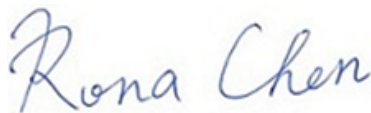


FCC SAR Test Report

Report No. : SA180914C21J
Applicant : HON HAI Precision Ind. Co., Ltd.
Address : 5F-1, 5 Hsin-An Road Hsinchu, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C
Product : LTE M.2 Module
FCC ID : MCLT77W968-D1
Brand : FOXCONN
Model No. : T77W968
Standards : FCC 47 CFR Part 2 (2.1093), IEEE C95.1:1992, IEEE Std 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, KDB 941225 D05A v01r02
Sample Received Date : Sep. 14, 2018
Date of Testing : Jan. 17, 2019 ~ Feb. 23, 2019
Lab Address : No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
Test Location : No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, 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 TAF or any government agencies.

Prepared By :



Rona Chen / Specialist

Approved By :



Gordon Lin / Assistant Manager



FCC Accredited No.: TW0003

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Release Control Record

Report No.	Reason for Change	Date Issued
SA180914C21J	Initial release	Feb. 25, 2019

1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest SAR-1g Body (W/kg)	
		Tablet PC Mode	Laptop PC Mode
PCB	WCDMA II	1.17	1.14
	WCDMA IV	0.83	1.06
	WCDMA V	0.76	0.41
	LTE 2 & 25	1.06	1.18
	LTE 4 & 66	0.87	0.60
	LTE 5	0.84	0.48
	LTE 7	0.58	0.27
	LTE 12	1.17	0.80
	LTE 13	0.77	0.48
	LTE 14	1.13	0.53
	LTE 17	0.47	0.31
	LTE 26	0.88	0.48
	LTE 30	0.23	0.17
	LTE 38	0.97	0.45
	LTE 41	0.36	0.16

Highest Simultaneous Transmission SAR	Highest SAR-1g Body (W/kg)			
	9560NGW		QCNFA344A	
	Tablet PC Mode	Laptop PC Mode	Tablet PC Mode	Laptop PC Mode
	1.59	1.55	1.59	1.55

Note:

1. The SAR criteria (**Head & Body: SAR-1g 1.6 W/kg, and 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.
2. This device supports both LTE band 66 and band 4. The frequency span of LTE band 66 can completely cover LTE band 4, and they has the same tune-up power. SAR was tested for LTE band 66 only.
3. This device supports both LTE band 25 and band 2. The frequency span of LTE band 25 can completely cover LTE band 2, and they has the same tune-up power. SAR was tested for LTE band 25 only.
4. For SAR test result of WLAN / BT module QCNFA344A, please refer to BV CPS report no.: SA180914C21E.
5. For SAR test result of WLAN / BT module 9560NGW, please refer to Intel report no.: 181119-01.TR01.

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2. Description of Equipment Under Test

EUT Type	LTE M.2 Module
FCC ID	MCLT77W968-D1
Brand Name	FOXCONN
Model Name	T77W968
Tx Frequency Bands (Unit: MHz)	WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band IV : 1712.4 ~ 1752.6 WCDMA Band V : 826.4 ~ 846.6 LTE Band 2 : 1850.7 ~ 1909.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 4 : 1710.7 ~ 1754.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 5 : 824.7 ~ 848.3 (BW: 1.4M, 3M, 5M, 10M) LTE Band 7 : 2502.5 ~ 2567.5 (BW: 5M, 10M, 15M, 20M) LTE Band 12 : 699.7 ~ 715.3 (BW: 1.4M, 3M, 5M, 10M) LTE Band 13 : 779.5 ~ 784.5 (BW: 5M, 10M) LTE Band 14 : 790.5 ~ 795.5 (BW: 5M, 10M) LTE Band 17 : 706.5 ~ 713.5 (BW: 5M, 10M) LTE Band 25 : 1850.7 ~ 1914.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 26 : 814.7 ~ 848.3 (BW: 1.4M, 3M, 5M, 10M, 15M) LTE Band 30 : 2307.5 ~ 2312.5 (BW: 5M, 10M) LTE Band 38 : 2572.5 ~ 2617.5 (BW: 5M, 10M, 15M, 20M) LTE Band 41 : 2498.5 ~ 2687.5 (BW: 5M, 10M, 15M, 20M) LTE Band 66 : 1710.7 ~ 1779.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M)
Uplink Modulations	WCDMA : QPSK LTE : QPSK, 16QAM, 64QAM
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.6.1 of this report
Antenna Type	Refer to Note as below
EUT Stage	Mass product

Note:

- The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model
Portable Computer	DELL	P110G

- The WLAN modules (Brand: Intel, Model: 9560NGW / Brand: Qualcomm Atheros, Model: QCNFA344A) were installed in the End-product. The specification is listed as below.

WLAN module	
Tx Frequency Bands (Unit: MHz)	WLAN : 2412 ~ 2472, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720, 5745 ~ 5825 Bluetooth : 2402 ~ 2480
Uplink Modulations	802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, $\pi/4$ -DQPSK, 8-DPSK
Antenna Type	WLAN/BT: PIFA Antenna (Peak Antenna Gain : -3.63 dBi for 2.4GHz, -1.83 dBi for 5GHz)
FCC ID	Contains FCC ID of 9560NGW: PD99560NG Contains FCC ID of QCNFA344A: PPD-QCNFA344AH

- The antenna information is listed as below.

Antenna Type	Manuf.	Parts Number	Antenna Gain (dBi)													
			WCDMA II / LTE 2	WCDMA IV / LTE 4	WCDMA V / LTE 5	LTE 7	LTE 12	LTE 13	LTE 14	LTE 17	LTE 25	LTE 26	LTE 30	LTE 38	LTE 41	LTE 66
PIFA	Hong-Bo	260-24221 (DC330025S0L)	0.68	-0.60	-1.71	0.16	-5.22	-2.53	-2.34	-4.73	0.68	-1.71	-0.34	-0.95	0.16	-0.16

- 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.

List of Accessory:

Battery 1 (6 Cell)	Brand Name	DELL
	Model Name	7146W
	Power Rating	11.4Vdc, 6500mAh, 78Wh
	Type	Li-ion
Battery 2 (4 Cell)	Brand Name	DELL
	Model Name	NF2MW
	Power Rating	7.6Vdc, 6500mAh, 52Wh
	Type	Li-ion

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 DASY52 System

DASY52 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 DASY52 software defined. The DASY52 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.



Fig-3.1 SPEAG DASY52 System Setup

3.2.1 Robot

The DASY52 systems use the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version of 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)



Fig-3.2 SPEAG DASY52 System

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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 μ W/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

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).	
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 μ W/g to 100 mW/g Linearity: ± 0.2 dB	
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	

Model	ET3DV6	
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 2.3 GHz; Linearity: ± 0.2 dB	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.4 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g to 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (Tip: 16 mm) Tip diameter: 6.8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.7 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 Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	$< 5\mu$ V (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	
Construction	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.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	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	

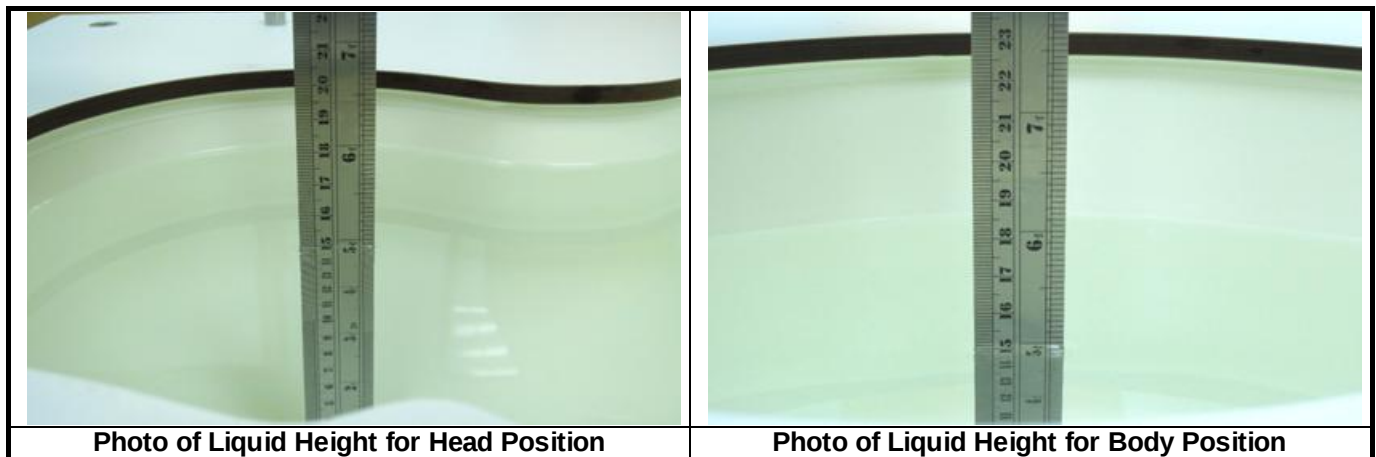
Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the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

3.2.6 System Validation Dipoles

Model	D-Serial	
Construction	Symmetrical dipole with 1/4 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)	

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 (MHz)	Target Permittivity	Range of $\pm 5\%$	Target Conductivity	Range of $\pm 5\%$
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
For Body				
750	55.5	52.7 ~ 58.3	0.96	0.91 ~ 1.01
835	55.2	52.4 ~ 58.0	0.97	0.92 ~ 1.02
900	55.0	52.3 ~ 57.8	1.05	1.00 ~ 1.10
1450	54.0	51.3 ~ 56.7	1.30	1.24 ~ 1.37
1640	53.8	51.1 ~ 56.5	1.40	1.33 ~ 1.47
1750	53.4	50.7 ~ 56.1	1.49	1.42 ~ 1.56
1800	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
1900	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2000	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2300	52.9	50.3 ~ 55.5	1.81	1.72 ~ 1.90
2450	52.7	50.1 ~ 55.3	1.95	1.85 ~ 2.05
2600	52.5	49.9 ~ 55.1	2.16	2.05 ~ 2.27
3500	51.3	48.7 ~ 53.9	3.31	3.14 ~ 3.48
5200	49.0	46.6 ~ 51.5	5.30	5.04 ~ 5.57
5300	48.9	46.5 ~ 51.3	5.42	5.15 ~ 5.69
5500	48.6	46.2 ~ 51.0	5.65	5.37 ~ 5.93
5600	48.5	46.1 ~ 50.9	5.77	5.48 ~ 6.06
5800	48.2	45.8 ~ 50.6	6.00	5.70 ~ 6.30

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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
B750	0.2	-	0.2	0.8	48.8	-	50.0	-
B835	0.2	-	0.2	0.9	48.5	-	50.2	-
B900	0.2	-	0.2	0.9	48.2	-	50.5	-
B1450	-	34.0	-	0.3	-	-	65.7	-
B1640	-	32.5	-	0.3	-	-	67.2	-
B1750	-	31.0	-	0.2	-	-	68.8	-
B1800	-	29.5	-	0.4	-	-	70.1	-
B1900	-	29.5	-	0.3	-	-	70.2	-
B2000	-	30.0	-	0.2	-	-	69.8	-
B2300	-	31.0	-	0.1	-	-	68.9	-
B2450	-	31.4	-	0.1	-	-	68.5	-
B2600	-	31.8	-	0.1	-	-	68.1	-
B3500	-	28.8	-	0.1	-	-	71.1	-
B5G	-	-	-	-	-	10.7	78.6	10.7

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.

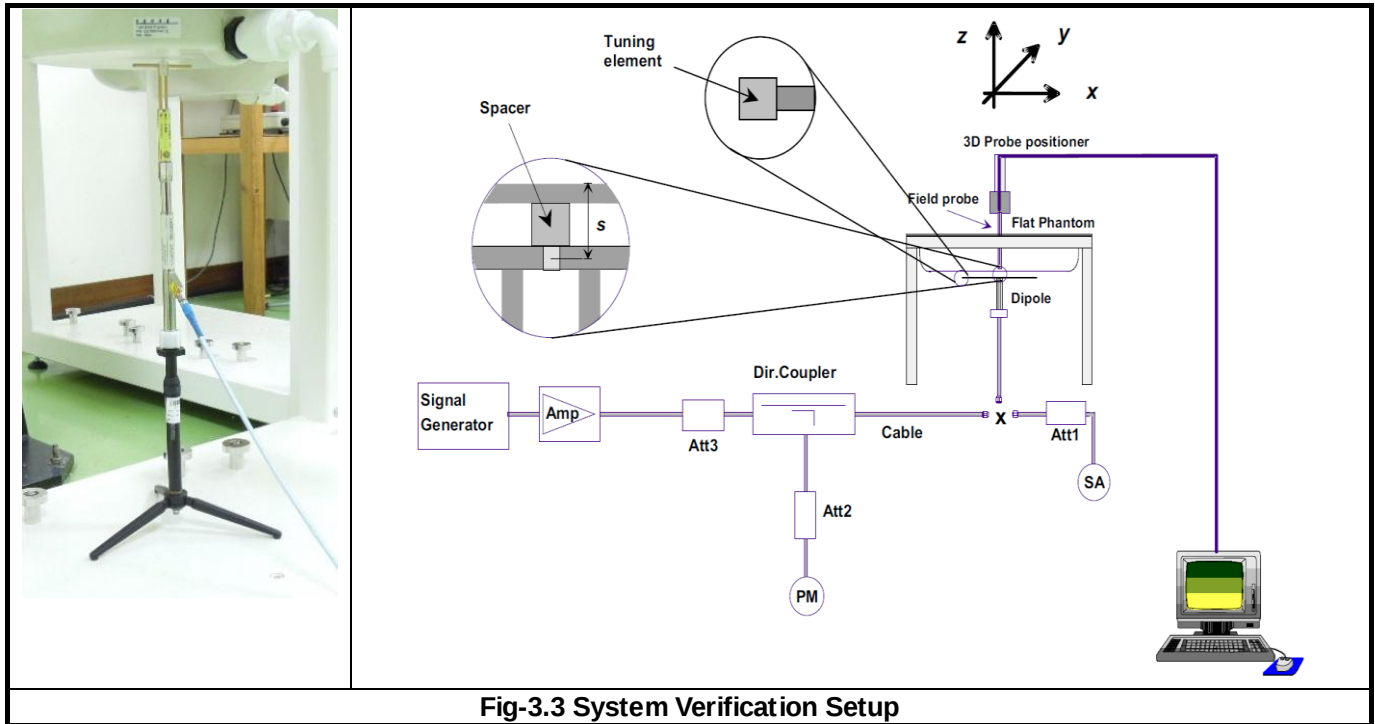


Fig-3.3 System Verification Setup

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 %.

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:

- Power reference measurement
- Area scan
- Zoom scan
- Power drift measurement

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

- Make EUT to transmit maximum output power
- Measure conducted output power through RF cable
- Place the EUT in the specific position of phantom
- Perform SAR testing steps on the DASY system
- 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 ($\Delta x, \Delta y$)	≤ 15 mm	≤ 12 mm	≤ 12 mm	≤ 10 mm	≤ 10 mm
Zoom Scan ($\Delta x, \Delta y$)	≤ 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.

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 from 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.

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 for WCDMA and LTE on Rear Face and Bottom Side of EUT for SAR compliance. Others RF capability (WLAN and Bluetooth) have no power reduction. The power levels for all wireless technologies and the power reduction please refer to section 4.6 of this report.

Proximity Sensor Triggering Distances (KDB 616217 D04 §6.2)

The proximity sensor triggering distance was determined per KDB 616217 for rear face and applicable edge. Summary for power verification per distance was tabulated in the below table.

Output Power Verification in dBm for EUT Rear Face											
Distance (mm)	12	13	14	15	16	17	18	19	20	21	22
WCDMA II	18.7	18.6	18.6	18.7	19.0	19.0	23.3	23.3	23.7	23.6	23.7
WCDMA IV	18.3	18.1	17.9	17.9	18.1	18.3	23.7	23.6	23.2	23.6	23.4
WCDMA V	19.0	18.9	19.2	19.1	18.8	18.8	23.8	23.8	23.7	23.4	23.4
LTE 2	19.0	19.0	18.7	18.9	18.5	18.8	23.9	23.8	23.6	23.6	24.0
LTE 4	18.1	18.4	18.2	18.4	18.0	18.1	23.8	23.3	23.8	23.5	23.3
LTE 5	19.2	19.5	19.4	19.2	19.2	19.0	23.3	23.4	23.6	23.5	23.4
LTE 7	17.4	17.1	17.4	17.4	17.4	17.2	23.5	23.4	23.7	23.7	23.5
LTE 12	21.5	21.7	21.5	22.0	21.9	21.8	23.5	23.8	23.3	23.3	23.3
LTE 13	19.0	19.3	19.0	19.4	19.1	19.1	23.5	23.4	23.5	23.8	23.8
LTE 14	19.1	19.5	19.3	19.3	19.1	19.4	23.7	23.8	23.3	23.6	23.6
LTE 17	23.0	22.6	22.6	23.0	22.6	22.8	23.8	23.9	23.8	23.4	23.6
LTE 25	19.7	19.5	19.6	19.9	19.8	19.6	23.2	23.4	23.5	23.2	23.7
LTE 26	19.2	19.0	19.0	19.1	19.4	18.9	23.4	23.4	23.8	23.7	23.7
LTE 30	17.0	16.7	16.5	16.7	16.8	16.8	22.1	21.9	22.1	21.6	22.0
LTE 66	19.1	19.1	19.5	19.5	19.2	19.0	23.4	23.5	23.5	23.3	23.3
LTE 38	17.5	17.5	17.1	17.6	17.1	17.5	23.8	23.5	23.9	23.6	23.8
LTE 41	16.8	16.9	16.5	16.5	16.7	17.0	23.4	23.6	23.5	23.8	23.6

Output Power Verification in dBm for EUT Bottom Edge											
Distance (mm)	13	14	15	16	17	18	19	20	21	22	23
WCDMA II	18.6	19.0	18.6	18.7	19.0	18.5	23.4	23.2	23.3	23.5	23.5
WCDMA IV	17.9	17.9	18.3	18.1	18.0	18.0	23.3	23.3	23.3	23.3	23.7
WCDMA V	19.2	18.8	18.8	18.8	18.8	19.2	23.8	23.9	23.6	23.5	23.6
LTE 2	19.0	18.7	18.8	19.0	19.0	18.5	23.5	23.9	24.0	23.9	23.7
LTE 4	18.0	18.4	18.0	18.4	18.3	18.0	23.3	23.7	23.3	23.8	23.7
LTE 5	19.1	19.1	19.4	19.5	19.1	19.0	23.7	23.3	23.3	23.5	23.4
LTE 7	17.4	17.4	17.3	17.2	17.4	17.5	23.5	23.7	23.3	23.5	23.7
LTE 12	21.7	21.5	21.7	21.7	21.9	21.5	23.7	23.4	23.3	23.3	23.3
LTE 13	19.3	19.4	18.9	19.0	19.1	19.0	23.7	23.6	23.8	23.6	23.5
LTE 14	19.4	19.3	19.4	19.5	19.1	19.3	23.7	23.6	23.4	23.7	23.8
LTE 17	22.5	22.6	22.9	22.8	22.9	22.5	23.7	23.7	23.9	23.6	23.7
LTE 25	19.7	19.9	19.6	19.9	20.0	19.8	23.2	23.2	23.5	23.4	23.6
LTE 26	19.4	19.4	19.1	19.4	19.4	19.1	23.4	23.7	23.6	23.7	23.7
LTE 30	16.5	17.0	16.6	16.6	16.9	17.0	21.8	22.1	21.6	21.9	21.8
LTE 66	19.1	19.2	19.5	19.2	19.2	19.4	23.3	23.6	23.5	23.4	23.4
LTE 38	17.1	17.5	17.6	17.6	17.1	17.5	23.5	23.8	23.6	23.4	23.7
LTE 41	16.5	16.8	16.7	16.5	16.6	16.6	23.7	23.3	23.8	23.4	23.4

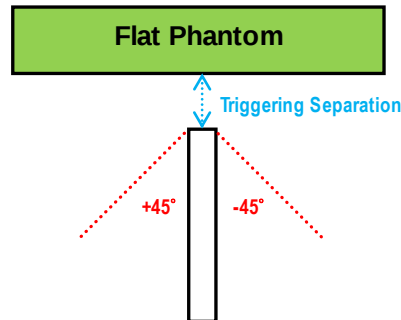
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Proximity Sensor Coverage (KDB 616217 D04 §6.3)

Since the proximity sensor is collocated with antenna in one component, the procedure for proximity sensor coverage is not required.

Proximity Sensor Tilt Angle Influences (KDB 616217 D04 §6.4)

The proximity sensor tilt angle influence was determined per KDB 616217 for applicable edge. Summary for proximity sensor tilt angle influence is shown in below.



Orientation	Separation Distance (mm)	Tilt Angle											
		-45°	-40°	-30°	-20°	-10°	0°	10°	20°	30°	40°	45°	
Bottom Edge	18	Off	On	On	On	On	On	On	On	On	On	On	
	17	Off	On	On	On	On	On	On	On	On	On	On	
	16	Off	On	On	On	On	On	On	On	On	On	On	
	15	On	On	On	On	On	On	On	On	On	On	On	

Summary for Proximity Sensor Triggering Test

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 17 mm for EUT Rear Face, and 15 mm for Bottom Side. The separation distance of 15 mm determined by the smallest triggering distance on Bottom 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 15 mm for the Bottom Side. 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 16 mm for EUT Rear Face, and 14 mm for Bottom Side were 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.

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<Connections between EUT and System Simulator>

For WWAN SAR testing, the EUT was linked and controlled by base station emulator. 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.

<Considerations Related to WCDMA for Setup and Testing>

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	β_c	β_d	β_d (SF)	β_d/β_c	$\beta_{HS}^{(1)(2)}$	CM ⁽³⁾ (dB)	MPR ⁽³⁾ (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	12/15 ⁽⁴⁾	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

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

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

Note 4: For subtest 2 the β_d/β_c 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 $\beta_c = 11/15$ and $\beta_d = 15/15$.

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.

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Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	$\beta_{HS}^{(1)}$	β_{ec}	$\beta_{ed}^{(4)(5)}$	β_{ed} (SF)	β_{ed} (Codes)	CM ⁽²⁾ (dB)	MPR ⁽²⁾⁽⁶⁾ (dB)	AG ⁽⁵⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/1 β_{ed2} : 47/1	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	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1 For subtest 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 \cdot \beta_c$. For subtest 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{HS} = 5/15 \cdot \beta_c$.

Note 2 CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DSCH, DPCH, DPCH, DPCH and DPCH the MPR is based on the relative 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 factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4 In case of testing by UE using E-UTRA Physical Layer category-1, this is omitted according to TS25.306 Table 5.1g.

Note 5 β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6 For subtests 2, 3 and 4, UE may perform DPCH power scaling at max power which could results in slightly smaller MPR values.

HSPA+ SAR Guidance

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

Sub-test	$\beta_c^{(3)}$	β_d	$\beta_{HS}^{(1)}$	β_{ec}	$\beta_{ed}^{(4)}$ (2xSF2)	$\beta_{ed}^{(4)}$ (2xSF4)	CM ⁽²⁾ (dB)	MPR ⁽²⁾ (dB)	AG ⁽⁴⁾ Index	E-TFCI ⁽⁵⁾	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

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

Note 2 CM = 3.5 and the MPR is based on the relative CM difference, $MPR = 0 \cdot \text{MAX}(\text{CM})$.

Note 3 DPCH is not configured, therefore it is set to 1 and $\beta_d = 0$ by default.

Note 4 β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5 All the subtests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply DPCH using category 7 EDCH TTI is set to 2ms TTI and the table index = 2. To support these configurations DPCH is not allocated. The UE is to use the extrapolation algorithm.

DC-HSDPA SAR Guidance

The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Otherwise, when SAR is required for Rel. 5 HSDPA, SAR is required for Rel. 8 DC-HSDPA. 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 secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

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<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
2	V	V	V	V	V	V
4	V	V	V	V	V	V
5	V	V	V	V		
7			V	V	V	V
12	V	V	V	V		
13			V	V		
14			V	V		
17			V	V		
25	V	V	V	V	V	V
26	V	V	V	V	V	
30			V	V		
38			V	V	V	V
41			V	V	V	V
66	V	V	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.

Modulation	Channel Bandwidth / RB Configurations						LTE MPR Setting (dB)
	BW 1.4 MHz	BW 3 MHz	BW 5 MHz	BW 10 MHz	BW 15 MHz	BW 20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	<= 5	<= 4	<= 8	<= 12	<= 16	<= 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	<= 5	<= 4	<= 8	<= 12	<= 16	<= 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

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

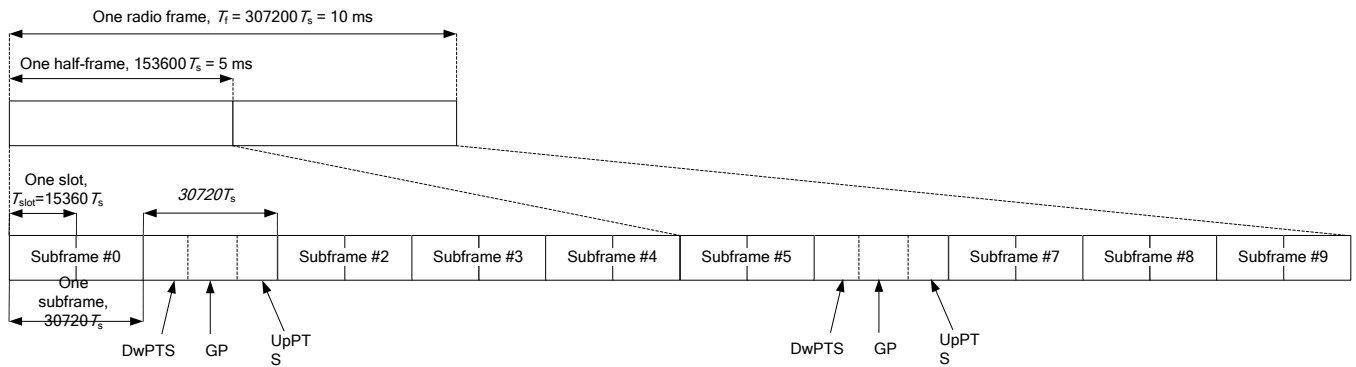
In addition, the device is compliant with additional maximum power reduction (A-MPR) requirements defined in 3GPP TS 36.101 section 6.2.4 that was disabled for all FCC compliance testing.

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.

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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.



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

Special Subframe Configuration	Normal Cyclic Prefix in Downlink			Extended Cyclic Prefix in Downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink
0	6592 • Ts	2192 • Ts	2560 • Ts	7680 • Ts	2192 • Ts	2560 • Ts
1	19760 • Ts			20480 • Ts		
2	21952 • Ts			23040 • Ts		
3	24144 • Ts			25600 • Ts		
4	26336 • Ts			7680 • Ts		
5	6592 • Ts	4384 • Ts	5120 • Ts	20480 • Ts	4384 • Ts	5120 • Ts
6	19760 • Ts			23040 • Ts		
7	21952 • Ts			12800 • Ts		
8	24144 • Ts			-	-	-
9	13168 • Ts			-	-	-

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

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-Point Periodicity	Subframe Number									
		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

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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%

LTE Downlink Carrier Aggregation (CA) Setup Configurations

LTE Carrier Aggregation (CA) was defined in 3GPP release 10 and higher. The LTE device in CA mode has one Primary Component Carrier (PCC) and one or more Secondary Component Carriers (SCC). PCC acts as the anchor carrier and can optionally cross-schedule data transmission on SCC. The RRC connection is only handled by one cell, the PCC for downlink and uplink communications. After making a data connection to the PCC, the LTE device adds the SCC on the downlink only. All uplink communications and acknowledgements remain identical to release 8 specifications on the PCC. The combinations of downlink carrier aggregation supported by this device are listed in below.

LTE CA Configurations and Bandwidth Combination Sets defined for Intra-Band Contiguous CA

Downlink CA Configuration	Component carriers in order of increasing carrier frequency			Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
	Channel bandwidths for carrier-1 (MHz)	Channel bandwidths for carrier-2 (MHz)	Channel bandwidths for carrier-3 (MHz)		
CA_5B	5, 10	10		20	0
	10	5			
	3	5		8	1
	5	3			
CA_7C	15	15		40	0
	20	20			
	10	20			
	15	15, 20		40	1
	20	10, 15, 20			
	15	10, 15		40	2
CA_38C	20	15, 20			
	15	15		40	0
	20	20			
CA_41C	10	20			
	15	15, 20		40	0
	20	10, 15, 20			
	5, 10	20			
	15	15, 20		40	1
	20	5, 10, 15, 20			
	10	15, 20			
	15	10, 15, 20		40	2
	20	10, 15, 20			
	10	20		40	3
CA_66B	20	20			
	5	5, 10, 15			
	10	5, 10		20	0
CA_66C	15	5			
	5	20			
	10	15, 20		40	0
	15	10, 15, 20			
	20	5, 10, 15, 20			

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Downlink CA Configuration	Component carriers in order of increasing carrier frequency			Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
	Channel bandwidths for carrier-1 (MHz)	Channel bandwidths for carrier-2 (MHz)	Channel bandwidths for carrier-3 (MHz)		
CA_66D	5	20		60	0
	20	5			
	20	20			
	10	20			
	15	20			
	10, 15, 20	15, 20			
	15, 20	10			
	15	15, 20			
	20	15, 20			
	20	10			

LTE CA Configurations and Bandwidth Combination Sets defined for Intra-Band Non-Contiguous CA

Downlink CA Configuration	Component Carriers in order of Increasing Carrier Frequency			Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
	Channel Bandwidths for Carrier-1 (MHz)	Channel Bandwidths for Carrier-2 (MHz)	Channel Bandwidths for Carrier-3 (MHz)		
CA_2A-2A	5, 10, 15, 20	5, 10, 15, 20		40	0
CA_4A-4A	5, 10, 15, 20	5, 10, 15, 20		40	0
	5, 10	5, 10		20	1
CA_25A-25A	5, 10	5, 10		20	0
	5, 10, 15, 20	5, 10, 15, 20		40	1
CA_66A-66A	5, 10, 15, 20	5, 10, 15, 20		40	0
CA_66A-66B	5, 10, 15, 20	Refer to CA_66B (BCS0)		40	0
	Refer to CA_66B (BCS0)		5, 10, 15, 20		
CA_66A-66C	5, 10, 15, 20	Refer to CA_66C (BCS0)		60	0
	Refer to CA_66C (BCS0)		5, 10, 15, 20		

LTE CA Configurations and Bandwidth Combination Sets defined for Inter-Band CA (Two Bands)

Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_2A-4A	2	1.4, 3, 5, 10, 15, 20	40	0
	4	5, 10, 15, 20		
	2	5, 10	20	1
	4	5, 10		
	2	5, 10, 15, 20	40	2
	4	5, 10, 15, 20		
CA_2A-2A-4A	2	Refer to CA_2A-2A (BCS0)	60	0
	4	5, 10, 15, 20		
CA_2A-4A-4A	2	5, 10, 15, 20	60	0
	4	Refer to CA_4A-4A (BCS0)		
CA_2A-5A	2	5, 10, 15, 20	30	0
	5	5, 10		
	2	5, 10	20	1
	5	5, 10		
CA_2A-2A-5A	2	Refer to CA_2A-2A (BCS0)	50	0
	5	5, 10		
CA_2A-5B	2	5, 10, 15, 20	40	0
	5	Refer to CA_5B (BCS0)		

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Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_2A-12A	2	5, 10, 15, 20	30	0
	12	5, 10		
	2	5, 10, 15, 20	30	1
	12	3, 5, 10		
	2	5, 10	20	2
	12	5, 10		
CA_2A-13A	2	5, 10, 15, 20	30	0
	13	10		
	2	5, 10	20	1
	13	10		
CA_2A-2A-13A	2	Refer to CA_2A-2A (BCS0)	50	0
	13	10		
CA_2A-14A	2	5, 10, 15, 20	30	0
	14	5, 10		
CA_2A-30A	2	5, 10, 15, 20	30	0
	30	5, 10		
CA_2A-2A-30A	2	Refer to CA_2A-2A (BCS0)	50	0
	30	5, 10		
CA_2A-66A	2	1.4, 3, 5, 10, 15, 20	40	0
	66	5, 10, 15, 20		
	2	5, 10	20	1
	66	5, 10		
	2	5, 10, 15, 20	40	2
	66	5, 10, 15, 20		
CA_2A-66B	2	5, 10, 15, 20	40	0
	66	Refer to CA_66B (BCS0)		
CA_2A-66C	2	5, 10, 15, 20	60	0
	66	Refer to CA_66C (BCS0)		
CA_2A-2A-66A	2	Refer to CA_2A-2A (BCS0)	60	0
	66	5, 10, 15, 20		
CA_2A-2A-66A-66A	2	Refer to CA_2A-2A (BCS0)	80	0
	66	Refer to CA_66A-66A (BCS0)		
CA_2A-66A-66A	2	5, 10, 15, 20	60	0
	66	Refer to CA_66A-66A (BCS0)		
CA_2A-2A-66B	2	Refer to CA_2A-2A (BCS0)	60	0
	66	Refer to CA_66B (BCS0)		
CA_2A-2A-66C	2	Refer to CA_2A-2A (BCS0)	80	0
	66	Refer to CA_66C (BCS0)		

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Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_4A-5A	4	5, 10	20	0
	5	5, 10		
	4	5, 10, 15, 20	30	1
	5	5, 10		
CA_4A-4A-5A	4	Refer to CA_4A-4A (BCS0)	50	0
	5	5, 10		
CA_4A-13A	4	5, 10, 15, 20	30	0
	13	10		
	4	5, 10	20	1
	13	10		
CA_5A-30A	5	5, 10	20	0
	30	5, 10		
CA_5B-30A	5	Refer to CA_5B (BCS0)	30	0
	30	5, 10		
CA_5A-66A	5	5, 10	30	0
	66	5, 10, 15, 20		
CA_5A-66A-66A	5	5, 10	50	0
	66	Refer to CA_66A-66A (BCS0)		
CA_5A-66B	5	5, 10	30	0
	66	Refer to CA_66B (BCS0)		
CA_5A-66C	5	5, 10	50	0
	66	Refer to CA_66C (BCS0)		
CA_12A-30A	12	5, 10	20	0
	30	5, 10		
CA_12A-66A	12	5, 10	20	0
	66	1.4, 3, 5, 10		
	12	5, 10	30	1
	66	1.4, 3, 5, 10, 15, 20		
	12	3, 5, 10	30	2
	66	5, 10, 15, 20		
	12	5, 10	20	3
	66	5, 10		
	12	5, 10	30	4
	66	5, 10, 15, 20		
	12	5	20	5
	66	5, 10, 15		
CA_12A-66A-66A	12	5, 10	50	0
	66	Refer to CA_66A-66A (BCS0)		
CA_13A-66A	13	5, 10	30	0
	66	5, 10, 15, 20		
CA_13A-66A-66A	13	5, 10	50	0
	66	Refer to CA_66A-66A (BCS0)		
CA_13A-66A-66B	13	5, 10	50	0
	66	Refer to CA_66A-66B (BCS0)		
CA_13A-66A-66C	13	5, 10	70	0
	66	Refer to CA_66A-66C (BCS0)		
CA_14A-66A	14	5, 10	30	0
	66	5, 10, 15, 20		
CA_14A-66A-66A	14	5, 10	50	0
	66	Refer to CA_66A-66A (BCS0)		
CA_14A-30A	14	5, 10	20	0
	30	5, 10		

