	23.64	24.00	-0.12	1.086	0.071	0.077
23095/707.5	10M	QPSK 1RB_0	Right side	23.64	24.00	-0.09	1.086	0.071	0.077
23095/707.5	10M	QPSK 1RB_0	Bottom side	23.64	24.00	-0.18	1.086	0.135	0.147
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<50%RB>									
23060/704	10M	QPSK 25RB_12	Front side	22.65	23.00	-0.05	1.084	0.084	0.091
23060/704	10M	QPSK 25RB_12	Rear side	22.65	23.00	-0.08	1.084	0.123	0.133
23060/704	10M	QPSK 25RB_12	Left side	22.65	23.00	-0.01	1.084	0.050	0.055
23060/704	10M	QPSK 25RB_12	Right side	22.65	23.00	-0.02	1.084	0.050	0.055
23060/704	10M	QPSK 25RB_12	Bottom side	22.65	23.00	0.07	1.084	0.096	0.104

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode



**7.3.10. SAR Results [LTE Band 13]**

SAR Values [LTE Band 13]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head<1RB>									
23230/782	10M	QPSK 1RB_0	Left Cheek	23.60	24.00	0.04	1.096	0.102	0.112
23230/782	10M	QPSK 1RB_0	Left Tilt	23.60	24.00	-0.12	1.096	0.085	0.094
23230/782	10M	QPSK 1RB_0	Right Cheek	23.60	24.00	0.17	1.096	0.090	0.099
23230/782	10M	QPSK 1RB_0	Right Tilt	23.60	24.00	0.18	1.096	0.076	0.083
measured / reported SAR numbers – Head<50%RB>									
23230/782	10M	QPSK 25RB_0	Left Cheek	22.58	23.00	-0.02	1.102	0.075	0.083
23230/782	10M	QPSK 25RB_0	Left Tilt	22.58	23.00	-0.14	1.102	0.063	0.069
23230/782	10M	QPSK 25RB_0	Right Cheek	22.58	23.00	-0.09	1.102	0.066	0.073
23230/782	10M	QPSK 25RB_0	Right Tilt	22.58	23.00	-0.12	1.102	0.056	0.062
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
23230/782	10M	QPSK 1RB_0	Front side	23.60	24.00	0.02	1.096	0.097	0.106
23230/782	10M	QPSK 1RB_0	Rear side	23.60	24.00	-0.15	1.096	0.129	0.141
23230/782	10M	QPSK 1RB_0	Left side	23.60	24.00	-0.17	1.096	0.074	0.081
23230/782	10M	QPSK 1RB_0	Right side	23.60	24.00	-0.08	1.096	0.065	0.071
23230/782	10M	QPSK 1RB_0	Bottom side	23.60	24.00	0.12	1.096	0.098	0.107
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<50%RB>									
23230/782	10M	QPSK 25RB_0	Front side	22.58	23.00	0.17	1.102	0.071	0.079
23230/782	10M	QPSK 25RB_0	Rear side	22.58	23.00	0.16	1.102	0.095	0.105
23230/782	10M	QPSK 25RB_0	Left side	22.58	23.00	-0.19	1.102	0.055	0.060
23230/782	10M	QPSK 25RB_0	Right side	22.58	23.00	-0.18	1.102	0.048	0.053
23230/782	10M	QPSK 25RB_0	Bottom side	22.58	23.00	0.02	1.102	0.072	0.079
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
23230/782	10M	QPSK 1RB_0	Front side	23.60	24.00	-0.08	1.096	0.069	0.076
23230/782	10M	QPSK 1RB_0	Rear side	23.60	24.00	-0.07	1.096	0.101	0.111
23230/782	10M	QPSK 1RB_0	Left side	23.60	24.00	0.01	1.096	0.034	0.037
23230/782	10M	QPSK 1RB_0	Right side	23.60	24.00	0.09	1.096	0.034	0.037
23230/782	10M	QPSK 1RB_0	Bottom side	23.60	24.00	0.19	1.096	0.083	0.091
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<50%RB>									
23230/782	10M	QPSK 25RB_0	Front side	22.58	23.00	0.09	1.102	0.051	0.056
23230/782	10M	QPSK 25RB_0	Rear side	22.58	23.00	-0.14	1.102	0.074	0.082
23230/782	10M	QPSK 25RB_0	Left side	22.58	23.00	-0.03	1.102	0.025	0.028
23230/782	10M	QPSK 25RB_0	Right side	22.58	23.00	-0.17	1.102	0.025	0.028
23230/782	10M	QPSK 25RB_0	Bottom side	22.58	23.00	-0.14	1.102	0.061	0.067
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
23230/782	10M	QPSK 1RB_0	Front side	23.60	24.00	-0.03	1.096	0.142	0.156
23230/782	10M	QPSK 1RB_0	Rear side	23.60	24.00	0.01	1.096	0.189	0.207
23230/782	10M	QPSK 1RB_0	Left side	23.60	24.00	-0.08	1.096	0.108	0.118
23230/782	10M	QPSK 1RB_0	Right side	23.60	24.00	0.17	1.096	0.095	0.104
23230/782	10M	QPSK 1RB_0	Bottom side	23.60	24.00	0.10	1.096	0.144	0.158
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<50%RB>									
23230/782	10M	QPSK 25RB_0	Front side	22.58	23.00	0.19	1.102	0.105	0.116
23230/782	10M	QPSK 25RB_0	Rear side	22.58	23.00	0.02	1.102	0.139	0.153
23230/782	10M	QPSK 25RB_0	Left side	22.58	23.00	-0.19	1.102	0.080	0.088
23230/782	10M	QPSK 25RB_0	Right side	22.58	23.00	0.10	1.102	0.070	0.077



