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FCC SAR TEST REPORT

Application No.: SEWM2304000111RG

Applicant:Shenzhen Tinno Mobile Technology Corp.Manufacturer:Shenzhen Tinno Mobile Technology Corp.

Product Name: Smart Phone Model No.(EUT): U680AA, U680AC

FCC ID: XD6U680AA

Standards: FCC 47CFR §2.1093

Date of Receipt: 2023-05-04

Date of Test: 2023-05-23 to 2023-06-13

Date of Issue: 2023-06-13
Test conclusion: PASS *

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

Authorized Signature:

Þanta Sun

Wireless Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2304000111RG0 8	01	Original	2023-06-13



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TEST SUMMARY

Francisco Dand	Maximum Reported SAR(W/kg)					
Frequency Band	Head	Body-worn	Hotspot	Product specific 10g SAR		
WCDMA Band II	0.14	0.50	1.30	3.11		
WCDMA Band IV	0.11	0.67	1.22	3.17		
WCDMA Band V	0.33	0.44	0.44	/		
LTE Band 2	0.19	0.63	1.25	3.01		
LTE Band 5	0.42	0.48	0.52	/		
LTE Band 7	0.02	0.31	0.99	/		
LTE Band 12	0.31	0.52	0.54	/		
LTE Band 14	0.41	0.47	0.50	1		
LTE Band 30	0.18	0.53	1.06	1		
LTE Band 66	0.15	0.53	1.16	1		
WI-FI (2.4GHz)	1.17	0.20	0.41	1		
WI-FI (5GHz)	1.16	0.35	0.55	1.07		
ВТ	0.13	<0.10	<0.10	1		
SAR Limited(W/kg)		1.6		4.0		
	Maximum Simultaneous Transmission SAR (W/kg)					
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR		
Sum SAR	1.39	1.06	1.47	3.17		
SPLSR	1	1	/	1		
SPLSR Limited		0.04	•	0.1		

1) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 4 (Frequency ránge:1710 - 1755 MHz) is respectively covered by LTE Band 66 (Frequency range:1710 - 1780 MHz)

Reviewed by

Well Wei

Prepared by

Nick Hu



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1 General Information

1.1 Details of Client

Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address:	TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address:	TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Leon Xu



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1.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327





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1.4 General Description of EUT

Device Type :	portable device				
Exposure Category:	uncontrolled environment / general population				
Product Name:	Smart Phone				
Model No.(EUT):	U680AA, U680AC				
FCC ID:	XD6U680AA				
Product Phase:	Identical Prototype				
IMEI:	861745060008073				
Hardware Version:	V1.0				
Software Version:	U680AAV01.02.10				
Antenna Type:	Integrated				
Device Operating Configuratio					
Modulation Mode:	WCDMA: QPSK, 16Q. LTE: QPSK,16QAM,6				
Device Class:	В				
HSDPA UE Category:	24	HSUPA UE Category	7		
DC-HSDPA UE Category:	24				
	3, tested with power control "all 1"(WCDMA Band)				
	3, tested with power control Max Power(LTE Band)				
	Band	Tx (MHz)	Rx (MHz)		
	WCDMA Band II	1850~1910	1930~1990		
	WCDMA Band IV	1710~1755	2110~2155		
	WCDMA Band V	824~849	869~894		
	LTE Band 2	1850 ~1910	1930 ~1990		
	LTE Band 4	1710~1755	2110~2155		
	LTE Band 5	824~849	869-894		
	LTE Band 7	2500~2570	2620~2690		
Frequency Bands:	LTE Band 12	699~716	729~746		
requeries Barraer	LTE Band 14	788~798	758~768		
	LTE Band 30	2305~2315	2350~2360		
	LTE Band 66	1710~1780	2110~2200		
	Bluetooth	2400~2483.5	2400~2483.5		
	Wi-Fi 2.4G	2412~2472	2412~2472		
		5150-5250	5150-5250		
	WIFI(5GHz)	5250-5350	5250-5350		
	VIII 1(00112)	5470-5725	5470-5725		
	— –	5725-5850	5725-5850		
RF Cable:		d by the aplicant $\ \square$ Provided by the $\ \square$	aboratory		
	Model:	516793			
Battery Information:	Normal Voltage:	3.87V			
Dattery Information.	Rated capacity:	5850mAh			
	Manufacturer:	Huizhou Ganfeng Lienergy Battery Technology Co.,Ltd.			



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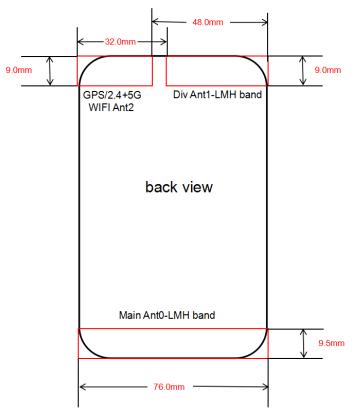
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1.4.1 DUT Antenna Locations(Back View)



Antenna	Support Band
Ant 0	WCDMA B2/4/5, LTE B2/4/5/7/12/14/30/66
Ant 2	GPS,2.4G WIFI,5G WIFI, BT

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 165 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥180mm, so it is a phablet.
- 2) DIV Antenna does not support transmitter function.

According to the distance between LTE/WCDMA/WIFI&BT 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	Тор	Bottom
Main Ant	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
WIFI/BT Ant	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	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.



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1.4.2 LTE CA additional specification

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

Intra-band carrier aggregation requirements for uplink.

Intra-band and inter-band carrier aggregation requirements for downlink.

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

The detailed power information can be referred to "8.1.3 Conducted Power of Downlink CA".

LTE CA Downlink (DL)
2A-12A
2A-5A
5A-30A
12A-30A
14A-30A
66A-5A
66A-12A
CA_66A-66A
CA_66B
CA_66C



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1.4.3 Power reduction specification

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

- A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction
- A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.

The detailed power reduction information can be referred to "8.1 Measurement of RF conducted Power".



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-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



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1.6 RF exposure limits

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

Notes:

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

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



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

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

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



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2 Laboratory Environment

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

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

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

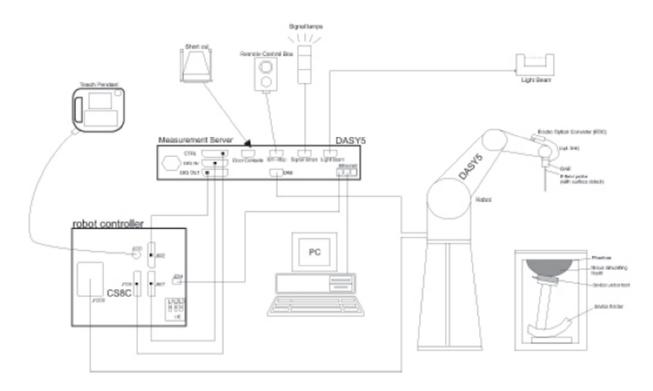
The DASY5 system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration



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

3.2 Isotropic E-field Probe EX3DV4

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



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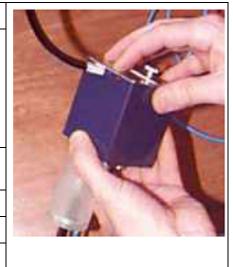
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3.3 Data Acquisition Electronics (DAE)

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



3.4 SAM Twin Phantom

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



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

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



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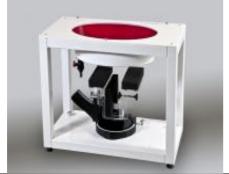
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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid	Compatible with all SPEAG tissue	
Compatibility	simulating liquids (incl. DGBE type)	16
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	- 6
Dimensions	Major axis: 600 mm	0.0
	Minor axis: 400 mm	
Filling Volume	approx. 30 liters	
Wooden Support	SPEAG standard phantom table	



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

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



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-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.



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			≤ 3 GHz	> 3 GHz		
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·8·ln(2) ± 0.5 mm		
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°		
			≤ 2 GHz: ≤ 15 mm 2 − 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan s	patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$		
	uniform grid: $\Delta z_{Zoom}(n)$ $\begin{array}{c} \Delta z_{Zoom}(n) \\ \\ \Delta z_{Zoom}(1): \ between \\ 1^{st} \ two \ points \ closest \\ to \ phantom \ surface \\ \\ \Delta z_{Zoom}(n \ge 1): \\ between \ subsequent \\ points \\ \end{array}$		≤ 5 mm	$3-4 \text{ GHz}: \le 4 \text{ mm}$ $4-5 \text{ GHz}: \le 3 \text{ mm}$ $5-6 \text{ GHz}: \le 2 \text{ mm}$		
Maximum zoom scan spatial resolution, normal to phantom surface			≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm		
			$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	x, y, z		3 - 4 GHz: ≥ 28 1 ≥ 30 mm 4 - 5 GHz: ≥ 25 1 5 - 6 GHz: ≥ 22 1			

Step 4: Power reference measurement (drift)

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



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3.7.2 Data Storage

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

3.7.3 Data Evaluation by SEMCAD

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

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

- Conversion factor ConvFi - Diode compression point Dcpi

Device parameters: - Frequency f - Crest factor

Media parameters: - Conductivity 3

- Density

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 DCtransmission factor from the diode to the evaluation electronics.

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

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

E-field probes:

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



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H-field probes:

 $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$ With Vi = compensated signal of channel i (i = x, y, z)

Normi = sensor sensitivity of channel I

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

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

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

SAR = local specific absorption rate in mW/g

Etot = 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.

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

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

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

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

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is \geq 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 ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

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



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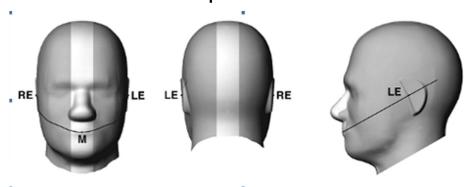
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5 Description of Test Position

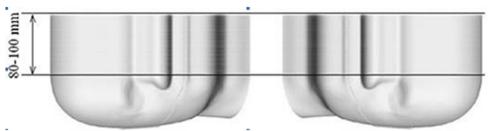
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

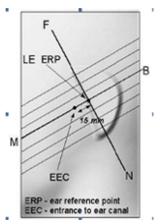


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

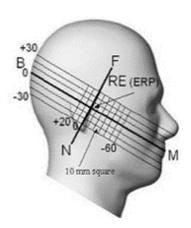
Note: The centre strip including the nose region has a different thickness tolerance.



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



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



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



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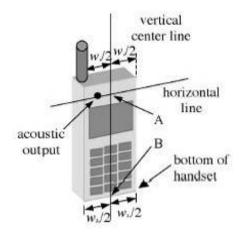


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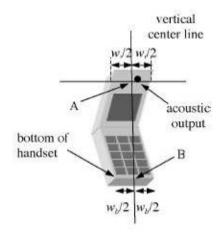
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5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-"fixed case"



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

5.1.3 Definition of the "cheek" position

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



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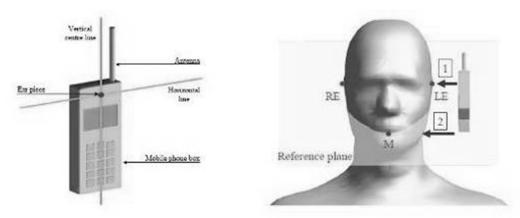
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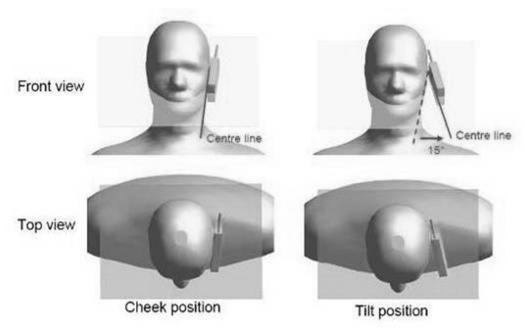
5.1.4 Definition of the "tilted" position

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

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



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



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



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5.2 Body Exposure Condition

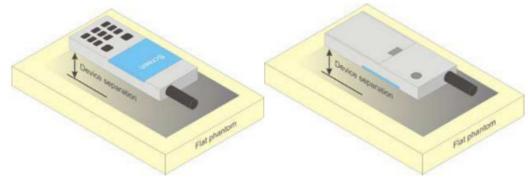
5.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices



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5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

Per FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet". The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

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



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

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

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

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

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

Table 3: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

	Measured	Target Tissue (±5%)		Measure	d Tissue	Liquid Temp.		
Tissue Type	Frequency (MHz)	Er	σ(S/m)	ε r	σ(S/m)	(°C)	Test Date	
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	41.624	0.894	22.2	2023-05-25	
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.784	0.887	22.3	2023-05-23	
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.206	1.315	22.5	2023-05-29	
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	41.422	1.414	22.4	2023-06-01	
2300 Head	2300	39.5 (37.53~41.48)	1.67 (1.59~1.75)	39.697	39.697 1.684		2023-06-03	
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	39.082	1.814	22.4	2023-06-07	
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.735	1.969	22.1	2023-06-05	
5250 Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	36.514	4.734	22.3	2023-06-09	
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.021	5.067	22.2	2023-06-11	
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.649	5.247	22.4	2023-06-13	

Table 4: Measurement result of Tissue electric parameters



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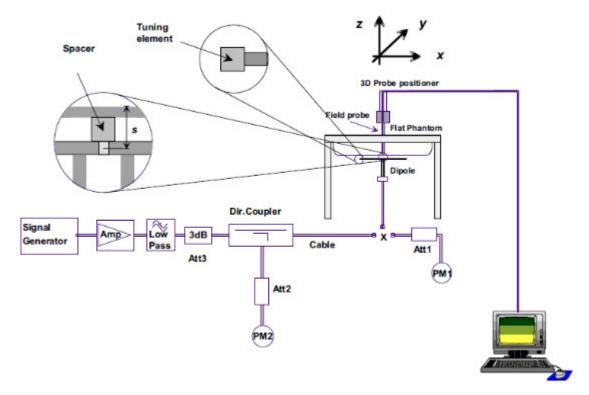
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SAR System Check 6.2

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



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



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6.2.1 Justification for Extended SAR Dipole Calibrations

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

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	Devi		Liquid Temp.	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(°C)	
D750V3	Head	2.1	1.39	8.40	5.56	8.39	5.63	0.12%	-1.24%	22.2	2023-05-25
D835V2	Head	2.36	1.55	9.44	6.20	9.64	6.29	-2.07%	-1.43%	22.3	2023-05-23
D1750V2	Head	8.84	4.70	35.36	18.80	36.30	19.20	-2.59%	-2.08%	22.5	2023-05-29
D1900V2	Head	9.69	5.09	38.76	20.36	39.30	20.20	-1.37%	0.79%	22.4	2023-06-01
D2300V2	Head	12.2	5.82	48.80	23.28	49.30	23.10	-1.01%	0.78%	22.3	2023-06-03
D2450V2	Head	13.10	6.13	52.40	24.52	51.90	23.80	0.96%	3.03%	22.4	2023-06-07
D2600V2	Head	14.90	6.67	59.60	26.68	56.80	24.90	4.93%	7.15%	22.1	2023-06-05
Valid	dation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	SAR I arget SAR I arget SAR Devi		Devi		Liquid Temp.		
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(℃)	
	Head(5.25GHz)	7.93	2.28	79.30	22.80	75.20	21.50	5.45%	6.05%	22.3	2023-06-09
D5GHzV2	Head(5.6GHz)	8.01	2.28	80.10	22.80	80.00	22.70	0.12%	0.44%	22.2	2023-06-11
	Head(5.75GHz)	8.08	2.30	80.80	23.00	78.70	22.30	2.67%	3.14%	22.4	2023-06-13

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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Test Configuration 7

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ 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.

Operation Configurations 7.2

7.2.1 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA / DC-HSDPA

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



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a) HSDPA

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



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Sub-test	βς	Bd	βd(SF)	I(SF) βc/βd		CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

7 (Ahs=24/15) with β hs=24/15* β c.

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

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

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

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



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			rage. 30 01 11	
HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter- TTI Interval	MaximumH S-DSCH Transport BlockBits/HS- DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7: HSDPA UE category

b) HSUPA

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



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Sub -test₽	βοσ	βd€	β _d (SF) _e	β√β₄₽	β _{hs} (1	βec↔	β _{ed} ₽	β _e « « (SF)+	βed↔ (code)↔	CM(2)+ (dB)+2	MP R↓ (dB)↓	AG(4)+/ Inde x+/	E- TFC I
1₽	11/15(3)+3	15/15(3)	64₽	11/15(3)43	22/15₽	209/22 5↔	1039/225	4€	1₽	1.04	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 ₀	67₽
3₽	15/15	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ed1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0∉	1.0₽	15.0	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)+3	15/15(4)	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4€	1₽	1.0∉	0.0₽	21	81₽

Note 1: \triangle ACK, \triangle NACK and \triangle CQI = 8 $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$ $\beta_{hs} = 30/15 * \beta_{e} = 30/15$

Note 2: CM = 1 for β_c/β_d = 12/15, β_{hs}/β_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: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

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

Table 8: Subtests for UMTS Release 6 HSUPA

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

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

Table 9: HSUPA UE category



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c) DC-HSDPA

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

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

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

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

Note:

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



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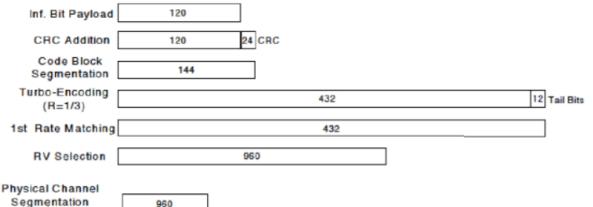


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test₽	βc₽	β _d ⊷	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{e^2}}$	β _{hs} .(1)₽	CM(dB)(2)	MPR (dB)
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)	24/15₽	1.0₽	0₽
3₽	15/15₽	8/15₽	64₽	15/8₽	30/15₽	1.5₽	0.5₽
4₽	15/15₽	4/15₽	64₽	15/4₽	30/15₽	1.5₽	0.5₽

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

Note 2: CM=1 for $\beta_c/\beta_{d=}$ 12/15, $\beta_{hs}/\beta_c=$ 24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to $\beta_c=11/15$ and $\beta_d=15/15$.

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

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



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d) HSPA+

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

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

- 1	Sub- test	β₀₊/ (Note3)₊/	βd∻	β _{Hs} . (Note1).	β _{ec} ₊/	β _{ed} .√ (2xSF2) .√		CM⊬ (dB)⊬	MPR <i>⊷</i> (dB)⊷	Index⊎	(Note 5)	E-TFCI (boost)∂	ı
						(Note 4)₽	(Note 4)₽	(Note 2)⊹	(Note 2) <i>←</i>	(Note 4)₽			
	• 1↩	1₽	04□	30/15₽	30/15	βed1: 30/15↔	βed3: 24/15↔	3.5₽	2.5₽	14₽	105₽	105₽	-
						βed2: 30/15₽	βed4: 24/15₽						

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

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

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

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

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



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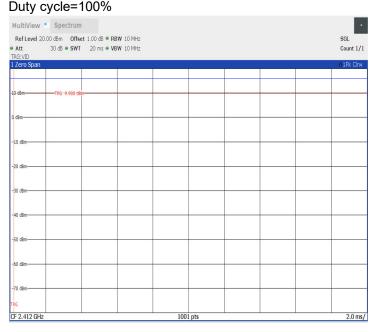
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7.2.2 WiFi Test Configuration

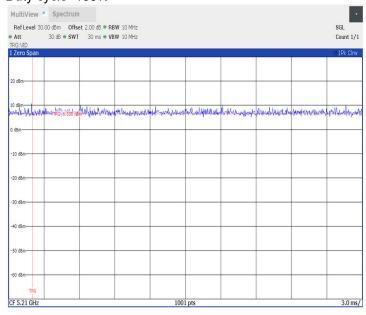
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.2.1 Duty cycle

Wi-Fi 2.4GHz 802.11b:



Wi-Fi 5GHz 802.11ac VHT80: Duty cycle=100%





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7.2.2.2 Initial Test Position SAR Test Reduction Procedure

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

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

7.2.2.3 Initial Test Configuration Procedures

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

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

7.2.2.4 Subsequent Test Configuration Procedures

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

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



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

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



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7.2.2.5 2.4 GHz WiFi SAR Procedures

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

802.11b DSSS SAR Test Requirements

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

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

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

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

SAR Test Requirements for OFDM configurations

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





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7.2.2.6 WiFi 5G SAR Test Procedures

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

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

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

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

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

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



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

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

7.2.2.6.4 SAR Test Requirements for OFDM configurations

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



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7.2.3 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8820C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

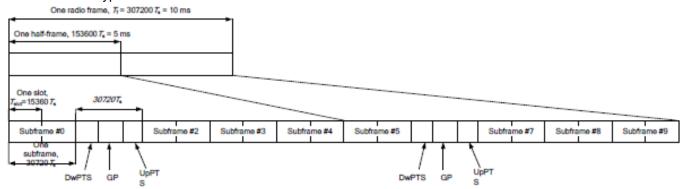
TDD LTE test consideration

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

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

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

Frame structure type 2:





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

Special	•	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink					
subframe	DwPTS	Up	PTS	DwPTS	Up	PTS			
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink			
0	6592.Ts			7680.Ts					
1	19760.Ts			20480.Ts	2192.Ts	2560.Ts			
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.15				
3	24144.Ts			25600.Ts					
4	26336.Ts			7680.Ts					
5	6592.Ts			20480.Ts	4384.Ts	5120.Ts			
6	19760.Ts			23040.Ts	4304.18	5120.18			
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts					
8	24144.Ts			-	-	-			
9	13168.Ts			=	-	-			

Uplink-downlink configurations.