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Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_25A-26A	25	3, 5, 10, 15, 20	35	0
	26	1.4, 3, 5, 10, 15		
	25	3, 5, 10	20	1
	26	3, 5, 10		
	25	5, 10	20	2
	26	5, 10		
CA_30A-66A	30	5, 10	30	0
	66	5, 10, 15, 20		
CA_30A-66A-66A	30	5, 10	50	0
	66	Refer to CA_66A-66A (BCS0)		

LTE CA Configurations and Bandwidth Combination Sets defined for Inter-Band CA (Three Bands)

Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_2A-4A-5A	2	5, 10, 15, 20	50	0
	4	5, 10, 15, 20		
	5	5, 10		
CA_2A-4A-13A	2	5, 10, 15, 20	50	0
	4	5, 10, 15, 20		
	13	10		
CA_2A-2A-5A-66A	2	Refer to CA_2A-2A (BCS0)	70	0
	5	5, 10		
	66	5, 10, 15, 20		
CA_2A-2A-5A-66B	2	Refer to CA_2A-2A (BCS0)	70	0
	5	5, 10		
	66	Refer to CA_66B (BCS0)		
CA_2A-2A-5A-66C	2	Refer to CA_2A-2A (BCS0)	90	0
	5	5, 10		
	66	Refer to CA_66C (BCS0)		
CA_2A-2A-13A-66A	2	Refer to CA_2A-2A (BCS0)	70	0
	13	5, 10		
	66	5, 10, 15, 20		
CA_2A-5A-30A	2	5, 10, 15, 20	40	0
	5	5, 10		
	30	5, 10		
CA_2A-2A-5A-30A	2	Refer to CA_2A-2A (BCS0)	60	0
	5	5, 10		
	30	5, 10		
CA_2A-5B-30A	2	5, 10, 15, 20	50	0
	5	Refer to CA_5B (BCS0)		
	30	5, 10		
CA_2A-5A-66A	2	5, 10, 15, 20	50	0
	5	5, 10		
	66	5, 10, 15, 20		

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Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_2A-5A-66A-66A	2	5, 10, 15, 20	70	0
	5	5, 10		
	66	Refer to CA_66A-66A (BCS0)		
CA_2A-5B-66A-66A	2	5, 10, 15, 20	80	0
	5	Refer to CA_5B (BCS0)		
	66	Refer to CA_66A-66A (BCS0)		
CA_2A-5A-66B	2	5, 10, 15, 20	50	0
	5	5, 10		
	66	Refer to CA_66B (BCS0)		
CA_2A-5A-66C	2	5, 10, 15, 20	70	0
	5	5, 10		
	66	Refer to CA_66C (BCS0)		
CA_2A-5B-66A	2	5, 10, 15, 20	60	0
	5	Refer to CA_5B (BCS0)		
	66	5, 10, 15, 20		
CA_2A-5B-66C	2	5, 10, 15, 20	80	0
	5	Refer to CA_5B (BCS0)		
	66	Refer to CA_66C (BCS0)		
CA_2A-12A-30A	2	5, 10, 15, 20	40	0
	12	5, 10		
	30	5, 10		
CA_2A-2A-12A-30A	2	Refer to CA_2A-2A (BCS0)	60	0
	12	5, 10		
	30	5, 10		
CA_2A-12A-66A	2	5, 10, 15, 20	50	0
	12	5, 10		
	66	5, 10, 15, 20		
	2	5, 10	40	1
	12	5, 10		
	66	5, 10, 15, 20		
CA_2A-2A-12A-66A	2	5, 10, 15, 20	70	0
	12	5, 10		
	66	Refer to 66A-66A (BCS0)		
CA_2A-12A-66A-66A	2	5, 10, 15, 20	70	0
	12	5, 10		
	66	Refer to 66A-66A (BCS0)		
CA_2A-13A-46D	2	5, 10, 15, 20	90	0
	13	5, 10		
	46	Refer to 46D (BCS0)		
CA_2A-13A-66A	2	5, 10, 15, 20	50	0
	13	5, 10		
	66	5, 10, 15, 20		
CA_2A-13A-66A-66A	2	5, 10, 15, 20	70	0
	13	5, 10		
	66	Refer to CA_66A-66A		
CA_2A-13A-66B	2	5, 10, 15, 20	50	0
	13	5, 10		
	66	Refer to CA_66B (BCS0)		
CA_2A-13A-66C	2	5, 10, 15, 20	70	0
	13	5, 10		
	66	Refer to CA_66C (BCS0)		
CA_2A-14A-30A	2	5, 10, 15, 20	40	0
	14	5, 10		
	30	5, 10		

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Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_2A-2A-30A-66A	2	Refer to CA_2A-2A (BCS0)	70	0
	30	5, 10		
	66	5, 10, 15, 20		
CA_2A-30A-66A-66A	2	5, 10, 15, 20	70	0
	30	5, 10		
	66	Refer to CA_66A-6A (BCS0)		
CA_2A-30A-66A	2	5, 10, 15, 20	50	0
	30	5, 10		
	66	5, 10, 15, 20		
CA_5A-30A-66A	5	5, 10	40	0
	30	5, 10		
	66	5, 10, 15, 20		
CA_5A-30A-66A-66A	5	5, 10	60	0
	30	5, 10		
	66	Refer to CA_66A-66A (BCS0)		
CA_5B-30A-66A	5	Refer to CA_5B (BCS0)	50	0
	30	5, 10		
	66	5, 10, 15, 20		
CA_5B-30A-66A-66A	5	Refer to CA_5B (BCS0)	70	0
	30	5, 10		
	66	Refer to CA_66A-66A (BCS0)		
CA_12A-30A-66A	12	5, 10	40	0
	30	5, 10		
	66	5, 10, 15, 20		
CA_12A-30A-66A-66A	12	5, 10	60	0
	30	5, 10		
	66	Refer to CA_66A-66A (BCS0)		

LTE CA Configurations and Bandwidth Combination Sets defined for Inter-Band CA (For Bands)

Downlink CA Configuration	LTE Bands	Channel Bandwidths for Carrier (MHz)	Maximum Aggregated Bandwidth (MHz)	Bandwidth Combination Set
CA_2A-5A-30A-66A	2	5, 10, 15, 20	60	0
	5	5, 10		
	30	5, 10		
	66	5, 10, 15, 20		

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<SAR Test Exclusion Evaluations for LTE Downlink CA>

According to Nov 2017 TCB Workshop, SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. The downlink Carrier Aggregation configurations are tabulated in separate columns. DL CA would be listed in the columns corresponding to Intra Band contiguous, Intra Band Non-contiguous, 2bands/2CCs, 2bands/3CCs, 2bands/4CCs, 3bands/3CCs, 3bands/4CCs, 3bands/5CC, 4bands/4CCs and 4bands/5CC. The CA/CC combinations in each columns are sorted so that frequency bands listed in subsequent columns on each row are ascending subsets, as following LTE Downlink CA table and LTE Downlink CA (4*4 MIMO) table ; i.e., columns to the right correspond to increasing number of frequency bands and CCs.

	Intra Band		Inter Band							
	Contiguous	Non-Contiguous	2 Bands / 2CC	2 Bands / 3CC	2 Bands / 4CC	3 Bands / 3CC	3 Bands / 4CC	3 Bands / 5CC	4 Bands / 4CC	4 Bands / 5CC
	CA_5B	CA_2A-2A	CA_2A-5A	CA_2A-2A-5A		CA_2A-5A-30A	CA_2A-2A-5A-30A			
LTE Downlink CA-Configure				CA_2A-2A-5B		CA_2A-5A-66A	CA_2A-2A-5A-66A			
			CA_2A-30A	CA_2A-2A-30A			CA_2A-2A-30A-66A			
			CA_2A-66A	CA_2A-2A-66A	CA_2A-2A-66A-66A		CA_2A-5A-66A-66A	CA_2A-5B-66A-66A		
				CA_2A-66B	CA_2A-2A-66B		CA_2A-5A-66B	CA_2A-2A-5A-66B		
				CA_2A-66C	CA_2A-2A-66C		CA_2A-5A-66C	CA_2A-2A-5A-66C		
				CA_2A-5B			CA_2A-5B-30A			
				CA_2A-66A-66A			CA_2A-5B-66A	CA_2A-5B-66C		
	CA_66B	CA_66A-66A		CA_30A-66A-66A		CA_2A-30A-66A	CA_2A-30A-66A-66A			
	CA_66C	CA_66A-66B		CA_5A-66A-66A	CA_5B-66A-66A		CA_5A-30A-66A-66A			
	CA_66D	CA_66A-66C		CA_5A-66B	CA_5B-66C	CA_5A-30A-66A				
			CA_5A-30A	CA_5A-66C				CA_5B-30A-66A-66A		
			CA_5A-66A	CA_5B-30A						
			CA_30A-66A	CA_5B-66A						
			CA_2A-12A	CA_12A-66A-66A		CA_2A-12A-30A	CA_2A-2A-12A-30A			
			CA_12A-30A			CA_2A-12A-66A	CA_2A-2A-12A-66A		CA_2A-12A-30A-66A	
			CA_12A-66A			CA_12A-30A-66A	CA_2A-12A-66A-66A			
							CA_12A-30A-66A-66A			
			CA_2A-13A	CA_2A-2A-13A		CA_2A-13A-66A	CA_2A-2A-13A-66A			
			CA_13A-66A	CA_13A-66A-66A			CA_2A-13A-66A-66A			
				CA_13A-66B			CA_2A-13A-66B			
				CA_13A-66C			CA_2A-13A-66C			
		CA_4A-4A	CA_2A-4A	CA_2A-2A-4A						
			CA_4A-5A	CA_2A-4A-4A		CA_2A-4A-5A				
				CA_4A-4A-5A						
			CA_4A-13A			CA_2A-4A-13A				
			CA_2A-14A			CA_2A-14A-30A				
			CA_14A-30A							
			CA_14A-66A	CA_14A-66A-66A						
		CA_25A-25A								
	CA_41C									

4.2 EUT Testing Position

4.2.1 Body Exposure Conditions

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

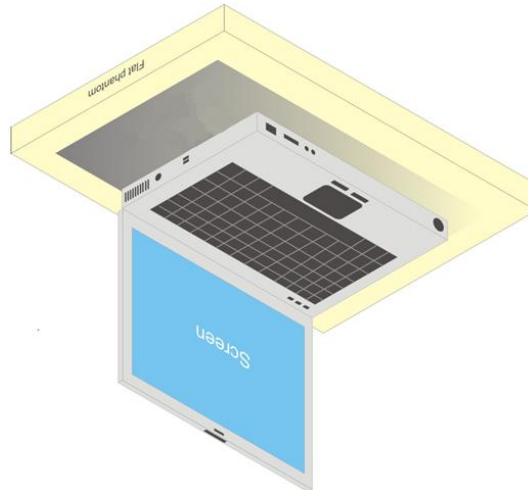


Fig-4.1 Illustration for Laptop Setup

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.

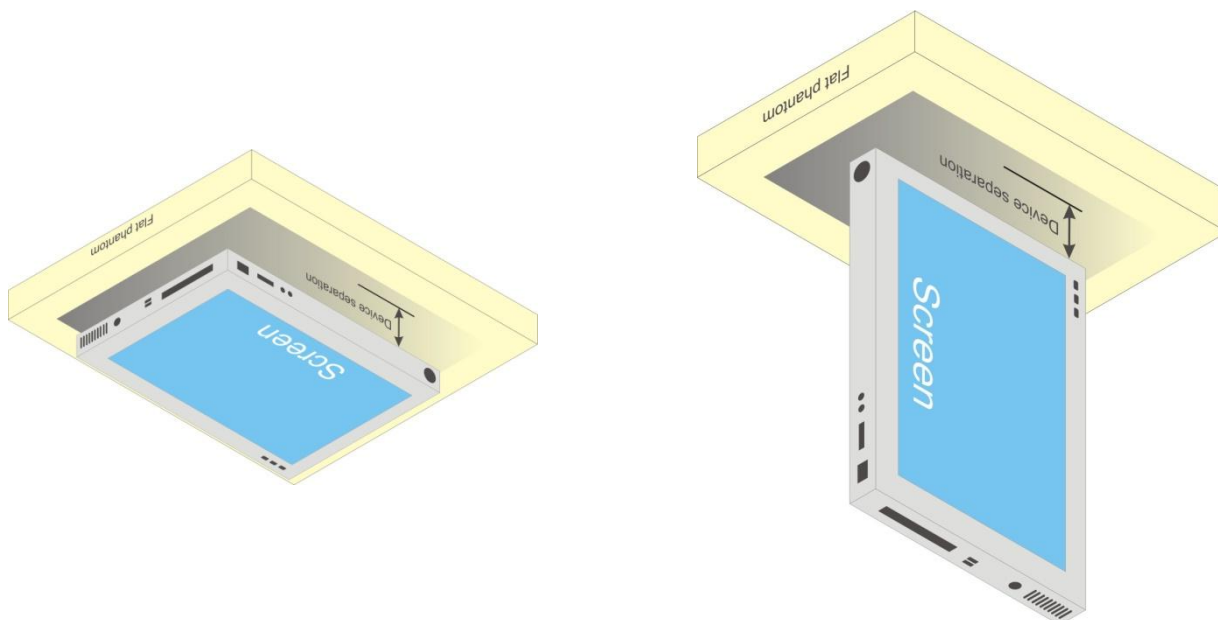
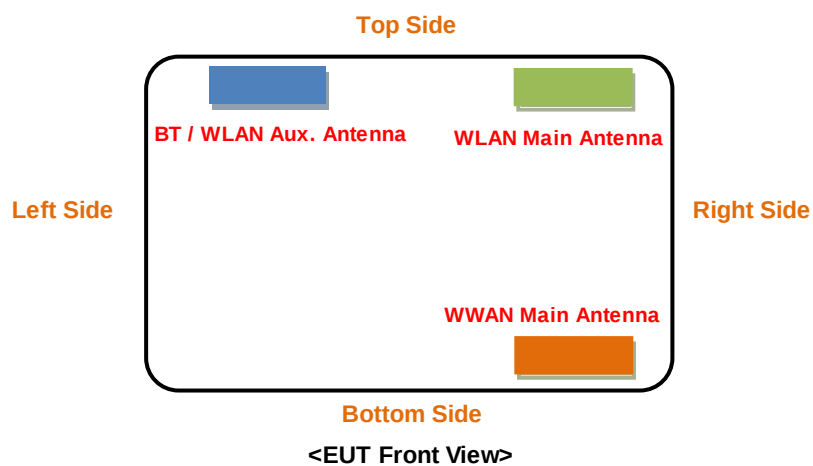


Fig-4.2 Illustration for Tablet Setup

<Antenna Location>

Tablet PC Mode

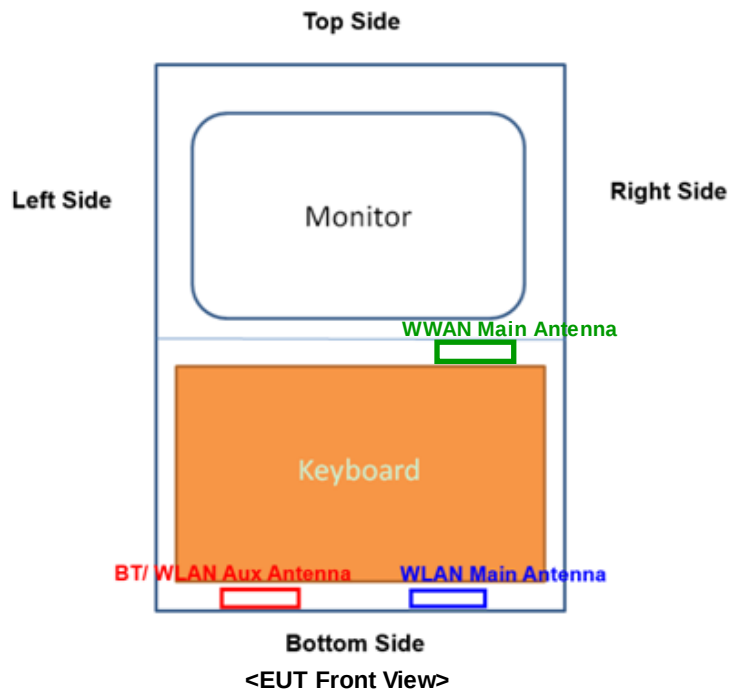


The separation distance for antenna to edge:

Antenna	To Top Side (mm)	To Bottom Side (mm)	To Left Side (mm)	To Right Side (mm)
WLAN Main	2.5	191	192	57
BT/WLAN Aux.	2.5	191	63	185
WWAN Main	192	3	194	56

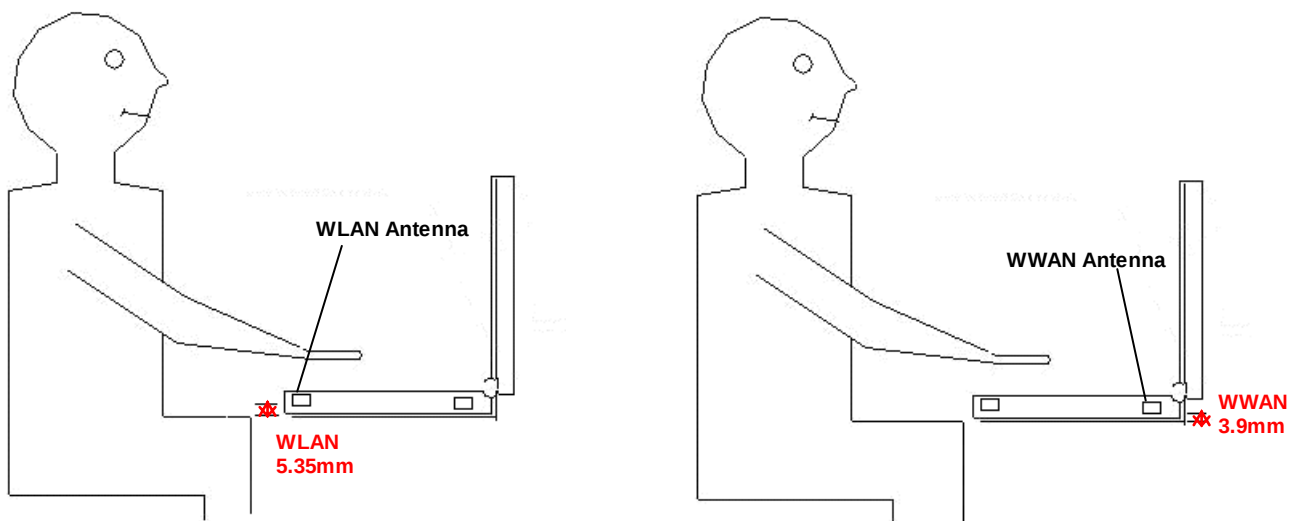
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Laptop PC Mode



The separation distance for antenna to edge:

Antenna	To Top Side (mm)	To Bottom Side (mm)	To Left Side (mm)	To Right Side (mm)
WLAN Main	191	2.5	192	57
BT / WLAN Aux	191	2.5	63	185
WWAN Main	3	192	194	56



<Right Side View>

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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.

- For the test separation distance ≤ 50 mm

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

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

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

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

- For the test separation distance > 50 mm, and the frequency at > 1500 MHz to 6 GHz

$$[(\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times 10]_{(mW)}$$

Tablet PC Mode

<For WWAN>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Top Side			Bottom Side			Left Side			Right Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WCDMA II	24.5	282	5	77.9	Yes	194	1549 mW	No	56	169 mW	No	192	1529 mW	No	3	77.9	Yes
WCDMA IV	24.5	282	5	74.67	Yes	194	1553 mW	No	56	173 mW	No	192	1533 mW	No	3	74.67	Yes
WCDMA V	24.5	282	5	51.89	Yes	194	976 mW	No	56	197 mW	No	192	964 mW	No	3	51.89	Yes
LTE 2	24.5	282	5	77.95	Yes	194	1549 mW	No	56	169 mW	No	192	1529 mW	No	3	77.95	Yes
LTE 4	24.5	282	5	74.72	Yes	194	1553 mW	No	56	173 mW	No	192	1533 mW	No	3	74.72	Yes
LTE 5	24.5	282	5	51.97	Yes	194	978 mW	No	56	197 mW	No	192	967 mW	No	3	51.97	Yes
LTE 7	24.5	282	5	90.42	Yes	194	1534 mW	No	56	154 mW	No	192	1514 mW	No	3	90.42	Yes
LTE 12	24.5	282	5	47.72	Yes	194	865 mW	No	56	206 mW	No	192	855 mW	No	3	47.72	Yes
LTE 13	24.5	282	5	50.03	Yes	194	925 mW	No	56	201 mW	No	192	914 mW	No	3	50.03	Yes
LTE 14	24.5	282	5	50.38	Yes	194	934 mW	No	56	200 mW	No	192	923 mW	No	3	50.38	Yes
LTE 17	24.5	282	5	47.72	Yes	194	865 mW	No	56	206 mW	No	192	855 mW	No	3	47.72	Yes
LTE 25	24.5	282	5	78.05	Yes	194	1548 mW	No	56	168 mW	No	192	1528 mW	No	3	78.05	Yes
LTE 26	24.5	282	5	51.97	Yes	194	978 mW	No	56	197 mW	No	192	967 mW	No	3	51.97	Yes
LTE 30	23	200	5	60.86	Yes	194	1539 mW	No	56	159 mW	No	192	1519 mW	No	3	60.86	Yes
LTE 38	24.5	282	5	91.29	Yes	194	1533 mW	No	56	153 mW	No	192	1513 mW	No	3	91.29	Yes
LTE 41	24.5	282	5	92.5	Yes	194	1531 mW	No	56	151 mW	No	192	1511 mW	No	3	92.5	Yes
LTE 66	24.5	282	5	75.25	Yes	194	1552 mW	No	56	172 mW	No	192	1532 mW	No	3	75.25	Yes

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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. (°C)	Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Target Conductivity (σ)	Target Permittivity (ϵ_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Jan. 17, 2019	Body	750	23.2	0.957	55.472	0.96	55.5	-0.31	-0.05
Jan. 17, 2019	Body	750	23.3	0.959	56.412	0.96	55.5	-0.10	1.64
Jan. 19, 2019	Body	750	23.1	0.958	56.428	0.96	55.5	-0.21	1.67
Jan. 21, 2019	Body	750	23.3	0.956	55.016	0.96	55.5	-0.42	-0.87
Jan. 23, 2019	Body	750	23.1	0.973	56.01	0.96	55.5	1.35	0.92
Jan. 17, 2019	Body	835	23.2	0.977	55.992	0.97	55.2	0.72	1.43
Jan. 18, 2019	Body	835	23.2	0.972	56.099	0.97	55.2	0.21	1.63
Jan. 18, 2019	Body	835	23.2	0.994	57.037	0.97	55.2	2.47	3.33
Jan. 19, 2019	Body	835	23.1	0.985	56.443	0.97	55.2	1.55	2.25
Jan. 17, 2019	Body	1750	23.2	1.434	52.018	1.49	53.4	-3.76	-2.59
Jan. 19, 2019	Body	1750	23.1	1.44	51.492	1.49	53.4	-3.36	-3.57
Jan. 21, 2019	Body	1750	23.3	1.455	51.101	1.49	53.4	-2.35	-4.31
Jan. 23, 2019	Body	1750	23.1	1.442	51.72	1.49	53.4	-3.22	-3.15
Jan. 17, 2019	Body	1900	23.2	1.584	51.599	1.52	53.3	4.21	-3.19
Jan. 18, 2019	Body	1900	23.2	1.555	51.48	1.52	53.3	2.30	-3.41
Jan. 19, 2019	Body	1900	23.1	1.578	51.137	1.52	53.3	3.82	-4.06
Jan. 23, 2019	Body	1900	23.1	1.56	51.445	1.52	53.3	2.63	-3.48
Jan. 19, 2019	Body	2300	23.1	1.86	51.064	1.81	52.9	2.76	-3.47
Jan. 21, 2019	Body	2300	23.2	1.815	52.915	1.81	52.9	0.28	0.03
Jan. 23, 2019	Body	2300	23.1	1.859	50.968	1.81	52.9	2.71	-3.65
Jan. 18, 2019	Body	2600	23.2	2.213	50.452	2.16	52.5	2.45	-3.90
Jan. 19, 2019	Body	2600	23.1	2.192	50.242	2.16	52.5	1.48	-4.30
Jan. 21, 2019	Body	2600	23.2	2.151	51.746	2.16	52.5	-0.42	-1.44
Jan. 23, 2019	Body	2600	23.1	2.193	50.164	2.16	52.5	1.53	-4.45
Feb. 23, 2019	Body	2600	23.4	2.199	51.168	2.16	52.5	1.81	-2.54

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 $\pm 2^\circ\text{C}$.

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4.4 System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.

Test Date	Probe S/N	Calibration Point		Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Validation for CW			Validation for Modulation		
						Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR
Jan. 17, 2019	3650	Body	750	0.957	55.472	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 17, 2019	3971	Body	750	0.959	56.412	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 19, 2019	3650	Body	750	0.959	56.428	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 21, 2019	3971	Body	750	0.956	55.016	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 23, 2019	3650	Body	750	0.973	56.01	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 17, 2019	3650	Body	835	0.977	55.992	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 18, 2019	3971	Body	835	0.972	56.099	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 18, 2019	3650	Body	835	0.994	57.037	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 19, 2019	3650	Body	835	0.985	56.443	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 17, 2019	3650	Body	1750	1.434	52.018	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 19, 2019	3650	Body	1750	1.44	51.492	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 21, 2019	3971	Body	1750	1.455	51.101	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 23, 2019	3650	Body	1750	1.442	51.72	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 17, 2019	3650	Body	1900	1.584	51.599	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 18, 2019	3650	Body	1900	1.555	51.48	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 19, 2019	3650	Body	1900	1.578	51.137	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 23, 2019	3650	Body	1900	1.56	51.445	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 19, 2019	3650	Body	2300	1.86	51.064	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 21, 2019	3971	Body	2300	1.815	52.915	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 23, 2019	3650	Body	2300	1.859	50.968	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 18, 2019	3650	Body	2600	2.213	50.452	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 19, 2019	3650	Body	2600	2.192	50.242	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 21, 2019	3971	Body	2600	2.151	51.746	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 23, 2019	3650	Body	2600	2.193	50.164	Pass	Pass	Pass	N/A	N/A	N/A
Feb. 23, 2019	3971	Body	2600	2.199	51.168	Pass	Pass	Pass	N/A	N/A	N/A

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4.5 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
Jan. 17, 2019	Body	750	8.62	2.11	8.44	-2.09	1013	3650	579
Jan. 17, 2019	Body	750	8.62	2.31	9.24	7.19	1013	3971	861
Jan. 19, 2019	Body	750	8.62	2.07	8.28	-3.94	1013	3650	579
Jan. 21, 2019	Body	750	8.62	2.08	8.32	-3.48	1013	3971	861
Jan. 23, 2019	Body	750	8.62	2.17	8.68	0.70	1013	3650	579
Jan. 17, 2019	Body	835	9.64	2.52	10.08	4.56	4d121	3650	579
Jan. 18, 2019	Body	835	9.64	2.47	9.88	2.49	4d121	3971	861
Jan. 18, 2019	Body	835	9.64	2.29	9.16	-4.98	4d121	3650	579
Jan. 19, 2019	Body	835	9.64	2.34	9.36	-2.90	4d121	3650	579
Jan. 17, 2019	Body	1750	36.90	8.82	35.28	-4.39	1055	3650	579
Jan. 19, 2019	Body	1750	36.90	8.78	35.12	-4.82	1055	3650	579
Jan. 21, 2019	Body	1750	36.90	9.56	38.24	3.63	1055	3971	861
Jan. 23, 2019	Body	1750	36.90	9.07	36.28	-1.68	1055	3650	579
Jan. 17, 2019	Body	1900	40.20	10.1	40.40	0.50	5d018	3650	579
Jan. 18, 2019	Body	1900	40.20	9.93	39.72	-1.19	5d018	3650	579
Jan. 19, 2019	Body	1900	40.20	9.83	39.32	-2.19	5d018	3650	579
Jan. 23, 2019	Body	1900	40.20	10.3	41.20	2.49	5d018	3650	579
Jan. 19, 2019	Body	2300	46.60	11.6	46.40	-0.43	1091	3650	579
Jan. 21, 2019	Body	2300	46.60	11	44.00	-5.58	1091	3971	861
Jan. 23, 2019	Body	2300	46.60	11.9	47.60	2.15	1091	3650	579
Jan. 18, 2019	Body	2600	55.30	13.8	55.20	-0.18	1020	3650	579
Jan. 19, 2019	Body	2600	55.30	13.3	53.20	-3.80	1020	3650	579
Jan. 21, 2019	Body	2600	55.30	13.9	55.60	0.54	1020	3971	861
Jan. 23, 2019	Body	2600	55.30	13.2	52.80	-4.52	1020	3650	579
Feb. 23, 2019	Body	2600	55.30	13.7	54.80	-0.90	1020	3971	861

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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4.6 Maximum Output Power

4.6.1 Maximum Target 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 & Laptop Mode)	Power Reduction (dB)
RMC 12.2K	24.5	19.0	5.5
HSDPA/ HSUPA/ DC-HSDPA	23.0	18.5	4.5

Mode	WCDMA Band IV (without Power Reduction)	WCDMA Band IV (with Power Reduction & Laptop Mode)	Power Reduction (dB)
RMC 12.2K	24.5	18.5	6.0
HSDPA/ HSUPA/ DC-HSDPA	23.0	18.0	5.0

Mode	WCDMA Band V (without Power Reduction)	WCDMA Band V (with Power Reduction & Laptop Mode)	Power Reduction (dB)
RMC 12.2K	24.5	19.5	5.0
HSDPA/ HSUPA/ DC-HSDPA	23.0	19.0	4.0

Mode	LTE 2 (without Power Reduction)	LTE 2 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	19.0	5.5

Mode	LTE 4 (without Power Reduction)	LTE 4 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	18.5	6.0

Mode	LTE 5 (without Power Reduction)	LTE 5 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	19.5	5.0

Mode	LTE 7 (without Power Reduction)	LTE 7 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	17.5	7.0

Mode	LTE 12 (without Power Reduction)	LTE 12 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	22.0	2.5

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Mode	LTE 13 (without Power Reduction)	LTE 13 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	19.5	5.0

Mode	LTE 14 (without Power Reduction)	LTE 14 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	19.5	5.0

Mode	LTE 17 (without Power Reduction)	LTE 17 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	23.0	1.5

Mode	LTE 25 (without Power Reduction)	LTE 25 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	20.0	4.5

Mode	LTE 26 (without Power Reduction)	LTE 26 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	19.5	5.0

Mode	LTE 30 (without Power Reduction)	LTE 30 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	23.0	17.0	6.0

Mode	LTE 38 (without Power Reduction)	LTE 38 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	21.5	3.0

Mode	LTE 41 (without Power Reduction)	LTE 41 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	17.0	7.5

Mode	LTE 66 (without Power Reduction)	LTE 66 (with Power Reduction & Laptop Mode)	Power Reduction (dB)
Maximum Target Power	24.5	19.5	5.0

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4.6.2 Measured Conducted Power Result

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

Band	WCDMA Band II			WCDMA Band IV			WCDMA Band V			3GPP MPR (dB)
Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233	
Frequency (MHz)	1852.4	1880.0	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6	
EUT without Power Reduction (P-Sensor NOT Triggered)										
RMC 12.2K	22.82	23.72	22.84	23.70	23.67	23.50	23.84	23.89	23.71	-
HSDPA Subtest-1	21.89	22.79	21.91	22.80	22.77	22.60	22.82	22.87	22.69	0
HSDPA Subtest-2	21.96	22.86	21.98	22.70	22.67	22.50	22.91	22.96	22.78	0
HSDPA Subtest-3	21.40	22.30	21.42	22.32	22.29	22.12	22.39	22.44	22.26	0.5
HSDPA Subtest-4	21.45	22.35	21.47	22.30	22.27	22.10	22.38	22.43	22.25	0.5
DC-HSDPA Subtest-1	21.86	22.76	21.88	22.78	22.75	22.58	22.78	22.83	22.65	0
DC-HSDPA Subtest-2	21.93	22.83	21.95	22.68	22.65	22.48	22.87	22.92	22.74	0
DC-HSDPA Subtest-3	21.37	22.27	21.39	22.30	22.27	22.10	22.35	22.40	22.22	0.5
DC-HSDPA Subtest-4	21.42	22.32	21.44	22.28	22.25	22.08	22.34	22.39	22.21	0.5
HSUPA Subtest-1	21.97	22.87	21.99	22.75	22.72	22.60	22.84	22.89	22.71	0
HSUPA Subtest-2	19.95	20.85	19.97	20.75	20.72	20.60	20.89	20.94	20.76	2
HSUPA Subtest-3	20.84	21.74	20.86	21.78	21.75	21.63	21.87	21.92	21.74	1
HSUPA Subtest-4	19.87	20.77	19.89	20.75	20.72	20.60	20.90	20.95	20.77	2
HSUPA Subtest-5	21.80	22.70	21.82	22.73	22.70	22.58	22.85	22.90	22.72	0
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)										
RMC 12.2K	18.94	18.98	18.88	18.42	18.47	18.45	19.34	19.45	19.33	-
HSDPA Subtest-1	18.28	18.32	18.22	17.66	17.71	17.69	18.78	18.89	18.77	0
HSDPA Subtest-2	18.31	18.35	18.25	17.68	17.73	17.71	18.80	18.91	18.79	0
HSDPA Subtest-3	17.87	17.91	17.81	17.18	17.23	17.21	18.33	18.44	18.32	0.5
HSDPA Subtest-4	17.28	17.32	17.22	17.16	17.21	17.19	18.26	18.37	18.25	0.5
DC-HSDPA Subtest-1	18.25	18.29	18.19	17.63	17.68	17.66	18.74	18.85	18.73	0
DC-HSDPA Subtest-2	18.28	18.32	18.22	17.65	17.70	17.68	18.76	18.87	18.75	0
DC-HSDPA Subtest-3	17.84	17.88	17.78	17.15	17.20	17.18	18.29	18.40	18.28	0.5
DC-HSDPA Subtest-4	17.25	17.29	17.19	17.13	17.18	17.16	18.22	18.33	18.21	0.5
HSUPA Subtest-1	18.31	18.35	18.25	17.69	17.74	17.72	18.83	18.94	18.82	0
HSUPA Subtest-2	16.28	16.32	16.22	15.69	15.74	15.72	16.82	16.93	16.81	2
HSUPA Subtest-3	17.30	17.34	17.24	16.67	16.72	16.70	17.82	17.93	17.81	1
HSUPA Subtest-4	16.29	16.33	16.23	15.65	15.70	15.68	16.84	16.95	16.83	2
HSUPA Subtest-5	18.36	18.40	18.30	17.65	17.70	17.68	18.79	18.90	18.78	0

