

Report No. : SA200918W001

Applicant : Lenovo(Shanghai) Electronics Technology Co., Ltd.

Address : Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot

Free Trade Zone

Product : Portable Tablet Computer

FCC ID : O57TBX605LC

Brand : Lenovo

Model No. : Lenovo TB-X605LC

Standards : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2013

KDB 865664 D01 v01r04 / KDB 865664 D02 v01r02 KDB 248227 D01 v02r02 / KDB 447498 D01 v06 KDB 616217 D04 v01r02 / KDB 941225 D01 v03r01

KDB 941225 D05 v02r05

Sample Received Date : Sep. 18, 2020

Date of Testing : Oct. 03, 2020 ~ Oct. 11, 2020

CERTIFICATION: The above equipment have been tested by **BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by A2LA or any government agencies.

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Release Control Record

Report No.	Reason for Change	Date Issued
SA200918W001	Initial release	Oct. 27, 2020

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1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Body SAR _{1g} (W/kg)
	WCDMA II	0.95
	WCDMA V	1.08
	LTE 5	0.71
PCB	LTE 7	1.20
	LTE 26	0.72
	LTE 38	1.08
	LTE 41	1.04
DTS	2.4G WLAN	1.14
	5.2G WLAN	N/A
AIII	5.3G WLAN	1.28
NII	5.6G WLAN	<mark>1.29</mark>
	5.8G WLAN	1.28
DSS	Bluetooth	0.62
Highest Simultaneous Transmission SAR		1.56

Note:

1. The SAR limit (Head & Body: SAR_{1g} 1.6 W/kg, Extremity: SAR_{10g} 4.0 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

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2. <u>Description of Equipment Under Test</u>

EUT Type	Portable Tablet Computer	
FCC ID	O57TBX605LC	
Brand Name Lenovo		
Model Name	Lenovo TB-X605LC	
IMEI Code	Sample1:863407040059126	
IIVIEI Code	Sample2:863407040058797	
HW Version	Lenovo Tablet TB-X605LC	
SW Version	TB-X605LC_RF01_20190604	
	WCDMA Band II : 1852.4 ~ 1907.6	
	WCDMA Band V : 826.4 ~ 846.6	
	LTE Band 5 : 824.7 ~ 848.3 (1.4M), 825.5 ~ 847.5 (3M), 826.5 ~ 846.5 (5M), 829 ~ 844 (10M)	
	LTE Band 7 : 2502.5 ~ 2567.5 (5M), 2505 ~ 2565 (10M), 2507.5 ~ 2562.5 (15M), 2510 ~ 2560 (20M)	
Tx Frequency Bands (Unit: MHz)	LTE Band 26 : 814.7 ~ 848.3 (1.4M), 815.5 ~ 847.5 (3M), 816.5 ~ 846.5 (5M), 819 ~ 844 (10M), 821.5 ~ 841.5 (15M)	
	LTE Band 38 : 2572.5 ~ 2617.5 (5M), 2575 ~ 2615 (10M), 2577.5 ~ 2612.5 (15M), 2580 ~ 2610(20M)	
	LTE Band 41 : 2557.5 ~ 2652.5 (5M), 2560 ~ 2650 (10M), 2562.5 ~ 2647.5 (15M), 2565 ~ 2645 (20M)	
	WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720, 5745 ~ 5825 Bluetooth : 2402 ~ 2480	
	WCDMA: QPSK	
	LTE: QPSK, 16QAM	
Uplink Modulations	802.11b : DSSS	
	802.11a/g/n/ac : OFDM	
	Bluetooth : GFSK, π/4-DQPSK, 8-DPSK, LE	
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.5.1of this report.	
Antenna Type	WLAN / BT: PIFA Antenna	
	WWAN: Fixed Internal Antenna	
EUT Stage	Identical Prototype	

Note:

- 1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.
- 2. There were Sample 1, 2, 3, 4, 5 and 6 for this project, the difference is as below:

There were earnine 1, 2, 5, 4, 5 and 6 for this project, the difference is as below.		
SAMPLE	EUT CONFIGURATION INFORMATION	
1	LCD Panel 1+Photo Camera 1+Photo Camera 3+CPU1+EMMC1+DDR1+speaker 1+speaker 2+motor1+Main Broad 1 + BT/WLAN Module+ Battery 1	
2	LCD Panel 2+Photo Camera 2+Photo Camera 4+CPU1+EMMC2+DDR2+speaker 1+speaker 2+motor2+Main Broad 2+BT/WLAN Module+ Battery 2	
3	LCD Panel 1+Photo Camera 1+Photo Camera 3+CPU1+EMMC3+DDR3+speaker 1+speaker 2+motor1+Main Broad 1+BT/WLAN Module+ Battery 1	
4	LCD Panel 2+Photo Camera 2+Photo Camera 4+CPU1+EMMC4+DDR4+speaker 1+speaker 2+motor2+Main Broad 2+BT/WLAN Module+ Battery 2	
5	LCD Panel 1+Photo Camera 1+Photo Camera 3+CPU1+EMMC5+DDR5+speaker 1+speaker 2+motor1+Main Broad 1+BT/WLAN Module+ Battery 1	
6	LCD Panel 2+Photo Camera 2+Photo Camera 4+CPU1+EMMC6+DDR6+speaker 1+speaker 2+motor2+Main Broad 2+BT/WLAN Module+ Battery 2	

3. According to the product equivalence statement provided by the manufacturer Sample 1 and 2 are testing in this report.

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3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

SAR measurement can be related to the electrical field in the tissue by

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

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

3.2 SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion form the optical into digital electric signal of the DAE and transfers data to the PC.

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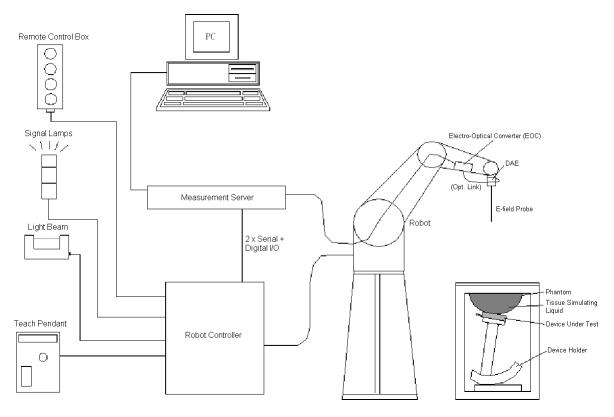


Fig-3.1 DASY System Setup

3.2.1 Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- · High precision (repeatability ±0.035 mm)
- · High reliability (industrial design)
- · Jerk-free straight movements
- · Low ELF interference (the closed metallic construction shields against motor control fields)



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3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

Model	EX3DV4	_
Construction	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μW/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)	MIII .
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	

Model	ES3DV3	
Construction	Symmetrical design with triangular core. Interleaved sensors. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	P
Frequency	10 MHz to 4 GHz Linearity: ± 0.2 dB	
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	5 μW/g to 100 mW/g Linearity: ± 0.2 dB	AST
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm	

3.2.3 Data Acquisition Electronics (DAE)

Model	DAE3. DAE4	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement	-100 to +300 mV (16 bit resolution and two range settings: 4mV,	
Range	400mV)	The ball
Input Offset Voltage	< 5μV (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

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3.2.4 Phantoms

Model	Twin SAM	
The shell corresponds to the specifications of the Anthropomorphic Mannequin (SAM) phantom defined in 1528 and IEC 62209-1. It enables the dosimetric evaluate left and right hand phone usage as well as body mounted at the flat phantom region. A cover prevents evaporation liquid. Reference markings on the phantom allow the consetup of all predefined phantom positions and measure grids by teaching three points with the robot.		
Material Vinylester, glass fiber reinforced (VE-GF)		
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Length: 1000 mm Width: 500 mm Height: adjustable feet		
Filling Volume	e approx. 25 liters	



Model	ELI	
Construction	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.	
Material Vinylester, glass fiber reinforced (VE-GF)		
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	



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3.2.5 Device Holder

Model	Mounting Device	
Construction	In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).	
Material	POM	

Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner.	
Material	POM, Acrylic glass, Foam	

3.2.6 System Validation Dipoles

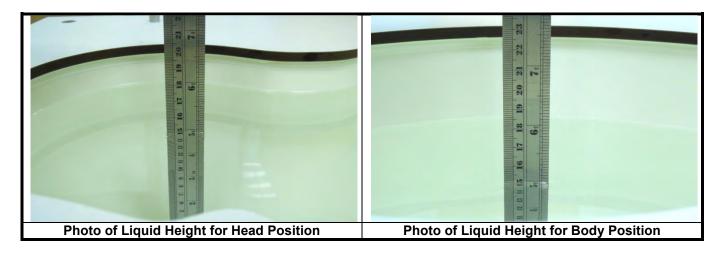
Model	D-Serial	
Construction	Symmetrical dipole with I/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.	
Frequency	750 MHz to 5800 MHz	
Return Loss	> 20 dB	
Power Capability	> 100 W (f < 1GHz), > 40 W (f > 1GHz)	

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3.2.7 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.



The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528, and KDB 865664 D01 Appendix A. For the body tissue simulating liquids, the dielectric properties are defined in KDB 865664 D01 Appendix A. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using a dielectric assessment kit and a network analyzer.

