

FCC SAR Test Report

Report No. : SA170109C47
Applicant : Sierra Wireless Inc.
Address : 13811 Wireless Way Richmond, BC Canada
Product : Wireless Modules
FCC ID : N7NEM7455-D6
Brand : Sirerra Wireless
Model No. : EM7455
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
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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.

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Release Control Record

Report No.	Reason for Change	Date Issued
SA170109C47	Initial release	Jun. 23, 2017

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1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Body SAR _{1g} (W/kg)			
		Tablet PC		Laptop PC	
		EUT 1	EUT 2	EUT 1	EUT 2
PCB	WCDMA II	1.17	1.22	0.9	0.47
	WCDMA IV	1.02	1.11	0.62	0.47
	WCDMA V	1.19	0.84	0.26	0.26
	LTE 2	1.25	1.36	0.77	0.50
	LTE 4	1.26	1.34	0.24	0.43
	LTE 5	0.99	0.77	0.22	0.23
	LTE 7	0.85	0.66	0.16	0.25
	LTE 12	1.15	0.68	0.14	0.14
	LTE 13	1.23	1.17	0.17	0.19
	LTE 25	1.32	1.38	0.92	0.53
	LTE 26	1.18	1.02	0.21	0.22
	LTE 41	0.57	1.07	0.03	0.06
Equipment Class	Mode	Highest Reported Body SAR _{1g} (W/kg)			
		WLAN Module			
		EUT 1		EUT 2	
DTS	2.4G WLAN	1.01		0.91	
NII	5.3G WLAN	1.31		1.17	
	5.6G WLAN	1.36		1.21	
	5.8G WLAN	0.97		1.22	
DSS	Bluetooth	0.35		0.35	
DXX	NFC	N/A		N/A	
Highest Simultaneous Transmission SAR		Body (W/kg)			
		WLAN Module			
		EUT 1		EUT 2	
PCB + DTS Ant0 + DTS Ant1		1.41		1.27	
PCB + NII Ant0 + NII Ant1		1.43		1.27	
PCB + DTS Ant0 + DSS Ant1		1.34		1.22	
PCB + NII Ant0 + DSS Ant1		1.34		1.22	

Note:

1. The SAR limit (**Head & Body: SAR_{1g} 1.6 W/kg, Extremity: SAR_{10g} 4.0 W/kg**) for general population / uncontrolled exposure is specified in ISSED RSS-102 Issue 5:2015.
2. Since the models of P29S have the same WLAN and BT feature, the test data for WLAN SAR in RF Exposure Lab report is referring to SAR report (Test Report No.: SAR.20170206 & SAR.20170207, Issue Date: Jan. 25-29 & Feb. 8-11, 2017).

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2. Description of Equipment Under Test

EUT Type	Wireless Modules
FCC ID	N7NEM7455-D6
Brand Name	Sirerra Wireless
Model Name	EM7455
EUT Configurations	EUT 1: EUT + Antenna 1 (Auden) EUT 2: EUT + Antenna 2 (Hong-Bo)
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 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 41 : 2498.5 ~ 2687.5 (BW: 5M, 10M, 15M, 20M) WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 Bluetooth : 2402 ~ 2480
Uplink Modulations	GSM & GPRS : GMSK EDGE : 8PSK WCDMA : QPSK CDMA : QPSK LTE : QPSK, 16QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, $\pi/4$ -DQPSK, 8-DPSK
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.6.1 of this report.
Antenna Type	Refer to Note
EUT Stage	Production Unit

Note:

1. The EUT was installed in Portable Computer (Brand: DELL, Model: T02J / T02J001).
2. The information of WLAN and WWAN module collocated in this EUT is listed as below.

Item	Brand Name	Model Name	Specification
WLAN module	Intel	8265NGW	2T2R 802.11 a/b/g/n/ac WLAN+ Bluetooth

3. The antenna information is listed as below.

Antenna Type	Manufacturer	Parts Number	WLAN - Antenna Gain (dBi)			
			WLAN 2.4 GHz	WLAN 5.15~5.35 GHz	WLAN 5.47~5.725 GHz	WLAN 5.725~5.825 GHz
PIFA	Auden	WLAN Main Ant.: A30713-30 WLAN Aux Ant.: A30714-30	-1.9	0.57	1.1	-1.29
	Hong-Bo	WLAN Main Ant.: 260-24154 WLAN Aux Ant.: 260-24155	-2.87	-1.52	-0.69	-1.25

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Antenna Type	Manufacturer	Parts Number	WWAN - Antenna Gain (dBi)								
			LTE 2 / WCDMA II	LTE 4 / WCDMA IV	LTE 5 / WCDMA V	LTE B7	LTE B12	LTE B13	LTE B25	LTE B26	LTE B41
monopole + coupling	Auden	Tx/ Rx1 Ant.: A30711-00 Rx2 Ant.: A30712-00	1.00	2.44	0.75	0.97	-0.25	1.39	1.00	0.80	0.97
coupling	Hong-Bo	Tx/ Rx1 Ant.: 260-24153 Rx2 Ant.: 260-24152	2.00	1.39	-	2.29	-	-	2.00	-0.59	2.29

4. 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	Brand Name	DELL
	Model Name	YX0XH
	Power Rating	7.6 Vdc, 34 Wh
	Type	Li-ion
M Base	Brand Name	DELL
	Model Name	K17M
WC Base	Product	Wireless Charging Keyboard
	Brand Name	DELL
	Model Name	K02T
	Power Supply Rating	20Vdc
	FCC ID	E2K-K02T
	Modulation Type	GFSK
	Transfer Rate	1Mbps
	Operating Frequency	2402 ~ 2480 MHz
	Output Power	1.5mW (1.76 dBm)
	Antenna Type	Ceramic antenna with 0.5dBi gain

Note :

1. Wireless Charging Keyboard Not SAR required.

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 from the optical into digital electric signal of the DAE and transfers data to the PC.

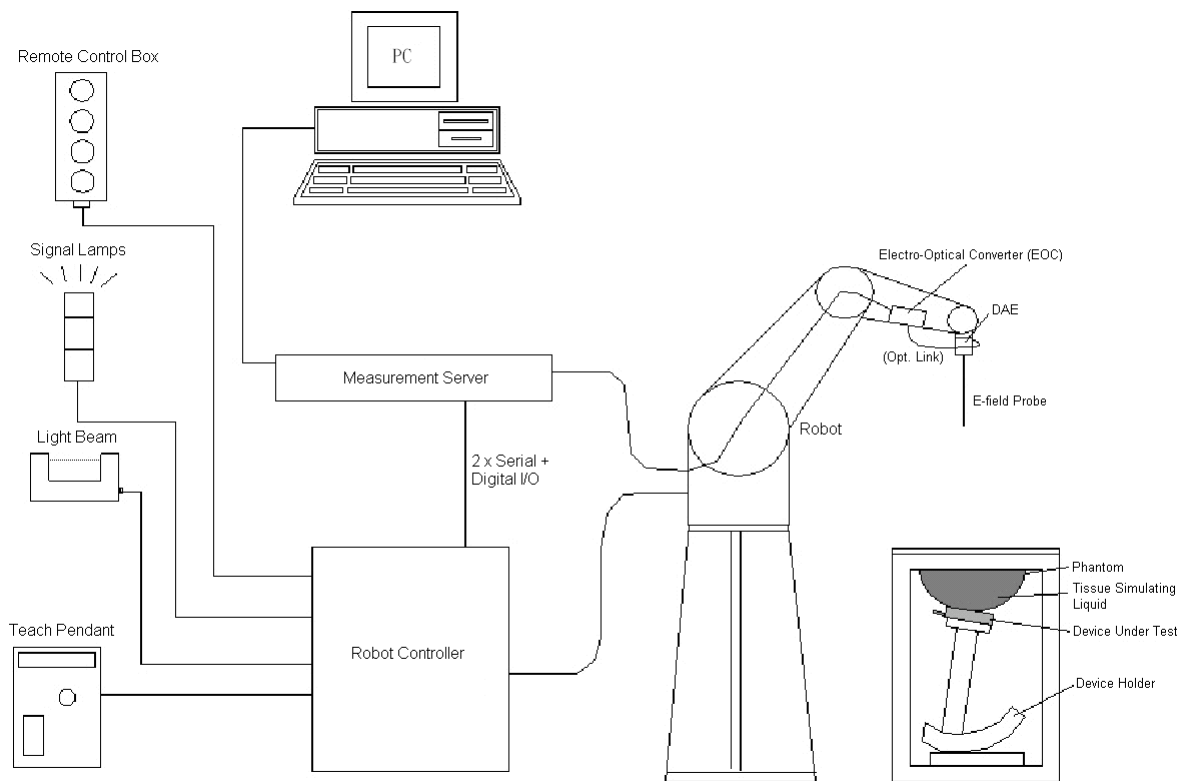


Fig-3.1 SPEAG DASY52 System Setup

3.2.1 Robot

The DASY52 system uses 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	

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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	< 5µV (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

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	

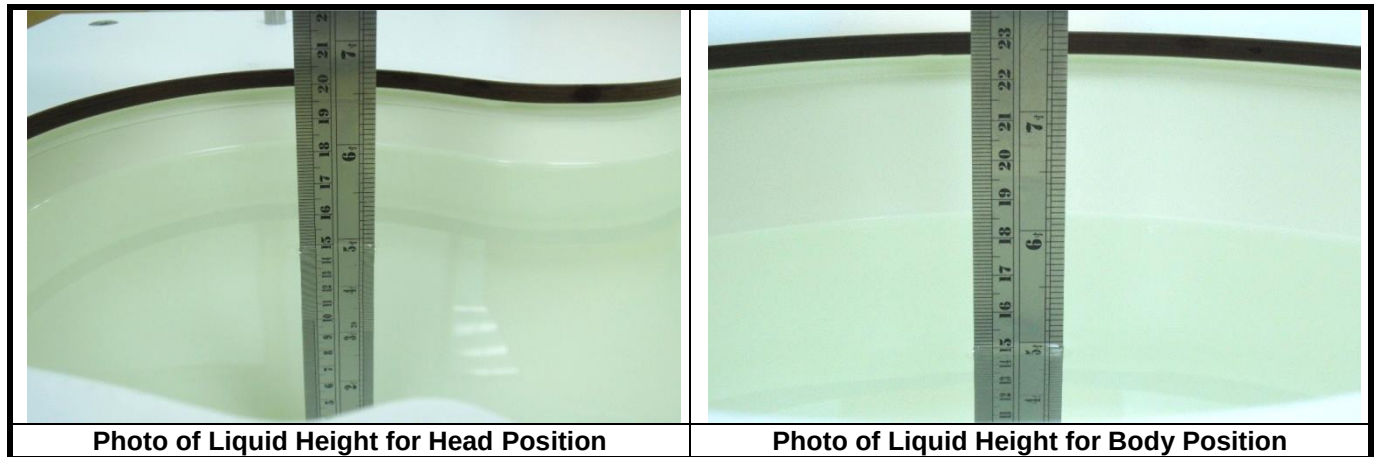
Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the 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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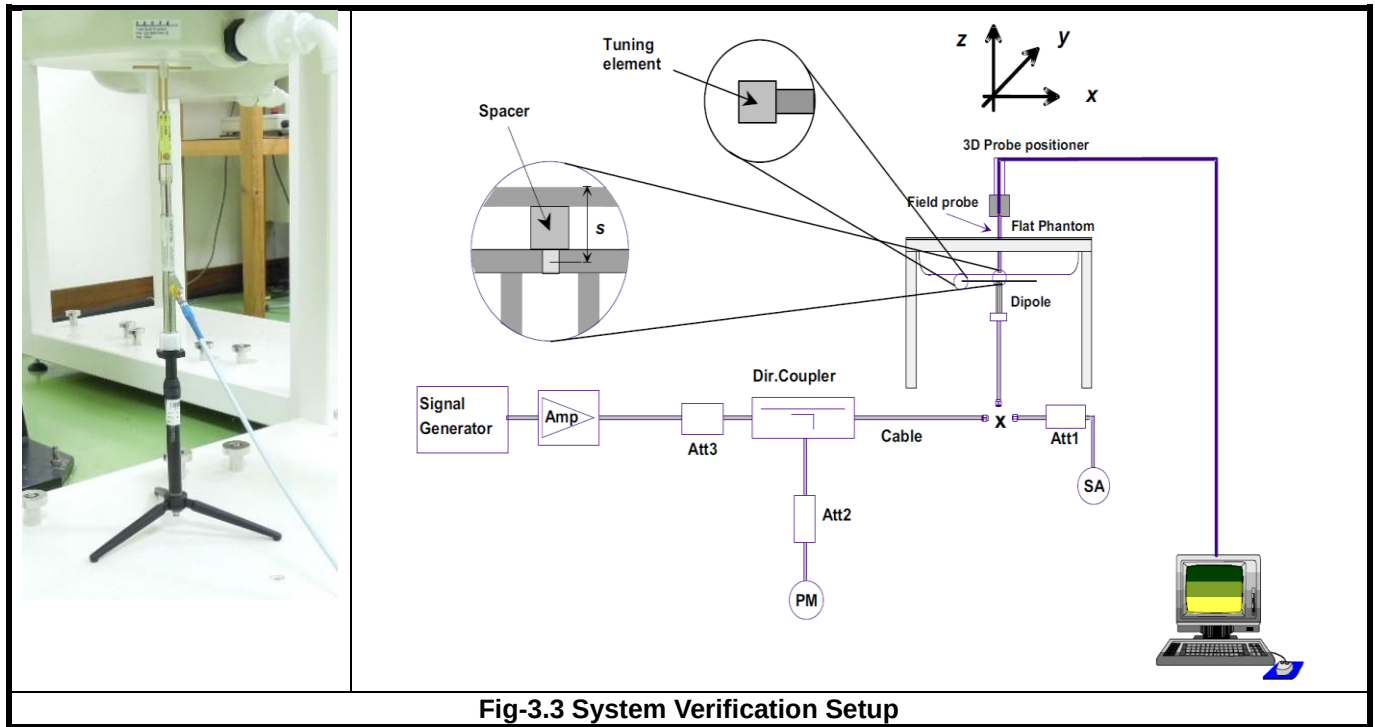
The following table gives the recipes for tissue simulating liquids.

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.



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, Right Side 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.

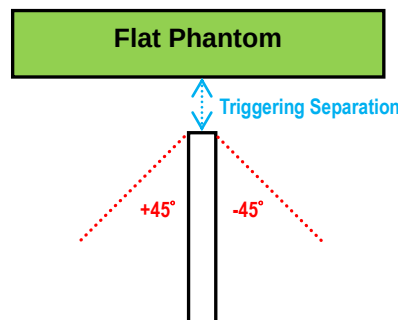
Output Power Verification in dBm for EUT Rear Face											
Distance (mm)	11	12	13	14	15	16	17	18	19	20	21
WCDMA II	15.1	15.4	15.1	15.4	15.2	15.3	23.0	22.9	22.7	22.9	22.9
WCDMA IV	15.2	15.4	15.5	15.1	15.4	15.3	22.7	22.9	22.6	22.8	23.1
WCDMA V	19.4	19.6	19.8	19.6	19.6	19.9	22.5	22.2	22.4	22.3	22.2
LTE 2	15.9	15.4	15.5	15.6	15.7	15.8	22.9	22.8	22.9	22.9	22.5
LTE 4	16.3	16.0	16.2	15.9	16.0	16.2	22.8	22.7	22.5	22.9	22.6
LTE 5	18.9	19.2	19.2	19.4	19.2	19.1	21.9	22.2	22.1	22.2	22.2
LTE 7	13.1	13.1	13.1	13.0	13.1	13.2	21.6	21.3	21.2	21.4	21.5
LTE 12	16.8	16.6	16.6	17.1	16.7	16.8	22.6	22.7	22.5	22.5	22.9
LTE 13	19.0	18.8	19.2	18.9	19.3	19.1	22.7	22.6	22.5	22.3	22.8
LTE 25	15.9	15.8	15.6	15.9	15.8	15.4	23.1	23.0	22.8	22.9	22.8
LTE 26	19.6	19.2	19.3	19.6	19.1	19.1	22.2	22.3	22.4	22.4	22.2
LTE 41	15.8	15.8	15.6	16.1	15.8	15.9	21.6	21.8	21.8	21.4	21.7

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°
Right Edge	12	On	On	On	On	On	On	On	On	On	On	On
Bottom Edge	16	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 16 mm for EUT Rear Face, 12 mm for Right Side and 16 mm for Bottom Side. The separation distance of 12 mm determined by the smallest triggering distance on Right Side and 16 mm for 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 12 mm for the Right Side and 16 mm for 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 15 mm for EUT Rear Face / Bottom Side, and 11 mm for Right 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.

<Connections between EUT and System Simulator>

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

<Considerations Related to WCDMA for Setup and Testing>

Handsets with Release 5 HSDPA

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

Handsets with Release 6 HSUPA

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

Release 5 HSDPA Data Devices

The 3G SAR test reduction procedure is applied to body SAR with 12.2 kbps RMC as the primary mode. Otherwise, body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH / HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) are set according to values indicated in below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾	MPR
1	2 / 15	15 / 15	64	2 / 15	4 / 15	0.0	0
2	12 / 15 ⁽³⁾	15 / 15 ⁽³⁾	64	12 / 15 ⁽³⁾	24 / 15	1.0	0
3	15 / 15	8 / 15	64	15 / 8	30 / 15	1.5	0.5
4	15 / 15	4 / 15	64	15 / 4	30 / 15	1.5	0.5

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

Note 2: CM = 1 for $\beta_c / \beta_d = 12 / 15$, $\beta_{hs} / \beta_c = 24 / 15$.

Note 3: For subtest 2 the β_c / β_d ratio of 12 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11 / 15$ and $\beta_d = 15 / 15$.

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Release 6 HSUPA Data Devices

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

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

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

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

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

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

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

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

<Considerations Related to LTE for Setup and Testing>

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

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

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

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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

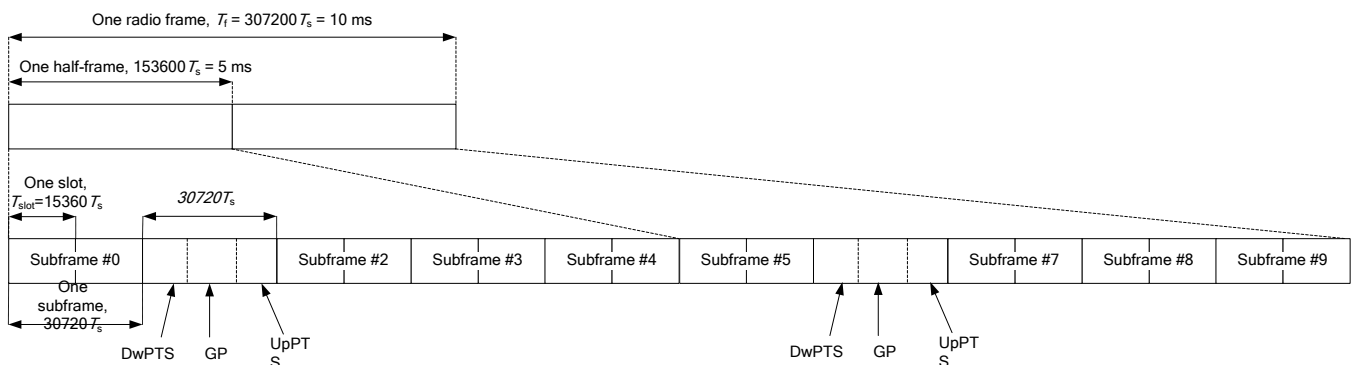
Note: MPR is according to the standard and implemented in the circuit (mandatory).