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LTE Band 2															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100				Channel		18675	18900	19125	
		Frequency (MHz)		1860.0	1880.0	1900.0				Frequency (MHz)		1857.5	1880.0	1902.5	
20M	QPSK	1	0	23.60	23.66	23.99	0	15M	QPSK	1	0	23.55	23.56	23.98	0
		1	50	23.46	23.56	23.72	0			1	37	23.44	23.47	23.66	0
		1	99	23.37	23.37	23.59	0			1	74	23.35	23.34	23.51	0
		50	0	22.64	22.72	22.89	1			36	0	22.62	22.65	22.89	1
		50	25	22.63	22.61	22.78	1			36	19	22.61	22.60	22.70	1
		50	50	22.41	22.10	22.72	1			36	39	22.32	22.05	22.70	1
		100	0	22.51	22.64	22.81	1			75	0	22.48	22.57	22.77	1
		1	0	22.50	22.65	22.89	1		16QAM	1	0	22.50	22.58	22.98	1
	16QAM	1	50	22.40	22.48	22.65	1			1	37	22.32	22.54	22.56	1
		1	99	22.29	22.28	22.52	1			1	74	22.27	22.28	22.54	1
		50	0	21.64	21.67	21.82	2			36	0	21.53	21.56	21.79	2
		50	25	21.53	21.52	21.70	2			36	19	21.57	21.52	21.58	2
		50	50	21.31	21.06	21.72	2			36	39	21.33	20.91	21.65	2
		100	0	21.43	21.60	21.79	2			75	0	21.43	21.54	21.70	2
		1	0	21.55	21.62	21.94	2		64QAM	1	0	21.47	21.54	21.90	2
	64QAM	1	50	21.39	21.50	21.67	2			1	37	21.35	21.54	21.62	2
		1	99	21.35	21.31	21.57	2			1	74	21.26	21.33	21.40	2
		50	0	20.58	20.63	20.79	3			36	0	20.55	20.63	20.72	3
		50	25	20.53	20.56	20.75	3			36	19	20.60	20.42	20.68	3
		50	50	20.34	20.08	20.64	3			36	39	20.39	19.90	20.62	3
		100	0	20.43	20.61	20.75	3			75	0	20.47	20.55	20.71	3
10M	QPSK	1	0	23.59	23.54	23.84	0	5M	QPSK	1	0	23.48	23.51	23.74	0
		1	24	23.41	23.36	23.62	0			1	12	23.32	23.39	23.54	0
		1	49	23.17	23.28	23.53	0			1	24	23.20	23.32	23.48	0
		25	0	22.55	22.56	22.74	1			12	0	22.53	22.64	22.62	1
		25	12	22.58	22.39	22.60	1			12	6	22.41	22.52	22.57	1
		25	25	22.34	21.98	22.59	1			12	13	22.24	21.96	22.46	1
		50	0	22.34	22.49	22.72	1			25	0	22.38	22.57	22.67	1
		1	0	22.39	22.54	22.68	1		16QAM	1	0	22.43	22.51	22.94	1
	16QAM	1	24	22.32	22.42	22.56	1			1	12	22.24	22.53	22.56	1
		1	49	22.14	22.20	22.41	1			1	24	22.15	22.16	22.34	1
		25	0	21.50	21.62	21.67	2			12	0	21.54	21.49	21.57	2
		25	12	21.50	21.36	21.51	2			12	6	21.56	21.41	21.58	2
		25	25	21.13	20.92	21.57	2			12	13	21.26	20.94	21.53	2
		50	0	21.45	21.49	21.72	2			25	0	21.26	21.48	21.55	2
		1	0	21.38	21.58	21.84	2		64QAM	1	0	21.45	21.48	21.91	2
	64QAM	1	24	21.20	21.34	21.60	2			1	12	21.24	21.37	21.53	2
		1	49	21.25	21.09	21.30	2			1	24	21.20	21.21	21.47	2
		25	0	20.41	20.60	20.66	3			12	0	20.39	20.55	20.64	3
		25	12	20.48	20.36	20.65	3			12	6	20.50	20.42	20.63	3
		25	25	20.27	19.95	20.46	3			12	13	20.29	19.96	20.58	3
		50	0	20.29	20.37	20.73	3			25	0	20.25	20.51	20.76	3
3M	QPSK	1	0	23.37	23.63	23.81	0	1.4M	QPSK	1	0	23.45	23.59	23.85	0
		1	7	23.39	23.43	23.55	0			1	2	23.43	23.47	23.50	0
		1	14	23.34	23.27	23.47	0			1	5	23.19	23.17	23.44	0
		8	0	22.49	22.61	22.84	1			3	0	23.53	23.61	23.74	0
		8	3	22.44	22.54	22.71	1			3	1	23.47	23.58	23.67	0
		8	7	22.18	21.93	22.52	1			3	3	23.29	22.94	23.50	0
		15	0	22.36	22.52	22.67	1			6	0	22.35	22.60	22.58	1
		1	0	22.34	22.42	22.81	1		16QAM	1	0	22.43	22.51	22.93	1
	16QAM	1	7	22.15	22.32	22.53	1			1	2	22.43	22.43	22.49	1
		1	14	22.15	22.17	22.53	1			1	5	22.18	22.16	22.40	1
		8	0	21.50	21.51	21.80	2			3	0	22.43	22.59	22.68	1
		8	3	21.49	21.38	21.58	2			3	1	22.41	22.43	22.68	1
		8	7	21.11	20.93	21.55	2			3	3	22.26	21.85	22.50	1
		15	0	21.35	21.56	21.69	2			6	0	21.27	21.54	21.58	2
		1	0	21.45	21.39	21.88	2		64QAM	1	0	21.39	21.61	21.92	2
	64QAM	1	7	21.24	21.27	21.45	2			1	2	21.24	21.32	21.58	2
		1	14	21.14	21.13	21.45	2			1	5	21.04	21.18	21.47	2
		8	0	20.45	20.53	20.73	3			3	0	21.59	21.54	21.71	2
		8	3	20.53	20.47	20.66	3			3	1	21.45	21.42	21.64	2
		8	7	20.26	20.02	20.53	3			3	3	21.23	20.99	21.54	2
		15	0	20.40	20.53	20.73	3			6	0	20.32	20.46	20.59	3

FCC SAR Test Report

LTE Band 2															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100				Channel		18675	18900	19125	
		Frequency (MHz)		1860.0	1880.0	1900.0				Frequency (MHz)		1857.5	1880.0	1902.5	
20M	QPSK	1	0	18.55	18.73	18.95	0	15M	QPSK	1	0	18.51	18.72	18.89	0
		1	50	18.41	18.60	18.78	0			1	37	18.40	18.50	18.76	0
		1	99	18.31	18.41	18.66	0			1	74	18.27	18.32	18.61	0
		50	0	18.60	18.77	18.94	0			36	0	18.60	18.77	18.93	0
		50	25	18.59	18.70	18.88	0			36	19	18.49	18.61	18.82	0
		50	50	18.47	18.59	18.76	0			36	39	18.41	18.54	18.69	0
		100	0	18.59	18.70	18.86	0			75	0	18.56	18.62	18.83	0
		1	0	18.47	18.64	18.93	0		16QAM	1	0	18.42	18.57	18.81	0
	16QAM	1	50	18.36	18.57	18.68	0			1	37	18.33	18.55	18.66	0
		1	99	18.21	18.37	18.64	0			1	74	18.25	18.29	18.60	0
		50	0	18.51	18.74	18.84	0			36	0	18.59	18.61	18.91	0
		50	25	18.53	18.60	18.79	0			36	19	18.51	18.60	18.79	0
		50	50	18.41	18.53	18.76	0			36	39	18.32	18.48	18.58	0
		100	0	18.59	18.62	18.82	0			75	0	18.45	18.53	18.72	0
		1	0	18.47	18.70	18.87	0		64QAM	1	0	18.53	18.56	18.94	0
	64QAM	1	50	18.35	18.52	18.76	0			1	37	18.33	18.58	18.69	0
		1	99	18.23	18.34	18.65	0			1	74	18.12	18.26	18.56	0
		50	0	18.60	18.72	18.94	0			36	0	18.56	18.65	18.79	0
		50	25	18.59	18.63	18.88	0			36	19	18.41	18.67	18.77	0
		50	50	18.37	18.56	18.67	0			36	39	18.42	18.57	18.73	0
		100	0	18.52	18.61	18.84	0			75	0	18.47	18.63	18.75	0
		1	0	18.50	18.60	18.78	0		QPSK	1	0	18.48	18.56	18.72	0
10M	QPSK	1	24	18.28	18.41	18.73	0			1	12	18.36	18.51	18.53	0
		1	49	18.29	18.27	18.56	0			1	24	18.12	18.18	18.43	0
		25	0	18.41	18.59	18.74	0			12	0	18.51	18.59	18.76	0
		25	12	18.49	18.51	18.81	0			12	6	18.41	18.65	18.61	0
		25	25	18.26	18.44	18.70	0			12	13	18.31	18.47	18.71	0
		50	0	18.47	18.56	18.71	0			25	0	18.39	18.51	18.82	0
	16QAM	1	0	18.43	18.56	18.85	0		16QAM	1	0	18.31	18.57	18.73	0
		1	24	18.30	18.44	18.64	0			1	12	18.14	18.35	18.49	0
		1	49	18.19	18.31	18.46	0			1	24	18.22	18.30	18.49	0
		25	0	18.42	18.64	18.86	0			12	0	18.34	18.68	18.75	0
		25	12	18.44	18.51	18.69	0			12	6	18.49	18.58	18.76	0
		25	25	18.28	18.49	18.54	0			12	13	18.27	18.38	18.45	0
		50	0	18.43	18.49	18.59	0			25	0	18.47	18.50	18.57	0
		1	0	18.25	18.49	18.83	0		64QAM	1	0	18.34	18.65	18.68	0
	64QAM	1	24	18.20	18.50	18.65	0			1	12	18.29	18.37	18.57	0
		1	49	18.22	18.17	18.40	0			1	24	18.12	18.20	18.56	0
		25	0	18.39	18.54	18.74	0			12	0	18.48	18.54	18.84	0
		25	12	18.32	18.52	18.71	0			12	6	18.41	18.61	18.73	0
		25	25	18.17	18.53	18.55	0			12	13	18.33	18.44	18.68	0
		50	0	18.36	18.50	18.60	0			25	0	18.46	18.57	18.71	0
		1	0	18.40	18.64	18.87	0	3M	QPSK	1	0	18.46	18.63	18.82	0
3M	QPSK	1	7	18.23	18.43	18.73	0			1	2	18.34	18.52	18.71	0
		1	14	18.21	18.33	18.55	0			1	5	18.18	18.29	18.61	0
		8	0	18.53	18.68	18.84	0			3	0	18.55	18.67	18.82	0
		8	3	18.48	18.59	18.72	0			3	1	18.42	18.48	18.74	0
		8	7	18.28	18.40	18.59	0			3	3	18.28	18.45	18.63	0
		15	0	18.56	18.62	18.69	0			6	0	18.48	18.62	18.62	0
	16QAM	1	0	18.38	18.58	18.86	0		16QAM	1	0	18.47	18.61	18.65	0
		1	7	18.34	18.34	18.56	0			1	2	18.09	18.37	18.59	0
		1	14	18.04	18.27	18.37	0			1	5	18.22	18.15	18.38	0
		8	0	18.40	18.62	18.74	0			3	0	18.40	18.68	18.71	0
		8	3	18.41	18.57	18.74	0			3	1	18.50	18.60	18.75	0
		8	7	18.36	18.43	18.57	0			3	3	18.26	18.54	18.58	0
		15	0	18.47	18.52	18.66	0			6	0	18.45	18.52	18.66	0
		1	0	18.24	18.49	18.72	0		64QAM	1	0	18.53	18.57	18.80	0
	64QAM	1	7	18.25	18.51	18.77	0			1	2	18.27	18.41	18.56	0
		1	14	18.16	18.18	18.52	0			1	5	18.11	18.18	18.52	0
		8	0	18.41	18.56	18.70	0			3	0	18.43	18.54	18.79	0
		8	3	18.39	18.53	18.73	0			3	1	18.43	18.48	18.73	0
		8	7	18.17	18.52	18.62	0			3	3	18.21	18.32	18.59	0
		15	0	18.39	18.52	18.71	0			6	0	18.39	18.43	18.63	0

FCC SAR Test Report

LTE Band 4															
EUT without Power Reduction (P-Sensor NOT Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300				Channel		20025	20175	20325	
		Frequency (MHz)		1720.0	1732.5	1745.0				Frequency (MHz)		1717.5	1732.5	1747.5	
20M	QPSK	1	0	23.72	23.78	23.76	0	15M	QPSK	1	0	23.67	23.68	23.66	0
		1	50	23.55	23.58	23.46	0			1	37	23.45	23.51	23.43	0
		1	99	23.55	23.52	23.34	0			1	74	23.51	23.46	23.28	0
		50	0	22.72	22.79	22.72	1			36	0	22.67	22.75	22.68	1
		50	25	22.62	22.68	22.63	1			36	19	22.62	22.68	22.55	1
		50	50	22.63	22.61	22.44	1			36	39	22.60	22.54	22.35	1
		100	0	22.61	22.66	22.63	1			75	0	22.59	22.62	22.60	1
		1	0	22.65	22.71	22.73	1		16QAM	1	0	22.53	22.78	22.62	1
	16QAM	1	50	22.45	22.49	22.40	1			1	37	22.43	22.50	22.42	1
		1	99	22.55	22.48	22.24	1			1	74	22.50	22.38	22.26	1
		50	0	21.68	21.71	21.63	2			36	0	21.58	21.64	21.62	2
		50	25	21.58	21.64	21.58	2			36	19	21.55	21.60	21.52	2
		50	50	21.54	21.61	21.35	2			36	39	21.49	21.48	21.35	2
		100	0	21.54	21.58	21.55	2			75	0	21.49	21.53	21.51	2
		1	0	21.69	21.71	21.66	2		64QAM	1	0	21.59	21.72	21.69	2
	64QAM	1	50	21.47	21.50	21.46	2			1	37	21.45	21.51	21.36	2
		1	99	21.55	21.42	21.29	2			1	74	21.44	21.43	21.31	2
		50	0	20.67	20.76	20.71	3			36	0	20.72	20.68	20.60	3
		50	25	20.54	20.65	20.59	3			36	19	20.49	20.59	20.59	3
		50	50	20.61	20.58	20.36	3			36	39	20.57	20.55	20.33	3
		100	0	20.56	20.66	20.55	3			75	0	20.56	20.65	20.51	3
10M	QPSK	1	0	23.61	23.70	23.73	0	5M	QPSK	1	0	23.55	23.63	23.49	0
		1	24	23.38	23.39	23.35	0			1	12	23.47	23.48	23.23	0
		1	49	23.40	23.49	23.19	0			1	24	23.33	23.45	23.15	0
		25	0	22.51	22.68	22.60	1			12	0	22.59	22.67	22.54	1
		25	12	22.42	22.55	22.50	1			12	6	22.59	22.53	22.42	1
		25	25	22.43	22.54	22.30	1			12	13	22.49	22.36	22.32	1
		50	0	22.46	22.59	22.44	1			25	0	22.53	22.46	22.38	1
		1	0	22.61	22.53	22.65	1		16QAM	1	0	22.63	22.62	22.57	1
	16QAM	1	24	22.49	22.33	22.34	1			1	12	22.33	22.40	22.30	1
		1	49	22.42	22.34	22.18	1			1	24	22.36	22.36	22.13	1
		25	0	21.52	21.65	21.59	2			12	0	21.62	21.65	21.53	2
		25	12	21.52	21.49	21.44	2			12	6	21.48	21.49	21.46	2
		25	25	21.45	21.33	21.26	2			12	13	21.50	21.43	21.23	2
		50	0	21.49	21.43	21.45	2			25	0	21.34	21.56	21.49	2
		1	0	21.51	21.56	21.52	2		64QAM	1	0	21.61	21.58	21.52	2
	64QAM	1	24	21.31	21.44	21.30	2			1	12	21.34	21.38	21.26	2
		1	49	21.31	21.49	21.16	2			1	24	21.38	21.30	21.04	2
		25	0	20.47	20.58	20.54	3			12	0	20.59	20.66	20.48	3
		25	12	20.38	20.51	20.36	3			12	6	20.43	20.58	20.39	3
		25	25	20.46	20.37	20.25	3			12	13	20.38	20.49	20.22	3
		50	0	20.38	20.45	20.52	3			25	0	20.37	20.47	20.50	3
3M	QPSK	1	0	23.56	23.63	23.61	0	1.4M	QPSK	1	0	23.54	23.62	23.68	0
		1	7	23.38	23.54	23.33	0			1	2	23.46	23.41	23.39	0
		1	14	23.47	23.38	23.23	0			1	5	23.43	23.42	23.29	0
		8	0	22.63	22.64	22.63	1			3	0	23.63	23.67	23.62	0
		8	3	22.46	22.59	22.43	1			3	1	23.52	23.61	23.52	0
		8	7	22.45	22.50	22.31	1			3	3	23.57	23.46	23.44	0
		15	0	22.47	22.47	22.45	1			6	0	22.58	22.51	22.51	1
		1	0	22.64	22.60	22.62	1		16QAM	1	0	22.42	22.63	22.46	1
	16QAM	1	7	22.35	22.44	22.37	1			1	2	22.39	22.30	22.27	1
		1	14	22.38	22.32	22.29	1			1	5	22.51	22.45	22.05	1
		8	0	21.47	21.56	21.48	2			3	0	22.50	22.73	22.66	1
		8	3	21.55	21.48	21.57	2			3	1	22.50	22.51	22.45	1
		8	7	21.34	21.54	21.27	2			3	3	22.48	22.47	22.41	1
		15	0	21.56	21.34	21.38	2			6	0	21.54	21.49	21.46	2
		1	0	21.42	21.64	21.69	2		64QAM	1	0	21.49	21.72	21.55	2
	64QAM	1	7	21.35	21.44	21.38	2			1	2	21.35	21.52	21.26	2
		1	14	21.30	21.30	21.19	2			1	5	21.45	21.34	21.21	2
		8	0	20.44	20.55	20.57	3			3	0	21.45	21.64	21.63	2
		8	3	20.44	20.50	20.47	3			3	1	21.39	21.43	21.51	2
		8	7	20.54	20.46	20.31	3			3	3	21.47	21.46	21.28	2
		15	0	20.50	20.58	20.48	3			6	0	20.40	20.43	20.50	3

FCC SAR Test Report

LTE Band 4																	
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
		Channel		20050	20175	20300				Channel		20025	20175	20325			
		Frequency (MHz)		1720.0	1732.5	1745.0				Frequency (MHz)		1717.5	1732.5	1747.5			
20M	QPSK	1	0	18.43	18.48	18.45	0	15M	QPSK	1	0	18.39	18.40	18.41	0		
		1	50	18.26	18.29	18.17	0			1	37	18.26	18.20	18.12	0		
		1	99	18.28	18.21	18.08	0			1	74	18.25	18.15	18.08	0		
		50	0	18.43	18.45	18.44	0			36	0	18.36	18.36	18.37	0		
		50	25	18.34	18.41	18.34	0			36	19	18.25	18.38	18.25	0		
		50	50	18.38	18.34	18.16	0			36	39	18.28	18.25	18.11	0		
		100	0	18.35	18.41	18.38	0			75	0	18.25	18.33	18.32	0		
		1	0	18.35	18.40	18.45	0			1	0	18.24	18.45	18.26	0		
	1	50	18.20	18.28	18.09	0	1		37	18.09	18.28	18.14	0				
	1	99	18.28	18.17	18.07	0	1		74	18.09	18.04	18.02	0				
	50	0	18.39	18.37	18.35	0	36		0	18.34	18.32	18.38	0				
	50	25	18.29	18.33	18.26	0	36		19	18.22	18.29	18.32	0				
	50	50	18.28	18.32	18.08	0	36		39	18.29	18.29	18.07	0				
	100	0	18.30	18.41	18.32	0	75		0	18.21	18.30	18.32	0				
	64QAM	1	0	18.40	18.38	18.35	0		64QAM	1	0	18.31	18.40	18.35	0		
		1	50	18.17	18.24	18.08	0			1	37	18.16	18.20	18.08	0		
		1	99	18.27	18.12	18.01	0			1	74	18.23	18.13	17.97	0		
		50	0	18.41	18.35	18.35	0			36	0	18.33	18.29	18.29	0		
		50	25	18.29	18.34	18.26	0			36	19	18.26	18.32	18.30	0		
		50	50	18.37	18.28	18.15	0			36	39	18.18	18.26	18.15	0		
		100	0	18.32	18.33	18.35	0			75	0	18.24	18.34	18.24	0		
		10M	QPSK	1	0	18.35	18.29			18.33	0	5M	QPSK	1	0	18.32	18.29
	1			24	18.12	18.24	18.10		0	1	12			18.15	18.24	18.00	0
	1			49	18.06	18.01	17.88		0	1	24			18.07	18.05	17.84	0
25	0			18.34	18.36	18.23	0	12	0	18.31	18.29			18.38	0		
25	12			18.16	18.33	18.17	0	12	6	18.23	18.24			18.18	0		
25	25			18.26	18.22	17.95	0	12	13	18.22	18.15			17.86	0		
50	0			18.20	18.21	18.23	0	25	0	18.21	18.27			18.23	0		
1	0			18.36	18.31	18.27	0	1	0	18.20	18.40			18.18	0		
1	24		18.01	18.25	18.06	0	1	12	18.08	18.13	18.00		0				
1	49		18.13	18.00	18.04	0	1	24	18.10	18.09	17.96		0				
25	0		18.23	18.33	18.29	0	12	0	18.25	18.34	18.17		0				
25	12		18.25	18.33	18.15	0	12	6	18.12	18.17	18.17		0				
25	25		18.16	18.20	18.04	0	12	13	18.18	18.10	17.97		0				
50	0		18.15	18.11	18.23	0	25	0	18.05	18.25	18.27		0				
64QAM	1		0	18.27	18.25	18.38	0	64QAM	1	0	18.32		18.39	18.37	0		
	1		24	18.15	18.12	18.06	0		1	12	18.09		18.17	17.96	0		
	1		49	18.13	18.05	17.84	0		1	24	18.15		18.08	17.86	0		
	25		0	18.37	18.29	18.24	0		12	0	18.21		18.20	18.27	0		
	25		12	18.22	18.26	18.19	0		12	6	18.22		18.20	18.20	0		
	25		25	18.20	18.16	18.10	0		12	13	18.26		18.16	17.90	0		
	50		0	18.10	18.17	18.12	0		25	0	18.17		18.24	18.18	0		
	3M		QPSK	1	0	18.34	18.39		18.35	0	1.4M		QPSK	1	0	18.31	18.34
1				7	18.13	18.17	17.94	0	1	2				18.12	18.27	18.04	0
1				14	18.15	18.01	17.84	0	1	5				18.20	18.13	17.89	0
8		0		18.26	18.29	18.34	0	3	0	18.28		18.26		18.25	0		
8		3		18.13	18.19	18.14	0	3	1	18.25		18.22		18.21	0		
8		7		18.22	18.24	18.01	0	3	3	18.35		18.22		17.92	0		
15		0		18.26	18.21	18.23	0	6	0	18.30		18.29		18.15	0		
1		0		18.24	18.35	18.21	0	1	0	18.15		18.43		18.28	0		
1		7	18.18	18.04	18.00	0	1	2	18.17	18.12		18.07	0				
1		14	18.14	18.09	17.97	0	1	5	18.12	18.13		17.97	0				
8		0	18.21	18.31	18.35	0	3	0	18.29	18.38		18.25	0				
8		3	18.31	18.23	18.21	0	3	1	18.21	18.30		18.11	0				
8		7	18.18	18.21	18.08	0	3	3	18.16	18.15		17.86	0				
15		0	18.11	18.27	18.19	0	6	0	18.25	18.23		18.16	0				
64QAM		1	0	18.33	18.26	18.35	0	64QAM	1	0		18.37	18.24	18.31	0		
		1	7	18.02	18.17	17.98	0		1	2		18.05	18.12	18.07	0		
		1	14	18.23	18.02	17.92	0		1	5		18.08	18.09	17.86	0		
		8	0	18.28	18.21	18.18	0		3	0		18.23	18.27	18.21	0		
		8	3	18.24	18.26	18.19	0		3	1		18.14	18.18	18.10	0		
		8	7	18.12	18.18	17.85	0		3	3		18.19	18.18	17.97	0		
		15	0	18.20	18.22	18.29	0		6	0		18.14	18.32	18.21	0		

FCC SAR Test Report

LTE Band 5															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20450	20525	20600				Channel		20425	20525	20625	
		Frequency (MHz)		829.0	836.5	844.0				Frequency (MHz)		826.5	836.5	846.5	
10M	QPSK	1	0	23.69	23.69	23.77	0	5M	QPSK	1	0	23.66	23.64	23.70	0
		1	24	23.68	23.68	23.67	0			1	12	23.61	23.59	23.57	0
		1	49	23.67	23.64	23.64	0			1	24	23.64	23.57	23.61	0
		25	0	22.77	22.75	22.80	1			12	0	22.75	22.69	22.75	1
		25	12	22.76	22.70	22.76	1			12	6	22.72	22.60	22.70	1
		25	25	22.75	22.62	22.67	1			12	13	22.75	22.58	22.64	1
		50	0	22.72	22.71	22.75	1			25	0	22.68	22.62	22.67	1
		1	0	22.62	22.65	22.77	1		16QAM	1	0	22.51	22.58	22.65	1
	16QAM	1	24	22.64	22.64	22.65	1			1	12	22.58	22.61	22.58	1
		1	49	22.64	22.58	22.61	1			1	24	22.48	22.56	22.49	1
		25	0	21.71	21.75	21.70	2			12	0	21.73	21.70	21.70	2
		25	12	21.67	21.61	21.68	2			12	6	21.66	21.68	21.64	2
		25	25	21.70	21.53	21.58	2			12	13	21.61	21.53	21.54	2
		50	0	21.68	21.66	21.67	2			25	0	21.66	21.63	21.71	2
	64QAM	1	0	21.61	21.62	21.68	2		64QAM	1	0	21.61	21.53	21.73	2
		1	24	21.66	21.62	21.64	2			1	12	21.62	21.59	21.61	2
		1	49	21.66	21.54	21.64	2			1	24	21.59	21.57	21.48	2
		25	0	20.68	20.73	20.78	3			12	0	20.64	20.66	20.70	3
		25	12	20.70	20.64	20.73	3			12	6	20.63	20.62	20.68	3
		25	25	20.68	20.60	20.65	3			12	13	20.58	20.46	20.54	3
		50	0	20.71	20.62	20.66	3			25	0	20.60	20.55	20.67	3
		1	0	20.71	20.62	20.66	3			25	0	20.60	20.55	20.67	3
3M	QPSK	1	0	23.58	23.53	23.70	0	1.4M	QPSK	1	0	23.48	23.63	23.58	0
		1	7	23.59	23.55	23.63	0			1	2	23.46	23.57	23.55	0
		1	14	23.55	23.60	23.44	0			1	5	23.53	23.52	23.43	0
		8	0	22.65	22.52	22.71	1			3	0	23.60	23.67	23.67	0
		8	3	22.73	22.57	22.67	1			3	1	23.72	23.57	23.69	0
		8	7	22.58	22.58	22.52	1			3	3	23.59	23.59	23.46	0
		15	0	22.62	22.56	22.60	1			6	0	22.58	22.52	22.70	1
		1	0	22.50	22.50	22.61	1		16QAM	1	0	22.46	22.39	22.62	1
	16QAM	1	7	22.36	22.42	22.45	1			1	2	22.57	22.59	22.52	1
		1	14	22.46	22.40	22.53	1			1	5	22.39	22.48	22.56	1
		8	0	21.51	21.61	21.56	2			3	0	22.50	22.53	22.74	1
		8	3	21.59	21.50	21.53	2			3	1	22.65	22.46	22.57	1
		8	7	21.58	21.40	21.47	2			3	3	22.53	22.50	22.48	1
		15	0	21.47	21.48	21.59	2			6	0	21.64	21.51	21.64	2
	64QAM	1	0	21.47	21.43	21.56	2		64QAM	1	0	21.48	21.47	21.58	2
		1	7	21.54	21.55	21.57	2			1	2	21.51	21.58	21.46	2
		1	14	21.51	21.47	21.39	2			1	5	21.47	21.50	21.43	2
		8	0	20.63	20.54	20.72	3			3	0	21.71	21.55	21.59	2
		8	3	20.46	20.42	20.60	3			3	1	21.71	21.55	21.69	2
		8	7	20.53	20.44	20.50	3			3	3	21.66	21.46	21.48	2
		15	0	20.54	20.56	20.69	3			6	0	20.46	20.51	20.54	3
		15	0	20.54	20.56	20.69	3			6	0	20.46	20.51	20.54	3

FCC SAR Test Report

LTE Band 5																	
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
		Channel		20450	20525	20600				Channel		20425	20525	20625			
		Frequency (MHz)		829.0	836.5	844.0				Frequency (MHz)		826.5	836.5	846.5			
10M	QPSK	1	0	19.37	19.36	19.49	0	5M	QPSK	1	0	19.29	19.26	19.42	0		
		1	24	19.36	19.34	19.37	0			1	12	19.32	19.33	19.36	0		
		1	49	19.36	19.33	19.30	0			1	24	19.35	19.27	19.21	0		
		25	0	19.45	19.45	19.47	0			12	0	19.44	19.42	19.39	0		
		25	12	19.43	19.45	19.43	0			12	6	19.43	19.45	19.40	0		
		25	25	19.44	19.36	19.35	0			12	13	19.43	19.26	19.32	0		
		50	0	19.41	19.41	19.42	0			25	0	19.38	19.40	19.36	0		
	16QAM	1	0	19.26	19.33	19.40	0		16QAM	1	0	19.25	19.23	19.41	0		
		1	24	19.29	19.24	19.32	0			1	12	19.34	19.22	19.32	0		
		1	49	19.31	19.25	19.29	0			1	24	19.31	19.23	19.22	0		
		25	0	19.44	19.40	19.37	0			12	0	19.31	19.34	19.32	0		
		25	12	19.39	19.35	19.39	0			12	6	19.35	19.38	19.30	0		
		25	25	19.40	19.36	19.26	0			12	13	19.30	19.24	19.28	0		
	64QAM	50	0	19.35	19.41	19.32	0		25	0	19.36	19.38	19.29	0			
		1	0	19.34	19.32	19.42	0		64QAM	1	0	19.23	19.22	19.42	0		
		1	24	19.36	19.27	19.36	0			1	12	19.27	19.30	19.24	0		
		1	49	19.30	19.29	19.26	0			1	24	19.33	19.22	19.11	0		
		25	0	19.37	19.45	19.45	0			12	0	19.44	19.43	19.38	0		
		25	12	19.34	19.35	19.36	0			12	6	19.25	19.34	19.36	0		
		25	25	19.36	19.35	19.32	0			12	13	19.24	19.27	19.23	0		
	50	0	19.37	19.36	19.36	0	25			0	19.31	19.30	19.26	0			
	BW	MCS Index	RB Size	RB Offset	Low	Mid	High		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
			Channel		20415	20525	20635					Channel		20407	20525	20643	
			Frequency (MHz)		824.5	836.5	847.5					Frequency (MHz)		824.7	836.5	848.3	
3M	QPSK	1	0	19.29	19.19	19.39	0	1.4M	QPSK	1	0	19.30	19.11	19.38	0		
		1	7	19.17	19.28	19.21	0			1	2	19.28	19.23	19.24	0		
		1	14	19.18	19.18	19.26	0			1	5	19.22	19.25	19.16	0		
		8	0	19.38	19.32	19.41	0			3	0	19.42	19.37	19.21	0		
		8	3	19.34	19.42	19.26	0			3	1	19.20	19.31	19.14	0		
		8	7	19.23	19.26	19.26	0			3	3	19.29	19.16	19.05	0		
		15	0	19.30	19.22	19.28	0			6	0	19.25	19.33	19.26	0		
	16QAM	1	0	19.28	19.13	19.20	0		16QAM	1	0	19.29	19.16	19.42	0		
		1	7	19.15	19.08	19.05	0			1	2	19.14	19.14	19.14	0		
		1	14	19.20	19.18	19.21	0			1	5	19.12	19.10	19.24	0		
		8	0	19.23	19.27	19.33	0			3	0	19.34	19.28	19.24	0		
		8	3	19.26	19.41	19.24	0			3	1	19.26	19.33	19.19	0		
		8	7	19.30	19.15	19.28	0			3	3	19.40	19.13	19.26	0		
	64QAM	15	0	19.20	19.23	19.15	0		6	0	19.24	19.21	19.14	0			
		1	0	19.03	19.17	19.30	0		64QAM	1	0	19.14	19.24	19.18	0		
		1	7	19.25	19.18	19.30	0			1	2	19.33	19.20	19.25	0		
		1	14	19.13	19.20	19.09	0			1	5	19.16	19.26	19.17	0		
		8	0	19.26	19.28	19.35	0			3	0	19.22	19.23	19.21	0		
		8	3	19.28	19.17	19.25	0			3	1	19.23	19.25	19.41	0		
		8	7	19.29	19.18	19.14	0			3	3	19.36	19.11	19.16	0		
	15	0	19.23	19.17	19.25	0	6			0	19.36	19.30	19.19	0			