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Table-3.1 Targets of Tissue Simulating Liquid

Frequency	Target	Range of	Target	Range of
(MHz)	Permittivity	±5%	Conductivity	±5%
(1411 12)	Fermittivity		Conductivity	±3 /6
		For Head		
750	41.9	39.8 ~ 44.0	0.89	0.85 ~ 0.93
835	41.5	39.4 ~ 43.6	0.90	0.86 ~ 0.95
900	41.5	39.4 ~ 43.6	0.97	0.92 ~ 1.02
1450	40.5	38.5 ~ 42.5	1.20	1.14 ~ 1.26
1640	40.3	38.3 ~ 42.3	1.29	1.23 ~ 1.35
1750	40.1	38.1 ~ 42.1	1.37	1.30 ~ 1.44
1800	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
1900	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2000	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2300	39.5	37.5 ~ 41.5	1.67	1.59 ~ 1.75
2450	39.2	37.2 ~ 41.2	1.80	1.71 ~ 1.89
2600	39.0	37.1 ~ 41.0	1.96	1.86 ~ 2.06
3500	37.9	36.0 ~ 39.8	2.91	2.76 ~ 3.06
5200	36.0	34.2 ~ 37.8	4.66	4.43 ~ 4.89
5300	35.9	34.1 ~ 37.7	4.76	4.52 ~ 5.00
5500	35.6	33.8 ~ 37.4	4.96	4.71 ~ 5.21
5600	35.5	33.7 ~ 37.3	5.07	4.82 ~ 5.32
5800	35.3	33.5 ~ 37.1	5.27	5.01 ~ 5.53

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The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono- hexylether
H750	0.2	-	0.2	1.5	56.0	-	42.1	-
H835	0.2	-	0.2	1.5	57.0	-	41.1	-
H900	0.2	-	0.2	1.4	58.0	-	40.2	-
H1450	-	43.3	-	0.6	-	-	56.1	-
H1640	-	45.8	-	0.5	-	-	53.7	-
H1750	-	47.0	-	0.4	-	-	52.6	-
H1800	-	44.5	-	0.3	-	-	55.2	-
H1900	-	44.5	-	0.2	-	-	55.3	-
H2000	-	44.5	-	0.1	-	-	55.4	-
H2300	-	44.9	-	0.1	-	-	55.0	-
H2450	-	45.0	-	0.1	-	-	54.9	-
H2600	-	45.1	-	0.1	-	-	54.8	-
H3500	-	8.0	-	0.2	-	20.0	71.8	-
H5G	-	-	-	-	-	17.2	65.5	17.3

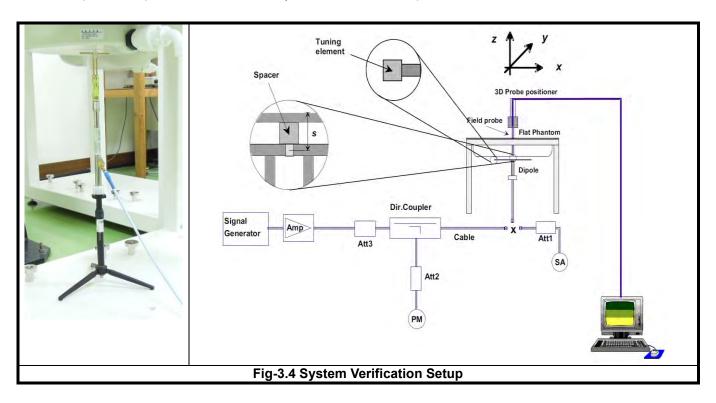
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3.3 SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.



The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The spectrum analyzer measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 3 GHz, 100 mW is used for 3.5 GHz to 6 GHz) at the dipole connector and the power meter is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

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3.4 SAR Measurement Procedure

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

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

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

3.4.1 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

Items	<= 2 GHz	2-3 GHz	3-4 GHz	4-5 GHz	5-6 GHz
Area Scan (Δx, Δy)	<= 15 mm	<= 12 mm	<= 12 mm	<= 10 mm	<= 10 mm
Zoom Scan (Δx, Δy)	<= 8 mm	<= 5 mm	<= 5 mm	<= 4 mm	<= 4 mm
Zoom Scan (Δz)	<= 5 mm	<= 5 mm	<= 4 mm	<= 3 mm	<= 2 mm
Zoom Scan Volume	>= 30 mm	>= 30 mm	>= 28 mm	>= 25 mm	>= 22 mm

Note:

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of $\Delta x / \Delta y$ (2-3GHz: <= 8 mm, 3-4GHz: <= 7 mm, 4-6GHz: <= 5 mm) may be applied.

3.4.2 Volume Scan Procedure

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

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3.4.3 Power Drift Monitoring

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

3.4.4 Spatial Peak SAR Evaluation

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

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

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

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

3.4.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

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4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

<Considerations Related to Proximity Sensor>

The device supports WWAN, WLAN, and Bluetooth capabilities. It is designed with a proximity sensor which can trigger/not trigger power reduction on Rear Face and Top Side of EUT for SAR compliance. The power levels for all wireless technologies and the power reduction please refer to section 4.6 of this report.

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 20 mm for EUT Rear Face, and 20 mm for Top Side. The separation distance of 20 mm determined by the smallest triggering distance on Top Side is used to access the tilt angle influence and the sensor does not release during ±45 degree. Therefore, the smallest separation distance for tilt angle influence is 20 mm for the Top Side. The details can be found in technical document. The conservation triggering distances based on the separation distance for the sensor trigger / not triggered as EUT with power reduction at 0 mm, and EUT without power reduction at 19 mm for EUT Rear Face, and 19 mm for Top Side is used to test SAR.

The power reduction is depends on the proximity sensor input. For a steady SAR test, the power reduction was enabled or disabled manually by engineering software during SAR testing.

<Connections between EUT and System Simulator>

For WWAN SAR testing, the EUT was linked and controlled by base station emulator (Agilent E5515C is used for GSM/WCDMA/CDMA, and Anritsu MT8820C is used for LTE). Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing.

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<Considerations Related to WCDMA for Setup and Testing>

WCDMA Handsets Body-worn SAR

SAR for body-worn 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 DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode.

Handsets with Release 5 HSDPA

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

Handsets with Release 6 HSUPA

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

Release 5 HSDPA Data Devices

The 3G SAR test reduction procedure is applied to body SAR with 12.2 kbps RMC as the primary mode. Otherwise, body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without 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 below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Sub-test	βς	β _d	β _d (SF)	β _c / β _d	β _{hs} ⁽¹⁾	CM (dB) ⁽²⁾	MPR
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: Δ_{ACK} , Δ_{NACK} and Δ_{COI} = 8 \Leftrightarrow A_{hs} = β_{hs} / β_{c} = 30 / 15 \Leftrightarrow β_{hs} = 30 / 15 * β_{c} . Note 2: CM = 1 for β_{c} / β_{d} = 12 / 15, β_{hs} / β_{c} = 24 / 15.

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 signaled gain factors for the reference TFC (TF1, TF1) to β_c = 11 / 15 and β_d = 15 / 15.

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Release 6 HSUPA Data Devices

The 3G SAR test reduction procedure is applied to body SAR with 12.2 kbps RMC as the primary mode. Otherwise, body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode. Otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing. Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in below.

Sub-test	βο	eta_{d}	β _d (SF)	β_{c} / β_{d}	β _{hs} (1)	β _{ec}	$oldsymbol{eta}_{ ext{ed}}$	β _{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11 / 15 (3)	15 / 15 (3)	64	11 / 15 (3)	22 / 15	209 / 225	1039 / 225	4	1	1.0	0.0	20	75
2	6 / 15	15 / 15	64	6 / 15	12 / 15	12 / 15	94 / 75	4	1	3.0	2.0	12	67
3	15 / 15	9 / 15	64	15 / 9	30 / 15	30 / 15	β _{ed1} : 47/15 β _{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2 / 15	15 / 15	64	2/15	4 / 15	2 / 15	56 / 75	4	1	3.0	2.0	17	71
5	15 / 15 (4)	15 / 15 (4)	64	15 / 15 (4)	30 / 15	24 / 15	134 / 15	4	1	1.0	0.0	21	81

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

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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 signaled gain factors for the reference TFC (TF1, TF1) to β_c = 10 / 15 and β_d = 15 / 15.

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

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

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

<Considerations Related to LTE for Setup and Testing>

This device contains LTE transmitter which follows 3GPP standards, is category 3, supports both QPSK and 16QAM modulations, and supported LTE band and channel bandwidth is listed in below. The output power was tested per 3GPP TS 36.521-1 maximum transmit procedures for both QPSK and 16QAM modulation. The results please refer to section 4.6 of this report.

	EUT Supported LTE Band and Channel Bandwidth											
LTE Band BW 1.4 MHz BW 3 MHz BW 5 MHz BW 10 MHz BW 15 MHz BW 20 MHz												
5	V	V	V	V								
7			V	V	V	V						
26	V	V	V	V	V							
38			V	V	V	V						
41			V	V	V	V						

The LTE maximum power reduction (MPR) in accordance with 3GPP TS 36.101 is active all times during LTE operation. The allowed MPR for the maximum output power is specified in below.