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

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

TDD-LTE Setup Configurations

According to KDB 941225 D05, SAR testing for TDD-LTE device must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD-LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be referred to below.



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	4384 • Ts	5120 • Ts	7680 • Ts	4384 • Ts	5120 • Ts
5	6592 • Ts			20480 • 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

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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

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%

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

<Considerations Related to WLAN for Setup and Testing>

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

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

Initial Test Configuration

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

Subsequent Test Configuration

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. When the highest reported SAR for the initial test configuration according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

SAR Test Configuration and Channel Selection

When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is using largest channel bandwidth, lowest order modulation, lowest data rate, and lowest order 802.11 mode (i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n). After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following.

- 1) The channel closest to mid-band frequency is selected for SAR measurement.
- 2) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

4.2 EUT Testing Position

4.2.1 Body Exposure Conditions

For laptop PC with antennas built-in on display screen, according to RSS-102 Supplementary procedures (SPR-001), IC requires SAR measurements to be performed with the side/edge of the display screen containing the built-in antenna pointing towards the flat phantom, unless the side/edge of the laptop computer containing the built-in antenna was already tested against the flat phantom to account for the user requirements (e.g. antenna in the laptop base). The separation distance shall not exceed 25 mm between the device and the flat phantom to show compliance for bystanders. Additional configurations regarding SAR testing for laptop computer are not required if the separation distance of 25 mm for bystanders represents the worst-case configuration.

The bystander SAR measurement procedure is as following.

1. If the integrated antenna is located in the back side of the display screen, the back side shall be facing towards the flat phantom at a distance not exceeding 25 mm.
2. If the integrated antenna is installed along the edge of the display screen, the edge shall be facing towards the flat phantom at a distance not exceeding 25 mm.
3. If the integrated antenna is installed at the corner of the display, both edges, as well as back side shall be tested to ensure that the worst-case configuration is captured.

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.

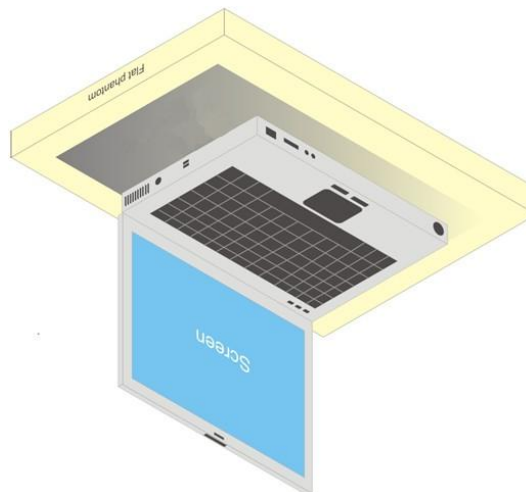


Fig-4.1 Illustration for Laptop Setup

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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.

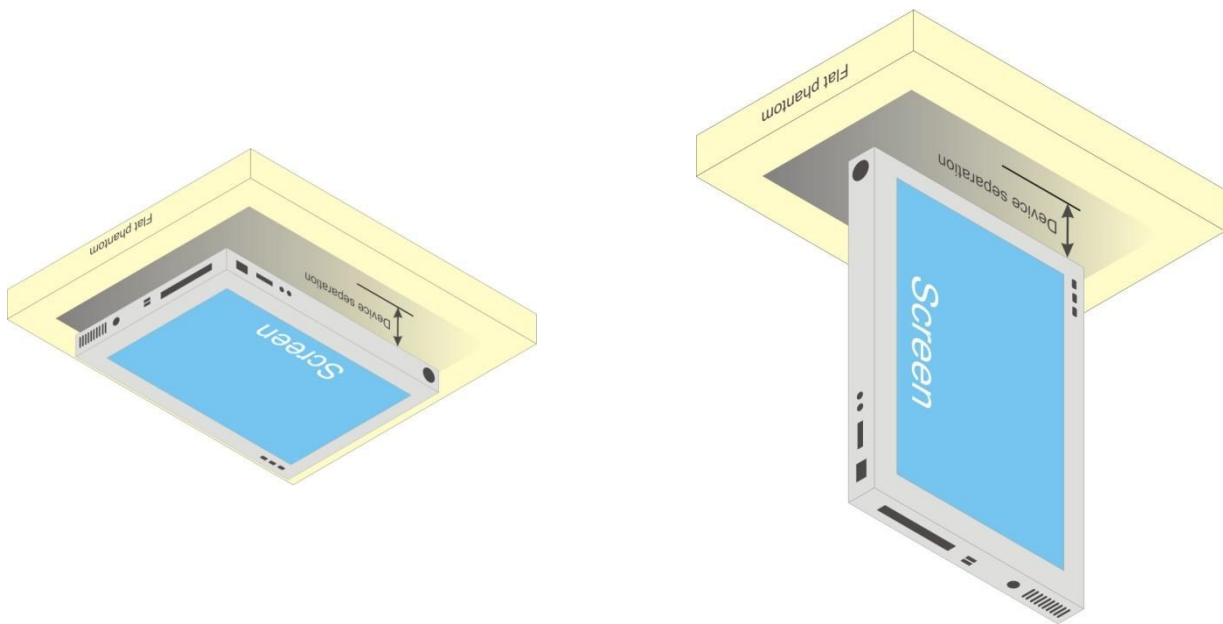


Fig-4.2 Illustration for Tablet Setup

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4.2.2 SAR Test Exclusion Evaluations

According to RSS-102, 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.

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Left Side			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Power Threshold (mW)	Require SAR Testing?	Ant. to Surface (mm)	Power Threshold (mW)	Require SAR Testing?	Ant. to Surface (mm)	Power Threshold (mW)	Require SAR Testing?	Ant. to Surface (mm)	Power Threshold (mW)	Require SAR Testing?	Ant. to Surface (mm)	Power Threshold (mW)	Require SAR Testing?
WCDMA II	24	251.19	5	69.4	YES	205.8 2	1667 mW	No	5	69.4	YES	192.9 5	1538 mW	No	5	69.4	YES
WCDMA IV	24	251.19	5	66.5	YES	205.8 2	1671 mW	No	5	66.5	YES	192.9 5	1543 mW	No	5	66.5	YES
WCDMA V	24	251.19	5	46.2	YES	205.8 2	1043 mW	No	5	46.2	YES	192.9 5	970 mW	No	5	46.2	YES
LTE 2	24	251.19	5	69.4	YES	205.8 2	1667 mW	No	5	69.4	YES	192.9 5	1538 mW	No	5	69.4	YES
LTE 4	24	251.19	5	66.5	YES	205.8 2	1671 mW	No	5	66.5	YES	192.9 5	1543 mW	No	5	66.5	YES
LTE 5	24	251.19	5	46.2	YES	205.8 2	1043 mW	No	5	46.2	YES	192.9 5	970 mW	No	5	46.2	YES
LTE 7	23	199.53	5	63.8	YES	205.8 2	1652 mW	No	5	63.8	YES	192.9 5	1523 mW	No	5	63.8	YES
LTE 12	24	251.19	5	42.5	YES	205.8 2	919 mW	No	5	42.5	YES	192.9 5	858 mW	No	5	42.5	YES
LTE 13	24	251.19	5	44.5	YES	205.8 2	985 mW	No	5	44.5	YES	192.9 5	917 mW	No	5	44.5	YES
LTE 25	24	251.19	5	69.5	YES	205.8 2	1667 mW	No	5	69.5	YES	192.9 5	1538 mW	No	5	69.5	YES
LTE 26	24	251.19	5	46.3	YES	205.8 2	1045 mW	No	5	46.3	YES	192.9 5	972 mW	No	5	46.3	YES
LTE 41	23	199.53	5	65.5	YES	205.8 2	1650 mW	No	5	65.5	YES	192.9 5	1521 mW	No	5	65.5	YES

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4.2.3 Simultaneous Transmission Possibilities

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

Simultaneous TX Combination	Capable Transmit Configurations	Body Exposure Condition
1	WCDMA II (Data) + WLAN (Data)	Yes
2	WCDMA IV (Data) + WLAN (Data)	Yes
3	WCDMA V (Data) + WLAN (Data)	Yes
4	LTE 2 (Data) + WLAN (Data)	Yes
5	LTE 4 (Data) + WLAN (Data)	Yes
6	LTE 5 (Data) + WLAN (Data)	Yes
7	LTE 7 (Data) + WLAN (Data)	Yes
8	LTE 12 (Data) + WLAN (Data)	Yes
9	LTE 13 (Data) + WLAN (Data)	Yes
10	LTE 25 (Data) + WLAN (Data)	Yes
11	LTE 26 (Data) + WLAN (Data)	Yes
12	LTE 41 (Data) + WLAN (Data)	Yes
13	WCDMA II (Data) + BT (Data)	Yes
14	WCDMA IV (Data) + BT (Data)	Yes
15	WCDMA V (Data) + BT (Data)	Yes
16	LTE 2 (Data) + BT (Data)	Yes
17	LTE 4 (Data) + BT (Data)	Yes
18	LTE 5 (Data) + BT (Data)	Yes
19	LTE 7 (Data) + BT (Data)	Yes
20	LTE 12 (Data) + BT (Data)	Yes
21	LTE 13 (Data) + BT (Data)	Yes
22	LTE 25 (Data) + BT (Data)	Yes
23	LTE 26 (Data) + BT (Data)	Yes
24	LTE 41 (Data) + BT (Data)	Yes

Note :

1. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.

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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 (%)
May 04, 2017	Body	750	23.3	0.959	55.520	0.96	55.5	-0.10	0.04
May 05, 2017	Body	750	23.5	0.968	56.098	0.96	55.5	0.83	1.08
May 09, 2017	Body	750	23.3	0.958	55.485	0.96	55.5	-0.21	-0.03
May 12, 2017	Body	750	23.2	0.959	56.412	0.96	55.5	-0.10	1.64
Jun. 08, 2017	Body	750	23.5	0.962	54.170	0.96	55.5	0.21	-2.40
May 12, 2017	Body	835	23.0	0.995	56.114	0.97	55.2	2.58	1.66
May 04, 2017	Body	835	23.3	0.989	56.780	0.97	55.2	1.96	2.86
May 05, 2017	Body	835	23.5	0.974	54.366	0.97	55.2	0.41	-1.51
May 09, 2017	Body	835	23.3	0.985	54.165	0.97	55.2	1.55	-1.88
May 23, 2017	Body	835	23.3	1.012	56.703	0.97	55.2	4.33	2.72
May 08, 2017	Body	1750	23.3	1.440	51.498	1.49	53.4	-3.36	-3.56
May 11, 2017	Body	1750	23.3	1.446	51.969	1.49	53.4	-2.95	-2.68
May 14, 2017	Body	1750	23.4	1.440	51.715	1.49	53.4	-3.36	-3.16
May 22, 2017	Body	1750	23.2	1.431	51.656	1.49	53.4	-3.96	-3.27
May 08, 2017	Body	1900	23.3	1.579	51.141	1.52	53.3	3.88	-4.05
May 11, 2017	Body	1900	23.2	1.553	51.806	1.52	53.3	2.17	-2.80
May 14, 2017	Body	1900	23.4	1.554	51.475	1.52	53.3	2.24	-3.42
May 22, 2017	Body	1900	23.2	1.566	51.203	1.52	53.3	3.03	-3.93
May 09, 2017	Body	2600	23.0	2.192	51.168	2.16	52.5	1.48	-2.54
May 14, 2017	Body	2600	23.2	2.190	51.232	2.16	52.5	1.39	-2.42
Jun. 08, 2017	Body	2600	23.5	2.205	51.665	2.16	52.5	2.08	-1.59

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
May 04, 2017	3650	Body	750	0.959	55.520	Pass	Pass	Pass	N/A	N/A	N/A
May 05, 2017	3820	Body	750	0.968	56.098	Pass	Pass	Pass	N/A	N/A	N/A
May 09, 2017	1790	Body	750	0.958	55.485	Pass	Pass	Pass	N/A	N/A	N/A
May. 12, 2017	3864	Body	750	0.959	56.412	Pass	Pass	Pass	N/A	N/A	N/A
Jun. 08, 2017	3971	Body	750	0.962	54.170	Pass	Pass	Pass	N/A	N/A	N/A
May 12, 2017	3864	Body	835	0.995	56.114	Pass	Pass	Pass	N/A	N/A	N/A
May 04, 2017	3650	Body	835	0.989	56.780	Pass	Pass	Pass	N/A	N/A	N/A
May 05, 2017	3820	Body	835	0.974	54.366	Pass	Pass	Pass	N/A	N/A	N/A
May 09, 2017	1790	Body	835	0.985	54.165	Pass	Pass	Pass	N/A	N/A	N/A
May 23, 2017	3820	Body	835	1.012	56.703	Pass	Pass	Pass	N/A	N/A	N/A
May 08, 2017	1790	Body	1750	1.440	51.498	Pass	Pass	Pass	N/A	N/A	N/A
May 11, 2017	1790	Body	1750	1.446	51.969	Pass	Pass	Pass	N/A	N/A	N/A
May 14, 2017	3864	Body	1750	1.440	51.715	Pass	Pass	Pass	N/A	N/A	N/A
May 22, 2017	3864	Body	1750	1.431	51.656	Pass	Pass	Pass	N/A	N/A	N/A
May 08, 2017	1790	Body	1900	1.579	51.141	Pass	Pass	Pass	N/A	N/A	N/A
May 11, 2017	1790	Body	1900	1.553	51.806	Pass	Pass	Pass	N/A	N/A	N/A
May 14, 2017	3864	Body	1900	1.554	51.475	Pass	Pass	Pass	N/A	N/A	N/A
May 22, 2017	3864	Body	1900	1.566	51.203	Pass	Pass	Pass	N/A	N/A	N/A
May 09, 2017	3820	Body	2600	2.192	51.168	Pass	Pass	Pass	N/A	N/A	N/A
May 14, 2017	3864	Body	2600	2.190	51.232	Pass	Pass	Pass	N/A	N/A	N/A
Jun. 08, 2017	3971	Body	2600	2.205	51.665	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
May 04, 2017	Body	750	8.77	2.35	9.40	7.18	1013	3650	917
May 05, 2017	Body	750	8.77	2.18	8.72	-0.57	1013	3820	916
May 09, 2017	Body	750	8.77	2.24	8.96	2.17	1013	1790	579
May. 12, 2017	Body	750	8.77	2.19	8.76	-0.11	1013	3864	579
Jun. 08, 2017	Body	750	8.77	2.34	9.36	6.73	1013	3971	1431
May 12, 2017	Body	835	9.57	2.40	9.60	0.31	4d121	3864	579
May 04, 2017	Body	835	9.57	2.33	9.32	-2.61	4d121	3650	917
May 05, 2017	Body	835	9.57	2.44	9.76	1.99	4d121	3820	916
May 09, 2017	Body	835	9.57	2.34	9.36	-2.19	4d121	1790	579
May 23, 2017	Body	835	9.57	2.54	10.16	6.17	4d121	3820	360
May 08, 2017	Body	1750	37.50	9.24	36.96	-1.44	1055	1790	579
May 11, 2017	Body	1750	37.50	9.05	36.20	-3.47	1055	1790	579
May 14, 2017	Body	1750	37.50	8.91	35.64	-4.96	1055	3864	579
May 22, 2017	Body	1750	37.50	9.06	36.24	-3.36	1055	3864	579
May 08, 2017	Body	1900	40.10	9.65	38.60	-3.74	5d036	1790	579
May 11, 2017	Body	1900	40.10	9.49	37.96	-5.34	5d036	1790	579
May 14, 2017	Body	1900	40.10	9.62	38.48	-4.04	5d036	3864	579
May 22, 2017	Body	1900	40.10	9.83	39.32	-1.95	5d036	3864	579
May 09, 2017	Body	2600	55.70	14.00	56.00	0.54	1020	3820	916
May 14, 2017	Body	2600	55.70	13.30	53.20	-4.49	1020	3864	579
Jun. 08, 2017	Body	2600	55.70	13.60	54.40	-2.33	1020	3971	1431

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 Conducted Power

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

Mode	WCDMA Band II (without Power Reduction)	WCDMA Band II (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24	16	8
HSDPA / HSUPA / DC-HSDPA	23	15	8

Mode	WCDMA Band IV (without Power Reduction)	WCDMA Band IV (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24	16	8
HSDPA / HSUPA / DC-HSDPA	23	15	8

Mode	WCDMA Band V (without Power Reduction)	WCDMA Band V (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24	20	4
HSDPA / HSUPA / DC-HSDPA	23	19	4

Mode	LTE 2 (without Power Reduction)	LTE 2 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24	16.5	7.5

Mode	LTE 4 (without Power Reduction)	LTE 4 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24	17	7

Mode	LTE 5 (without Power Reduction)	LTE 5 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24	19.5	4.5

Mode	LTE 7 (without Power Reduction)	LTE 7 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	23	13.5	9.5

Mode	LTE 12 (without Power Reduction)	LTE 12 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24	17.5	6.5

Mode	LTE 13 (without Power Reduction)	LTE 13 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24	19.5	4.5

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Mode	LTE 25 (without Power Reduction)	LTE 25 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24	16.5	7.5

Mode	LTE 26 (without Power Reduction)	LTE 26 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24	20	4

Mode	LTE 41 (without Power Reduction)	LTE 41 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	23	16.5	6.5