FCC SAR Test Report

LTE Band 7															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350				Channel		20825	21100	21375	
		Frequency (MHz)		2510.0	2535.0	2560.0				Frequency (MHz)		2507.5	2535.0	2562.5	
20M	QPSK	1	0	23.81	23.67	23.59	0	15M	QPSK	1	0	23.78	23.61	23.50	0
		1	50	23.65	23.54	23.39	0			1	37	23.65	23.50	23.30	0
		1	99	23.67	23.47	23.36	0			1	74	23.64	23.39	23.36	0
		50	0	22.73	22.62	22.49	1			36	0	22.63	22.58	22.46	1
		50	25	22.71	22.60	22.46	1			36	19	22.66	22.57	22.36	1
		50	50	22.74	22.63	22.50	1			36	39	22.70	22.52	22.39	1
		100	0	22.79	22.47	22.47	1			75	0	22.75	22.43	22.45	1
		1	0	22.77	22.58	22.50	1		16QAM	1	0	22.71	22.55	22.53	1
	16QAM	1	50	22.57	22.47	22.39	1			1	37	22.53	22.49	22.25	1
		1	99	22.59	22.40	22.29	1			1	74	22.49	22.36	22.21	1
		50	0	21.69	21.54	21.39	2			36	0	21.65	21.51	21.35	2
		50	25	21.65	21.51	21.43	2			36	19	21.53	21.51	21.38	2
		50	50	21.71	21.47	21.30	2			36	39	21.64	21.48	21.23	2
		100	0	21.72	21.37	21.45	2			75	0	21.74	21.41	21.42	2
	64QAM	1	0	21.75	21.61	21.49	2		64QAM	1	0	21.77	21.60	21.53	2
		1	50	21.61	21.45	21.37	2			1	37	21.62	21.40	21.26	2
		1	99	21.64	21.38	21.34	2			1	74	21.53	21.47	21.28	2
		50	0	20.66	20.52	20.47	3			36	0	20.66	20.57	20.34	3
		50	25	20.71	20.56	20.43	3			36	19	20.57	20.48	20.43	3
		50	50	20.73	20.55	20.39	3			36	39	20.59	20.40	20.25	3
		100	0	20.78	20.46	20.44	3			75	0	20.65	20.29	20.30	3
		1	0	20.78	20.46	20.44	3			75	0	20.65	20.29	20.30	3
10M	QPSK	1	0	23.61	23.48	23.53	0	5M	QPSK	1	0	23.67	23.56	23.31	0
		1	24	23.52	23.42	23.32	0			1	12	23.54	23.49	23.24	0
		1	49	23.67	23.34	23.25	0			1	24	23.55	23.28	23.21	0
		25	0	22.64	22.58	22.37	1			12	0	22.56	22.53	22.28	1
		25	12	22.57	22.49	22.31	1			12	6	22.54	22.49	22.31	1
		25	25	22.55	22.43	22.36	1			12	13	22.68	22.37	22.33	1
		50	0	22.65	22.32	22.33	1			25	0	22.65	22.31	22.33	1
		1	0	22.72	22.65	22.50	1		16QAM	1	0	22.59	22.46	22.35	1
	16QAM	1	24	22.40	22.46	22.18	1			1	12	22.50	22.47	22.29	1
		1	49	22.43	22.20	22.16	1			1	24	22.42	22.31	22.02	1
		25	0	21.54	21.48	21.26	2			12	0	21.44	21.51	21.21	2
		25	12	21.63	21.42	21.31	2			12	6	21.54	21.47	21.29	2
		25	25	21.63	21.36	21.19	2			12	13	21.50	21.30	21.28	2
		50	0	21.63	21.28	21.32	2			25	0	21.71	21.25	21.30	2
	64QAM	1	0	21.73	21.41	21.42	2		64QAM	1	0	21.57	21.62	21.43	2
		1	24	21.58	21.47	21.16	2			1	12	21.48	21.41	21.37	2
		1	49	21.53	21.27	21.09	2			1	24	21.45	21.26	21.10	2
		25	0	20.48	20.51	20.33	3			12	0	20.44	20.39	20.28	3
		25	12	20.54	20.52	20.26	3			12	6	20.50	20.44	20.28	3
		25	25	20.54	20.43	20.15	3			12	13	20.52	20.36	20.21	3
		50	0	20.56	20.17	20.33	3			25	0	20.52	20.30	20.33	3
		50	0	20.56	20.17	20.33	3			25	0	20.52	20.30	20.33	3

FCC SAR Test Report

LTE Band 7															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350				Channel		20825	21100	21375	
		Frequency (MHz)		2510.0	2535.0	2560.0				Frequency (MHz)		2507.5	2535.0	2562.5	
20M	QPSK	1	0	17.49	17.41	17.31	0	15M	QPSK	1	0	17.46	17.41	17.31	0
		1	50	17.36	17.25	17.13	0			1	37	17.31	17.15	17.08	0
		1	99	17.39	17.23	17.11	0			1	74	17.33	17.19	17.09	0
		50	0	17.47	17.38	17.30	0			36	0	17.38	17.33	17.20	0
		50	25	17.41	17.37	17.25	0			36	19	17.39	17.27	17.21	0
		50	50	17.45	17.29	17.19	0			36	39	17.47	17.29	17.13	0
		100	0	17.42	17.34	17.24	0			75	0	17.39	17.34	17.22	0
		1	0	17.41	17.38	17.26	0		16QAM	1	0	17.43	17.31	17.24	0
	16QAM	1	50	17.27	17.24	17.13	0			1	37	17.34	17.23	16.98	0
		1	99	17.29	17.19	17.05	0			1	74	17.26	17.20	17.03	0
		50	0	17.40	17.35	17.25	0			36	0	17.35	17.36	17.23	0
		50	25	17.35	17.35	17.22	0			36	19	17.31	17.27	17.18	0
		50	50	17.46	17.29	17.15	0			36	39	17.39	17.16	17.04	0
		100	0	17.33	17.28	17.21	0			75	0	17.26	17.24	17.09	0
	64QAM	1	0	17.46	17.36	17.22	0		64QAM	1	0	17.34	17.29	17.27	0
		1	50	17.34	17.15	17.09	0			1	37	17.21	17.22	16.97	0
		1	99	17.32	17.17	17.01	0			1	74	17.36	17.06	17.10	0
		50	0	17.44	17.38	17.25	0			36	0	17.36	17.20	17.16	0
		50	25	17.36	17.32	17.25	0			36	19	17.27	17.26	17.20	0
		50	50	17.39	17.24	17.15	0			36	39	17.32	17.12	17.11	0
		100	0	17.33	17.29	17.18	0			75	0	17.41	17.18	17.23	0
10M	QPSK	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	5M	QPSK	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20800	21100	21400				Channel		20775	21100	21425	
		Frequency (MHz)		2505.0	2535.0	2565.0				Frequency (MHz)		2502.5	2535.0	2567.5	
		1	0	17.37	17.28	17.18	0			1	0	17.46	17.27	17.09	0
		1	24	17.24	17.19	16.97	0			1	12	17.34	17.23	16.91	0
		1	49	17.38	17.09	17.08	0			1	24	17.26	17.12	17.10	0
		25	0	17.24	17.21	17.14	0			12	0	17.29	17.32	17.09	0
		25	12	17.39	17.21	17.15	0			12	6	17.20	17.29	17.09	0
	16QAM	25	25	17.29	17.20	17.09	0			12	13	17.27	17.21	16.98	0
		50	0	17.22	17.29	17.07	0			25	0	17.35	17.17	16.97	0
		1	0	17.36	17.18	17.16	0		16QAM	1	0	17.34	17.23	17.10	0
		1	24	17.26	17.13	16.83	0			1	12	17.25	17.09	17.03	0
		1	49	17.19	17.01	16.95	0			1	24	17.24	17.13	17.03	0
		25	0	17.15	17.27	17.24	0			12	0	17.28	17.11	17.00	0
		25	12	17.30	17.20	17.01	0			12	6	17.19	17.16	17.08	0
		25	25	17.33	17.10	17.01	0			12	13	17.35	17.23	17.03	0
	64QAM	50	0	17.27	17.11	17.00	0			25	0	17.20	17.30	17.05	0
		1	0	17.19	17.23	17.15	0		64QAM	1	0	17.24	17.32	17.14	0
		1	24	17.26	17.02	16.84	0			1	12	17.15	17.10	17.07	0
		1	49	17.26	16.99	16.96	0			1	24	17.35	17.16	16.97	0
		25	0	17.30	17.16	17.19	0			12	0	17.32	17.21	17.20	0
		25	12	17.28	17.26	17.01	0			12	6	17.29	17.19	17.19	0
		25	25	17.28	17.02	16.99	0			12	13	17.23	17.08	17.07	0
		50	0	17.21	17.16	17.10	0			25	0	17.21	17.16	17.00	0

FCC SAR Test Report

LTE Band 12															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23060	23095	23130				Channel		23035	23095	23155	
		Frequency (MHz)		704.0	707.5	711.0				Frequency (MHz)		701.5	707.5	713.5	
10M	QPSK	1	0	23.79	23.74	23.78	0	5M	QPSK	1	0	23.75	23.66	23.64	0
		1	24	23.76	23.71	23.75	0			1	12	23.66	23.61	23.67	0
		1	49	23.66	23.74	23.77	0			1	24	23.57	23.73	23.75	0
		25	0	22.83	22.77	22.71	1			12	0	22.82	22.71	22.67	1
		25	12	22.84	22.78	22.77	1			12	6	22.75	22.67	22.66	1
		25	25	22.75	22.71	22.76	1			12	13	22.71	22.67	22.72	1
		50	0	22.78	22.73	22.68	1			25	0	22.70	22.72	22.59	1
		1	0	22.73	22.65	22.63	1		16QAM	1	0	22.59	22.66	22.65	1
	16QAM	1	24	22.67	22.62	22.71	1			1	12	22.61	22.58	22.63	1
		1	49	22.65	22.65	22.75	1			1	24	22.57	22.58	22.74	1
		25	0	21.79	21.72	21.64	2			12	0	21.76	21.68	21.57	2
		25	12	21.74	21.75	21.71	2			12	6	21.72	21.68	21.59	2
		25	25	21.73	21.69	21.76	2			12	13	21.63	21.64	21.65	2
		50	0	21.78	21.69	21.58	2			25	0	21.71	21.61	21.62	2
	64QAM	1	0	21.71	21.69	21.62	2		64QAM	1	0	21.70	21.58	21.53	2
		1	24	21.71	21.64	21.68	2			1	12	21.68	21.65	21.68	2
		1	49	21.63	21.69	21.74	2			1	24	21.63	21.63	21.64	2
		25	0	20.81	20.69	20.69	3			12	0	20.70	20.60	20.63	3
		25	12	20.79	20.77	20.72	3			12	6	20.81	20.57	20.64	3
		25	25	20.74	20.69	20.73	3			12	13	20.73	20.67	20.69	3
		50	0	20.70	20.67	20.68	3			25	0	20.63	20.68	20.57	3
		1	0	20.70	20.67	20.68	3			25	0	20.63	20.68	20.57	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23025	23095	23165				Channel		23017	23095	23173	
		Frequency (MHz)		700.5	707.5	714.5				Frequency (MHz)		699.7	707.5	715.3	
3M	QPSK	1	0	23.72	23.69	23.58	0	1.4M	QPSK	1	0	23.67	23.55	23.63	0
		1	7	23.60	23.64	23.72	0			1	2	23.58	23.58	23.57	0
		1	14	23.60	23.54	23.72	0			1	5	23.64	23.68	23.72	0
		8	0	22.71	22.66	22.61	1			3	0	23.71	23.66	23.58	0
		8	3	22.74	22.75	22.50	1			3	1	23.65	23.70	23.56	0
		8	7	22.64	22.59	22.63	1			3	3	23.62	23.48	23.70	0
		15	0	22.75	22.62	22.58	1			6	0	22.54	22.61	22.56	1
		1	0	22.69	22.44	22.47	1		16QAM	1	0	22.55	22.52	22.59	1
	16QAM	1	7	22.56	22.55	22.65	1			1	2	22.68	22.46	22.50	1
		1	14	22.55	22.53	22.70	1			1	5	22.42	22.52	22.56	1
		8	0	21.80	21.59	21.52	2			3	0	22.66	22.63	22.48	1
		8	3	21.74	21.65	21.49	2			3	1	22.65	22.56	22.64	1
		8	7	21.53	21.54	21.63	2			3	3	22.52	22.40	22.52	1
		15	0	21.59	21.53	21.44	2			6	0	21.56	21.62	21.50	2
	64QAM	1	0	21.52	21.63	21.61	2		64QAM	1	0	21.61	21.54	21.47	2
		1	7	21.54	21.57	21.67	2			1	2	21.50	21.59	21.53	2
		1	14	21.46	21.43	21.57	2			1	5	21.45	21.50	21.53	2
		8	0	20.70	20.65	20.56	3			3	0	21.56	21.65	21.46	2
		8	3	20.67	20.65	20.55	3			3	1	21.75	21.53	21.63	2
		8	7	20.57	20.48	20.59	3			3	3	21.61	21.51	21.53	2
		15	0	20.50	20.48	20.56	3			6	0	20.66	20.65	20.52	3

FCC SAR Test Report

LTE Band 12																	
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
		Channel		23060	23095	23130				Channel		23035	23095	23155			
		Frequency (MHz)		704.0	707.5	711.0				Frequency (MHz)		701.5	707.5	713.5			
10M	QPSK	1	0	21.99	21.93	21.95	0	5M	QPSK	1	0	21.92	21.93	21.85	0		
		1	24	21.96	21.89	21.93	0			1	12	21.86	21.81	21.91	0		
		1	49	21.89	21.93	21.94	0			1	24	21.86	21.92	21.92	0		
		25	0	21.96	21.95	21.92	0			12	0	21.89	21.95	21.83	0		
		25	12	21.92	21.96	21.90	0			12	6	21.86	21.93	21.81	0		
		25	25	21.96	21.96	21.95	0			12	13	21.86	21.88	21.94	0		
		50	0	21.93	21.91	21.89	0			25	0	21.83	21.88	21.86	0		
	16QAM	1	0	21.93	21.88	21.87	0		16QAM	1	0	21.88	21.85	21.79	0		
		1	24	21.88	21.83	21.90	0			1	12	21.91	21.81	21.86	0		
		1	49	21.83	21.90	21.92	0			1	24	21.86	21.87	21.77	0		
		25	0	21.96	21.87	21.91	0			12	0	21.91	21.83	21.85	0		
		25	12	21.87	21.88	21.84	0			12	6	21.80	21.83	21.79	0		
		25	25	21.96	21.93	21.89	0			12	13	21.78	21.95	21.85	0		
		50	0	21.86	21.90	21.85	0			25	0	21.89	21.79	21.75	0		
	64QAM	1	0	21.92	21.85	21.82	0		64QAM	1	0	21.86	21.77	21.82	0		
		1	24	21.87	21.80	21.85	0			1	12	21.82	21.73	21.85	0		
		1	49	21.83	21.83	21.88	0			1	24	21.79	21.87	21.89	0		
		25	0	21.90	21.90	21.84	0			12	0	21.86	21.88	21.83	0		
		25	12	21.90	21.89	21.82	0			12	6	21.82	21.95	21.82	0		
		25	25	21.96	21.96	21.87	0			12	13	21.87	21.89	21.89	0		
		50	0	21.83	21.82	21.79	0			25	0	21.80	21.82	21.79	0		
	BW	MCS Index	RB Size	RB Offset	Low	Mid	High		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
			Channel		23025	23095	23165					Channel		23017	23095	23173	
			Frequency (MHz)		700.5	707.5	714.5					Frequency (MHz)		699.7	707.5	715.3	
3M	QPSK	1	0	21.87	21.78	21.84	0	1.4M	QPSK	1	0	21.87	21.84	21.71	0		
		1	7	21.78	21.72	21.86	0			1	2	21.88	21.85	21.79	0		
		1	14	21.72	21.81	21.82	0			1	5	21.81	21.84	21.81	0		
		8	0	21.84	21.77	21.78	0			3	0	21.76	21.88	21.82	0		
		8	3	21.70	21.74	21.83	0			3	1	21.73	21.84	21.78	0		
		8	7	21.88	21.85	21.83	0			3	3	21.79	21.83	21.87	0		
		15	0	21.84	21.73	21.70	0			6	0	21.74	21.73	21.75	0		
	16QAM	1	0	21.86	21.84	21.77	0		16QAM	1	0	21.81	21.65	21.74	0		
		1	7	21.84	21.67	21.80	0			1	2	21.72	21.76	21.87	0		
		1	14	21.72	21.84	21.71	0			1	5	21.62	21.85	21.73	0		
		8	0	21.71	21.82	21.73	0			3	0	21.82	21.76	21.77	0		
		8	3	21.70	21.74	21.64	0			3	1	21.83	21.86	21.74	0		
		8	7	21.73	21.80	21.79	0			3	3	21.72	21.74	21.81	0		
		15	0	21.74	21.68	21.70	0			6	0	21.81	21.79	21.70	0		
	64QAM	1	0	21.93	21.71	21.76	0		64QAM	1	0	21.81	21.83	21.69	0		
		1	7	21.76	21.72	21.76	0			1	2	21.75	21.78	21.70	0		
		1	14	21.85	21.77	21.69	0			1	5	21.77	21.84	21.72	0		
		8	0	21.76	21.77	21.66	0			3	0	21.74	21.82	21.79	0		
		8	3	21.70	21.68	21.67	0			3	1	21.87	21.67	21.73	0		
		8	7	21.72	21.83	21.74	0			3	3	21.84	21.71	21.80	0		
		15	0	21.78	21.75	21.69	0			6	0	21.86	21.65	21.76	0		

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LTE Band 13																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	
		Channel								23205	23230					23225
		Frequency (MHz)								779.5	782.0					784.5
10M	QPSK	1	0		23.67		0	5M	QPSK	1	0	23.52	23.58	23.52	0	
		1	24		23.83		0			1	12	23.69	23.80	23.65	0	
		1	49		23.42		0			1	24	23.29	23.41	23.34	0	
		25	0		22.81		1			12	0	22.71	22.72	22.79	1	
		25	12		22.91		1			12	6	22.81	22.85	22.80	1	
		25	25		22.86		1			12	13	22.63	22.85	22.80	1	
		50	0		22.88		1			25	0	22.87	22.88	22.78	1	
	16QAM	1	0		22.66		1		16QAM	1	0	22.48	22.60	22.41	1	
		1	24		22.77		1			1	12	22.59	22.69	22.74	1	
		1	49		22.42		1			1	24	22.12	22.31	22.14	1	
		25	0		21.75		2			12	0	21.60	21.68	21.66	2	
		25	12		21.83		2			12	6	21.61	21.79	21.68	2	
		25	25		21.79		2			12	13	21.71	21.78	21.71	2	
		50	0		21.85		2			25	0	21.76	21.81	21.74	2	
	64QAM	1	0		21.67		2		64QAM	1	0	21.54	21.54	21.52	2	
		1	24		21.74		2			1	12	21.67	21.68	21.65	2	
		1	49		21.37		2			1	24	21.27	21.27	21.31	2	
		25	0		20.73		3			12	0	20.71	20.69	20.75	3	
		25	12		20.86		3			12	6	20.72	20.87	20.69	3	
		25	25		20.82		3			12	13	20.62	20.78	20.65	3	
		50	0		20.79		3			25	0	20.77	20.81	20.63	3	

LTE Band 13															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel								Channel					
		Frequency (MHz)								Frequency (MHz)					
10M	QPSK	1	0		19.46		0	5M	QPSK	1	0	19.35	19.42	19.22	0
		1	24		19.41		0			1	12	19.31	19.38	19.29	0
		1	49		19.44		0			1	24	19.20	19.39	19.30	0
		25	0		19.39		0			12	0	19.28	19.33	19.36	0
		25	12		19.45		0			12	6	19.32	19.35	19.42	0
		25	25		19.39		0			12	13	19.24	19.34	19.28	0
		50	0		19.45		0			25	0	19.24	19.45	19.37	0
	16QAM	1	0		19.40		0		16QAM	1	0	19.33	19.37	19.39	0
		1	24		19.41		0			1	12	19.18	19.29	19.27	0
		1	49		19.39		0			1	24	19.20	19.41	19.20	0
		25	0		19.30		0			12	0	19.20	19.33	19.18	0
		25	12		19.35		0			12	6	19.21	19.25	19.40	0
		25	25		19.38		0			12	13	19.14	19.29	19.17	0
		50	0		19.42		0			25	0	19.28	19.31	19.21	0
	64QAM	1	0		19.41		0		64QAM	1	0	19.14	19.28	19.34	0
		1	24		19.37		0			1	12	19.26	19.32	19.31	0
		1	49		19.44		0			1	24	19.24	19.44	19.31	0
		25	0		19.37		0			12	0	19.26	19.30	19.15	0
		25	12		19.44		0			12	6	19.27	19.32	19.19	0
		25	25		19.38		0			12	13	19.12	19.28	19.20	0
		50	0		19.42		0			25	0	19.37	19.36	19.25	0

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LTE Band 14																			
EUT without Power Reduction (P-Sensor NOT Triggered)																			
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)				
		Channel								23330	Channel					23305	23330	23355	
		Frequency (MHz)								793.0	Frequency (MHz)					790.5	793.0	795.5	
10M	QPSK	1	0		23.81		0	5M	QPSK	1	0	23.77	23.80	23.72	0				
		1	24		23.77		0			1	12	23.71	23.70	23.67	0				
		1	49		23.64		0			1	24	23.57	23.62	23.55	0				
		25	0		22.82		1			12	0	22.76	22.74	22.72	1				
		25	12		22.82		1			12	6	22.74	22.74	22.80	1				
		25	25		22.75		1			12	13	22.71	22.71	22.73	1				
		50	0		22.80		1			25	0	22.70	22.70	22.70	1				
	16QAM	1	0		22.73		1		16QAM	1	0	22.73	22.72	22.74	1				
		1	24		22.77		1			1	12	22.59	22.69	22.65	1				
		1	49		22.64		1			1	24	22.55	22.49	22.55	1				
		25	0		21.81		2			12	0	21.66	21.66	21.67	2				
		25	12		21.81		2			12	6	21.77	21.72	21.81	2				
		25	25		21.69		2			12	13	21.57	21.61	21.66	2				
	64QAM	50	0		21.78		2		64QAM	25	0	21.71	21.78	21.68	2				
		1	0		21.79		2			1	0	21.72	21.69	21.79	2				
		1	24		21.67		2			1	12	21.72	21.74	21.64	2				
		1	49		21.59		2			1	24	21.58	21.48	21.55	2				
		25	0		20.76		3			12	0	20.79	20.65	20.76	3				
		25	12		20.78		3			12	6	20.63	20.69	20.73	3				
		25	25		20.75		3			12	13	20.67	20.58	20.70	3				
		50	0		20.73		3			25	0	20.69	20.70	20.72	3				

LTE Band 14															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			23330					Channel		23305	23330	23355	
		Frequency (MHz)			793.0					Frequency (MHz)		790.5	793.0	795.5	
10M	QPSK	1	0		19.47		0	5M	QPSK	1	0	19.25	19.37	19.40	0
		1	24		19.44		0			1	12	19.35	19.39	19.24	0
		1	49		19.33		0			1	24	19.18	19.23	19.25	0
		25	0		19.45		0			12	0	19.23	19.41	19.41	0
		25	12		19.44		0			12	6	19.34	19.44	19.25	0
		25	25		19.42		0			12	13	19.26	19.37	19.26	0
		50	0		19.43		0			25	0	19.35	19.33	19.38	0
	16QAM	1	0		19.46		0		16QAM	1	0	19.42	19.31	19.25	0
		1	24		19.44		0			1	12	19.21	19.30	19.20	0
		1	49		19.26		0			1	24	19.01	19.29	19.10	0
		25	0		19.41		0			12	0	19.25	19.44	19.20	0
		25	12		19.43		0			12	6	19.29	19.28	19.21	0
		25	25		19.42		0			12	13	19.31	19.34	19.16	0
		50	0		19.35		0			25	0	19.11	19.41	19.21	0
	64QAM	1	0		19.39		0		64QAM	1	0	19.31	19.31	19.25	0
		1	24		19.36		0			1	12	19.25	19.35	19.20	0
		1	49		19.24		0			1	24	19.12	19.24	19.16	0
		25	0		19.45		0			12	0	19.35	19.37	19.13	0
		25	12		19.43		0			12	6	19.35	19.31	19.31	0
		25	25		19.35		0			12	13	19.19	19.34	19.32	0
		50	0		19.42		0			25	0	19.36	19.30	19.22	0

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LTE Band 17															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23780	23790	23800				Channel		23755	23790	23825	
		Frequency (MHz)		709.0	710.0	711.0				Frequency (MHz)		706.5	710.0	713.5	
10M	QPSK	1	0	23.94	23.91	23.90	0	5M	QPSK	1	0	23.89	23.86	23.89	0
		1	24	23.79	23.78	23.76	0			1	12	23.76	23.71	23.70	0
		1	49	23.84	23.80	23.78	0			1	24	23.78	23.75	23.77	0
		25	0	22.88	22.87	22.86	1			12	0	22.85	22.77	22.81	1
		25	12	22.87	22.85	22.85	1			12	6	22.87	22.77	22.82	1
		25	25	22.81	22.79	22.80	1			12	13	22.77	22.77	22.77	1
		50	0	22.86	22.85	22.83	1			25	0	22.81	22.79	22.77	1
		1	0	22.84	22.83	22.82	1		16QAM	1	0	22.84	22.74	22.81	1
	16QAM	1	24	22.76	22.74	22.67	1			1	12	22.59	22.63	22.69	1
		1	49	22.83	22.75	22.75	1			1	24	22.74	22.74	22.67	1
		25	0	21.87	21.77	21.78	2			12	0	21.83	21.78	21.79	2
		25	12	21.84	21.76	21.82	2			12	6	21.72	21.79	21.70	2
		25	25	21.80	21.76	21.78	2			12	13	21.73	21.62	21.69	2
		50	0	21.84	21.82	21.75	2			25	0	21.75	21.75	21.70	2
		1	0	21.87	21.83	21.81	2		64QAM	1	0	21.83	21.78	21.84	2
	64QAM	1	24	21.76	21.68	21.71	2			1	12	21.66	21.68	21.63	2
		1	49	21.81	21.78	21.69	2			1	24	21.69	21.69	21.64	2
		25	0	20.83	20.87	20.77	3			12	0	20.79	20.68	20.80	3
		25	12	20.79	20.75	20.76	3			12	6	20.78	20.71	20.72	3
		25	25	20.76	20.79	20.79	3			12	13	20.75	20.67	20.71	3
		50	0	20.84	20.79	20.79	3			25	0	20.78	20.71	20.72	3

LTE Band 17															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23780	23790	23800				Channel		23755	23790	23825	
		Frequency (MHz)		709.0	710.0	711.0				Frequency (MHz)		706.5	710.0	713.5	
10M	QPSK	1	0	22.99	22.92	22.90	0	5M	QPSK	1	0	22.82	22.87	22.70	0
		1	24	22.85	22.78	22.76	0			1	12	22.75	22.65	22.39	0
		1	49	22.88	22.81	22.79	0			1	24	22.70	22.67	22.60	0
		25	0	21.72	21.63	21.61	1			12	0	21.57	21.46	21.40	1
		25	12	21.70	21.65	21.63	1			12	6	21.50	21.48	21.37	1
		25	25	21.67	21.60	21.58	1			12	13	21.66	21.50	21.43	1
		50	0	21.71	21.64	21.62	1			25	0	21.62	21.48	21.34	1
	16QAM	1	0	21.95	21.84	21.90	1		16QAM	1	0	21.92	21.76	21.82	1
		1	24	21.79	21.73	21.71	1			1	12	21.61	21.73	21.60	1
		1	49	21.87	21.76	21.75	1			1	24	21.74	21.62	21.63	1
		25	0	20.63	20.60	20.57	2			12	0	20.57	20.48	20.33	2
		25	12	20.64	20.63	20.63	2			12	6	20.61	20.39	20.44	2
		25	25	20.59	20.59	20.58	2			12	13	20.54	20.52	20.44	2
		50	0	20.65	20.63	20.54	2			25	0	20.60	20.43	20.45	2
		1	0	20.92	20.87	20.87	2		64QAM	1	0	20.80	20.69	20.74	2
	64QAM	1	24	20.77	20.77	20.76	2			1	12	20.65	20.63	20.59	2
		1	49	20.87	20.77	20.76	2			1	24	20.77	20.62	20.67	2
		25	0	19.69	19.59	19.55	3			12	0	19.54	19.45	19.43	3
		25	12	19.70	19.65	19.53	3			12	6	19.63	19.47	19.41	3
		25	25	19.60	19.59	19.49	3			12	13	19.43	19.47	19.34	3
		50	0	19.64	19.59	19.61	3			25	0	19.49	19.41	19.36	3

Note : Only LTE Band 7 with power reduction supports 3GPP MPR.

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LTE Band 25															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26140	26365	26590				Channel		26115	26365	26615	
		Frequency (MHz)		1860.0	1882.5	1905.0				Frequency (MHz)		1857.5	1882.5	1907.5	
20M	QPSK	1	0	23.72	23.64	23.62	0	15M	QPSK	1	0	23.65	23.55	23.58	0
		1	50	23.54	23.48	23.43	0			1	37	23.52	23.45	23.37	0
		1	99	23.44	23.24	23.43	0			1	74	23.41	23.18	23.39	0
		50	0	22.71	22.67	22.62	1			36	0	22.63	22.57	22.56	1
		50	25	22.61	22.56	22.51	1			36	19	22.54	22.56	22.50	1
		50	50	22.50	22.46	22.46	1			36	39	22.46	22.41	22.40	1
		100	0	22.61	22.54	22.59	1			75	0	22.59	22.51	22.53	1
		1	0	22.63	22.58	22.53	1		16QAM	1	0	22.57	22.50	22.54	1
	16QAM	1	50	22.45	22.48	22.41	1			1	37	22.43	22.29	22.32	1
		1	99	22.40	22.16	22.38	1			1	74	22.27	22.16	22.32	1
		50	0	21.62	21.62	21.61	2			36	0	21.55	21.49	21.50	2
		50	25	21.55	21.51	21.46	2			36	19	21.44	21.54	21.44	2
		50	50	21.43	21.43	21.43	2			36	39	21.43	21.38	21.37	2
		100	0	21.54	21.51	21.55	2			75	0	21.50	21.47	21.47	2
	64QAM	1	0	21.64	21.63	21.59	2		64QAM	1	0	21.56	21.54	21.51	2
		1	50	21.48	21.38	21.34	2			1	37	21.38	21.42	21.37	2
		1	99	21.39	21.20	21.43	2			1	74	21.27	21.11	21.38	2
		50	0	20.65	20.57	20.53	3			36	0	20.64	20.51	20.52	3
		50	25	20.57	20.51	20.42	3			36	19	20.54	20.54	20.48	3
		50	50	20.50	20.39	20.38	3			36	39	20.41	20.35	20.37	3
		100	0	20.53	20.51	20.49	3			75	0	20.55	20.50	20.56	3
10M	QPSK	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	5M	QPSK	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26090	26365	26640				Channel		26065	26365	26665	
		Frequency (MHz)		1855.0	1882.5	1910.0				Frequency (MHz)		1852.5	1882.5	1912.5	
		1	0	23.69	23.52	23.48	0			1	0	23.61	23.55	23.47	0
		1	24	23.29	23.35	23.40	0			1	12	23.40	23.36	23.15	0
		1	49	23.32	23.10	23.42	0			1	24	23.30	23.01	23.19	0
		25	0	22.57	22.56	22.55	1			12	0	22.48	22.50	22.42	1
		25	12	22.47	22.43	22.42	1			12	6	22.48	22.56	22.26	1
	16QAM	25	25	22.34	22.30	22.36	1			12	13	22.33	22.31	22.27	1
		50	0	22.43	22.45	22.47	1			25	0	22.47	22.34	22.35	1
		1	0	22.50	22.51	22.37	1		16QAM	1	0	22.53	22.46	22.43	1
		1	24	22.28	22.25	22.36	1			1	12	22.34	22.19	22.09	1
		1	49	22.28	22.11	22.34	1			1	24	22.37	22.06	22.34	1
		25	0	21.46	21.58	21.48	2			12	0	21.61	21.57	21.40	2
		25	12	21.40	21.32	21.32	2			12	6	21.48	21.31	21.39	2
		25	25	21.43	21.36	21.20	2			12	13	21.22	21.25	21.25	2
		50	0	21.47	21.36	21.38	2			25	0	21.39	21.30	21.44	2
	64QAM	1	0	21.43	21.41	21.42	2		64QAM	1	0	21.48	21.38	21.54	2
		1	24	21.44	21.31	21.18	2			1	12	21.34	21.24	21.11	2
		1	49	21.26	21.03	21.27	2			1	24	21.30	21.10	21.35	2
		25	0	20.49	20.45	20.53	3			12	0	20.59	20.50	20.41	3
		25	12	20.46	20.31	20.43	3			12	6	20.38	20.37	20.27	3
		25	25	20.29	20.18	20.35	3			12	13	20.42	20.19	20.21	3
		50	0	20.51	20.30	20.52	3			25	0	20.35	20.43	20.40	3
3M	QPSK	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	1.4M	QPSK	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26055	26365	26675				Channel		26047	26365	26683	
		Frequency (MHz)		1851.5	1882.5	1913.5				Frequency (MHz)		1850.7	1882.5	1914.3	
		1	0	23.60	23.51	23.55	0			1	0	23.64	23.51	23.54	0
		1	7	23.41	23.33	23.34	0			1	2	23.37	23.32	23.26	0
		1	14	23.33	23.15	23.35	0			1	5	23.31	23.18	23.22	0
		8	0	22.58	22.54	22.50	1			3	0	23.66	23.61	23.59	0
		8	3	22.53	22.43	22.37	1			3	1	23.54	23.54	23.31	0
	16QAM	8	7	22.40	22.33	22.38	1			3	3	23.40	23.29	23.39	0
		15	0	22.47	22.44	22.39	1			6	0	22.42	22.47	22.52	1
		1	0	22.49	22.41	22.41	1		16QAM	1	0	22.60	22.54	22.55	1
		1	7	22.28	22.26	22.17	1			1	2	22.32	22.27	22.39	1
		1	14	22.34	22.10	22.22	1			1	5	22.36	21.95	22.37	1
		8	0	21.57	21.55	21.55	2			3	0	22.58	22.47	22.44	1
		8	3	21.40	21.31	21.37	2			3	1	22.35	22.40	22.44	1
		8	7	21.41	21.22	21.29	2			3	3	22.19	22.31	22.31	1
		15	0	21.38	21.32	21.45	2			6	0	21.40	21.40	21.43	2
	64QAM	1	0	21.56	21.57	21.46	2		64QAM	1	0	21.48	21.53	21.51	2
		1	7	21.42	21.36	21.34	2			1	2	21.33	21.23	21.21	2
		1	14	21.24	21.00	21.19	2			1	5	21.26	21.03	21.32	2
		8	0	20.52	20.40	20.38	3			3	0	21.60	21.48	21.41	2
		8	3	20.40	20.43	20.34	3			3	1	21.40	21.38	21.38	2
		8	7	20.27	20.37	20.31	3			3	3	21.41	21.26	21.24	2
		15	0	20.39	20.30	20.32	3			6	0	20.42	20.28	20.40	3