		Cha	annel Bandwidth	/ RB Configuration	ons		LTE MPR	
Modulation	BW 1.4 MHz	BW 3 MHz	BW 3 MHz BW 5 MHz		BW 15 MHz	BW 20 MHz	Setting (dB)	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1	
16QAM	<= 5	<= 4	<= 8	<= 12	<= 16	<= 18	1	
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2	

Note: MPR is according to the standard and implemented in the circuit (mandatory).

In addition, the device is compliant with additional maximum power reduction (A-MPR) requirements defined in 3GPP TS 36.101 section 6.2.4 that was disabled for all FCC compliance testing.

During LTE SAR testing, the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB was set in base station simulator. When the EUT has registered and communicated to base station simulator, the simulator set to make EUT transmitting the maximum radiated power.

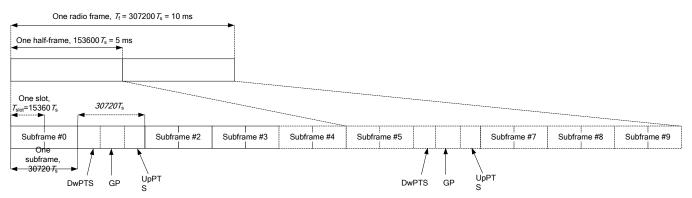
TDD-LTE Setup Configurations

According to KDB 941225 D05, SAR testing for TDD-LTE device 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 TDD-LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be referred to below.

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3GPP TS 36.211 Figure 4.2-1: Frame Structure Type 2

	No	ormal Cyclic Prefix in	Downlink	Exte	nded Cyclic Prefix in	Downlink	
Special Subframe		Upl	PTS		Upl	PTS	
Configuration	DwPTS	Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink	DwPTS	Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink	
0	6592·Ts			7680·Ts			
1	19760·Ts			2560·Ts			
2	21952·Ts	2192·Ts	2560·Ts	23040·Ts	2192·Ts	2560-15	
3	24144·Ts			25600·Ts			
4	26336·Ts			7680·Ts			
5	6592·Ts			20480·Ts	4204 To	5400 T-	
6	19760·Ts			23040·Ts	- 4384·Ts	5120·Ts	
7	21952·Ts	4384∙Ts	5120·Ts	12800·Ts			
8	24144·Ts			-	-	-	
9	13168·Ts			-	-	-	

3GPP TS 36.211 Table 4.2-1: Configuration of Special Subframe

Uplink-Downlink	Downlink-to-Uplink				Sı	ubframe	e Numb	er			
Configuration	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

3GPP TS 36.211 Table 4.2-2: Uplink-Downlink Configurations

The variety of different TD-LTE uplink-downlink configurations allows a network operator to allocate the network's capacity between uplink and downlink traffic to meet the needs of the network. The uplink duty cycle of these seven configurations can readily be computed and shown in below.

UL-DL Configuration	0	1	2	3	4	5	6
Highest Duty-Cycle	63.33%	43.33%	23.33%	31.67%	21.67%	11.67%	53.33%

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Considering the highest transmission duty cycle, TDD-LTE was tested using Uplink-Downlink Configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 7 using extended cyclic prefix uplink. Therefore, SAR testing for TDD-LTE was performed at the maximum output power with highest transmission duty cycle of 63.33%.

<Considerations Related to WLAN for Setup and Testing>

In general, various vendor specific external test software and chipset based internal test modes are typically used for SAR measurement. These chipset based test mode utilities are generally hardware and manufacturer dependent, and often include substantial flexibility to reconfigure or reprogram a device. 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. The test frequencies established using test mode must correspond to the actual channel frequencies. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. In addition, a periodic transmission duty factor is required for current generation SAR systems to measure SAR correctly. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

According to KDB 248227 D01, this device has installed WLAN engineering testing software which can provide continuous transmitting RF signal. During WLAN SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

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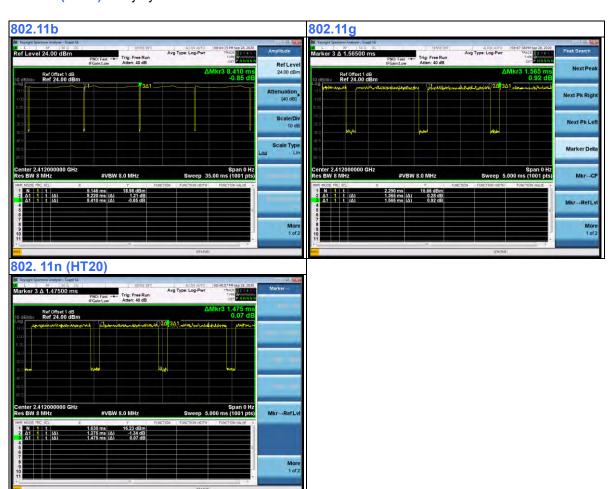


<Duty Cycle of Test Signal>

Wi-Fi 2.4GHz

802.11b: Duty cycle = 8.220/8.410 = 0.977 **802.11g:** Duty cycle = 1.365/1.565 = 0.872

802.11n (HT20): Duty cycle = 1.275/1.475 = 0.864



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Wi-Fi 5GHz

802.11a: Duty cycle = 1.362/1.560 = 0.873.

802.11n (20MHz): Duty cycle = 0.98/1.172 = 0.836 **802.11n (40MHz):** Duty cycle =489.0/688.0 = 0.711. **802.11ac (20MHz):** Duty cycle = 0.98/1.172 = 0.836. **802.11ac (40MHz):** Duty cycle =493.0/692.0 = 0.712. **802.11ac (80MHz):** Duty cycle =246.1/448.2 = 0.549



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Initial Test Configuration

An initial test configuration is determined for OFDM transmission modes in 2.4 GHz and 5 GHz bands 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. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.

Subsequent Test Configuration

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. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. When the highest reported SAR for the initial test configuration 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.

SAR Test Configuration and Channel Selection

When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is using largest channel bandwidth, lowest order modulation, lowest data rate, and lowest order 802.11 mode (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.

- 1) The channel closest to mid-band frequency is selected for SAR measurement.
- 2) 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.

Test Reduction for U-NII-1 (5.2 GHz) and U-NII-2A (5.3 GHz) Bands

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.

- 1) 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 \leq 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition).
- 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.

<Considerations Related to Bluetooth for Setup and Testing>

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

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4.2 EUT Testing Position

4.2.1 Body Exposure Conditions

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

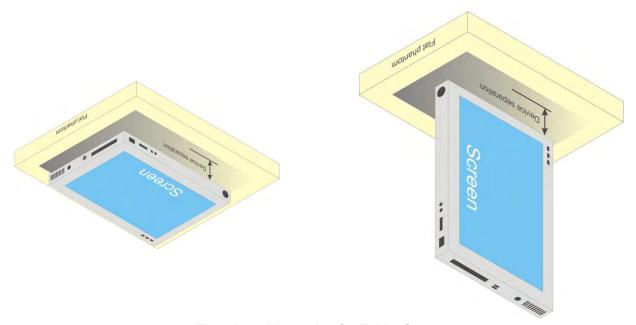


Fig-4.1 Illustration for Tablet Setup

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4.2.2 SAR Test Exclusion Evaluations

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. For the test separation distance <= 50 mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \le 3.0 \text{ for SAR-1g, } \le 7.5 \text{ for SAR-10g}$$

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

2. For the test separation distance > 50 mm, and the frequency at 100 MHz to 1500 MHz

$$\left[\text{(Threshold at 50 mm in Step 1)} + \text{(Test Separation Distance} - 50 mm) \times \left(\frac{f_{\text{(MHz)}}}{150} \right) \right]_{\text{(mW)}}$$

3. For the test separation distance > 50 mm, and the frequency at > 1500 MHz to 6 GHz $[(Threshold at 50 mm in Step 1) + (Test Separation Distance - 50 mm) \times 10]_{(mW)}$

	Wireless Interface	WCDMA Band V	WCDMA Band II	LTE Band 5	LTE Band 26	LTE Band 7	LTE Band 38	LTE Band 41	ВТ	2.4GHz WLAN	5GHz WLAN
Exposure Position	Calculated Frequency	846MHz	1907MHz	848MHz	848MHz	2567MHz	2617MHz	2687MHz	2480MHz	2462MHz	5825MHz
	Maximum power (dBm)	24.50	24.5	24.5	24.5	23.5	24.5	24.5	11	17	15
	Maximum rated power(mW)	282.0	282.0	282.0	282.0	224.0	282.0	282.0	13.0	50.0	32.0
	Separation distance(mm)				0					0	
Rear Face	exclusion threshold	51.9	77.9	51.9	51.9	71.8	91.2	92.5	4.1	15.7	15.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Separation distance(mm)				0					0	
Top Side	exclusion threshold	51.9	77.9	51.9	51.9	71.8	91.2	92.5	4.1	15.7	15.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Separation distance(mm)				52					155	
Right Side	exclusion threshold	174.0	129.0	174.0	174.0	114.0	113.0	112.0	1145.0	1146.0	1112.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
D. 11	Separation distance(mm)				154					154	
Bottom Side	exclusion threshold	750.0	1149.0	751.0	751.0	1134.0	1133.0	1132.0	1135.0	1136.0	1102.0
	Testing required?	No	No	No	No	No	No	No	No	No	No
	Separation distance(mm)				140					54	
Left Side	exclusion threshold	671.0	1009.0	672.0	672.0	994.0	993.0	992.0	135.0	136.0	102.0
	Testing required?	No	No	No	No	No	No	No	No	No	No

Note:

- 1. When separation distance <= 50 mm and the calculated result shown in above table is <= 3.0 for SAR-1g exposure condition, or <= 7.5 for SAR-10g exposure condition, the SAR testing exclusion is applied.
- 2. When separation distance > 50 mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.