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23230/782	10M	QPSK 25RB_0	Bottom side	22.58	23.00	0.12	1.102	0.106	0.117
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
23230/782	10M	QPSK 1RB_0	Front side	23.60	24.00	0.16	1.096	0.101	0.111
23230/782	10M	QPSK 1RB_0	Rear side	23.60	24.00	-0.16	1.096	0.148	0.162
23230/782	10M	QPSK 1RB_0	Left side	23.60	24.00	-0.18	1.096	0.050	0.055
23230/782	10M	QPSK 1RB_0	Right side	23.60	24.00	-0.14	1.096	0.050	0.055
23230/782	10M	QPSK 1RB_0	Bottom side	23.60	24.00	0.13	1.096	0.122	0.134
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<50%RB>									
23230/782	10M	QPSK 25RB_0	Front side	22.58	23.00	0.01	1.102	0.074	0.082
23230/782	10M	QPSK 25RB_0	Rear side	22.58	23.00	-0.09	1.102	0.109	0.120
23230/782	10M	QPSK 25RB_0	Left side	22.58	23.00	0.17	1.102	0.037	0.041
23230/782	10M	QPSK 25RB_0	Right side	22.58	23.00	-0.13	1.102	0.036	0.040
23230/782	10M	QPSK 25RB_0	Bottom side	22.58	23.00	0.17	1.102	0.090	0.099

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode



**7.3.11. SAR Results [LTE Band 66]**

SAR Values [LTE Band 66]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head<1RB>									
132072/1720	20M	QPSK 1RB_0	Left Cheek	23.31	24.00	-0.01	1.172	0.112	0.131
132072/1720	20M	QPSK 1RB_0	Left Tilt	23.31	24.00	-0.14	1.172	0.087	0.102
132072/1720	20M	QPSK 1RB_0	Right Cheek	23.31	24.00	-0.04	1.172	0.108	0.127
132072/1720	20M	QPSK 1RB_0	Right Tilt	23.31	24.00	0.15	1.172	0.085	0.099
measured / reported SAR numbers – Head <50%RB>									
132322/1745	20M	QPSK 50RB_25	Left Cheek	22.23	23.00	-0.17	1.194	0.079	0.094
132322/1745	20M	QPSK 50RB_25	Left Tilt	22.23	23.00	-0.19	1.194	0.061	0.073
132322/1745	20M	QPSK 50RB_25	Right Cheek	22.23	23.00	-0.10	1.194	0.076	0.091
132322/1745	20M	QPSK 50RB_25	Right Tilt	22.23	23.00	-0.09	1.194	0.060	0.071
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
132072/1720	20M	QPSK 1RB_0	Front side	23.31	24.00	-0.10	1.172	0.295	0.346
132072/1720	20M	QPSK 1RB_0	Rear side	23.31	24.00	0.17	1.172	0.308	0.361
132072/1720	20M	QPSK 1RB_0	Left side	23.31	24.00	0.15	1.172	0.104	0.122
132072/1720	20M	QPSK 1RB_0	Right side	23.31	24.00	-0.08	1.172	0.103	0.121
132072/1720	20M	QPSK 1RB_0	Bottom side	23.31	24.00	0.16	1.172	0.297	0.348
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<50%RB>									
132322/1745	20M	QPSK 50RB_25	Front side	22.23	23.00	0.01	1.194	0.207	0.247
132322/1745	20M	QPSK 50RB_25	Rear side	22.23	23.00	-0.01	1.194	0.216	0.258
132322/1745	20M	QPSK 50RB_25	Left side	22.23	23.00	0.10	1.194	0.073	0.087
132322/1745	20M	QPSK 50RB_25	Right side	22.23	23.00	0.14	1.194	0.072	0.086
132322/1745	20M	QPSK 50RB_25	Bottom side	22.23	23.00	-0.08	1.194	0.208	0.248
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
132072/1720	20M	QPSK 1RB_0	Front side	23.31	24.00	-0.19	1.172	0.215	0.252
132072/1720	20M	QPSK 1RB_0	Rear side	23.31	24.00	-0.13	1.172	0.272	0.319
132072/1720	20M	QPSK 1RB_0	Left side	23.31	24.00	-0.13	1.172	0.075	0.088
132072/1720	20M	QPSK 1RB_0	Right side	23.31	24.00	0.06	1.172	0.067	0.079
132072/1720	20M	QPSK 1RB_0	Bottom side	23.31	24.00	-0.01	1.172	0.226	0.265
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<50%RB>									
132322/1745	20M	QPSK 50RB_25	Front side	22.23	23.00	0.09	1.194	0.151	0.180
132322/1745	20M	QPSK 50RB_25	Rear side	22.23	23.00	-0.02	1.194	0.191	0.228
132322/1745	20M	QPSK 50RB_25	Left side	22.23	23.00	-0.01	1.194	0.053	0.063
132322/1745	20M	QPSK 50RB_25	Right side	22.23	23.00	0.10	1.194	0.047	0.056
132322/1745	20M	QPSK 50RB_25	Bottom side	22.23	23.00	-0.14	1.194	0.159	0.190
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
132072/1720	20M	QPSK 1RB_0	Front side	23.31	24.00	-0.02	1.172	0.435	0.510
132072/1720	20M	QPSK 1RB_0	Rear side	23.31	24.00	0.07	1.172	0.454	0.532
132072/1720	20M	QPSK 1RB_0	Left side	23.31	24.00	-0.12	1.172	0.153	0.179
132072/1720	20M	QPSK 1RB_0	Right side	23.31	24.00	-0.10	1.172	0.152	0.178
132072/1720	20M	QPSK 1RB_0	Bottom side	23.31	24.00	0.09	1.172	0.438	0.513
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<50%RB>									
132322/1745	20M	QPSK 50RB_25	Front side	22.23	23.00	0.15	1.194	0.305	0.364
132322/1745	20M	QPSK 50RB_25	Rear side	22.23	23.00	0.06	1.194	0.319	0.381
132322/1745	20M	QPSK 50RB_25	Left side	22.23	23.00	-0.07	1.194	0.107	0.128
132322/1745	20M	QPSK 50RB_25	Right side	22.23	23.00	0.19	1.194	0.107	0.128