Uplink-downlink	Downlink-to-	Subframe number									
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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

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



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A) Spectrum Plots for RB Configurations

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

B) MPR

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

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

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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Test Result 8

8.1 Measurement of RF conducted Power

8 1 1 Conducted Power of WCDMA

	rowel of wodivia	WCDMA Band II Full I	Power		
		erage Conducted Pow			
Channel		9262	9400	9538	Tune up
MODIMA	12.2kbps RMC	23.16	23.19	23.14	24.00
WCDMA	12.2kbps AMR	23.14	23.17	23.13	24.00
	Subtest 1	21.65	21.30	21.52	22.50
HCDDA	Subtest 2	21.21	21.75	22.09	22.50
HSDPA	Subtest 3	21.63	21.99	21.47	22.50
	Subtest 4	21.57	21.95	22.04	22.50
	Subtest 1	20.59	20.48	20.12	21.00
	Subtest 2	20.49	20.44	20.03	21.00
HSUPA	Subtest 3	20.78	20.70	21.07	22.00
	Subtest 4	20.09	19.53	19.84	20.50
	Subtest 5	21.31	21.00	21.39	22.00
	Subtest 1	21.25	21.55	21.58	22.50
DO HODDA	Subtest 2	21.91	21.30	21.46	22.50
DC-HSDPA	Subtest 3	21.68	21.39	21.88	22.50
	Subtest 4	21.22	21.43	21.64	22.50
HSPA+	16QAM	20.71	21.06	20.81	22.00

	WCDMA Band II Hotspot on										
	Average Conducted Power(dBm)										
Channel		9262	9400	9538	Tune up						
WCDMA	12.2kbps RMC	21.37	21.39	21.36	22.50						
WCDIMA	12.2kbps AMR	21.35	21.37	21.34	22.50						
	Subtest 1	20.10	19.71	19.89	21.00						
HSDPA	Subtest 2	19.36	20.25	20.40	21.00						
ПЭДРА	Subtest 3	20.13	20.18	19.49	21.00						
	Subtest 4	19.78	20.02	20.26	21.00						
	Subtest 1	18.93	18.85	18.30	19.50						
	Subtest 2	18.74	18.85	18.43	19.50						
HSUPA	Subtest 3	18.93	18.84	19.12	20.50						
	Subtest 4	18.54	18.00	17.89	19.00						
	Subtest 5	19.43	19.49	19.75	20.50						
	Subtest 1	19.67	19.77	19.79	21.00						
DC HCDDA	Subtest 2	19.92	19.55	19.72	21.00						
DC-HSDPA	Subtest 3	19.89	19.61	19.90	21.00						
	Subtest 4	19.65	19.44	19.90	21.00						
HSPA+	16QAM	19.15	19.16	19.17	20.50						



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			ı aye.	33 01 110	
	V	NCDMA Band IV Full	Power		
	Av	erage Conducted Pov	ver(dBm)		
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	22.95	22.97	22.85	24.00
WCDIVIA	12.2kbps AMR	22.94	22.95	22.83	24.00
	Subtest 1	21.32	21.01	21.55	22.50
HCDDA	Subtest 2	21.33	21.69	21.28	22.50
HSDPA	Subtest 3	21.13	21.16	21.77	22.50
	Subtest 4	21.54	21.6	21.66	22.50
	Subtest 1	19.94	19.61	19.49	21.00
	Subtest 2	20.29	20.27	19.83	21.00
HSUPA	Subtest 3	20.91	20.61	20.61	22.00
	Subtest 4	19.62	19.13	19.32	20.50
	Subtest 5	21.12	21.04	20.92	22.00
	Subtest 1	21.56	21.39	21.65	22.50
DC-HSDPA	Subtest 2	21.76	21.81	21.16	22.50
DC-UODPA	Subtest 3	21.66	21.16	21.7	22.50
	Subtest 4	21.57	20.99	21.28	22.50
HSPA+	16QAM	20.76	20.75	20.82	22.00

	WCDMA Band IV Hotspot on									
	Average Conducted Power(dBm)									
Channel		1312	1412	1513	Tune up					
WCDMA	12.2kbps RMC	21.51	21.56	21.55	22.50					
WCDIVIA	12.2kbps AMR	21.49	21.55	21.53	22.50					
	Subtest 1	20.04	19.65	20.42	21.00					
HSDPA	Subtest 2	20.07	20.45	19.68	21.00					
порга	Subtest 3	20.01	20.00	20.52	21.00					
	Subtest 4	20.17	20.06	20.48	21.00					
	Subtest 1	18.66	18.48	17.99	19.50					
	Subtest 2	18.74	18.83	18.71	19.50					
HSUPA	Subtest 3	19.33	19.40	19.34	20.50					
	Subtest 4	18.18	17.82	17.72	19.00					
	Subtest 5	19.72	19.66	19.48	20.50					
	Subtest 1	20.14	19.94	20.21	21.00					
DC-HSDPA	Subtest 2	20.58	20.35	19.99	21.00					
DC-USDPA	Subtest 3	20.53	19.98	20.25	21.00					
	Subtest 4	20.23	19.85	19.91	21.00					
HSPA+	16QAM	19.18	19.32	19.62	20.50					

WCDMA Band IV Body-worn&Handheld on								
Average Conducted Power(dBm)								
Channel		1312	1412	1513	Tune up			
MODMA	12.2kbps RMC	22.11	22.17	22.15	23.00			
WCDMA	12.2kbps AMR	22.08	22.16	22.13	23.00			
HSDPA	HSDPA Subtest 1 20.45 20.18 20.8 2							



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	Subtest 2	20.57	20.65	20.29	21.50
	Subtest 3	20.36	20.24	20.88	21.50
	Subtest 4	20.58	20.75	20.69	21.50
	Subtest 1	19.18	18.84	18.63	20.00
	Subtest 2	19.48	19.33	19.04	20.00
HSUPA	Subtest 3	19.87	19.83	19.84	21.00
	Subtest 4	18.8	18.09	18.39	19.50
	Subtest 5	20.29	20.03	20.09	21.00
	Subtest 1	20.52	20.58	20.82	21.50
DC HEDDA	Subtest 2	20.73	20.83	20.28	21.50
DC-HSDPA	Subtest 3	20.86	20.24	20.91	21.50
	Subtest 4	20.54	20	20.37	21.50
HSPA+	16QAM	19.97	19.81	19.89	21.00

	WCDMA Band V										
	Average Conducted Power(dBm)										
CI	hannel	4132	4182	4233	Tune up						
WCDMA	12.2kbps RMC	22.85	22.90	22.83	24.00						
WCDIVIA	12.2kbps AMR	22.83	22.87	22.81	24.00						
	Subtest 1	21.46	21.36	21.53	22.50						
HSDPA	Subtest 2	21.61	21.58	21.23	22.50						
HODPA	Subtest 3	21.39	21.62	20.96	22.50						
	Subtest 4	21.06	21.23	21.42	22.50						
	Subtest 1	20.04	20.34	19.83	21.00						
	Subtest 2	20.16	20.15	20.20	21.00						
HSUPA	Subtest 3	21.38	20.78	20.69	22.00						
	Subtest 4	19.55	19.57	19.72	20.50						
	Subtest 5	21.41	21.21	21.20	22.00						
	Subtest 1	21.65	21.53	21.67	22.50						
DC HEDDA	Subtest 2	21.79	21.24	21.67	22.50						
DC-HSDPA	Subtest 3	21.70	21.22	21.59	22.50						
	Subtest 4	21.71	21.22	21.21	22.50						
HSPA+	16QAM	20.74	20.65	20.62	22.00						

when the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.



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8.1.2 Conducted Power of LTE

	LTE Band 2	Full Power		Conducted Power(dBm)				
			55.55	Channel	Channel	Channel	_	
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up	
		1	0	23.41	23.42	23.21	24.50	
		1	2	23.23	23.27	23.35	24.50	
		1	5	23.16	23.42	23.32	24.50	
	QPSK	3	0	23.29	23.18	23.29	24.50	
		3	2	23.36	23.32	23.15	24.50	
		3	3	23.20	23.41	23.31	24.50	
		6	0	22.23	22.57	22.12	23.50	
		1	0	22.35	22.47	22.42	23.50	
		1	2	22.49	22.35	22.41	23.50	
		1	5	22.37	22.50	22.17	23.50	
1.4MHz	16QAM	3	0	22.31	22.31	22.37	23.50	
		3	2	22.25	22.69	22.18	23.50 23.50 22.50 22.50	
		3	3	22.47	22.13	22.36	23.50	
		6	0	21.23	21.38	21.09	22.50	
		1	0	21.27	21.52	21.58	22.50	
		1	2	21.49	21.24	21.50	24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 22.50 22.50 22.50 22.50 21.50 Tune up 24.50 24.50 24.50 23.50	
		1	5	21.32	21.46	21.46	22.50	
	64QAM	3	0	21.47	21.38	21.61	22.50	
		3	2	21.26	21.39	21.79	22.50	
		3	3	21.38	21.43	21.66	22.50	
		6	0	20.43	20.33	20.53	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18615	18900	19185		
		1	0	23.22	23.27	23.21		
		1	7	23.36	23.38	23.36		
		1	14	23.22	23.33	23.34	24.50	
	QPSK	8	0	22.57	22.23	22.28	23.50	
		8	4	22.38	22.26	22.53		
		8	7	22.53	22.40	22.34	23.50 23.50 23.50 23.50 23.50 23.50 22.50 22.50 22.50 22.50 22.50 21.50 Tune up 24.50 24.50 23.50	
		15	0	22.34	22.34	22.41		
		1	0	22.60	22.17	22.26		
		1	7	22.33	22.43	22.18		
3MHz		1	14	22.38	22.61	22.50	1	
	16QAM	8	0	21.02	21.40	21.16		
		8	4	21.27	21.65	21.39	24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 22.50 22.50 22.50 22.50 24.50 24.50 24.50 23.50	
		8	7	21.29	21.39	21.32	1	
		15	0	21.33	21.65	21.06		
		1	0	21.00	21.46	21.70		
		1	7	21.49	21.50	21.41		
	64QAM	1	14	21.37	21.55	21.30		
	0.50	8	0	20.40	20.58	20.44	1	
		8	4	20.11	20.45	20.68		
		8	7	20.13	20.43	20.85	21.50	



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	1	T .	_		<u> </u>	of 116	T
		15	0	20.41	20.52	20.36	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	Wiodulation	RD SIZE	RD onset	18625	18900	19175	Turie up
		1	0	23.11	23.41	23.23	24.50
		1	13	23.33	23.33	23.31	24.50
		1	24	23.29	23.08	23.33	24.50
	QPSK	12	0	22.46	22.56	22.58	23.50
		12	6	22.36	22.55	22.39	23.50
		12	13	22.23	22.24	22.52	Tune up 24.50 24.50 24.50 23.50
		25	0	22.18	22.52	22.40	
		1	0	22.38	22.46	22.07	
		1	13	22.39	22.40	22.31	
		1	24	22.27	22.55	22.12	
5MHz	16QAM	12	0	21.14	21.37	21.34	Tune up 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 22.50 22.50 22.50 22.50 21.50 21.50 21.50 24.50 23.50 23.50 23.50 21.50 21.50 21.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50 23.50
		12	6	21.41	21.55	21.14	
		12	13	21.43	21.04	21.08	
		25	0	21.56	21.65	21.23	
		1	0	21.10	21.25	21.48	
		1	13	21.05	21.46	21.35	
		1	24	21.40	21.57	21.31	
	64QAM	12	0	20.06	20.72	20.69	
		12	6	20.25	20.43	20.50	24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 22.50 22.50 22.50 22.50 21.50 21.50 21.50 21.50 21.50 21.50 23.50
		12	13	20.03	20.45	20.66	
		25	0	20.59	20.29	20.35	
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	23.28	23.29	23.16	24.50
		1	25	23.32	23.29	23.41	24.50
		1	49	23.14	23.42	23.17	
	QPSK	25	0	22.31	22.58	22.57	
		25	13	22.18	22.19	22.32	
		25	25	22.43	22.14	22.29	23.50
		50	0	22.43	22.18	22.26	23.50
		1	0	22.53	22.34	22.40	23.50
		1	25	22.74	22.31	22.04	
		1	49	22.46	22.79	22.39	23.50
10MHz	16QAM	25	0	21.07	21.29	21.14	
		25	13	21.45	21.55	21.26	22.50
		25	25	21.31	21.42	21.35	22.50
		50	0	21.47	21.69	21.27	22.50
		1	0	21.07	21.31	21.68	22.50
		1	25	21.15	21.29	21.38	
		1	49	21.51	21.46	21.61	
	64QAM	25	0	20.37	20.61	20.41	
		25	13	20.08	20.57	20.46	
		25	25	20.07	20.58	20.45	21.50
		50	0	20.64	20.29	20.70	21.50
D	NA. d. 1. C		DD " 1	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
451511	00014	1	0	23.14	23.11	23.18	24.50
15MHz	QPSK	1	38	23.28	23.28	23.27	24.50



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				Pa	age: 57	01 116	
		1	74	22.95	23.39	23.41	24.50
		36	0	22.27	22.53	22.18	23.50
		36	18	22.30	22.42	22.30	23.50
		36	39	22.50	22.29	22.07	23.50
		75	0	22.23	22.58	22.36	23.50
		1	0	22.28	22.56	22.50	23.50
		1	38	22.70	22.54	22.19	23.50
		1	74	22.53	22.82	22.33	23.50
	16QAM	36	0	21.06	21.35	21.32	22.50
		36	18	21.60	21.44	21.10	22.50
		36	39	21.29	21.11	21.12	22.50
		75	0	21.65	21.39	20.93	22.50
		1	0	21.08	21.30	21.61	22.50
		1	38	21.34	21.35	21.56	22.50
		1	74	21.44	21.26	21.38	22.50
	64QAM	36	0	20.05	20.52	20.35	21.50
		36	18	20.28	20.67	20.80	21.50
		36	39	20.10	20.51	20.40	21.50
		75	0	20.53	20.55	20.46	21.50
Daniel delle	NA - ded - 45 - co	DD -:	DD . #	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
	QPSK	1	0	23.31	23.34	23.28	24.50
		1	50	23.41	23.43	23.39	24.50
		1	99	23.18	23.22	23.21	24.50
		50	0	22.39	22.42	22.36	23.50
		50	25	22.38	22.41	22.33	23.50
		50	50	22.34	22.37	22.31	23.50
		100	0	22.39	22.41	22.36	23.50
		1	0	22.39	22.40	22.29	23.50
		1	50	22.53	22.32	22.27	23.50
		1	99	22.39	22.61	22.35	23.50
20MHz	16QAM	50	0	21.25	21.18	21.23	22.50
		50	25	21.38	21.56	21.29	22.50
		50	50	21.27	21.20	21.30	22.50
		100	0	21.43	21.48	21.16	22.50
		1	0	21.21	21.37	21.51	22.50
		1	50	21.28	21.37	21.53	22.50
		1	99	21.43	21.42	21.47	22.50
	64QAM	50	0	20.28	20.56	20.59	21.50
		50	25	20.27	20.48	20.59	21.50
		50	50	20.17	20.62	20.63	21.50
ı	1	100	0	20.64	20.52	20.50	21.50



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	LTE Band 2	Hotspot on		Conducted Power(dBm)				
				Channel	Channel	Channel	_	
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up	
		1	0	22.05	22.15	21.93	23.00	
		1	2	21.95	22.23	22.07	23.00	
		1	5	21.88	22.14	22.02	23.00	
	QPSK	3	0	21.95	21.90	21.94	23.00	
		3	2	22.05	21.99	21.86	23.00	
		3	3	21.83	22.14	22.03	23.00	
		6	0	21.93	22.20	21.78	23.00	
		1	0	22.02	22.13	22.08	23.00	
		1	2	22.14	22.02	22.09	23.00	
		1	5	22.09	22.21	21.87	23.00	
1.4MHz	16QAM	3	0	21.96	21.99	22.02	23.00 23.00 23.00 23.00 22.50	
		3	2	21.88	21.87	21.81	23.00	
		3	3	22.12	21.85	22.06	23.00	
		6	0	21.38	21.59	21.31	22.50	
		1	0	21.44	21.73	21.75	22.50	
		1	2	21.67	21.38	21.71	22.50	
		1	5	21.46	21.60	21.67	22.50	
	64QAM	3	0	21.68	21.58	21.76	22.50	
		3	2	21.46	21.53	22.00	22.50	
		3	3	21.60	21.59	21.86	22.50	
		6	0	20.56	20.50	20.71	21.50	
Dan duvidéla	Madridation	DD sine	DD effect	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	18615	18900	19185	Tune up	
		1	0	21.92	21.95	21.92	23.00	
		1	7	22.08	22.24	22.00	23.00	
		1	14	21.87	22.01	22.02	23.00	
	QPSK	8	0	22.23	21.93	22.01	23.00	
		8	4	22.05	21.90	22.17	23.00	
		8	7	22.20	22.04	22.04	23.00	
2841-		15	0	21.98	22.07	22.12	23.00	
3MHz		1	0	21.83	21.88	21.89	23.00	
		1	7	22.04	22.11	21.82	23.00	
		1	14	22.08	22.21	22.20	23.00	
	16QAM	8	0	21.17	21.62	21.34	22.50	
		8	4	21.43	21.81	21.54	22.50	
		8	7	21.49	21.55	21.45	22.50	
		15	0	21.50	21.79	21.28	22.50	



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	l		1		<u> </u>	01 116	4
		1	0	21.20	21.66	21.93	22.50
		1	7	21.67	21.67	21.58	22.50
		1	14	21.60	21.71	21.45	22.50
	64QAM	8	0	20.53	20.73	20.60	21.50
		8	4	20.34	20.64	20.88	21.50
		8	7	20.31	20.60	21.08	21.50
		15	0	20.59	20.72	20.53	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiatii	Modulation	ND SIZE	IND Oliset	18625	18900	19175	rune up
		1	0	21.83	22.06	21.92	23.00
		1	13	22.03	22.23	21.96	23.00
		1	24	21.93	21.80	22.02	23.00
	QPSK	12	0	22.12	22.21	22.21	23.00
		12	6	22.00	22.12	22.05	23.00
		12	13	21.96	21.89	22.20	23.00
		25	0	21.82	22.21	22.08	23.00
		1	0	22.06	22.13	21.75	23.00
		1	13	22.04	22.12	22.04	23.00
	16QAM	1	24	21.96	22.19	21.82	23.00
5MHz		12	0	21.36	21.51	21.48	22.50
		12	6	21.57	21.78	21.35	22.50
		12	13	21.63	21.24	21.26	22.50
		25	0	21.79	21.82	21.43	22.50
		1	0	21.24	21.44	21.63	22.50
		1	13	21.27	21.63	21.56	22.50
		1	24	21.57	21.71	21.50	22.50
	64QAM	12	0	20.25	20.86	20.91	21.50
		12	6	20.43	20.62	20.66	21.50
		12	13	20.23	20.67	20.80	21.50
		25	0	20.73	20.43	20.50	21.50
D	M. J.J. C	DD :	DD " 1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	21.93	22.01	21.83	23.00
		1	25	22.01	22.28	22.11	23.00
		1	49	21.86	22.10	21.86	23.00
	QPSK	25	0	21.94	22.21	22.24	23.00
10MHz		25	13	21.89	21.89	21.98	23.00
		25	25	22.15	21.81	21.96	23.00
		50	0	22.12	21.83	21.95	23.00
		1	0	22.17	22.04	22.11	23.00
	400	1	25	22.04	22.02	21.68	23.00
	16QAM	1	49	22.18	22.13	22.08	23.00
		25	0	21.30	21.45	21.31	22.50



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		25	13	21.60	21.73	21.43	22.50
		25	25	21.53	21.56	21.52	22.50
		50	0	21.61	21.82	21.40	22.50
		1	0	21.29	21.49	21.82	22.50
		1	25	21.37	21.50	21.58	22.50
		1	49	21.65	21.65	21.77	22.50
	64QAM	25	0	20.52	20.75	20.63	21.50
		25	13	20.29	20.73	20.62	21.50
		25	25	20.28	20.79	20.64	21.50
		50	0	20.83	20.43	20.88	21.50
5		55 :	DD (1)	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	21.82	21.80	21.90	23.00
		1	38	21.93	22.27	21.90	23.00
		1	74	21.61	22.05	22.10	23.00
	QPSK	36	0	21.98	22.24	21.85	23.00
		36	18	21.93	22.12	21.99	23.00
		36	39	22.22	22.02	21.74	23.00
		75	0	21.95	22.25	22.06	23.00
		1	0	21.92	22.24	22.13	23.00
		1	38	22.15	22.23	21.90	23.00
		1	74	22.21	22.12	22.06	23.00
15MHz	16QAM	36	0	21.25	21.48	21.54	22.50
		36	18	21.75	21.61	21.25	22.50
		36	39	21.45	21.29	21.27	22.50
		75	0	21.80	21.62	21.08	22.50
		1	0	21.26	21.52	21.76	22.50
		1	38	21.50	21.52	21.73	22.50
		1	74	21.59	21.45	21.51	22.50
	64QAM	36	0	20.25	20.67	20.54	21.50
		36	18	20.51	20.82	20.97	21.50
		36	39	20.26	20.69	20.53	21.50
		75	0	20.74	20.75	20.67	21.50
			55.66	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
		1	0	22.16	22.21	22.13	23.00
		1	50	22.29	22.36	22.31	23.00
		1	99	22.05	22.09	22.06	23.00
0015::	QPSK	50	0	22.12	22.14	22.06	23.00
20MHz		50	25	22.09	22.12	22.00	23.00
		50	50	21.99	22.05	21.98	23.00
		100	0	22.02	22.08	22.06	23.00
	16QAM	1	0	22.05	22.11	21.95	23.00
Bandwidth 20MHz	Modulation QPSK	36 75 1 1 1 36 36 36 36 75 RB size 1 1 1 50 50 50 100	0 0 38 74 0 18 39 0 RB offset 0 50 99 0 25 50	21.45 21.80 21.26 21.50 21.59 20.25 20.51 20.26 20.74 Channel 18700 22.16 22.29 22.05 22.12 22.09 21.99 22.02	21.62 21.52 21.52 21.45 20.67 20.82 20.69 20.75 Channel 18900 22.21 22.36 22.09 22.14 22.12 22.05 22.08	21.27 21.08 21.76 21.73 21.51 20.54 20.97 20.53 20.67 Channel 19100 22.13 22.31 22.06 22.06 21.98 22.06	22.50 22.50 22.50 22.50 22.50 21.50