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	23.28	23.21	23.15	23.10	23.15	23.18	22.41	22.40	22.50	-
HSDPA Subtest-1	21.97	21.97	21.99	21.95	21.80	21.79	21.57	21.42	21.51	0
HSDPA Subtest-2	21.98	21.99	22.00	22.01	21.53	21.83	21.61	21.47	21.56	0
HSDPA Subtest-3	21.11	21.48	21.49	21.49	21.31	21.31	21.07	21.06	21.05	0.5
HSDPA Subtest-4	21.41	21.47	21.48	21.12	21.03	21.30	21.08	21.05	21.04	0.5
HSUPA Subtest-1	21.65	21.70	21.68	21.71	21.47	21.55	21.33	21.15	21.14	0
HSUPA Subtest-2	20.44	20.42	20.46	20.39	20.27	20.25	20.10	19.96	19.98	2
HSUPA Subtest-3	20.53	20.63	20.62	20.59	20.41	20.47	20.19	20.07	20.08	1
HSUPA Subtest-4	20.33	20.41	20.40	20.39	20.23	20.24	20.00	19.83	19.93	2
HSUPA Subtest-5	21.90	22.00	22.00	22.00	21.80	21.90	21.60	21.50	21.50	0
EUT with Power Reduction (P-Sensor Triggered)										
RMC 12.2K	15.59	15.43	15.57	15.51	15.55	15.37	19.92	19.78	19.74	-
HSDPA Subtest-1	14.56	14.44	14.63	14.63	14.47	14.28	18.97	18.63	18.68	0
HSDPA Subtest-2	14.56	14.46	14.63	14.27	14.47	14.29	18.98	18.67	18.73	0
HSDPA Subtest-3	14.03	13.94	14.12	14.04	13.98	13.82	18.12	18.16	18.22	0.5
HSDPA Subtest-4	14.02	13.93	14.10	14.02	13.97	13.83	18.45	18.13	18.21	0.5
HSUPA Subtest-1	14.50	14.42	14.31	14.32	14.16	13.97	17.38	17.01	17.01	0
HSUPA Subtest-2	14.29	14.21	14.10	14.28	14.12	14.04	17.82	17.55	17.50	2
HSUPA Subtest-3	14.32	14.24	14.13	14.49	14.47	14.39	17.60	17.32	17.27	1
HSUPA Subtest-4	14.07	13.96	14.09	14.14	14.05	13.91	18.19	17.91	17.90	2
HSUPA Subtest-5	14.60	14.50	14.70	14.20	14.60	14.40	18.00	17.70	17.70	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18607	Mid CH 18900	High CH 19193		Low CH 18607	Mid CH 18900	High CH 19193	
			1850.7 MHz	1880.0 MHz	1909.3 MHz		1850.7 MHz	1880.0 MHz	1909.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 1.4M	1	0	22.88	22.68	22.82	0	21.79	21.59	21.73	1
	1	2	22.75	22.60	22.44	0	21.66	21.51	21.35	1
	1	5	22.37	22.54	22.53	0	21.28	21.45	21.44	1
	3	0	22.76	22.74	22.62	0	21.67	21.65	21.53	1
	3	1	22.76	22.69	22.77	0	21.67	21.60	21.68	1
	3	3	22.61	22.71	22.66	0	21.52	21.62	21.57	1
	6	0	21.72	21.69	21.74	1	20.63	20.60	20.65	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 1.4M	1	0	15.71	15.58	15.56	0	15.55	15.42	15.40	0
	1	2	15.62	15.61	15.59	0	15.46	15.45	15.43	0
	1	5	15.47	15.46	15.44	0	15.31	15.30	15.28	0
	3	0	15.60	15.59	15.57	0	15.44	15.43	15.41	0
	3	1	15.66	15.65	15.63	0	15.50	15.49	15.47	0
	3	3	15.65	15.64	15.62	0	15.49	15.48	15.46	0
	6	0	15.64	15.63	15.61	0	15.48	15.47	15.45	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18615	Mid CH 18900	High CH 19185		Low CH 18615	Mid CH 18900	High CH 19185	
			1851.5 MHz	1880.0 MHz	1908.5 MHz		1851.5 MHz	1880.0 MHz	1908.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 3M	1	0	22.90	22.70	22.84	0	21.84	21.64	21.78	1
	1	7	22.77	22.62	22.46	0	21.71	21.56	21.40	1
	1	14	22.39	22.56	22.55	0	21.33	21.50	21.49	1
	8	0	21.78	21.76	21.64	1	20.72	20.70	20.58	2
	8	3	21.78	21.71	21.79	1	20.72	20.65	20.73	2
	8	7	21.63	21.73	21.68	1	20.57	20.67	20.62	2
	15	0	21.74	21.71	21.76	1	20.68	20.65	20.70	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 3M	1	0	15.75	15.62	15.60	0	15.61	15.48	15.46	0
	1	7	15.66	15.65	15.63	0	15.52	15.51	15.49	0
	1	14	15.51	15.50	15.48	0	15.37	15.36	15.34	0
	8	0	15.64	15.63	15.61	0	15.50	15.49	15.47	0
	8	3	15.70	15.69	15.67	0	15.56	15.55	15.53	0
	8	7	15.69	15.68	15.66	0	15.55	15.54	15.52	0
	15	0	15.68	15.67	15.65	0	15.54	15.53	15.51	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18625	Mid CH 18900	High CH 19175		Low CH 18625	Mid CH 18900	High CH 19175	
			1852.5 MHz	1880.0 MHz	1907.5 MHz		1852.5 MHz	1880.0 MHz	1907.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 5M	1	0	22.98	22.78	22.92	0	21.87	21.67	21.81	1
	1	12	22.85	22.70	22.54	0	21.74	21.59	21.43	1
	1	24	22.47	22.64	22.63	0	21.36	21.53	21.52	1
	12	0	21.86	21.84	21.72	1	20.75	20.73	20.61	2
	12	6	21.86	21.79	21.87	1	20.75	20.68	20.76	2
	12	13	21.71	21.81	21.76	1	20.60	20.70	20.65	2
	25	0	21.82	21.79	21.84	1	20.71	20.68	20.73	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 5M	1	0	15.81	15.68	15.66	0	15.69	15.56	15.54	0
	1	12	15.72	15.71	15.69	0	15.60	15.59	15.57	0
	1	24	15.57	15.56	15.54	0	15.45	15.44	15.42	0
	12	0	15.70	15.69	15.67	0	15.58	15.57	15.55	0
	12	6	15.76	15.75	15.73	0	15.64	15.63	15.61	0
	12	13	15.75	15.74	15.72	0	15.63	15.62	15.60	0
	25	0	15.74	15.73	15.71	0	15.62	15.61	15.59	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18650	Mid CH 18900	High CH 19150		Low CH 18650	Mid CH 18900	High CH 19150	
			1855.0 MHz	1880.0 MHz	1905.0 MHz		1855.0 MHz	1880.0 MHz	1905.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 10M	1	0	23.01	22.81	22.95	0	21.93	21.73	21.87	1
	1	24	22.88	22.73	22.57	0	21.80	21.65	21.49	1
	1	49	22.50	22.67	22.66	0	21.42	21.59	21.58	1
	25	0	21.89	21.87	21.75	1	20.81	20.79	20.67	2
	25	12	21.89	21.82	21.90	1	20.81	20.74	20.82	2
	25	25	21.74	21.84	21.79	1	20.66	20.76	20.71	2
	50	0	21.85	21.82	21.87	1	20.77	20.74	20.79	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 10M	1	0	15.85	15.72	15.70	0	15.74	15.61	15.59	0
	1	24	15.76	15.75	15.73	0	15.65	15.64	15.62	0
	1	49	15.61	15.60	15.58	0	15.50	15.49	15.47	0
	25	0	15.74	15.73	15.71	0	15.63	15.62	15.60	0
	25	12	15.80	15.79	15.77	0	15.69	15.68	15.66	0
	25	25	15.79	15.78	15.76	0	15.68	15.67	15.65	0
	50	0	15.78	15.77	15.75	0	15.67	15.66	15.64	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18675	Mid CH 18900	High CH 19125		Low CH 18675	Mid CH 18900	High CH 19125	
			1857.5 MHz	1880.0 MHz	1902.5 MHz		1857.5 MHz	1880.0 MHz	1902.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 15M	1	0	23.04	22.84	22.98	0	22.00	21.80	21.94	1
	1	37	22.91	22.76	22.60	0	21.87	21.72	21.56	1
	1	74	22.53	22.70	22.69	0	21.49	21.66	21.65	1
	36	0	21.92	21.90	21.78	1	20.88	20.86	20.74	2
	36	19	21.92	21.85	21.93	1	20.88	20.81	20.89	2
	36	39	21.77	21.87	21.82	1	20.73	20.83	20.78	2
	75	0	21.88	21.85	21.90	1	20.84	20.81	20.86	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 15M	1	0	15.88	15.75	15.73	0	15.81	15.68	15.66	0
	1	37	15.79	15.78	15.76	0	15.72	15.71	15.69	0
	1	74	15.64	15.63	15.61	0	15.57	15.56	15.54	0
	36	0	15.77	15.76	15.74	0	15.70	15.69	15.67	0
	36	19	15.83	15.82	15.80	0	15.76	15.75	15.73	0
	36	39	15.82	15.81	15.79	0	15.75	15.74	15.72	0
	75	0	15.81	15.80	15.78	0	15.74	15.73	15.71	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18700	Mid CH 18900	High CH 19100		Low CH 18700	Mid CH 18900	High CH 19100	
			1860.0 MHz	1880.0 MHz	1900.0 MHz		1860.0 MHz	1880.0 MHz	1900.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 20M	1	0	23.08	22.88	23.02	0	22.05	21.85	21.99	1
	1	50	22.95	22.80	22.64	0	21.92	21.77	21.61	1
	1	99	22.57	22.74	22.73	0	21.54	21.71	21.70	1
	50	0	21.96	21.94	21.82	1	20.93	20.91	20.79	2
	50	25	21.97	21.89	21.96	1	20.93	20.86	20.94	2
	50	50	21.81	21.91	21.86	1	20.78	20.88	20.83	2
	100	0	21.92	21.89	21.94	1	20.89	20.86	20.91	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 20M	1	0	15.92	15.82	15.80	0	15.89	15.76	15.74	0
	1	50	15.83	15.79	15.77	0	15.80	15.75	15.73	0
	1	99	15.68	15.67	15.65	0	15.65	15.64	15.62	0
	50	0	15.81	15.80	15.78	0	15.78	15.77	15.75	0
	50	25	15.91	15.86	15.89	0	15.84	15.83	15.81	0
	50	50	15.80	15.85	15.83	0	15.83	15.82	15.80	0
	100	0	15.85	15.84	15.82	0	15.82	15.81	15.79	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19957	Mid CH 20175	High CH 20393		Low CH 19957	Mid CH 20175	High CH 20393	
			1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 1.4M	1	0	22.68	22.79	22.69	0	21.69	21.80	21.70	1
	1	2	22.40	22.53	22.44	0	21.41	21.54	21.45	1
	1	5	22.50	22.44	22.60	0	21.51	21.45	21.61	1
	3	0	22.56	22.66	22.71	0	21.57	21.67	21.72	1
	3	1	22.68	22.65	22.65	0	21.69	21.66	21.66	1
	3	3	22.57	22.53	22.50	0	21.58	21.54	21.51	1
	6	0	21.60	21.60	21.53	1	20.61	20.61	20.54	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 1.4M	1	0	16.05	15.95	15.86	0	16.07	15.97	15.88	0
	1	2	15.94	15.83	15.80	0	15.96	15.85	15.82	0
	1	5	15.69	15.58	15.55	0	15.71	15.60	15.57	0
	3	0	16.03	15.94	15.91	0	16.01	15.96	15.93	0
	3	1	16.02	15.91	15.88	0	16.04	15.93	15.90	0
	3	3	15.94	15.83	15.80	0	15.96	15.85	15.82	0
	6	0	16.02	15.91	15.88	0	16.04	15.93	15.90	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19965	Mid CH 20175	High CH 20385		Low CH 19965	Mid CH 20175	High CH 20385	
			1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 3M	1	0	22.70	22.81	22.71	0	21.74	21.85	21.75	1
	1	7	22.42	22.55	22.46	0	21.46	21.59	21.50	1
	1	14	22.52	22.46	22.62	0	21.56	21.50	21.66	1
	8	0	21.58	21.68	21.73	1	20.62	20.72	20.77	2
	8	3	21.70	21.67	21.67	1	20.74	20.71	20.71	2
	8	7	21.59	21.55	21.52	1	20.63	20.59	20.56	2
	15	0	21.62	21.62	21.55	1	20.66	20.66	20.59	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 3M	1	0	16.11	16.01	15.92	0	16.10	16.00	15.91	0
	1	7	16.00	15.89	15.86	0	15.99	15.88	15.85	0
	1	14	15.75	15.64	15.61	0	15.74	15.63	15.60	0
	8	0	16.09	16.00	15.97	0	16.04	15.99	15.96	0
	8	3	16.08	15.97	15.94	0	16.07	15.96	15.93	0
	8	7	16.00	15.89	15.86	0	15.99	15.88	15.85	0
	15	0	16.08	15.97	15.94	0	16.07	15.96	15.93	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19975	Mid CH 20175	High CH 20375		Low CH 19975	Mid CH 20175	High CH 20375	
			1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 5M	1	0	22.78	22.89	22.79	0	21.77	21.88	21.78	1
	1	12	22.50	22.63	22.54	0	21.49	21.62	21.53	1
	1	24	22.60	22.54	22.70	0	21.59	21.53	21.69	1
	12	0	21.66	21.76	21.81	1	20.65	20.75	20.80	2
	12	6	21.78	21.75	21.75	1	20.77	20.74	20.74	2
	12	13	21.67	21.63	21.60	1	20.66	20.62	20.59	2
	25	0	21.70	21.70	21.63	1	20.69	20.69	20.62	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 5M	1	0	16.19	16.09	16.00	0	16.14	16.04	15.95	0
	1	12	16.08	15.97	15.94	0	16.03	15.92	15.89	0
	1	24	15.83	15.72	15.69	0	15.78	15.67	15.64	0
	12	0	16.17	16.08	16.05	0	16.08	16.03	16.00	0
	12	6	16.16	16.05	16.02	0	16.11	16.00	15.97	0
	12	13	16.08	15.97	15.94	0	16.03	15.92	15.89	0
	25	0	16.16	16.05	16.02	0	16.11	16.00	15.97	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20000	Mid CH 20175	High CH 20350		Low CH 20000	Mid CH 20175	High CH 20350	
			1715.0 MHz	1732.5 MHz	1750.0 MHz		1715.0 MHz	1732.5 MHz	1750.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 10M	1	0	22.85	22.96	22.86	0	21.85	21.96	21.86	1
	1	24	22.57	22.70	22.61	0	21.57	21.70	21.61	1
	1	49	22.67	22.61	22.77	0	21.67	21.61	21.77	1
	25	0	21.73	21.83	21.88	1	20.73	20.83	20.88	2
	25	12	21.85	21.82	21.82	1	20.85	20.82	20.82	2
	25	25	21.74	21.70	21.67	1	20.74	20.70	20.67	2
	50	0	21.77	21.77	21.70	1	20.77	20.77	20.70	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 10M	1	0	16.22	16.12	16.03	0	16.19	16.09	16.00	0
	1	24	16.11	16.00	15.97	0	16.08	15.97	15.94	0
	1	49	15.86	15.75	15.72	0	15.83	15.72	15.69	0
	25	0	16.20	16.11	16.08	0	16.13	16.08	16.05	0
	25	12	16.19	16.08	16.05	0	16.16	16.05	16.02	0
	25	25	16.11	16.00	15.97	0	16.08	15.97	15.94	0
	50	0	16.19	16.08	16.05	0	16.16	16.05	16.02	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20025	Mid CH 20175	High CH 20325		Low CH 20025	Mid CH 20175	High CH 20325	
			1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 15M	1	0	22.93	23.04	22.94	0	21.88	21.99	21.89	1
	1	37	22.65	22.78	22.69	0	21.60	21.73	21.64	1
	1	74	22.75	22.69	22.85	0	21.70	21.64	21.80	1
	36	0	21.81	21.91	21.96	1	20.76	20.86	20.91	2
	36	19	21.93	21.90	21.90	1	20.88	20.85	20.85	2
	36	39	21.82	21.78	21.75	1	20.77	20.73	20.70	2
	75	0	21.85	21.85	21.78	1	20.80	20.80	20.73	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 15M	1	0	16.28	16.18	16.09	0	16.23	16.13	16.04	0
	1	37	16.17	16.06	16.03	0	16.12	16.01	15.98	0
	1	74	15.92	15.81	15.78	0	15.87	15.76	15.73	0
	36	0	16.26	16.17	16.14	0	16.22	16.12	16.09	0
	36	19	16.25	16.14	16.11	0	16.20	16.09	16.06	0
	36	39	16.17	16.06	16.03	0	16.12	16.01	15.98	0
	75	0	16.25	16.14	16.11	0	16.20	16.09	16.06	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20050	Mid CH 20175	High CH 20300		Low CH 20050	Mid CH 20175	High CH 20300	
			1720.0 MHz	1732.5 MHz	1745.0 MHz		1720.0 MHz	1732.5 MHz	1745.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 20M	1	0	23.09	22.98	22.99	0	22.02	21.91	21.92	1
	1	50	22.70	22.83	22.74	0	21.63	21.76	21.67	1
	1	99	22.80	22.74	22.90	0	21.73	21.67	21.83	1
	50	0	22.01	21.86	21.96	1	20.79	20.89	20.94	2
	50	25	21.98	21.95	21.95	1	20.91	20.88	20.88	2
	50	50	21.87	21.83	21.80	1	20.80	20.76	20.73	2
	100	0	21.90	21.90	21.83	1	20.83	20.83	20.76	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 20M	1	0	16.33	16.23	16.14	0	16.27	16.17	16.08	0
	1	50	16.22	16.11	16.08	0	16.16	16.05	16.02	0
	1	99	15.97	15.86	15.83	0	15.91	15.80	15.77	0
	50	0	16.30	16.22	16.19	0	16.26	16.16	16.13	0
	50	25	16.28	16.19	16.16	0	16.24	16.13	16.10	0
	50	50	16.22	16.11	16.08	0	16.16	16.05	16.02	0
	100	0	16.30	16.19	16.16	0	16.24	16.13	16.10	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20407	Mid CH 20525	High CH 20643		Low CH 20407	Mid CH 20525	High CH 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
5 / 1.4M	1	0	22.24	22.11	22.02	0	21.20	21.07	21.03	1
	1	2	22.20	22.16	22.29	0	21.16	21.12	21.25	1
	1	5	22.09	22.20	22.02	0	21.05	21.16	21.08	1
	3	0	22.08	22.01	22.13	0	21.04	21.07	21.09	1
	3	1	22.13	22.11	22.22	0	21.09	21.07	21.18	1
	3	3	22.07	22.16	22.15	0	21.03	21.12	21.11	1
	6	0	21.11	21.16	21.32	1	20.07	20.12	20.28	2
EUT with Power Reduction (P-Sensor Triggered)										
5 / 1.4M	1	0	18.74	18.99	18.82	0	18.77	18.98	18.80	0
	1	2	18.98	19.14	19.05	0	19.11	19.30	19.17	0
	1	5	18.54	18.85	18.60	0	18.43	18.68	18.53	0
	3	0	18.47	18.79	18.56	0	18.36	18.65	18.43	0
	3	1	18.63	18.90	18.68	0	18.47	18.73	18.54	0
	3	3	18.45	18.76	18.50	0	18.41	18.71	18.49	0
	6	0	18.60	18.89	18.65	0	18.51	18.83	18.64	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20415	Mid CH 20525	High CH 20635		Low CH 20415	Mid CH 20525	High CH 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
5 / 3M	1	0	22.26	22.13	22.09	0	21.25	21.12	21.06	1
	1	7	22.22	22.18	22.31	0	21.21	21.17	21.30	1
	1	14	22.11	22.22	22.04	0	21.10	21.21	21.03	1
	8	0	21.10	21.03	21.15	1	20.09	20.02	20.14	2
	8	3	21.15	21.13	21.24	1	20.14	20.12	20.23	2
	8	7	21.09	21.18	21.17	1	20.08	20.17	20.16	2
	15	0	21.13	21.18	21.34	1	20.12	20.17	20.33	2
EUT with Power Reduction (P-Sensor Triggered)										
5 / 3M	1	0	18.86	19.06	18.90	0	18.85	19.03	18.90	0
	1	7	19.05	19.20	19.11	0	19.15	19.36	19.22	0
	1	14	18.67	18.92	18.73	0	18.53	18.76	18.61	0
	8	0	18.61	18.88	18.69	0	18.51	18.74	18.54	0
	8	3	18.76	18.97	18.80	0	18.57	18.82	18.67	0
	8	7	18.60	18.86	18.63	0	18.54	18.78	18.60	0
	15	0	18.73	18.96	18.77	0	18.62	18.92	18.81	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20425	Mid CH 20525	High CH 20625		Low CH 20425	Mid CH 20525	High CH 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
5 / 5M	1	0	22.33	22.20	22.06	0	21.29	21.16	21.02	1
	1	12	22.29	22.25	22.38	0	21.25	21.21	21.34	1
	1	24	22.18	22.29	22.11	0	21.14	21.25	21.07	1
	12	0	21.17	21.10	21.22	1	20.13	20.06	20.18	2
	12	6	21.22	21.20	21.31	1	20.18	20.16	20.27	2
	12	13	21.16	21.25	21.24	1	20.12	20.21	20.20	2
	25	0	21.20	21.25	21.41	1	20.16	20.21	20.37	2
EUT with Power Reduction (P-Sensor Triggered)										
5 / 5M	1	0	18.95	19.12	18.98	0	18.94	19.12	18.99	0
	1	12	19.11	19.25	19.16	0	19.18	19.41	19.33	0
	1	24	18.80	19.00	18.84	0	18.70	18.88	18.79	0
	12	0	18.76	18.96	18.81	0	18.67	18.85	18.70	0
	12	6	18.87	19.04	18.90	0	18.73	18.91	18.82	0
	12	13	18.75	18.95	18.77	0	18.70	18.89	18.74	0
	25	0	18.84	19.03	18.88	0	18.81	19.00	18.83	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20450	Mid CH 20525	High CH 20600		Low CH 20450	Mid CH 20525	High CH 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
5 / 10M	1	0	22.38	22.25	22.11	0	21.32	21.19	21.05	1
	1	24	22.34	22.43	22.30	0	21.28	21.24	21.37	1
	1	49	22.23	22.34	22.16	0	21.17	21.28	21.10	1
	25	0	21.22	21.15	21.27	1	20.16	20.09	20.21	2
	25	12	21.27	21.36	21.24	1	20.21	20.19	20.30	2
	25	25	21.21	21.30	21.29	1	20.15	20.24	20.23	2
	50	0	21.25	21.30	21.46	1	20.19	20.24	20.40	2
EUT with Power Reduction (P-Sensor Triggered)										
5 / 10M	1	0	19.05	19.04	19.06	0	19.02	19.17	19.05	0
	1	24	19.18	19.48	19.21	0	19.29	19.46	19.36	0
	1	49	18.91	19.00	18.95	0	18.83	18.98	18.89	0
	25	0	19.17	18.98	18.92	0	18.81	18.96	18.83	0
	25	12	19.18	19.02	18.99	0	18.86	19.00	18.91	0
	25	25	19.04	19.01	18.91	0	18.84	18.99	18.86	0
	50	0	19.10	19.08	18.98	0	18.89	19.06	18.93	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20775	Mid CH 21100	High CH 21425		Low CH 20775	Mid CH 21100	High CH 21425	
			2502.5 MHz	2535.0 MHz	2567.5 MHz		2502.5 MHz	2535.0 MHz	2567.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
7 / 5M	1	0	21.16	21.40	21.21	0	20.11	20.35	20.16	1
	1	12	21.13	21.35	21.33	0	20.08	20.30	20.28	1
	1	24	21.50	21.28	21.23	0	20.45	20.23	20.18	1
	12	0	20.16	20.32	20.10	1	19.11	19.27	19.05	2
	12	6	20.37	20.35	20.32	1	19.32	19.30	19.27	2
	12	13	20.44	20.44	20.26	1	19.39	19.39	19.21	2
	25	0	20.20	20.31	20.22	1	19.15	19.26	19.17	2
EUT with Power Reduction (P-Sensor Triggered)										
7 / 5M	1	0	12.66	12.80	12.75	0	12.66	12.80	12.75	0
	1	12	12.94	13.13	13.06	0	12.99	13.13	13.08	0
	1	24	12.76	12.88	12.82	0	12.78	12.88	12.79	0
	12	0	12.83	12.96	12.87	0	12.82	12.96	12.89	0
	12	6	12.94	13.10	13.05	0	12.98	13.10	13.03	0
	12	13	12.88	13.00	12.91	0	12.88	13.00	12.97	0
	25	0	12.92	13.05	12.98	0	12.93	13.05	12.99	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20800	Mid CH 21100	High CH 21400		Low CH 20800	Mid CH 21100	High CH 21400	
			2505.0 MHz	2535.0 MHz	2565.0 MHz		2505.0 MHz	2535.0 MHz	2565.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
7 / 10M	1	0	21.19	21.43	21.24	0	20.17	20.41	20.22	1
	1	24	21.16	21.38	21.36	0	20.14	20.36	20.34	1
	1	49	21.53	21.31	21.26	0	20.51	20.29	20.24	1
	25	0	20.19	20.35	20.13	1	19.17	19.33	19.11	2
	25	12	20.40	20.38	20.35	1	19.38	19.36	19.33	2
	25	25	20.47	20.47	20.29	1	19.45	19.45	19.27	2
	50	0	20.23	20.34	20.25	1	19.21	19.32	19.23	2
EUT with Power Reduction (P-Sensor Triggered)										
7 / 10M	1	0	12.76	12.90	12.85	0	12.76	12.90	12.85	0
	1	24	13.04	13.23	13.20	0	13.09	13.23	13.20	0
	1	49	12.85	12.98	12.95	0	12.87	12.98	12.94	0
	25	0	12.93	13.06	12.99	0	12.90	13.06	13.02	0
	25	12	13.08	13.20	13.13	0	13.05	13.20	13.12	0
	25	25	12.97	13.10	13.03	0	12.98	13.10	13.01	0
	50	0	13.04	13.15	13.10	0	12.99	13.15	13.08	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20825	Mid CH 21100	High CH 21375		Low CH 20825	Mid CH 21100	High CH 21375	
			2507.5 MHz	2535.0 MHz	2562.5 MHz		2507.5 MHz	2535.0 MHz	2562.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
7 / 15M	1	0	21.24	21.48	21.29	0	20.19	20.43	20.24	1
	1	37	21.21	21.43	21.41	0	20.16	20.38	20.36	1
	1	74	21.58	21.36	21.31	0	20.53	20.31	20.26	1
	36	0	20.24	20.40	20.18	1	19.19	19.35	19.13	2
	36	19	20.45	20.43	20.40	1	19.40	19.38	19.35	2
	36	39	20.52	20.52	20.34	1	19.47	19.47	19.29	2
	75	0	20.28	20.39	20.30	1	19.23	19.34	19.25	2
EUT with Power Reduction (P-Sensor Triggered)										
7 / 15M	1	0	12.86	13.00	12.95	0	12.86	13.00	12.95	0
	1	37	13.16	13.33	13.24	0	13.13	13.33	13.27	0
	1	74	12.95	13.08	13.05	0	12.96	13.08	13.02	0
	36	0	13.00	13.16	13.13	0	12.98	13.16	13.13	0
	36	19	13.19	13.30	13.22	0	13.12	13.30	13.21	0
	36	39	13.07	13.20	13.16	0	13.07	13.20	13.13	0
	75	0	13.11	13.25	13.20	0	13.09	13.25	13.22	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20850	Mid CH 21100	High CH 21350		Low CH 20850	Mid CH 21100	High CH 21350	
			2510.0 MHz	2535.0 MHz	2560.0 MHz		2510.0 MHz	2535.0 MHz	2560.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
7 / 20M	1	0	21.30	21.64	21.35	0	20.22	20.56	20.27	1
	1	50	21.27	21.49	21.47	0	20.19	20.41	20.39	1
	1	99	21.54	21.42	21.37	0	20.46	20.34	20.29	1
	50	0	20.30	20.46	20.24	1	19.22	19.38	19.16	2
	50	25	20.51	20.49	20.46	1	19.43	19.41	19.38	2
	50	50	20.58	20.58	20.40	1	19.50	19.50	19.32	2
	100	0	20.34	20.45	20.36	1	19.26	19.37	19.28	2
EUT with Power Reduction (P-Sensor Triggered)										
7 / 20M	1	0	12.96	13.10	13.05	0	12.96	13.10	13.05	0
	1	50	13.33	13.43	13.37	0	13.32	13.43	13.36	0
	1	99	13.07	13.18	13.11	0	13.05	13.18	13.11	0
	50	0	13.13	13.26	13.19	0	13.11	13.26	13.23	0
	50	25	13.24	13.40	13.35	0	13.24	13.40	13.34	0
	50	50	13.17	13.30	13.27	0	13.16	13.30	13.24	0
	100	0	13.21	13.35	13.32	0	13.19	13.35	13.29	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23017	Mid CH 23095	High CH 23173		Low CH 23017	Mid CH 23095	High CH 23173	
			699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
12 / 1.4M	1	0	22.86	22.95	22.79	0	21.78	21.87	21.71	1
	1	2	22.94	22.65	22.70	0	21.86	21.57	21.62	1
	1	5	22.73	22.62	22.69	0	21.65	21.54	21.61	1
	3	0	22.72	22.60	22.57	0	21.64	21.52	21.49	1
	3	1	22.58	22.51	22.60	0	21.50	21.43	21.52	1
	3	3	22.52	22.63	22.56	0	21.44	21.55	21.48	1
	6	0	21.60	21.48	21.47	1	20.52	20.40	20.39	2
EUT with Power Reduction (P-Sensor Triggered)										
12 / 1.4M	1	0	16.82	16.84	16.70	0	16.80	16.82	16.68	0
	1	2	16.65	16.69	16.51	0	16.61	16.69	16.58	0
	1	5	16.42	16.46	16.38	0	16.36	16.44	16.36	0
	3	0	16.65	16.68	16.53	0	16.64	16.66	16.57	0
	3	1	16.54	16.60	16.47	0	16.56	16.60	16.46	0
	3	3	16.59	16.62	16.47	0	16.59	16.61	16.53	0
	6	0	16.54	16.60	16.47	0	16.55	16.60	16.46	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23025	Mid CH 23095	High CH 23165		Low CH 23025	Mid CH 23095	High CH 23165	
			700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
12 / 3M	1	0	22.88	22.97	22.81	0	21.83	21.92	21.76	1
	1	7	22.96	22.67	22.72	0	21.91	21.62	21.67	1
	1	14	22.75	22.64	22.71	0	21.70	21.59	21.66	1
	8	0	21.74	21.62	21.59	1	20.69	20.57	20.54	2
	8	3	21.60	21.53	21.62	1	20.55	20.48	20.57	2
	8	7	21.54	21.65	21.58	1	20.49	20.60	20.53	2
	15	0	21.62	21.50	21.49	1	20.57	20.45	20.44	2
EUT with Power Reduction (P-Sensor Triggered)										
12 / 3M	1	0	16.92	16.94	16.80	0	16.90	16.92	16.78	0
	1	7	16.77	16.79	16.67	0	16.71	16.79	16.59	0
	1	14	16.51	16.56	16.47	0	16.46	16.54	16.40	0
	8	0	16.76	16.78	16.67	0	16.72	16.76	16.62	0
	8	3	16.68	16.70	16.56	0	16.65	16.70	16.56	0
	8	7	16.70	16.72	16.64	0	16.69	16.71	16.60	0
	15	0	16.65	16.70	16.57	0	16.63	16.70	16.56	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23035	Mid CH 23095	High CH 23155		Low CH 23035	Mid CH 23095	High CH 23155	
			701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
12 / 5M	1	0	22.96	23.05	22.89	0	21.88	21.97	21.81	1
	1	12	23.04	22.75	22.80	0	21.96	21.67	21.72	1
	1	24	22.83	22.72	22.79	0	21.75	21.64	21.71	1
	12	0	21.82	21.70	21.67	1	20.74	20.62	20.59	2
	12	6	21.68	21.61	21.70	1	20.60	20.53	20.62	2
	12	13	21.62	21.73	21.66	1	20.54	20.65	20.58	2
	25	0	21.70	21.58	21.57	1	20.62	20.50	20.49	2
EUT with Power Reduction (P-Sensor Triggered)										
12 / 5M	1	0	17.02	17.04	16.90	0	17.00	17.02	16.88	0
	1	12	16.87	16.89	16.75	0	16.83	16.89	16.80	0
	1	24	16.58	16.66	16.56	0	16.61	16.64	16.53	0
	12	0	16.84	16.88	16.70	0	16.82	16.86	16.69	0
	12	6	16.73	16.80	16.66	0	16.73	16.80	16.66	0
	12	13	16.80	16.82	16.68	0	16.79	16.81	16.72	0
	25	0	16.75	16.80	16.67	0	16.77	16.80	16.66	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23060	Mid CH 23095	High CH 23130		Low CH 23060	Mid CH 23095	High CH 23130	
			704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
12 / 10M	1	0	22.98	23.07	22.91	0	21.95	22.04	21.88	1
	1	24	23.06	22.77	22.82	0	22.03	21.74	21.79	1
	1	49	22.85	22.74	22.81	0	21.82	21.71	21.78	1
	25	0	21.72	21.75	21.69	1	20.81	20.69	20.66	2
	25	12	21.70	21.63	21.72	1	20.67	20.60	20.69	2
	25	25	21.64	21.84	21.68	1	20.61	20.72	20.65	2
	50	0	21.72	21.60	21.59	1	20.69	20.57	20.56	2
EUT with Power Reduction (P-Sensor Triggered)										
12 / 10M	1	0	17.12	17.14	17.00	0	17.10	17.12	16.98	0
	1	24	16.96	16.99	16.81	0	16.91	16.99	16.88	0
	1	49	16.73	16.76	16.68	0	16.68	16.74	16.66	0
	25	0	16.93	16.98	16.86	0	16.93	16.96	16.80	0
	25	12	16.88	16.90	16.76	0	16.82	16.90	16.76	0
	25	25	16.89	16.92	16.78	0	16.89	16.91	16.83	0
	50	0	16.82	16.90	16.76	0	16.87	16.90	16.76	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23205	Mid CH 23230	High CH 23255		Low CH 23205	Mid CH 23230	High CH 23255	
			779.5 MHz	782.0 MHz	784.5 MHz		779.5 MHz	782.0 MHz	784.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
13 / 5M	1	0	22.62	22.42	22.45	0	21.55	21.35	21.38	1
	1	12	22.31	22.38	22.43	0	21.24	21.31	21.36	1
	1	24	22.36	22.71	22.44	0	21.29	21.64	21.37	1
	12	0	21.56	21.44	21.41	1	20.49	20.37	20.34	2
	12	6	21.62	21.41	21.47	1	20.55	20.34	20.40	2
	12	13	21.36	21.36	21.52	1	20.29	20.29	20.45	2
	25	0	21.42	21.40	21.42	1	20.35	20.33	20.35	2
EUT with Power Reduction (P-Sensor Triggered)										
13 / 5M	1	0	19.21	19.33	19.22	0	19.20	19.32	19.21	0
	1	12	19.18	19.29	19.20	0	19.17	19.28	19.19	0
	1	24	19.13	19.26	19.14	0	19.12	19.25	19.13	0
	12	0	19.12	19.24	19.16	0	19.11	19.23	19.15	0
	12	6	19.05	19.18	19.08	0	19.04	19.17	19.07	0
	12	13	19.03	19.13	19.07	0	19.02	19.12	19.06	0
	25	0	19.11	19.23	19.12	0	19.10	19.22	19.11	0

Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)
			Mid CH 23230		Mid CH 23230	
			782.0 MHz		782.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)						
13 / 10M	1	0	22.81	0	21.75	1
	1	24	22.78	0	21.72	1
	1	49	22.51	0	21.45	1
	25	0	21.54	1	20.42	2
	25	12	21.49	1	20.43	2
	25	25	21.48	1	20.48	2
	50	0	21.58	1	20.52	2
EUT with Power Reduction (P-Sensor Triggered)						
13 / 10M	1	0	19.36	0	19.36	0
	1	24	19.29	0	19.29	0
	1	49	18.98	0	19.01	0
	25	0	19.30	1	19.29	0
	25	12	19.21	1	19.21	0
	25	25	19.20	1	19.20	0
	50	0	19.23	1	19.22	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26047	Mid CH 26365	High CH 26683		Low CH 26047	Mid CH 26365	High CH 26683	
			1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 1.4M	1	0	22.84	22.61	22.79	0	21.83	21.60	21.78	1
	1	2	22.60	22.62	22.75	0	21.59	21.61	21.74	1
	1	5	22.64	22.47	22.59	0	21.63	21.46	21.58	1
	3	0	22.63	22.77	22.54	0	21.62	21.76	21.53	1
	3	1	22.65	22.67	22.51	0	21.64	21.66	21.50	1
	3	3	22.62	22.59	22.58	0	21.61	21.58	21.57	1
	6	0	21.59	21.70	21.63	1	20.58	20.69	20.62	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 1.4M	1	0	15.75	15.57	15.78	0	15.63	15.45	15.66	0
	1	2	15.65	15.46	15.68	0	15.53	15.34	15.56	0
	1	5	15.62	15.44	15.65	0	15.50	15.32	15.53	0
	3	0	15.73	15.64	15.76	0	15.61	15.52	15.64	0
	3	1	15.63	15.54	15.75	0	15.51	15.42	15.63	0
	3	3	15.72	15.45	15.65	0	15.60	15.33	15.53	0
	6	0	15.69	15.51	15.72	0	15.57	15.39	15.60	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26055	Mid CH 26365	High CH 26675		Low CH 26055	Mid CH 26365	High CH 26675	
			1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 3M	1	0	22.86	22.63	22.81	0	21.88	21.65	21.83	1
	1	7	22.62	22.64	22.77	0	21.64	21.66	21.79	1
	1	14	22.66	22.49	22.61	0	21.68	21.51	21.63	1
	8	0	21.65	21.79	21.56	1	20.67	20.81	20.58	2
	8	3	21.67	21.69	21.53	1	20.69	20.71	20.55	2
	8	7	21.64	21.61	21.60	1	20.66	20.63	20.62	2
	15	0	21.61	21.72	21.65	1	20.63	20.74	20.67	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 3M	1	0	15.79	15.61	15.82	0	15.70	15.52	15.73	0
	1	7	15.69	15.50	15.72	0	15.60	15.41	15.63	0
	1	14	15.66	15.48	15.69	0	15.57	15.39	15.60	0
	8	0	15.77	15.68	15.80	0	15.68	15.59	15.71	0
	8	3	15.67	15.58	15.79	0	15.58	15.49	15.70	0
	8	7	15.76	15.49	15.69	0	15.67	15.40	15.60	0
	15	0	15.73	15.55	15.76	0	15.64	15.46	15.67	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26065	Mid CH 26365	High CH 26665		Low CH 26065	Mid CH 26365	High CH 26665	
			1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 5M	1	0	22.94	22.71	22.89	0	21.91	21.68	21.86	1
	1	12	22.70	22.72	22.85	0	21.67	21.69	21.82	1
	1	24	22.74	22.57	22.69	0	21.71	21.54	21.66	1
	12	0	21.73	21.87	21.64	1	20.70	20.84	20.61	2
	12	6	21.75	21.77	21.61	1	20.72	20.74	20.58	2
	12	13	21.72	21.69	21.68	1	20.69	20.66	20.65	2
	25	0	21.69	21.80	21.73	1	20.66	20.77	20.70	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 5M	1	0	15.82	15.64	15.85	0	15.75	15.57	15.78	0
	1	12	15.72	15.53	15.75	0	15.65	15.46	15.68	0
	1	24	15.69	15.51	15.72	0	15.62	15.44	15.65	0
	12	0	15.80	15.71	15.83	0	15.73	15.64	15.76	0
	12	6	15.70	15.61	15.82	0	15.63	15.54	15.75	0
	12	13	15.79	15.52	15.72	0	15.72	15.45	15.65	0
	25	0	15.76	15.58	15.79	0	15.69	15.51	15.72	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26090	Mid CH 26365	High CH 26640		Low CH 26090	Mid CH 26365	High CH 26640	
			1855.0 MHz	1882.5 MHz	1910.0 MHz		1855.0 MHz	1882.5 MHz	1910.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 10M	1	0	22.97	22.74	22.92	0	21.99	21.76	21.94	1
	1	24	22.73	22.75	22.88	0	21.75	21.77	21.90	1
	1	49	22.77	22.60	22.72	0	21.79	21.62	21.74	1
	25	0	21.76	21.90	21.67	1	20.78	20.92	20.69	2
	25	12	21.78	21.80	21.64	1	20.80	20.82	20.66	2
	25	25	21.75	21.72	21.71	1	20.77	20.74	20.73	2
	50	0	21.72	21.83	21.76	1	20.74	20.85	20.78	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 10M	1	0	15.85	15.67	15.88	0	15.83	15.65	15.86	0
	1	24	15.75	15.56	15.78	0	15.73	15.54	15.76	0
	1	49	15.72	15.54	15.75	0	15.70	15.52	15.73	0
	25	0	15.83	15.74	15.86	0	15.81	15.72	15.84	0
	25	12	15.73	15.64	15.85	0	15.71	15.62	15.83	0
	25	25	15.82	15.55	15.75	0	15.80	15.53	15.73	0
	50	0	15.79	15.61	15.82	0	15.77	15.59	15.80	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26115	Mid CH 26365	High CH 26615		Low CH 26115	Mid CH 26365	High CH 26615	
			1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 15M	1	0	23.03	22.80	22.98	0	22.03	21.80	21.98	1
	1	37	22.79	22.81	22.94	0	21.79	21.81	21.94	1
	1	74	22.83	22.66	22.78	0	21.83	21.66	21.78	1
	36	0	21.82	21.96	21.73	1	20.82	20.96	20.73	2
	36	19	21.84	21.86	21.70	1	20.84	20.86	20.70	2
	36	39	21.81	21.78	21.77	1	20.81	20.78	20.77	2
	75	0	21.78	21.89	21.82	1	20.78	20.89	20.82	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 15M	1	0	15.88	15.70	15.91	0	15.85	15.67	15.88	0
	1	37	15.78	15.59	15.81	0	15.75	15.56	15.78	0
	1	74	15.75	15.57	15.78	0	15.72	15.54	15.75	0
	36	0	15.86	15.77	15.89	0	15.83	15.74	15.86	0
	36	19	15.76	15.67	15.88	0	15.73	15.64	15.85	0
	36	39	15.85	15.58	15.78	0	15.82	15.55	15.75	0
	75	0	15.82	15.64	15.85	0	15.79	15.61	15.82	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26140	Mid CH 26365	High CH 26590		Low CH 26140	Mid CH 26365	High CH 26590	
			1860.0 MHz	1882.5 MHz	1905.0 MHz		1860.0 MHz	1882.5 MHz	1905.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
25 / 20M	1	0	23.05	22.87	23.10	0	22.00	21.82	22.05	1
	1	50	22.86	22.88	23.01	0	21.81	21.83	21.96	1
	1	99	22.90	22.73	22.85	0	21.85	21.68	21.80	1
	50	0	21.89	21.80	22.03	1	20.84	20.98	20.75	2
	50	25	21.91	21.93	21.77	1	20.86	20.88	20.72	2
	50	50	21.88	21.85	21.84	1	20.83	20.80	20.79	2
	100	0	21.85	21.89	21.96	1	20.80	20.91	20.84	2
EUT with Power Reduction (P-Sensor Triggered)										
25 / 20M	1	0	15.95	15.77	15.98	0	15.90	15.72	15.93	0
	1	50	15.85	15.66	15.88	0	15.80	15.61	15.83	0
	1	99	15.82	15.64	15.85	0	15.77	15.59	15.80	0
	50	0	15.93	15.84	15.96	0	15.88	15.79	15.91	0
	50	25	15.83	15.74	15.95	0	15.78	15.69	15.90	0
	50	50	15.92	15.65	15.85	0	15.87	15.60	15.80	0
	100	0	15.89	15.71	15.92	0	15.84	15.66	15.87	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26697	Mid CH 26865	High CH 27033		Low CH 26697	Mid CH 26865	High CH 27033	
			814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
26 / 1.4M	1	0	22.66	22.51	22.35	0	21.52	21.37	21.21	1
	1	2	22.52	22.22	22.57	0	21.38	21.08	21.43	1
	1	5	22.34	22.07	22.60	0	21.20	21.03	21.46	1
	3	0	22.53	22.49	22.35	0	21.39	21.35	21.21	1
	3	1	22.50	22.26	22.35	0	21.36	21.12	21.21	1
	3	3	22.33	22.26	22.40	0	21.19	21.12	21.26	1
	6	0	21.50	21.35	21.43	1	20.36	20.21	20.29	2
EUT with Power Reduction (P-Sensor Triggered)										
26 / 1.4M	1	0	18.90	19.25	18.56	0	18.89	19.23	18.56	0
	1	2	18.84	19.23	18.47	0	18.85	19.19	18.46	0
	1	5	18.68	19.03	18.32	0	18.76	19.03	18.44	0
	3	0	18.60	18.96	18.30	0	18.62	18.96	18.28	0
	3	1	18.55	18.92	18.19	0	18.53	18.93	18.23	0
	3	3	18.30	18.74	18.07	0	18.32	18.75	18.10	0
	6	0	18.54	18.84	18.16	0	18.53	18.84	18.15	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26705	Mid CH 26865	High CH 27025		Low CH 26705	Mid CH 26865	High CH 27025	
			815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
26 / 3M	1	0	22.68	22.53	22.37	0	21.57	21.42	21.26	1
	1	7	22.54	22.24	22.59	0	21.43	21.13	21.48	1
	1	14	22.36	22.09	22.62	0	21.25	21.08	21.51	1
	8	0	21.55	21.51	21.37	1	20.44	20.40	20.26	2
	8	3	21.52	21.28	21.37	1	20.41	20.17	20.26	2
	8	7	21.35	21.28	21.42	1	20.24	20.17	20.31	2
	15	0	21.52	21.37	21.45	1	20.41	20.26	20.34	2
EUT with Power Reduction (P-Sensor Triggered)										
26 / 3M	1	0	19.00	19.35	18.66	0	18.99	19.33	18.66	0
	1	7	18.96	19.33	18.55	0	18.94	19.29	18.54	0
	1	14	18.81	19.13	18.45	0	18.82	19.13	18.52	0
	8	0	18.70	19.06	18.36	0	18.74	19.06	18.42	0
	8	3	18.62	19.02	18.27	0	18.61	19.03	18.34	0
	8	7	18.53	18.84	18.15	0	18.51	18.85	18.18	0
	15	0	18.68	18.94	18.33	0	18.64	18.94	18.23	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26715	Mid CH 26865	High CH 27015		Low CH 26715	Mid CH 26865	High CH 27015	
			816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
26 / 5M	1	0	22.71	22.56	22.40	0	21.63	21.48	21.32	1
	1	12	22.57	22.27	22.62	0	21.49	21.19	21.54	1
	1	24	22.39	22.12	22.65	0	21.31	21.04	21.57	1
	12	0	21.58	21.54	21.40	1	20.50	20.46	20.32	2
	12	6	21.55	21.31	21.40	1	20.47	20.23	20.32	2
	12	13	21.38	21.31	21.45	1	20.30	20.23	20.37	2
	25	0	21.55	21.40	21.48	1	20.47	20.32	20.40	2
EUT with Power Reduction (P-Sensor Triggered)										
26 / 5M	1	0	19.10	19.45	18.76	0	19.09	19.43	18.76	0
	1	12	18.99	19.43	18.72	0	19.03	19.39	18.68	0
	1	24	18.88	19.23	18.56	0	18.88	19.23	18.58	0
	12	0	18.81	19.16	18.46	0	18.84	19.16	18.49	0
	12	6	18.77	19.12	18.38	0	18.75	19.13	18.41	0
	12	13	18.56	18.94	18.25	0	18.53	18.95	18.31	0
	25	0	18.66	19.04	18.31	0	18.73	19.04	18.46	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26740	Mid CH 26865	High CH 26990		Low CH 26740	Mid CH 26865	High CH 26990	
			819.0 MHz	831.5 MHz	844.0 MHz		819.0 MHz	831.5 MHz	844.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
26 / 10M	1	0	22.74	22.59	22.43	0	21.70	21.55	21.39	1
	1	24	22.60	22.30	22.65	0	21.56	21.26	21.61	1
	1	49	22.42	22.15	22.68	0	21.38	21.11	21.64	1
	25	0	21.61	21.57	21.43	1	20.57	20.53	20.39	2
	25	12	21.58	21.34	21.43	1	20.54	20.30	20.39	2
	25	25	21.41	21.34	21.48	1	20.37	20.30	20.44	2
	50	0	21.58	21.43	21.51	1	20.54	20.39	20.47	2
EUT with Power Reduction (P-Sensor Triggered)										
26 / 10M	1	0	19.20	19.55	18.86	0	19.19	19.53	18.86	0
	1	24	19.15	19.53	18.76	0	19.10	19.49	18.80	0
	1	49	19.02	19.33	18.66	0	18.96	19.33	18.67	0
	25	0	18.94	19.26	18.60	0	18.93	19.26	18.59	0
	25	12	18.84	19.22	18.46	0	18.82	19.23	18.56	0
	25	25	18.68	19.04	18.37	0	18.63	19.05	18.39	0
	50	0	18.87	19.14	18.45	0	18.86	19.14	18.49	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26765	Mid CH 26865	High CH 26965		Low CH 26765	Mid CH 26865	High CH 26965	
			821.5 MHz	831.5 MHz	841.5 MHz		821.5 MHz	831.5 MHz	841.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
26 / 15M	1	0	22.63	22.78	22.47	0	21.57	21.72	21.41	1
	1	37	22.64	22.34	22.69	0	21.58	21.28	21.63	1
	1	74	22.46	22.19	22.72	0	21.40	21.13	21.66	1
	36	0	21.61	21.65	21.47	1	20.59	20.55	20.41	2
	36	19	21.62	21.38	21.47	1	20.56	20.32	20.41	2
	36	39	21.45	21.38	21.52	1	20.39	20.32	20.46	2
	75	0	21.62	21.47	21.55	1	20.56	20.41	20.49	2
EUT with Power Reduction (P-Sensor Triggered)										
26 / 15M	1	0	19.30	19.65	18.96	0	19.29	19.63	18.96	0
	1	37	19.23	19.63	18.90	0	19.18	19.59	18.85	0
	1	74	19.11	19.43	18.83	0	19.17	19.43	18.81	0
	36	0	19.01	19.36	18.70	0	19.01	19.36	18.70	0
	36	19	18.90	19.32	18.63	0	18.93	19.33	18.61	0
	36	39	18.79	19.14	18.45	0	18.77	19.15	18.48	0
	75	0	18.90	19.24	18.57	0	18.92	19.24	18.54	0

Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565		L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565	
			2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz		2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)														
41 / 5M	1	0	21.08	21.10	21.49	21.51	21.71	0	20.02	20.04	20.43	20.45	20.65	1
	1	12	21.29	21.34	21.57	21.44	21.65	0	20.23	20.28	20.51	20.38	20.59	1
	1	24	21.18	21.07	21.26	21.36	21.42	0	20.12	20.01	20.20	20.30	20.36	1
	12	0	20.25	20.10	20.40	20.38	20.65	1	19.19	19.04	19.34	19.32	19.59	2
	12	6	20.45	20.17	20.60	20.46	20.63	1	19.39	19.11	19.54	19.40	19.57	2
	12	13	20.23	20.21	20.55	20.50	20.66	1	19.17	19.15	19.49	19.44	19.60	2
	25	0	20.32	20.14	20.58	20.41	20.58	1	19.26	19.08	19.52	19.35	19.52	2
EUT with Power Reduction (P-Sensor Triggered)														
41 / 5M	1	0	15.29	15.50	15.60	15.19	16.01	0	15.37	15.52	15.58	15.31	15.94	0
	1	12	15.08	15.19	15.39	14.96	15.80	0	15.23	15.38	15.43	15.08	15.83	0
	1	24	14.73	14.85	14.93	14.64	15.56	0	14.91	15.04	15.11	14.85	15.41	0
	12	0	15.32	15.47	15.56	15.16	15.98	0	15.36	15.50	15.56	15.30	15.92	0
	12	6	15.14	15.38	15.52	15.14	15.87	0	15.28	15.46	15.54	15.24	15.89	0
	12	13	15.01	15.24	15.33	14.92	15.85	0	15.18	15.35	15.39	15.12	15.75	0
	25	0	14.98	15.10	15.27	14.90	15.71	0	15.15	15.24	15.36	15.10	15.73	0

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Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39700	M-CH 40160	M-CH 40620	M-CH 41080	H-CH 41540		L-CH 39700	M-CH 40160	M-CH 40620	M-CH 41080	H-CH 41540	
			2501.0 MHz	2547.0 MHz	2593.0 MHz	2639.0 MHz	2685.0 MHz		2501.0 MHz	2547.0 MHz	2593.0 MHz	2639.0 MHz	2685.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)														
41 / 10M	1	0	21.13	21.15	21.54	21.56	21.76	0	20.04	20.06	20.45	20.47	20.67	1
	1	24	21.34	21.39	21.62	21.13	21.34	0	20.25	20.30	20.53	20.40	20.61	1
	1	49	21.23	21.12	21.31	21.41	21.23	0	20.14	20.03	20.22	20.32	20.38	1
	25	0	20.30	20.15	20.45	20.43	20.30	1	19.21	19.06	19.36	19.34	19.61	2
	25	12	20.50	20.22	20.65	20.51	20.50	1	19.41	19.13	19.56	19.42	19.59	2
	25	25	20.28	20.26	20.60	20.55	20.28	1	19.19	19.17	19.51	19.46	19.62	2
	50	0	20.37	20.19	20.63	20.46	20.37	1	19.28	19.10	19.54	19.37	19.54	2
EUT with Power Reduction (P-Sensor Triggered)														
41 / 10M	1	0	15.38	15.60	15.67	15.30	16.06	0	15.44	15.59	15.65	15.38	16.01	0
	1	24	15.25	15.29	15.47	15.13	15.81	0	15.30	15.45	15.50	15.15	15.90	0
	1	49	14.87	14.93	15.04	14.79	15.41	0	14.98	15.11	15.18	14.92	15.48	0
	25	0	15.44	15.58	15.65	15.32	16.03	0	15.43	15.57	15.63	15.37	15.99	0
	25	12	15.24	15.46	15.62	15.20	16.01	0	15.35	15.53	15.61	15.31	15.96	0
	25	25	15.15	15.37	15.42	15.09	15.85	0	15.25	15.42	15.46	15.19	15.82	0
	50	0	15.09	15.18	15.37	15.02	15.82	0	15.22	15.31	15.43	15.17	15.80	0

Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39725	M-CH 40173	M-CH 40620	M-CH 41068	H-CH 41515		L-CH 39725	M-CH 40173	M-CH 40620	M-CH 41068	H-CH 41515	
			2503.5 MHz	2548.3 MHz	2593.0 MHz	2637.8 MHz	2682.5 MHz		2503.5 MHz	2548.3 MHz	2593.0 MHz	2637.8 MHz	2682.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)														
41 / 15M	1	0	21.16	21.18	21.57	21.59	21.79	0	20.11	20.13	20.52	20.54	20.74	1
	1	37	21.37	21.42	21.65	21.51	21.73	0	20.32	20.37	20.60	20.47	20.68	1
	1	74	21.26	21.15	21.34	21.44	21.50	0	20.21	20.10	20.29	20.39	20.45	1
	36	0	20.33	20.18	20.48	20.46	20.73	1	19.28	19.13	19.43	19.41	19.68	2
	36	19	20.53	20.25	20.68	20.54	20.71	1	19.48	19.20	19.63	19.49	19.66	2
	36	39	20.31	20.29	20.63	20.58	20.74	1	19.26	19.24	19.58	19.53	19.69	2
	75	0	20.40	20.22	20.66	20.49	20.66	1	19.35	19.17	19.61	19.44	19.61	2
EUT with Power Reduction (P-Sensor Triggered)														
41 / 15M	1	0	15.49	15.66	15.72	15.42	16.11	0	15.47	15.62	15.68	15.41	16.04	0
	1	37	15.23	15.46	15.56	15.25	15.93	0	15.33	15.48	15.53	15.18	15.93	0
	1	74	14.99	15.06	15.19	14.91	15.63	0	15.01	15.14	15.21	14.95	15.51	0
	36	0	15.51	15.63	15.70	15.41	16.08	0	15.46	15.60	15.66	15.40	16.02	0
	36	19	15.36	15.55	15.68	15.35	16.06	0	15.38	15.56	15.64	15.34	15.99	0
	36	39	15.27	15.43	15.52	15.19	15.94	0	15.28	15.45	15.49	15.22	15.85	0
	75	0	15.24	15.35	15.48	15.17	15.85	0	15.25	15.34	15.46	15.20	15.83	0

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Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490		L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490	
			2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)														
41 / 20M	1	0	21.20	21.22	21.61	21.63	21.83	0	20.17	20.19	20.58	20.60	20.80	1
	1	50	21.41	21.46	21.69	21.56	21.77	0	20.38	20.43	20.66	20.53	20.74	1
	1	99	21.30	21.19	21.38	21.48	21.54	0	20.27	20.16	20.35	20.45	20.51	1
	50	0	20.37	20.22	20.52	20.50	20.77	1	19.34	19.19	19.49	19.47	19.74	2
	50	25	20.57	20.29	20.72	20.58	20.78	1	19.54	19.26	19.69	19.55	19.72	2
	50	50	20.35	20.33	20.67	20.62	20.75	1	19.32	19.30	19.64	19.59	19.75	2
	100	0	20.44	20.26	20.70	20.53	20.70	1	19.41	19.23	19.67	19.50	19.67	2
EUT with Power Reduction (P-Sensor Triggered)														
41 / 20M	1	0	15.59	15.74	15.80	15.53	16.16	0	15.52	15.67	15.73	15.46	16.09	0
	1	50	15.45	15.60	15.65	15.30	16.05	0	15.38	15.53	15.58	15.23	15.98	0
	1	99	15.13	15.26	15.33	15.07	15.63	0	15.06	15.19	15.26	15.00	15.56	0
	50	0	15.58	15.72	15.78	15.52	16.14	0	15.51	15.65	15.71	15.45	16.07	0
	50	25	15.50	15.68	15.76	15.46	16.11	0	15.43	15.61	15.69	15.39	16.04	0
	50	50	15.40	15.57	15.61	15.34	15.97	0	15.33	15.50	15.54	15.27	15.90	0
	100	0	15.37	15.46	15.58	15.32	15.95	0	15.30	15.39	15.51	15.25	15.88	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

<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.