132322/1745	20M	QPSK 50RB_25	Bottom side	22.23	23.00	0.18	1.194	0.307	0.367
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
132072/1720	20M	QPSK 1RB_0	Front side	23.31	24.00	-0.12	1.172	0.317	0.372
132072/1720	20M	QPSK 1RB_0	Rear side	23.31	24.00	-0.06	1.172	0.401	0.470
132072/1720	20M	QPSK 1RB_0	Left side	23.31	24.00	0.16	1.172	0.111	0.130
132072/1720	20M	QPSK 1RB_0	Right side	23.31	24.00	-0.07	1.172	0.099	0.116
132072/1720	20M	QPSK 1RB_0	Bottom side	23.31	24.00	-0.08	1.172	0.333	0.390
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<50%RB>									
132322/1745	20M	QPSK 50RB_25	Front side	22.23	23.00	-0.11	1.194	0.223	0.266
132322/1745	20M	QPSK 50RB_25	Rear side	22.23	23.00	0.18	1.194	0.282	0.337
132322/1745	20M	QPSK 50RB_25	Left side	22.23	23.00	0.13	1.194	0.078	0.093
132322/1745	20M	QPSK 50RB_25	Right side	22.23	23.00	-0.09	1.194	0.070	0.083
132322/1745	20M	QPSK 50RB_25	Bottom side	22.23	23.00	-0.08	1.194	0.234	0.279