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	1	50	22.22	21.96	21.97	23.00
	1	99	22.12	22.27	22.03	23.00
	50	0	21.39	21.36	21.37	22.50
	50	25	21.61	21.77	21.44	22.50
	50	50	21.44	21.38	21.49	22.50
	100	0	21.61	21.68	21.37	22.50
	1	0	21.42	21.54	21.67	22.50
	1	50	21.41	21.52	21.73	22.50
	1	99	21.63	21.62	21.62	22.50
64QAM	50	0	20.51	20.74	20.76	21.50
	50	25	20.46	20.63	20.76	21.50
	50	50	20.36	20.85	20.86	21.50
	100	0	20.85	20.75	20.71	21.50

	LTE Band 4	Full Power		Conducted Power(dBm)				
Donada ai déb	Madulation	DD size	RB offset	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	Rb oliset	19957	20175	20393	Tune up	
		1	0	23.31	23.55	23.33	24.50	
		1	2	23.38	23.43	23.46	24.50	
		1	5	23.21	22.92	23.24	24.50	
	QPSK	3	0	23.22	23.47	23.42	24.50	
		3	2	23.31	23.21	23.24	24.50	
		3	3	23.27	23.25	23.09	24.50	
		6	0	22.34	22.20	22.36	23.50	
		1	0	22.01	22.40	22.30	23.50	
1.4MHz	16QAM	1	2	21.86	22.34	21.77	23.50	
		1	5	21.79	22.16	22.00	23.50	
		3	0	21.96	22.77	22.48	23.50	
		3	2	22.18	22.07	22.28	23.50	
		3	3	21.90	22.63	22.00	23.50	
		6	0	21.19	21.29	21.33	22.50	
		1	0	21.49	21.43	21.30	22.50	
		1	2	21.15	21.10	21.26	22.50	
		1	5	21.04	21.44	20.67	22.50	
	64QAM	3	0	21.31	21.72	21.37	22.50	
		3	2	21.20	21.77	21.45	22.50	
		3	3	20.85	21.36	21.49	22.50	
		6	0	20.38	20.42	20.29	21.50	
D 1 1 - 14*	Madalatia	DD view	DD effect	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up	
		1	0	23.41	23.13	23.23	24.50	
		1	7	23.28	23.26	23.39	24.50	
3MHz	OPSK	1	14	23.10	22.90	23.21	24.50	
SIVIMZ	QP5K	8	0	22.51	22.63	22.23	23.50	
		8	4	22.55	22.19	22.15	23.50	
		8	7	22.17	22.21	22.36	23.50	



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		T	_	Pa	<u>ige: 62</u>	of 116	
		15	0	21.98	22.32	22.05	23.50
	-	1	0	21.75	22.24	22.05	23.50
		1	7	22.50	22.03	22.25	23.50
		1	14	22.10	22.10	21.89	23.50
	16QAM	8	0	21.28	21.20	21.26	22.50
		8	4	21.12	21.02	21.47	22.50
		8	7	21.32	21.22	21.35	22.50
		15	0	21.23	20.62	21.06	22.50
		1	0	21.25	20.87	21.27	22.50
		1	7	20.96	21.01	20.92	22.50
		1	14	21.13	20.74	20.86	22.50
	64QAM	8	0	19.98	20.26	20.56	21.50
		8	4	20.11	20.25	20.54	21.50
		8	7	20.01	20.24	20.20	21.50
		15	0	20.12	19.51	19.78	21.50
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	23.21	23.44	23.11	24.50
		1	13	23.25	23.54	23.41	24.50
		1	24	23.17	23.07	22.93	24.50
	QPSK	12	0	22.47	22.26	22.44	23.50
		12	6	22.39	22.43	22.36	23.50
		12	13	22.13	22.45	22.35	23.50
		25	0	22.13	22.16	22.16	23.50
		1	0	22.23	22.24	22.04	23.50
		1	13	21.98	22.07	21.90	23.50
		1	24	21.74	21.98	21.76	23.50
5MHz	16QAM	12	0	21.66	21.35	21.49	22.50
		12	6	21.25	21.86	21.04	22.50
		12	13	21.18	21.12	20.81	22.50
		25	0	20.96	21.07	20.96	22.50
		1	0	21.01	21.08	21.67	22.50
		1	13	21.43	21.40	20.95	22.50
		1	24	20.77	21.06	20.63	22.50
	64QAM	12	0	20.03	20.10	20.22	21.50
		12	6	20.30	20.54	20.58	21.50
		12	13	20.75	20.79	20.05	21.50
		25	0	19.86	19.97	19.79	21.50
Randwidth	Modulation	DR size	RB offset	Channel	Channel	Channel	Tung up
Bandwidth	Modulation	RB size	RD OIISEL	20000	20175	20350	Tune up
		1	0	23.16	23.35	23.45	24.50
		1	25	23.47	23.57	23.27	24.50
		1	49	22.77	22.95	22.92	24.50
	QPSK	25	0	22.20	22.51	22.17	23.50
		25	13	22.42	22.61	22.02	23.50
10MHz		25	25	22.31	22.19	22.01	23.50
		50	0	22.31	22.57	22.45	23.50
		1	0	22.04	22.20	21.72	23.50
	100 4 5 4	1	25	22.06	22.20	21.92	23.50
	16QAM	1	49	21.84	21.92	22.31	23.50
		25	0	21.25	21.55	21.39	22.50



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		25	13	21.38	21.03	21.28	22.50
		25	25	21.03	21.40	20.93	22.50
		50	0	21.06	20.92	21.16	22.50
		1	0	20.99	21.44	20.81	22.50
		1	25	21.23	20.60	21.24	22.50
		1	49	20.99	20.97	20.64	22.50
	64QAM	25	0	20.24	20.33	20.48	21.50
		25	13	20.16	21.09	20.20	21.50
		25	25	20.24	19.82	20.06	21.50
		50	0	20.41	20.28	19.76	21.50
Donduvidth	Madulation	DD size	RB offset	Channel	Channel	Channel	Tuna un
Bandwidth	Modulation	RB size	RD ollset	20025	20175	20325	Tune up
		1	0	23.09	23.38	23.48	24.50
		1	38	23.45	23.57	23.53	24.50
		1	74	23.10	23.31	23.20	24.50
	QPSK	36	0	22.55	22.48	22.32	23.50
		36	18	22.54	22.47	22.22	23.50
		36	39	22.13	22.24	22.05	23.50
		75	0	21.93	22.23	22.43	23.50
		1	0	22.53	22.58	21.97	23.50
		1	38	22.03	21.89	21.79	23.50
		1	74	22.02	22.05	21.81	23.50
15MHz	16QAM	36	0	21.09	21.37	21.40	22.50
		36	18	21.56	21.55	21.00	22.50
		36	39	21.23	21.17	21.34	22.50
		75	0	21.41	21.23	20.81	22.50
		1	0	20.87	21.32	21.36	22.50
		1	38	21.60	21.58	20.57	22.50
		1	74	21.39	21.17	20.95	22.50
	64QAM	36	0	20.30	20.13	19.89	21.50
		36	18	20.28	20.02	20.43	21.50
		36	39	20.81	20.27	20.00	21.50
		75	0	20.24	20.33	20.22	21.50
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	23.53	23.57	23.52	24.50
		1	50	23.65	23.67	23.62	24.50
		1	99	23.22	23.35	23.28	24.50
	QPSK	50	0	22.62	22.64	22.57	23.50
	ζ. σ. τ	50	25	22.59	22.63	22.47	23.50
		50	50	22.33	22.54	22.38	23.50
		100	0	22.37	22.58	22.49	23.50
		1	0	22.19	22.43	22.18	23.50
20MHz		1	50	22.17	22.24	22.39	23.50
		1	99	21.98	22.36	22.19	23.50
	16QAM	50	0	21.48	21.56	21.57	22.50
	IOQAW	50	25	21.55	21.59	21.13	22.50
		50	50	21.45	21.29	21.46	22.50
		100	0	21.45	21.38	21.49	22.50
		100	0		1		
	64QAM		1	21.31	21.29	21.33	22.50
	<u> </u>	1	50	21.43	21.22	20.80	22.50



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	1	99	21.19	20.95	21.09	22.50
	50	0	20.30	20.54	20.47	21.50
	50	25	20.36	20.40	20.40	21.50
	50	50	20.50	20.43	20.00	21.50
	100	0	20.53	20.04	20.16	21.50

LTE Bar	nd 4 Hotspot on&	Body-worn&Han	dheld on		Conducted	Power(dBm)	
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up
		1	0	21.18	21.29	21.28	22.50
		1	2	21.39	21.45	21.40	22.50
		1	5	21.05	20.73	21.05	22.50
	QPSK	3	0	21.14	21.11	21.12	22.50
		3	2	21.23	21.39	21.11	22.50
		3	3	21.09	21.28	21.23	22.50
		6	0	21.13	21.14	21.38	22.50
		1	0	20.91	21.15	21.12	22.50
		1	2	20.71	21.16	20.70	22.50
		1	5	20.89	20.97	21.04	22.50
1.4MHz	16QAM	3	0	20.80	21.18	21.35	22.50
		3	2	21.33	21.18	21.37	22.50
		3	3	21.03	21.16	21.19	22.50
		6	0	21.01	21.04	21.21	22.50
		1	0	21.16	21.07	21.19	22.50
	64QAM	1	2	20.98	20.97	21.15	22.50
		1	5	20.91	21.37	20.77	22.50
		3	0	20.89	21.39	21.27	22.50
		3	2	21.30	21.16	21.25	22.50
		3	3	20.80	21.23	21.13	22.50
		6	0	20.40	20.28	20.14	21.50
Don duvidéh	Madulation	DD circ	RB offset	Channel	Channel	Channel	Tuna un
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	21.31	21.43	21.34	22.50
		1	7	21.58	21.61	21.46	22.50
		1	14	20.94	21.07	20.97	22.50
	QPSK	8	0	21.41	21.54	21.38	22.50
		8	4	21.20	21.32	21.31	22.50
		8	7	21.08	21.44	21.20	22.50
		15	0	21.06	21.48	21.21	22.50
3MHz		1	0	21.05	21.08	20.89	22.50
SIVITIZ		1	7	21.02	21.15	21.22	22.50
		1	14	20.77	21.19	20.99	22.50
	16QAM	8	0	21.13	21.48	21.29	22.50
		8	4	21.22	21.46	21.07	22.50
		8	7	21.29	21.11	21.13	22.50
		15	0	20.83	20.98	21.14	22.50
	64QAM	1	0	20.99	20.89	20.98	22.50
	U4QAIVI	1	7	21.17	21.17	20.76	22.50



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		1	14	21.04	20.75	20.87	22.50
		8	0	20.13	20.25	20.23	21.50
		8	4	20.26	20.22	20.36	21.50
		8	7	20.29	20.28	19.60	21.50
		15	0	20.34	19.82	20.10	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
		1	0	21.41	21.41	21.14	22.50
		1	13	21.34	21.61	21.52	22.50
		1	24	20.98	21.06	21.10	22.50
	QPSK	12	0	21.42	21.38	21.31	22.50
		12	6	21.37	21.31	21.42	22.50
		12	13	20.95	21.38	21.13	22.50
		25	0	21.08	21.31	21.17	22.50
		1	0	20.85	21.04	20.90	22.50
		1	13	20.96	20.91	21.32	22.50
		1	24	20.89	20.95	20.91	22.50
5MHz	16QAM	12	0	21.25	21.29	21.25	22.50
		12	6	21.29	21.31	21.03	22.50
		12	13	21.15	21.15	21.04	22.50
		25	0	20.95	21.22	21.22	22.50
		1	0	21.07	21.15	21.15	22.50
		1	13	21.26	21.05	20.51	22.50
		1	24	20.77	20.78	21.03	22.50
	64QAM	12	0	20.23	20.26	20.20	21.50
		12	6	20.12	20.36	20.06	21.50
		12	13	20.14	20.21	19.89	21.50
		25	0	20.34	19.94	19.77	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	20.50
		1	0	21.24	21.46	21.48	22.50
		1	25	21.29	21.60	21.38	22.50
	0.001	1	49	20.92	20.95	21.19	22.50
	QPSK	25	0	21.41	21.34	21.20	22.50
		25	13	21.18	21.39	21.24	22.50
		25	25	21.08	21.24	21.14	22.50
		50	0	21.02	21.24	21.45	22.50
		1	0	20.91	21.15	20.80	22.50
		1	25	20.86	20.83	21.24	22.50
		1	49	20.68	20.96	20.88	22.50
10MHz	16QAM	25	0	21.23	21.22	21.17	22.50
		25	13	21.35	21.40	21.09	22.50
		25	25	21.40	21.18	21.19	22.50
		50	0	20.96	21.18	21.15	22.50
		1	0	20.97	20.93	21.05	22.50
		1	25	21.10	20.91	20.59	22.50
		1	49	21.03	20.77	20.98	22.50
	64QAM	25	0	20.02	20.30	20.30	21.50
		25	13	20.19	20.12	20.22	21.50
		25	25	20.29	20.05	19.81	21.50
		50	0	20.25	19.71	19.91	21.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up			
Banawiani	Wodulation	ND 3IZC	NB onset	20025	20175	20325	rune up			
		1	0	21.49	21.40	21.44	22.50			
		1	38	21.55	21.59	21.47	22.50			
		1	74	21.05	21.09	21.20	22.50			
	QPSK	36	0	21.42	21.48	21.38	22.50			
		36	18	21.23	21.22	21.31	22.50			
		36	39	21.12	21.30	21.24	22.50			
		75	0	21.20	21.32	21.31	22.50			
		1	0	20.77	21.33	21.03	22.50			
		1	38	21.01	21.03	21.14	22.50			
		1	74	21.26	21.28	21.23	22.50			
15MHz	16QAM	36	0	21.34	21.30	21.33	22.50			
		36	18	21.49	21.25	21.29	22.50			
		36	39	21.38	21.18	21.16	22.50			
		75	0	21.07	21.02	21.13	22.50			
		1	0	21.29	21.28	21.26	22.50			
		1	38	21.39	21.39	21.36	22.50			
	64QAM	1	74	21.39	21.33	21.35	22.50			
		36	0	19.90	20.12	20.14	21.50			
		36	18	20.20	20.00	20.03	21.50			
		36	39	20.13	20.08	19.64	21.50			
		75	0	20.17	19.96	19.81	21.50			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up			
Bandwidth	Modulation	ND SIZE	ND offset	20050	20175	20300	rune up			
		1	0	21.19	21.40	21.25	22.50			
		1	50	21.51	21.62	21.50	22.50			
		1	99	20.93	21.26	21.15	22.50			
	QPSK	50	0	21.42	21.44	21.41	22.50			
		50	25	21.43	21.22	21.08	22.50			
		50	50	21.34	21.35	21.33	22.50			
		100	0	21.27	21.38	21.35	22.50			
		1	0	20.89	20.88	20.89	22.50			
20MU-		1	50	20.75	20.72	20.81	22.50			
20MHz		1	99	20.68	20.75	20.59	22.50			
	16QAM	50	0	21.10	21.37	21.46	22.50			
		50	25	21.16	21.19	21.23	22.50			
		50	50	21.11	21.18	21.35	22.50			
		100	0	21.06	21.08	21.18	22.50			
		1	0	21.01	21.19	20.95	22.50			
	64000	1	50	21.30	20.93	20.61	22.50			
	64QAM	1	99	20.88	20.73	21.04	22.50			
		50	0	19.97	20.24	20.11	21.50			



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	50	0.5	00.00	00.40	00.45	04.50
	50	25	20.09	20.18	20.15	21.50
	50	50	20.14	20.10	20.07	21.50
	100	0	20.05	20.11	20.04	21.50

	LTE Band 5	Full Power			Conducted	Power(dBm)	
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20407	20525	20643	Tune up
		1	0	23.32	23.51	23.44	25.00
		1	2	23.66	23.55	23.50	25.00
		1	5	23.55	23.39	23.53	25.00
	QPSK	3	0	23.02	23.44	23.48	25.00
		3	2	23.25	23.58	23.62	25.00
		3	3	23.33	23.34	23.59	25.00
		6	0	22.56	22.30	22.25	24.00
		1	0	22.78	22.43	22.58	24.00
		1	2	22.88	22.89	22.44	24.00
		1	5	22.64	22.64	22.71	24.00
1.4MHz	1.4MHz 16QAM	3	0	22.64	22.65	22.29	24.00
		3	2	22.24	22.43	22.49	24.00
		3	3	22.59	22.56	22.69	24.00
		6	0	21.73	21.54	21.82	23.00
		1	0	21.38	21.62	21.57	23.00
	64QAM	1	2	21.84	22.13	21.53	23.00
		1	5	21.67	21.53	21.41	23.00
		3	0	21.52	21.83	21.78	23.00
		3	2	21.89	21.51	21.83	23.00
		3	3	21.59	21.52	21.83	23.00
		6	0	20.50	20.87	20.47	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwiutii	Wodulation	ND SIZE	ND onset	20415	20525	20635	Tune up
		1	0	23.31	23.57	23.35	25.00
		1	7	23.57	23.59	23.37	25.00
		1	14	23.37	23.25	23.31	25.00
	QPSK	8	0	22.37	22.47	22.34	24.00
		8	4	22.24	22.68	22.35	24.00
		8	7	22.57	22.70	22.30	24.00
		15	0	22.51	22.60	22.28	24.00
		1	0	22.80	22.41	22.36	24.00
3MHz		1	7	22.52	22.74	22.61	24.00
JIVII IZ		1	14	22.63	22.31	22.29	24.00
	16QAM	8	0	21.50	21.76	21.36	23.00
		8	4	21.39	21.51	21.26	23.00
		8	7	21.42	21.77	21.61	23.00
		15	0	21.34	21.47	21.78	23.00
		1	0	21.60	21.27	21.66	23.00
	64QAM	1	7	21.81	22.32	21.82	23.00
	04QAW	1	14	21.57	21.61	21.52	23.00
		8	0	20.82	20.82	20.85	22.00



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		8	4	20.51	20.82	20.60	22.00		
		8	7	20.63	20.53	20.86	22.00		
		15	0	20.44	20.53	20.59	22.00		
D a m alvertial the	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
Bandwidth	Wodulation	RD SIZE	Rb oliset	20425	20525	20625	Turie up		
		1	0	23.31	23.52	23.59	25.00		
		1	13	23.73	23.52	23.49	25.00		
		1	24	23.20	23.49	23.52	25.00		
	QPSK	12	0	22.43	22.48	22.37	24.00		
		12	6	22.32	22.71	22.55	24.00		
		12	13	22.63	22.57	22.50	24.00		
		25	0	22.40	22.27	22.34	24.00		
		1	0	22.60	22.27	22.45	24.00		
		1	13	22.55	22.76	22.57	24.00		
		1	24	22.41	22.44	22.47	24.00		
5MHz	16QAM	12	0	21.85	21.89	21.43	23.00		
		12	6	21.28	21.80	21.51	23.00		
		12	13	21.24	21.62	21.44	23.00		
		25	0	21.61	21.64	21.89	23.00		
		1	0	21.29	21.43	21.50	23.00		
		1	13	22.01	22.12	21.70	23.00		
		1	24	21.57	21.73	21.45	23.00		
	64QAM	12	0	20.50	20.63	20.80	22.00		
		12	6	20.72	20.40	20.86	22.00		
		12	13	20.89	20.64	20.57	22.00		
		25	0	20.48	20.60	20.56	22.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
Danuwiutii	Wodulation	ND SIZE	ND onset	20450	20525	20600	rune up		
		1	0	23.71	23.73	23.68	25.00		
	QPSK	1	25	23.76	23.78	23.71	25.00		
		1	49	23.63	23.65	23.59	25.00		
		25	0	22.67	22.74	22.71	24.00		
		25	13	22.69	22.76	22.72	24.00		
		25	25	22.73	22.75	22.68	24.00		
		50	0	22.66	22.72	22.69	24.00		
	16QAM	1	0	22.85	22.71	22.62	24.00		
		1	25	22.97	23.03	22.77	24.00		
		1	49	22.71	22.76	22.72	24.00		
10MHz		25	0	21.95	21.99	21.61	23.00		
		25	13	21.67	21.85	21.64	23.00		
		25	25	21.68	21.86	21.77	23.00		
		50	0	21.78	21.84	21.99	23.00		
	64QAM	1	0	21.74	21.67	21.67	23.00		
		1	25	22.05	22.34	21.88	23.00		
		1	49	21.98	21.82	21.76	23.00		
		25	0	20.89	20.99	20.92	22.00		
		25	13	20.95	20.83	20.96	22.00		
		25	25	20.94	20.86	20.91	22.00		
		50	0	20.75	20.90	20.87	22.00		



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LTE Band 7 Full Power				Conducted Power(dBm)				
				Channel	Channel	Channel	_	
Bandwidth	Modulation	RB size	RB offset	20775	21100	21425	Tune up	
		1	0	22.64	22.76	22.46	24.00	
		1	13	22.88	22.95	22.94	24.00	
		1	24	22.53	22.87	22.81	24.00	
	QPSK	12	0	21.63	21.81	21.81	23.00	
		12	6	21.51	21.84	21.60	23.00	
		12	13	21.66	21.58	21.45	23.00	
		25	0	21.87	21.78	21.53	23.00	
		1	0	21.77	21.61	21.57	23.00	
		1	13	21.35	21.82	21.96	23.00	
		1	24	21.15	21.82	21.87	23.00	
5MHz	16QAM	12	0	20.53	20.70	20.73	22.00	
		12	6	20.42	20.86	20.61	22.00	
		12	13	20.49	20.66	20.49	22.00	
		25	0	20.64	20.92	20.60	22.00	
		1	0	20.26	20.69	20.12	22.00	
		1	13	20.47	21.21	20.83	22.00	
		1	24	20.25	20.81	20.69	22.00	
	64QAM	12	0	19.36	19.30	19.58	21.00	
		12	6	19.45	19.67	19.83	21.00	
		12	13	19.79	19.96	19.42	21.00	
		25	0	19.36	19.65	19.47	21.00	
Dan duvidéh	Modulation	RB size	RB offset	Channel	Channel	Channel	Tunaun	
Bandwidth				20800	21100	21400	Tune up	
		1	0	22.30	22.55	22.55	24.00	
		1	25	22.62	22.70	22.60	24.00	
		1	49	22.50	22.49	22.56	24.00	
	QPSK	25	0	21.63	21.95	21.49	23.00	
		25	13	21.74	21.98	21.54	23.00	
		25	25	21.63	21.52	21.74	23.00	
		50	0	21.49	21.74	21.91	23.00	
	16QAM	1	0	21.61	21.76	21.16	23.00	
		1	25	21.36	22.08	22.17	23.00	
		1	49	21.40	21.59	21.61	23.00	
10MHz		25	0	20.56	20.62	20.84	22.00	
		25	13	20.45	20.67	20.39	22.00	
		25	25	20.75	21.08	20.55	22.00	
		50	0	20.40	20.90	20.70	22.00	
		1	0	20.47	20.69	20.17	22.00	
	64QAM	1	25	20.27	21.00	20.50	22.00	
		1	49	20.43	20.74	20.49	22.00	
		25	0	19.76	19.42	19.80	21.00	
		25	13	19.40	19.88	19.93	21.00	
		25	25	19.68	19.92	19.48	21.00	
		50	0	19.18	19.73	19.66	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	