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is ≤ 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
- (3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.
- (4) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO 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.	Power Reduction	EUT Config.	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	1.5	9262	w/o	1	24.0	23.28	1.18	-0.18	0.143	0.17
	WCDMA II	RMC12.2K	Right Side	1.1	9262	w/o	1	24.0	23.28	1.18	0.06	0.062	0.07
	WCDMA II	RMC12.2K	Bottom Side	1.5	9262	w/o	1	24.0	23.28	1.18	0.12	0.136	0.16
	WCDMA II	RMC12.2K	Rear Face	0	9262	w/	1	16.0	15.59	1.10	-0.08	0.961	1.06
	WCDMA II	RMC12.2K	Right Side	0	9262	w/	1	16.0	15.59	1.10	-0.07	0.655	0.72
	WCDMA II	RMC12.2K	Bottom Side	0	9262	w/	1	16.0	15.59	1.10	0.03	0.451	0.50
	WCDMA II	RMC12.2K	Rear Face	0	9400	w/	1	16.0	15.43	1.14	0.19	1.03	1.17
	WCDMA II	RMC12.2K	Rear Face	0	9538	w/	1	16.0	15.57	1.10	0.11	1.00	1.10
	WCDMA II	RMC12.2K	Rear Face	1.5	9262	w/o	2	24.0	23.28	1.18	-0.18	0.206	0.24
	WCDMA II	RMC12.2K	Right Side	1.1	9262	w/o	2	24.0	23.28	1.18	-0.12	0.070	0.08
	WCDMA II	RMC12.2K	Bottom Side	1.5	9262	w/o	2	24.0	23.28	1.18	-0.05	0.168	0.20
01	WCDMA II	RMC12.2K	Rear Face	0	9262	w/	2	16.0	15.59	1.10	0.15	1.11	1.22
	WCDMA II	RMC12.2K	Right Side	0	9262	w/	2	16.0	15.59	1.10	0.16	0.255	0.28
	WCDMA II	RMC12.2K	Bottom Side	0	9262	w/	2	16.0	15.59	1.10	0.05	0.693	0.76
	WCDMA II	RMC12.2K	Rear Face	0	9400	w/	2	16.0	15.43	1.14	-0.12	1.05	1.20
	WCDMA II	RMC12.2K	Rear Face	0	9538	w/	2	16.0	15.57	1.10	-0.08	1.07	1.18
	WCDMA II	RMC12.2K	Rear Face	0	9262	w/	2	16.0	15.59	1.10	-0.05	1.08	1.19
	WCDMA IV	RMC12.2K	Rear Face	1.5	1513	w/o	1	24.0	23.18	1.21	0.05	0.20	0.24
	WCDMA IV	RMC12.2K	Right Side	1.1	1513	w/o	1	24.0	23.18	1.21	-0.16	0	0
	WCDMA IV	RMC12.2K	Bottom Side	1.5	1513	w/o	1	24.0	23.18	1.21	0.06	0.277	0.33
	WCDMA IV	RMC12.2K	Rear Face	0	1413	w/	1	16.0	15.55	1.11	-0.08	0.773	0.86
	WCDMA IV	RMC12.2K	Right Side	0	1413	w/	1	16.0	15.55	1.11	-0.16	0.220	0.24
	WCDMA IV	RMC12.2K	Bottom Side	0	1413	w/	1	16.0	15.55	1.11	-0.14	0.464	0.51
	WCDMA IV	RMC12.2K	Rear Face	0	1312	w/	1	16.0	15.51	1.12	0.12	0.800	0.90
	WCDMA IV	RMC12.2K	Rear Face	0	1513	w/	1	16.0	15.37	1.16	0.07	0.884	1.02
	WCDMA IV	RMC12.2K	Rear Face	1.5	1513	w/o	2	24.0	23.18	1.21	-0.06	0.166	0.20
	WCDMA IV	RMC12.2K	Right Side	1.1	1513	w/o	2	24.0	23.18	1.21	0.03	0.003	0
	WCDMA IV	RMC12.2K	Bottom Side	1.5	1513	w/o	2	24.0	23.18	1.21	0.09	0.214	0.26
02	WCDMA IV	RMC12.2K	Rear Face	0	1413	w/	2	16.0	15.55	1.11	-0.09	0.997	1.11
	WCDMA IV	RMC12.2K	Right Side	0	1413	w/	2	16.0	15.55	1.11	-0.16	0.124	0.14
	WCDMA IV	RMC12.2K	Bottom Side	0	1413	w/	2	16.0	15.55	1.11	-0.12	0.790	0.88
	WCDMA IV	RMC12.2K	Rear Face	0	1312	w/	2	16.0	15.51	1.12	-0.07	0.968	1.08
	WCDMA IV	RMC12.2K	Rear Face	0	1513	w/	2	16.0	15.37	1.16	0.13	0.955	1.10
	WCDMA IV	RMC12.2K	Bottom Side	0	1312	w/	2	16.0	15.51	1.12	0.14	0.807	0.90
	WCDMA IV	RMC12.2K	Bottom Side	0	1513	w/	2	16.0	15.37	1.16	-0.06	0.760	0.88
	WCDMA IV	RMC12.2K	Rear Face	0	1413	w/	2	16.0	15.55	1.11	0.11	0.973	1.08
	WCDMA V	RMC12.2K	Rear Face	1.5	4233	w/o	1	24.0	22.50	1.41	0.01	0.257	0.36
	WCDMA V	RMC12.2K	Right Side	1.1	4233	w/o	1	24.0	22.50	1.41	-0.08	0.228	0.32
	WCDMA V	RMC12.2K	Bottom Side	1.5	4233	w/o	1	24.0	22.50	1.41	0.11	0.077	0.11
	WCDMA V	RMC12.2K	Rear Face	0	4132	w/	1	20.0	19.92	1.02	0.08	0.852	0.87
	WCDMA V	RMC12.2K	Right Side	0	4132	w/	1	20.0	19.92	1.02	0.09	0.974	0.99
	WCDMA V	RMC12.2K	Bottom Side	0	4132	w/	1	20.0	19.92	1.02	-0.01	0.162	0.17
	WCDMA V	RMC12.2K	Rear Face	0	4182	w/	1	20.0	19.78	1.05	0.11	0.793	0.83
	WCDMA V	RMC12.2K	Rear Face	0	4233	w/	1	20.0	19.74	1.06	0.17	0.843	0.90
	WCDMA V	RMC12.2K	Right Side	0	4182	w/	1	20.0	19.78	1.05	0.05	0.982	1.03
03	WCDMA V	RMC12.2K	Right Side	0	4233	w/	1	20.0	19.74	1.06	-0.01	1.12	1.19
	WCDMA V	RMC12.2K	Right Side	0	4233	w/	1	20.0	19.74	1.06	0.05	1.1	1.17
	WCDMA V	RMC12.2K	Rear Face	1.5	4233	w/o	2	24.0	22.50	1.41	-0.11	0.328	0.46
	WCDMA V	RMC12.2K	Right Side	1.1	4233	w/o	2	24.0	22.50	1.41	0.09	0.340	0.48
	WCDMA V	RMC12.2K	Bottom Side	1.5	4233	w/o	2	24.0	22.50	1.41	-0.18	0.199	0.28
	WCDMA V	RMC12.2K	Rear Face	0	4132	w/	2	20.0	19.92	1.02	0.02	0.829	0.84
	WCDMA V	RMC12.2K	Right Side	0	4132	w/	2	20.0	19.92	1.02	0.06	0.779	0.79
	WCDMA V	RMC12.2K	Bottom Side	0	4132	w/	2	20.0	19.92	1.02	-0.13	0.279	0.28
	WCDMA V	RMC12.2K	Rear Face	0	4182	w/	2	20.0	19.78	1.05	-0.11	0.743	0.78
	WCDMA V	RMC12.2K	Rear Face	0	4233	w/	2	20.0	19.74	1.06	-0.18	0.704	0.75

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	EUT Config.	RB#	RB Offset	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 2	QPSK20M	Rear Face	1.5	18700	w/o	1	1%	0	24.0	23.08	1.24	0.09	0.153	0.19
	LTE 2	QPSK20M	Right Side	1.1	18700	w/o	1	1%	0	24.0	23.08	1.24	-0.05	0.077	0.10
	LTE 2	QPSK20M	Bottom Side	1.5	18700	w/o	1	1%	0	24.0	23.08	1.24	0.01	0.132	0.16
	LTE 2	QPSK20M	Rear Face	1.5	18700	w/o	1	50%	25	23.0	21.97	1.27	0	0.142	0.18
	LTE 2	QPSK20M	Right Side	1.1	18700	w/o	1	50%	25	23.0	21.97	1.27	0.03	0.068	0.09
	LTE 2	QPSK20M	Bottom Side	1.5	18700	w/o	1	50%	25	23.0	21.97	1.27	-0.08	0.125	0.16
	LTE 2	QPSK20M	Rear Face	0	18700	w/	1	1%	0	16.5	15.92	1.14	-0.05	1.09	1.25
	LTE 2	QPSK20M	Right Side	0	18700	w/	1	1%	0	16.5	15.92	1.14	-0.08	0.662	0.76
	LTE 2	QPSK20M	Bottom Side	0	18700	w/	1	1%	0	16.5	15.92	1.14	0.01	0.44	0.50
	LTE 2	QPSK20M	Rear Face	0	18700	w/	1	50%	25	16.5	15.91	1.15	0.06	1.08	1.24
	LTE 2	QPSK20M	Right Side	0	18700	w/	1	50%	25	16.5	15.91	1.15	-0.03	0.647	0.74
	LTE 2	QPSK20M	Bottom Side	0	18700	w/	1	50%	25	16.5	15.91	1.15	0.04	0.437	0.50
	LTE 2	QPSK20M	Rear Face	0	18900	w/	1	1%	0	16.5	15.85	1.16	0.02	0.980	1.14
	LTE 2	QPSK20M	Rear Face	0	19100	w/	1	1%	0	16.5	15.80	1.17	0.03	1.06	1.25
	LTE 2	QPSK20M	Rear Face	0	18900	w/	1	50%	25	16.5	15.86	1.16	0.09	1.02	1.18
	LTE 2	QPSK20M	Rear Face	0	19100	w/	1	50%	25	16.5	15.89	1.15	0.07	1.02	1.17
	LTE 2	QPSK20M	Rear Face	1.5	18700	w/o	2	1%	0	24.0	23.08	1.24	-0.09	0.175	0.22
	LTE 2	QPSK20M	Right Side	1.1	18700	w/o	2	1%	0	24.0	23.08	1.24	0.13	0.011	0.01
	LTE 2	QPSK20M	Bottom Side	1.5	18700	w/o	2	1%	0	24.0	23.08	1.24	0.08	0.211	0.26
	LTE 2	QPSK20M	Rear Face	1.5	18700	w/o	2	50%	25	23.0	21.97	1.27	-0.02	0.164	0.21
	LTE 2	QPSK20M	Right Side	1.1	18700	w/o	2	50%	25	23.0	21.97	1.27	0	0	0
	LTE 2	QPSK20M	Bottom Side	1.5	18700	w/o	2	50%	25	23.0	21.97	1.27	0.01	0.154	0.20
	LTE 2	QPSK20M	Rear Face	0	18700	w/	2	1%	0	16.5	15.92	1.14	0.06	1.16	1.33
	LTE 2	QPSK20M	Right Side	0	18700	w/	2	1%	0	16.5	15.92	1.14	-0.05	0.323	0.37
	LTE 2	QPSK20M	Bottom Side	0	18700	w/	2	1%	0	16.5	15.92	1.14	0.03	0.645	0.74
	LTE 2	QPSK20M	Rear Face	0	18700	w/	2	50%	25	16.5	15.91	1.15	-0.17	1.16	1.33
	LTE 2	QPSK20M	Right Side	0	18700	w/	2	50%	25	16.5	15.91	1.15	0.08	0.334	0.38
	LTE 2	QPSK20M	Bottom Side	0	18700	w/	2	50%	25	16.5	15.91	1.15	-0.02	0.632	0.72
	LTE 2	QPSK20M	Rear Face	0	18700	w/	2	100%	0	16.5	15.85	1.16	-0.16	1.16	1.35
	LTE 2	QPSK20M	Rear Face	0	18900	w/	2	1%	0	16.5	15.82	1.17	-0.13	1.15	1.34
	LTE 2	QPSK20M	Rear Face	0	19100	w/	2	1%	0	16.5	15.80	1.17	0.02	1.12	1.32
	LTE 2	QPSK20M	Rear Face	0	18900	w/	2	50%	25	16.5	15.86	1.16	-0.11	1.16	1.34
04	LTE 2	QPSK20M	Rear Face	0	19100	w/	2	50%	25	16.5	15.89	1.15	0.02	1.18	1.36
	LTE 2	QPSK20M	Rear Face	0	19100	w/	2	50%	25	16.5	15.89	1.15	-0.15	1.09	1.25

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	EUT Config.	RB#	RB Offset	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 4	QPSK20M	Rear Face	1.5	20050	w/o	1	1%	0	24.0	23.09	1.23	0.09	0.227	0.28
	LTE 4	QPSK20M	Right Side	1.1	20050	w/o	1	1%	0	24.0	23.09	1.23	0	0	0
	LTE 4	QPSK20M	Bottom Side	1.5	20050	w/o	1	1%	0	24.0	23.09	1.23	-0.04	0.352	0.43
	LTE 4	QPSK20M	Rear Face	1.5	20050	w/o	1	50%	0	23.0	22.01	1.26	-0.01	0.216	0.27
	LTE 4	QPSK20M	Right Side	1.1	20050	w/o	1	50%	0	23.0	22.01	1.26	0	0	0
	LTE 4	QPSK20M	Bottom Side	1.5	20050	w/o	1	50%	0	23.0	22.01	1.26	0.04	0.338	0.42
	LTE 4	QPSK20M	Rear Face	0	20050	w/	1	1%	0	17.0	16.33	1.17	-0.02	0.925	1.08
	LTE 4	QPSK20M	Right Side	0	20050	w/	1	1%	0	17.0	16.33	1.17	-0.08	0.249	0.29
	LTE 4	QPSK20M	Bottom Side	0	20050	w/	1	1%	0	17.0	16.33	1.17	0.11	0.601	0.70
	LTE 4	QPSK20M	Rear Face	0	20050	w/	1	50%	0	17.0	16.30	1.17	0.03	0.878	1.03
	LTE 4	QPSK20M	Right Side	0	20050	w/	1	50%	0	17.0	16.30	1.17	0.09	0.313	0.37
	LTE 4	QPSK20M	Bottom Side	0	20050	w/	1	50%	0	17.0	16.30	1.17	-0.1	0.633	0.74
	LTE 4	QPSK20M	Rear Face	0	20050	w/	1	100%	0	17.0	16.30	1.17	-0.02	0.868	1.02
	LTE 4	QPSK20M	Rear Face	0	20175	w/	1	1%	0	17.0	16.23	1.19	0.06	0.954	1.14
	LTE 4	QPSK20M	Rear Face	0	20300	w/	1	1%	0	17.0	16.14	1.22	0.04	1.03	1.26
	LTE 4	QPSK20M	Rear Face	0	20175	w/	1	50%	0	17.0	16.22	1.20	-0.05	0.926	1.11
	LTE 4	QPSK20M	Rear Face	0	20300	w/	1	50%	0	17.0	16.19	1.21	0.07	0.921	1.11
	LTE 4	QPSK20M	Rear Face	1.5	20050	w/o	2	1%	0	24.0	23.09	1.23	-0.08	0.178	0.22
	LTE 4	QPSK20M	Right Side	1.1	20050	w/o	2	1%	0	24.0	23.09	1.23	0	0	0
	LTE 4	QPSK20M	Bottom Side	1.5	20050	w/o	2	1%	0	24.0	23.09	1.23	0.12	0.244	0.30
	LTE 4	QPSK20M	Rear Face	1.5	20050	w/o	2	50%	0	23.0	22.01	1.26	0.05	0.175	0.22
	LTE 4	QPSK20M	Right Side	1.1	20050	w/o	2	50%	0	23.0	22.01	1.26	0	0	0
	LTE 4	QPSK20M	Bottom Side	1.5	20050	w/o	2	50%	0	23.0	22.01	1.26	0.08	0.258	0.32
	LTE 4	QPSK20M	Rear Face	0	20050	w/	2	1%	0	17	16.33	1.17	0.05	1.10	1.28
	LTE 4	QPSK20M	Right Side	0	20050	w/	2	1%	0	17	16.33	1.17	-0.08	0.179	0.21
	LTE 4	QPSK20M	Bottom Side	0	20050	w/	2	1%	0	17	16.33	1.17	0.11	0.854	1.00
	LTE 4	QPSK20M	Rear Face	0	20050	w/	2	50%	0	17	16.30	1.17	0.03	1.11	1.30
	LTE 4	QPSK20M	Right Side	0	20050	w/	2	50%	0	17	16.30	1.17	-0.05	0.176	0.21
	LTE 4	QPSK20M	Bottom Side	0	20050	w/	2	50%	0	17	16.30	1.17	0.07	0.872	1.02
	LTE 4	QPSK20M	Rear Face	0	20050	w/	2	100%	0	17	16.30	1.17	0.12	1.11	1.30
	LTE 4	QPSK20M	Bottom Side	0	20050	w/	2	100%	0	17	16.30	1.17	-0.05	0.843	0.99
	LTE 4	QPSK20M	Rear Face	0	20175	w/	2	1%	0	17	16.23	1.19	-0.13	1.11	1.33
	LTE 4	QPSK20M	Rear Face	0	20300	w/	2	1%	0	17	16.14	1.22	0.06	1.06	1.29
	LTE 4	QPSK20M	Bottom Side	0	20175	w/	2	1%	0	17	16.23	1.19	-0.15	0.879	1.05
	LTE 4	QPSK20M	Bottom Side	0	20300	w/	2	1%	0	17	16.14	1.22	-0.11	0.831	1.01
05	LTE 4	QPSK20M	Rear Face	0	20175	w/	2	50%	0	17	16.22	1.20	0.18	1.12	1.34
	LTE 4	QPSK20M	Rear Face	0	20300	w/	2	50%	0	17	16.19	1.21	0.08	1.11	1.34
	LTE 4	QPSK20M	Bottom Side	0	20175	w/	2	50%	0	17	16.22	1.20	-0.02	0.843	1.01
	LTE 4	QPSK20M	Bottom Side	0	20300	w/	2	50%	0	17	16.19	1.21	-0.05	0.841	1.01
	LTE 4	QPSK20M	Rear Face	0	20175	w/	2	50%	0	17	16.22	1.20	0.18	1.06	1.27