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode



**7.3.12. SAR Results [LTE Band 71]**

SAR Values [LTE Band 71]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head<1RB>									
133372/688	20M	QPSK 1RB_0	Left Cheek	24.53	25.00	0.12	1.114	0.114	0.127
133372/688	20M	QPSK 1RB_0	Left Tilt	24.53	25.00	0.04	1.114	0.052	0.058
133372/688	20M	QPSK 1RB_0	Right Cheek	24.53	25.00	0.15	1.114	0.096	0.107
133372/688	20M	QPSK 1RB_0	Right Tilt	24.53	25.00	-0.13	1.114	0.037	0.041
measured / reported SAR numbers – Head <50%RB>									
133322/683	20M	QPSK 50RB_0	Left Cheek	23.52	24.00	-0.18	1.117	0.081	0.091
133322/683	20M	QPSK 50RB_0	Left Tilt	23.52	24.00	0.18	1.117	0.037	0.041
133322/683	20M	QPSK 50RB_0	Right Cheek	23.52	24.00	0.08	1.117	0.069	0.077
133322/683	20M	QPSK 50RB_0	Right Tilt	23.52	24.00	-0.07	1.117	0.026	0.029
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
133372/688	20M	QPSK 1RB_0	Front side	24.53	25.00	0.12	1.114	0.211	0.235
133372/688	20M	QPSK 1RB_0	Rear side	24.53	25.00	-0.11	1.114	0.274	0.305
133372/688	20M	QPSK 1RB_0	Left side	24.53	25.00	0.06	1.114	0.087	0.097
133372/688	20M	QPSK 1RB_0	Right side	24.53	25.00	0.04	1.114	0.092	0.103
133372/688	20M	QPSK 1RB_0	Bottom side	24.53	25.00	0.03	1.114	0.238	0.265
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<50%RB>									
133322/683	20M	QPSK 50RB_0	Front side	23.52	24.00	0.13	1.117	0.151	0.169
133322/683	20M	QPSK 50RB_0	Rear side	23.52	24.00	0.04	1.117	0.196	0.219
133322/683	20M	QPSK 50RB_0	Left side	23.52	24.00	-0.13	1.117	0.062	0.069
133322/683	20M	QPSK 50RB_0	Right side	23.52	24.00	-0.14	1.117	0.066	0.073
133322/683	20M	QPSK 50RB_0	Bottom side	23.52	24.00	0.07	1.117	0.170	0.190
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
133372/688	20M	QPSK 1RB_0	Front side	24.53	25.00	-0.01	1.114	0.169	0.188
133372/688	20M	QPSK 1RB_0	Rear side	24.53	25.00	-0.02	1.114	0.242	0.270
133372/688	20M	QPSK 1RB_0	Left side	24.53	25.00	-0.14	1.114	0.086	0.096
133372/688	20M	QPSK 1RB_0	Right side	24.53	25.00	-0.16	1.114	0.078	0.086
133372/688	20M	QPSK 1RB_0	Bottom side	24.53	25.00	-0.10	1.114	0.194	0.216
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<50%RB>									
133322/683	20M	QPSK 50RB_0	Front side	23.52	24.00	0.15	1.117	0.121	0.135
133322/683	20M	QPSK 50RB_0	Rear side	23.52	24.00	-0.10	1.117	0.173	0.193
133322/683	20M	QPSK 50RB_0	Left side	23.52	24.00	-0.14	1.117	0.061	0.069
133322/683	20M	QPSK 50RB_0	Right side	23.52	24.00	-0.04	1.117	0.056	0.062
133322/683	20M	QPSK 50RB_0	Bottom side	23.52	24.00	-0.02	1.117	0.139	0.155
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
133372/688	20M	QPSK 1RB_0	Front side	24.53	25.00	0.07	1.114	0.310	0.345
133372/688	20M	QPSK 1RB_0	Rear side	24.53	25.00	-0.19	1.114	0.403	0.449
133372/688	20M	QPSK 1RB_0	Left side	24.53	25.00	-0.08	1.114	0.128	0.143
133372/688	20M	QPSK 1RB_0	Right side	24.53	25.00	0.09	1.114	0.135	0.150
133372/688	20M	QPSK 1RB_0	Bottom side	24.53	25.00	-0.12	1.114	0.350	0.390
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<50%RB>									
133322/683	20M	QPSK 50RB_0	Front side	23.52	24.00	-0.09	1.117	0.221	0.247
133322/683	20M	QPSK 50RB_0	Rear side	23.52	24.00	-0.07	1.117	0.288	0.322
133322/683	20M	QPSK 50RB_0	Left side	23.52	24.00	0.19	1.117	0.091	0.102
133322/683	20M	QPSK 50RB_0	Right side	23.52	24.00	-0.13	1.117	0.096	0.108





133322/683	20M	QPSK 50RB_0	Bottom side	23.52	24.00	-0.14	1.117	0.250	0.279
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
133372/688	20M	QPSK 1RB_0	Front side	24.53	25.00	-0.03	1.114	0.249	0.277
133372/688	20M	QPSK 1RB_0	Rear side	24.53	25.00	0.14	1.114	0.356	0.397
133372/688	20M	QPSK 1RB_0	Left side	24.53	25.00	-0.15	1.114	0.126	0.140
133372/688	20M	QPSK 1RB_0	Right side	24.53	25.00	0.13	1.114	0.114	0.127
133372/688	20M	QPSK 1RB_0	Bottom side	24.53	25.00	-0.19	1.114	0.285	0.318
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<50%RB>									
133322/683	20M	QPSK 50RB_0	Front side	23.52	24.00	0.01	1.117	0.178	0.199
133322/683	20M	QPSK 50RB_0	Rear side	23.52	24.00	-0.07	1.117	0.254	0.284
133322/683	20M	QPSK 50RB_0	Left side	23.52	24.00	0.12	1.117	0.090	0.101
133322/683	20M	QPSK 50RB_0	Right side	23.52	24.00	0.01	1.117	0.081	0.091
133322/683	20M	QPSK 50RB_0	Bottom side	23.52	24.00	0.09	1.117	0.203	0.227