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				20825	21100	21375	
		1	0	22.71	22.71	22.58	24.00
		1	38	22.60	22.70	22.68	24.00
		1	74	22.36	22.80	22.47	24.00
	QPSK	36	0	21.60	22.02	21.87	23.00
		36	18	21.64	21.63	21.92	23.00
		36	39	21.44	21.47	21.37	23.00
		75	0	21.62	21.57	21.82	23.00
		1	0	21.50	21.59	21.21	23.00
		1	38	21.30	21.84	21.99	23.00
		1	74	21.58	21.95	21.77	23.00
15MHz	16QAM	36	0	20.96	20.50	20.80	22.00
		36	18	20.35	20.64	20.75	22.00
		36	39	20.72	20.65	20.51	22.00
		75	0	20.50	20.52	20.79	22.00
		1	0	20.57	20.70	20.21	22.00
		1	38	20.51	20.95	20.86	22.00
		1	74	20.31	20.81	20.75	22.00
	64QAM	36	0	19.78	19.19	19.78	21.00
		36	18	19.44	19.45	19.64	21.00
		36	39	19.54	20.17	19.28	21.00
		75	0	19.35	19.85	19.77	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwiutii	Modulation	ND Size	ND oliset	20850	21100	21350	Turie up
		1	0	22.71	22.76	22.74	24.00
		1	50	22.94	22.95	22.91	24.00
		1	99	22.76	22.79	22.73	24.00
	QPSK	50	0	21.88	21.93	21.89	23.00
		50	25	21.89	21.95	21.93	23.00
		50	50	21.67	21.86	21.77	23.00
		100	0	21.83	21.92	21.89	23.00
	16QAM	1	0	21.89	21.91	21.51	23.00
		1	50	21.67	22.13	22.13	23.00
		1	99	21.51	21.96	21.86	23.00
20MHz		50	0	20.90	20.69	20.91	22.00
		50	25	20.75	20.86	20.73	22.00
		50	50	20.75	21.02	20.82	22.00
		100	0	20.65	20.93	20.79	22.00
		1	0	20.62	20.82	20.38	22.00
		1	50	20.47	21.32	20.86	22.00
		1	99	20.46	20.92	20.74	22.00
	64QAM	50	0	19.72	19.54	19.89	21.00
		50	25	19.49	19.82	19.85	21.00
		50	50	19.94	20.13	19.59	21.00
							21.00



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LTE FDD Band 12 Full Power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23017	23095	23173		
		1	0	23.34	23.61	23.51	25.00	
		1	2	23.35	23.61	23.78	25.00	
		1	5	23.30	23.33	23.59	25.00	
	QPSK	3	0	23.38	23.48	23.46	25.00	
		3	2	23.59	23.69	23.44	25.00	
		3	3	23.39	23.39	23.51	25.00	
		6	0	22.37	22.55	22.67	24.00	
		1	0	22.47	22.42	22.62	24.00	
		1	2	22.32	22.64	22.29	24.00	
		1	5	22.63	22.60	22.55	24.00	
1.4MHz	16QAM	3	0	22.80	22.47	22.88	24.00	
		3	2	22.83	23.05	22.50	24.00	
		3	3	22.73	22.29	22.28	24.00	
		6	0	21.62	21.46	21.74	23.00	
		1	0	21.96	21.27	21.91	23.00	
		1	2	21.78	21.56	21.33	23.00	
		1	5	21.92	21.56	21.83	23.00	
	64QAM	3	0	22.12	21.91	21.97	23.00	
		3	2	21.61	22.02	21.79	23.00	
		3	3	21.69	21.52	21.41	23.00	
		6	0	20.49	20.73	21.07	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Balluwiutii	Modulation	ND SIZE	ND onset	23025	23095	23165	Turie up	
		1	0	23.21	23.43	23.21	25.00	
		1	7	23.82	23.62	23.52	25.00	
		1	14	23.30	23.74	23.57	25.00	
	QPSK	8	0	22.62	22.59	22.55	24.00	
		8	4	22.74	22.44	22.41	24.00	
		8	7	22.81	22.80	22.84	24.00	
		15	0	22.39	22.68	22.66	24.00	
	16QAM	1	0	22.65	22.23	22.88	24.00	
		1	7	22.41	22.77	22.37	24.00	
		1	14	22.76	22.58	22.55	24.00	
ЗМНZ		8	0	21.91	21.71	21.62	23.00	
		8	4	21.58	22.15	21.71	23.00	
		8	7	21.75	21.42	21.32	23.00	
		15	0	21.49	21.43	22.04	23.00	
	64QAM	1	0	21.63	21.21	21.85	23.00	
		1	7	21.42	21.63	21.72	23.00	
		1	14	22.01	21.36	21.82	23.00	
		8	0	20.94	20.85	20.67	22.00	
		8	4	20.56	21.14	21.00	22.00	
		8	7	20.52	20.40	20.51	22.00	
		15	0	20.74	20.90	20.86	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
E14: 1	OPOL	4		23035	23095	23155		
5MHz	QPSK	1	0	23.62	23.64	23.57	25.00	



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	,		1	F6	age: 72	01 116	T
		1	13	23.53	23.69	23.45	25.00
		1	24	23.44	23.56	23.67	25.00
		12	0	22.46	22.50	22.77	24.00
		12	6	22.51	22.51	22.61	24.00
		12	13	22.42	22.80	22.70	24.00
		25	0	22.85	22.73	22.65	24.00
		1	0	22.34	22.69	22.54	24.00
		1	13	22.44	22.98	22.58	24.00
		1	24	22.63	22.39	22.45	24.00
	16QAM	12	0	21.71	21.60	21.70	23.00
		12	6	21.95	22.08	21.93	23.00
		12	13	21.46	21.73	21.52	23.00
		25	0	21.76	21.82	21.94	23.00
		1	0	21.73	21.17	21.72	23.00
		1	13	21.44	21.78	21.43	23.00
		1	24	22.02	21.60	21.52	23.00
	64QAM	12	0	20.78	20.70	20.66	22.00
		12	6	20.79	21.23	20.68	22.00
		12	13	20.65	20.63	20.52	22.00
		25	0	20.62	20.73	20.75	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwiutii				23060	23095	23130	
		1	0	23.71	23.73	23.69	25.00
		1	25	23.84	23.91	23.82	25.00
		1	49	23.73	23.76	23.72	25.00
	QPSK	25	0	22.93	22.94	22.91	24.00
		25	13	22.87	22.91	22.89	24.00
		25	25	22.89	22.91	22.86	24.00
		50	0	22.86	22.92	22.87	24.00
	16QAM	1	0	22.73	22.70	22.98	24.00
		1	25	22.79	23.00	22.78	24.00
		1	49	23.03	22.73	22.64	24.00
10MHz		25	0	22.06	21.83	21.99	23.00
		25	13	21.98	22.24	21.97	23.00
		25	25	21.85	21.79	21.74	23.00
		50	0	21.93	21.86	22.11	23.00
	64QAM	1	0	21.99	21.55	22.06	23.00
		1	25	21.88	22.04	21.77	23.00
		1	49	22.21	21.67	21.84	23.00
		25	0	21.20	21.05	21.07	22.00
		25	13	21.06	21.41	21.06	22.00
		25	25	20.73	20.76	20.83	22.00
		50	0	20.86	21.09	21.08	22.00



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	LTE FDD Band	14 Full Power			Conducted I	Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				23305	23330	23355			
		1	0	23.56	23.60	23.58	25.00		
		1	13	23.72	23.73	23.67	25.00		
		1	24	23.51	23.56	23.47	25.00		
	QPSK	12	0	23.68	22.78	23.71	24.00		
		12	6	22.78	22.83	22.68	24.00		
		12	13	22.69	22.74	22.71	24.00		
		25	0	22.72	22.76	22.73	24.00		
		1	0	22.69	22.76	22.79	24.00		
		1	13	22.82	22.60	22.57	24.00		
		1	24	22.41	22.70	22.52	24.00		
5MHz	16QAM	12	0	22.80	22.03	22.60	23.00		
		12	6	21.90	21.69	21.65	23.00		
		12	13	21.66	21.60	21.85	23.00		
		25	0	21.85	21.79	21.68	23.00		
		1	0	21.69	21.84	21.81	23.00		
		1	13	21.78	21.52	21.76	23.00		
		1	24	21.51	21.88	21.56	23.00		
	64QAM	12	0	21.79	21.21	21.88	22.00		
		12	6	20.98	20.87	20.51	22.00		
		12	13	20.60	20.43	20.80	22.00		
		25	0	21.00	20.88	20.68	22.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
- Danamati	Woddiation			/	23330	1			
		1	0	1	23.71	/	25.00		
		1	25	/	23.79	/	25.00		
		1	49	/	23.68	1	25.00		
	QPSK	25	0	1	22.86	1	24.00		
		25	13	1	22.84	1	24.00		
		25	25	1	22.77	1	24.00		
		50	0	1	22.80	1	24.00		
		1	0	1	22.79	1	24.00		
		1	25	1	22.99	1	24.00		
		1	49	1	22.84	1	24.00		
10MHz	16QAM	25	0	1	22.05	1	23.00		
		25	13	1	21.70	1	23.00		
		25	25	1	22.05	1	23.00		
		50	0	1	21.85	1	23.00		
		1	0	1	21.63	1	23.00		
		1	25	1	21.84	1	23.00		
		1	49	1	22.11	1	23.00		
	64QAM	25	0	1	21.05	1	22.00		
		25	13	1	20.96	1	22.00		
		25	25	1	21.17	1	22.00		
		50	0	1	21.02	1	22.00		



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Bandwidth Modulation RB size RB offset Channel					Page: /4 of 116					
Bandwidth Modulation RB size RB offset 27686 27710 27735 Tune up		LTE FDD Band	30 Full Power			Conducted I	Power(dBm)			
April	Bandwidth	Modulation	RB size	RB offset				Tune up		
Apsk			1	0	22.58	22.6	22.59	24.00		
April			1	13	22.58	22.63	22.57	24.00		
12			1	24	22.56	22.6	22.62	24.00		
SMHz		QPSK	12	0	21.78	21.65	21.69	23.00		
SMHz			12	6	21.88	21.61	21.78	23.00		
SMHz			12	13	21.77	21.75	21.53	23.00		
SMHz			25	0	21.99	21.79	21.77	23.00		
Table Tabl			1	0	21.65	21.71	21.69	23.00		
Table Tabl			1	13	21.82	21.61	21.82	23.00		
12 6 20.97 21.29 20.59 22.00		5MHz 16QAM	1	24	21.88	21.8	21.79	23.00		
12	5MHz		12	0	20.7	21.02	20.78	22.00		
1			12	6	20.97	21.29	20.59	22.00		
1			12	13	20.71	20.68	21.02	22.00		
1			25	0	20.73	20.91	20.93	22.00		
Bandwidth			1	0	20.64	21.15	20.62	22.00		
Modulation 12 0 19.96 19.94 19.88 21.00			1	13	21.08	20.84	20.99	22.00		
Table Tabl			1	24	21.13	20.89	20.98	22.00		
Table Tabl		64QAM	12	0	19.96	19.94	19.88	21.00		
Bandwidth Modulation RB size RB offset RB offset Channel Channel Channel Channel Tune up			12	6	20.07	20.6	19.71	21.00		
Modulation RB size RB offset Channel Channel 7 27710 7 7 7 7 7 7 7 7 7				13		19.56				
Tune up			25	0	19.79	19.9	19.81	21.00		
10MHz 16QAM 1 0	Bandwidth	Modulation	RB size	RB offset	Channel		Channel	Tune up		
1 25			1	0	1		1	24.00		
10MHz 1					1		1			
10MHz 10MHz 10QPSK 25 0 0 1 21.81 1 23.00 25 25 25 1 3 1 21.76 1 23.00 50 0 1 21.81 1 23.00 50 0 1 21.81 1 23.00 50 0 1 21.81 1 23.00 1 23.00 1 23.00 1 23.00 1 23.00 1 24.57 1 23.00 1 24.59 1 23.00 1 24.64 1 23.00 1 24.64 1 23.00 1 24.64 1 23.00 25 13 1 21 1 22.00 25 13 1 21 1 22.00 25 25 25 1 21.05 1 22.00 50 0 1 20.66 1 22.00 1 1 20.66 1 22.00 1 1 20.89 1 20.00 1 20.83 1 20.00 25 1 21.00 25 1 21.00 25 1 20.00 25 1 20.00 25 21 1 21.00 25 20 21 21 21 21 21 22 20 21 21 21 21 21 21 21 21 21 21 21 21 21					1		1			
10MHz 16QAM 25 13 14 21.84 123.00 23.00 50 0 1 21.81 1 23.00 50 0 1 21.81 1 23.00 1 21.57 1 23.00 1 21.57 1 23.00 1 21.59 1 23.00 1 49 1 21.64 1 23.00 1 49 1 21.64 1 23.00 25 13 1 21 1 22.00 25 13 1 21 1 22.00 50 0 1 21.11 1 22.00 50 0 1 20.68 1 22.00 1 1 49 1 20.68 1 22.00 1 49 1 20.83 1 22.00 1 49 1 20.83 1 21.00 22.00 25 1 49 1 20.83 1 21.00 22.00		OPSK		1	,		1			
10MHz 16QAM 25 25 25 1 21.76 1 23.00 1 21.81 1 23.00 1 21.57 1 23.00 1 21.59 1 21.64 1 23.00 1 49 1 21.64 1 22.00 25 13 1 21 1 22.00 25 25 1 21.05 1 22.00 25 25 1 20.68 1 20.68 1 20.00 1 20.66 1 20.00 1 20.88 1 20.00 1 49 1 20.83 1 20.00 1 49 1 20.83 1 21.00 25 1 20.00 25 1 20.00 25 1 20.00 25 1 20.00 1 20.83 1 20.00 21.00 25 1 20.00 25 25 25 25 25 26 27 20.89 20.00 20.83 20.00 20.0		Q. Sit			,		1			
10MHz 16QAM 1 0					1		1			
10MHz 16QAM 1 0					1		1			
10MHz 16QAM 1					1		1			
10MHz 16QAM 16			1		1		1			
10MHz 16QAM 25 0 / 25 13 / 21 / 21 / 22.00 25 25 / 21.05 / 22.00 50 0 / 20.68 / 22.00 1 0 / 20.66 / 22.00 1 25 / 20.89 / 20.00 1 49 / 20.83 / 20.00 64QAM 25 0 / 25 13 / 20.24 / 21.00 21.00 22.00 23.00 24.00 25.00 25.00 25.00 26.00 27.00 28.00 29.00 20.00			1		1		1			
25 13 / 21 / 22.00 25 25 / 25 / 21.05 / 22.00 50 0 / 20.68 / 22.00 1 0 / 20.66 / 22.00 1 25 / 20.89 / 22.00 1 49 / 20.83 / 22.00 1 49 / 20.83 / 22.00 25 13 / 20.24 / 21.00 25 25 / 20.18 / 21.00	10MHz	16QAM			1		1			
25					1		1			
64QAM 50 0 1 20.68 1 22.00 1 20.66 1 22.00 1 20.89 1 20.89 1 20.83 1 20.00 1 49 1 20.83 1 20.00 25 1 1 25 1 20.21 1 21.00 25 13 1 20.24 1 21.00 25 25 1 20.18 1 21.00					1		1			
64QAM 1 0 / 20.66 / 22.00 1 25 / 20.89 / 22.00 1 49 / 20.83 / 22.00 25 0 / 20.21 / 21.00 25 13 / 20.24 / 21.00 25 25 / 20.18 / 21.00					1		1			
64QAM 1 25 / 20.89 / 22.00 1 49 / 20.83 / 22.00 25 0 / 20.21 / 21.00 25 13 / 20.24 / 21.00 25 25 / 20.18 / 21.00					1		1			
64QAM 25 0 / 20.21 / 21.00 25 13 / 20.24 / 21.00 25 25 / 20.18 / 21.00			1	25	1		1	22.00		
64QAM 25 0 / 20.21 / 21.00 25 13 / 20.24 / 21.00 25 25 / 20.18 / 21.00			1	49	1	20.83	1	22.00		
25 13 / 20.24 / 21.00 25 25 / 20.18 / 21.00		64QAM	25		1		1	21.00		
			25	13	1		1			
50 0 / 19.77 / 21.00			25	25	1	20.18	1	21.00		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			50	0	1	19.77	1	21.00		



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	LTE Band 66	Full Power		Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
Danawiath	Modulation	ND SIZE	IND Ollset	131979	132322	132665	,		
		1	0	23.33	23.41	23.37	24.50		
		1	2	23.56	23.58	23.56	24.50		
		1	5	23.17	23.25	23.23	24.50		
	QPSK	3	0	23.55	23.63	23.60	24.50		
		3	1	23.59	23.59	23.51	24.50		
		3	3	23.48	23.47	23.54	24.50		
		6	0	22.56	22.47	22.41	23.50		
		1	0	22.28	22.66	22.18	23.50		
		1	2	22.73	22.53	22.74	23.50		
	1.4MHz 16QAM	1	5	22.27	22.08	22.22	23.50		
1.4MHz		3	0	22.36	22.33	22.40	23.50		
		3	1	22.56	22.43	22.39	23.50		
		3	3	22.69	22.37	22.70	23.50		
	6	0	21.35	21.65	21.52	22.50			
		1	0	21.04	21.53	21.20	22.50		
		1	2	22.00	21.54	21.74	22.50		
		1	5	21.19	21.17	21.13	22.50		
	64QAM	3	0	21.13	21.19	21.18	22.50		
		3	1	21.52	21.25	21.25	22.50		
		3	3	21.54	21.45	21.90	22.50		
		6	0	20.13	20.67	20.58	21.50		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				131987	132322	132657			
		1	0	23.40	23.43	23.44	24.50		
	-	1	7	23.61	23.58	23.64	24.50		
	ODCK	1	14	23.27	23.33	23.23	24.50		
	QPSK	8	0	22.59	22.65	22.49	23.50		
		8	4	22.56	22.54	22.57	23.50		
		8	7	22.41	22.61	22.41	23.50		
		15 1	0	22.43 22.25	22.51 22.31	22.43 22.27	23.50 23.50		
	-	<u> </u> 1	7						
	-	<u> </u> 1		22.58 22.23	22.57	22.80	23.50		
OMU-	160 4 14		14		22.49	22.47	23.50		
3MHz	16QAM	<u>8</u> 8	0 4	21.35 21.67	21.71 21.61	21.40 21.58	22.50 22.50		
	-	8	7	21.48	21.45	21.43	22.50		
	-	 15	0	21.46	21.45	21.58	22.50		
		1	0						
		<u> </u>	7	21.40 21.82	21.24 21.88	21.41 22.04	22.50 22.50		
		<u> </u> 1	14	21.02	21.45	22.04	22.50		
	64QAM	8	0	20.22	20.78	20.30	21.50		
	UTQ/IVI	8	4	20.71	20.75	20.44	21.50		
		8	7	20.43	20.75	20.62	21.50		
		15	0	20.22	20.27	20.34	21.50		
			-	Channel	Channel	Channel			
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up		
		1	0	23.35	23.43	23.44	24.50		
		1	13	23.63	23.67	23.64	24.50		
		 1	24	23.21	23.33	23.27	24.50		
5MHz	QPSK	12	0	22.55	22.64	22.57	23.50		
J 12	3, 5, (12	6	22.58	22.58	22.56	23.50		
		12	13	22.40	22.57	22.42	23.50		
		25	0	22.53	22.59	22.42	23.50		



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		1	0	22.38	22.37	22.26	23.50
		1	13	22.55	22.85	22.68	23.50
		1	24	22.38	22.36	22.43	23.50
	16QAM	12	0	21.37	21.54	21.81	22.50
		12	6	21.78	21.66	21.76	22.50
		12	13	21.67	21.70	21.38	22.50
		25	0	21.37	21.51	21.41	22.50
		1	0	21.60	21.40	21.06	22.50
		1	13	21.34	22.03	21.83	22.50
		1	24	21.59	21.24	21.32	22.50
	64QAM	12	0	20.23	20.39	21.04	21.50
		12	6	20.73	20.66	20.77	21.50
		12	13	20.52	20.85	20.29	21.50
		25	0	20.43	20.65	20.40	21.50
5			DD " 1	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up
		1	0	23.40	23.49	23.35	24.50
		1	25	23.52	23.69	23.69	24.50
		1	49	23.30	23.31	23.20	24.50
	QPSK	25	0	22.57	22.64	22.49	23.50
		25	13	22.64	22.62	22.63	23.50
		25	25	22.41	22.50	22.45	23.50
		50	0	22.54	22.60	22.48	23.50
		1	0	22.32	22.37	22.69	23.50
		1	25	22.47	22.84	22.74	23.50
		1	49	22.07	22.47	22.40	23.50
10MHz	16QAM	25	0	21.39	21.45	21.69	22.50
		25	13	21.33	21.40	21.46	22.50
		25	25	21.63	21.36	21.47	22.50
		50	0	21.50	21.31	21.61	22.50
		1	0	21.43	21.20	21.81	22.50
		1	25	21.33	21.96	21.58	22.50
		1	49	21.13	21.35	21.62	22.50
	64QAM	25	0	20.58	20.61	20.92	21.50
		25	13	20.26	20.49	20.53	21.50
		25	25	20.47	20.58	20.38	21.50
		50	0	20.42	20.10	20.75	21.50
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132047	132322	132597	Tune up
		4	0			23.37	24.50
		1	0	23.47	23.43		24.50
		1	38	23.52	23.60	23.54	24.50
		1	74	23.16	23.36	23.31	24.50
	QPSK	36	0	22.52	22.54	22.59	23.50
		36	18	22.66	22.59	22.57	23.50
		36	39	22.48	22.47	22.47	23.50
		75	0	22.42	22.49	22.42	23.50
		1	0	22.44	22.50	22.51	23.50
15MHz				†			
		1	38	22.41	22.50	22.52	23.50
		1	74	22.01	22.18	22.27	23.50
	16QAM	36	0	21.48	21.61	21.45	22.50
		36	18	21.56	21.61	21.76	22.50
		36	39	21.27	21.52	21.48	22.50
		75	0	21.31	21.47	21.65	22.50
		1	0	21.47	21.34	21.70	22.50
	64QAM	1	38	21.41	21.78	21.45	22.50
	İ	I	30	Z1.41	21.10	Z 1.4J	ZZ.JU