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LTE Band 25															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26140	26365	26590				Channel		26115	26365	26615	
		Frequency (MHz)		1860.0	1882.5	1905.0				Frequency (MHz)		1857.5	1882.5	1907.5	
20M	QPSK	1	0	19.99	19.93	19.91	0	15M	QPSK	1	0	19.93	19.91	19.88	0
		1	50	19.81	19.78	19.69	0			1	37	19.80	19.76	19.63	0
		1	99	19.65	19.51	19.70	0			1	74	19.64	19.46	19.63	0
		50	0	19.98	19.92	19.86	0			36	0	19.94	19.91	19.80	0
		50	25	19.86	19.84	19.75	0			36	19	19.78	19.84	19.71	0
		50	50	19.78	19.70	19.71	0			36	39	19.69	19.61	19.68	0
		100	0	19.93	19.83	19.92	0			75	0	19.91	19.74	19.82	0
		1	0	19.98	19.89	19.91	0		16QAM	1	0	19.88	19.76	19.84	0
	16QAM	1	50	19.74	19.70	19.62	0			1	37	19.70	19.70	19.54	0
		1	99	19.57	19.47	19.63	0			1	74	19.53	19.41	19.68	0
		50	0	19.88	19.83	19.82	0			36	0	19.84	19.84	19.85	0
		50	25	19.76	19.76	19.66	0			36	19	19.84	19.78	19.70	0
		50	50	19.68	19.66	19.70	0			36	39	19.68	19.50	19.68	0
		100	0	19.89	19.83	19.84	0			75	0	19.90	19.70	19.85	0
		1	0	19.98	19.87	19.91	0		64QAM	1	0	19.82	19.81	19.90	0
	64QAM	1	50	19.71	19.70	19.66	0			1	37	19.68	19.67	19.56	0
		1	99	19.61	19.51	19.61	0			1	74	19.59	19.43	19.61	0
		50	0	19.94	19.85	19.81	0			36	0	19.88	19.83	19.71	0
		50	25	19.86	19.80	19.67	0			36	19	19.70	19.74	19.65	0
		50	50	19.72	19.63	19.66	0			36	39	19.65	19.68	19.61	0
		100	0	19.85	19.78	19.83	0			75	0	19.87	19.74	19.83	0
		1	0	19.83	19.85	19.70	0		QPSK	1	0	19.87	19.77	19.60	0
10M	QPSK	1	24	19.63	19.72	19.54	0			1	12	19.64	19.66	19.56	0
		1	49	19.58	19.43	19.63	0			1	24	19.55	19.31	19.52	0
		25	0	19.80	19.86	19.81	0			12	0	19.94	19.87	19.71	0
		25	12	19.65	19.77	19.64	0			12	6	19.74	19.79	19.67	0
		25	25	19.61	19.51	19.56	0			12	13	19.68	19.58	19.39	0
		50	0	19.89	19.80	19.78	0			25	0	19.86	19.74	19.82	0
	16QAM	1	0	19.83	19.71	19.61	0		16QAM	1	0	19.94	19.79	19.72	0
		1	24	19.56	19.65	19.48	0			1	12	19.52	19.72	19.48	0
		1	49	19.40	19.32	19.61	0			1	24	19.48	19.25	19.52	0
		25	0	19.70	19.72	19.74	0			12	0	19.89	19.79	19.74	0
		25	12	19.73	19.64	19.63	0			12	6	19.71	19.79	19.59	0
		25	25	19.54	19.65	19.58	0			12	13	19.65	19.45	19.52	0
		50	0	19.74	19.70	19.78	0			25	0	19.76	19.61	19.85	0
		1	0	19.81	19.83	19.83	0		64QAM	1	0	19.76	19.77	19.84	0
	64QAM	1	24	19.58	19.53	19.61	0			1	12	19.66	19.61	19.45	0
		1	49	19.59	19.41	19.57	0			1	24	19.50	19.34	19.55	0
		25	0	19.92	19.71	19.73	0			12	0	19.84	19.72	19.77	0
		25	12	19.81	19.61	19.52	0			12	6	19.73	19.65	19.65	0
		25	25	19.58	19.62	19.57	0			12	13	19.66	19.56	19.41	0
		50	0	19.84	19.67	19.70	0			25	0	19.73	19.68	19.82	0
		1	0	19.87	19.75	19.86	0	3M	QPSK	v	0	19.83	19.80	19.79	0
3M	QPSK	1	7	19.72	19.57	19.52	0			1	2	19.68	19.61	19.53	0
		1	14	19.64	19.46	19.55	0			1	5	19.44	19.34	19.57	0
		8	0	19.87	19.70	19.74	0			3	0	19.86	19.71	19.80	0
		8	3	19.84	19.62	19.66	0			3	1	19.74	19.77	19.65	0
		8	7	19.71	19.55	19.60	0			3	3	19.75	19.53	19.60	0
		15	0	19.82	19.69	19.69	0			6	0	19.92	19.68	19.89	0
	16QAM	1	0	19.88	19.88	19.86	0		16QAM	1	0	19.66	19.74	19.74	0
		1	7	19.56	19.64	19.41	0			1	2	19.62	19.73	19.59	0
		1	14	19.50	19.32	19.58	0			1	5	19.60	19.38	19.57	0
		8	0	19.73	19.64	19.82	0			3	0	19.89	19.79	19.77	0
		8	3	19.82	19.52	19.51	0			3	1	19.73	19.61	19.70	0
		8	7	19.55	19.47	19.57	0			3	3	19.65	19.53	19.52	0
		15	0	19.85	19.70	19.87	0			6	0	19.84	19.77	19.73	0
		1	0	19.86	19.72	19.76	0		64QAM	1	0	19.87	19.76	19.82	0
	64QAM	1	7	19.53	19.67	19.40	0			1	2	19.57	19.64	19.52	0
		1	14	19.44	19.34	19.60	0			1	5	19.40	19.37	19.57	0
		8	0	19.83	19.87	19.60	0			3	0	19.70	19.79	19.75	0
		8	3	19.73	19.71	19.50	0			3	1	19.54	19.71	19.52	0
		8	7	19.62	19.51	19.54	0			3	3	19.68	19.50	19.55	0
		15	0	19.79	19.57	19.67	0			6	0	19.61	19.74	19.76	0

FCC SAR Test Report

LTE Band 26															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26765	26865	26965				Channel		26740	26865	26990	
		Frequency (MHz)		821.5	831.5	841.5				Frequency (MHz)		819.0	831.5	844.0	
15M	QPSK	1	0	23.83	23.93	23.90	0	10M	QPSK	1	0	23.47	23.80	23.70	0
		1	37	23.82	23.86	23.89	0			1	24	23.78	23.65	23.78	0
		1	74	23.79	23.75	23.69	0			1	49	23.65	23.66	23.49	0
		36	0	22.93	22.97	22.91	1			25	0	22.66	22.87	22.74	1
		36	19	22.92	22.93	22.88	1			25	12	22.86	22.81	22.65	1
		36	39	22.88	22.82	22.86	1			25	25	22.87	22.72	22.82	1
		75	0	22.85	22.91	22.84	1			50	0	22.71	22.80	22.72	1
		1	0	22.58	22.87	22.80	1		16QAM	1	0	22.41	22.73	22.59	1
	16QAM	1	37	22.75	22.81	22.82	1			1	24	22.69	22.76	22.67	1
		1	74	22.71	22.65	22.69	1			1	49	22.57	22.62	22.43	1
		36	0	21.76	21.92	21.83	2			25	0	21.65	21.73	21.69	2
		36	19	21.86	21.90	21.82	2			25	12	21.70	21.70	21.60	2
		36	39	21.87	21.80	21.84	2			25	25	21.65	21.57	21.65	2
		75	0	21.85	21.89	21.80	2			50	0	21.60	21.75	21.55	2
		1	0	21.61	21.86	21.82	2		64QAM	1	0	21.39	21.89	21.82	2
	64QAM	1	37	21.75	21.78	21.85	2			1	24	21.70	21.69	21.66	2
		1	74	21.75	21.65	21.63	2			1	49	21.58	21.52	21.56	2
		36	0	20.81	20.92	20.83	3			25	0	20.66	20.67	20.69	3
		36	19	20.83	20.91	20.86	3			25	12	20.78	20.73	20.87	3
		36	39	20.79	20.79	20.82	3			25	25	20.62	20.57	20.68	3
		75	0	20.80	20.88	20.76	3			50	0	20.61	20.88	20.64	3
		1	0	20.80	20.88	20.76	3			50	0	20.61	20.88	20.64	3
5M	QPSK	1	0	23.43	23.82	23.59	0	3M	QPSK	1	0	23.44	23.76	23.69	0
		1	12	23.74	23.80	23.70	0			1	7	23.75	23.80	23.77	0
		1	24	23.71	23.65	23.52	0			1	14	23.74	23.54	23.59	0
		12	0	22.73	22.83	22.77	1			8	0	22.61	22.80	22.80	1
		12	6	22.77	22.79	22.67	1			8	3	22.81	22.84	22.72	1
		12	13	22.81	22.68	22.68	1			8	7	22.76	22.70	22.79	1
		25	0	22.76	22.81	22.60	1			15	0	22.72	22.83	22.66	1
		1	0	22.42	22.68	22.65	1		16QAM	1	0	22.46	22.79	22.59	1
	16QAM	1	12	22.54	22.71	22.76	1			1	7	22.63	22.70	22.69	1
		1	24	22.74	22.54	22.51	1			1	14	22.59	22.55	22.55	1
		12	0	21.56	21.75	21.76	2			8	0	21.66	21.79	21.69	2
		12	6	21.87	21.85	21.67	2			8	3	21.72	21.76	21.77	2
		12	13	21.69	21.63	21.61	2			8	7	21.66	21.69	21.62	2
		25	0	21.62	21.70	21.64	2			15	0	21.62	21.76	21.66	2
		1	0	21.55	21.83	21.67	2		64QAM	1	0	21.55	21.84	21.73	2
	64QAM	1	12	21.70	21.66	21.73	2			1	7	21.65	21.70	21.63	2
		1	24	21.66	21.48	21.57	2			1	14	21.53	21.65	21.54	2
		12	0	20.54	20.72	20.74	3			8	0	20.70	20.75	20.77	3
		12	6	20.78	20.71	20.71	3			8	3	20.65	20.71	20.75	3
		12	13	20.69	20.70	20.59	3			8	7	20.71	20.56	20.63	3
		25	0	20.62	20.80	20.60	3			15	0	20.59	20.65	20.66	3
		25	0	20.62	20.80	20.60	3			15	0	20.59	20.65	20.66	3
1.4M	QPSK	1	0	23.45	23.82	23.69	0		QPSK	1	0	23.45	23.82	23.69	0
		1	2	23.75	23.66	23.74	0			1	2	23.75	23.66	23.74	0
		1	5	23.62	23.67	23.53	0			1	5	23.62	23.67	23.53	0
		3	0	23.61	23.86	23.69	0			3	0	23.61	23.86	23.69	0
		3	1	23.73	23.77	23.88	0			3	1	23.73	23.77	23.88	0
		3	3	23.67	23.65	23.83	0			3	3	23.67	23.65	23.83	0
		6	0	22.78	22.77	22.70	1			6	0	22.78	22.77	22.70	1
		1	0	22.53	22.82	22.58	1		16QAM	1	0	22.53	22.82	22.58	1
	16QAM	1	2	22.70	22.67	22.72	1			1	2	22.70	22.67	22.72	1
		1	5	22.65	22.52	22.55	1			1	5	22.65	22.52	22.55	1
		3	0	22.58	22.71	22.81	1			3	0	22.58	22.71	22.81	1
		3	1	22.74	22.71	22.67	1			3	1	22.74	22.71	22.67	1
		3	3	22.71	22.60	22.63	1			3	3	22.71	22.60	22.63	1
		6	0	21.68	21.76	21.67	2			6	0	21.68	21.76	21.67	2
		1	0	21.44	21.74	21.69	2		64QAM	1	0	21.44	21.74	21.69	2
	64QAM	1	2	21.70	21.72	21.73	2			1	2	21.70	21.72	21.73	2
		1	5	21.64	21.63	21.53	2			1	5	21.64	21.63	21.53	2
		3	0	21.56	21.80	21.64	2			3	0	21.56	21.80	21.64	2
		3	1	21.77	21.81	21.66	2			3	1	21.77	21.81	21.66	2
		3	3	21.76	21.77	21.63	2			3	3	21.76	21.77	21.63	2
		6	0	20.58	20.82	20.66	3			6	0	20.58	20.82	20.66	3
		6	0	20.58	20.82	20.66	3			6	0	20.58	20.82	20.66	3

FCC SAR Test Report

LTE Band 26															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26765	26865	26965				Channel		26740	26865	26990	
		Frequency (MHz)		821.5	831.5	841.5				Frequency (MHz)		819.0	831.5	844.0	
15M	QPSK	1	0	19.48	19.41	19.49	0	10M	QPSK	1	0	19.18	19.41	19.47	0
		1	37	19.43	19.39	19.44	0			1	24	19.35	19.32	19.41	0
		1	74	19.47	19.31	19.24	0			1	49	19.43	19.23	19.20	0
		36	0	19.42	19.45	19.48	0			25	0	19.35	19.39	19.48	0
		36	19	19.38	19.46	19.39	0			25	12	19.28	19.37	19.32	0
		36	39	19.42	19.32	19.37	0			25	25	19.32	19.29	19.31	0
		75	0	19.39	19.42	19.43	0			50	0	19.39	19.38	19.36	0
		1	0	19.17	19.39	19.47	0			16QAM	1	0	19.11	19.29	19.35
	1	37	19.34	19.39	19.36	0	1		24		19.30	19.25	19.36	0	
	1	74	19.46	19.24	19.24	0	1		49		19.34	19.22	19.15	0	
	36	0	19.33	19.36	19.43	0	25		0		19.36	19.34	19.43	0	
	36	19	19.32	19.44	19.30	0	25		12		19.35	19.37	19.21	0	
	36	39	19.35	19.24	19.33	0	25		25		19.32	19.26	19.28	0	
	75	0	19.35	19.39	19.36	0	50		0		19.30	19.33	19.31	0	
	1	0	19.23	19.38	19.46	0	64QAM		1		0	19.16	19.24	19.39	0
	1	37	19.40	19.30	19.35	0			1	24	19.34	19.31	19.37	0	
	1	74	19.38	19.26	19.16	0			1	49	19.32	19.21	19.17	0	
	36	0	19.36	19.35	19.47	0			25	0	19.36	19.29	19.33	0	
	36	19	19.32	19.40	19.29	0			25	12	19.22	19.34	19.28	0	
	36	39	19.33	19.22	19.32	0			25	25	19.36	19.17	19.27	0	
	75	0	19.38	19.32	19.40	0			50	0	19.30	19.35	19.30	0	
	BW	MCS Index	RB Size	RB Offset	Low	Mid			High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low
Channel			26715	26865	27015	Channel		26705	26865				27025		
Frequency (MHz)			816.5	831.5	846.5	Frequency (MHz)		815.5	831.5				847.5		
5M	QPSK	1	0	19.12	19.30	19.37	0	3M	QPSK	1	0	19.15	19.33	19.21	0
		1	12	19.36	19.31	19.35	0			1	7	19.32	19.24	19.29	0
		1	24	19.39	19.26	19.03	0			1	14	19.25	19.17	19.07	0
		12	0	19.31	19.39	19.35	0			8	0	19.30	19.33	19.18	0
		12	6	19.25	19.37	19.20	0			8	3	19.26	19.25	19.06	0
		12	13	19.24	19.18	19.31	0			8	7	19.33	19.12	19.16	0
		25	0	19.30	19.29	19.29	0			15	0	19.35	19.33	19.16	0
		1	0	18.96	19.24	19.31	0			16QAM	1	0	19.00	19.21	19.30
	1	12	19.30	19.22	19.27	0	1		7		19.23	19.16	19.25	0	
	1	24	19.17	19.18	19.13	0	1		14		19.37	19.13	19.13	0	
	12	0	19.23	19.32	19.33	0	8		0		19.15	19.30	19.25	0	
	12	6	19.28	19.26	19.18	0	8		3		19.23	19.30	19.16	0	
	12	13	19.29	19.12	19.17	0	8		7		19.34	19.01	19.17	0	
	25	0	19.11	19.18	19.23	0	15		0		19.23	19.22	19.20	0	
	1	0	19.12	19.17	19.39	0	64QAM		1		0	19.11	19.11	19.31	0
	1	12	19.18	19.17	19.29	0			1	7	19.27	19.11	19.30	0	
	1	24	19.20	19.23	19.10	0			1	14	19.19	19.11	19.10	0	
	12	0	19.12	19.25	19.35	0			8	0	19.36	19.41	19.26	0	
	12	6	19.25	19.38	19.18	0			8	3	19.27	19.23	19.16	0	
	12	13	19.29	19.09	19.14	0			8	7	19.28	19.10	19.15	0	
	25	0	19.32	19.15	19.36	0			15	0	19.20	19.18	19.16	0	
	BW	MCS Index	RB Size	RB Offset	Low	Mid			High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low
Channel			26697	26865	27033	Channel		26677	26865				27033		
Frequency (MHz)			814.7	831.5	848.3	Frequency (MHz)		812.7	831.5				848.3		
1.4M	QPSK	1	0	19.13	19.32	19.42	0	0.7M	QPSK	1	0	19.13	19.32	19.42	0
		1	2	19.33	19.23	19.30	0			1	2	19.33	19.23	19.30	0
		1	5	19.28	19.23	19.16	0			1	5	19.28	19.23	19.16	0
		3	0	19.35	19.37	19.37	0			3	0	19.35	19.37	19.37	0
		3	1	19.32	19.40	19.32	0			3	1	19.32	19.40	19.32	0
		3	3	19.27	19.22	19.14	0			3	3	19.27	19.22	19.14	0
		6	0	19.34	19.25	19.32	0			6	0	19.34	19.25	19.32	0
		1	0	19.08	19.17	19.25	0			16QAM	1	0	19.08	19.17	19.25
	1	2	19.34	19.23	19.23	0	1		2		19.34	19.23	19.23	0	
	1	5	19.23	19.10	19.01	0	1		5		19.23	19.10	19.01	0	
	3	0	19.24	19.31	19.37	0	3		0		19.24	19.31	19.37	0	
	3	1	19.15	19.24	19.27	0	3		1		19.15	19.24	19.27	0	
	3	3	19.34	19.11	19.30	0	3		3		19.34	19.11	19.30	0	
	6	0	19.27	19.09	19.10	0	6		0		19.27	19.09	19.10	0	
	1	0	19.07	19.29	19.42	0	64QAM		1		0	19.07	19.29	19.42	0
	1	2	19.29	19.32	19.30	0			1	2	19.29	19.32	19.30	0	
	1	5	19.30	19.22	19.08	0			1	5	19.30	19.22	19.08	0	
	3	0	19.34	19.29	19.29	0			3	0	19.34	19.29	19.29	0	
	3	1	19.15	19.39	19.24	0			3	1	19.15	19.39	19.24	0	
	3	3	19.25	19.12	19.23	0			3	3	19.25	19.12	19.23	0	
	6	0	19.25	19.30	19.29	0			6	0	19.25	19.30	19.29	0	
	6	0	19.25	19.30	19.29	0			6	0	19.25	19.30	19.29	0	

FCC SAR Test Report

LTE Band 30															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset		Mid		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			27710					Channel		27685	27710	27735	
		Frequency (MHz)			2310.0					Frequency (MHz)		2307.5	2310.0	2312.5	
10M	QPSK	1	0		22.13		0	5M	QPSK	1	0	22.04	22.08	22.02	0
		1	24		22.11		0			1	12	22.04	22.04	22.00	0
		1	49		22.10		0			1	24	21.90	22.10	21.97	0
		25	0		21.18		1			12	0	21.07	21.09	20.92	1
		25	12		21.17		1			12	6	20.96	21.10	21.10	1
		25	25		21.15		1			12	13	21.09	21.15	21.09	1
		50	0		21.14		1			25	0	21.09	21.05	21.05	1
		16QAM	1	0		21.01				1	16QAM	1	0	20.81	20.94
	1		24		21.03		1		1	12		21.02	20.99	20.91	1
	1		49		21.10		1		1	24		20.98	21.00	20.97	1
	25		0		20.16		2		12	0		20.03	20.10	19.92	2
	25		12		20.11		2		12	6		19.98	20.10	19.96	2
	25		25		20.12		2		12	13		20.02	20.04	19.96	2
	50		0		20.09		2		25	0		19.93	20.01	19.99	2
	64QAM		1	0		20.10			2	64QAM		1	0	19.96	20.03
		1	24		20.03		2		1		12	19.97	20.04	19.93	2
		1	49		20.10		2		1		24	20.02	20.05	19.98	2
		25	0		19.13		3		12		0	19.06	19.06	18.97	3
		25	12		19.16		3		12		6	19.10	19.10	19.05	3
		25	25		19.15		3		12		13	19.14	19.11	19.00	3
		50	0		19.13		3		25		0	19.07	18.99	18.96	3

LTE Band 30															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset		Mid		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			27710					Channel		27685	27710	27735	
		Frequency (MHz)			2310.0					Frequency (MHz)		2307.5	2310.0	2312.5	
10M	QPSK	1	0		16.95		0	5M	QPSK	1	0	16.77	16.90	16.87	0
		1	24		16.88		0			1	12	16.65	16.82	16.69	0
		1	49		16.88		0			1	24	16.88	16.86	16.77	0
		25	0		16.94		0			12	0	16.87	16.84	16.81	0
		25	12		16.95		0			12	6	16.76	16.91	16.79	0
		25	25		16.92		0			12	13	16.76	16.89	16.81	0
		50	0		16.92		0			25	0	16.70	16.87	16.88	0
		16QAM	1	0		16.94				0	16QAM	1	0	16.81	16.78
	1		24		16.86		0		1	12		16.70	16.75	16.71	0
	1		49		16.88		0		1	24		16.66	16.82	16.81	0
	25		0		16.92		0		12	0		16.78	16.79	16.80	0
	25		12		16.89		0		12	6		16.86	16.80	16.70	0
	25		25		16.85		0		12	13		16.88	16.90	16.60	0
	50		0		16.87		0		25	0		16.73	16.74	16.74	0
	64QAM		1	0		16.86			0	64QAM		1	0	16.82	16.83
		1	24		16.83		0		1		12	16.76	16.84	16.79	0
		1	49		16.85		0		1		24	16.66	16.72	16.74	0
		25	0		16.86		0		12		0	16.74	16.90	16.69	0
		25	12		16.92		0		12		6	16.81	16.91	16.78	0
		25	25		16.92		0		12		13	16.63	16.92	16.73	0
		50	0		16.90		0		25		0	16.74	16.86	16.80	0

FCC SAR Test Report

LTE Band 38															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37850	38000	38150				Channel		37825	38000	38175	
		Frequency (MHz)		2580	2595	2610				Frequency (MHz)		2577.5	2595	2612.5	
20M	QPSK	1	0	23.77	23.85	23.80	0	15M	QPSK	1	0	23.70	23.75	23.70	0
		1	50	23.75	23.82	23.79	0			1	37	23.68	23.78	23.72	0
		1	99	23.81	23.80	23.76	0			1	74	23.76	23.79	23.67	0
		50	0	22.80	22.86	22.70	1			36	0	22.71	22.81	22.59	1
		50	25	22.73	22.79	22.64	1			36	19	22.66	22.70	22.63	1
		50	50	22.72	22.71	22.69	1			36	39	22.65	22.69	22.59	1
		100	0	22.69	22.79	22.63	1			75	0	22.60	22.71	22.57	1
		1	0	22.69	22.79	22.71	1		16QAM	1	0	22.67	22.73	22.71	1
	16QAM	1	50	22.73	22.80	22.73	1			1	37	22.68	22.67	22.63	1
		1	99	22.74	22.74	22.66	1			1	74	22.74	22.64	22.71	1
		50	0	21.80	21.79	21.58	2			36	0	21.62	21.81	21.50	2
		50	25	21.67	21.79	21.56	2			36	19	21.54	21.69	21.61	2
		50	50	21.62	21.66	21.67	2			36	39	21.56	21.61	21.61	2
		100	0	21.61	21.77	21.63	2			75	0	21.53	21.64	21.49	2
		1	0	21.70	21.83	21.76	2		64QAM	1	0	21.70	21.68	21.68	2
	64QAM	1	50	21.71	21.74	21.71	2			1	37	21.67	21.69	21.65	2
		1	99	21.77	21.74	21.74	2			1	74	21.72	21.68	21.65	2
		50	0	20.80	20.83	20.59	3			36	0	20.60	20.67	20.56	3
		50	25	20.69	20.71	20.55	3			36	19	20.58	20.71	20.56	3
		50	50	20.62	20.69	20.66	3			36	39	20.67	20.62	20.62	3
		100	0	20.68	20.76	20.61	3			75	0	20.63	20.78	20.46	3
		1	0	20.68	20.76	20.61	3			75	0	20.63	20.78	20.46	3
10M	QPSK	1	0	23.69	23.69	23.70	0	5M	QPSK	1	0	23.61	23.61	23.59	0
		1	24	23.70	23.78	23.70	0			1	12	23.67	23.62	23.46	0
		1	49	23.73	23.75	23.64	0			1	24	23.70	23.78	23.53	0
		25	0	22.74	22.66	22.60	1			12	0	22.75	22.79	22.43	1
		25	12	22.61	22.77	22.52	1			12	6	22.52	22.67	22.45	1
		25	25	22.67	22.53	22.53	1			12	13	22.67	22.66	22.52	1
		50	0	22.49	22.63	22.56	1			25	0	22.57	22.68	22.42	1
		1	0	22.50	22.69	22.64	1		16QAM	1	0	22.51	22.51	22.59	1
	16QAM	1	24	22.48	22.67	22.56	1			1	12	22.66	22.68	22.56	1
		1	49	22.70	22.61	22.66	1			1	24	22.64	22.70	22.52	1
		25	0	21.77	21.71	21.44	2			12	0	21.73	21.80	21.44	2
		25	12	21.57	21.55	21.45	2			12	6	21.66	21.53	21.51	2
		25	25	21.58	21.50	21.56	2			12	13	21.61	21.48	21.50	2
		50	0	21.44	21.46	21.53	2			25	0	21.51	21.55	21.54	2
		1	0	21.64	21.65	21.65	2		64QAM	1	0	21.50	21.59	21.67	2
	64QAM	1	24	21.62	21.57	21.58	2			1	12	21.66	21.62	21.71	2
		1	49	21.60	21.63	21.48	2			1	24	21.59	21.76	21.53	2
		25	0	20.53	20.65	20.60	3			12	0	20.62	20.78	20.48	3
		25	12	20.59	20.69	20.55	3			12	6	20.46	20.47	20.51	3
		25	25	20.58	20.49	20.43	3			12	13	20.56	20.54	20.41	3
		50	0	20.42	20.57	20.41	3			25	0	20.48	20.74	20.37	3

FCC SAR Test Report

LTE Band 38															
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37850	38000	38150				Channel		37825	38000	38175	
		Frequency (MHz)		2580	2595	2610				Frequency (MHz)		2577.5	2595	2612.5	
20M	QPSK	1	0	21.38	21.48	21.47	0	15M	QPSK	1	0	21.34	21.44	21.46	0
		1	50	21.36	21.46	21.45	0			1	37	21.27	21.37	21.39	0
		1	99	21.23	21.33	21.32	0			1	74	21.22	21.25	21.31	0
		50	0	21.30	21.40	21.39	0			36	0	21.27	21.34	21.29	0
		50	25	21.36	21.46	21.45	0			36	19	21.28	21.36	21.42	0
		50	50	21.30	21.40	21.39	0			36	39	21.29	21.38	21.39	0
		100	0	21.33	21.43	21.42	0			75	0	21.31	21.34	21.38	0
		1	0	21.36	21.47	21.44	0		16QAM	1	0	21.33	21.41	21.44	0
	16QAM	1	50	21.25	21.36	21.33	0			1	37	21.16	21.33	21.29	0
		1	99	21.20	21.31	21.28	0			1	74	21.11	21.30	21.20	0
		50	0	21.35	21.46	21.43	0			36	0	21.34	21.37	21.33	0
		50	25	21.29	21.40	21.37	0			36	19	21.20	21.30	21.31	0
		50	50	21.18	21.29	21.26	0			36	39	21.17	21.29	21.18	0
		100	0	21.30	21.41	21.38	0			75	0	21.30	21.41	21.28	0
	64QAM	1	0	21.21	21.41	21.33	0		64QAM	1	0	21.21	21.35	21.32	0
		1	50	21.03	21.23	21.14	0			1	37	20.98	21.18	21.04	0
		1	99	20.91	21.11	21.02	0			1	74	20.90	21.06	20.96	0
		50	0	21.01	21.21	21.12	0			36	0	20.99	21.13	21.05	0
		50	25	20.95	21.15	21.06	0			36	19	20.88	21.06	21.03	0
		50	50	20.89	21.09	21.00	0			36	39	20.84	20.99	20.93	0
		100	0	20.93	21.13	21.04	0			75	0	20.92	21.03	20.94	0
		1	0	21.33	21.41	21.37	0	10M	QPSK	1	0	21.31	21.44	21.46	0
10M	QPSK	1	24	21.29	21.46	21.45	0			1	12	21.26	21.36	21.37	0
		1	49	21.20	21.33	21.31	0			1	24	21.13	21.23	21.27	0
		25	0	21.29	21.35	21.30	0			12	0	21.30	21.38	21.33	0
		25	12	21.32	21.42	21.38	0			12	6	21.36	21.44	21.44	0
		25	25	21.27	21.32	21.30	0			12	13	21.20	21.34	21.30	0
		50	0	21.32	21.38	21.34	0			25	0	21.33	21.39	21.38	0
	16QAM	1	0	21.33	21.38	21.40	0		16QAM	1	0	21.30	21.45	21.34	0
		1	24	21.18	21.35	21.23	0			1	12	21.18	21.35	21.28	0
		1	49	21.14	21.29	21.25	0			1	24	21.15	21.21	21.22	0
		25	0	21.34	21.37	21.36	0			12	0	21.28	21.44	21.33	0
		25	12	21.24	21.30	21.36	0			12	6	21.22	21.31	21.29	0
		25	25	21.13	21.27	21.22	0			12	13	21.11	21.21	21.19	0
	64QAM	50	0	21.28	21.39	21.29	0			25	0	21.23	21.38	21.34	0
		1	0	21.16	21.36	21.26	0		64QAM	1	0	21.13	21.37	21.27	0
		1	24	20.98	21.22	21.06	0			1	12	20.95	21.20	21.09	0
		1	49	20.87	21.10	20.98	0			1	24	20.90	21.05	20.99	0
		25	0	20.92	21.16	21.11	0			12	0	20.94	21.14	21.08	0
		25	12	20.91	21.10	21.01	0			12	6	20.90	21.14	20.97	0
		25	25	20.86	21.06	20.97	0			12	13	20.85	21.02	20.94	0
		50	0	20.83	21.13	21.01	0			25	0	20.91	21.11	20.95	0

FCC SAR Test Report

LTE Band 41																			
EUT without Power Reduction (P-Sensor NOT Triggered)																			
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39750	40185	40620	41055	41490				Channel		39725	40173	40620	41068	41515	
		Frequency (MHz)		2506.0	2549.5	2593.0	2636.5	2680.0				Frequency (MHz)		2503.5	2548.3	2593.0	2637.8	2682.5	
20M	QPSK	1	0	23.79	23.80	23.72	23.64	23.46	0	15M	QPSK	1	0	23.77	23.76	23.63	23.61	23.38	0
		1	50	23.64	23.75	23.51	23.51	23.33	0			1	37	23.61	23.75	23.47	23.47	23.27	0
		1	99	23.70	23.68	23.51	23.45	23.13	0			1	74	23.70	23.67	23.51	23.45	23.13	0
		50	0	22.85	22.96	22.75	22.69	22.54	1			36	0	22.68	22.93	22.70	22.64	22.51	1
		50	25	22.84	22.94	22.69	22.67	22.53	1			36	19	22.84	22.90	22.59	22.61	22.51	1
		50	50	22.83	22.84	22.58	22.60	22.40	1			36	39	22.77	22.75	22.49	22.50	22.30	1
		100	0	22.74	22.77	22.67	22.65	22.41	1			75	0	22.71	22.70	22.58	22.64	22.36	1
		1	0	22.72	22.79	22.62	22.59	22.44	1		16QAM	1	0	22.73	22.76	22.67	22.57	22.45	1
	16QAM	1	50	22.54	22.68	22.42	22.48	22.23	1			1	37	22.58	22.67	22.46	22.41	22.33	1
		1	99	22.66	22.59	22.42	22.36	22.04	1			1	74	22.63	22.64	22.46	22.45	22.07	1
		50	0	21.75	21.96	21.75	21.61	21.50	2			36	0	21.75	21.88	21.70	21.66	21.41	2
		50	25	21.83	21.89	21.61	21.66	21.47	2			36	19	21.84	21.90	21.66	21.62	21.48	2
		50	50	21.82	21.84	21.52	21.55	21.37	2			36	39	21.81	21.82	21.55	21.50	21.30	2
		100	0	21.73	21.70	21.62	21.56	21.40	2			75	0	21.70	21.76	21.60	21.65	21.37	2
		1	0	21.76	21.73	21.62	21.61	21.43	2		64QAM	1	0	21.71	21.78	21.62	21.54	21.36	2
	64QAM	1	50	21.57	21.71	21.41	21.51	21.27	2			1	37	21.57	21.71	21.51	21.42	21.23	2
		1	99	21.65	21.61	21.49	21.45	21.08	2			1	74	21.65	21.62	21.41	21.36	21.09	2
		50	0	20.69	20.89	20.72	20.60	20.44	3			36	0	20.72	20.94	20.73	20.60	20.51	3
		50	25	20.77	20.85	20.61	20.61	20.50	3			36	19	20.77	20.93	20.62	20.57	20.44	3
		50	50	20.73	20.81	20.55	20.58	20.33	3			36	39	20.79	20.75	20.49	20.50	20.39	3
		100	0	20.68	20.76	20.61	20.62	20.36	3			75	0	20.65	20.69	20.64	20.64	20.38	3
10M	QPSK	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)	5M	QPSK	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39700	40160	40620	41080	41540				Channel		39675	40148	40620	41093	41565	
		Frequency (MHz)		2501.0	2547.0	2593.0	2639.0	2685.0				Frequency (MHz)		2498.5	2545.8	2593.0	2640.3	2687.5	
		1	0	23.64	23.60	23.61	23.54	23.31	0			1	0	23.60	23.69	23.66	23.52	23.44	0
		1	24	23.53	23.69	23.44	23.43	23.25	0			1	12	23.54	23.70	23.51	23.38	23.28	0
		1	49	23.62	23.61	23.43	23.37	22.93	0			1	24	23.65	23.61	23.37	23.37	23.01	0
		25	0	22.76	22.85	22.61	22.66	22.43	1			12	0	22.65	22.92	22.60	22.53	22.41	1
		25	12	22.71	22.81	22.52	22.54	22.44	1			12	6	22.69	22.90	22.58	22.60	22.42	1
	16QAM	25	25	22.73	22.67	22.56	22.48	22.22	1			12	13	22.67	22.82	22.53	22.48	22.28	1
		50	0	22.58	22.66	22.65	22.51	22.28	1			25	0	22.70	22.75	22.54	22.55	22.31	1
		1	0	22.63	22.62	22.64	22.50	22.37	1		16QAM	1	0	22.69	22.66	22.63	22.52	22.43	1
		1	24	22.55	22.66	22.45	22.39	22.33	1			1	12	22.58	22.65	22.49	22.36	22.23	1
		1	49	22.67	22.60	22.45	22.34	21.93	1			1	24	22.67	22.58	22.35	22.39	22.03	1
		25	0	21.71	21.80	21.66	21.68	21.38	2			12	0	21.67	21.93	21.66	21.59	21.48	2
		25	12	21.81	21.84	21.55	21.59	21.41	2			12	6	21.67	21.84	21.53	21.61	21.38	2
		25	25	21.80	21.71	21.56	21.49	21.31	2			12	13	21.68	21.74	21.50	21.43	21.27	2
		50	0	21.55	21.71	21.63	21.51	21.35	2			25	0	21.64	21.69	21.58	21.61	21.23	2
	64QAM	1	0	21.68	21.66	21.68	21.55	21.40	2		64QAM	1	0	21.61	21.73	21.62	21.59	21.40	2
		1	24	21.50	21.66	21.44	21.47	21.28	2			1	12	21.51	21.64	21.50	21.39	21.29	2
		1	49	21.64	21.61	21.40	21.30	20.94	2			1	24	21.66	21.59	21.45	21.39	21.05	2
		25	0	20.73	20.80	20.68	20.59	20.41	3			12	0	20.62	20.93	20.60	20.56	20.46	3
		25	12	20.73	20.76	20.53	20.51	20.43	3			12	6	20.66	20.86	20.61	20.52	20.44	3
		25	25	20.82	20.73	20.49	20.46	20.30	3			12	13	20.71	20.83	20.48	20.50	20.31	3
		50	0	20.61	20.66	20.67	20.58	20.27	3			25	0	20.63	20.71	20.54	20.55	20.23	3