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4.2.3 Simultaneous Transmission Possibilities

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Body Exposure Condition
1	WCDMA II (Data) + WLAN (Data)	Yes
2	WCDMA V (Data) + WLAN (Data)	Yes
3	LTE 5 (Data) + WLAN (Data)	Yes
4	LTE 7 (Data) + WLAN (Data)	Yes
5	LTE 26 (Data) + WLAN (Data)	Yes
6	LTE 38 (Data) + WLAN (Data)	Yes
7	LTE 41 (Data) + WLAN (Data)	Yes
8	WCDMA II (Data) + BT (Data)	Yes
9	WCDMA V (Data) + BT (Data)	Yes
10	LTE 5 (Data) + BT (Data)	Yes
11	LTE 7 (Data) + BT (Data)	Yes
12	LTE 26 (Data) + BT (Data)	Yes
13	LTE 38 (Data) + BT (Data)	Yes
14	LTE 41 (Data) + BT (Data)	Yes

Note:

- 1. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
- 2. The WLAN and Bluetooth cannot transmit simultaneously, so there is no co-location test requirement for WLAN and Bluetooth.
- 3. This device does not support voice transmission capability.

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4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (℃)	Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Target Conductivity (σ)	Target Permittivity (ε _r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Oct. 03, 2020	Head	835	22.7	0.906	41.863	0.90	41.50	0.67	0.87
Oct. 04, 2020	Head	1900	22.6	1.443	40.221	1.40	40.00	3.07	0.55
Oct. 06, 2020	Head	2450	22.6	1.845	39.397	1.80	39.20	2.50	0.50
Oct. 07, 2020	Head	2600	22.8	2.019	38.932	1.96	39.00	3.01	-0.17
Oct. 09, 2020	Head	5250	22.5	4.748	36.885	4.71	35.90	0.81	2.74
Oct. 10, 2020	Head	5600	22.3	5.189	36.135	5.07	35.50	2.35	1.79
Oct. 11, 2020	Head	5800	22.6	5.422	35.687	5.27	35.30	2.88	1.10

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within $\pm 5\%$ of the target values. Liquid temperature during the SAR testing must be within ± 2 °C.

4.4 System Verification

The measuring result for system verification is tabulated as below.

Test Date	Mode	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Oct. 03, 2020	Head	835	9.69	2.46	9.84	1.55	4d139	3898	1341
Oct. 04, 2020	Head	1900	39.40	10.20	40.80	3.55	5d159	3898	1341
Oct. 06, 2020	Head	2450	53.10	14.00	56.00	5.46	893	3898	1341
Oct. 07, 2020	Head	2600	57.30	15.20	60.80	6.11	1110	3898	1341
Oct. 09, 2020	Head	5250	79.00	8.09	80.90	2.41	1133	3898	1341
Oct. 10, 2020	Head	5600	84.30	8.17	81.70	-3.08	1133	3898	1341
Oct. 11, 2020	Head	5800	81.10	8.72	87.20	7.52	1133	3898	1341

Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

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4.5 Maximum Output Power

4.5.1 Maximum Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

Mode	WCDMA Band II (without Power Reduction)	WCDMA Band II (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24.5	12.5	12
HSDPA	23.5	11.5	12
HSUPA	23.5	11.5	12

Mode	WCDMA Band V (without Power Reduction)	WCDMA Band V (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24.5	17.5	7
HSDPA	23.5	16.5	7
HSUPA	23.5	16.5	7

Mode	LTE 5 (without Power Reduction)	LTE 5 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	24.5 / 23.5	16 / 16	8.5 / 7.5

Mode	LTE 7 (without Power Reduction)	LTE 7 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	23.5 / 22.5	12.5 / 12.5	11 / 10

Mode	LTE 26 (without Power Reduction)	LTE 26 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	24.5 / 23.5	16 / 16	8.5 / 7.5

Mode	LTE 38 (without Power Reduction)	LTE 38 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	24.5 / 23.5	12.5 / 12.5	12 / 11

Mode	LTE 41 (without Power Reduction)	LTE 41 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	24.5 / 23.5	12.5 / 12.5	12 / 11

Mode	2.4G WLAN (without Power Reduction)	2.4G WLAN (with Power Reduction)	Power Reduction (dB)
802.11b	17	14.5	2.5
802.11g	15	12.5	2.5
802.11n HT20	15	12.5	2.5

Mode	5.2G WLAN (without Power Reduction)	5.2G WLAN (with Power Reduction)	Power Reduction (dB)
802.11a	14.5	N/A	N/A
802.11n HT20	14.5	N/A	N/A
802.11n HT40	13	N/A	N/A
802.11ac VHT20	14.5	N/A	N/A
802.11ac VHT40	12.5	N/A	N/A
802.11ac VHT80	13	N/A	N/A

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Mode	5.3G WLAN (without Power Reduction)	5.3G WLAN (with Power Reduction)	Power Reduction (dB)
802.11a	14.5	N/A	N/A
802.11n HT20	14.5	N/A	N/A
802.11n HT40	12.5	N/A	N/A
802.11ac VHT20	14.5	N/A	N/A
802.11ac VHT40	12.5	N/A	N/A
802.11ac VHT80	13.5	N/A	N/A

Mode	5.6G WLAN (without Power Reduction)	5.6G WLAN (with Power Reduction)	Power Reduction (dB)
802.11a	15	12	3
802.11n HT20	15	12	3
802.11n HT40	14	11	3
802.11ac VHT20	15	12	3
802.11ac VHT40	14	11	3
802.11ac VHT80	14.5	11.5	3

Mode	5.8G WLAN (without Power Reduction)	5.8G WLAN (with Power Reduction)	Power Reduction (dB)
802.11a	15	12.5	2.5
802.11n HT20	15	12.5	2.5
802.11n HT40	13	10.5	2.5
802.11ac VHT20	15	12.5	2.5
802.11ac VHT40	13	10.5	2.5
802.11ac VHT80	13	10.5	2.5

Mode	2.4G Bluetooth
GFSK	11
π/4-DQPSK	9
8-DPSK	9
LE	0.5

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4.5.2 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) is shown as below.

<WWAN>

Band	١	WCDMA Band	II	V	VCDMA Band	V	3GPP
Channel	9262	9400	9538	4132	4182	4233	MPR
Frequency (MHz)	1852.4	1880.0	1907.6	826.4	836.4	846.6	(dB)
	EUT v	without Power	Reduction (P	-Sensor NOT	Triggered)		
RMC 12.2K	22.91	23.04	22.96	22.90	22.82	22.95	-
HSDPA Subtest-1	21.91	22.06	21.96	21.87	21.87	22.00	0
HSDPA Subtest-2	21.91	22.05	21.89	21.85	21.79	21.92	0
HSDPA Subtest-3	21.40	21.58	21.47	21.40	21.40	21.53	0.5
HSDPA Subtest-4	21.43	21.56	21.46	21.43	21.38	21.51	0.5
HSUPA Subtest-1	21.89	22.08	21.94	21.92	21.86	21.99	0
HSUPA Subtest-2	19.94	20.09	20.00	19.91	19.89	20.02	2
HSUPA Subtest-3	21.00	21.14	20.99	20.91	20.84	20.97	1
HSUPA Subtest-4	19.94	20.12	20.01	19.90	19.89	20.02	2
HSUPA Subtest-5	21.98	22.10	22.00	21.98	21.93	22.06	0
	E	UT with Powe	r Reduction (I	P-Sensor Trigg	gered)		
RMC 12.2K	12.09	12.36	11.94	16.90	16.93	17.28	-
HSDPA Subtest-1	11.06	11.35	10.93	15.91	15.92	16.29	0
HSDPA Subtest-2	11.05	11.33	10.91	15.88	15.90	16.26	0
HSDPA Subtest-3	10.54	10.86	10.44	15.40	15.38	15.78	0.5
HSDPA Subtest-4	10.53	10.85	10.43	15.37	15.35	15.75	0.5
HSUPA Subtest-1	11.13	11.41	10.99	15.94	15.96	16.32	0
HSUPA Subtest-2	9.20	9.52	9.10	13.98	13.96	14.36	2
HSUPA Subtest-3	10.09	10.38	9.96	14.91	14.92	15.29	1
HSUPA Subtest-4	9.23	9.55	9.13	13.97	13.95	14.35	2
HSUPA Subtest-5	11.21	11.50	11.08	16.02	16.03	16.40	0