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Table Tabl
Bandwidth Modulation RB size RB offset Channel Channel Channel Tune up
Bandwidth Modulation RB size RB offset Channel Channel Channel Channel Tune up
To Tune up
Bandwidth Modulation RB size RB offset Channel 132072 Channel 132322 Channel 132572 Tune up 1 0 23.48 23.51 23.49 24.50 1 50 23.67 23.71 23.69 24.50 1 99 23.31 23.38 23.32 24.50 50 0 22.67 22.69 22.66 23.50 50 25 22.61 22.65 22.62 23.50 50 50 22.53 22.61 22.55 23.50 100 0 22.56 22.62 22.54 23.50 100 0 22.57 22.44 22.62 23.50 1 0 22.57 22.44 22.62 23.50 1 50 22.68 22.59 22.55 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
Bandwidth Modulation RB size RB offset 132072 132322 132572 Tune up QPSK 1 0 23.48 23.51 23.49 24.50 1 50 23.67 23.71 23.69 24.50 1 99 23.31 23.38 23.32 24.50 50 0 22.67 22.69 22.66 23.50 50 25 22.61 22.65 22.62 23.50 50 50 22.53 22.61 22.55 23.50 100 0 22.56 22.62 22.54 23.50 1 0 22.57 22.44 22.62 23.50 1 50 22.68 22.59 22.55 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
132072
QPSK
QPSK 1 99 23.31 23.38 23.32 24.50 50 0 22.67 22.69 22.66 23.50 50 25 22.61 22.65 22.62 23.50 50 50 50 22.53 22.61 22.55 23.50 100 0 22.56 22.62 22.54 23.50 1 0 22.57 22.44 22.62 23.50 1 50 22.68 22.59 22.55 23.50 1 99 22.47 22.53 22.16 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
QPSK 50 0 22.67 22.69 22.66 23.50 50 25 22.61 22.65 22.62 23.50 50 50 50 22.53 22.61 22.55 23.50 100 0 22.56 22.62 22.54 23.50 1 0 22.57 22.44 22.62 23.50 1 50 22.68 22.59 22.55 23.50 1 99 22.47 22.53 22.16 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
50 25 22.61 22.65 22.62 23.50 50 50 50 22.53 22.61 22.55 23.50 100 0 22.56 22.62 22.54 23.50 1 0 22.57 22.44 22.62 23.50 1 50 22.68 22.59 22.55 23.50 1 99 22.47 22.53 22.16 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
50 50 22.53 22.61 22.55 23.50 100 0 22.56 22.62 22.54 23.50 1 0 22.57 22.44 22.62 23.50 1 50 22.68 22.59 22.55 23.50 1 99 22.47 22.53 22.16 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
100 0 22.56 22.62 22.54 23.50 1 0 22.57 22.44 22.62 23.50 1 50 22.68 22.59 22.55 23.50 1 99 22.47 22.53 22.16 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
1 0 22.57 22.44 22.62 23.50 1 50 22.68 22.59 22.55 23.50 1 99 22.47 22.53 22.16 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
1 50 22.68 22.59 22.55 23.50 1 99 22.47 22.53 22.16 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
1 99 22.47 22.53 22.16 23.50 20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
20MHz 16QAM 50 0 21.64 21.66 21.75 22.50
50 25 21.87 21.55 21.81 22.50
50 50 21.32 21.40 21.48 22.50
100 0 21.60 21.40 21.41 22.50
1 0 21.72 21.45 21.60 22.50
1 50 21.54 21.50 21.46 22.50
1 99 21.30 21.36 21.26 22.50
64QAM 50 0 20.82 20.71 20.97 21.50
50 25 20.85 20.37 21.00 21.50
50 50 20.39 20.43 20.67 21.50
100 0 20.56 20.35 20.60 21.50

LTE Ban	d 66 Hotspot on&	Body-worn&Har	ndheld on	Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up		
Danuwium	Wodulation	ND SIZE	RD Ollset	131979	132322	132665	Tune up		
		1	0	21.33	21.22	21.37	22.50		
		1	2	21.53	21.58	21.53	22.50		
		1	5	21.12	21.17	21.10	22.50		
	QPSK	3	0	21.35	21.52	21.52	22.50		
		3	1	21.48	21.35	21.31	22.50		
		3	3	21.37	21.27	21.38	22.50		
		6	0	21.29	21.19	21.10	22.50		
		1	0	21.03	21.20	20.86	22.50		
		1	2	21.20	20.99	21.33	22.50		
1.4MHz	16QAM	1	5	20.99	20.55	20.70	22.50		
1.4111112		3	0	21.00	20.92	21.01	22.50		
		3	1	21.05	20.98	21.10	22.50		
		3	3	21.38	20.93	21.43	22.50		
		6	0	20.83	21.37	21.12	22.50		
		1	0	20.78	21.04	20.65	22.50		
		1	2	21.13	21.21	21.19	22.50		
	64QAM	1	5	20.89	20.68	20.76	22.50		
	04QAIVI	3	0	20.85	20.94	20.93	22.50		
		3	1	21.13	20.99	20.90	22.50		
		3	3	21.18	20.93	21.13	22.50		



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		6	0	19.60	20.19	20.12	21.50				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up				
Danawiatii	Woddiation	ND 3IZE	IVD Ollset	131987	132322	132657	Turie up				
		1	0	21.37	21.48	21.27	22.50				
		1	7	21.46	21.51	21.45	22.50				
		1	14	21.11	21.12	21.20	22.50				
	QPSK	8	0	21.07	21.23	21.03	22.50				
		8	4	21.05	21.27	21.26	22.50				
		8	7	20.91	21.20	21.12	22.50				
		15	0	21.06	21.17	21.01	22.50				
		1	0	20.70	20.90	20.81	22.50				
	3MHz 16QAM	1	7	21.19	21.02	21.32	22.50				
		1	14	20.74	21.17	21.11	22.50				
3MHz		8	0	21.07	21.37	21.02	22.50				
		8	4	21.14	21.06	21.03	22.50				
		8	7	20.96	21.02	21.00	22.50				
		15	0	20.75	20.83	21.21	22.50				
		1	0	21.02	20.76	20.94	22.50				
		1	7	21.33	21.50	21.32	22.50				
		1	14	20.74	21.15	20.89	22.50				
	64QAM	8	0	19.74	20.47	19.98	21.50				
		8	4	20.32	20.41	20.02	21.50				
		8	7	20.06	20.21	20.13	21.50				
		15	0	19.84	19.74	19.88	21.50				
Daniel del	NA - ded - C	DD -:	DD . #	Channel	Channel	Channel	T				
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up				
		1	0	21.15	21.39	21.41	22.50				
		1	13	21.53	21.58	21.56	22.50				
		1	24	21.21	21.21	21.28	22.50				
	QPSK	12	0	21.28	21.18	21.25	22.50				
		12	6	21.30	21.14	21.15	22.50				
		12	13	20.86	21.13	20.92	22.50				
		25	0	21.18	21.15	21.10	22.50				
		1	0	21.05	20.82	20.99	22.50				
		1	13	21.12	21.34	21.23	22.50				
		1	24	21.05	20.81	21.15	22.50				
5MHz	16QAM	12	0	20.97	21.24	21.52	22.50				
		12	6	21.33	21.38	21.51	22.50				
		12	13	21.16	21.23	21.01	22.50				
		25	0	20.94	21.20	21.02	22.50				
		1	0	21.19	20.99	20.65	22.50				
		1	13	21.03	21.52	21.50	22.50				
		1	24	21.23	20.90	20.93	22.50				
	64QAM	12	0	19.80	20.14	20.70	21.50				
		12	6	20.30	20.27	20.37	21.50				
		12	13	20.17	20.50	19.81	21.50				
		25	0	20.16	20.17	19.90	21.50				
Dan deed die	Modulati		DD -#:-+	Channel	Channel	Channel					
Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up				
		1	0	21.18	21.47	21.28	22.50				
		1	25	21.37	21.53	21.47	22.50				
		1	49	21.22	21.10	21.05	22.50				
40	QPSK	25	0	21.09	21.30	21.10	22.50				
10MHz		25	13	21.39	21.11	21.10	22.50				
		25	25	21.15	21.12	20.91	22.50				
		50	0	21.29	21.22	21.05	22.50				
	16QAM	1	0	20.92	21.05	21.20	22.50				



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		1	25	21.17	21.39	21.48	22.50
		1	49	20.78	21.19	20.91	22.50
		25	0	21.11	21.18	21.41	22.50
		25	13	20.88	20.87	21.03	22.50
		25 50	25 0	21.25 21.24	20.96 20.95	21.21 21.12	22.50 22.50
		1	0	20.95	20.73	21.06	22.50
		1	25	21.04	21.47	21.26	22.50
		1	49	20.71	20.87	21.25	22.50
	64QAM	25	0	20.13	20.15	20.50	21.50
		25	13	19.98	20.02	20.18	21.50
		25	25	20.06	20.21	20.04	21.50
		50	0	20.10	19.79	20.29	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danamati	Woddiation	112 0120	T LB GIIGGE	132047	132322	132597	runo up
		1	0	21.24	21.26	21.14	22.50
		1	38	21.37	21.36	21.45	22.50
		1	74	20.97	21.28	21.15	22.50
	QPSK	36	0	21.10	21.13	21.33	22.50
		36	18	21.13	21.23	21.16	22.50
		36	39	20.96	21.03	21.04	22.50
		75	0	20.95	21.07	20.96	22.50
		1	0	21.08	20.96	21.12	22.50
		1	38	21.12	21.06	20.97	22.50
		1	74	20.50	20.68	20.74	22.50
15MHz	16QAM	36	0	21.13	21.12	20.92	22.50
		36	18	21.29	21.24	21.23	22.50
		36	39	20.82	21.22	21.01	22.50
		75	0	20.98	21.21	21.38	22.50
		1	0	21.09	20.91	21.41	22.50
		1	38	20.89	21.07	21.02	22.50
		1	74	20.95	20.83	21.04	22.50
	64QAM	36	0	20.33	20.11	19.85	21.50
		36	18	20.05	20.35	20.65	21.50
		36	39	19.72	19.99	19.93	21.50
		75	0	20.08	20.00	20.16	21.50
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	132072	132322	132572	Tune up
		1	0	21.39	21.47	21.40	22.50
		1	50	21.60	21.66	21.58	22.50
		1	99	21.19	21.36	21.27	22.50
	QPSK	50	0	21.46	21.51	21.49	22.50
20MHz		50	25	21.38	21.18	21.14	22.50
		50	50	21.13	21.14	21.19	22.50
		100	0	21.36	21.44	21.32	22.50
	16QAM	1	0	21.06	21.00	21.29	22.50



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					<u> </u>		
		1	50	21.13	21.32	21.05	22.50
		1	99	21.18	21.14	20.65	22.50
		50	0	21.28	21.36	21.40	22.50
		50	25	21.60	21.21	21.39	22.50
		50	50	21.05	20.89	20.96	22.50
		100	0	21.16	20.87	21.01	22.50
		1	0	21.31	21.12	21.17	22.50
		1	50	21.27	21.21	21.14	22.50
		1	99	20.99	20.85	20.90	22.50
	64QAM	50	0	20.56	20.38	20.60	21.50
		50	25	20.53	19.89	20.66	21.50
		50	50	20.13	19.95	20.40	21.50
		100	0	20.06	20.00	20.33	21.50



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8.1.3 Conducted Power of Downlink CA

				F	CC				SCC				Power	
CAliet	LTE		BW	UL	UL		UL#	UL	LTE	BW	DL	DL	With CA	Without CA
CA List	Dand	Ant	/N 41 1~\	Freq.	Channal	Mod.	RB	RB	Dond	/NAL I=\	Freq.	Channal	Tx. Power	Tx. Power
	Band		(MHz)	(MHz)	Channel		KD	Offset	Band	(MHz)	(MHz)	Channel	(dBm)	(dBm)
CA_2A-	Band 2	0	20M	1880	18900	QPSK	1	50	Band 12	10M	737.5	5095	23.25	23.43
12A	Band 12	0	10M	707.5	23095	QPSK	1	25	Band 2	20M	1960	900	23.81	23.91
CA_2A-	Band 2	0	20M	1880	18900	QPSK	1	50	Band 5	10M	881.5	2525	23.3	23.43
5A	Band 5	0	10M	836.5	20525	QPSK	1	25	Band 2	20M	1960	900	23.64	23.78
CA_5A-	Band 5	0	10M	836.5	20525	QPSK	1	25	Band 30	10M	2355	9820	23.55	23.78
30A	Band 30	0	10M	2310	27710	QPSK	1	25	Band 5	10M	881.5	2525	22.5	22.69
CA_66A-	Band 66	0	20M	1745	132322	QPSK	1	50	Band 12	10M	737.5	5095	23.59	23.71
12A	Band 12	0	10M	707.5	23095	QPSK	1	25	Band 66	20M	2145	66786	23.84	23.91
CA_66A-	Band 66	0	20M	1745	132322	QPSK	1	50	Band 5	10M	881.5	2525	23.63	23.71
5A	Band 5	0	10M	836.5	20525	QPSK	1	25	Band 66	20M	2145	66786	23.68	23.78
CA_12A-	Band 12	0	10M	707.5	23095	QPSK	1	25	Band 30	10M	2355	9820	23.76	23.91
30A	Band 30	0	10M	2310	27710	QPSK	1	25	Band 12	10M	737.5	5095	22.65	22.69
CA_14A-	Band 14	0	10M	793	23330	QPSK	1	25	Band 30	10M	2355	9820	23.6	23.79
30A	Band 30	0	10M	2310	27710	QPSK	1	25	Band 14	10M	763	5330	22.63	22.69
CA_66A- 66A	Band 66	0	20M	1745	132322	QPSK	1	50	Band 66	5M	2177.5	67111	23.62	23.71
CA 66B	Band 66	0	15M	1745	132322	QPSK	1	50	Band 66	5M	2164.3	66979	23.52	23.71
CA 66C	Band 66	0	20M	1745	132322	QPSK	1	50	Band 66	20M	2174.8	67084	23.67	23.71

Note:

- 1) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 2) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

 The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS

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



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8.1.4 Conducted Power of WIFI

		WIFI 2.4G Receiver of	Receiver on		
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	1	2412		19.46	20.00
802.11b	6	2437	1	19.26	20.00
	11	2462		19.35	20.00
	1	2412		18.00	19.00
802.11g	6	2437	6	18.05	19.00
	11	2462		18.03	19.00
	1	2412		17.95	19.00
802.11n HT20	6	2437	6.5	17.84	19.00
11120	11	2462		17.93	19.00

		WIFI 2.4G Receiver on Simult	aneous Transmission		
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	1	2412		18.52	19.00
802.11b	6	2437	1	18.33	19.00
	11	2462		18.47	19.00
	1	2412		18.00	19.00
802.11g	6	2437	6	18.05	19.00
	11	2462		18.03	19.00
	1	2412		17.95	19.00
802.11n HT20	6	2437	6.5	17.84	19.00
20	11	2462	7	17.93	19.00



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			WIFI 5G Receiver off	Page: 83	of 116	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		17.93	19.00
	U-NII-1	40	5200		18.11	19.00
	O-INII-1	44	5220		17.97	19.00
		48	5240		18.14	19.00
		52	5260		18.11	19.00
	LI NIII OA	56	5280		17.96	19.00
	U-NII-2A	60	5300		18.07	19.00
		64	5320		18.07	19.00
		100	5500		18.25	19.00
		104	5520		18.29	19.00
		108	5540		18.26	19.00
802.11a		112	5560	6	18.20	19.00
002.11a		116	5580		18.11	19.00
	U-NII-2C	120	5600		18.24	19.00
		124	5620		18.35	19.00
		128	5640		18.26	19.00
		132	5660		18.22	19.00
		136	5680		18.15	19.00
		140	5700		18.24	19.00
		149	5745		18.46	19.00
		153	5765		18.52	19.00
	U-NII-3	157	5785		18.49	19.00
		161	5805		18.46	19.00
		165	5825		18.37	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		17.89	19.00
	U-NII-1	40	5200		17.95	19.00
	O-IVII-1	44	5220		17.87	19.00
		48	5240		18.01	19.00
		52	5260		17.97	19.00
802.11n-HT20	U-NII-2A	56	5280	MCS0	17.86	19.00
002.1111-11120	U-INII-ZA	60	5300	WICGU	17.91	19.00
		64	5320		17.93	19.00
		100	5500		18.16	19.00
	II NIII 20	104	5520		18.15	19.00
	U-NII-2C	108	5540		18.13	19.00
		112	5560		18.26	19.00



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		116	5580		18.14	19.00
		120	5600		18.13	19.00
		124	5620		18.17	19.00
		128	5640		18.16	19.00
		132	5660		18.13	19.00
		136	5680		18.17	19.00
		140	5700		18.08	19.00
		149	5745		18.27	19.00
		153	5765		18.28	19.00
	U-NII-3	157	5785		18.37	19.00
		161	5805		18.36	19.00
		165	5825		18.23	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		17.57	19.00
	U-INII-1	46	5230		17.58	19.00
	LI NIII OA	54	5270		17.41	19.00
	U-NII-2A	62	5310		17.55	19.00
		102	5510		17.99	19.00
802.11n-HT40		110	5550	MCS0	17.93	19.00
	U-NII-2C	118	5590		17.96	19.00
		126	5630		18.01	19.00
		134	5670		17.96	19.00
	U-NII-3	151	5755		18.17	19.00
		159	5795		18.22	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		17.82	19.00
	U-NII-1	40	5200		17.97	19.00
	O-IVII-1	44	5220		17.86	19.00
		48	5240		18.01	19.00
		52	5260		17.97	19.00
	U-NII-2A	56	5280		17.85	19.00
802.11ac-20	0-NII-ZA	60	5300	MCS0	17.94	19.00
002.11ac-20		64	5320	IVICOU	18.01	19.00
		100	5500		18.20	19.00
		104	5520		18.13	19.00
	U-NII-2C	108	5540		18.13	19.00
	U-INII-ZU	112	5560		18.25	19.00
		116	5580		18.13	19.00
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				Page: 85	01 1 10	
		124	5620		18.19	19.00
		128	5640		18.16	19.00
		132	5660		18.14	19.00
		136	5680		18.21	19.00
		140	5700		18.25	19.00
		149	5745		18.33	19.00
		153	5765		18.40	19.00
	U-NII-3	157	5785		18.39	19.00
		161	5805		18.30	19.00
		165	5825		18.19	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		17.44	19.00
	O-INII- I	46	5230		17.49	19.00
	U-NII-2A	54	5270		17.57	19.00
	0-NII-2A	62	5310		17.66	19.00
		102	5510		17.95	19.00
802.11ac-40		110	5550	MCS0	18.08	19.00
	U-NII-2C	118	5590		18.08	19.00
		126	5630		18.11	19.00
		134	5670		18.03	19.00
	U-NII-3	151	5755		18.19	19.00
	0-1111-3	159	5795		18.29	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	42	5210		17.46	19.00
	U-NII-2A	58	5290		17.51	19.00
802.11ac 80M		106	5530	MCS0	17.86	19.00
	LI-NIII-2C					
	U-NII-2C	122	5610		17.73	19.00

WIFI 5G Receiver on									
5GHz	mode	mode Channel Frequency(MHz) Data Rate(Mbps) Average Power (dBm)							
		36	5180		16.03	17.00			
	U-NII-1	40	5200	6	16.05	17.00			
	O-IIII- I	44	5220		15.90	17.00			
802.11a		48	5240		16.15	17.00			
002.11a		52	5260	O	16.15	17.00			
	U-NII-2A	56	5280		15.90	17.00			
		60	5300		16.11	17.00			
		64	5320		16.17	17.00			



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		100	5500		18.25	19.00
		104	5520		18.29	19.00
		108	5540		18.26	19.00
		112	5560		18.20	19.00
		116	5580		18.11	19.00
	U-NII-2C	120	5600	7	18.24	19.00
		124	5620	7	18.35	19.00
		128	5640		18.26	19.00
		132	5660		18.22	19.00
		136	5680		18.15	19.00
		140	5700		18.24	19.00
		149	5745		18.46	19.00
		153	5765		18.52	19.00
	U-NII-3	157	5785		18.49	19.00
		161	5805		18.46	19.00
		165	5825		18.37	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		16.01	17.00
	-	40	5200		15.89	17.00
	U-NII-1	44	5220		16.00	17.00
		48	5240		16.09	17.00
		52	5260		15.87	17.00
		56	5280		15.99	17.00
	U-NII-2A	60	5300		15.87	17.00
		64	5320		15.83	17.00
		100	5500		18.16	19.00
		104	5520		18.15	19.00
		108	5540		18.13	19.00
802.11n-HT20		112	5560	MCS0	18.26	19.00
		116	5580		18.14	19.00
	U-NII-2C	120	5600		18.13	19.00
		124	5620		18.17	19.00
		128	5640		18.16	19.00
		132	5660		18.13	19.00
		136	5680	1	18.17	19.00
		140	5700	7	18.08	19.00
		149	5745	1	18.27	19.00
			5765	-	18.28	19.00
		153	37 00			
	U-NII-3	153	5785		18.37	19.00