FCC SAR Test Report

LTE Band 41																			
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)																			
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39750	40185	40620	41055	41490				Channel		39725	40173	40620	41088	41515	
		Frequency (MHz)		2506.0	2549.5	2593.0	2636.5	2680.0				Frequency (MHz)		2503.5	2548.3	2593.0	2637.8	2682.5	
20M	QPSK	1	0	16.95	16.98	16.92	16.84	16.68	0	15M	QPSK	1	0	16.92	16.97	16.82	16.75	16.58	0
		1	50	16.75	16.94	16.70	16.69	16.54	0			1	37	16.68	16.85	16.63	16.69	16.52	0
		1	99	16.81	16.88	16.71	16.64	16.33	0			1	74	16.74	16.85	16.64	16.58	16.33	0
		50	0	16.95	16.96	16.95	16.94	16.65	0			36	0	16.85	16.94	16.94	16.89	16.60	0
		50	25	16.92	16.93	16.88	16.87	16.68	0			36	19	16.91	16.89	16.82	16.79	16.64	0
		50	50	16.94	16.84	16.77	16.85	16.60	0			36	39	16.93	16.81	16.77	16.85	16.57	0
		100	0	16.91	16.97	16.87	16.87	16.57	0			75	0	16.90	16.95	16.87	16.82	16.54	0
		1	0	16.95	16.91	16.82	16.83	16.64	0		16QAM	1	0	16.89	16.90	16.92	16.83	16.66	0
	16QAM	1	50	16.73	16.94	16.66	16.63	16.45	0			1	37	16.68	16.94	16.70	16.63	16.45	0
		1	99	16.80	16.86	16.69	16.56	16.28	0			1	74	16.71	16.85	16.62	16.60	16.27	0
		50	0	16.93	16.88	16.85	16.91	16.60	0			36	0	16.93	16.93	16.88	16.94	16.64	0
		50	25	16.88	16.92	16.81	16.83	16.66	0			36	19	16.83	16.86	16.83	16.86	16.58	0
		50	50	16.85	16.81	16.72	16.78	16.57	0			36	39	16.94	16.84	16.72	16.82	16.58	0
		100	0	16.81	16.88	16.84	16.84	16.48	0			75	0	16.91	16.90	16.84	16.81	16.56	0
		1	0	16.89	16.91	16.86	16.75	16.61	0		64QAM	1	0	16.93	16.91	16.89	16.83	16.66	0
	64QAM	1	50	16.71	16.94	16.60	16.62	16.44	0			1	37	16.74	16.91	16.64	16.63	16.51	0
		1	99	16.79	16.78	16.69	16.55	16.27	0			1	74	16.75	16.78	16.69	16.59	16.27	0
		50	0	16.89	16.90	16.90	16.84	16.62	0			36	0	16.86	16.90	16.86	16.87	16.57	0
		50	25	16.87	16.91	16.88	16.84	16.65	0			36	19	16.86	16.91	16.86	16.85	16.58	0
		50	50	16.84	16.78	16.77	16.81	16.59	0			36	39	16.91	16.74	16.71	16.85	16.52	0
		100	0	16.84	16.90	16.81	16.78	16.47	0			75	0	16.91	16.93	16.83	16.83	16.54	0
10M	QPSK	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)	5M	QPSK	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39700	40160	40620	41080	41540				Channel		39675	40148	40620	41093	41565	
		Frequency (MHz)		2501.0	2547.0	2593.0	2639.0	2685.0				Frequency (MHz)		2498.5	2545.8	2593.0	2640.3	2687.5	
		1	0	16.83	16.91	16.79	16.83	16.54	0			1	0	16.78	16.85	16.86	16.75	16.54	0
		1	24	16.61	16.85	16.58	16.58	16.34	0			1	12	16.66	16.87	16.50	16.53	16.39	0
		1	49	16.62	16.73	16.57	16.64	16.20	0			1	24	16.71	16.77	16.53	16.60	16.28	0
		25	0	16.82	16.84	16.84	16.84	16.54	0			12	0	16.81	16.87	16.83	16.79	16.53	0
		25	12	16.82	16.80	16.86	16.79	16.54	0			12	6	16.78	16.78	16.77	16.80	16.56	0
	16QAM	25	25	16.85	16.68	16.61	16.73	16.46	0			12	13	16.83	16.84	16.70	16.76	16.49	0
		50	0	16.90	16.89	16.79	16.79	16.45	0			25	0	16.87	16.88	16.77	16.69	16.52	0
		1	0	16.78	16.82	16.81	16.78	16.52	0		16QAM	1	0	16.75	16.85	16.83	16.79	16.58	0
		1	24	16.61	16.81	16.53	16.56	16.36	0			1	12	16.71	16.84	16.51	16.55	16.44	0
		1	49	16.69	16.78	16.57	16.56	16.18	0			1	24	16.61	16.86	16.52	16.54	16.21	0
		25	0	16.87	16.80	16.86	16.86	16.54	0			12	0	16.75	16.83	16.77	16.81	16.57	0
		25	12	16.84	16.82	16.83	16.80	16.56	0			12	6	16.84	16.81	16.86	16.85	16.61	0
		25	25	16.94	16.70	16.59	16.67	16.49	0			12	13	16.77	16.78	16.77	16.73	16.50	0
		50	0	16.81	16.84	16.80	16.76	16.50	0			25	0	16.91	16.84	16.72	16.69	16.47	0
	64QAM	1	0	16.86	16.88	16.80	16.78	16.57	0		64QAM	1	0	16.75	16.83	16.89	16.74	16.51	0
		1	24	16.65	16.80	16.56	16.49	16.34	0			1	12	16.70	16.85	16.60	16.59	16.43	0
		1	49	16.61	16.75	16.52	16.60	16.20	0			1	24	16.62	16.82	16.59	16.59	16.22	0
		25	0	16.79	16.87	16.82	16.80	16.56	0			12	0	16.81	16.88	16.84	16.80	16.55	0
		25	12	16.89	16.74	16.78	16.75	16.52	0			12	6	16.84	16.87	16.76	16.82	16.56	0
		25	25	16.94	16.68	16.68	16.75	16.48	0			12	13	16.79	16.75	16.68	16.69	16.56	0
		50	0	16.82	16.89	16.82	16.79	16.44	0			25	0	16.88	16.81	16.69	16.69	16.56	0

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LTE Band 66																	
EUT without Power Reduction (P-Sensor NOT Triggered)																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
		Channel		132072	132322	132572				Channel		132047	132322	132597			
		Frequency (MHz)		1720.0	1745.0	1770.0				Frequency (MHz)		1717.5	1745.0	1772.5			
20M	QPSK	1	0	23.69	23.75	23.72	0	15M	QPSK	1	0	23.60	23.65	23.69	0		
		1	50	23.49	23.54	23.44	0			1	37	23.40	23.48	23.40	0		
		1	99	23.50	23.67	23.46	0			1	74	23.44	23.62	23.40	0		
		50	0	22.57	22.67	22.60	1			36	0	22.51	22.59	22.57	1		
		50	25	22.48	22.58	22.54	1			36	19	22.44	22.56	22.51	1		
		50	50	22.51	22.49	22.39	1			36	39	22.43	22.47	22.30	1		
		100	0	22.47	22.59	22.57	1			75	0	22.45	22.55	22.50	1		
		16QAM	1	0	22.59	22.67	22.70			1	16QAM	1	0	22.51	22.63	22.63	1
	1		50	22.42	22.50	22.34	1		1	37		22.34	22.39	22.34	1		
	1		99	22.46	22.61	22.39	1		1	74		22.36	22.65	22.37	1		
	50		0	21.50	21.67	21.51	2		36	0		21.45	21.62	21.56	2		
	50		25	21.42	21.48	21.48	2		36	19		21.39	21.51	21.44	2		
	50		50	21.51	21.47	21.34	2		36	39		21.41	21.36	21.31	2		
	100		0	21.41	21.57	21.57	2		75	0		21.36	21.45	21.47	2		
	64QAM	1	0	21.69	21.70	21.66	2		64QAM	1	0	21.64	21.72	21.59	2		
		1	50	21.45	21.54	21.39	2			1	37	21.30	21.43	21.36	2		
		1	99	21.48	21.58	21.41	2			1	74	21.37	21.53	21.40	2		
		50	0	20.57	20.67	20.59	3			36	0	20.44	20.52	20.52	3		
		50	25	20.39	20.58	20.52	3			36	19	20.29	20.45	20.48	3		
		50	50	20.45	20.46	20.35	3			36	39	20.44	20.34	20.26	3		
		100	0	20.44	20.51	20.56	3			75	0	20.44	20.45	20.40	3		
	BW	MCS Index	RB Size	RB Offset	Low	Mid	High		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
			Channel		132022	132322	132622					Channel		131997	132322	132647	
			Frequency (MHz)		1715.0	1745.0	1775.0					Frequency (MHz)		1712.5	1745.0	1777.5	
10M	QPSK	1	0	23.52	23.68	23.55	0	5M	QPSK	1	0	23.60	23.64	23.53	0		
		1	24	23.32	23.39	23.25	0			1	12	23.36	23.40	23.08	0		
		1	49	23.33	23.49	23.41	0			1	24	23.41	23.57	23.24	0		
		25	0	22.48	22.58	22.40	1			12	0	22.39	22.61	22.47	1		
		25	12	22.28	22.43	22.40	1			12	6	22.37	22.49	22.43	1		
		25	25	22.35	22.30	22.27	1			12	13	22.29	22.35	22.17	1		
		50	0	22.39	22.43	22.35	1			25	0	22.30	22.48	22.42	1		
		16QAM	1	0	22.43	22.69	22.68			1	16QAM	1	0	22.53	22.64	22.55	1
	1		24	22.39	22.38	22.37	1		1	12		22.20	22.36	22.34	1		
	1		49	22.35	22.43	22.13	1		1	24		22.33	22.47	22.27	1		
	25		0	21.40	21.61	21.35	2		12	0		21.48	21.42	21.48	2		
	25		12	21.37	21.40	21.42	2		12	6		21.31	21.54	21.32	2		
	25		25	21.25	21.38	21.23	2		12	13		21.41	21.31	21.23	2		
	50		0	21.18	21.47	21.43	2		25	0		21.28	21.37	21.48	2		
	64QAM	1	0	21.58	21.47	21.63	2		64QAM	1	0	21.63	21.55	21.58	2		
		1	24	21.33	21.31	21.40	2			1	12	21.26	21.42	21.19	2		
		1	49	21.32	21.45	21.18	2			1	24	21.32	21.57	21.34	2		
		25	0	20.43	20.59	20.41	3			12	0	20.52	20.45	20.40	3		
		25	12	20.35	20.43	20.47	3			12	6	20.29	20.35	20.42	3		
		25	25	20.29	20.30	20.23	3			12	13	20.40	20.34	20.20	3		
		50	0	20.33	20.41	20.29	3			25	0	20.28	20.42	20.36	3		
	BW	MCS Index	RB Size	RB Offset	Low	Mid	High		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
			Channel		131987	132322	132657					Channel		131979	132322	132665	
			Frequency (MHz)		1711.5	1745.5	1778.5					Frequency (MHz)		1710.7	1745.0	1779.3	
3M	QPSK	1	0	23.52	23.56	23.47	0	1.4M	QPSK	1	0	23.47	23.66	23.63	0		
		1	7	23.32	23.36	23.32	0			1	2	23.29	23.39	23.39	0		
		1	14	23.35	23.60	23.30	0			1	5	23.34	23.47	23.28	0		
		8	0	22.45	22.61	22.44	1			3	0	23.43	23.50	23.58	0		
		8	3	22.29	22.41	22.44	1			3	1	23.36	23.51	23.45	0		
		8	7	22.29	22.43	22.32	1			3	3	23.40	23.34	23.27	0		
		15	0	22.36	22.45	22.50	1			6	0	22.42	22.40	22.52	1		
		16QAM	1	0	22.48	22.53	22.48			1	16QAM	1	0	22.54	22.57	22.57	1
	1		7	22.43	22.34	22.24	1		1	2		22.25	22.31	22.27	1		
	1		14	22.20	22.43	22.25	1		1	5		22.30	22.57	22.17	1		
	8		0	21.37	21.47	21.44	2		3	0		22.54	22.46	22.37	1		
	8		3	21.27	21.35	21.35	2		3	1		22.26	22.55	22.33	1		
	8		7	21.40	21.34	21.29	2		3	3		22.37	22.32	22.19	1		
	15		0	21.23	21.44	21.40	2		6	0		21.30	21.49	21.54	2		
	64QAM	1	0	21.54	21.53	21.50	2		64QAM	1	0	21.48	21.49	21.54	2		
		1	7	21.31	21.40	21.34	2			1	2	21.28	21.34	21.31	2		
		1	14	21.42	21.41	21.33	2			1	5	21.24	21.55	21.29	2		
		8	0	20.41	20.41	20.32	3			3	0	21.43	21.47	21.51	2		
		8	3	20.42	20.35	20.47	3			3	1	21.30	21.47	21.41	2		
		8	7	20.41	20.28	20.18	3			3	3	21.39	21.34	21.31	2		
		15	0	20.31	20.39	20.42	3			6	0	20.36	20.39	20.35	3		

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LTE Band 66																	
EUT with Power Reduction (P-Sensor Triggered & Laptop Mode)																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
		Channel		132072	132322	132572				Channel		132047	132322	132597			
		Frequency (MHz)		1720.0	1745.0	1770.0				Frequency (MHz)		1717.5	1745.0	1772.5			
20M	QPSK	1	0	19.29	19.45	19.48	0	15M	QPSK	1	0	19.27	19.35	19.38	0		
		1	50	19.26	19.04	19.20	0			1	37	19.16	18.95	19.18	0		
		1	99	19.16	19.29	19.35	0			1	74	19.07	19.19	19.29	0		
		50	0	19.33	19.28	19.41	0			36	0	19.28	19.24	19.31	0		
		50	25	19.36	19.22	19.27	0			36	19	19.30	19.12	19.17	0		
		50	50	19.37	19.19	19.26	0			36	39	19.35	19.11	19.22	0		
		100	0	19.33	19.20	19.37	0			75	0	19.32	19.12	19.33	0		
		16QAM	1	0	19.22	19.41	19.47			0	16QAM	1	0	19.17	19.38	19.34	0
	1		50	19.21	19.00	19.10	0		1	37		19.10	18.96	19.14	0		
	1		99	19.15	19.24	19.29	0		1	74		19.10	19.22	19.25	0		
	50		0	19.23	19.24	19.39	0		36	0		19.26	19.18	19.35	0		
	50		25	19.28	19.19	19.21	0		36	19		19.25	19.14	19.09	0		
	50		50	19.29	19.10	19.19	0		36	39		19.19	19.13	19.12	0		
	100		0	19.26	19.14	19.35	0		75	0		19.18	19.04	19.28	0		
	64QAM		1	0	19.22	19.37	19.46		0	64QAM		1	0	19.14	19.25	19.34	0
		1	50	19.26	18.98	19.18	0		1		37	19.18	18.97	19.09	0		
		1	99	19.14	19.27	19.34	0		1		74	19.10	19.19	19.27	0		
		50	0	19.29	19.20	19.31	0		36		0	19.27	19.19	19.31	0		
		50	25	19.32	19.15	19.24	0		36		19	19.27	19.20	19.21	0		
		50	50	19.29	19.10	19.25	0		36		39	19.26	19.09	19.15	0		
		100	0	19.30	19.10	19.32	0		75		0	19.20	19.07	19.28	0		
		BW	MCS Index	RB Size	RB Offset	Low	Mid		High		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid
	Channel			132022	132322	132622	Channel		131997	132322				132647			
	Frequency (MHz)			1715.0	1745.0	1775.0	Frequency (MHz)		1712.5	1745.0				1777.5			
10M	QPSK	1	0	19.26	19.32	19.26	0	5M	QPSK	1	0	19.18	19.38	19.27	0		
		1	24	19.10	19.03	19.03	0			1	12	19.13	18.95	18.90	0		
		1	49	19.09	19.21	19.13	0			1	24	19.00	19.08	19.16	0		
		25	0	19.26	19.23	19.36	0			12	0	19.27	19.21	19.10	0		
		25	12	19.30	19.20	19.09	0			12	6	19.23	19.15	19.03	0		
		25	25	19.27	18.99	19.02	0			12	13	19.31	18.97	18.99	0		
		50	0	19.15	19.10	19.27	0			25	0	19.17	18.98	19.20	0		
		16QAM	1	0	19.10	19.25	19.39			0	16QAM	1	0	19.13	19.34	19.25	0
	1		24	19.10	18.96	19.00	0		1	12		18.98	18.96	19.15	0		
	1		49	18.94	19.06	19.09	0		1	24		18.92	19.08	19.21	0		
	25		0	19.13	19.14	19.21	0		12	0		19.13	19.13	19.14	0		
	25		12	19.17	19.05	19.21	0		12	6		19.27	19.07	19.02	0		
	25		25	19.23	18.99	19.05	0		12	13		19.23	18.99	18.95	0		
	50		0	19.11	19.09	19.13	0		25	0		19.16	19.07	19.19	0		
	64QAM		1	0	19.20	19.25	19.40		0	64QAM		1	0	19.04	19.40	19.23	0
		1	24	19.13	18.82	19.15	0		1		12	19.26	18.97	19.01	0		
		1	49	18.97	19.01	19.16	0		1		24	19.15	19.17	19.11	0		
		25	0	19.13	19.13	19.27	0		12		0	19.04	19.17	19.39	0		
		25	12	19.34	19.10	19.14	0		12		6	19.15	18.96	19.07	0		
		25	25	19.23	19.01	19.04	0		12		13	19.27	19.05	19.13	0		
		50	0	19.11	19.09	19.17	0		25		0	19.19	19.08	19.22	0		
		BW	MCS Index	RB Size	RB Offset	Low	Mid		High		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid
	Channel			131987	132322	132657	Channel		131979	132322				132665			
	Frequency (MHz)			1711.5	1745.5	1778.5	Frequency (MHz)		1710.7	1745.0				1779.3			
3M	QPSK	1	0	19.19	19.27	19.35	0	1.4M	QPSK	1	0	19.26	19.30	19.29	0		
		1	7	19.22	18.88	19.07	0			1	2	19.14	18.87	19.12	0		
		1	14	19.10	19.25	19.21	0			1	5	19.08	19.06	19.16	0		
		8	0	19.17	19.19	19.36	0			3	0	19.23	19.15	19.28	0		
		8	3	19.19	19.17	19.15	0			3	1	19.18	19.06	19.22	0		
		8	7	19.24	19.10	19.22	0			3	3	19.17	19.08	19.12	0		
		15	0	19.31	19.10	19.22	0			6	0	19.26	19.13	19.15	0		
		16QAM	1	0	19.13	19.28	19.33			0	16QAM	1	0	19.18	19.17	19.39	0
	1		7	19.12	18.80	19.03	0		1	2		19.08	18.94	19.05	0		
	1		14	19.07	19.17	19.15	0		1	5		18.87	19.07	19.25	0		
	8		0	19.21	19.11	19.19	0		3	0		19.11	19.15	19.18	0		
	8		3	19.22	19.06	19.13	0		3	1		19.20	19.15	19.05	0		
	8		7	19.17	19.01	19.03	0		3	3		19.08	19.13	18.99	0		
	15		0	19.23	18.96	19.21	0		6	0		19.17	18.92	19.16	0		
	64QAM		1	0	19.10	19.19	19.40		0	64QAM		1	0	19.15	19.29	19.33	0
		1	7	19.08	18.85	19.03	0		1		2	19.12	18.86	19.08	0		
		1	14	18.94	19.10	19.19	0		1		5	19.00	19.11	19.15	0		
		8	0	19.05	19.22	19.24	0		3		0	19.09	19.12	19.11	0		
		8	3	19.14	19.02	18.95	0		3		1	19.25	19.00	19.11	0		
		8	7	19.24	19.01	19.11	0		3		3	19.13	18.96	19.07	0		
		15	0	19.24	19.07	19.28	0		6		0	19.27	18.96	19.17	0		

4.7 SAR Testing Results

4.7.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- (2) ≤ 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
- (3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

When SAR is not measured at the maximum power level allowed for production units, the measured SAR will be scaled to the maximum tune-up tolerance limit to determine compliance. The scaling factor for the tune-up power is defined as maximum tune-up limit (mW) / measured conducted power (mW). The reported SAR would be calculated by measured SAR x tune-up power scaling factor.

The SAR has been measured with highest transmission duty factor supported by the test mode tools for WLAN and/or Bluetooth. When the transmission duty factor could not achieve 100%, the reported SAR will be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up power. The scaling factor for the duty factor is defined as 100% / transmission duty cycle (%). The reported SAR would be calculated by measured SAR x tune-up power scaling factor x duty cycle scaling factor.

<KDB 941225 D01, 3G SAR Measurement Procedures>

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

<KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>

(1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; 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 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 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.

(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ 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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<Power Confirmation for SAR Test Exclusion for LTE Downlink CA>

According to KDB 941225 D05A, the uplink maximum output power below was measured with downlink CA active on the channel with highest measured maximum output power when downlink CA is inactive. The downlink SCC channel was paired with the uplink channel as normal operation. For intra-band contiguous CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing per section 5.4.1A of 3GPP TS36.521. For intra-band non-contiguous CA, the downlink channel spacing between the component carriers was set to maximum separation from PCC and remain fully within the downlink transmission band. For Inter-band CA, the SCC downlink channel was set to near the middle of its transmission band.

Power Measurements for Intra-Band Contiguous Downlink CA

CA Combination	PCC								SCC1				Power	
	LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	RB Size	RB Offset	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power (dBm)
EUT without Power Reduction (P-Sensor NOT Triggered)														
CA_41C	41	20	40185	2549.5	1	0	40185	2549.5	41	20	40383	2569.3	23.52	23.80

CA Combination	PCC								SCC1				Power	
	LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	RB Size	RB Offset	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power (dBm)
EUT with Power Reduction (P-Sensor Triggered)														
CA_41C	41	20	40185	2549.5	1	0	40185	2549.5	41	20	40383	2569.3	16.94	16.98

Power Measurements for Inter-Band Downlink CA

CA Combination	PCC								SCC1				SCC2				SCC3				SCC4				SCC2		
	LTE Band	BW (MHz)	LTE Band	LTE Band	LTE Band	LTE Band	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power (dBm)	
EUT without Power Reduction (P-Sensor NOT Triggered)																											
CA_2A29A	2	20	1910C	1900	1	0	1100	1980	29	10	9715	722.5														23.66	23.99
CA_2A46A	2	20	1910C	1900	1	0	1100	1980	46	20	50665	5537.5														23.71	23.99
CA_4A5A	4	20	20175	1732	1	0	2175	2132.5	5	10	2525	881.5														23.44	23.78
CA_4A13A	4	20	20175	1732	1	0	2175	2132.5	13	10	5230	751														23.51	23.78
CA_4A6A	4	20	20175	1732	1	0	2175	2132.5	46	20	50665	5537.5														23.25	23.78
CA_25A6A	25	20	2614C	1860	1	0	8140	1940	26	15	8865	876.5														23.68	23.72
CA_29A0A	30	10	2771C	2310	1	0	9820	2355	29	10	9715	722.5														21.86	22.13
CA_29A6A	66	20	13232	1745	1	0	66786	2145	29	10	9715	722.5														23.57	23.75
CA_14A6A6A	14	10	2333C	793	1	0	5330	763	66	20	66786	2145	66	20	67036	2170										23.62	23.81
CA_2A4A5A	2	20	1910C	1900	1	0	1100	1980	4	20	2175	2132.5	5	10	2525	881.5										23.57	23.99
CA_2A4A13A	2	20	1910C	1900	1	0	1100	1980	4	20	2175	2132.5	13	10	5230	751										23.65	23.99
CA_2A4A30A	2	20	1910C	1900	1	0	1100	1980	14	10	5330	763	30	10	9820	2355										23.47	23.99
CA_2A2A13A66A	2	20	1910C	1900	1	0	1100	1980	2	20	900	1960	13	10	5230	751	66	20	66786	2145						23.72	23.99
CA_2A13A66A6A	2	20	1910C	1900	1	0	1100	1980	13	10	5230	751	66	20	66786	2145	66	20	67036	2170						23.53	23.99
CA_2A13A66B	2	20	1910C	1900	1	0	1100	1980	13	10	5230	751	66	15	66786	2145	66	5	66879	2154.5						23.60	23.99
CA_2A13A66C	2	20	1910C	1900	1	0	1100	1980	13	10	5230	751	66	20	66786	2145	66	20	66984	2164.5						23.63	23.99
CA_2A13A66D	2	20	1910C	1900	1	0	1100	1980	13	10	5230	751	46	20	50665	5537.5	46	20	50863	5557.5	46	20	51061	5577.5	23.69	23.99	
CA_2A66D66A	2	20	1910C	1900	1	0	1100	1980	66	20	66786	2145	46	20	50665	5537.5	46	20	50863	5557.5	46	20	51061	5577.5	23.58	23.99	
CA_13A66D66A	13	10	2323C	782	1	24	5230	751	66	20	66786	2145	46	20	50665	5537.5	46	20	50863	5557.5	46	20	51061	5577.5	23.71	23.83	
CA_2A12A30A66A	2	20	1910C	1900	1	0	1100	1980	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145						23.68	23.99
CA_2A5B30A66A	2	20	1910C	1900	1	0	1100	1980	66	20	66786	2145	30	10	9820	2355	5	10	2450	874	5	10	2549	883.9	23.49	23.99	

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CA Combination	PCC								SCC1				SCC2				SCC3				SCC4				SCC2		
	LTE Band	BW (MHz)	LTE Band	LTE Band	LTE Band	LTE Band	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power. (dBm)	
EUT with Power Reduction (P-Sensor Triggered)																											
CA_2A29A	2	20	1910C	1900	1	0	1100	1980	29	10	9715	722.5													18.81	18.95	
CA_2A46A	2	20	1910C	1900	1	0	1100	1980	46	20	50665	5537.5													18.87	18.95	
CA_4A6A	4	20	20175	1732	1	0	2175	2132.5	5	10	2525	881.5													18.38	18.48	
CA_4A13A	4	20	20175	1732	1	0	2175	2132.5	13	10	5230	751													18.34	18.48	
CA_4A46A	4	20	20175	1732	1	0	2175	2132.5	46	20	50665	5537.5													18.43	18.48	
CA_25A6A	25	20	2614C	1860	1	0	8140	1940	26	15	8865	876.5													19.81	19.99	
CA_29A8A	30	10	2771C	2310	1	0	9820	2355	29	10	9715	722.5													16.72	16.95	
CA_29A6A	66	20	13257	1770	1	0	67036	2170	29	10	9715	722.5													19.33	19.48	
CA_14A6A66A	14	10	2333C	793	1	0	5330	763	66	20	66786	2145	66	20	67036	2170									19.29	19.47	
CA_2A4A5A	2	20	1910C	1900	1	0	1100	1980	4	20	2175	2132.5	5	10	2525	881.5									18.81	18.95	
CA_2A4A13A	2	20	1910C	1900	1	0	1100	1980	4	20	2175	2132.5	13	10	5230	751									18.79	18.95	
CA_2A4A30A	2	20	1910C	1900	1	0	1100	1980	14	10	5330	763	30	10	9820	2355									18.84	18.95	
CA_2A2A13A66A	2	20	1910C	1900	1	0	1100	1980	2	20	900	1960	13	10	5230	751	66	20	66786	2145					18.82	18.95	
CA_2A13A66A66A	2	20	1910C	1900	1	0	1100	1980	13	10	5230	751	66	20	66786	2145	66	20	67036	2170					18.91	18.95	
CA_2A13A66B	2	20	1910C	1900	1	0	1100	1980	13	10	5230	751	66	15	66786	2145	66	5	66879	2154					18.83	18.95	
CA_2A13A66C	2	20	1910C	1900	1	0	1100	1980	13	10	5230	751	66	20	66786	2145	66	20	66984	2164					18.79	18.95	
CA_2A13A46D	2	20	1910C	1900	1	0	1100	1980	13	10	5230	751	46	20	50665	5537.5	46	20	50863	5557.5	46	20	51061	5577.5	18.92	18.95	
CA_2A46D66A	2	20	1910C	1900	1	0	1100	1980	66	20	66786	2145	46	20	50665	5537.5	46	20	50863	5557.5	46	20	51061	5577.5	18.83	18.95	
CA_13A46D66A	13	10	2323C	782	1	0	5230	751	66	20	66786	2145	46	20	50665	5537.5	46	20	50863	5557.5	46	20	51061	5577.5	19.42	19.46	
CA_2A12A30A66A	2	20	1910C	1900	1	0	1100	1980	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145					18.78	18.95	
CA_2A5B30A66A	2	20	1910C	1900	1	0	1100	1980	66	20	66786	2145	30	10	9820	2355	5	10	2450	874	5	10	2549	883.9	18.87	18.95	

Summary for SAR Test Exclusion for LTE Downlink CA

Per power confirmation results in above, the uplink maximum output power with downlink CA active remains within the specified tune-up tolerance and not more than 0.25 dB higher than the maximum output power with downlink CA inactive. According to KDB 941225 D05A, the SAR test exclusion applies to LTE downlink CA operation.