				QPSK				16QAM				
Band / BW	RB Size	RB Offset	Low CH 20407 824.7 MHz	Mid CH 20525 836.5 MHz	High CH 20643 848.3 MHz	3GPP MPR (dB)	Low CH 20407 824.7 MHz	Mid CH 20525 836.5 MHz	High CH 20643 848.3 MHz	3GPP MPR (dB)		
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)				
1 0 22.58 22.80 22.53 0 21.61 21.67 21.61												
	1	2	22.75	22.90	22.68	0	21.59	21.61	21.61	1		
	1	5	22.65	22.78	22.54	0	21.55	21.60	21.61	1		
5 / 1.4M	3	0	22.63	22.79	22.59	0	21.82	21.99	21.73	1		
	3	1	22.63	22.80	22.52	0	21.57	21.82	21.52	1		
	3	3	22.56	22.71	22.57	0	21.66	21.83	21.61	1		
	6	0	21.65	21.78	21.66	1	20.67	20.69	20.60	2		
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)					
	1	0	15.43	15.63	15.55	0	15.15	15.29	15.24	0		
	1	2	15.57	15.70	15.67	0	15.21	15.31	15.30	0		
	1	5	15.52	15.63	15.58	0	14.98	15.11	15.11	0		
5 / 1.4M	3	0	15.34	15.48	15.47	0	15.44	15.59	15.52	0		
	3	1	15.38	15.53	15.40	0	15.30	15.53	15.42	0		
	3	3	15.31	15.44	15.39	0	15.36	15.51	15.48	0		
	6	0	15.37	15.48	15.45	0	15.38	15.58	15.48	0		

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				QPSK				16QAM			
Band / BW	RB Size	RB Offset	Low CH 20415 825.5 MHz	Mid CH 20525 836.5 MHz	High CH 20635 847.5 MHz	3GPP MPR (dB)	Low CH 20415 825.5 MHz	Mid CH 20525 836.5 MHz	High CH 20635 847.5 MHz	3GPP MPR (dB)	
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)			
1 0 22.60 22.82 22.52 0 21.58 21.73 21.64											
	1	7	22.71	22.91	22.68	0	21.56	21.64	21.59	1	
	1	14	22.61	22.78	22.54	0	21.58	21.60	21.61	1	
5 / 3M	8	0	21.62	21.82	21.59	1	20.78	21.00	20.73	2	
	8	3	21.56	21.80	21.54	1	20.62	20.77	20.55	2	
	8	7	21.53	21.78	21.61	1	20.68	20.81	20.57	2	
	15	0	21.62	21.79	21.60	1	20.67	20.63	20.63	2	
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)				
	1	0	15.45	15.65	15.54	0	15.12	15.35	15.27	0	
	1	7	15.53	15.71	15.67	0	15.18	15.34	15.28	0	
	1	14	15.48	15.63	15.58	0	15.01	15.11	15.11	0	
5 / 3M	8	0	15.33	15.51	15.47	0	15.40	15.60	15.52	0	
	8	3	15.31	15.53	15.42	0	15.35	15.48	15.45	0	
	8	7	15.28	15.51	15.43	0	15.38	15.49	15.44	0	
	15	0	15.34	15.49	15.39	0	15.38	15.52	15.51	0	

				QPSK				16QAM			
Band / BW	RB Size	RB Offset	Low CH 20425 826.5 MHz	Mid CH 20525 836.5 MHz	High CH 20625 846.5 MHz	3GPP MPR (dB)	Low CH 20425 826.5 MHz	Mid CH 20525 836.5 MHz	High CH 20625 846.5 MHz	3GPP MPR (dB)	
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	1)			
1 0 22.61 22.77 22.53 0 21.59 21.69 21.64											
	1	12	22.76	22.88	22.68	0	21.53	21.67	21.58	1	
	1	24	22.62	22.77	22.58	0	21.58	21.60	21.60	1	
5 / 5M	12	0	21.65	21.82	21.56	1	20.78	20.98	20.70	2	
	12	6	21.56	21.81	21.55	1	20.59	20.81	20.51	2	
	12	13	21.57	21.74	21.62	1	20.63	20.83	20.60	2	
	25	0	21.60	21.82	21.63	1	20.67	20.64	20.60	2	
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)				
	1	0	15.46	15.60	15.55	0	15.13	15.31	15.27	0	
	1	12	15.58	15.68	15.67	0	15.15	15.37	15.27	0	
	1	24	15.49	15.62	15.62	0	15.01	15.11	15.10	0	
5 / 5M	12	0	15.36	15.51	15.44	0	15.40	15.58	15.49	0	
	12	6	15.31	15.54	15.43	0	15.32	15.52	15.41	0	
	12	13	15.32	15.47	15.44	0	15.33	15.51	15.47	0	
	25	0	15.32	15.52	15.42	0	15.38	15.53	15.48	0	

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				QPSK				16QAM				
Band / BW	RB Size	RB Offset	Low CH 20450 829.0 MHz	Mid CH 20525 836.5 MHz	High CH 20600 844.0 MHz	3GPP MPR (dB)	Low CH 20450 829.0 MHz	Mid CH 20525 836.5 MHz	High CH 20600 844.0 MHz	3GPP MPR (dB)		
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)				
1 0 22.66 22.84 22.58 0 21.66 21.74 21.66												
	1	24	22.78	22.96	22.70	0	21.61	21.69	21.63	1		
	1	49	22.67	22.85	22.59	0	21.60	21.68	21.62	1		
5 / 10M	25	0	21.69	21.87	21.61	1	20.86	21.04	20.78	2		
	25	12	21.64	21.82	21.60	1	20.65	20.83	20.57	2		
	25	25	21.61	21.79	21.63	1	20.70	20.88	20.62	2		
	50	0	21.66	21.84	21.68	1	20.73	20.71	20.65	2		
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)					
	1	0	15.51	15.67	15.60	0	15.20	15.36	15.29	0		
	1	24	15.60	15.76	15.69	0	15.23	15.39	15.32	0		
	1	49	15.54	15.70	15.63	0	15.03	15.19	15.12	0		
5 / 10M	25	0	15.40	15.56	15.49	0	15.48	15.64	15.57	0		
	25	12	15.39	15.55	15.48	0	15.38	15.54	15.47	0		
	25	25	15.36	15.52	15.45	0	15.40	15.56	15.49	0		
	50	0	15.38	15.54	15.47	0	15.44	15.60	15.53	0		

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 20775 2502.5	Mid CH 21100 2535.0	High CH 21425 2567.5	3GPP MPR (dB)	Low CH 20775 2502.5	Mid CH 21100 2535.0	High CH 21425 2567.5	3GPP MPR (dB)
			MHz	MHz	MHz		MHz	MHz	MHz	
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	i)		
1 0 22.90 22.67 22.73 0 21.65 21.46 21.53										
	1	12	23.10	22.83	22.93	0	22.71	22.56	22.57	1
	1	24	22.70	22.46	22.57	0	21.22	20.95	21.05	1
7 / 5M	12	0	22.09	21.87	21.91	1	20.92	20.73	20.75	2
	12	6	22.29	22.15	22.15	1	21.08	20.91	20.91	2
	12	13	21.87	21.65	21.73	1	20.91	20.72	20.79	2
	25	0	21.82	21.65	21.66	1	20.84	20.62	20.68	2
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)			
	1	0	10.63	10.48	10.54	0	10.60	10.49	10.56	0
	1	12	11.96	11.77	11.87	0	11.55	11.48	11.49	0
	1	24	11.54	11.38	11.49	0	11.69	11.50	11.60	0
7 / 5M	12	0	11.81	11.67	11.71	0	11.77	11.66	11.68	0
	12	6	11.84	11.78	11.78	0	11.83	11.74	11.74	0
	12	13	11.82	11.68	11.76	0	11.80	11.69	11.76	0
	25	0	11.85	11.76	11.77	0	11.74	11.60	11.66	0

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				QPSK				16QAM			
Band / BW	RB Size	RB Offset	Low CH 20800 2505.0 MHz	Mid CH 21100 2535.0 MHz	High CH 21400 2565.0 MHz	3GPP MPR (dB)	Low CH 20800 2505.0 MHz	Mid CH 21100 2535.0 MHz	High CH 21400 2565.0 MHz	3GPP MPR (dB)	
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)			
1 0 22.87 22.70 22.73 0 21.65 21.43 21.49											
	1	24	23.10	22.83	22.94	0	22.76	22.52	22.60	1	
	1	49	22.67	22.50	22.53	0	21.22	20.96	21.02	1	
7 / 10M	25	0	22.10	21.86	21.94	1	20.94	20.71	20.81	2	
	25	12	22.35	22.09	22.15	1	21.12	20.85	20.96	2	
	25	25	21.85	21.62	21.72	1	20.90	20.73	20.76	2	
	50	0	21.87	21.65	21.63	1	20.88	20.61	20.72	2	
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)				
	1	0	10.60	10.51	10.54	0	10.60	10.46	10.52	0	
	1	24	11.96	11.77	11.88	0	11.60	11.44	11.52	0	
	1	49	11.51	11.42	11.45	0	11.69	11.51	11.57	0	
7 / 10M	25	0	11.82	11.66	11.74	0	11.79	11.64	11.74	0	
	25	12	11.90	11.72	11.78	0	11.87	11.68	11.79	0	
	25	25	11.80	11.65	11.75	0	11.79	11.70	11.73	0	
	50	0	11.90	11.76	11.74	0	11.78	11.59	11.70	0	