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode



**7.3.13. SAR Results [WIFI 2.4G]**

SAR Values [WIFI 2.4G]									
Ch/ Freq. (MHz)	Channel Type	Test Position	Duty Cycle	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head									
6/2437	802.11b	Left Cheek	1.009	15.14	16.00	0.03	1.219	0.467	0.595
6/2437	802.11b	Left Tilt	1.009	15.14	16.00	-0.18	1.219	0.297	0.378
6/2437	802.11b	Right Cheek	1.009	15.14	16.00	-0.06	1.219	0.342	0.435
6/2437	802.11b	Right Tilt	1.009	15.14	16.00	-0.15	1.219	0.191	0.243
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
6/2437	802.11b	Front side	1.009	15.14	16.00	0.12	1.219	0.256	0.326
6/2437	802.11b	Rear side	1.009	15.14	16.00	-0.08	1.219	0.342	0.435
6/2437	802.11b	Left side	1.009	15.14	16.00	-0.03	1.219	0.163	0.208
6/2437	802.11b	Top side	1.009	15.14	16.00	-0.03	1.219	0.187	0.238
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
6/2437	802.11b	Front side	1.009	15.14	16.00	0.10	1.219	0.178	0.227
6/2437	802.11b	Rear side	1.009	15.14	16.00	0.13	1.219	0.325	0.414
6/2437	802.11b	Left side	1.009	15.14	16.00	-0.02	1.219	0.149	0.190
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
6/2437	802.11b	Front side	1.009	15.14	16.00	0.07	1.219	0.378	0.481
6/2437	802.11b	Rear side	1.009	15.14	16.00	-0.09	1.219	0.505	0.643
6/2437	802.11b	Left side	1.009	15.14	16.00	0.06	1.219	0.240	0.306
6/2437	802.11b	Top side	1.009	15.14	16.00	0.04	1.219	0.276	0.351
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
6/2437	802.11b	Front side	1.009	15.14	16.00	0.11	1.219	0.263	0.335
6/2437	802.11b	Rear side	1.009	15.14	16.00	0.19	1.219	0.479	0.610
6/2437	802.11b	Left side	1.009	15.14	16.00	0.02	1.219	0.220	0.280

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{W/kg}$ or 1.5W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{W/kg}$ or 1.0W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode



**7.3.14. SAR Results [WIFI 5.2G]**

SAR Values [WIFI 5.2G]									
Ch/ Freq. (MHz)	Channel Type	Test Position	Duty Cycle	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head									
36/5180	802.11a	Left Cheek	1.058	12.59	13.00	0.15	1.099	0.273	0.313
36/5180	802.11a	Left Tilt	1.058	12.59	13.00	0.04	1.099	0.174	0.200
36/5180	802.11a	Right Cheek	1.058	12.59	13.00	0.07	1.099	0.200	0.230
36/5180	802.11a	Right Tilt	1.058	12.59	13.00	0.06	1.099	0.112	0.129
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
36/5180	802.11a	Front side	1.058	12.59	13.00	0.13	1.099	0.150	0.172
36/5180	802.11a	Rear side	1.058	12.59	13.00	0.07	1.099	0.201	0.231
36/5180	802.11a	Left side	1.058	12.59	13.00	-0.02	1.099	0.095	0.109
36/5180	802.11a	Top side	1.058	12.59	13.00	0.13	1.099	0.110	0.126
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
36/5180	802.11a	Front side	1.058	12.59	13.00	-0.05	1.099	0.104	0.119
36/5180	802.11a	Rear side	1.058	12.59	13.00	0.00	1.099	0.190	0.218
36/5180	802.11a	Left side	1.058	12.59	13.00	0.06	1.099	0.088	0.100
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
36/5180	802.11a	Front side	1.058	12.59	13.00	-0.16	1.099	0.220	0.253
36/5180	802.11a	Rear side	1.058	12.59	13.00	0.08	1.099	0.295	0.339
36/5180	802.11a	Left side	1.058	12.59	13.00	0.19	1.099	0.139	0.160
36/5180	802.11a	Top side	1.058	12.59	13.00	-0.17	1.099	0.161	0.185
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
36/5180	802.11a	Front side	1.058	12.59	13.00	0.08	1.099	0.153	0.176
36/5180	802.11a	Rear side	1.058	12.59	13.00	-0.11	1.099	0.279	0.320
36/5180	802.11a	Left side	1.058	12.59	13.00	-0.07	1.099	0.129	0.148