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4.7.2 SAR Results for Body Exposure Condition

Tablet PC Mode

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Battery	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WCDMA II	RMC12.2K	Rear Face	0	9400	1	w/	19.0	18.98	1.00	0.03	1.11	1.11
	WCDMA II	RMC12.2K	Rear Face	16	9400	1	w/o	24.5	23.72	1.20	0.07	0.194	0.23
	WCDMA II	RMC12.2K	Left Side	0	9400	1	w/o	24.5	23.72	1.20	0.00	<0.001	0.00
	WCDMA II	RMC12.2K	Right Side	0	9400	1	w/o	24.5	23.72	1.20	0.00	<0.001	0.00
	WCDMA II	RMC12.2K	Top Side	0	9400	1	w/o	24.5	23.72	1.20	0.00	<0.001	0.00
	WCDMA II	RMC12.2K	Bottom Side	0	9400	1	w/	19.0	18.98	1.00	0.14	0.354	0.35
	WCDMA II	RMC12.2K	Bottom Side	14	9400	1	w/o	24.5	23.72	1.20	0.01	0.065	0.08
	WCDMA II	RMC12.2K	Rear Face	0	9262	1	w/	19.0	18.94	1.01	0.06	1.04	1.05
01	WCDMA II	RMC12.2K	Rear Face	0	9538	1	w/	19.0	18.88	1.03	-0.14	1.14	1.17
	WCDMA II	RMC12.2K	Rear Face	0	9538	2	w/	19.0	18.88	1.03	0.17	1.12	1.15
	WCDMA II	RMC12.2K	Rear Face	0	9262	2	w/	19.0	18.94	1.01	0.08	1.09	1.10
	WCDMA II	RMC12.2K	Rear Face	0	9400	2	w/	19.0	18.98	1.00	0.09	1.11	1.11
	WCDMA II	RMC12.2K	Rear Face	0	9538	1	w/	19.0	18.88	1.03	0.03	1.10	1.13
02	WCDMA IV	RMC12.2K	Rear Face	0	1413	1	w/	18.5	18.47	1.01	-0.13	0.825	0.83
	WCDMA IV	RMC12.2K	Rear Face	16	1312	1	w/o	24.5	23.70	1.20	0.15	0.193	0.23
	WCDMA IV	RMC12.2K	Left Side	0	1312	1	w/o	24.5	23.70	1.20	0.00	<0.001	0.00
	WCDMA IV	RMC12.2K	Right Side	0	1312	1	w/o	24.5	23.70	1.20	0.00	<0.001	0.00
	WCDMA IV	RMC12.2K	Top Side	0	1312	1	w/o	24.5	23.70	1.20	0.00	<0.001	0.00
	WCDMA IV	RMC12.2K	Bottom Side	0	1413	1	w/	18.5	18.47	1.01	0.03	0.175	0.18
	WCDMA IV	RMC12.2K	Bottom Side	14	1312	1	w/o	24.5	23.70	1.20	0.03	0.122	0.15
	WCDMA IV	RMC12.2K	Rear Face	0	1312	1	w/	18.5	18.42	1.02	0.17	0.804	0.82
	WCDMA IV	RMC12.2K	Rear Face	0	1513	1	w/	18.5	18.45	1.01	0.09	0.755	0.76
	WCDMA IV	RMC12.2K	Rear Face	0	1413	2	w/	18.5	18.47	1.01	-0.11	0.691	0.70
	WCDMA IV	RMC12.2K	Rear Face	0	1413	1	w/	18.5	18.47	1.01	0.03	0.801	0.81
	WCDMA V	RMC12.2K	Rear Face	0	4182	1	w/	19.5	19.45	1.01	0.03	0.714	0.72
	WCDMA V	RMC12.2K	Rear Face	16	4182	1	w/o	24.5	23.89	1.15	0.13	0.047	0.05
	WCDMA V	RMC12.2K	Left Side	0	4182	1	w/o	24.5	23.89	1.15	-0.05	0.052	0.06
	WCDMA V	RMC12.2K	Right Side	0	4182	1	w/o	24.5	23.89	1.15	-0.17	0.113	0.13
	WCDMA V	RMC12.2K	Top Side	0	4182	1	w/o	24.5	23.89	1.15	0.00	<0.001	0.00
	WCDMA V	RMC12.2K	Bottom Side	0	4182	1	w/	19.5	19.45	1.01	-0.08	0.356	0.36
	WCDMA V	RMC12.2K	Bottom Side	14	4182	1	w/o	24.5	23.89	1.15	0.01	0.038	0.04
03	WCDMA V	RMC12.2K	Rear Face	0	4132	1	w/	19.5	19.34	1.04	0.01	0.727	0.76
	WCDMA V	RMC12.2K	Rear Face	0	4233	1	w/	19.5	19.33	1.04	0.10	0.696	0.72
	WCDMA V	RMC12.2K	Rear Face	0	4132	2	w/	19.5	19.34	1.04	0.07	0.722	0.75

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Battery	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Rear Face	0	20600	1	0	1	w/	19.5	19.49	1.00	0.02	0.771	0.77
	LTE 5	QPSK10M	Rear Face	16	20600	1	0	1	w/o	24.5	23.77	1.18	0.03	0.034	0.04
	LTE 5	QPSK10M	Left Side	0	20600	1	0	1	w/o	24.5	23.77	1.18	-0.01	0.028	0.03
	LTE 5	QPSK10M	Right Side	0	20600	1	0	1	w/o	24.5	23.77	1.18	0.02	0.101	0.12
	LTE 5	QPSK10M	Top Side	0	20600	1	0	1	w/o	24.5	23.77	1.18	0.00	<0.001	0.00
	LTE 5	QPSK10M	Bottom Side	0	20600	1	0	1	w/	19.5	19.49	1.00	-0.05	0.618	0.62
	LTE 5	QPSK10M	Bottom Side	14	20600	1	0	1	w/o	24.5	23.77	1.18	0.11	0.034	0.04
	LTE 5	QPSK10M	Rear Face	0	20600	25	0	1	w/	19.5	19.47	1.01	0.07	0.765	0.77
	LTE 5	QPSK10M	Rear Face	16	20600	25	0	1	w/o	23.5	22.80	1.17	0.14	0.028	0.03
	LTE 5	QPSK10M	Left Side	0	20600	25	0	1	w/o	23.5	22.80	1.17	-0.05	0.026	0.03
	LTE 5	QPSK10M	Right Side	0	20600	25	0	1	w/o	23.5	22.80	1.17	0.08	0.093	0.11
	LTE 5	QPSK10M	Top Side	0	20600	25	0	1	w/o	23.5	22.80	1.17	0.00	<0.001	0.00
	LTE 5	QPSK10M	Bottom Side	0	20600	25	0	1	w/	19.5	19.47	1.01	0.10	0.556	0.56
	LTE 5	QPSK10M	Bottom Side	14	20600	25	0	1	w/o	23.5	22.80	1.17	-0.03	0.022	0.03
04	LTE 5	QPSK10M	Rear Face	0	20450	1	0	1	w/	19.5	19.37	1.03	-0.04	0.815	0.84
	LTE 5	QPSK10M	Rear Face	0	20525	1	0	1	w/	19.5	19.36	1.03	-0.03	0.781	0.80
	LTE 5	QPSK10M	Rear Face	0	20600	50	0	1	w/	19.5	19.42	1.02	0.11	0.775	0.79
	LTE 5	QPSK10M	Rear Face	0	20450	1	0	2	w/	19.5	19.37	1.03	0.07	0.722	0.74
	LTE 5	QPSK10M	Rear Face	0	20450	1	0	1	w/	19.5	19.37	1.03	0.03	0.807	0.83
	LTE 7	QPSK20M	Rear Face	0	20850	1	0	1	w/	17.5	17.49	1.00	-0.01	0.539	0.54
	LTE 7	QPSK20M	Rear Face	16	20850	1	0	1	w/o	24.5	23.81	1.17	0.03	0.110	0.13
	LTE 7	QPSK20M	Left Side	0	20850	1	0	1	w/o	24.5	23.81	1.17	0.00	<0.001	0.00
	LTE 7	QPSK20M	Right Side	0	20850	1	0	1	w/o	24.5	23.81	1.17	0.00	<0.001	0.00
	LTE 7	QPSK20M	Top Side	0	20850	1	0	1	w/o	24.5	23.81	1.17	0.00	<0.001	0.00
	LTE 7	QPSK20M	Bottom Side	0	20850	1	0	1	w/	17.5	17.49	1.00	-0.05	0.263	0.26
	LTE 7	QPSK20M	Bottom Side	14	20850	1	0	1	w/o	24.5	23.81	1.17	0.03	0.062	0.07
	LTE 7	QPSK20M	Rear Face	0	20850	50	0	1	w/	17.5	17.47	1.01	0.12	0.515	0.52
	LTE 7	QPSK20M	Rear Face	16	20850	50	50	1	w/o	23.5	22.74	1.19	-0.07	0.068	0.08
	LTE 7	QPSK20M	Left Side	0	20850	50	50	1	w/o	23.5	22.74	1.19	0.00	<0.001	0.00
	LTE 7	QPSK20M	Right Side	0	20850	50	50	1	w/o	23.5	22.74	1.19	0.00	<0.001	0.00
	LTE 7	QPSK20M	Top Side	0	20850	50	50	1	w/o	23.5	22.74	1.19	0.00	<0.001	0.00
	LTE 7	QPSK20M	Bottom Side	0	20850	50	0	1	w/	17.5	17.47	1.01	0.08	0.347	0.35
	LTE 7	QPSK20M	Bottom Side	14	20850	50	50	1	w/o	23.5	22.74	1.19	-0.03	0.047	0.06
	LTE 7	QPSK20M	Rear Face	0	21100	1	0	1	w/	17.5	17.41	1.02	0.12	0.480	0.49
05	LTE 7	QPSK20M	Rear Face	0	21350	1	0	1	w/	17.5	17.31	1.04	0.04	0.562	0.58
	LTE 7	QPSK20M	Rear Face	0	21350	1	0	2	w/	17.5	17.31	1.04	-0.03	0.551	0.57
	LTE 12	QPSK10M	Rear Face	0	23060	1	0	1	w/	22.0	21.99	1.00	-0.17	0.614	0.61
	LTE 12	QPSK10M	Rear Face	16	23060	1	0	1	w/o	24.5	23.79	1.18	0.06	0.061	0.07
	LTE 12	QPSK10M	Left Side	0	23060	1	0	1	w/o	24.5	23.79	1.18	0.00	<0.001	0.00
	LTE 12	QPSK10M	Right Side	0	23060	1	0	1	w/o	24.5	23.79	1.18	0.00	<0.001	0.00
	LTE 12	QPSK10M	Top Side	0	23060	1	0	1	w/o	24.5	23.79	1.18	0.00	<0.001	0.00
	LTE 12	QPSK10M	Bottom Side	0	23060	1	0	1	w/	22.0	21.99	1.00	-0.10	1.08	1.08
	LTE 12	QPSK10M	Bottom Side	14	23060	1	0	1	w/o	24.5	23.79	1.18	0.05	0.082	0.10
	LTE 12	QPSK10M	Rear Face	0	23060	25	0	1	w/	22.0	21.96	1.01	0.08	0.599	0.60
	LTE 12	QPSK10M	Rear Face	16	23060	25	12	1	w/o	23.5	22.84	1.16	-0.09	0.055	0.06
	LTE 12	QPSK10M	Left Side	0	23060	25	12	1	w/o	23.5	22.84	1.16	0.00	<0.001	0.00
	LTE 12	QPSK10M	Right Side	0	23060	25	12	1	w/o	23.5	22.84	1.16	0.00	<0.001	0.00
	LTE 12	QPSK10M	Top Side	0	23060	25	12	1	w/o	23.5	22.84	1.16	0.00	<0.001	0.00
	LTE 12	QPSK10M	Bottom Side	0	23060	25	0	1	w/	22.0	21.96	1.01	0.06	1.04	1.05
	LTE 12	QPSK10M	Bottom Side	14	23060	25	12	1	w/o	23.5	22.84	1.16	-0.13	0.069	0.08
	LTE 12	QPSK10M	Bottom Side	0	23095	1	0	1	w/	22.0	21.93	1.02	0.01	1.07	1.09
06	LTE 12	QPSK10M	Bottom Side	0	23130	1	0	1	w/	22.0	21.95	1.01	-0.08	1.16	1.17
	LTE 12	QPSK10M	Bottom Side	0	23095	25	0	1	w/	22.0	21.95	1.01	-0.20	1.01	1.02
	LTE 12	QPSK10M	Bottom Side	0	23130	25	0	1	w/	22.0	21.92	1.02	0.11	0.993	1.01
	LTE 12	QPSK10M	Bottom Side	0	23060	50	0	1	w/	22.0	21.93	1.02	0.06	1.04	1.06
	LTE 12	QPSK10M	Bottom Side	0	23130	1	0	2	w/	22.0	21.95	1.01	-0.02	1.13	1.14
	LTE 12	QPSK10M	Bottom Side	0	23060	1	0	2	w/	22.0	21.99	1.00	0.09	1.09	1.09
	LTE 12	QPSK10M	Bottom Side	0	23095	1	0	2	w/	22.0	21.93	1.02	-0.11	1.07	1.09
	LTE 12	QPSK10M	Bottom Side	0	23130	1	0	1	w/	22.0	21.95	1.01	0.03	1.13	1.14

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Battery	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
07	LTE 13	QPSK10M	Rear Face	0	23230	1	0	1	w/	19.5	19.46	1.01	-0.07	0.765	0.77
	LTE 13	QPSK10M	Rear Face	16	23230	1	24	1	w/o	24.5	23.83	1.17	0.01	0.036	0.04
	LTE 13	QPSK10M	Left Side	0	23230	1	24	1	w/o	24.5	23.83	1.17	0.00	<0.001	0.00
	LTE 13	QPSK10M	Right Side	0	23230	1	24	1	w/o	24.5	23.83	1.17	-0.10	0.045	0.05
	LTE 13	QPSK10M	Top Side	0	23230	1	24	1	w/o	24.5	23.83	1.17	0.00	<0.001	0.00
	LTE 13	QPSK10M	Bottom Side	0	23230	1	0	1	w/	19.5	19.46	1.01	0.01	0.729	0.74
	LTE 13	QPSK10M	Bottom Side	14	23230	1	24	1	w/o	24.5	23.83	1.17	-0.03	0.041	0.05
	LTE 13	QPSK10M	Rear Face	0	23230	25	12	1	w/	19.5	19.45	1.01	-0.05	0.749	0.76
	LTE 13	QPSK10M	Rear Face	16	23230	25	12	1	w/o	23.5	22.91	1.15	0.11	0.03	0.03
	LTE 13	QPSK10M	Left Side	0	23230	25	12	1	w/o	23.5	22.91	1.15	0.00	<0.001	0.00
	LTE 13	QPSK10M	Right Side	0	23230	25	12	1	w/o	23.5	22.91	1.15	-0.05	0.038	0.04
	LTE 13	QPSK10M	Top Side	0	23230	25	12	1	w/o	23.5	22.91	1.15	0.00	<0.001	0.00
	LTE 13	QPSK10M	Bottom Side	0	23230	25	12	1	w/	19.5	19.45	1.01	0.10	0.686	0.69
	LTE 13	QPSK10M	Bottom Side	14	23230	25	12	1	w/o	23.5	22.91	1.15	0.03	0.033	0.04
	LTE 13	QPSK10M	Rear Face	0	23230	1	0	2	w/	19.5	19.46	1.01	0.03	0.729	0.74
08	LTE 14	QPSK10M	Rear Face	0	23330	1	0	1	w/	19.5	19.47	1.01	-0.19	1.12	1.13
	LTE 14	QPSK10M	Rear Face	16	23330	1	0	1	w/o	24.5	23.81	1.17	0.03	0.026	0.03
	LTE 14	QPSK10M	Left Side	0	23330	1	0	1	w/o	24.5	23.81	1.17	0.00	<0.001	0.00
	LTE 14	QPSK10M	Right Side	0	23330	1	0	1	w/o	24.5	23.81	1.17	-0.06	0.048	0.06
	LTE 14	QPSK10M	Top Side	0	23330	1	0	1	w/o	24.5	23.81	1.17	0.00	<0.001	0.00
	LTE 14	QPSK10M	Bottom Side	0	23330	1	0	1	w/	19.5	19.47	1.01	0.06	0.784	0.79
	LTE 14	QPSK10M	Bottom Side	14	23330	1	0	1	w/o	24.5	23.81	1.17	-0.05	0.024	0.03
	LTE 14	QPSK10M	Rear Face	0	23330	25	0	1	w/	19.5	19.45	1.01	0.17	1.07	1.08
	LTE 14	QPSK10M	Rear Face	16	23330	25	0	1	w/o	23.5	22.82	1.17	0.03	0.021	0.02
	LTE 14	QPSK10M	Left Side	0	23330	25	0	1	w/o	23.5	22.82	1.17	0.00	<0.001	0.00
	LTE 14	QPSK10M	Right Side	0	23330	25	0	1	w/o	23.5	22.82	1.17	0.03	0.033	0.04
	LTE 14	QPSK10M	Top Side	0	23330	25	0	1	w/o	23.5	22.82	1.17	0.00	<0.001	0.00
	LTE 14	QPSK10M	Bottom Side	0	23330	25	0	1	w/	19.5	19.45	1.01	0.05	0.656	0.66
	LTE 14	QPSK10M	Bottom Side	14	23330	25	0	1	w/o	23.5	22.82	1.17	0.05	0.021	0.02
	LTE 14	QPSK10M	Rear Face	0	23330	50	0	1	w/	19.5	19.43	1.02	0.16	1.01	1.03
	LTE 14	QPSK10M	Rear Face	0	23330	1	0	2	w/	19.5	19.47	1.01	-0.11	0.898	0.91
	LTE 14	QPSK10M	Rear Face	0	23330	1	0	1	w/	19.5	19.47	1.01	0.09	1.08	1.09
	LTE 17	QPSK10M	Rear Face	0	23780	1	0	1	w/	23.0	22.99	1.00	-0.05	0.321	0.32
	LTE 17	QPSK10M	Rear Face	16	23780	1	0	1	w/o	24.5	23.94	1.14	0.03	0.022	0.03
	LTE 17	QPSK10M	Left Side	0	23780	1	0	1	w/o	24.5	23.94	1.14	0.00	<0.001	0.00
	LTE 17	QPSK10M	Right Side	0	23780	1	0	1	w/o	24.5	23.94	1.14	0.00	<0.001	0.00
	LTE 17	QPSK10M	Top Side	0	23780	1	0	1	w/o	24.5	23.94	1.14	0.00	<0.001	0.00
09	LTE 17	QPSK10M	Bottom Side	0	23780	1	0	1	w/	23.0	22.99	1.00	-0.01	0.468	0.47
	LTE 17	QPSK10M	Bottom Side	14	23780	1	0	1	w/o	24.5	23.94	1.14	-0.08	0.02	0.02
	LTE 17	QPSK10M	Rear Face	0	23780	25	0	1	w/	22.0	21.72	1.07	-0.06	0.291	0.31
	LTE 17	QPSK10M	Rear Face	16	23780	25	0	1	w/o	23.5	22.88	1.15	0.02	0.017	0.02
	LTE 17	QPSK10M	Left Side	0	23780	25	0	1	w/o	23.5	22.88	1.15	0.00	<0.001	0.00
	LTE 17	QPSK10M	Right Side	0	23780	25	0	1	w/o	23.5	22.88	1.15	0.00	<0.001	0.00
	LTE 17	QPSK10M	Top Side	0	23780	25	0	1	w/o	23.5	22.88	1.15	0.00	<0.001	0.00
	LTE 17	QPSK10M	Bottom Side	0	23780	25	0	1	w/	22.0	21.72	1.07	0.05	0.324	0.35
	LTE 17	QPSK10M	Bottom Side	14	23780	25	0	1	w/o	23.5	22.88	1.15	-0.13	0.026	0.03
	LTE 17	QPSK10M	Bottom Side	0	23790	1	0	1	w/	23.0	22.92	1.02	0.06	0.362	0.37
	LTE 17	QPSK10M	Bottom Side	0	23800	1	0	1	w/	23.0	22.92	1.02	-0.02	0.356	0.36
	LTE 17	QPSK10M	Bottom Side	0	23780	1	0	2	w/	23.0	22.99	1.00	0.01	0.369	0.37

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Battery	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
10	LTE 25	QPSK20M	Rear Face	0	26140	1	0	1	w/	20.0	19.99	1.00	-0.09	1.06	1.06
	LTE 25	QPSK20M	Rear Face	16	26140	1	0	1	w/o	24.5	23.72	1.20	0.11	0.349	0.42
	LTE 25	QPSK20M	Left Side	0	26140	1	0	1	w/o	24.5	23.72	1.20	0.00	<0.001	0.00
	LTE 25	QPSK20M	Right Side	0	26140	1	0	1	w/o	24.5	23.72	1.20	0.00	<0.001	0.00
	LTE 25	QPSK20M	Top Side	0	26140	1	0	1	w/o	24.5	23.72	1.20	0.00	<0.001	0.00
	LTE 25	QPSK20M	Bottom Side	0	26140	1	0	1	w/	20.0	19.99	1.00	-0.03	0.392	0.39
	LTE 25	QPSK20M	Bottom Side	14	26140	1	0	1	w/o	24.5	23.72	1.20	0.12	0.235	0.28
	LTE 25	QPSK20M	Rear Face	0	26140	50	0	1	w/	20.0	19.98	1.00	0.07	1.02	1.02
	LTE 25	QPSK20M	Rear Face	16	26140	50	0	1	w/o	23.5	22.71	1.20	-0.01	0.272	0.33
	LTE 25	QPSK20M	Left Side	0	26140	50	0	1	w/o	23.5	22.71	1.20	0.00	<0.001	0.00
	LTE 25	QPSK20M	Right Side	0	26140	50	0	1	w/o	23.5	22.71	1.20	0.00	<0.001	0.00
	LTE 25	QPSK20M	Top Side	0	26140	50	0	1	w/o	23.5	22.71	1.20	0.00	<0.001	0.00
	LTE 25	QPSK20M	Bottom Side	0	26140	50	0	1	w/	20.0	19.98	1.00	0.02	0.383	0.38
	LTE 25	QPSK20M	Bottom Side	14	26140	50	0	1	w/o	23.5	22.71	1.20	-0.06	0.134	0.16
	LTE 25	QPSK20M	Rear Face	0	26365	1	0	1	w/	20.0	19.93	1.02	-0.13	0.994	1.01
	LTE 25	QPSK20M	Rear Face	0	26590	1	0	1	w/	20.0	19.91	1.02	0.08	0.966	0.99
	LTE 25	QPSK20M	Rear Face	0	26365	50	0	1	w/	20.0	19.92	1.02	-0.03	0.976	1.00
	LTE 25	QPSK20M	Rear Face	0	26590	50	0	1	w/	20.0	19.86	1.03	0.02	0.957	0.99
	LTE 25	QPSK20M	Rear Face	0	26140	100	0	1	w/	20.0	19.93	1.02	0.07	0.947	0.97
	LTE 25	QPSK20M	Rear Face	0	26140	1	0	2	w/	20.0	19.99	1.00	0.13	1.01	1.01
	LTE 25	QPSK20M	Rear Face	0	26365	1	0	2	w/	20.0	19.93	1.02	-0.05	0.985	1.00
	LTE 25	QPSK20M	Rear Face	0	26590	1	0	2	w/	20.0	19.91	1.02	0.09	0.957	0.98
	LTE 25	QPSK20M	Rear Face	0	26140	1	0	1	w/	20.0	19.99	1.00	0.01	1.03	1.03
	LTE 26	QPSK15M	Rear Face	0	26965	1	0	1	w/	19.5	19.49	1.00	0.05	0.799	0.80
	LTE 26	QPSK15M	Rear Face	16	26865	1	0	1	w/o	24.5	23.93	1.14	0.03	0.064	0.07
	LTE 26	QPSK15M	Left Side	0	26865	1	0	1	w/o	24.5	23.93	1.14	0.05	0.032	0.04
	LTE 26	QPSK15M	Right Side	0	26865	1	0	1	w/o	24.5	23.93	1.14	-0.10	0.157	0.18
	LTE 26	QPSK15M	Top Side	0	26865	1	0	1	w/o	24.5	23.93	1.14	0.00	<0.001	0.00
	LTE 26	QPSK15M	Bottom Side	0	26965	1	0	1	w/	19.5	19.49	1.00	-0.01	0.691	0.69
	LTE 26	QPSK15M	Bottom Side	14	26865	1	0	1	w/o	24.5	23.93	1.14	0.12	0.05	0.06
	LTE 26	QPSK15M	Rear Face	0	26965	36	0	1	w/	19.5	19.48	1.00	-0.03	0.787	0.79
	LTE 26	QPSK15M	Rear Face	16	26865	36	0	1	w/o	23.5	22.97	1.13	-0.05	0.052	0.06
	LTE 26	QPSK15M	Left Side	0	26865	36	0	1	w/o	23.5	22.97	1.13	-0.11	0.031	0.04
	LTE 26	QPSK15M	Right Side	0	26865	36	0	1	w/o	23.5	22.97	1.13	0.05	0.131	0.15
	LTE 26	QPSK15M	Top Side	0	26865	36	0	1	w/o	23.5	22.97	1.13	0.00	<0.001	0.00
	LTE 26	QPSK15M	Bottom Side	0	26965	36	0	1	w/	19.5	19.48	1.00	0.11	0.611	0.61
	LTE 26	QPSK15M	Bottom Side	14	26865	36	0	1	w/o	23.5	22.97	1.13	0.14	0.053	0.06
	LTE 26	QPSK15M	Rear Face	0	26765	1	0	1	w/	19.5	19.48	1.00	0.05	0.777	0.78
11	LTE 26	QPSK15M	Rear Face	0	26865	1	0	1	w/	19.5	19.41	1.02	-0.10	0.867	0.88
	LTE 26	QPSK15M	Rear Face	0	26965	75	0	1	w/	19.5	19.43	1.02	0.01	0.791	0.81
	LTE 26	QPSK15M	Rear Face	0	26865	1	0	2	w/	19.5	19.41	1.02	0.08	0.742	0.76
	LTE 26	QPSK15M	Rear Face	0	26865	1	0	1	w/	19.5	19.41	1.02	0.03	0.844	0.86
12	LTE 30	QPSK10M	Rear Face	0	27710	1	0	1	w/	17.0	16.95	1.01	0.03	0.232	0.23
	LTE 30	QPSK10M	Rear Face	16	27710	1	0	1	w/o	23.0	22.13	1.22	0.17	0.028	0.03
	LTE 30	QPSK10M	Left Side	0	27710	1	0	1	w/o	23.0	22.13	1.22	0.00	<0.001	0.00
	LTE 30	QPSK10M	Right Side	0	27710	1	0	1	w/o	23.0	22.13	1.22	0.00	<0.001	0.00
	LTE 30	QPSK10M	Top Side	0	27710	1	0	1	w/o	23.0	22.13	1.22	0.00	<0.001	0.00
	LTE 30	QPSK10M	Bottom Side	0	27710	1	0	1	w/	17.0	16.95	1.01	0.13	0.120	0.12
	LTE 30	QPSK10M	Bottom Side	14	27710	1	0	1	w/o	23.0	22.13	1.22	0.07	0.024	0.03
	LTE 30	QPSK10M	Rear Face	0	27710	25	12	1	w/	17.0	16.95	1.01	-0.02	0.218	0.22
	LTE 30	QPSK10M	Rear Face	16	27710	25	0	1	w/o	22.0	21.18	1.21	0.05	0.019	0.02
	LTE 30	QPSK10M	Left Side	0	27710	25	0	1	w/o	22.0	21.18	1.21	0.00	<0.001	0.00
	LTE 30	QPSK10M	Right Side	0	27710	25	0	1	w/o	22.0	21.18	1.21	0.00	<0.001	0.00
	LTE 30	QPSK10M	Top Side	0	27710	25	0	1	w/o	22.0	21.18	1.21	0.00	<0.001	0.00
	LTE 30	QPSK10M	Bottom Side	0	27710	25	12	1	w/	17.0	16.95	1.01	0.03	0.101	0.10
	LTE 30	QPSK10M	Bottom Side	14	27710	25	0	1	w/o	22.0	21.18	1.21	-0.06	0.018	0.02
	LTE 30	QPSK10M	Rear Face	0	27710	1	0	2	w/	17.0	16.95	1.01	0.04	0.222	0.22

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Battery	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 38	QPSK20M	Rear Face	0	38000	1	0	1	w/	21.5	21.48	1.00	0.03	0.941	0.94
	LTE 38	QPSK20M	Rear Face	16	38000	1	0	1	w/o	24.5	23.85	1.16	0.05	0.229	0.27
	LTE 38	QPSK20M	Left Side	0	38000	1	0	1	w/o	24.5	23.85	1.16	0.00	<0.001	0.00
	LTE 38	QPSK20M	Right Side	0	38000	1	0	1	w/o	24.5	23.85	1.16	0.00	<0.001	0.00
	LTE 38	QPSK20M	Top Side	0	38000	1	0	1	w/o	24.5	23.85	1.16	0.00	<0.001	0.00
	LTE 38	QPSK20M	Bottom Side	0	38000	1	0	1	w/	21.5	21.48	1.00	0.12	0.514	0.51
	LTE 38	QPSK20M	Bottom Side	14	38000	1	0	1	w/o	24.5	23.85	1.16	0.05	0.156	0.18
	LTE 38	QPSK20M	Rear Face	0	38000	50	25	1	w/	21.5	21.46	1.01	0.03	0.921	0.93
	LTE 38	QPSK20M	Rear Face	16	38000	50	0	1	w/o	23.5	22.86	1.16	-0.12	0.177	0.21
	LTE 38	QPSK20M	Left Side	0	38000	50	0	1	w/o	23.5	22.86	1.16	0.00	<0.001	0.00
	LTE 38	QPSK20M	Right Side	0	38000	50	0	1	w/o	23.5	22.86	1.16	0.00	<0.001	0.00
	LTE 38	QPSK20M	Top Side	0	38000	50	0	1	w/o	23.5	22.86	1.16	0.00	<0.001	0.00
	LTE 38	QPSK20M	Bottom Side	0	38000	50	25	1	w/	21.5	21.46	1.01	0.03	0.485	0.49
	LTE 38	QPSK20M	Bottom Side	14	38000	50	0	1	w/o	23.5	22.86	1.16	-0.06	0.112	0.13
	LTE 38	QPSK20M	Rear Face	0	37850	1	0	1	w/	21.5	21.38	1.03	-0.11	0.855	0.88
13	LTE 38	QPSK20M	Rear Face	0	38150	1	0	1	w/	21.5	21.47	1.01	-0.03	0.962	0.97
	LTE 38	QPSK20M	Rear Face	0	37850	50	25	1	w/	21.5	21.36	1.03	0.02	0.823	0.85
	LTE 38	QPSK20M	Rear Face	0	38150	50	25	1	w/	21.5	21.45	1.01	0.06	0.929	0.94
	LTE 38	QPSK20M	Rear Face	0	38000	100	0	1	w/	21.5	21.43	1.02	0.05	0.901	0.92
	LTE 38	QPSK20M	Rear Face	0	38150	1	0	2	w/	21.5	21.47	1.01	0.08	0.936	0.95
	LTE 38	QPSK20M	Rear Face	0	37850	1	0	2	w/	21.5	21.38	1.03	0.07	0.836	0.86
	LTE 38	QPSK20M	Rear Face	0	38000	1	0	2	w/	21.5	21.48	1.00	-0.02	0.907	0.91
	LTE 38	QPSK20M	Rear Face	0	38150	1	0	1	w/	21.5	21.47	1.01	-0.05	0.942	0.95
	LTE 41	QPSK20M	Rear Face	0	40185	1	0	1	w/	17.0	16.98	1.00	-0.02	0.337	0.34
	LTE 41	QPSK20M	Rear Face	16	40185	1	0	1	w/o	24.5	23.80	1.17	0.03	0.089	0.10
	LTE 41	QPSK20M	Left Side	0	40185	1	0	1	w/o	24.5	23.80	1.17	0.00	<0.001	0.00
	LTE 41	QPSK20M	Right Side	0	40185	1	0	1	w/o	24.5	23.80	1.17	0.00	<0.001	0.00
	LTE 41	QPSK20M	Top Side	0	40185	1	0	1	w/o	24.5	23.80	1.17	0.00	<0.001	0.00
	LTE 41	QPSK20M	Bottom Side	0	40185	1	0	1	w/	17.0	16.98	1.00	0.05	0.159	0.16
	LTE 41	QPSK20M	Bottom Side	14	40185	1	0	1	w/o	24.5	23.80	1.17	-0.07	0.118	0.14
	LTE 41	QPSK20M	Rear Face	0	40185	50	0	1	w/	17.0	16.96	1.01	0.02	0.334	0.34
	LTE 41	QPSK20M	Rear Face	16	40185	50	0	1	w/o	23.5	22.96	1.13	-0.01	0.081	0.09
	LTE 41	QPSK20M	Left Side	0	40185	50	0	1	w/o	23.5	22.96	1.13	0.00	<0.001	0.00
	LTE 41	QPSK20M	Right Side	0	40185	50	0	1	w/o	23.5	22.96	1.13	0.00	<0.001	0.00
	LTE 41	QPSK20M	Top Side	0	40185	50	0	1	w/o	23.5	22.96	1.13	0.00	<0.001	0.00
	LTE 41	QPSK20M	Bottom Side	0	40185	50	0	1	w/	17.0	16.96	1.01	0.04	0.118	0.12
	LTE 41	QPSK20M	Bottom Side	14	40185	50	0	1	w/o	23.5	22.96	1.13	0.05	0.076	0.09
	LTE 41	QPSK20M	Rear Face	0	39750	1	0	1	w/	17.0	16.95	1.01	0.03	0.252	0.25
	LTE 41	QPSK20M	Rear Face	0	40620	1	0	1	w/	17.0	16.92	1.02	0.13	0.333	0.34
14	LTE 41	QPSK20M	Rear Face	0	41055	1	0	1	w/	17.0	16.84	1.04	0.01	0.349	0.36
	LTE 41	QPSK20M	Rear Face	0	41490	1	0	1	w/	17.0	16.68	1.08	-0.08	0.287	0.31
	LTE 41	QPSK20M	Rear Face	0	41055	1	0	2	w/	17.0	16.84	1.04	0.14	0.316	0.33
15	LTE 66	QPSK20M	Rear Face	0	132572	1	0	1	w/	19.5	19.48	1.00	-0.05	0.869	0.87
	LTE 66	QPSK20M	Rear Face	16	132322	1	0	1	w/o	24.5	23.75	1.19	-0.04	0.128	0.15
	LTE 66	QPSK20M	Left Side	0	132322	1	0	1	w/o	24.5	23.75	1.19	0.00	<0.001	0.00
	LTE 66	QPSK20M	Right Side	0	132322	1	0	1	w/o	24.5	23.75	1.19	0.00	<0.001	0.00
	LTE 66	QPSK20M	Top Side	0	132322	1	0	1	w/o	24.5	23.75	1.19	0.00	<0.001	0.00
	LTE 66	QPSK20M	Bottom Side	0	132572	1	0	1	w/	19.5	19.48	1.00	0.08	0.409	0.41
	LTE 66	QPSK20M	Bottom Side	14	132322	1	0	1	w/o	24.5	23.75	1.19	0.02	0.066	0.08
	LTE 66	QPSK20M	Rear Face	0	132572	50	0	1	w/	19.5	19.41	1.02	0.07	0.835	0.85
	LTE 66	QPSK20M	Rear Face	16	132322	50	0	1	w/o	23.5	22.67	1.21	-0.13	0.085	0.10
	LTE 66	QPSK20M	Left Side	0	132322	50	0	1	w/o	23.5	22.67	1.21	0.00	<0.001	0.00
	LTE 66	QPSK20M	Right Side	0	132322	50	0	1	w/o	23.5	22.67	1.21	0.00	<0.001	0.00
	LTE 66	QPSK20M	Top Side	0	132322	50	0	1	w/o	23.5	22.67	1.21	0.00	<0.001	0.00
	LTE 66	QPSK20M	Bottom Side	0	132572	50	0	1	w/	19.5	19.41	1.02	0.05	0.440	0.45
	LTE 66	QPSK20M	Bottom Side	14	132322	50	0	1	w/o	23.5	22.67	1.21	-0.02	0.056	0.07
	LTE 66	QPSK20M	Rear Face	0	132072	1	0	1	w/	19.5	19.29	1.05	-0.01	0.771	0.81
	LTE 66	QPSK20M	Rear Face	0	132322	1	0	1	w/	19.5	19.45	1.01	0.08	0.825	0.83
	LTE 66	QPSK20M	Rear Face	0	132072	50	0	1	w/	19.5	19.33	1.04	0.03	0.812	0.84
	LTE 66	QPSK20M	Rear Face	0	132322	50	0	1	w/	19.5	19.28	1.05	0.01	0.815	0.86
	LTE 66	QPSK20M	Rear Face	0	132572	100	0	1	w/	19.5	19.37	1.03	-0.08	0.834	0.86
	LTE 66	QPSK20M	Rear Face	0	132572	1	0	2	w/	19.5	19.48	1.00	0.03	0.850	0.85
	LTE 66	QPSK20M	Rear Face	0	132072	1	0	2	w/	19.5	19.29	1.05	0.11	0.783	0.82
	LTE 66	QPSK20M	Rear Face	0	132322	1	0	2	w/	19.5	19.45	1.01	0.05	0.830	0.84
	LTE 66	QPSK20M	Rear Face	0	132572	1	0	1	w/	19.5	19.48	1.00	-0.05	0.858	0.86