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	EUT Config.	RB#	RB Offset	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	1.5	20525	w/o	1	1%	24	24.0	22.43	1.44	0.05	0.236	0.34
	LTE 5	QPSK10M	Right Side	1.1	20525	w/o	1	1%	24	24.0	22.43	1.44	0.08	0.218	0.31
	LTE 5	QPSK10M	Bottom Side	1.5	20525	w/o	1	1%	24	24.0	22.43	1.44	-0.1	0.075	0.11
	LTE 5	QPSK10M	Rear Face	1.5	20525	w/o	1	25%	12	23.0	21.36	1.46	0.02	0.239	0.35
	LTE 5	QPSK10M	Right Side	1.1	20525	w/o	1	25%	12	23.0	21.36	1.46	0.12	0.213	0.31
	LTE 5	QPSK10M	Bottom Side	1.5	20525	w/o	1	25%	12	23.0	21.36	1.46	0.18	0.077	0.11
	LTE 5	QPSK10M	Rear Face	0	20525	w/	1	1%	24	19.5	19.48	1.00	-0.16	0.835	0.84
	LTE 5	QPSK10M	Right Side	0	20525	w/	1	1%	24	19.5	19.48	1.00	-0.02	0.756	0.76
	LTE 5	QPSK10M	Bottom Side	0	20525	w/	1	1%	24	19.5	19.48	1.00	0.09	0.128	0.13
06	LTE 5	QPSK10M	Rear Face	0	20450	w/	1	25%	12	19.5	19.18	1.08	-0.16	0.924	0.99
	LTE 5	QPSK10M	Right Side	0	20450	w/	1	25%	12	19.5	19.18	1.08	0.08	0.708	0.76
	LTE 5	QPSK10M	Bottom Side	0	20450	w/	1	25%	12	19.5	19.18	1.08	-0.07	0.151	0.16
	LTE 5	QPSK10M	Rear Face	0	20450	w/	1	50%	0	19.5	19.10	1.10	0.09	0.844	0.93
	LTE 5	QPSK10M	Rear Face	0	20450	w/	1	1%	24	19.5	19.18	1.08	0.06	0.826	0.89
	LTE 5	QPSK10M	Rear Face	0	20600	w/	1	1%	24	19.5	19.21	1.07	0.08	0.811	0.87
	LTE 5	QPSK10M	Rear Face	0	20525	w/	1	25%	12	19.5	19.02	1.12	0.11	0.865	0.97
	LTE 5	QPSK10M	Rear Face	0	20600	w/	1	25%	12	19.5	18.99	1.12	-0.04	0.857	0.96
	LTE 5	QPSK10M	Rear Face	0	20525	w/	1	50%	0	19.5	19.08	1.10	0.07	0.791	0.87
	LTE 5	QPSK10M	Rear Face	0	20600	w/	1	50%	0	19.5	18.98	1.13	-0.13	0.785	0.88
	LTE 5	QPSK10M	Rear Face	0	20450	w/	1	25%	12	19.5	19.18	1.08	0.05	0.909	0.98
	LTE 5	QPSK10M	Rear Face	1.5	20525	w/o	2	1%	24	24.0	22.43	1.44	-0.08	0.161	0.23
	LTE 5	QPSK10M	Right Side	1.1	20525	w/o	2	1%	24	24.0	22.43	1.44	0.09	0.123	0.18
	LTE 5	QPSK10M	Bottom Side	1.5	20525	w/o	2	1%	24	24.0	22.43	1.44	0.02	0.053	0.08
	LTE 5	QPSK10M	Rear Face	1.5	20525	w/o	2	25%	12	23.0	21.36	1.46	0.11	0.149	0.22
	LTE 5	QPSK10M	Right Side	1.1	20525	w/o	2	25%	12	23.0	21.36	1.46	0.07	0.124	0.18
	LTE 5	QPSK10M	Bottom Side	1.5	20525	w/o	2	25%	12	23.0	21.36	1.46	-0.12	0.043	0.06
	LTE 5	QPSK10M	Rear Face	0	20525	w/	2	1%	24	19.5	19.48	1.00	-0.16	0.496	0.50
	LTE 5	QPSK10M	Right Side	0	20525	w/	2	1%	24	19.5	19.48	1.00	-0.11	0.638	0.64
	LTE 5	QPSK10M	Bottom Side	0	20525	w/	2	1%	24	19.5	19.48	1.00	0.07	0.145	0.15
	LTE 5	QPSK10M	Rear Face	0	20450	w/	2	25%	12	19.5	19.18	1.08	0.13	0.566	0.61
	LTE 5	QPSK10M	Right Side	0	20450	w/	2	25%	12	19.5	19.18	1.08	-0.08	0.712	0.77
	LTE 5	QPSK10M	Bottom Side	0	20450	w/	2	25%	12	19.5	19.18	1.08	-0.09	0.202	0.22

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	EUT Config.	RB#	RB Offset	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 7	QPSK20M	Rear Face	1.5	21100	w/o	1	1%	0	23.0	21.64	1.37	0.07	0.089	0.12
	LTE 7	QPSK20M	Right Side	1.1	21100	w/o	1	1%	0	23.0	21.64	1.37	-0.16	0.075	0.10
	LTE 7	QPSK20M	Bottom Side	1.5	21100	w/o	1	1%	0	23.0	21.64	1.37	-0.03	0.063	0.09
	LTE 7	QPSK20M	Rear Face	1.5	21100	w/o	1	50%	50	22.0	20.58	1.39	-0.11	0.085	0.12
	LTE 7	QPSK20M	Right Side	1.1	21100	w/o	1	50%	50	22.0	20.58	1.39	0.08	0.071	0.10
	LTE 7	QPSK20M	Bottom Side	1.5	21100	w/o	1	50%	50	22.0	20.58	1.39	0.15	0.065	0.09
	LTE 7	QPSK20M	Rear Face	0	21100	w/	1	1%	50	13.5	13.43	1.02	-0.12	0.784	0.80
	LTE 7	QPSK20M	Right Side	0	21100	w/	1	1%	50	13.5	13.43	1.02	-0.06	0.610	0.62
	LTE 7	QPSK20M	Bottom Side	0	21100	w/	1	1%	50	13.5	13.43	1.02	0.12	0.155	0.16
	LTE 7	QPSK20M	Rear Face	0	21100	w/	1	50%	25	13.5	13.40	1.02	-0.16	0.771	0.79
	LTE 7	QPSK20M	Right Side	0	21100	w/	1	50%	25	13.5	13.40	1.02	-0.12	0.682	0.70
	LTE 7	QPSK20M	Bottom Side	0	21100	w/	1	50%	25	13.5	13.40	1.02	-0.15	0.158	0.16
	LTE 7	QPSK20M	Rear Face	0	21100	w/	1	100%	0	13.5	13.35	1.04	0.07	0.671	0.69
07	LTE 7	QPSK20M	Rear Face	0	20850	w/	1	1%	50	13.5	13.33	1.04	0.09	0.817	0.85
	LTE 7	QPSK20M	Rear Face	0	21350	w/	1	1%	50	13.5	13.37	1.03	-0.18	0.679	0.70
	LTE 7	QPSK20M	Rear Face	0	20850	w/	1	1%	50	13.5	13.33	1.04	-0.13	0.802	0.83
	LTE 7	QPSK20M	Rear Face	1.5	21100	w/o	2	1%	0	23.0	21.64	1.37	-0.13	0.047	0.06
	LTE 7	QPSK20M	Right Side	1.1	21100	w/o	2	1%	0	23.0	21.64	1.37	0.07	0.051	0.07
	LTE 7	QPSK20M	Bottom Side	1.5	21100	w/o	2	1%	0	23.0	21.64	1.37	-0.18	0.051	0.07
	LTE 7	QPSK20M	Rear Face	1.5	21100	w/o	2	50%	50	22.0	20.58	1.39	-0.06	0.046	0.06
	LTE 7	QPSK20M	Right Side	1.1	21100	w/o	2	50%	50	22.0	20.58	1.39	-0.15	0.052	0.07
	LTE 7	QPSK20M	Bottom Side	1.5	21100	w/o	2	50%	50	22.0	20.58	1.39	0.12	0.050	0.07
	LTE 7	QPSK20M	Rear Face	0	21100	w/	2	1%	50	13.5	13.43	1.02	-0.17	0.529	0.54
	LTE 7	QPSK20M	Right Side	0	21100	w/	2	1%	50	13.5	13.43	1.02	-0.09	0.649	0.66
	LTE 7	QPSK20M	Bottom Side	0	21100	w/	2	1%	50	13.5	13.43	1.02	0.05	0.296	0.30
	LTE 7	QPSK20M	Rear Face	0	21100	w/	2	50%	25	13.5	13.40	1.02	-0.11	0.523	0.54
	LTE 7	QPSK20M	Right Side	0	21100	w/	2	50%	25	13.5	13.40	1.02	-0.17	0.646	0.66
	LTE 7	QPSK20M	Bottom Side	0	21100	w/	2	50%	25	13.5	13.40	1.02	0.08	0.293	0.30
	LTE 12	QPSK10M	Rear Face	1.5	23095	w/o	1	1%	0	24.0	23.07	1.24	0.05	0.058	0.07
	LTE 12	QPSK10M	Right Side	1.1	23095	w/o	1	1%	0	24.0	23.07	1.24	0.11	0.059	0.07
	LTE 12	QPSK10M	Bottom Side	1.5	23095	w/o	1	1%	0	24.0	23.07	1.24	-0.05	0.007	0.01
	LTE 12	QPSK10M	Rear Face	1.5	23095	w/o	1	25%	25	23.0	21.84	1.31	0.08	0.055	0.07
	LTE 12	QPSK10M	Right Side	1.1	23095	w/o	1	25%	25	23.0	21.84	1.31	-0.19	0.06	0.08
	LTE 12	QPSK10M	Bottom Side	1.5	23095	w/o	1	25%	25	23.0	21.84	1.31	0.1	0	0
	LTE 12	QPSK10M	Rear Face	0	23095	w/	1	1%	0	17.5	17.14	1.09	-0.03	0.593	0.64
	LTE 12	QPSK10M	Right Side	0	23095	w/	1	1%	0	17.5	17.14	1.09	-0.02	0.819	0.89
	LTE 12	QPSK10M	Bottom Side	0	23095	w/	1	1%	0	17.5	17.14	1.09	0.11	0.135	0.15
	LTE 12	QPSK10M	Rear Face	0	23095	w/	1	25%	0	17.5	16.98	1.13	-0.05	0.575	0.65
08	LTE 12	QPSK10M	Right Side	0	23095	w/	1	25%	0	17.5	16.98	1.13	-0.12	1.02	1.15
	LTE 12	QPSK10M	Bottom Side	0	23095	w/	1	25%	0	17.5	16.98	1.13	0.03	0.124	0.14
	LTE 12	QPSK10M	Right Side	0	23060	w/	1	1%	0	17.5	17.12	1.09	-0.13	0.864	0.94
	LTE 12	QPSK10M	Right Side	0	23130	w/	1	1%	0	17.5	17.00	1.12	-0.18	0.904	1.01
	LTE 12	QPSK10M	Right Side	0	23060	w/	1	25%	0	17.5	16.93	1.14	0.05	0.853	0.97
	LTE 12	QPSK10M	Right Side	0	23130	w/	1	25%	0	17.5	16.86	1.16	0.11	0.916	1.06
	LTE 12	QPSK10M	Right Side	0	23095	w/	1	50%	0	17.5	16.90	1.15	0.03	0.742	0.85
	LTE 12	QPSK10M	Right Side	0	23095	w/	1	25%	0	17.5	16.98	1.13	0.07	0.976	1.10
	LTE 12	QPSK10M	Rear Face	1.5	23095	w/o	2	1%	0	24.0	23.07	1.24	0.07	0.065	0.08
	LTE 12	QPSK10M	Right Side	1.1	23095	w/o	2	1%	0	24.0	23.07	1.24	0	0	0
	LTE 12	QPSK10M	Bottom Side	1.5	23095	w/o	2	1%	0	24.0	23.07	1.24	0	0	0
	LTE 12	QPSK10M	Rear Face	1.5	23095	w/o	2	25%	25	23.0	21.84	1.31	0.06	0.064	0.08
	LTE 12	QPSK10M	Right Side	1.1	23095	w/o	2	25%	25	23.0	21.84	1.31	0	0	0
	LTE 12	QPSK10M	Bottom Side	1.5	23095	w/o	2	25%	25	23.0	21.84	1.31	0	0	0
	LTE 12	QPSK10M	Rear Face	0	23095	w/	2	1%	0	17.5	17.14	1.09	-0.18	0.457	0.50
	LTE 12	QPSK10M	Right Side	0	23095	w/	2	1%	0	17.5	17.14	1.09	-0.05	0.624	0.68
	LTE 12	QPSK10M	Bottom Side	0	23095	w/	2	1%	0	17.5	17.14	1.09	0.05	0.186	0.20
	LTE 12	QPSK10M	Rear Face	0	23095	w/	2	25%	0	17.5	16.98	1.13	0.07	0.461	0.52
	LTE 12	QPSK10M	Right Side	0	23095	w/	2	25%	0	17.5	16.98	1.13	0.04	0.598	0.67
	LTE 12	QPSK10M	Bottom Side	0	23095	w/	2	25%	0	17.5	16.98	1.13	0.11	0.180	0.20

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	EUT Config.	RB#	RB Offset	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 13	QPSK10M	Rear Face	1.5	23230	w/o	1	1%	0	24.0	22.81	1.32	0.05	0.114	0.15
	LTE 13	QPSK10M	Right Side	1.1	23230	w/o	1	1%	0	24.0	22.81	1.32	-0.19	0.128	0.17
	LTE 13	QPSK10M	Bottom Side	1.5	23230	w/o	1	1%	0	24.0	22.81	1.32	-0.07	0.009	0.01
	LTE 13	QPSK10M	Rear Face	1.5	23230	w/o	1	25%	0	23.0	21.54	1.40	0.11	0.116	0.16
	LTE 13	QPSK10M	Right Side	1.1	23230	w/o	1	25%	0	23.0	21.54	1.40	0.14	0.26	0.36
	LTE 13	QPSK10M	Bottom Side	1.5	23230	w/o	1	25%	0	23.0	21.54	1.40	0.06	0.07	0.10
	LTE 13	QPSK10M	Rear Face	0	23230	w/	1	1%	0	19.5	19.36	1.03	0.01	1.16	1.20
09	LTE 13	QPSK10M	Right Side	0	23230	w/	1	1%	0	19.5	19.36	1.03	0	1.19	1.23
	LTE 13	QPSK10M	Bottom Side	0	23230	w/	1	1%	0	19.5	19.36	1.03	0.09	0.11	0.11
	LTE 13	QPSK10M	Rear Face	0	23230	w/	1	25%	0	19.5	19.30	1.05	-0.01	0.988	1.03
	LTE 13	QPSK10M	Right Side	0	23230	w/	1	25%	0	19.5	19.30	1.05	0	1.09	1.14
	LTE 13	QPSK10M	Bottom Side	0	23230	w/	1	25%	0	19.5	19.30	1.05	0.02	0.221	0.23
	LTE 13	QPSK10M	Rear Face	0	23230	w/	1	50%	0	19.5	19.23	1.06	0.06	1.1	1.17
	LTE 13	QPSK10M	Right Side	0	23230	w/	1	50%	0	19.5	19.23	1.06	-0.09	1.12	1.19
	LTE 13	QPSK10M	Right Side	0	23230	w/	1	1%	0	19.5	19.36	1.03	-0.04	1.14	1.18
	LTE 13	QPSK10M	Rear Face	1.5	23230	w/o	2	1%	0	24.0	22.81	1.32	0.02	0.145	0.19
	LTE 13	QPSK10M	Right Side	1.1	23230	w/o	2	1%	0	24.0	22.81	1.32	-0.15	0.119	0.16
	LTE 13	QPSK10M	Bottom Side	1.5	23230	w/o	2	1%	0	24.0	22.81	1.32	0.11	0.066	0.09
	LTE 13	QPSK10M	Rear Face	1.5	23230	w/o	2	25%	0	23.0	21.54	1.40	0.09	0.138	0.19
	LTE 13	QPSK10M	Right Side	1.1	23230	w/o	2	25%	0	23.0	21.54	1.40	0.04	0.125	0.17
	LTE 13	QPSK10M	Bottom Side	1.5	23230	w/o	2	25%	0	23.0	21.54	1.40	-0.05	0.066	0.09
	LTE 13	QPSK10M	Rear Face	0	23230	w/	2	1%	0	19.5	19.36	1.03	-0.05	0.846	0.87
	LTE 13	QPSK10M	Right Side	0	23230	w/	2	1%	0	19.5	19.36	1.03	0.08	1.08	1.12
	LTE 13	QPSK10M	Bottom Side	0	23230	w/	2	1%	0	19.5	19.36	1.03	0	0.243	0.25
	LTE 13	QPSK10M	Rear Face	0	23230	w/	2	25%	0	19.5	19.30	1.05	0.01	0.834	0.87
	LTE 13	QPSK10M	Right Side	0	23230	w/	2	25%	0	19.5	19.30	1.05	-0.06	1.05	1.10
	LTE 13	QPSK10M	Bottom Side	0	23230	w/	2	25%	0	19.5	19.30	1.05	0.04	0.322	0.34
	LTE 13	QPSK10M	Rear Face	0	23230	w/	2	50%	0	19.5	19.23	1.06	-0.12	0.880	0.94
	LTE 13	QPSK10M	Right Side	0	23230	w/	2	50%	0	19.5	19.23	1.06	-0.07	1.1	1.17