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode



**7.3.15. SAR Results [WIFI 5.3G]**

SAR Values [WIFI 5.3G]									
Ch/ Freq. (MHz)	Channel Type	Test Position	Duty Cycle	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head									
60/5300	802.11a	Left Cheek	1.057	13.38	14.00	-0.17	1.153	0.302	0.364
60/5300	802.11a	Left Tilt	1.057	13.38	14.00	-0.05	1.153	0.192	0.231
60/5300	802.11a	Right Cheek	1.057	13.38	14.00	0.15	1.153	0.222	0.267
60/5300	802.11a	Right Tilt	1.057	13.38	14.00	-0.03	1.153	0.123	0.148
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
60/5300	802.11a	Front side	1.057	13.38	14.00	0.18	1.153	0.166	0.200
60/5300	802.11a	Rear side	1.057	13.38	14.00	-0.11	1.153	0.222	0.267
60/5300	802.11a	Left side	1.057	13.38	14.00	-0.07	1.153	0.106	0.128
60/5300	802.11a	Top side	1.057	13.38	14.00	0.15	1.153	0.122	0.147
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
60/5300	802.11a	Front side	1.057	13.38	14.00	0.14	1.153	0.116	0.140
60/5300	802.11a	Rear side	1.057	13.38	14.00	-0.07	1.153	0.210	0.253
60/5300	802.11a	Left side	1.057	13.38	14.00	0.03	1.153	0.097	0.117
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
60/5300	802.11a	Front side	1.057	13.38	14.00	-0.02	1.153	0.245	0.295
60/5300	802.11a	Rear side	1.057	13.38	14.00	0.09	1.153	0.328	0.395
60/5300	802.11a	Left side	1.057	13.38	14.00	-0.20	1.153	0.157	0.189
60/5300	802.11a	Top side	1.057	13.38	14.00	-0.17	1.153	0.180	0.217
measured / reported SAR numbers - Body-worn cover opened (distance 5mm)<1RB>									
60/5300	802.11a	Front side	1.057	13.38	14.00	-0.06	1.153	0.171	0.206
60/5300	802.11a	Rear side	1.057	13.38	14.00	0.16	1.153	0.310	0.373
60/5300	802.11a	Left side	1.057	13.38	14.00	-0.08	1.153	0.143	0.172

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{W/kg}$ or 1.5W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{W/kg}$ or 1.0W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode



**7.3.16. SAR Results [WIFI 5.5G]**

SAR Values [WIFI 5.5G]									
Ch/ Freq. (MHz)	Channel Type	Test Position	Duty Cycle	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head									
118/5580	802.11a	Left Cheek	1.058	12.59	13.00	0.02	1.099	0.259	0.297
118/5580	802.11a	Left Tilt	1.058	12.59	13.00	-0.11	1.099	0.182	0.209
118/5580	802.11a	Right Cheek	1.058	12.59	13.00	0.10	1.099	0.190	0.218
118/5580	802.11a	Right Tilt	1.058	12.59	13.00	0.00	1.099	0.110	0.126
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
118/5580	802.11a	Front side	1.058	12.59	13.00	-0.04	1.099	0.145	0.166
118/5580	802.11a	Rear side	1.058	12.59	13.00	-0.13	1.099	0.207	0.238
118/5580	802.11a	Left side	1.058	12.59	13.00	-0.07	1.099	0.103	0.118
118/5580	802.11a	Top side	1.058	12.59	13.00	0.12	1.099	0.119	0.137
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
118/5580	802.11a	Front side	1.058	12.59	13.00	-0.15	1.099	0.099	0.114
118/5580	802.11a	Rear side	1.058	12.59	13.00	-0.19	1.099	0.202	0.232
118/5580	802.11a	Left side	1.058	12.59	13.00	-0.15	1.099	0.088	0.101
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
118/5580	802.11a	Front side	1.058	12.59	13.00	0.14	1.099	0.205	0.235
118/5580	802.11a	Rear side	1.058	12.59	13.00	0.03	1.099	0.293	0.336
118/5580	802.11a	Left side	1.058	12.59	13.00	0.19	1.099	0.146	0.168
118/5580	802.11a	Top side	1.058	12.59	13.00	0.13	1.099	0.168	0.193
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
118/5580	802.11a	Front side	1.058	12.59	13.00	-0.03	1.099	0.140	0.161
118/5580	802.11a	Rear side	1.058	12.59	13.00	0.09	1.099	0.276	0.317
118/5580	802.11a	Left side	1.058	12.59	13.00	0.02	1.099	0.125	0.143

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{W/kg}$ or 1.5W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{W/kg}$ or 1.0W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode



**7.3.17. SAR Results [WIFI 5.8G]**

SAR Values [WIFI 5.8G]									
Ch/ Freq. (MHz)	Channel Type	Test Position	Duty Cycle	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers – Head									
149/5745	802.11a	Left Cheek	1.057	12.28	13.00	0.06	1.180	0.241	0.297
149/5745	802.11a	Left Tilt	1.057	12.28	13.00	-0.14	1.180	0.169	0.208
149/5745	802.11a	Right Cheek	1.057	12.28	13.00	-0.11	1.180	0.176	0.217
149/5745	802.11a	Right Tilt	1.057	12.28	13.00	0.18	1.180	0.102	0.126
measured / reported SAR numbers - Hotspot cover closed (distance 10mm)<1RB>									
149/5745	802.11a	Front side	1.057	12.28	13.00	0.11	1.180	0.135	0.166
149/5745	802.11a	Rear side	1.057	12.28	13.00	-0.15	1.180	0.192	0.237
149/5745	802.11a	Left side	1.057	12.28	13.00	0.12	1.180	0.095	0.117
149/5745	802.11a	Top side	1.057	12.28	13.00	-0.01	1.180	0.111	0.137
measured / reported SAR numbers - Hotspot cover opened (distance 10mm)<1RB>									
149/5745	802.11a	Front side	1.057	12.28	13.00	-0.19	1.180	0.091	0.112
149/5745	802.11a	Rear side	1.057	12.28	13.00	-0.16	1.180	0.187	0.231
149/5745	802.11a	Left side	1.057	12.28	13.00	0.13	1.180	0.082	0.100
measured / reported SAR numbers - Body-worn cover closed (distance 5mm)<1RB>									
149/5745	802.11a	Front side	1.057	12.28	13.00	-0.05	1.180	0.191	0.235
149/5745	802.11a	Rear side	1.057	12.28	13.00	-0.09	1.180	0.272	0.335
149/5745	802.11a	Left side	1.057	12.28	13.00	0.04	1.180	0.135	0.166
149/5745	802.11a	Top side	1.057	12.28	13.00	-0.04	1.180	0.157	0.194
measured / reported SAR numbers - Body-wornr cover opened (distance 5mm)<1RB>									
149/5745	802.11a	Front side	1.057	12.28	13.00	-0.19	1.180	0.129	0.159
149/5745	802.11a	Rear side	1.057	12.28	13.00	0.11	1.180	0.265	0.327
149/5745	802.11a	Left side	1.057	12.28	13.00	-0.15	1.180	0.116	0.143

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{W/kg}$ or 1.5W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{W/kg}$ or 1.0W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{MHz}$.
- 3) Body worn mode and hotspot mode use the same test distance for 10mm. The above data only reflects hotspot mode





7.4. Multiple Transmitter Evaluation

7.4.1. Simultaneous SAR test evaluation

Simultaneous Transmission Possibilities

NO.	Simultaneous Tx Combination	Head	Body	Hotspot
1	GSM Voice + BT	Yes	Yes	No
2	GSM DATA + BT	Yes	Yes	No
3	GSM Voice + WIFI	Yes	Yes	Yes
4	GSM DATA + WIFI	Yes	Yes	Yes
5	UMTS + BT	Yes	Yes	No
6	UMTS + WIFI	Yes	Yes	Yes
7	LTE + BT	Yes	Yes	No
8	LTE + WIFI	Yes	Yes	Yes

Note:

- 1) Wi-Fi and Bluetooth share the same Tx antenna and can't transmit simultaneously.
- 2) The device does not support DTM function.





7.4.2. Estimated SAR

When the standalone SAR test exclusion is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion:

- $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x]$ W/kg for test separation distances ≤ 50 mm;

Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Estimated SAR Result

Freq. Band	Frequency (GHz)	Test Position	max. power (dBm)	max. power (mw)	Test Separation (mm)	Estimated
						1g SAR (W/kg)
Bluetooth	2.48	Head	1	1.26	5	0.053
		Body-worn	1	1.26	5	0.053



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7.4.3. Simultaneous Transmission SAR Summation Scenario