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Laptop PC Mode

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Battery	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
16	WCDMA II	RMC122K	Bottom	0	9400	1	19.0	18.98	1.00	-0.08	1.14	1.14
	WCDMA II	RMC122K	Bottom	0	9262	1	19.0	18.94	1.01	-0.04	1.10	1.11
	WCDMA II	RMC122K	Bottom	0	9538	1	19.0	18.88	1.03	0.05	1.11	1.14
	WCDMA II	RMC122K	Bottom	0	9400	2	19.0	18.98	1.00	0.13	0.791	0.79
	WCDMA II	RMC122K	Bottom	0	9400	1	19.0	18.98	1.00	0.16	1.11	1.11
	WCDMA IV	RMC122K	Bottom	0	1413	1	18.5	18.47	1.01	-0.06	1.02	1.03
17	WCDMA IV	RMC122K	Bottom	0	1312	1	18.5	18.42	1.02	-0.06	1.04	1.06
	WCDMA IV	RMC122K	Bottom	0	1513	1	18.5	18.45	1.01	0.03	0.984	0.99
	WCDMA IV	RMC122K	Bottom	0	1312	2	18.5	18.42	1.02	-0.07	0.774	0.79
	WCDMA IV	RMC122K	Bottom	0	1312	1	18.5	18.42	1.02	0.03	0.999	1.02
	WCDMA V	RMC122K	Bottom	0	4182	1	19.5	19.45	1.01	0.02	0.278	0.28
18	WCDMA V	RMC122K	Bottom	0	4132	1	19.5	19.34	1.04	0.08	0.395	0.41
	WCDMA V	RMC122K	Bottom	0	4233	1	19.5	19.33	1.04	-0.01	0.269	0.28
	WCDMA V	RMC122K	Bottom	0	4132	2	19.5	19.34	1.04	0.13	0.383	0.40

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Battery	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Bottom	0	20600	1	0	1	19.5	19.49	1.00	0.01	0.461	0.46
	LTE 5	QPSK10M	Bottom	0	20600	25	0	1	19.5	19.47	1.01	0.13	0.452	0.46
19	LTE 5	QPSK10M	Bottom	0	20450	1	0	1	19.5	19.37	1.03	-0.05	0.462	0.48
	LTE 5	QPSK10M	Bottom	0	20525	1	0	1	19.5	19.36	1.03	-0.05	0.450	0.46
	LTE 5	QPSK10M	Bottom	0	20450	1	0	2	19.5	19.37	1.03	0.09	0.279	0.29
	LTE 7	QPSK20M	Bottom	0	20850	1	0	1	17.5	17.49	1.00	-0.08	0.203	0.20
	LTE 7	QPSK20M	Bottom	0	20850	50	0	1	17.5	17.47	1.01	0.13	0.199	0.20
	LTE 7	QPSK20M	Bottom	0	21100	1	0	1	17.5	17.41	1.02	0.05	0.223	0.23
20	LTE 7	QPSK20M	Bottom	0	21350	1	0	1	17.5	17.31	1.04	0.07	0.260	0.27
	LTE 7	QPSK20M	Bottom	0	20850	1	0	2	17.5	17.31	1.04	-0.14	0.249	0.26
21	LTE 12	QPSK10M	Bottom	0	23060	1	0	1	22.0	21.99	1.00	0.07	0.804	0.80
	LTE 12	QPSK10M	Bottom	0	23060	25	0	1	22.0	21.96	1.01	0.03	0.792	0.80
	LTE 12	QPSK10M	Bottom	0	23095	1	0	1	22.0	21.93	1.02	0.11	0.788	0.80
	LTE 12	QPSK10M	Bottom	0	23130	1	0	1	22.0	21.95	1.01	0.08	0.785	0.79
	LTE 12	QPSK10M	Bottom	0	23060	1	0	2	22.0	21.99	1.00	0.01	0.437	0.44
	LTE 12	QPSK10M	Bottom	0	23060	1	0	1	22.0	21.99	1.00	0.13	0.795	0.80

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Battery	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
22	LTE 13	QPSK10M	Bottom	0	23230	1	0	1	19.5	19.46	1.01	0.09	0.472	0.48
	LTE 13	QPSK10M	Bottom	0	23230	25	12	1	19.5	19.45	1.01	0.01	0.458	0.46
	LTE 13	QPSK10M	Bottom	0	23230	1	0	2	19.5	19.46	1.01	-0.13	0.266	0.27
23	LTE 14	QPSK10M	Bottom	0	23330	1	0	1	19.5	19.47	1.01	0.14	0.520	0.53
	LTE 14	QPSK10M	Bottom	0	23330	25	0	1	19.5	19.45	1.01	0.02	0.512	0.52
	LTE 14	QPSK10M	Bottom	0	23330	1	0	2	19.5	19.47	1.01	0.01	0.283	0.29
24	LTE 17	QPSK10M	Bottom	0	23780	1	0	1	23.0	22.99	1.00	0.04	0.305	0.31
	LTE 17	QPSK10M	Bottom	0	23780	25	0	1	22.0	21.72	1.07	-0.11	0.267	0.29
	LTE 17	QPSK10M	Bottom	0	23790	1	0	1	23.0	22.92	1.02	0.05	0.292	0.30
	LTE 17	QPSK10M	Bottom	0	23800	1	0	1	23.0	22.92	1.02	0.03	0.285	0.29
	LTE 17	QPSK10M	Bottom	0	23780	1	0	2	23.0	22.99	1.00	-0.07	0.169	0.17
	LTE 25	QPSK20M	Bottom	0	26140	1	0	1	20.0	19.99	1.00	-0.08	1.14	1.14
25	LTE 25	QPSK20M	Bottom	0	26140	50	0	1	20.0	19.98	1.00	0.13	1.13	1.13
	LTE 25	QPSK20M	Bottom	0	26365	1	0	1	20.0	19.93	1.02	0.05	1.13	1.15
	LTE 25	QPSK20M	Bottom	0	26590	1	0	1	20.0	19.91	1.02	0.02	1.16	1.18
	LTE 25	QPSK20M	Bottom	0	26365	50	0	1	20.0	19.92	1.02	0.03	1.13	1.15
	LTE 25	QPSK20M	Bottom	0	26590	50	0	1	20.0	19.86	1.03	-0.05	1.14	1.17
	LTE 25	QPSK20M	Bottom	0	26140	100	0	1	20.0	19.93	1.02	-0.01	1.11	1.13
26	LTE 25	QPSK20M	Bottom	0	26590	1	0	2	20.0	19.91	1.02	-0.09	1.12	1.14
	LTE 25	QPSK20M	Bottom	0	26590	1	0	1	20.0	19.91	1.02	-0.09	1.14	1.16
	LTE 26	QPSK15M	Bottom	0	26965	1	0	1	19.5	19.49	1.00	0.01	0.462	0.46
	LTE 26	QPSK15M	Bottom	0	26965	36	0	1	19.5	19.48	1.00	0.13	0.458	0.46
	LTE 26	QPSK15M	Bottom	0	26765	1	0	1	19.5	19.48	1.00	-0.08	0.457	0.46
	LTE 26	QPSK15M	Bottom	0	26865	1	0	1	19.5	19.41	1.02	-0.03	0.471	0.48
27	LTE 26	QPSK15M	Bottom	0	26865	1	0	2	19.5	19.41	1.02	0.01	0.276	0.28
	LTE 30	QPSK10M	Bottom	0	27710	1	0	1	17.0	16.95	1.01	-0.08	0.168	0.17
	LTE 30	QPSK10M	Bottom	0	27710	25	12	1	17.0	16.95	1.01	0.07	0.163	0.16
	LTE 30	QPSK10M	Bottom	0	27710	1	0	2	17.0	16.95	1.01	-0.02	0.158	0.16
	LTE 38	QPSK20M	Bottom	0	38000	1	0	1	21.5	21.48	1.00	0.03	0.421	0.42
	LTE 38	QPSK20M	Bottom	0	38000	50	25	1	21.5	21.46	1.01	0.05	0.417	0.42
28	LTE 38	QPSK20M	Bottom	0	37850	1	0	1	21.5	21.38	1.03	0.12	0.413	0.43
	LTE 38	QPSK20M	Bottom	0	38150	1	0	1	21.5	21.47	1.01	-0.01	0.450	0.45
	LTE 38	QPSK20M	Bottom	0	38150	1	0	2	21.5	21.47	1.01	-0.03	0.169	0.17
	LTE 41	QPSK20M	Bottom	0	40185	1	0	1	17.0	16.98	1.00	-0.08	0.131	0.13
	LTE 41	QPSK20M	Bottom	0	40185	50	0	1	17.0	16.96	1.01	0.02	0.114	0.12
	LTE 41	QPSK20M	Bottom	0	39750	1	0	1	17.0	16.95	1.01	0.07	0.102	0.10
29	LTE 41	QPSK20M	Bottom	0	40620	1	0	1	17.0	16.92	1.02	-0.01	0.161	0.16
	LTE 41	QPSK20M	Bottom	0	41055	1	0	1	17.0	16.84	1.04	0.11	0.145	0.15
	LTE 41	QPSK20M	Bottom	0	41490	1	0	1	17.0	16.68	1.08	0.05	0.131	0.14
	LTE 41	QPSK20M	Bottom	0	40620	1	0	2	17.0	16.92	1.02	-0.06	0.147	0.15
	LTE 66	QPSK20M	Bottom	0	132572	1	0	1	19.5	19.48	1.00	0.08	0.597	0.60
	LTE 66	QPSK20M	Bottom	0	132572	50	0	1	19.5	19.41	1.02	-0.03	0.581	0.59
30	LTE 66	QPSK20M	Bottom	0	132072	1	0	1	19.5	19.29	1.05	0.08	0.561	0.59
	LTE 66	QPSK20M	Bottom	0	132322	1	0	1	19.5	19.45	1.01	0.11	0.584	0.59
	LTE 66	QPSK20M	Bottom	0	132572	1	0	2	19.5	19.48	1.00	0.05	0.562	0.56

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4.7.3 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

Tablet PC Mode

Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1 st Repeated SAR-1g (W/kg)	L/S Ratio	2 nd Repeated SAR-1g (W/kg)	L/S Ratio	3 rd Repeated SAR-1g (W/kg)	L/S Ratio
WCDMA II	RMC12.2K	Rear Face	9538	1.14	1.1	1.04	N/A	N/A	N/A	N/A
WCDMA IV	RMC12.2K	Rear Face	1413	0.825	0.801	1.03	N/A	N/A	N/A	N/A
LTE 5	QPSK10M	Rear Face	20450	0.815	0.807	1.01	N/A	N/A	N/A	N/A
LTE 12	QPSK10M	Bottom Side	23130	1.16	1.13	1.03	N/A	N/A	N/A	N/A
LTE 14	QPSK10M	Rear Face	23330	1.12	1.08	1.04	N/A	N/A	N/A	N/A
LTE 25	QPSK20M	Rear Face	26140	1.06	1.03	1.03	N/A	N/A	N/A	N/A
LTE 26	QPSK15M	Rear Face	26865	0.867	0.844	1.03	N/A	N/A	N/A	N/A
LTE 38	QPSK20M	Rear Face	38150	0.962	0.942	1.02	N/A	N/A	N/A	N/A
LTE 66	QPSK20M	Rear Face	132572	0.869	0.858	1.01	N/A	N/A	N/A	N/A

Laptop PC Mode

Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1 st Repeated SAR-1g (W/kg)	L/S Ratio	2 nd Repeated SAR-1g (W/kg)	L/S Ratio	3 rd Repeated SAR-1g (W/kg)	L/S Ratio
WCDMA II	RMC12.2K	Bottom	9400	1.14	1.11	1.03	N/A	N/A	N/A	N/A
WCDMA IV	RMC12.2K	Bottom	1312	1.04	0.999	1.04	N/A	N/A	N/A	N/A
LTE 12	QPSK10M	Bottom	23060	0.804	0.795	1.01	N/A	N/A	N/A	N/A
LTE 25	QPSK20M	Bottom Side	26590	1.16	1.14	1.02	N/A	N/A	N/A	N/A

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4.7.4 Simultaneous Multi-band Transmission Evaluation

<Possibilities of Simultaneous Transmission>

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

<T77W968 + 9560NGW>

Simultaneous TX Combination	Capable Transmit Configurations	Body Exposure Condition
1	WWAN + WLAN 2.4G	Yes
2	WWAN + WLAN 5G	Yes
3	WWAN + BT	Yes
4	WWAN + WLAN 2.4G Main + WLAN 2.4G Aux.	Yes
5	WWAN + WLAN 5G Main + WLAN 5G Aux.	Yes
6	WWAN + WLAN 2.4G Main + BT Aux.	Yes
7	WWAN + WLAN 5G Main + BT Aux.	Yes
8	WWAN + WLAN 5G Main + WLAN 5G Aux. + BT Aux.	Yes

Note:

1. The WLAN 2.4G and WLAN 5G cannot transmit simultaneously.
2. Condition 1 is covered by condition 4.
3. Condition 2, 5, and 7 are covered by condition 8.
4. Condition 3 is covered by condition 6.

<T77W968 + QCNFA344A>

Simultaneous TX Combination	Capable Transmit Configurations	Body Exposure Condition
1	WWAN + WLAN 2.4G	Yes
2	WWAN + WLAN 5G	Yes
3	WWAN + BT	Yes
4	WWAN + WLAN 2.4G Main + BT Aux.	Yes
5	WWAN + WLAN 5G Main + BT Aux.	Yes
6	WWAN + WLAN 2.4G + WLAN 5G	Yes

Note:

1. Condition 1 and 2 are covered by condition 6.
2. Condition 3 is covered by condition 4.

<Estimated SAR Calculation>

According to KDB 447498 D01, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR was estimated according to following formula to result in substantially conservative SAR values of ≤ 0.4 W/kg to determine simultaneous transmission SAR test exclusion.

$$\text{Estimated SAR} = \frac{\text{Max. Tune up Power}_{(\text{mW})}}{\text{Min. Test Separation Distance}_{(\text{mm})}} \times \frac{\sqrt{f_{(\text{GHz})}}}{7.5}$$

If the minimum test separation distance is < 5 mm, a distance of 5 mm is used for estimated SAR calculation. When the test separation distance is > 50 mm, the 0.4 W/kg is used for SAR-1g.

FCC SAR Test Report

Tablet PC Mode

<9560NGW>

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Estimated SAR (W/kg)
WLAN (DTS)	2.462	20.0	Body	5	0.4
WLAN (NII)	5.24	15.5	Body	5	0.4
WLAN (NII)	5.32	15.0	Body	5	0.4
WLAN (NII)	5.72	15.5	Body	5	0.4
WLAN (NII)	5.825	16.0	Body	5	0.4
BT (DTS)	2.48	14.5	Body	5	0.4

<QCNFA344A>

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Estimated SAR (W/kg)
WLAN (DTS)	2.462	21.0	Body	5	0.4
WLAN (NII)	5.24	16.0	Body	5	0.4
WLAN (NII)	5.32	16.0	Body	5	0.4
WLAN (NII)	5.72	16.0	Body	5	0.4
WLAN (NII)	5.825	16.0	Body	5	0.4
BT (DTS)	2.48	7.0	Body	5	0.21

Note:

1. The separation distance is determined from the outer housing of the EUT to the user.
2. When standalone SAR testing is not required, an estimated SAR can be applied to determine simultaneous transmission SAR test exclusion.

FCC SAR Test Report

<SAR Summation Analysis>

This evaluation is combined other operating band data of the End-product from BVCPS report (Report No.: SA180914C21B, Issue Date: Dec. 28, 2018, for WLAN / BT module QCNFA344A) and Intel report (Report No.: 181119-01.TR01, Issue Date: Feb. 12, 2019, for WLAN / BT module 9560NGW). The SAR summation of maximum SAR of WWAN and WLAN for each position is under the SAR limitation (2.0 W/kg). Therefore, the simultaneous transmission condition complies with the SAR criterion.

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

<T77W968 + 9560NGW>

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
1	WCDMA II + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	1.17	1.02	1.03	-	3.22	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.40	-	1.15	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.14	0.19	0.18	-	1.51	Σ SAR < 1.6, Not required
2	WCDMA II + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	1.17	1.02	0.17	-	2.36	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.40	-	1.15	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.14	0.19	0.10	-	1.43	Σ SAR < 1.6, Not required
3	WCDMA II + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	1.17	0.94	0.65	0.17	2.93	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.35	0.40	0.40	0.40	1.55	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.14	1.11	1.06	0.10	3.41	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
4	WCDMA IV + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.83	1.02	1.03	-	2.88	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.18	0.40	0.40	-	0.98	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.06	0.19	0.18	-	1.43	Σ SAR < 1.6, Not required
5	WCDMA IV + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.83	1.02	0.17	-	2.02	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.18	0.40	0.40	-	0.98	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.06	0.19	0.10	-	1.35	Σ SAR < 1.6, Not required
6	WCDMA IV + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.83	0.94	0.65	0.17	2.59	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.18	0.40	0.40	0.40	1.38	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.06	1.11	1.06	0.10	3.33	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
7	WCDMA V + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.76	1.02	1.03	-	2.81	Analyzed as below
			Left Side	0.06	0.40	0.40	-	0.86	Σ SAR < 1.6, Not required
			Right Side	0.13	0.40	0.40	-	0.93	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.36	0.40	0.40	-	1.16	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.41	0.19	0.18	-	0.78	Σ SAR < 1.6, Not required
8	WCDMA V + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.76	1.02	0.17	-	1.95	Analyzed as below
			Left Side	0.06	0.40	0.40	-	0.86	Σ SAR < 1.6, Not required
			Right Side	0.13	0.40	0.40	-	0.93	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.36	0.40	0.40	-	1.16	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.41	0.19	0.10	-	0.70	Σ SAR < 1.6, Not required
9	WCDMA V + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.76	0.94	0.65	0.17	2.52	Analyzed as below
			Left Side	0.06	0.40	0.40	0.40	1.26	Σ SAR < 1.6, Not required
			Right Side	0.13	0.40	0.40	0.40	1.33	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.36	0.40	0.40	0.40	1.56	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.41	1.11	1.06	0.10	2.68	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
10	LTE 5 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.84	1.02	1.03	-	2.89	Analyzed as below
			Left Side	0.03	0.40	0.40	-	0.83	Σ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.40	-	0.92	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.62	0.40	0.40	-	1.42	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.19	0.18	-	0.85	Σ SAR < 1.6, Not required
11	LTE 5 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.84	1.02	0.17	-	2.03	Analyzed as below
			Left Side	0.03	0.40	0.40	-	0.83	Σ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.40	-	0.92	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.62	0.40	0.40	-	1.42	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.19	0.10	-	0.77	Σ SAR < 1.6, Not required
12	LTE 5 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.84	0.94	0.65	0.17	2.60	Analyzed as below
			Left Side	0.03	0.40	0.40	0.40	1.23	Σ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.40	0.40	1.32	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.62	0.40	0.40	0.40	1.82	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.48	1.11	1.06	0.10	2.75	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
13	LTE 7 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.58	1.02	1.03	-	2.63	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.40	-	1.15	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.27	0.19	0.18	-	0.64	Σ SAR < 1.6, Not required
14	LTE 7 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.58	1.02	0.17	-	1.77	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.40	-	1.15	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.27	0.19	0.10	-	0.56	Σ SAR < 1.6, Not required
15	LTE 7 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.58	0.94	0.65	0.17	2.34	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.35	0.40	0.40	0.40	1.55	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.27	1.11	1.06	0.10	2.54	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
16	LTE 12 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.61	1.02	1.03	-	2.66	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	1.17	0.40	0.40	-	1.97	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.80	0.19	0.18	-	1.17	Σ SAR < 1.6, Not required
17	LTE 12 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.61	1.02	0.17	-	1.80	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	1.17	0.40	0.40	-	1.97	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.80	0.19	0.10	-	1.09	Σ SAR < 1.6, Not required
18	LTE 12 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.61	0.94	0.65	0.17	2.37	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	1.17	0.40	0.40	0.40	2.37	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.80	1.11	1.06	0.10	3.07	Analyzed as below

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No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
19	LTE 13 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.77	1.02	1.03	-	2.82	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.40	-	0.85	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.74	0.40	0.40	-	1.54	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.19	0.18	-	0.85	Σ SAR < 1.6, Not required
20	LTE 13 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.77	1.02	0.17	-	1.96	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.40	-	0.85	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.74	0.40	0.40	-	1.54	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.19	0.10	-	0.77	Σ SAR < 1.6, Not required
21	LTE 13 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.77	0.94	0.65	0.17	2.53	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.40	0.40	1.25	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.74	0.40	0.40	0.40	1.94	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.48	1.11	1.06	0.10	2.75	Analyzed as below

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No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
22	LTE 14 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	1.13	1.02	1.03	-	3.18	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.40	-	0.86	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.86	0.40	0.40	-	1.66	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.53	0.19	0.18	-	0.90	Σ SAR < 1.6, Not required
23	LTE 14 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	1.13	1.02	0.17	-	2.32	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.40	-	0.86	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.86	0.40	0.40	-	1.66	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.53	0.19	0.10	-	0.82	Σ SAR < 1.6, Not required
24	LTE 14 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	1.13	0.94	0.65	0.17	2.89	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.40	0.40	1.26	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.86	0.40	0.40	0.40	2.06	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.53	1.11	1.06	0.10	2.80	Analyzed as below

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No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
25	LTE 17 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.33	1.02	1.03	-	2.38	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.47	0.40	0.40	-	1.27	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.31	0.19	0.18	-	0.68	Σ SAR < 1.6, Not required
26	LTE 17 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.33	1.02	0.17	-	1.52	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.47	0.40	0.40	-	1.27	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.31	0.19	0.10	-	0.60	Σ SAR < 1.6, Not required
27	LTE 17 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.33	0.94	0.65	0.17	2.09	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.47	0.40	0.40	0.40	1.67	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.31	1.11	1.06	0.10	2.58	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
28	LTE 25 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	1.06	1.02	1.03	-	3.11	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.39	0.40	0.40	-	1.19	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.18	0.19	0.18	-	1.55	Σ SAR < 1.6, Not required
29	LTE 25 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	1.06	1.02	0.17	-	2.25	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.39	0.40	0.40	-	1.19	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.18	0.19	0.10	-	1.47	Σ SAR < 1.6, Not required
30	LTE 25 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	1.06	0.94	0.65	0.17	2.82	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Analyzed as below
			Right Side	0.00	0.40	0.40	0.40	1.20	Analyzed as below
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.39	0.40	0.40	0.40	1.59	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.18	1.11	1.06	0.10	3.45	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
31	LTE 26 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.88	1.02	1.03	-	2.93	Analyzed as below
			Left Side	0.04	0.40	0.40	-	0.84	Σ SAR < 1.6, Not required
			Right Side	0.18	0.40	0.40	-	0.98	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.69	0.40	0.40	-	1.49	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.19	0.18	-	0.85	Σ SAR < 1.6, Not required
32	LTE 26 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.88	1.02	0.17	-	2.07	Analyzed as below
			Left Side	0.04	0.40	0.40	-	0.84	Σ SAR < 1.6, Not required
			Right Side	0.18	0.40	0.40	-	0.98	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.69	0.40	0.40	-	1.49	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.19	0.10	-	0.77	Σ SAR < 1.6, Not required
33	LTE 26 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.88	0.94	0.65	0.17	2.64	Analyzed as below
			Left Side	0.04	0.40	0.40	0.40	1.24	Σ SAR < 1.6, Not required
			Right Side	0.18	0.40	0.40	0.40	1.38	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.69	0.40	0.40	0.40	1.89	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.48	1.11	1.06	0.10	2.75	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
34	LTE 30 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.23	1.02	1.03	-	2.28	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.12	0.40	0.40	-	0.92	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.17	0.19	0.18	-	0.54	Σ SAR < 1.6, Not required
35	LTE 30 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.23	1.02	0.17	-	1.42	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.12	0.40	0.40	-	0.92	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.17	0.19	0.10	-	0.46	Σ SAR < 1.6, Not required
36	LTE 30 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.23	0.94	0.65	0.17	1.99	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.12	0.40	0.40	0.40	1.32	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.17	1.11	1.06	0.10	2.44	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
37	LTE 38 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.97	1.02	1.03	-	3.02	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.51	0.40	0.40	-	1.31	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.45	0.19	0.18	-	0.82	Σ SAR < 1.6, Not required
38	LTE 38 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.97	1.02	0.17	-	2.16	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.51	0.40	0.40	-	1.31	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.45	0.19	0.10	-	0.74	Σ SAR < 1.6, Not required
39	LTE 38 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.97	0.94	0.65	0.17	2.73	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.51	0.40	0.40	0.40	1.71	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.45	1.11	1.06	0.10	2.72	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
40	LTE 41 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.36	1.02	1.03	-	2.41	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.16	0.40	0.40	-	0.96	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.16	0.19	0.18	-	0.53	Σ SAR < 1.6, Not required
41	LTE 41 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.36	1.02	0.17	-	1.55	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.16	0.40	0.40	-	0.96	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.16	0.19	0.10	-	0.45	Σ SAR < 1.6, Not required
42	LTE 41 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.36	0.94	0.65	0.17	2.12	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.16	0.40	0.40	0.40	1.36	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.16	1.11	1.06	0.10	2.43	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	Max. SAR4	SAR Summation	SPLSR Analysis
43	LTE 66 + WLAN Ant-0 (DTS) + WLAN Ant-1 (DTS)	Body (Tablet PC Mode)	Rear Face	0.87	1.02	1.03	-	2.92	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.52	-	1.17	Σ SAR < 1.6, Not required
			Bottom Side	0.45	0.40	0.40	-	1.25	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.60	0.19	0.18	-	0.97	Σ SAR < 1.6, Not required
44	LTE 66 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.87	1.02	0.17	-	2.06	Analyzed as below
			Left Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.65	0.10	-	0.75	Σ SAR < 1.6, Not required
			Bottom Side	0.45	0.40	0.40	-	1.25	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.60	0.19	0.10	-	0.89	Σ SAR < 1.6, Not required
45	LTE 66 + WLAN Ant-0 (NII) + WLAN Ant-1 (NII) + BT (DSS)	Body (Tablet PC Mode)	Rear Face	0.87	0.94	0.65	0.17	2.63	Analyzed as below
			Left Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.40	1.20	Σ SAR < 1.6, Not required
			Top Side	0.00	1.35	1.45	0.10	2.90	Analyzed as below
			Bottom Side	0.45	0.40	0.40	0.40	1.65	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.60	1.11	1.06	0.10	2.87	Analyzed as below

FCC SAR Test Report

<T77W968 + QCNFA344A>

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
1	WCDMA II + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	1.17	0.33	0.04	1.54	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Top Side	0.00	0.13	0.01	0.14	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.21	0.96	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.14	0.19	0.02	1.35	Σ SAR < 1.6, Not required
2	WCDMA II + WLAN Ant-0 (NII) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	1.17	0.22	0.04	1.43	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Top Side	0.00	0.48	0.01	0.49	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.21	0.96	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.14	0.47	0.02	1.63	Analyzed as below
3	WCDMA II + WLAN (DTS) + WLAN (NII)	Body (Tablet PC Mode)	Rear Face	1.17	0.53	0.22	1.92	Analyzed as below
			Left Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.28	0.48	0.76	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.14	0.40	0.47	2.01	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
4	WCDMA IV + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.83	0.33	0.04	1.20	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Top Side	0.00	0.13	0.01	0.14	Σ SAR < 1.6, Not required
			Bottom Side	0.18	0.40	0.21	0.79	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.06	0.19	0.02	1.27	Σ SAR < 1.6, Not required
5	WCDMA IV + WLAN Ant-0 (NII) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.83	0.22	0.04	1.09	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Top Side	0.00	0.48	0.01	0.49	Σ SAR < 1.6, Not required
			Bottom Side	0.18	0.40	0.21	0.79	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.06	0.47	0.02	1.55	Σ SAR < 1.6, Not required
6	WCDMA IV + WLAN (DTS) + WLAN (NII)	Body (Tablet PC Mode)	Rear Face	0.83	0.53	0.22	1.58	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.28	0.48	0.76	Σ SAR < 1.6, Not required
			Bottom Side	0.18	0.40	0.40	0.98	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	1.06	0.40	0.47	1.93	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
7	WCDMA V + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.76	0.33	0.04	1.13	Σ SAR < 1.6, Not required
			Left Side	0.06	0.40	0.21	0.67	Σ SAR < 1.6, Not required
			Right Side	0.13	0.40	0.21	0.74	Σ SAR < 1.6, Not required
			Top Side	0.00	0.13	0.01	0.14	Σ SAR < 1.6, Not required
			Bottom Side	0.36	0.40	0.21	0.97	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.41	0.19	0.02	0.62	Σ SAR < 1.6, Not required
8	WCDMA V + WLAN Ant-0 (NII) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.76	0.22	0.04	1.02	Σ SAR < 1.6, Not required
			Left Side	0.06	0.40	0.21	0.67	Σ SAR < 1.6, Not required
			Right Side	0.13	0.40	0.21	0.74	Σ SAR < 1.6, Not required
			Top Side	0.00	0.48	0.01	0.49	Σ SAR < 1.6, Not required
			Bottom Side	0.36	0.40	0.21	0.97	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.41	0.47	0.02	0.90	Σ SAR < 1.6, Not required
9	WCDMA V + WLAN (DTS) + WLAN (NII)	Body (Tablet PC Mode)	Rear Face	0.76	0.53	0.22	1.51	Σ SAR < 1.6, Not required
			Left Side	0.06	0.40	0.40	0.86	Σ SAR < 1.6, Not required
			Right Side	0.13	0.40	0.40	0.93	Σ SAR < 1.6, Not required
			Top Side	0.00	0.28	0.48	0.76	Σ SAR < 1.6, Not required
			Bottom Side	0.36	0.40	0.40	1.16	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.41	0.40	0.47	1.28	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
10	LTE 5 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.84	0.33	0.04	1.21	Σ SAR < 1.6, Not required
			Left Side	0.03	0.40	0.21	0.64	Σ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.21	0.73	Σ SAR < 1.6, Not required
			Top Side	0.00	0.13	0.01	0.14	Σ SAR < 1.6, Not required
			Bottom Side	0.62	0.40	0.21	1.23	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.19	0.02	0.69	Σ SAR < 1.6, Not required
11	LTE 5 + WLAN Ant-0 (NII) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.84	0.22	0.04	1.10	Σ SAR < 1.6, Not required
			Left Side	0.03	0.40	0.21	0.64	Σ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.21	0.73	Σ SAR < 1.6, Not required
			Top Side	0.00	0.48	0.01	0.49	Σ SAR < 1.6, Not required
			Bottom Side	0.62	0.40	0.21	1.23	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.47	0.02	0.97	Σ SAR < 1.6, Not required
12	LTE 5 + WLAN (DTS) + WLAN (NII)	Body (Tablet PC Mode)	Rear Face	0.84	0.53	0.22	1.59	Σ SAR < 1.6, Not required
			Left Side	0.03	0.40	0.40	0.83	Σ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.40	0.92	Σ SAR < 1.6, Not required
			Top Side	0.00	0.28	0.48	0.76	Σ SAR < 1.6, Not required
			Bottom Side	0.62	0.40	0.40	1.42	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.40	0.47	1.35	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
13	LTE 7 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.58	0.33	0.04	0.95	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Top Side	0.00	0.13	0.01	0.14	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.21	0.96	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.27	0.19	0.02	0.48	Σ SAR < 1.6, Not required
14	LTE 7 + WLAN Ant-0 (NII) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.58	0.22	0.04	0.84	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Top Side	0.00	0.48	0.01	0.49	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.21	0.96	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.27	0.47	0.02	0.76	Σ SAR < 1.6, Not required
15	LTE 7 + WLAN (DTS) + WLAN (NII)	Body (Tablet PC Mode)	Rear Face	0.58	0.53	0.22	1.33	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.28	0.48	0.76	Σ SAR < 1.6, Not required
			Bottom Side	0.35	0.40	0.40	1.15	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.27	0.40	0.47	1.14	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
16	LTE 12 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.61	0.33	0.04	0.98	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Top Side	0.00	0.13	0.01	0.14	Σ SAR < 1.6, Not required
			Bottom Side	1.17	0.40	0.21	1.78	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.80	0.19	0.02	1.01	Σ SAR < 1.6, Not required
17	LTE 12 + WLAN Ant-0 (NII) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.61	0.22	0.04	0.87	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Top Side	0.00	0.48	0.01	0.49	Σ SAR < 1.6, Not required
			Bottom Side	1.17	0.40	0.21	1.78	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.80	0.47	0.02	1.29	Σ SAR < 1.6, Not required
18	LTE 12 + WLAN (DTS) + WLAN (NII)	Body (Tablet PC Mode)	Rear Face	0.61	0.53	0.22	1.36	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Top Side	0.00	0.28	0.48	0.76	Σ SAR < 1.6, Not required
			Bottom Side	1.17	0.40	0.40	1.97	Analyzed as below
		Body (Laptop PC Mode)	Bottom	0.80	0.40	0.47	1.67	Analyzed as below

FCC SAR Test Report

No.	Conditions (SAR1+ SAR2 + SAR3) & (SAR1+ SAR2 + SAR3 + SAR4)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
19	LTE 13 + WLAN Ant-0 (DTS) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.77	0.33	0.04	1.14	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.21	0.66	Σ SAR < 1.6, Not required
			Top Side	0.00	0.13	0.01	0.14	Σ SAR < 1.6, Not required
			Bottom Side	0.74	0.40	0.21	1.35	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.19	0.02	0.69	Σ SAR < 1.6, Not required
20	LTE 13 + WLAN Ant-0 (NII) + BT Ant-1 (DSS)	Body (Tablet PC Mode)	Rear Face	0.77	0.22	0.04	1.03	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.21	0.61	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.21	0.66	Σ SAR < 1.6, Not required
			Top Side	0.00	0.48	0.01	0.49	Σ SAR < 1.6, Not required
			Bottom Side	0.74	0.40	0.21	1.35	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.47	0.02	0.97	Σ SAR < 1.6, Not required
21	LTE 13 + WLAN (DTS) + WLAN (NII)	Body (Tablet PC Mode)	Rear Face	0.77	0.53	0.22	1.52	Σ SAR < 1.6, Not required
			Left Side	0.00	0.40	0.40	0.80	Σ SAR < 1.6, Not required
			Right Side	0.05	0.40	0.40	0.85	Σ SAR < 1.6, Not required
			Top Side	0.00	0.28	0.48	0.76	Σ SAR < 1.6, Not required
			Bottom Side	0.74	0.40	0.40	1.54	Σ SAR < 1.6, Not required
		Body (Laptop PC Mode)	Bottom	0.48	0.40	0.47	1.35	Σ SAR < 1.6, Not required