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	1	l	•	Page: 87	ot 116	
		165	5825		18.23	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		15.52	17.00
		46	5230		15.52	17.00
	U-NII-2A	54	5270		15.42	17.00
	0-IVII-2A	62	5310		15.40	17.00
		102	5510		17.99	19.00
802.11n-HT40		110	5550	MCS0	17.93	19.00
	U-NII-2C	118	5590		17.96	19.00
		126	5630		18.01	19.00
		134	5670		17.96	19.00
	LI NIII O	151	5755		18.17	19.00
	U-NII-3	159	5795		18.22	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		15.79	17.00
	U-NII-1	40	5200		15.83	17.00
		44	5220		15.80	17.00
		48	5240		16.14	17.00
		52	5260		15.93	17.00
		56	5280		15.89	17.00
	U-NII-2A	60	5300		15.88	17.00
		64	5320		16.05	17.00
		100	5500		18.20	19.00
		104	5520		18.13	19.00
		108	5540		18.13	19.00
000.44		112	5560		18.25	19.00
802.11ac-20		116	5580	MCS0	18.13	19.00
	U-NII-2C	120	5600		18.11	19.00
		124	5620		18.19	19.00
		128	5640		18.16	19.00
		132	5660		18.14	19.00
		136	5680		18.21	19.00
		140	5700		18.25	19.00
		149	5745		18.33	19.00
		153	5765		18.40	19.00
	U-NII-3	157	5785	7	18.39	19.00
		161	5805		18.30	19.00
		165	5825		18.19	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up



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				raye. 00 t	51 1 10	
	U-NII-1	38	5190		15.42	17.00
	U-INII-1	46	5230		15.62	17.00
	U-NII-2A	54	5270		15.48	17.00
	U-MII-ZA	62	5310		15.74	17.00
		102	5510		17.95	19.00
802.11ac-40		110	5550	MCS0	18.08	19.00
	U-NII-2C	118	5590		18.08	19.00
		126	5630		18.11	19.00
		134	5670		18.03	19.00
	U-NII-3	151	5755		18.19	19.00
		159	5795		18.29	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	42	5210		15.56	17.00
	U-NII-2A	58	5290		15.61	17.00
802.11ac 80M	U-NII-2C	106	5530	MCS0	17.86	19.00
	U-INII-ZU	122	5610		17.73	19.00
	U-NII-3	155	5775		17.82	19.00

WIFI 5G Receiver on Simultaneous Transmission								
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up		
		36	5180		15.23	16.00		
		40	5200		15.17	16.00		
	U-NII-1	44	5220		15.06	16.00		
		48	5240	7	15.26	16.00		
		52	5260	7	15.27	16.00		
		56	5280		15.06	16.00		
U-NII-2	U-NII-2A	60	5300]	15.25	16.00		
		64	5320	7	15.30	16.00		
		100	5500	6	18.25	19.00		
802.11a		104	5520		18.29	19.00		
		108	5540	7	18.26	19.00		
		112	5560		18.20	19.00		
		116	5580		18.11	19.00		
	U-NII-2C	120	5600		18.24	19.00		
		124	5620		18.35	19.00		
		128	5640		18.26	19.00		
		132	5660]	18.22	19.00		
		136	5680		18.15	19.00		
		140	5700	7	18.24	19.00		



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		149	5745		18.46	19.00
		153	5765		18.52	19.00
	U-NII-3	157	5785		18.49	19.00
		161	5805		18.46	19.00
		165	5825		18.37	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		15.21	16.00
	U-NII-1	40	5200		15.02	16.00
	O-INII- I	44	5220		15.12	16.00
		48	5240		15.20	16.00
		52	5260		15.04	16.00
	U-NII-2A	56	5280		15.18	16.00
	U-MII-ZA	60	5300		15.01	16.00
		64	5320		14.95	16.00
		100	5500		18.16	19.00
		104	5520		18.15	19.00
		108	5540		18.13	19.00
802.11n-HT20		112	5560	MCS0	18.26	19.00
602.11II-H120		116	5580	- MCSU	18.14	19.00
	U-NII-2C	120	5600		18.13	19.00
		124	5620		18.17	19.00
		128	5640		18.16	19.00
		132	5660		18.13	19.00
		136	5680		18.17	19.00
		140	5700		18.08	19.00
		149	5745		18.27	19.00
		153	5765	7	18.28	19.00
	U-NII-3	157	5785		18.37	19.00
		161	5805		18.36	19.00
		165	5825		18.23	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		14.64	16.00
	U-INII- I	46	5230		14.67	16.00
	11 1111 0 4	54	5270		14.58	16.00
902 11c UT40	U-NII-2A	62	5310	MCCO	14.50	16.00
802.11n-HT40		102	5510	MCS0	17.99	19.00
	1	110	5550		17.93	19.00
	11 11 00	110	0000			
	U-NII-2C	118	5590		17.96	19.00



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		134	5670		17.96	19.00
	U-NII-3	151	5755		18.17	19.00
	0 1411 0	159	5795		18.22	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	_	36	5180		14.90	16.00
	U-NII-1	40	5200		14.95	16.00
		44	5220		14.95	16.00
		48	5240		15.33	16.00
		52	5260		15.13	16.00
	U-NII-2A	56	5280		15.00	16.00
	U-IVII-ZA	60	5300		15.05	16.00
		64	5320		15.21	16.00
		100	5500		18.20	19.00
		104	5520		18.13	19.00
		108	5540		18.13	19.00
802.11ac-20		112	5560		18.25	19.00
802.11ac-20		116	5580	MCS0	18.13	19.00
	U-NII-2C	120	5600		18.11	19.00
		124	5620	7	18.19	19.00
		128	5640	7	18.16	19.00
	 	132	5660		18.14	19.00
		136	5680		18.21	19.00
		140	5700	-	18.25	19.00
		149	5745		18.33	19.00
		153	5765		18.40	19.00
	U-NII-3	157	5785	7	18.39	19.00
		161	5805	7	18.30	19.00
		165	5825		18.19	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		14.57	16.00
	0-1411-1	46	5230		14.84	16.00
	U-NII-2A	54	5270		14.62	16.00
	U-11/11-274	62	5310		14.86	16.00
802.11ac-40		102	5510	MCS0	17.95	19.00
002.11a0-40		110	5550	IVICSU	18.08	19.00
	U-NII-2C	118	5590		18.08	19.00
		126	5630		18.11	19.00
		134	5670		18.03	19.00
	U-NII-3	151	5755		18.19	19.00



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		159	5795		18.29	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
U-NII-	U-NII-1	42	5210		14.72	16.00
	U-NII-2A	58	5290		14.82	16.00
802.11ac 80M	LI NIII 2C	106	5530	MCS0	17.86	19.00
	OUVI U-NII-2C	122	5610		17.73	19.00
	U-NII-3	155	5775		17.82	19.00

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.



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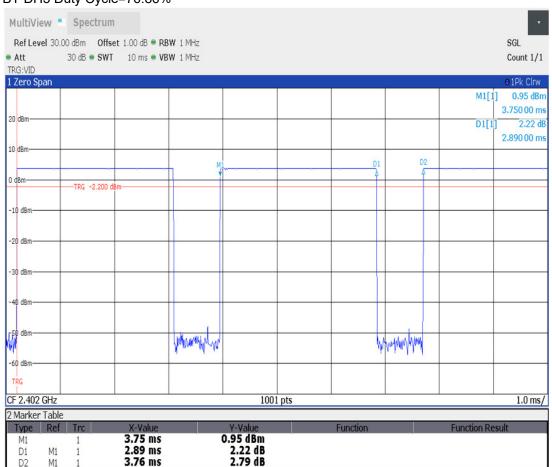
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8.1.5 Conducted Power of BT

BT DH5 Duty Cycle=76.86%



В	ВТ		Average Conducted Power(dBm)				
Band	Channel	0	39	78	Tune up		
	GFSK	3.95	4.72	3.92	5.00		
BT	π/4DQPSK	2.73	3.52	2.77	4.00		
	8DPSK	2.55	3.35	2.60	4.00		
Band	Channel	0	19	39	Tune up		
BLE	GFSK	-3.13	-2.29	-3.16	-2.00		
BLE	GFSK	-3.97	-2.90	-3.80	-2.00		

1)The conducted power of BT is measured with RMS detector.



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8.2 Stand-alone SAR test evaluation

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

Freq. Band	Frequency	Position		erage ower	Test Separation	Calculate	Exclusion	Exclusion
	(GHz)		dBm	mW	(mm)	Value	Threshold	(Y/N)
		Head	20	100	5	31.38	3	N
Wi-Fi 2.4G	2.462	Body-worn	20	100	15	10.46	3	N
		Hotspot	20	100	10	15.69	3	N
		Head	9.5	8.91	5	2.81	3	Y
Bluetooth	2.48	Body-worn	9.5	8.91	15	0.94	3	Y
		Hotspot	9.5	8.91	10	1.40	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:

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

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

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



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8.3 Measurement of SAR Data

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:
 - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
 - \bullet ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

WiFi 2.4G:

 When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.1 SAR Result of WCDMA Band II

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
				Head Te	st Data					
Left cheek	RMC	9400/1880	1:1	0.112	0.09	23.19	24.00	1.205	0.135	22.4
Left tilted	RMC	9400/1880	1:1	0.094	-0.09	23.19	24.00	1.205	0.113	22.4
Right cheek	RMC	9400/1880	1:1	0.117	0.07	23.19	24.00	1.205	0.141	22.4
Right tilted	RMC	9400/1880	1:1	0.075	-0.14	23.19	24.00	1.205	0.090	22.4
			Body wo	rn Test dat	a(Separate 1	5mm)				
Front side	RMC	9400/1880	1:1	0.416	-0.13	23.19	24.00	1.205	0.501	22.4
Back side	RMC	9400/1880	1:1	0.372	0.07	23.19	24.00	1.205	0.448	22.4
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.463	-0.08	21.39	22.50	1.291	0.598	22.4
Back side	RMC	9400/1880	1:1	0.457	0.14	21.39	22.50	1.291	0.590	22.4
Left side	RMC	9400/1880	1:1	0.112	-0.17	21.39	22.50	1.291	0.145	22.4
Right side	RMC	9400/1880	1:1	0.081	0.08	21.39	22.50	1.291	0.105	22.4
Bottom side	RMC	9400/1880	1:1	0.978	-0.04	21.39	22.50	1.291	1.263	22.4
Bottom side	RMC	9262/1852.4	1:1	1.000	-0.03	21.37	22.50	1.297	1.297	22.4
Bottom side-Repeated	RMC	9262/1852.4	1:1	0.993	0.01	21.37	22.50	1.297	1.288	22.4
Bottom side	RMC	9538/1907.6	1:1	0.865	0.04	21.36	22.50	1.300	1.125	22.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
			Hotspo	ot Test data	(Separate 0n	nm)				
Bottom side	RMC	9400/1880	1:1	2.360	0.02	23.19	24.00	1.205	2.844	22.4
Bottom side	RMC	9262/1852.4	1:1	2.560	0.19	23.16	24.00	1.213	3.106	22.4
Bottom side-Repeated	RMC	9262/1852.4	1:1	2.490	0.06	23.16	24.00	1.213	3.021	22.4
Bottom side	RMC	9538/1907.6	1:1	2.220	0.06	23.14	24.00	1.219	2.706	22.4

Table 11: SAR of WCDMA Band II for Head and Body.

Test Position	Channel/ Frequency	Micasarca CAIX	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	9262/1852.4	1.00	0.993	1.007049345	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Test Position	Channel/ Frequency	Micasarca OAIX	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)
Bottom side	9262/1852.4	2.56	2.49	1.02811245	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2 W/kg, the measurement was repeated once.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 2 W/kg



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20

²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 3.63 W/kg (~ 10% from the 10-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 3.75 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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8.3.2 SAR Result of WCDMA Band IV

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	•	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(°C)
				Head Te	st Data			•		
Left cheek	RMC	1412/1732.4	1:1	0.059	-0.09	22.97	24.00	1.268	0.075	22.5
Left tilted	RMC	1412/1732.4	1:1	0.040	-0.15	22.97	24.00	1.268	0.051	22.5
Right cheek	RMC	1412/1732.4	1:1	0.090	-0.07	22.97	24.00	1.268	0.114	22.5
Right tilted	RMC	1412/1732.4	1:1	0.040	0.12	22.97	24.00	1.268	0.051	22.5
			Body v	vorn Test data	a(Separate 15	mm)				
Front side	RMC	1412/1732.4	1:1	0.439	0.02	22.17	23.00	1.211	0.531	22.5
Back side	RMC	1412/1732.4	1:1	0.549	-0.04	22.17	23.00	1.211	0.665	22.5
			Hots	oot Test data(Separate 10n	nm)				
Front side	RMC	1412/1732.4	1:1	0.491	-0.01	21.56	22.50	1.242	0.610	22.5
Back side	RMC	1412/1732.4	1:1	0.539	0.14	21.56	22.50	1.242	0.669	22.5
Left side	RMC	1412/1732.4	1:1	0.059	-0.10	21.56	22.50	1.242	0.073	22.5
Right side	RMC	1412/1732.4	1:1	0.070	0.05	21.56	22.50	1.242	0.087	22.5
Bottom side	RMC	1412/1732.4	1:1	0.946	-0.02	21.56	22.50	1.242	1.175	22.5
Bottom side	RMC	1312/1712.4	1:1	0.895	0.08	21.51	22.50	1.256	1.124	22.5
Bottom side	RMC	1513/1752.6	1:1	0.982	0.11	21.55	22.50	1.245	1.222	22.5
Bottom side-Repeated	RMC	1513/1752.6	1:1	0.964	0.02	21.55	22.50	1.245	1.200	22.5
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	•	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Hotspot Test data(Separate 0mm)										
Bottom side	RMC	1412/1732.4	1:1	2.560	0.02	22.17	23.00	1.211	3.099	22.5
Bottom side	RMC	1312/1712.4	1:1	2.430	-0.11	22.11	23.00	1.227	2.983	22.5
Bottom side	RMC	1513/1752.6	1:1	2.610	0.18	22.15	23.00	1.216	3.174	22.5
Bottom side-Repeated	RMC	1513/1752.6	1:1	2.580	0.03	22.15	23.00	1.216	3.138	22.5

Table 12: SAR of WCDMA Band IV for Head and Body

Test Position	Channel/ Frequency	Micasarca OAIX	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	1513/1752.6	0.982	0.964	1.018672199	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

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

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

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Test Position	Channel/ Frequency	measured oan	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)
Bottom side	1513/1752.6	2.61	2.58	1.011627907	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 3.63 W/kg (~ 10% from the 10-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 3.75 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 2 W/kg



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8.3.3 SAR Result of WCDMA Band V

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)		
	Head Test Data											
Left cheek	RMC	4182/836.4	1:1	0.254	0.06	22.90	24.00	1.288	0.327	22.3		
Left tilted	RMC	4182/836.4	1:1	0.146	-0.17	22.90	24.00	1.288	0.188	22.3		
Right cheek	RMC	4182/836.4	1:1	0.249	0.10	22.90	24.00	1.288	0.321	22.3		
Right tilted	RMC	4182/836.4	1:1	0.125	0.02	22.90	24.00	1.288	0.161	22.3		
	Body worn Test data(Separate 15mm)											
Front side	RMC	4182/836.4	1:1	0.286	0.05	22.90	24.00	1.288	0.368	22.3		
Back side	RMC	4182/836.4	1:1	0.345	-0.03	22.90	24.00	1.288	0.444	22.3		
			Hotspo	t Test data(S	Separate 1	0mm)						
Front side	RMC	4182/836.4	1:1	0.255	-0.03	22.90	24.00	1.288	0.329	22.3		
Back side	RMC	4182/836.4	1:1	0.342	0.02	22.90	24.00	1.288	0.441	22.3		
Left side	RMC	4182/836.4	1:1	0.237	0.03	22.90	24.00	1.288	0.305	22.3		
Right side	RMC	4182/836.4	1:1	0.264	0.15	22.90	24.00	1.288	0.340	22.3		
Bottom side	RMC	4182/836.4	1:1	0.101	0.11	22.90	24.00	1.288	0.130	22.3		

Table 13: SAR of WCDMA Band V for Head and Body.



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8.3.4 SAR Result of LTE Band 2

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
				Head Te	est Data(1F	RB)						
Left cheek	20	QPSK 1_50	18900/1880	1:1	0.143	-0.12	23.43	24.50	1.279	0.183	22.4	
Left tilted	20	QPSK 1_50	18900/1880	1:1	0.126	0.11	23.43	24.50	1.279	0.161	22.4	
Right cheek	20	QPSK 1_50	18900/1880	1:1	0.146	0.17	23.43	24.50	1.279	0.187	22.4	
Right tilted	20	QPSK 1_50	18900/1880	1:1	0.093	0.04	23.43	24.50	1.279	0.119	22.4	
			Н	ead Tes	t Data(50%	6RB)						
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.114	0.04	22.42	23.50	1.282	0.146	22.4	
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.101	0.12	22.42	23.50	1.282	0.130	22.4	
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.123	-0.09	22.42	23.50	1.282	0.158	22.4	
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.074	-0.08	22.42	23.50	1.282	0.095	22.4	
			Body worn	Test da	ta(Separa	te 15mm	1RB)					
Front side	20	QPSK 1_50	18900/1880	1:1	0.473	0.02	23.43	24.50	1.279	0.605	22.4	
Back side	20	QPSK 1_50	18900/1880	1:1	0.489	-0.03	23.43	24.50	1.279	0.626	22.4	
	Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.371	-0.12	22.42	23.50	1.282	0.476	22.4	
Back side	20	QPSK 50_0	18900/1880	1:1	0.383	0.19	22.42	23.50	1.282	0.491	22.4	
			Hotspot T	est data	(Separate	10mm 1	RB)					
Front side	20	QPSK 1_50	18900/1880	1:1	0.468	0.01	22.36	23.00	1.159	0.542	22.4	
Back side	20	QPSK 1_50	18900/1880	1:1	0.468	0.07	22.36	23.00	1.159	0.542	22.4	
Left side	20	QPSK 1_50	18900/1880	1:1	0.123	0.03	22.36	23.00	1.159	0.143	22.4	
Right side	20	QPSK 1_50	18900/1880	1:1	0.080	0.17	22.36	23.00	1.159	0.093	22.4	
Bottom side	20	QPSK 1_50	18900/1880	1:1	1.020	-0.01	22.36	23.00	1.159	1.182	22.4	
Bottom side	20	QPSK 1_50	18700/1860	1:1	1.060	-0.08	22.29	23.00	1.178	1.248	22.4	
Bottom side-Repeated	20	QPSK 1_50	18700/1860	1:1	0.983	0.02	22.29	23.00	1.178	1.158	22.4	
Bottom side	20	QPSK 1_50	19100/1900	1:1	0.964	0.19	22.31	23.00	1.172	1.130	22.4	
			Hotspot Te	st data(\$	Separate 1	0mm 50	%RB)					
Front side	20	QPSK 50_0	18900/1880	1:1	0.389	0.14	22.14	23.00	1.219	0.474	22.4	
Back side	20	QPSK 50_0	18900/1880	1:1	0.385	-0.12	22.14	23.00	1.219	0.469	22.4	
Left side	20	QPSK 50_0	18900/1880	1:1	0.094	0.09	22.14	23.00	1.219	0.115	22.4	
Right side	20	QPSK 50_0	18900/1880	1:1	0.063	0.15	22.14	23.00	1.219	0.077	22.4	
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.803	-0.03	22.14	23.00	1.219	0.979	22.4	
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.865	0.09	22.12	23.00	1.225	1.059	22.4	
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.794	-0.02	22.06	23.00	1.242	0.986	22.4	
			Hotspot Tes	t data(S	eparate 1	0mm 100)%RB)					



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							aye.	99 01 1	10		
Bottom side	20	QPSK 100_0	18900/1880	1:1	0.832	0.08	22.08	23.00	1.236	1.028	22.4
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 10- g (W/kg)	Liquid Temp.(°C)
			Hotspot Test of	lata(Sep	arate 0mn	1RB)					
Bottom side	20	QPSK 1_50	18900/1880	1:1	2.175	-0.06	23.43	24.50	1.279	2.783	22.4
Bottom side	20	QPSK 1_50	18700/1860	1:1	2.248	-0.04	23.41	24.50	1.285	2.889	22.4
Bottom side	20	QPSK 1_50	19100/1900	1:1	2.041	-0.07	23.39	24.50	1.291	2.635	22.4
		ŀ	Hotspot Test da	ta(Sepa	rate 0mm	50%RB)					
Bottom side	20	QPSK 50_0	18900/1880	1:1	2.165	-0.10	22.42	23.50	1.282	2.776	22.4
Bottom side	20	QPSK 50_0	18700/1860	1:1	2.330	0.01	22.39	23.50	1.291	3.009	22.4
Bottom side-Repeated	20	QPSK 50_0	18700/1860	1:1	2.250	0.03	22.39	23.50	1.291	2.905	22.4
Bottom side	20	QPSK 50_0	19100/1900	1:1	2.072	-0.06	22.36	23.50	1.300	2.694	22.4
Hotspot Test data(Separate 0mm 100%RB)											
Bottom side	20	QPSK 100_0		1:1	2.175	-0.12	22.41	23.50	1.285	2.795	22.4

Table 14: SAR of LTE Band 2 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	18700/1860	1.060	0.983	1.078331638	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)
Bottom side	18700/1860	2.33	2.25	1.03555556	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 3.63 W/kg (~ 10% from the 10-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 3.75 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 2 W/kg



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8.3.5 SAR Result of LTE Band 5

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(°C)
				Head Tes	st Data(1F	RB)					
Left cheek	10	QPSK 1_25	20525/836.5	1:1	0.319	0.05	23.78	25.00	1.324	0.422	22.3
Left tilted	10	QPSK 1_25	20525/836.5	1:1	0.174	-0.01	23.78	25.00	1.324	0.230	22.3
Right cheek	10	QPSK 1_25	20525/836.5	1:1	0.318	-0.09	23.78	25.00	1.324	0.421	22.3
Right tilted	10	QPSK 1_25	20525/836.5	1:1	0.162	-0.12	23.78	25.00	1.324	0.215	22.3
			ŀ	lead Test	Data(50%	6RB)					
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.254	0.06	22.74	24.00	1.337	0.339	22.3
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.136	-0.09	22.74	24.00	1.337	0.182	22.3
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.253	0.03	22.74	24.00	1.337	0.338	22.3
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.129	0.18	22.74	24.00	1.337	0.172	22.3
		•	Body wor	n Test dat	a(Separat	e 15mm	1RB)				
Front side	10	QPSK 1_25	20525/836.5	1:1	0.321	-0.01	23.78	25.00	1.324	0.425	22.3
Back side	10	QPSK 1_25	20525/836.5	1:1	0.361	-0.18	23.78	25.00	1.324	0.478	22.3
			Body worn	Test data(Separate	15mm 5	0%RB)				
Front side	10	QPSK 25_0	20525/836.5	1:1	0.235	0.16	22.74	24.00	1.337	0.314	22.3
Back side	10	QPSK 25_0	20525/836.5	1:1	0.267	0.04	22.74	24.00	1.337	0.357	22.3
			Hotspot	Test data(Separate	10mm 1	RB)				
Front side	10	QPSK 1_25	20525/836.5	1:1	0.309	-0.19	23.78	25.00	1.324	0.409	22.3
Back side	10	QPSK 1_25	20525/836.5	1:1	0.396	0.03	23.78	25.00	1.324	0.524	22.3
Left side	10	QPSK 1_25	20525/836.5	1:1	0.266	0.06	23.78	25.00	1.324	0.352	22.3
Right side	10	QPSK 1_25	20525/836.5	1:1	0.321	-0.14	23.78	25.00	1.324	0.425	22.3
Bottom side	10	QPSK 1_25	20525/836.5	1:1	0.116	-0.10	23.78	25.00	1.324	0.154	22.3
			Hotspot To	est data(S	eparate 1	0mm 509	%RB)				
Front side	10	QPSK 25_0	20525/836.5	1:1	0.306	-0.02	22.74	24.00	1.337	0.409	22.3
Back side	10	QPSK 25_0	20525/836.5	1:1	0.310	-0.03	22.74	24.00	1.337	0.414	22.3
Left side	10	QPSK 25_0	20525/836.5	1:1	0.202	-0.11	22.74	24.00	1.337	0.270	22.3
Right side	10	QPSK 25_0	20525/836.5	1:1	0.246	0.01	22.74	24.00	1.337	0.329	22.3
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.090	-0.04	22.74	24.00	1.337	0.120	22.3

Table 15: SAR of LTE Band 5 for Head and Body.