Test position		Main Antenna SARmax (W/kg)												BT/WIFI Antenna SARmax (W/kg)							Sum med 1g SAR max (W/kg)
		GS M	GS M	WCD MA	WCD MA Band IV	WCD MA Band V	LT E Band 2	LT E Band 5	LT E Band 7	LT E Band 12	LT E Band 13	LT E Band 66	LT E Band 71	Wi Fi 2.4 G	Wi Fi 5.2 G	Wi Fi 5.3 G	Wi Fi 5.5 G	Wi Fi 5.8 G	BT		
		85 0	19 00	Band II																	
Head	Left cheek	0.195	0.076	0.087	0.122	0.118	0.173	0.111	0.079	0.117	0.112	0.131	0.127	0.595	0.313	0.364	0.297	0.297	0.053	0.79	
	Left tilted	0.153	0.044	0.068	0.083	0.082	0.123	0.07	0.031	0.046	0.094	0.102	0.058	0.378	0.231	0.231	0.209	0.208	0.053	0.531	
	Right cheek	0.198	0.073	0.083	0.112	0.109	0.161	0.103	0.092	0.099	0.099	0.127	0.107	0.435	0.23	0.267	0.218	0.217	0.053	0.633	
	Right tilted	0.127	0.042	0.069	0.073	0.074	0.11	0.064	0.034	0.038	0.083	0.099	0.041	0.243	0.129	0.148	0.126	0.126	0.053	0.37	
Hotspot covered 10m	Front side	0.228	0.135	0.134	0.144	0.153	0.333	0.221	0.531	0.108	0.106	0.346	0.235	0.326	0.172	0.2	0.166	0.166	/	0.857	
	Back side	0.353	0.187	0.183	0.2	0.183	0.549	0.267	0.618	0.14	0.141	0.361	0.305	0.435	0.231	0.267	0.238	0.237	/	1.053	
	Left side	0.083	0.039	0.065	0.086	0.085	0.18	0.073	0.197	0.069	0.081	0.122	0.097	0.208	0.109	0.128	0.118	0.117	/	0.405	
	Right side	0.16	0.105	0.093	0.1	0.097	0.137	0.073	0.161	0.056	0.071	0.121	0.103	/	/	/	/	/	/	0.161	
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	0.238	0.126	0.147	0.137	0.137	/	0.238	
	Bottom side	0.277	0.138	0.118	0.127	0.129	0.353	0.237	0.495	0.111	0.107	0.348	0.265	/	/	/	/	/	/	0.495	
Hotspot opened 10m	Front side	0.211	0.13	0.111	0.109	0.141	0.325	0.18	0.457	0.087	0.076	0.252	0.188	0.227	0.119	0.14	0.114	0.112	/	0.684	
	Back side	0.342	0.15	0.172	0.172	0.171	0.536	0.257	0.609	0.127	0.111	0.319	0.27	0.414	0.218	0.253	0.232	0.231	/	1.023	
	Left side	0.072	0.031	0.057	0.082	0.086	0.176	0.078	0.194	0.052	0.037	0.088	0.096	0.19	0.1	0.117	0.101	0.1	/	0.384	
	Right side	0.149	0.101	0.079	0.073	0.073	0.134	0.065	0.147	0.052	0.037	0.079	0.086	/	/	/	/	/	/	0.149	
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0	
	Bottom side	0.242	0.139	0.111	0.107	0.105	0.345	0.209	0.47	0.099	0.091	0.265	0.216	/	/	/	/	/	/	0.47	
Body worn covered 5m	Front side	0.4	0.211	0.206	0.222	0.237	0.454	0.343	0.625	0.161	0.156	0.51	0.345	0.481	0.253	0.295	0.235	0.235	0.053	1.106	
	Back side	0.619	0.292	0.281	0.31	0.283	0.749	0.413	0.726	0.208	0.207	0.532	0.449	0.643	0.339	0.395	0.336	0.335	0.053	1.392	
	Left side	0.145	0.062	0.099	0.133	0.132	0.246	0.113	0.231	0.103	0.118	0.179	0.143	0.306	0.16	0.189	0.168	0.166	0.053	0.552	
	Right side	0.281	0.163	0.143	0.154	0.15	0.187	0.114	0.189	0.084	0.104	0.178	0.15	/	/	/	/	/	/	0.281	
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	0.351	0.185	0.217	0.193	0.194	0.053	0.351	
	Bottom side	0.486	0.214	0.183	0.197	0.198	0.481	0.367	0.582	0.164	0.158	0.513	0.39	/	/	/	/	/	/	0.582	
Body worn covered	Front side	0.323	0.202	0.17	0.168	0.218	0.443	0.279	0.537	0.128	0.111	0.372	0.277	0.335	0.176	0.206	0.161	0.159	0.053	0.872	
	Back side	0.524	0.234	0.264	0.264	0.265	0.73	0.398	0.716	0.188	0.162	0.47	0.397	0.61	0.32	0.373	0.317	0.327	0.053	1.34	
	Left side	0.11	0.049	0.088	0.126	0.133	0.24	0.12	0.228	0.077	0.055	0.13	0.04	0.28	0.148	0.172	0.143	0.143	0.053	0.52	



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ned 5m m	Right side	0.2 29	0.1 58	0.12 3	0.11 3	0.11 4	0.1 83	0.1 01	0.1 73	0.0 77	0.0 55	0.1 16	0.1 27	/	/	/	/	/	/	0.22 9
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0
	Bottom side	0.3 71	0.2 16	0.17	0.16 5	0.16 1	0.4 69	0.3 24	0.5 52	0.1 47	0.1 34	0.3 9	0.3 18	/	/	/	/	/	/	0.55 2





Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

.....The End of Test Report.....