				QPSK				16QAM			
Band / BW	RB Size	RB Offset	Low CH 20825 2507.5 MHz	Mid CH 21100 2535.0 MHz	High CH 21375 2562.5 MHz	3GPP MPR (dB)	Low CH 20825 2507.5 MHz	Mid CH 21100 2535.0 MHz	High CH 21375 2562.5 MHz	3GPP MPR (dB)	
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)			
1 0 22.94 22.70 22.70 0 21.69 21.50 21.49											
	1	37	23.08	22.88	22.89	0	22.75	22.53	22.60	1	
	1	74	22.73	22.53	22.54	0	21.18	21.01	21.04	1	
7 / 15M	36	0	22.07	21.87	21.95	1	20.98	20.71	20.82	2	
	36	19	22.36	22.14	22.15	1	21.06	20.89	20.92	2	
	36	39	21.83	21.63	21.72	1	20.95	20.71	20.79	2	
	75	0	21.87	21.63	21.68	1	20.89	20.64	20.65	2	
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)				
	1	0	10.67	10.51	10.51	0	10.64	10.53	10.52	0	
	1	37	11.94	11.82	11.83	0	11.59	11.45	11.52	0	
	1	74	11.57	11.45	11.46	0	11.65	11.56	11.59	0	
7 / 15M	36	0	11.79	11.67	11.75	0	11.83	11.64	11.75	0	
	36	19	11.91	11.77	11.78	0	11.81	11.72	11.75	0	
	36	39	11.78	11.66	11.75	0	11.84	11.68	11.76	0	
	75	0	11.90	11.74	11.79	0	11.79	11.62	11.63	0	

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				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 20850 2510.0 MHz	Mid CH 21100 2535.0 MHz	High CH 21350 2560.0 MHz	3GPP MPR (dB)	Low CH 20850 2510.0 MHz	Mid CH 21100 2535.0 MHz	High CH 21350 2560.0 MHz	3GPP MPR (dB)
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)		
	1	0	22.95	22.74	22.78	0	21.72	21.51	21.55	1
	1	50	23.12	22.91	22.95	0	22.79	22.58	22.62	1
	1	99	22.75	22.54	22.58	0	21.24	21.03	21.07	1
7 / 20M	50	0	22.13	21.92	21.96	1	21.00	20.79	20.83	2
	50	25	22.37	22.16	22.20	1	21.14	20.93	20.97	2
	50	50	21.91	21.70	21.74	1	20.98	20.77	20.81	2
	100	0	21.88	21.67	21.71	1	20.90	20.69	20.73	2
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)			
	1	0	10.68	10.55	10.59	0	10.67	10.54	10.58	0
	1	50	11.98	11.85	11.89	0	11.63	11.50	11.54	0
	1	99	11.59	11.46	11.50	0	11.71	11.58	11.62	0
7 / 20M	50	0	11.85	11.72	11.76	0	11.85	11.72	11.76	0
	50	25	11.92	11.79	11.83	0	11.89	11.76	11.80	0
	50	50	11.86	11.73	11.77	0	11.87	11.74	11.78	0
	100	0	11.91	11.78	11.82	0	11.80	11.67	11.71	0

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 26697	Mid CH 26865	High CH 27033	3GPP MPR	Low CH 26697	Mid CH 26865	High CH 27033	3GPP MPR
			814.7 MHz	831.0 MHz	848.3 MHz	(dB)	814.7 MHz	831.0 MHz	848.3 MHz	(dB)
		Е	UT without	Power Re	duction (P-	Sensor NO	T Triggered	1)		
	1	0	22.55	22.61	22.68	0	21.63	21.63	21.73	1
	1	2	22.65	22.74	22.86	0	21.63	21.59	21.63	1
00./	1	5	22.56	22.53	22.63	0	21.64	21.53	21.66	1
26 / 1.4M	3	0	22.72	22.82	22.96	0	21.69	21.80	21.88	1
1.4101	3	1	22.68	22.79	22.81	0	21.57	21.76	21.80	1
	3	3	22.69	22.78	22.88	0	21.59	21.70	21.82	1
	6	0	21.72	21.79	21.91	1	20.67	20.83	20.88	2
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)			
	1	0	15.34	15.29	15.40	0	15.11	15.00	15.14	0
	1	2	15.44	15.32	15.48	0	15.23	15.08	15.26	0
26 /	1	5	15.25	15.11	15.25	0	14.92	14.80	14.99	0
26 / 1.4M	3	0	15.26	15.15	15.33	0	15.25	15.15	15.27	0
1.4101	3	1	15.25	15.15	15.21	0	15.29	15.27	15.35	0
	3	3	15.23	15.11	15.25	0	15.24	15.14	15.30	0
	6	0	15.24	15.10	15.26	0	15.25	15.20	15.29	0

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				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 26705	Mid CH 26865	High CH 27025	3GPP MPR	Low CH 26705	Mid CH 26865	High CH 27025	3GPP MPR
DVV	Size	Oliset	815.5 MHz	831.0 MHz	847.5 MHz	(dB)	815.5 MHz	831.0 MHz	847.5 MHz	(dB)
		E	UT without	Power Re		Sensor NO	T Triggered	1)		
	1	0	22.57	22.63	22.67	0	21.60	21.69	21.76	1
	1	7	22.61	22.75	22.86	0	21.60	21.62	21.61	1
	1	14	22.52	22.53	22.63	0	21.67	21.53	21.66	1
26 / 3M	8	0	21.71	21.85	21.96	1	20.65	20.81	20.88	2
	8	3	21.61	21.79	21.83	1	20.62	20.71	20.83	2
	8	7	21.66	21.85	21.92	1	20.61	20.68	20.78	2
	15	0	21.69	21.80	21.85	1	20.67	20.77	20.91	2
			EUT wit	h Power Re	duction (P	-Sensor Tri	ggered)			
	1	0	15.36	15.31	15.39	0	15.08	15.06	15.17	0
	1	7	15.40	15.33	15.48	0	15.20	15.11	15.24	0
	1	14	15.21	15.11	15.25	0	14.95	14.80	14.99	0
26 / 3M	8	0	15.25	15.18	15.33	0	15.21	15.16	15.27	0
	8	3	15.18	15.15	15.23	0	15.34	15.22	15.38	0
	8	7	15.20	15.18	15.29	0	15.26	15.12	15.26	0
	15	0	15.21	15.11	15.20	0	15.25	15.14	15.32	0
			L avv CII	QPSK	High CH	2000	L avv. CII	16QAM	High CH	3GPP
Band /	RB	RB	Low CH 26715	Mid CH 26865	27015	3GPP MPR	Low CH 26715	Mid CH 26865	27015	MPR
BW	Size	Offset	816.5	831.0	846.5	(dB)	816.5	831.0	846.5	(dB)
			MHz	MHz	MHz		MHz	MHz	MHz	` '
		E	UT without	t Power Re	duction (P-	Sensor NO	T Triggered	l)		
	1	0	22.58	22.58	22.68	0	21.61	21.65	21.76	1
	1	12	22.66	22.72	22.86	0	21.57	21.65	21.60	1
	1	24	22.53	22.52	22.67	0	21.67	21.53	21.65	1
26 / 5M	12	0	21.74	21.85	21.93	1	20.65	20.79	20.85	2
			21.77	_::00	21.00	•				
	12	6	21.61	21.80	21.84	1	20.59	20.75	20.79	2
	12 12					-		20.75 20.70		2
		6	21.61 21.70 21.67	21.80 21.81 21.83	21.84 21.93 21.88	1 1	20.59 20.56 20.67		20.79	
	12	6 13	21.61 21.70 21.67	21.80 21.81 21.83	21.84 21.93	1 1	20.59 20.56 20.67	20.70	20.79 20.81	2
	12	6 13	21.61 21.70 21.67	21.80 21.81 21.83	21.84 21.93 21.88	1 1	20.59 20.56 20.67	20.70	20.79 20.81	2
	12 25 1 1	6 13 0	21.61 21.70 21.67 EUT wit	21.80 21.81 21.83 h Power Re	21.84 21.93 21.88 eduction (P	1 1 1 -Sensor Tri	20.59 20.56 20.67 ggered)	20.70 20.78	20.79 20.81 20.88	2 2
	12 25 1 1	6 13 0 0 12 24	21.61 21.70 21.67 EUT wit 15.37	21.80 21.81 21.83 h Power Re	21.84 21.93 21.88 eduction (P	1 1 1 -Sensor Tri	20.59 20.56 20.67 ggered) 15.09	20.70 20.78 15.02	20.79 20.81 20.88 15.17	2 2 0 0 0
26 / 5M	12 25 1 1 1 1 12	6 13 0 0 12 24 0	21.61 21.70 21.67 EUT wit 15.37 15.45 15.22 15.28	21.80 21.81 21.83 h Power Re 15.26 15.30 15.10 15.18	21.84 21.93 21.88 eduction (P 15.40 15.48 15.29 15.30	1 1 1 -Sensor Tri 0 0 0	20.59 20.56 20.67 ggered) 15.09 15.17 14.95 15.21	20.70 20.78 15.02 15.14 14.80 15.14	20.79 20.81 20.88 15.17 15.23 14.98 15.24	2 2 0 0 0 0
26 / 5M	12 25 1 1 1 1 12	6 13 0 0 12 24 0 6	21.61 21.70 21.67 EUT wit 15.37 15.45 15.22 15.28 15.18	21.80 21.81 21.83 h Power Ro 15.26 15.30 15.10 15.18 15.16	21.84 21.93 21.88 eduction (P 15.40 15.48 15.29 15.30 15.24	1 1 1 -Sensor Tri 0 0 0	20.59 20.56 20.67 ggered) 15.09 15.17 14.95 15.21 15.31	20.70 20.78 15.02 15.14 14.80 15.14 15.26	20.79 20.81 20.88 15.17 15.23 14.98 15.24 15.34	2 2 0 0 0 0 0
26 / 5M	12 25 1 1 1 1 12	6 13 0 0 12 24 0	21.61 21.70 21.67 EUT wit 15.37 15.45 15.22 15.28	21.80 21.81 21.83 h Power Re 15.26 15.30 15.10 15.18	21.84 21.93 21.88 eduction (P 15.40 15.48 15.29 15.30	1 1 1 -Sensor Tri 0 0 0	20.59 20.56 20.67 ggered) 15.09 15.17 14.95 15.21	20.70 20.78 15.02 15.14 14.80 15.14	20.79 20.81 20.88 15.17 15.23 14.98 15.24	2 2 0 0 0 0