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8.3.6 SAR Result of LTE Band 7

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
			H	ead Test	Data(1RE	3)					
Left cheek	20	QPSK 1_50	21100/2535	1:1	0.008	-0.09	22.95	24.00	1.274	0.010	22.1
Left tilted	20	QPSK 1_50	21100/2535	1:1	0.007	-0.13	22.95	24.00	1.274	0.009	22.1
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.011	-0.05	22.95	24.00	1.274	0.014	22.1
Right tilted	20	QPSK 1_50	21100/2535	1:1	0.005	-0.04	22.95	24.00	1.274	0.006	22.1
			Hea	ad Test D	ata(50%F	RB)					
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.003	-0.07	21.93	23.00	1.279	0.004	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.006	0.02	21.93	23.00	1.279	0.008	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.012	0.16	21.93	23.00	1.279	0.015	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.002	-0.16	21.93	23.00	1.279	0.003	22.1
			Body worn T	est data(Separate	15mm 1	RB)		·		
Front side	20	QPSK 1_50	21100/2535	1:1	0.212	0.01	22.13	23.00	1.222	0.259	22.1
Back side	20	QPSK 1_50	21100/2535	1:1	0.250	0.06	22.13	23.00	1.222	0.305	22.1
			Body worn Te	st data(S	eparate 1	5mm 50	%RB)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.137	0.11	22.08	23.00	1.236	0.169	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.159	-0.01	22.08	23.00	1.236	0.197	22.1
			Hotspot Te	st data(S	eparate 1	0mm 1R	B)		·		
Front side	20	QPSK 1_50	21100/2535	1:1	0.321	0.10	22.95	24.00	1.274	0.409	22.1
Back side	20	QPSK 1_50	21100/2535	1:1	0.440	-0.01	22.95	24.00	1.274	0.560	22.1
Left side	20	QPSK 1_50	21100/2535	1:1	0.058	-0.02	22.95	24.00	1.274	0.074	22.1
Rightt side	20	QPSK 1_50	21100/2535	1:1	0.061	-0.17	22.95	24.00	1.274	0.078	22.1
Bottom side	20	QPSK 1_50	21100/2535	1:1	0.779	0.09	22.95	24.00	1.274	0.992	22.1
Bottom side	20	QPSK 1_50	20850/2510	1:1	0.699	0.08	22.94	24.00	1.276	0.892	22.1
Bottom side	20	QPSK 1_50	21350/2560	1:1	0.725	-0.19	22.91	24.00	1.285	0.932	22.1
			Hotspot Test	data(Sep	parate 10	mm 50%	RB)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.260	-0.03	21.93	23.00	1.279	0.333	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.345	0.17	21.93	23.00	1.279	0.441	22.1
Left side	20	QPSK 50_0	21100/2535	1:1	0.046	0.15	21.93	23.00	1.279	0.059	22.1
Rightt side	20	QPSK 50_0	21100/2535	1:1	0.046	0.01	21.93	23.00	1.279	0.059	22.1
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.562	-0.12	21.93	23.00	1.279	0.719	22.1
			Hotspot Test	data(Sep	arate 10r	nm 100%	6RB)				
Bottom side	20	QPSK 100_0	21100/2535	1:1	0.568	-0.02	21.92	23.00	1.282	0.728	22.1

Table 16: SAR of LTE Band 7 for Head and Body.



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8.3.7 SAR Result of LTE Band 12

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(°C)
			He	ead Test	Data(1Rl	3)					
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.244	0.02	23.91	25.00	1.285	0.314	22.2
Left tilted	10	QPSK 1_25	23095/707.5	1:1	0.143	-0.06	23.91	25.00	1.285	0.184	22.2
Right cheek	10	QPSK 1_25	23095/707.5	1:1	0.237	0.13	23.91	25.00	1.285	0.305	22.2
Right tilted	10	QPSK 1_25	23095/707.5	1:1	0.146	-0.02	23.91	25.00	1.285	0.188	22.2
			Hea	d Test D	ata(50%l	RB)					
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.196	-0.09	22.94	24.00	1.276	0.250	22.2
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.112	-0.17	22.94	24.00	1.276	0.143	22.2
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.190	0.07	22.94	24.00	1.276	0.243	22.2
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.118	0.01	22.94	24.00	1.276	0.151	22.2
			Body worn To	est data(Separate	15mm	1RB)			,	
Front side	10	QPSK 1_25	23095/707.5	1:1	0.335	-0.10	23.91	25.00	1.285	0.431	22.2
Back side	10	QPSK 1_25	23095/707.5	1:1	0.407	0.04	23.91	25.00	1.285	0.523	22.2
			Body worn Tes	st data(S	eparate 1	15mm 50	0%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.256	-0.10	22.94	24.00	1.276	0.327	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.311	0.19	22.94	24.00	1.276	0.397	22.2
			Hotspot Tes	t data(S	eparate 1	0mm 1F	RB)			,	
Front side	10	QPSK 1_25	23095/707.5	1:1	0.291	-0.14	23.91	25.00	1.285	0.374	22.2
Back side	10	QPSK 1_25	23095/707.5	1:1	0.416	0.07	23.91	25.00	1.285	0.535	22.2
Left side	10	QPSK 1_25	23095/707.5	1:1	0.321	-0.19	23.91	25.00	1.285	0.413	22.2
Right side	10	QPSK 1_25	23095/707.5	1:1	0.318	-0.07	23.91	25.00	1.285	0.409	22.2
Bottom side	10	QPSK 1_25	23095/707.5	1:1	0.064	0.02	23.91	25.00	1.285	0.082	22.2
			Hotspot Test	data(Sep	parate 10	mm 50%	6RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.232	-0.12	22.94	24.00	1.276	0.296	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.327	0.10	22.94	24.00	1.276	0.417	22.2
Left side	10	QPSK 25_0	23095/707.5	1:1	0.259	-0.17	22.94	24.00	1.276	0.331	22.2
Right side	10	QPSK 25_0	23095/707.5	1:1	0.257	0.07	22.94	24.00	1.276	0.328	22.2
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.053	-0.09	22.94	24.00	1.276	0.068	22.2

Table 17: SAR of LTE Band 12 for Head and Body.



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8.3.8 SAR Result of LTE Band 14

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
				H	ead Test	Data(1RE	3)				
Left cheek	10	QPSK 1_25	23330/793	1:1	0.307	0.07	23.79	25.00	1.321	0.406	22.2
Left tilted	10	QPSK 1_25	23330/793	1:1	0.173	-0.13	23.79	25.00	1.321	0.229	22.2
Right cheek	10	QPSK 1_25	23330/793	1:1	0.299	0.18	23.79	25.00	1.321	0.395	22.2
Right tilted	10	QPSK 1_25	23330/793	1:1	0.143	-0.07	23.79	25.00	1.321	0.189	22.2
				Hea	ad Test D	ata(50%F	RB)				
Left cheek	10	QPSK 25_0	23330/793	1:1	0.254	-0.15	22.86	24.00	1.300	0.330	22.2
Left tilted	10	QPSK 25_0	23330/793	1:1	0.145	0.01	22.86	24.00	1.300	0.189	22.2
Right cheek	10	QPSK 25_0	23330/793	1:1	0.247	0.05	22.86	24.00	1.300	0.321	22.2
Right tilted	10	QPSK 25_0	23330/793	1:1	0.121	-0.05	22.86	24.00	1.300	0.157	22.2
			Boo	y worn T	est data(Separate	15mm 1RB)				
Front side	10	QPSK 1_25	23330/793	1:1	0.321	0.11	23.79	25.00	1.321	0.424	22.2
Back side	10	QPSK 1_25	23330/793	1:1	0.357	0.02	23.79	25.00	1.321	0.472	22.2
			Body	worn Te	st data(S	eparate 1	5mm 50%RB)				
Front side	10	QPSK 25_0	23330/793	1:1	0.250	-0.02	22.86	24.00	1.300	0.325	22.2
Back side	10	QPSK 25_0	23330/793	1:1	0.275	0.14	22.86	24.00	1.300	0.358	22.2
			Ho	tspot Te	st data(Se	eparate 1	0mm 1RB)				
Front side	10	QPSK 1_25	23330/793	1:1	0.295	-0.10	23.79	25.00	1.321	0.390	22.2
Back side	10	QPSK 1_25	23330/793	1:1	0.380	-0.01	23.79	25.00	1.321	0.502	22.2
Left side	10	QPSK 1_25	23330/793	1:1	0.269	0.05	23.79	25.00	1.321	0.355	22.2
Right side	10	QPSK 1_25	23330/793	1:1	0.312	0.12	23.79	25.00	1.321	0.412	22.2
Bottom side	10	QPSK 1_25	23330/793	1:1	0.092	-0.07	23.79	25.00	1.321	0.122	22.2
			Hots	pot Test	data(Sep	arate 10ı	mm 50%RB)				
Front side	10	QPSK 25_0	23330/793	1:1	0.241	-0.07	22.86	24.00	1.300	0.313	22.2
Back side	10	QPSK 25_0	23330/793	1:1	0.311	0.04	22.86	24.00	1.300	0.404	22.2
Left side	10	QPSK 25_0	23330/793	1:1	0.228	0.02	22.86	24.00	1.300	0.296	22.2
Right side	10	QPSK 25_0	23330/793	1:1	0.252	0.13	22.86	24.00	1.300	0.328	22.2
Bottom side	10	QPSK 25_0	23330/793	1:1	0.076	0.05	22.86	24.00	1.300	0.099	22.2

Table 18: SAR of LTE Band 14 for Head and Body.



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8.3.9 SAR Result of LTE Band 30

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
				H	ead Test	Data(1RE	3)				
Left cheek	10	QPSK 1_25	27710/2310	1:1	0.119	-0.09	22.69	24.00	1.352	0.161	22.3
Left tilted	10	QPSK 1_25	27710/2310	1:1	0.133	0.19	22.69	24.00	1.352	0.180	22.3
Right cheek	10	QPSK 1_25	27710/2310	1:1	0.113	0.00	22.69	24.00	1.352	0.153	22.3
Right tilted	10	QPSK 1_25	27710/2310	1:1	0.092	-0.18	22.69	24.00	1.352	0.124	22.3
				Hea	ad Test D	ata(50%F	RB)				
Left cheek	10	QPSK 25_0	27710/2310	1:1	0.102	0.17	21.81	23.00	1.315	0.134	22.3
Left tilted	10	QPSK 25_0	27710/2310	1:1	0.104	-0.05	21.81	23.00	1.315	0.137	22.3
Right cheek	10	QPSK 25_0	27710/2310	1:1	0.095	0.13	21.81	23.00	1.315	0.125	22.3
Right tilted	10	QPSK 25_0	27710/2310	1:1	0.075	0.10	21.81	23.00	1.315	0.099	22.3
			Boo	ly worn T	est data(Separate	15mm 1RB)				
Front side	10	QPSK 1_25	27710/2310	1:1	0.279	0.05	22.69	24.00	1.352	0.377	22.3
Back side	10	QPSK 1_25	27710/2310	1:1	0.394	-0.16	22.69	24.00	1.352	0.533	22.3
			Body	worn Te	st data(Se	eparate 1	5mm 50%RB)				
Front side	10	QPSK 25_0	27710/2310	1:1	0.207	-0.05	21.81	23.00	1.315	0.272	22.3
Back side	10	QPSK 25_0	27710/2310	1:1	0.295	0.05	21.81	23.00	1.315	0.388	22.3
			Ho	tspot Te	st data(Se	eparate 1	0mm 1RB)				
Front side	10	QPSK 1_25	27710/2310	1:1	0.365	-0.16	22.69	24.00	1.352	0.494	22.3
Back side	10	QPSK 1_25	27710/2310	1:1	0.633	0.02	22.69	24.00	1.352	0.856	22.3
Left side	10	QPSK 1_25	27710/2310	1:1	0.253	0.10	22.69	24.00	1.352	0.342	22.3
Right side	10	QPSK 1_25	27710/2310	1:1	0.178	-0.09	22.69	24.00	1.352	0.241	22.3
Bottom side	10	QPSK 1_25	27710/2310	1:1	0.783	0.11	22.69	24.00	1.352	1.059	22.3
		T		pot Test			mm 50%RB)			1	
Front side	10	QPSK 25_0	27710/2310	1:1	0.309	-0.02	21.81	23.00	1.315	0.406	22.3
Back side	10	QPSK 25_0	27710/2310	1:1	0.469	0.01	21.81	23.00	1.315	0.617	22.3
Left side	10	QPSK 25_0	27710/2310	1:1	0.210	0.08	21.81	23.00	1.315	0.276	22.3
Right side	10	QPSK 25_0	27710/2310	1:1	0.141	-0.13	21.81	23.00	1.315	0.185	22.3
Bottom side	10	QPSK 25_0	27710/2310	1:1	0.653	-0.03	21.81	23.00	1.315	0.859	22.3
				pot Test			nm 100%RB)		•	,	
Back side	10	QPSK 50_0	27710/2310	1:1	0.455	0.03	21.81	23.00	1.315	0.598	22.3
Bottom side	10	QPSK 50_0	27710/2310	1:1	0.648	0.01	21.81	23.00	1.315	0.852	22.3

Table 19: SAR of LTE Band 30 for Head and Body.



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8.3.10 SAR Result of LTE Band 66

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
			ŀ	Head Tes	st Data(1	RB)					
Left cheek	20	QPSK 1_50	132322/1745	1:1	0.086	-0.10	23.71	24.50	1.199	0.103	22.5
Left tilted	20	QPSK 1_50	132322/1745	1:1	0.067	0.14	23.71	24.50	1.199	0.080	22.5
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.125	0.06	23.71	24.50	1.199	0.150	22.5
Right tilted	20	QPSK 1_50	132322/1745	1:1	0.053	-0.08	23.71	24.50	1.199	0.064	22.5
			He	ead Test	Data(50	%RB)					
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.068	-0.19	22.69	23.50	1.205	0.082	22.5
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.052	0.16	22.69	23.50	1.205	0.063	22.5
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.096	-0.02	22.69	23.50	1.205	0.116	22.5
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.046	0.01	22.69	23.50	1.205	0.055	22.5
			Body worn	Test dat	a(Separa	ate 15mr	n 1RB)				
Front side	20	QPSK 1_50	132322/1745	1:1	0.396	-0.07	21.66	22.50	1.213	0.481	22.5
Back side	20	QPSK 1_50	132322/1745	1:1	0.435	0.03	21.66	22.50	1.213	0.528	22.5
			Body worn T	est data(Separate	e 15mm	50%RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.372	-0.12	21.51	22.50	1.256	0.467	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.421	0.02	21.51	22.50	1.256	0.529	22.5
		•	Hotspot To	est data(Separate	e 10mm	1RB)		•		•
Front side	20	QPSK 1_50	132322/1745	1:1	0.486	0.13	21.66	22.50	1.213	0.590	22.5
Back side	20	QPSK 1_50	132322/1745	1:1	0.539	0.01	21.66	22.50	1.213	0.654	22.5
Left side	20	QPSK 1_50	132322/1745	1:1	0.058	0.16	21.66	22.50	1.213	0.070	22.5
Right side	20	QPSK 1_50	132322/1745	1:1	0.081	-0.17	21.66	22.50	1.213	0.098	22.5
Bottom side	20	QPSK 1_50	132322/1745	1:1	0.957	-0.03	21.66	22.50	1.213	1.161	22.5
Bottom side-Repeated	20	QPSK 1_50	132322/1745	1:1	0.952	0.02	21.66	22.50	1.213	1.155	22.5
Bottom side	20	QPSK 1_50	132072/1720	1:1	0.895	0.04	21.60	22.50	1.230	1.101	22.5
Bottom side	20	QPSK 1_50	132572/1770	1:1	0.932	0.08	21.58	22.50	1.236	1.152	22.5
			Hotspot Tes	st data(S	eparate	10mm 5	0%RB)				•
Front side	20	QPSK 50_0	132322/1745	1:1	0.390	0.03	21.51	22.50	1.256	0.490	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.421	0.19	21.51	22.50	1.256	0.529	22.5
Left side	20	QPSK 50_0	132322/1745	1:1	0.047	0.15	21.51	22.50	1.256	0.059	22.5
Right side	20	QPSK 50_0	132322/1745	1:1	0.066	-0.01	21.51	22.50	1.256	0.083	22.5
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.784	-0.10	21.51	22.50	1.256	0.985	22.5
Bottom side	20	QPSK 50_0	132072/1720	1:1	0.715	0.02	21.46	22.50	1.271	0.908	22.5
Bottom side	20	QPSK 50_0	132572/1770	1:1	0.743	0.05	21.49	22.50	1.262	0.938	22.5
			Hotspot Tes	t data(Se	eparate 1	0mm 10	00%RB)				
Bottom side	20	QPSK 100_0	132322/1745	1:1	0.390	0.03	21.44	22.50	1.276	0.498	22.5

Table 20: SAR of LTE Band 66 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	132322/1745	0.957	0.952	1.005252101	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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8.3.11 SAR Result of WIFI 2.4G

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	
					Head Tes	t data					
Left cheek	802.11b	1/2412	100%	1.000	1.030	0.02	19.46	20.00	1.132	1.166	22.4
Left cheek-Repeated	802.11b	1/2412	100%	1.000	0.974	0.03	19.46	20.00	1.132	1.103	22.4
Left cheek	802.11b	6/2437	100%	1.000	0.931	0.01	19.26	20.00	1.186	1.104	22.4
Left cheek	802.11b	11/2462	100%	1.000	0.955	0.11	19.35	20.00	1.161	1.109	22.4
Left tilted	802.11b	1/2412	100%	1.000	0.806	0.09	19.46	20.00	1.132	0.913	22.4
Left tilted	802.11b	6/2437	100%	1.000	0.788	0.06	19.26	20.00	1.186	0.934	22.4
Left tilted	802.11b	11/2462	100%	1.000	0.801	0.07	19.35	20.00	1.161	0.930	22.4
Right cheek	802.11b	1/2412	100%	1.000	0.368	-0.18	19.46	20.00	1.132	0.417	22.4
Right tilted	802.11b	1/2412	100%	1.000	0.320	0.07	19.46	20.00	1.132	0.362	22.4
	•	•		Body worn	Test data	Separate 1	15mm)	•			
Front side	802.11b	1/2412	100%	1.000	0.147	0.01	19.46	20.00	1.132	0.166	22.4
Back side	802.11b	1/2412	100%	1.000	0.172	-0.04	19.46	20.00	1.132	0.195	22.4
				Hotspot T	est data (S	Separate 10	Omm)				
Front side	802.11b	1/2412	100%	1.000	0.236	0.09	19.46	20.00	1.132	0.267	22.4
Back side	802.11b	1/2412	100%	1.000	0.294	-0.08	19.46	20.00	1.132	0.333	22.4
Right side	802.11b	1/2412	100%	1.000	0.365	0.01	19.46	20.00	1.132	0.413	22.4
Top side	802.11b	1/2412	100%	1.000	0.242	-0.07	19.46	20.00	1.132	0.274	22.4
			H	ead Test dat	ta Simultai	neous Tran	smission				
Left cheek	802.11b	1/2412	100%	1.000	1.030	0.02	19.46	19.00	0.899	0.926	22.4
Left cheek	802.11b	6/2437	100%	1.000	0.931	0.01	19.26	19.00	0.942	0.877	22.4
Left cheek	802.11b	11/2462	100%	1.000	0.955	0.11	19.35	19.00	0.923	0.881	22.4
Left tilted	802.11b	1/2412	100%	1.000	0.806	0.09	19.46	19.00	0.899	0.725	22.4
Left tilted	802.11b	6/2437	100%	1.000	0.788	0.06	19.26	19.00	0.942	0.742	22.4
Left tilted	802.11b	11/2462	100%	1.000	0.801	0.07	19.35	19.00	0.923	0.739	22.4
Right cheek	802.11b	1/2412	100%	1.000	0.368	-0.18	19.46	19.00	0.899	0.331	22.4
Right tilted	802.11b	1/2412	100%	1.000	0.320	0.07	19.46	19.00	0.899	0.288	22.4

Table 21: SAR of WIFI 2.4G for Head and Body.

Note:

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(19)	SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	1/2412	1.03	0.974	1.057494867	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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8.3.12SAR Result of WIFI 5G

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
				Head 1	est data of	U-NII-2A					
Left cheek	802.11ac 80M	58/5290	100%	1.000	0.767	0.10	15.61	17.00	1.377	1.056	22.3
Left tilted	802.11ac 80M	58/5290	100%	1.000	0.843	-0.04	15.61	17.00	1.377	1.161	22.3
Left tilted-Repeated	802.11ac 80M	58/5290	100%	1.000	0.831	0.03	15.61	17.00	1.377	1.144	22.3
Right cheek	802.11ac 80M	58/5290	100%	1.000	0.491	-0.08	15.61	17.00	1.377	0.676	22.3
Right tilted	802.11ac 80M	58/5290	100%	1.000	0.520	-0.17	15.61	17.00	1.377	0.716	22.3
	1	1			est data of	U-NII-2C			1	ı	1
Left cheek	802.11ac 80M		100%	1.000	0.596	-0.17	17.93	18.50	1.140	0.680	22.2
Left tilted	802.11ac 80M		100%	1.000	0.638	0.07	17.93	18.50	1.140	0.727	22.2
Left tilted	802.11ac 80M		100%	1.000	0.594	0.02	17.86	18.50	1.159	0.688	22.2
Right cheek	802.11ac 80M		100%	1.000	0.426	-0.11	17.93	18.50	1.140	0.486	22.2
Right tilted	802.11ac 80M	122/5610	100%	1.000	0.418	0.03	17.93	18.50	1.140	0.477	22.2
	1	1			Test data of		1		1	T	1
Left cheek	802.11ac 80M		100%	1.000	0.312	-0.12	17.82	18.50	1.169	0.365	22.4
Left tilted	802.11ac 80M		100%	1.000	0.322	0.05	17.82	18.50	1.169	0.377	22.4
Right cheek	802.11ac 80M		100%	1.000	0.233	-0.18	17.82	18.50	1.169	0.272	22.4
Right tilted	802.11ac 80M	155/5775	100%	1.000	0.238	0.02	17.82	18.50	1.169	0.278	22.4
	1000 44 0004				ata of U-NII-			10.50	1		1
Front side	802.11ac 80M	58/5290	100%	1.000	0.140	0.02	17.51	18.50	1.256	0.176	22.3
Back side	802.11ac 80M	58/5290	100%	1.000	0.155	-0.04	17.51	18.50	1.256	0.195	22.3
Formet alle	000 44 - 0014	400/5040			ata of U-NII-			40.50	1 4 4 4 0	0.007	1 00 0
Front side	802.11ac 80M		100%	1.000	0.076	0.07	17.93	18.50	1.140	0.087	22.2
Back side	802.11ac 80M	122/5610	100%	1.000	0.236	-0.06	17.93	18.50	1.140	0.269	22.2
Front side	802.11ac 80M	155/5775	100%	1.000	ata of U-NII 0.203	0.09	17.82	18.50	1.169	0.237	22.4
Back side	802.11ac 80M		100%	1.000	0.203	0.09	17.82	18.50	1.169	0.237	22.4
Dack side	002.1 Tac 00W	133/3773			ta of U-NII-			10.50	1.103	0.332	22.4
Front side	802.11ac 80M	42/5210	100%	1.000	0.226	0.01	17.46	18.50	1.271	0.287	22.3
Back side	802.11ac 80M	42/5210	100%	1.000	0.216	0.04	17.46	18.50	1.271	0.274	22.3
Right side	802.11ac 80M	42/5210	100%	1.000	0.263	0.08	17.46	18.50	1.271	0.334	22.3
Top side	802.11ac 80M	42/5210	100%	1.000	0.419	-0.07	17.46	18.50	1.271	0.532	22.3
1 op olde	002.1140 0011	42/02 10			ta of U-NII-3			10.00	1.271	0.002	22.0
Front side	802.11ac 80M	155/5775	100%	1.000	0.147	0.11	17.82	18.50	1.169	0.172	22.4
Back side	802.11ac 80M			1.000	0.472	-0.09	17.82	18.50	1.169	0.552	22.4
Right side	802.11ac 80M		100%	1.000	0.333	0.02	17.82	18.50	1.169	0.389	22.4
Top side	802.11ac 80M		100%	1.000	0.358	0.08	17.82	18.50	1.169	0.419	22.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up	Scaled	Scaled SAR 10-g (W/kg)	Liquid
		Produ	ct specif	ic 10gSAR	Test data o	of U-NII-2/	A(Separate 0m	im)			
Front side	802.11ac 80M	58/5290	100%	1.000	0.686	0.01	17.51	18.50	1.256	0.862	22.3
Back side	802.11ac 80M	58/5290	100%	1.000	0.346	0.02	17.51	18.50	1.256	0.435	22.3
Right side	802.11ac 80M	58/5290	100%	1.000	0.451	-0.08	17.51	18.50	1.256	0.566	22.3
Top side	802.11ac 80M	58/5290	100%	1.000	0.850	0.06	17.51	18.50	1.256	1.068	22.3



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		Produ	ct specif	ic 10gSAR	Test data c	f U-NII-20	C(Separate 0m	nm)			
Front side	802.11ac 80M	122/5610	100%	1.000	0.384	0.09	17.82	18.50	1.169	0.449	22.2
Back side	802.11ac 80M	122/5610	100%	1.000	0.320	0.01	17.82	18.50	1.169	0.374	22.2
Right side	802.11ac 80M	122/5610	100%	1.000	0.547	0.04	17.82	18.50	1.169	0.640	22.2
Top side	802.11ac 80M	122/5610	100%	1.000	0.845	-0.06	17.82	18.50	1.169	0.988	22.2
		Wi-l	Fi 5G SA	AR Test Re	ecord Simu	Itaneous	Transmission	1			
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
				Head T	Test data of	U-NII-2A					
Left cheek	802.11ac 80M	58/5290	100%	1.000	0.767	0.10	15.61	16.00	1.094	0.839	22.3
Left tilted	802.11ac 80M	58/5290	100%	1.000	0.843	-0.04	15.61	16.00	1.094	0.922	22.3
Left tilted-Repeated	802.11ac 80M	58/5290	100%	1.000	0.831	0.03	15.61	16.00	1.094	0.909	22.3
Right cheek	802.11ac 80M	58/5290	100%	1.000	0.491	-0.08	15.61	16.00	1.094	0.537	22.3
Right tilted	802.11ac 80M	58/5290	100%	1.000	0.520	-0.17	15.61	16.00	1.094	0.569	22.3
	,			Head T	est data of	U-NII-2C					
Left cheek	802.11ac 80M	122/5610	100%	1.000	0.596	-0.17	17.93	18.50	1.140	0.680	22.2
Left tilted	802.11ac 80M	122/5610	100%	1.000	0.638	0.07	17.93	18.50	1.140	0.727	22.2
Left tilted	802.11ac 80M	106/5530	100%	1.000	0.594	0.02	17.86	18.50	1.159	0.688	22.2
Right cheek	802.11ac 80M	122/5610	100%	1.000	0.426	-0.11	17.93	18.50	1.140	0.486	22.2
Right tilted	802.11ac 80M	122/5610	100%	1.000	0.418	0.03	17.93	18.50	1.140	0.477	22.2
				Head	Test data of	U-NII-3					
Left cheek	802.11ac 80M	155/5775	100%	1.000	0.312	-0.12	17.82	18.50	1.169	0.365	22.4
Left tilted	802.11ac 80M	155/5775	100%	1.000	0.322	0.05	17.82	18.50	1.169	0.377	22.4
Right cheek	802.11ac 80M	155/5775	100%	1.000	0.233	-0.18	17.82	18.50	1.169	0.272	22.4
Right tilted	802.11ac 80M	155/5775	100%	1.000	0.238	0.02	17.82	18.50	1.169	0.278	22.4

Table 22: SAR of WIFI 5G for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1.9)	SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	58/5290	0.843	0.831	1.014440433	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.13 SAR Result of BT

Freq. Band	Frequency (GHz)	Test Position	max. power(dBm)	Test Separation (mm)	Estimated 1g SAR (W/kg)
	2.48	Head	5	0	0.133
Bluetooth		Body-worn	5	15	0.044
		hotspot	5	10	0.066

Table 23: SAR of BT for Head and Body.

Note:

The BT SAR result can refer to "8.2 Stand-alone SAR test evaluation".



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Support
1	WWAN+BT	Yes
2	WWAN+WIFI 2.4G	Yes
3	BT+WIFI 2.4G	No
4	WWAN+WIFI5G	Yes
5	WIFI5G+BT	Yes
6	WWAN+WIFI5G+BT	Yes

Note:

1) The device does not support DTM function.





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8.4.2 Simultaneous Transmission SAR Summation Scenario

Simultaneous Transmission SAR Summation Scenario for WLAN Head:

		SARmax (W/kg)					
Test	position	Main Ant0	WiFi 2.4G Ant6(chain0)	WiFi 5G Ant6(chain0)	ВТ	Summed SAR	
Left cheek		1	2	3	4	1+2	1+3+4
	Left cheek	0.135	0.926	0.839	0.133	1.061	1.107
WCDMA II	Left tilted	0.113	0.742	0.922	0.133	0.855	1.168
WCDIVIA II	Right cheek	0.141	0.331	0.537	0.133	0.472	0.811
	Right tilted	0.090	0.288	0.569	0.133	0.378	0.792
	Left cheek	0.075	0.926	0.839	0.133	1.001	1.047
\\(CD\\\\\\\\	Left tilted	0.051	0.742	0.922	0.133	0.793	1.106
WCDMA IV	Right cheek	0.114	0.331	0.537	0.133	0.445	0.784
	Right tilted	0.051	0.288	0.569	0.133	0.339	0.753
	Left cheek	0.327	0.926	0.839	0.133	1.253	1.299
MCDMA M	Left tilted	0.188	0.742	0.922	0.133	0.930	1.243
WCDMA V	Right cheek	0.321	0.331	0.537	0.133	0.652	0.991
	Right tilted	0.161	0.288	0.569	0.133	0.449	0.863
	Left cheek	0.183	0.926	0.839	0.133	1.109	1.155
	Left tilted	0.161	0.742	0.922	0.133	0.903	1.216
LTE Band 2	Right cheek	0.187	0.331	0.537	0.133	0.518	0.857
	Right tilted	0.119	0.288	0.569	0.133	0.407	0.821
	Left cheek	0.422	0.926	0.839	0.133	1.348	1.394
	Left tilted	0.230	0.742	0.922	0.133	0.972	1.285
LTE Band 5	Right cheek	0.421	0.331	0.537	0.133	0.752	1.091
	Right tilted	0.215	0.288	0.569	0.133	0.503	0.917
	Left cheek	0.010	0.926	0.839	0.133	0.936	0.982
	Left tilted	0.009	0.742	0.922	0.133	0.751	1.064
LTE Band 7	Right cheek	0.015	0.331	0.537	0.133	0.346	0.685
	Right tilted	0.006	0.288	0.569	0.133	0.294	0.708
	Left cheek	0.314	0.926	0.839	0.133	1.240	1.286
LTE David 40	Left tilted	0.184	0.742	0.922	0.133	0.926	1.239
LTE Band 12	Right cheek	0.305	0.331	0.537	0.133	0.636	0.975
	Right tilted	0.188	0.288	0.569	0.133	0.476	0.890
	Left cheek	0.406	0.926	0.839	0.133	1.332	1.378
	Left tilted	0.229	0.742	0.922	0.133	0.971	1.284
LTE Band 14	Right cheek	0.395	0.331	0.537	0.133	0.726	1.065
	Right tilted	0.189	0.288	0.569	0.133	0.477	0.891
	Left cheek	0.161	0.926	0.839	0.133	1.087	1.133
LTE Band 30	Left tilted	0.180	0.742	0.922	0.133	0.922	1.235
	Right cheek	0.153	0.331	0.537	0.133	0.484	0.823
	Right tilted	0.124	0.288	0.569	0.133	0.412	0.826
	Left cheek	0.103	0.926	0.839	0.133	1.029	1.075
	Left tilted	0.080	0.742	0.922	0.133	0.822	1.135
LTE Band 66	Right cheek	0.150	0.331	0.537	0.133	0.481	0.820
Ī	Right tilted	0.064	0.288	0.569	0.133	0.352	0.766



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Simultaneous Transmission SAR Summation Scenario for WLAN Body:

Body-worn:

Test position			SARmax	(W/kg)			
		Main Ant0	WiFi 2.4G Ant6(chain0)	WiFi 5G Ant6(chain0)	ВТ	Summ	ed SAR
		1	2	3	4	1+2	1+3+4
WCDMA II	Front side	0.501	0.166	0.237	0.044	0.667	0.782
WCDIVIA II	Back side	0.448	0.195	0.352	0.044	0.643	0.844
WCDMA IV	Front side	0.531	0.166	0.237	0.044	0.697	0.812
WCDMA IV	Back side	0.665	0.195	0.352	0.044	0.860	1.061
MCDMAN.	Front side	0.368	0.166	0.237	0.044	0.534	0.649
WCDMA V	Back side	0.444	0.195	0.352	0.044	0.639	0.840
LTE Daniel O	Front side	0.605	0.166	0.237	0.044	0.771	0.886
LTE Band 2	Back side	0.626	0.195	0.352	0.044	0.821	1.022
LTE Daniel E	Front side	0.425	0.166	0.237	0.044	0.591	0.706
LTE Band 5	Back side	0.478	0.195	0.352	0.044	0.673	0.874
LTC Danid 7	Front side	0.259	0.166	0.237	0.044	0.425	0.540
LTE Band 7	Back side	0.305	0.195	0.352	0.044	0.500	0.701
LTE Band 12	Front side	0.431	0.166	0.237	0.044	0.597	0.712
LIE Band 12	Back side	0.523	0.195	0.352	0.044	0.718	0.919
LTE David 4.4	Front side	0.424	0.166	0.237	0.044	0.590	0.705
LTE Band 14	Back side	0.472	0.195	0.352	0.044	0.667	0.868
LTE D1 20	Front side	0.377	0.166	0.237	0.044	0.543	0.658
LTE Band 30	Back side	0.533	0.195	0.352	0.044	0.728	0.929
LTC Dand 60	Front side	0.481	0.166	0.237	0.044	0.647	0.762
LTE Band 66	Back side	0.529	0.195	0.352	0.044	0.724	0.925

Hotspot:

			SARmax				
Test position		Main Ant0	WiFi 2.4G Ant6(chain0)	WiFi 5G Ant6(chain0)	ВТ	Summ	ed SAR
		1	2	3	4	1+2	1+3+4
	Front side	0.598	0.267	0.287	0.066	0.865	0.951
	Back side	0.590	0.333	0.552	0.066	0.923	1.208
WCDMA II	Left side	0.145	1	1	0.066	0.145	0.211
WCDINATI	Right side	0.105	0.413	0.389	0.066	0.518	0.560
	Top side	/	0.274	0.532	0.066	0.274	0.598
	Bottom side	1.297	1	1	0.066	1.297	1.363
	Front side	0.610	0.267	0.287	0.066	0.877	0.963
	Back side	0.669	0.333	0.552	0.066	1.002	1.287
WCDMA IV	Left side	0.073	1	1	0.066	0.073	0.139
	Right side	0.087	0.413	0.389	0.066	0.500	0.542
	Top side	1	0.274	0.532	0.066	0.274	0.598



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				Page:	113 011	10	
	Bottom side	1.222	1	1	0.066	1.222	1.288
	Front side	0.329	0.267	0.287	0.066	0.596	0.682
WCDMA V	Back side	0.441	0.333	0.552	0.066	0.774	1.059
	Left side	0.305	1	1	0.066	0.305	0.371
WCDMA V	Right side	0.340	0.413	0.389	0.066	0.753	0.795
	Top side	1	0.274	0.532	0.066	0.274	0.598
	Bottom side	0.130	1	1	0.066	0.130	0.196
	Front side	0.542	0.267	0.287	0.066	0.809	0.895
	Back side	0.542	0.333	0.552	0.066	0.875	1.160
LTC D10	Left side	0.143	1	1	0.066	0.143	0.209
LTE Band 2	Right side	0.093	0.413	0.389	0.066	0.506	0.548
	Top side	1	0.274	0.532	0.066	0.274	0.598
	Bottom side	1.248	1	/	0.066	1.248	1.314
	Front side	0.409	0.267	0.287	0.066	0.676	0.762
	Back side	0.524	0.333	0.552	0.066	0.857	1.142
1.TE D 1.E	Left side	0.352	1	/	0.066	0.352	0.418
LTE Band 5	Right side	0.425	0.413	0.389	0.066	0.838	0.880
	Top side	/	0.274	0.532	0.066	0.274	0.598
	Bottom side	0.154	1	1	0.066	0.154	0.220
	Front side	0.409	0.267	0.287	0.066	0.676	0.762
	Back side	0.560	0.333	0.552	0.066	0.893	1.178
	Left side	0.074	1	1	0.066	0.074	0.140
LTE Band 7	Right side	/	0.413	0.389	0.066	0.413	0.455
	Top side	/	0.274	0.532	0.066	0.274	0.598
	Bottom side	0.992	1	/	0.066	0.992	1.058
	Front side	0.374	0.267	0.287	0.066	0.641	0.727
	Back side	0.535	0.333	0.552	0.066	0.868	1.153
LTC D140	Left side	0.413	1	1	0.066	0.413	0.479
LTE Band 12	Right side	0.409	0.413	0.389	0.066	0.822	0.864
	Top side	1	0.274	0.532	0.066	0.274	0.598
	Bottom side	0.082	1	1	0.066	0.082	0.148
	Front side	0.390	0.267	0.287	0.066	0.657	0.743
	Back side	0.502	0.333	0.552	0.066	0.835	1.120
LTC Dand 14	Left side	0.355	1	1	0.066	0.355	0.421
LTE Band 14	Right side	0.412	0.413	0.389	0.066	0.825	0.867
	Top side	/	0.274	0.532	0.066	0.274	0.598
	Bottom side	0.122	1	1	0.066	0.122	0.188
	Front side	0.494	0.267	0.287	0.066	0.761	0.847
	Back side	0.856	0.333	0.552	0.066	1.189	1.474
LTC Dand 20	Left side	0.342	1	/	0.066	0.342	0.408
LTE Band 30	Right side	0.241	0.413	0.389	0.066	0.654	0.696
	Top side	1	0.274	0.532	0.066	0.274	0.598
	Bottom side	1.059	1	/	0.066	1.059	1.125



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LTE Band 66	Front side	0.590	0.267	0.287	0.066	0.857	0.943
	Back side	0.654	0.333	0.552	0.066	0.987	1.272
	Left side	0.070	1	1	0.066	0.070	0.136
	Right side	0.098	0.413	0.389	0.066	0.511	0.553
	Top side	1	0.274	0.532	0.066	0.274	0.598
	Bottom side	1.161	1	1	0.066	1.161	1.227

Extermity:

Externity.		SA	Rmax (W/kg)	
Tes	Test position		WiFi 5G Ant6(chain0)	Summed SAR
		1	2	1+2
	Front side	1	0.862	0.862
	Back side	1	1	1
WCDMA II	Left side	1	1	1
WCDIVIA II	Right side	1	0.640	0.640
	Top side	1	1.068	1.068
	Bottom side	3.106	/	3.106
	Front side	1	0.862	0.862
	Back side	1	/	1
WCDMA IV	Left side	1	/	1
WCDIVIA IV	Right side	1	0.640	0.640
	Top side	1	1.068	1.068
	Bottom side	3.174	/	3.174
	Front side	1	0.862	0.862
	Back side	1	/	1
LTE Band 2	Left side	1	1	1
LIE Danu Z	Right side	1	0.640	0.640
	Top side	1	1.068	1.068
	Bottom side	3.009	/	3.009



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Fauinment list

<u>9</u>	Equipment list								
	Test Platform	SPEAG DASY	5 Professional						
	Description	SAR Test System (Frequency range 300MHz-6GHz)							
	Software Reference	DASY52 52.10	.4(1527); SEMC	AD X 14.6.14(7483)				
		На	rdware Referen	се					
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration			
\boxtimes	Twin Phantom	SPEAG	QD000P40CD	1770	NCR	NCR			
\boxtimes	DAE	SPEAG	DAE4	1324	2022-10-17	2023-10-16			
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3793	2022-09-30	2023-09-29			
\boxtimes	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07			
\boxtimes	Validation Kits	SPEAG	D835V2	4d161	2020-08-28	2023-08-27			
\boxtimes	Validation Kits	SPEAG	1750V2	1038	2020-08-29	2023-08-28			
\boxtimes	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26			
\boxtimes	Validation Kits	SPEAG	D2300V2	1072	2022-06-16	2025-06-15			
\boxtimes	Validation Kits	SPEAG	D2450V2	922	2020-08-27	2023-08-26			
\boxtimes	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11			
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1313	2021-01-25	2024-01-24			
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	21460031	2023-03-20	2024-03-19			
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	111637	2022-09-26	2023-09-26			
	Universal Radio Communication Tester	R&S	CMW500	111637	2022-09-26	2023-09-26			
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR			
\boxtimes	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05			
	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR			
\boxtimes	Power Sensor	Keysight	U2002H	MY5639004	2022-9-16	2023-09-15			
\boxtimes	Power Sensor	Keysight	U2002H	MY48200110	2022-12-23	2023-12-22			
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR			
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR			
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR			
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR			
\boxtimes	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2022-09-19	2023-09-18			
	Humidity and Temperature	MingGao	MingGao	NA	2022-09-19	2023-09-18			

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



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10 Calibration certificate

Please see the Appendix C

11 **Photographs**

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs