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				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 26740 819.0 MHz	Mid CH 26865 831.0 MHz	High CH 26990 844.0 MHz	3GPP MPR (dB)	Low CH 26740 819.0 MHz	Mid CH 26865 831.0 MHz	High CH 26990 844.0 MHz	3GPP MPR (dB)
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)		
	1	0	22.55	22.61	22.68	0	21.61	21.62	21.72	1
	1	24	22.66	22.72	22.87	0	21.62	21.61	21.63	1
	1	49	22.50	22.56	22.63	0	21.67	21.54	21.62	1
26 / 10M	25	0	21.75	21.84	21.96	1	20.67	20.77	20.91	2
	25	12	21.67	21.74	21.84	1	20.63	20.69	20.84	2
	25	25	21.68	21.78	21.92	1	20.55	20.71	20.78	2
	50	0	21.72	21.83	21.85	1	20.71	20.77	20.92	2
			EUT wit	h Power Re	duction (P	-Sensor Tri	ggered)			
	1	0	15.34	15.29	15.40	0	15.09	14.99	15.13	0
	1	24	15.45	15.30	15.49	0	15.22	15.10	15.26	0
	1	49	15.19	15.14	15.25	0	14.95	14.81	14.95	0
26 / 10M	25	0	15.29	15.17	15.33	0	15.23	15.12	15.30	0
	25	12	15.24	15.10	15.24	0	15.35	15.20	15.39	0
	25	25	15.22	15.11	15.29	0	15.20	15.15	15.26	0
	50	0	15.24	15.14	15.20	0	15.29	15.14	15.33	0

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 26765 821.5 MHz	Mid CH 26865 831.0 MHz	High CH 26965 841.5 MHz	3GPP MPR (dB)	Low CH 26765 821.5 MHz	Mid CH 26865 831.0 MHz	High CH 26965 841.5 MHz	3GPP MPR (dB)
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)		
	1	0	22.63	22.65	22.73	0	21.68	21.70	21.78	1
	1	37	22.68	22.80	22.88	0	21.65	21.67	21.65	1
	1	74	22.58	22.60	22.68	0	21.69	21.61	21.67	1
26 / 15M	36	0	21.78	21.90	21.98	1	20.73	20.85	20.93	2
	36	19	21.69	21.81	21.89	1	20.65	20.77	20.85	2
	36	39	21.74	21.86	21.94	1	20.63	20.75	20.83	2
	75	0	21.73	21.85	21.93	1	20.73	20.85	20.93	2
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)			
	1	0	15.42	15.33	15.45	0	15.16	15.07	15.19	0
	1	37	15.47	15.38	15.50	0	15.25	15.16	15.28	0
	1	74	15.27	15.18	15.30	0	14.97	14.88	15.00	0
26 / 15M	36	0	15.32	15.23	15.35	0	15.29	15.20	15.32	0
	36	19	15.26	15.17	15.29	0	15.37	15.28	15.40	0
	36	39	15.28	15.19	15.31	0	15.28	15.19	15.31	0
	75	0	15.25	15.16	15.28	0	15.31	15.22	15.34	0

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				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 37775 2572.5 MHz	Mid CH 38000 2595 MHz	High CH 38225 2617.5 MHz	3GPP MPR (dB)	Low CH 37775 2572.5 MHz	Mid CH 38000 2595 MHz	High CH 38225 2617.5 MHz	3GPP MPR (dB)
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	i)		
	1	0	23.40	23.08	23.26	0	22.46	22.18	22.37	1
	1	12	23.50	23.14	23.36	0	21.98	21.74	21.87	1
	1	24	23.30	22.97	23.20	0	21.81	21.45	21.67	1
38 / 5M	12	0	22.40	22.09	22.25	1	21.33	21.05	21.19	2
	12	6	22.40	22.17	22.29	1	21.37	21.11	21.23	2
	12	13	22.30	21.99	22.19	1	21.27	20.99	21.18	2
	25	0	22.33	22.07	22.20	1	21.34	21.03	21.21	2
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)			
	1	0	11.00	10.94	10.66	0	10.82	10.80	10.53	0
	1	12	11.93	11.83	11.59	0	11.46	11.48	11.15	0
	1	24	11.57	11.50	11.27	0	11.35	11.25	11.01	0
38 / 5M	12	0	11.72	11.67	11.37	0	11.73	11.71	11.39	0
	12	6	11.78	11.81	11.47	0	11.80	11.80	11.46	0
	12	13	11.81	11.76	11.50	0	11.75	11.73	11.46	0
	25	0	11.76	11.76	11.43	0	11.74	11.69	11.41	0

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 37800 2575 MHz	Mid CH 38000 2595 MHz	High CH 38200 2615 MHz	3GPP MPR (dB)	Low CH 37800 2575 MHz	Mid CH 38000 2595 MHz	High CH 38200 2615 MHz	3GPP MPR (dB)
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)		
	1	0	23.37	23.11	23.26	0	22.46	22.15	22.33	1
	1	24	23.50	23.14	23.37	0	22.03	21.70	21.90	1
	1	49	23.27	23.01	23.16	0	21.81	21.46	21.64	1
38 / 10M	25	0	22.41	22.08	22.28	1	21.35	21.03	21.25	2
	25	12	22.46	22.11	22.29	1	21.41	21.05	21.28	2
	25	25	22.28	21.96	22.18	1	21.26	21.00	21.15	2
	50	0	22.38	22.07	22.17	1	21.38	21.02	21.25	2
			EUT wit	h Power Re	duction (P	-Sensor Tri	ggered)			
	1	0	10.97	10.97	10.66	0	10.82	10.77	10.49	0
	1	24	11.93	11.83	11.60	0	11.51	11.44	11.18	0
	1	49	11.54	11.54	11.23	0	11.35	11.26	10.98	0
38 / 10M	25	0	11.73	11.66	11.40	0	11.75	11.69	11.45	0
	25	12	11.84	11.75	11.47	0	11.84	11.74	11.51	0
	25	25	11.79	11.73	11.49	0	11.74	11.74	11.43	0
	50	0	11.81	11.76	11.40	0	11.78	11.68	11.45	0

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				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 37825 2577.5 MHz	Mid CH 38000 2595 MHz	High CH 38175 2612.5 MHz	3GPP MPR (dB)	Low CH 37825 2577.5 MHz	Mid CH 38000 2595 MHz	High CH 38175 2612.5 MHz	3GPP MPR (dB)
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)		
	1	0	23.44	23.11	23.23	0	22.50	22.22	22.33	1
	1	37	23.48	23.19	23.32	0	22.02	21.71	21.90	1
	1	74	23.33	23.04	23.17	0	21.77	21.51	21.66	1
38 / 15M	36	0	22.38	22.09	22.29	1	21.39	21.03	21.26	2
	36	19	22.47	22.16	22.29	1	21.35	21.09	21.24	2
	36	39	22.26	21.97	22.18	1	21.31	20.98	21.18	2
	75	0	22.38	22.05	22.22	1	21.39	21.05	21.18	2
			EUT wit	h Power Re	eduction (P	-Sensor Tri	ggered)			
	1	0	11.04	10.97	10.63	0	10.86	10.84	10.49	0
	1	37	11.91	11.88	11.55	0	11.50	11.45	11.18	0
	1	74	11.60	11.57	11.24	0	11.31	11.31	11.00	0
38 / 15M	36	0	11.70	11.67	11.41	0	11.79	11.69	11.46	0
	36	19	11.85	11.80	11.47	0	11.78	11.78	11.47	0
	36	39	11.77	11.74	11.49	0	11.79	11.72	11.46	0
	75	0	11.81	11.74	11.45	0	11.79	11.71	11.38	0

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 37850	Mid CH 38000	High CH 38150	3GPP MPR	Low CH 37850	Mid CH 38000	High CH 38150	3GPP MPR
			2580 MHz	2595 MHz	2610 MHz	(dB)	2580 MHz	2595 MHz	2610 MHz	(dB)
		Е	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)		
	1	0	23.45	23.15	23.31	0	22.53	22.23	22.39	1
	1	50	23.52	23.22	23.38	0	22.06	21.76	21.92	1
	1	99	23.35	23.05	23.21	0	21.83	21.53	21.69	1
38 / 20M	50	0	22.44	22.14	22.30	1	21.41	21.11	21.27	2
	50	25	22.48	22.18	22.34	1	21.43	21.13	21.29	2
	50	50	22.34	22.04	22.20	1	21.34	21.04	21.20	2
	100	0	22.39	22.09	22.25	1	21.40	21.10	21.26	2
			EUT wit	h Power Re	eduction (P	-Sensor Tr	iggered)			
	1	0	11.05	11.01	10.71	0	10.89	10.85	10.55	0
	1	50	11.95	11.91	11.61	0	11.54	11.50	11.20	0
	1	99	11.62	11.58	11.28	0	11.37	11.33	11.03	0
38 / 20M	50	0	11.76	11.72	11.42	0	11.81	11.77	11.47	0
	50	25	11.86	11.82	11.52	0	11.86	11.82	11.52	0
	50	50	11.85	11.81	11.51	0	11.82	11.78	11.48	0
	100	0	11.82	11.78	11.48	0	11.80	11.76	11.46	0

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				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 40265 2557.5	Mid CH 40740 2605	High CH 41215 2652.5	3GPP MPR (dB)	Low CH 40265 2557.5	Mid CH 40740 2605	High CH 41215 2652.5	3GPP MPR (dB)
			MHz	MHz	MHz	` '	MHz	MHz	MHz	, ,
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	1)		
	1	0	23.30	22.91	22.97	0	22.16	21.81	21.88	1
	1	12	23.42	22.99	23.09	0	22.01	21.70	21.71	1
	1	24	23.29	22.89	23.00	0	22.43	22.00	22.10	1
41 / 5M	12	0	22.42	22.04	22.08	1	21.36	21.01	21.03	2
	12	6	22.41	22.11	22.11	1	21.30	20.97	20.97	2
	12	13	22.39	22.01	22.09	1	21.26	20.91	20.98	2
	25	0	22.45	22.12	22.13	1	21.29	20.91	20.97	2
			EUT wit	h Power Re	duction (P	-Sensor Tri	iggered)			
	1	0	11.06	10.97	10.77	0	11.08	11.03	10.84	0
	1	12	12.16	12.03	11.87	0	12.07	12.06	11.81	0
	1	24	12.08	11.98	11.83	0	12.14	12.01	11.85	0
41 / 5M	12	0	11.59	11.51	11.29	0	11.57	11.52	11.28	0
	12	6	11.87	11.87	11.61	0	11.96	11.93	11.67	0
	12	13	11.90	11.82	11.64	0	11.90	11.85	11.66	0
	25	0	11.79	11.76	11.51	0	11.81	11.73	11.53	0

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 40290	Mid CH 40740	High CH 41190	3GPP MPR	Low CH 40290	Mid CH 40740	High CH 41190	3GPP MPR
2	0.20	0.1.001	2560 MHz	2605 MHz	2650 MHz	(dB)	2560 MHz	2605 MHz	2650 MHz	(dB)
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	l)		
	1	0	23.27	22.94	22.97	0	22.16	21.78	21.84	1
	1	24	23.42	22.99	23.10	0	22.06	21.66	21.74	1
	1	49	23.26	22.93	22.96	0	22.43	22.01	22.07	1
41 / 10M	25	0	22.43	22.03	22.11	1	21.38	20.99	21.09	2
	25	12	22.47	22.05	22.11	1	21.34	20.91	21.02	2
	25	25	22.37	21.98	22.08	1	21.25	20.92	20.95	2
	50	0	22.50	22.12	22.10	1	21.33	20.90	21.01	2
			EUT wit	h Power Re	duction (P	-Sensor Tri	iggered)			
	1	0	11.03	11.00	10.77	0	11.08	11.00	10.80	0
	1	24	12.16	12.03	11.88	0	12.12	12.02	11.84	0
	1	49	12.05	12.02	11.79	0	12.14	12.02	11.82	0
41 / 10M	25	0	11.60	11.50	11.32	0	11.59	11.50	11.34	0
	25	12	11.93	11.81	11.61	0	12.00	11.87	11.72	0
	25	25	11.88	11.79	11.63	0	11.89	11.86	11.63	0
	50	0	11.84	11.76	11.48	0	11.85	11.72	11.57	0

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				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 40315 2562.5 MHz	Mid CH 40740 2605 MHz	High CH 41165 2647.5 MHz	3GPP MPR (dB)	Low CH 40315 2562.5 MHz	Mid CH 40740 2605 MHz	High CH 41165 2647.5 MHz	3GPP MPR (dB)
		E				Sensor NO	T Triggered		101112	
	1	0	23.34	22.94	22.94	0	22.20	21.85	21.84	1
	1	37	23.40	23.04	23.05	0	22.05	21.67	21.74	1
	1	74	23.32	22.96	22.97	0	22.39	22.06	22.09	1
41 / 15M	36	0	22.40	22.04	22.12	1	21.42	20.99	21.10	2
	36	19	22.48	22.10	22.11	1	21.28	20.95	20.98	2
	36	39	22.35	21.99	22.08	1	21.30	20.90	20.98	2
	75	0	22.50	22.10	22.15	1	21.34	20.93	20.94	2
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)			
	1	0	11.10	11.00	10.74	0	11.12	11.07	10.80	0
	1	37	12.14	12.08	11.83	0	12.11	12.03	11.84	0
	1	74	12.11	12.05	11.80	0	12.10	12.07	11.84	0
41 / 15M	36	0	11.57	11.51	11.33	0	11.63	11.50	11.35	0
	36	19	11.94	11.86	11.61	0	11.94	11.91	11.68	0
	36	39	11.86	11.80	11.63	0	11.94	11.84	11.66	0
	75	0	11.84	11.74	11.53	0	11.86	11.75	11.50	0

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low CH 40340 2565 MHz	Mid CH 40740 2605 MHz	High CH 41140 2645 MHz	3GPP MPR (dB)	Low CH 40340 2565 MHz	Mid CH 40740 2605 MHz	High CH 41140 2645 MHz	3GPP MPR (dB)
		E	UT without	Power Re	duction (P-	Sensor NO	T Triggered	1)		
	1	0	23.35	22.98	23.02	0	22.23	21.86	21.90	1
41 / 20M	1	50	23.44	23.07	23.11	0	22.09	21.72	21.76	1
	1	99	23.34	22.97	23.01	0	22.45	22.08	22.12	1
	50	0	22.46	22.09	22.13	1	21.44	21.07	21.11	2
	50	25	22.49	22.12	22.16	1	21.36	20.99	21.03	2
	50	50	22.43	22.06	22.10	1	21.33	20.96	21.00	2
	100	0	22.51	22.14	22.18	1	21.35	20.98	21.02	2
			EUT wit	h Power Re	eduction (P	-Sensor Tri	iggered)			
	1	0	11.11	11.04	10.82	0	11.15	11.08	10.86	0
	1	50	12.18	12.11	11.89	0	12.15	12.08	11.86	0
	1	99	12.13	12.06	11.84	0	12.16	12.09	11.87	0
41 / 20M	50	0	11.63	11.56	11.34	0	11.65	11.58	11.36	0
-	50	25	11.95	11.88	11.66	0	12.02	11.95	11.73	0
	50	50	11.94	11.87	11.65	0	11.97	11.90	11.68	0
	100	0	11.85	11.78	11.56	0	11.87	11.80	11.58	0

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<WLAN 2.4G>

Mode		802.11b					
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)				
E	JT without Power Reduction	(P-Sensor NOT Triggered)					
Average Power	16.38	15.28	15.86				
	EUT with Power Reduction	(P-Sensor Triggered)					
Average Power	14.12	14.15	13.56				
Mode							
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)				
E	EUT without Power Reduction (P-Sensor NOT Triggered)						
Average Power	14.48	13.98	14.13				
	EUT with Power Reduction	(P-Sensor Triggered)					
Average Power	12.02	11.42	12.15				
Mode		802.11n (HT20)					
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)				
E	JT without Power Reduction	(P-Sensor NOT Triggered)					
Average Power	14.06	14.08	13.62				
EUT with Power Reduction (P-Sensor Triggered)							
Average Power	12.13	12.17	11.65				

<WLAN 5.2G>

Mode	802.11a						
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)			
Average Power	14.03	14.05	14.06	14.07			
Mode	802.11n (HT20)						
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)			
Average Power	14.03	14.32	14.25	14.06			
Mode	802.11n (HT40)						
Channel / Frequency (MHz)	38 (5190)	46 (5230)				
Average Power	12.48		12.13				
Mode	802.11ac (VHT20)						
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)			
Average Power	13.98	14.15	13.89	13.92			
Mode	802.11ac (VHT40)						
Channel / Frequency (MHz)	38 (5190)	46 (5230)				
Average Power	12	.04	11.81				
Mode	802.11ac (VHT80)						
Channel / Frequency (MHz)		42 (5210)				
Average Power	12.9						

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