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	EUT Config.	RB#	RB Offset	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 25	QPSK20M	Rear Face	1.5	26590	w/o	1	1%	0	24.0	23.10	1.23	0.15	0.12	0.15
	LTE 25	QPSK20M	Right Side	1.1	26590	w/o	1	1%	0	24.0	23.10	1.23	-0.06	0.056	0.07
	LTE 25	QPSK20M	Bottom Side	1.5	26590	w/o	1	1%	0	24.0	23.10	1.23	0.08	0.095	0.12
	LTE 25	QPSK20M	Rear Face	1.5	26590	w/o	1	50%	0	23.0	22.03	1.25	-0.11	0.115	0.14
	LTE 25	QPSK20M	Right Side	1.1	26590	w/o	1	50%	0	23.0	22.03	1.25	0.03	0.059	0.07
	LTE 25	QPSK20M	Bottom Side	1.5	26590	w/o	1	50%	0	23.0	22.03	1.25	0	0.089	0.11
	LTE 25	QPSK20M	Rear Face	0	26590	w/	1	1%	0	16.5	15.98	1.13	-0.06	1.06	1.19
	LTE 25	QPSK20M	Right Side	0	26590	w/	1	1%	0	16.5	15.98	1.13	-0.11	1.12	1.26
	LTE 25	QPSK20M	Bottom Side	0	26590	w/	1	1%	0	16.5	15.98	1.13	0.04	0.457	0.52
	LTE 25	QPSK20M	Rear Face	0	26590	w/	1	50%	0	16.5	15.96	1.13	0.09	1.00	1.13
	LTE 25	QPSK20M	Right Side	0	26590	w/	1	50%	0	16.5	15.96	1.13	0.03	1.09	1.23
	LTE 25	QPSK20M	Bottom Side	0	26590	w/	1	50%	0	16.5	15.96	1.13	0	0.440	0.50
	LTE 25	QPSK20M	Rear Face	0	26590	w/	1	100%	0	16.5	15.92	1.14	-0.06	1.10	1.26
	LTE 25	QPSK20M	Right Side	0	26590	w/	1	100%	0	16.5	15.92	1.14	0.02	1.11	1.27
	LTE 25	QPSK20M	Rear Face	0	26140	w/	1	1%	0	16.5	15.95	1.14	0.01	1.08	1.23
	LTE 25	QPSK20M	Rear Face	0	26365	w/	1	1%	0	16.5	15.77	1.18	0.05	1.06	1.25
	LTE 25	QPSK20M	Right Side	0	26140	w/	1	1%	0	16.5	15.95	1.14	0.03	0.761	0.86
	LTE 25	QPSK20M	Right Side	0	26365	w/	1	1%	0	16.5	15.77	1.18	-0.08	1.03	1.22
	LTE 25	QPSK20M	Rear Face	0	26140	w/	1	50%	0	16.5	15.93	1.14	0.09	1.16	1.32
	LTE 25	QPSK20M	Rear Face	0	26365	w/	1	50%	0	16.5	15.84	1.16	-0.01	1.08	1.26
	LTE 25	QPSK20M	Right Side	0	26140	w/	1	50%	0	16.5	15.93	1.14	-0.02	0.811	0.92
	LTE 25	QPSK20M	Right Side	0	26365	w/	1	50%	0	16.5	15.84	1.16	0	0.941	1.10
	LTE 25	QPSK20M	Rear Face	1.5	26590	w/o	2	1%	0	24.0	23.10	1.23	-0.01	0.193	0.24
	LTE 25	QPSK20M	Right Side	1.1	26590	w/o	2	1%	0	24.0	23.10	1.23	-0.09	0.007	0.01
	LTE 25	QPSK20M	Bottom Side	1.5	26590	w/o	2	1%	0	24.0	23.10	1.23	0.13	0.15	0.18
	LTE 25	QPSK20M	Rear Face	1.5	26590	w/o	2	50%	0	23.0	22.03	1.25	0.05	0.184	0.23
	LTE 25	QPSK20M	Right Side	1.1	26590	w/o	2	50%	0	23.0	22.03	1.25	-0.08	0.007	0.01
	LTE 25	QPSK20M	Bottom Side	1.5	26590	w/o	2	50%	0	23.0	22.03	1.25	0.03	0.144	0.18
	LTE 25	QPSK20M	Rear Face	0	26590	w/	2	1%	0	16.5	15.98	1.13	-0.16	1.16	1.31
	LTE 25	QPSK20M	Right Side	0	26590	w/	2	1%	0	16.5	15.98	1.13	-0.06	0.362	0.41
	LTE 25	QPSK20M	Bottom Side	0	26590	w/	2	1%	0	16.5	15.98	1.13	0.03	0.681	0.77
	LTE 25	QPSK20M	Rear Face	0	26590	w/	2	50%	0	16.5	15.96	1.13	-0.13	1.21	1.37
	LTE 25	QPSK20M	Right Side	0	26590	w/	2	50%	0	16.5	15.96	1.13	0.04	0.379	0.43
	LTE 25	QPSK20M	Bottom Side	0	26590	w/	2	50%	0	16.5	15.96	1.13	0.08	0.668	0.76
	LTE 25	QPSK20M	Rear Face	0	26590	w/	2	100%	0	16.5	15.92	1.14	-0.06	1.20	1.37
10	LTE 25	QPSK20M	Rear Face	0	26140	w/	2	1%	0	16.5	15.95	1.14	0.02	1.22	1.38
	LTE 25	QPSK20M	Rear Face	0	26365	w/	2	1%	0	16.5	15.77	1.18	-0.16	1.17	1.38
	LTE 25	QPSK20M	Rear Face	0	26140	w/	2	50%	0	16.5	15.93	1.14	-0.11	1.19	1.36
	LTE 25	QPSK20M	Rear Face	0	26365	w/	2	50%	0	16.5	15.84	1.16	-0.17	1.18	1.37
	LTE 25	QPSK20M	Rear Face	0	26140	w/	2	1%	0	16.5	15.95	1.14	0.12	1.19	1.35

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	EUT Config.	RB#	RB Offset	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 26	QPSK15M	Rear Face	1.5	26865	w/o	1	1%	0	24.0	22.78	1.32	-0.09	0.205	0.27
	LTE 26	QPSK15M	Right Side	1.1	26865	w/o	1	1%	0	24.0	22.78	1.32	0.16	0.19	0.25
	LTE 26	QPSK15M	Bottom Side	1.5	26865	w/o	1	1%	0	24.0	22.78	1.32	0.04	0.086	0.11
	LTE 26	QPSK15M	Rear Face	1.5	26865	w/o	1	36%	0	23.0	21.65	1.36	-0.01	0.213	0.29
	LTE 26	QPSK15M	Right Side	1.1	26865	w/o	1	36%	0	23.0	21.65	1.36	-0.08	0.184	0.25
	LTE 26	QPSK15M	Bottom Side	1.5	26865	w/o	1	36%	0	23.0	21.65	1.36	0.11	0.088	0.12
	LTE 26	QPSK15M	Rear Face	0	26865	w/	1	1%	0	20.0	19.65	1.08	-0.07	0.946	1.03
	LTE 26	QPSK15M	Right Side	0	26865	w/	1	1%	0	20.0	19.65	1.08	0.11	0.84	0.91
	LTE 26	QPSK15M	Bottom Side	0	26865	w/	1	1%	0	20.0	19.65	1.08	0.04	0.126	0.14
	LTE 26	QPSK15M	Rear Face	0	26865	w/	1	36%	0	20.0	19.36	1.16	-0.03	0.882	1.02
	LTE 26	QPSK15M	Right Side	0	26865	w/	1	36%	0	20.0	19.36	1.16	0.08	0.88	1.02
	LTE 26	QPSK15M	Bottom Side	0	26865	w/	1	36%	0	20.0	19.36	1.16	0.03	0.145	0.17
	LTE 26	QPSK15M	Rear Face	0	26865	w/	1	75%	0	20.0	19.24	1.19	0.06	0.888	1.06
	LTE 26	QPSK15M	Right Side	0	26865	w/	1	75%	0	20.0	19.24	1.19	0.01	0.848	1.01
	LTE 26	QPSK15M	Rear Face	0	26765	w/	1	1%	0	20.0	19.30	1.17	-0.05	0.854	1.00
	LTE 26	QPSK15M	Rear Face	0	26965	w/	1	1%	0	20.0	18.96	1.27	0.06	0.756	0.96
	LTE 26	QPSK15M	Right Side	0	26765	w/	1	1%	0	20.0	19.30	1.17	-0.04	0.743	0.87
	LTE 26	QPSK15M	Right Side	0	26965	w/	1	1%	0	20.0	18.96	1.27	0.03	0.479	0.61
	LTE 26	QPSK15M	Rear Face	0	26765	w/	1	36%	0	20.0	19.01	1.26	-0.12	0.865	1.09
	LTE 26	QPSK15M	Rear Face	0	26965	w/	1	36%	0	20.0	18.70	1.35	-0.08	0.85	1.15
11	LTE 26	QPSK15M	Right Side	0	26765	w/	1	36%	0	20.0	19.01	1.26	-0.1	0.943	1.18
	LTE 26	QPSK15M	Right Side	0	26965	w/	1	36%	0	20.0	18.70	1.35	0.17	0.834	1.13
	LTE 26	QPSK15M	Right Side	0	26765	w/	1	36%	0	20.0	19.01	1.26	0.05	0.923	1.16
	LTE 26	QPSK15M	Rear Face	1.5	26865	w/o	2	1%	0	24.0	22.78	1.32	0.05	0.179	0.24
	LTE 26	QPSK15M	Right Side	1.1	26865	w/o	2	1%	0	24.0	22.78	1.32	-0.1	0.18	0.24
	LTE 26	QPSK15M	Bottom Side	1.5	26865	w/o	2	1%	0	24.0	22.78	1.32	-0.09	0.059	0.08
	LTE 26	QPSK15M	Rear Face	1.5	26865	w/o	2	36%	0	23.0	21.65	1.36	0.11	0.176	0.24
	LTE 26	QPSK15M	Right Side	1.1	26865	w/o	2	36%	0	23.0	21.65	1.36	0.18	0.166	0.23
	LTE 26	QPSK15M	Bottom Side	1.5	26865	w/o	2	36%	0	23.0	21.65	1.36	0	0.059	0.08
	LTE 26	QPSK15M	Rear Face	0	26865	w/	2	1%	0	20.0	19.65	1.08	0.02	0.694	0.75
	LTE 26	QPSK15M	Right Side	0	26865	w/	2	1%	0	20.0	19.65	1.08	0.04	0.776	0.84
	LTE 26	QPSK15M	Bottom Side	0	26865	w/	2	1%	0	20.0	19.65	1.08	0.05	0.218	0.24
	LTE 26	QPSK15M	Rear Face	0	26865	w/	2	36%	0	20.0	19.36	1.16	0.09	0.678	0.79
	LTE 26	QPSK15M	Right Side	0	26865	w/	2	36%	0	20.0	19.36	1.16	-0.07	0.776	0.90
	LTE 26	QPSK15M	Bottom Side	0	26865	w/	2	36%	0	20.0	19.36	1.16	0.11	0.226	0.26
	LTE 26	QPSK15M	Right Side	0	26865	w/	2	75%	0	20.0	19.24	1.19	-0.14	0.746	0.89
	LTE 26	QPSK15M	Right Side	0	26765	w/	2	1%	0	20.0	19.30	1.17	-0.14	0.870	1.02
	LTE 26	QPSK15M	Right Side	0	26965	w/	2	1%	0	20.0	18.96	1.27	-0.18	0.703	0.89
	LTE 26	QPSK15M	Right Side	0	26765	w/	2	36%	0	20.0	19.01	1.26	0.16	0.807	1.01
	LTE 26	QPSK15M	Right Side	0	26965	w/	2	36%	0	20.0	18.70	1.35	-0.02	0.698	0.94

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	EUT Config.	RB#	RB Offset	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 41	QPSK20M	Rear Face	1.5	41490	w/o	1	1%	0	23.0	21.83	1.31	-0.15	0.048	0.06
	LTE 41	QPSK20M	Right Side	1.1	41490	w/o	1	1%	0	23.0	21.83	1.31	-0.13	0.030	0.04
	LTE 41	QPSK20M	Bottom Side	1.5	41490	w/o	1	1%	0	23.0	21.83	1.31	-0.18	0.033	0.04
	LTE 41	QPSK20M	Rear Face	1.5	41490	w/o	1	50%	25	22.0	20.78	1.32	0.16	0.047	0.06
	LTE 41	QPSK20M	Right Side	1.1	41490	w/o	1	50%	25	22.0	20.78	1.32	-0.04	0.035	0.05
	LTE 41	QPSK20M	Bottom Side	1.5	41490	w/o	1	50%	25	22.0	20.78	1.32	0.07	0.033	0.04
	LTE 41	QPSK20M	Rear Face	0	41490	w/	1	1%	0	16.5	16.16	1.08	0.11	0.510	0.55
	LTE 41	QPSK20M	Right Side	0	41490	w/	1	1%	0	16.5	16.16	1.08	0.08	0.377	0.41
	LTE 41	QPSK20M	Bottom Side	0	41490	w/	1	1%	0	16.5	16.16	1.08	-0.10	0.098	0.11
	LTE 41	QPSK20M	Rear Face	0	41490	w/	1	50%	0	16.5	16.14	1.09	0.09	0.521	0.57
	LTE 41	QPSK20M	Right Side	0	41490	w/	1	50%	0	16.5	16.14	1.09	-0.08	0.375	0.41
	LTE 41	QPSK20M	Bottom Side	0	41490	w/	1	50%	0	16.5	16.14	1.09	0.10	0.096	0.10
	LTE 41	QPSK20M	Rear Face	1.5	41490	w/o	2	1%	0	23.0	21.83	1.31	-0.08	0.032	0.04
	LTE 41	QPSK20M	Right Side	1.1	41490	w/o	2	1%	0	23.0	21.83	1.31	-0.16	0.053	0.07
	LTE 41	QPSK20M	Bottom Side	1.5	41490	w/o	2	1%	0	23.0	21.83	1.31	0.10	0.056	0.07
	LTE 41	QPSK20M	Rear Face	1.5	41490	w/o	2	50%	25	22.0	20.78	1.32	-0.12	0.036	0.05
	LTE 41	QPSK20M	Right Side	1.1	41490	w/o	2	50%	25	22.0	20.78	1.32	0.04	0.054	0.07
	LTE 41	QPSK20M	Bottom Side	1.5	41490	w/o	2	50%	25	22.0	20.78	1.32	0.13	0.055	0.07
	LTE 41	QPSK20M	Rear Face	0	41490	w/	2	1%	0	16.5	16.16	1.08	-0.08	0.452	0.49
	LTE 41	QPSK20M	Right Side	0	41490	w/	2	1%	0	16.5	16.16	1.08	-0.05	0.776	0.84
	LTE 41	QPSK20M	Bottom Side	0	41490	w/	2	1%	0	16.5	16.16	1.08	-0.11	0.304	0.33
	LTE 41	QPSK20M	Rear Face	0	41490	w/	2	50%	0	16.5	16.14	1.09	0.16	0.446	0.48
	LTE 41	QPSK20M	Right Side	0	41490	w/	2	50%	0	16.5	16.14	1.09	0.12	0.770	0.84
	LTE 41	QPSK20M	Bottom Side	0	41490	w/	2	50%	0	16.5	16.14	1.09	0.05	0.307	0.33
	LTE 41	QPSK20M	Right Side	0	41055	w/	2	100%	0	16.5	15.95	1.14	-0.17	0.707	0.80
	LTE 41	QPSK20M	Right Side	0	39750	w/	2	1%	0	16.5	15.59	1.23	-0.10	0.828	1.02
	LTE 41	QPSK20M	Right Side	0	40185	w/	2	1%	0	16.5	15.74	1.19	-0.13	0.828	0.99
	LTE 41	QPSK20M	Right Side	0	40620	w/	2	1%	0	16.5	15.80	1.17	0.09	0.504	0.59
	LTE 41	QPSK20M	Right Side	0	41055	w/	2	1%	0	16.5	15.53	1.25	-0.07	0.653	0.82
12	LTE 41	QPSK20M	Right Side	0	39750	w/	2	50%	0	16.5	15.58	1.24	-0.07	0.869	1.07
	LTE 41	QPSK20M	Right Side	0	40185	w/	2	50%	0	16.5	15.72	1.20	-0.10	0.828	0.99
	LTE 41	QPSK20M	Right Side	0	40620	w/	2	50%	0	16.5	15.78	1.18	-0.06	0.465	0.55
	LTE 41	QPSK20M	Right Side	0	41055	w/	2	50%	0	16.5	15.52	1.25	0.11	0.513	0.64
	LTE 41	QPSK20M	Right Side	0	39750	w/	2	50%	0	16.5	15.58	1.24	0.03	0.825	1.02

Laptop PC Mode

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Keyboard	EUT Config.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
13	WCDMA II	RMC12.2K	Bottom Side	0	9262	M	1	24.0	23.28	1.18	-0.12	0.774	0.91
	WCDMA II	RMC12.2K	Bottom Side	0	9262	WC	1	24.0	23.28	1.18	0.11	0.695	0.82
	WCDMA II	RMC12.2K	Bottom Side	0	9400	M	1	24.0	23.21	1.20	-0.05	0.735	0.88
	WCDMA II	RMC12.2K	Bottom Side	0	9538	M	1	24.0	23.15	1.22	-0.17	0.747	0.91
	WCDMA II	RMC12.2K	Bottom Side	0	9262	M	2	24.0	23.28	1.18	-0.11	0.398	0.47
	WCDMA II	RMC12.2K	Bottom Side	0	9262	WC	2	24.0	23.28	1.18	0.02	0.383	0.45
14	WCDMA IV	RMC12.2K	Bottom Side	0	1513	M	1	24.0	23.18	1.21	-0.12	0.516	0.62
	WCDMA IV	RMC12.2K	Bottom Side	0	1513	WC	1	24.0	23.18	1.21	0.07	0.303	0.37
	WCDMA IV	RMC12.2K	Bottom Side	0	1513	M	2	24.0	23.18	1.21	0.15	0.429	0.52
	WCDMA IV	RMC12.2K	Bottom Side	0	1513	WC	2	24.0	23.18	1.21	0.08	0.388	0.47
	WCDMA V	RMC12.2K	Bottom Side	0	4233	M	1	24.0	22.50	1.41	0.04	0.183	0.26
	WCDMA V	RMC12.2K	Bottom Side	0	4233	WC	1	24.0	22.50	1.41	-0.13	0.177	0.25
15	WCDMA V	RMC12.2K	Bottom Side	0	4233	M	2	24.0	22.50	1.41	-0.01	0.187	0.26
	WCDMA V	RMC12.2K	Bottom Side	0	4233	WC	2	24.0	22.50	1.41	-0.12	0.183	0.26

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Keyboard	EUT Config.	RB#	RB Offset	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	LTE 2	QPSK20M	Bottom Side	0	18700	M	1	1%	0	24.0	23.08	1.24	-0.16	0.625	0.77
	LTE 2	QPSK20M	Bottom Side	0	18700	M	1	50%	25	23.0	21.97	1.27	0.11	0.501	0.64
	LTE 2	QPSK20M	Bottom Side	0	18700	WC	1	1%	0	24.0	23.08	1.24	0.07	0.585	0.72
	LTE 2	QPSK20M	Bottom Side	0	18700	M	2	1%	0	24.0	23.08	1.24	0.03	0.404	0.50
	LTE 2	QPSK20M	Bottom Side	0	18700	M	2	50%	25	23.0	21.97	1.27	0.08	0.311	0.39
	LTE 2	QPSK20M	Bottom Side	0	18700	WC	2	1%	0	24.0	23.08	1.24	-0.15	0.373	0.46
	LTE 4	QPSK20M	Bottom Side	0	20050	M	1	1%	0	24.0	23.09	1.23	-0.02	0.193	0.24
	LTE 4	QPSK20M	Bottom Side	0	20050	M	1	50%	0	23.0	22.01	1.26	-0.17	0.166	0.21
	LTE 4	QPSK20M	Bottom Side	0	20050	WC	1	1%	0	24.0	23.09	1.23	0.08	0.122	0.15
17	LTE 4	QPSK20M	Bottom Side	0	20050	M	2	1%	0	24.0	23.09	1.23	-0.03	0.346	0.43
	LTE 4	QPSK20M	Bottom Side	0	20050	M	2	50%	0	23.0	22.01	1.26	0.17	0.283	0.36
	LTE 4	QPSK20M	Bottom Side	0	20050	WC	2	1%	0	24.0	23.09	1.23	0.08	0.259	0.32
	LTE 5	QPSK10M	Bottom Side	0	20525	M	1	1%	0	24.0	22.43	1.44	0.01	0.156	0.22
	LTE 5	QPSK10M	Bottom Side	0	20525	M	1	25%	12	23.0	21.36	1.46	0.13	0.122	0.18
	LTE 5	QPSK10M	Bottom Side	0	20525	WC	1	1%	0	24.0	22.43	1.44	-0.07	0.151	0.22
18	LTE 5	QPSK10M	Bottom Side	0	20525	M	2	1%	0	24.0	22.43	1.44	0.10	0.161	0.23
	LTE 5	QPSK10M	Bottom Side	0	20525	M	2	25%	12	23.0	21.36	1.46	-0.12	0.129	0.19
	LTE 5	QPSK10M	Bottom Side	0	20525	WC	2	1%	0	24.0	22.43	1.44	-0.08	0.153	0.22
	LTE 7	QPSK20M	Bottom Side	0	21100	M	1	1%	0	23.0	21.64	1.37	0	0.116	0.16
	LTE 7	QPSK20M	Bottom Side	0	21100	M	1	50%	50	22.0	20.58	1.39	0.04	0.092	0.13
	LTE 7	QPSK20M	Bottom Side	0	21100	WC	1	1%	0	23.0	21.64	1.37	-0.05	0.107	0.15
19	LTE 7	QPSK20M	Bottom Side	0	21100	M	2	1%	0	23.0	21.64	1.37	-0.01	0.185	0.25
	LTE 7	QPSK20M	Bottom Side	0	21100	M	2	50%	50	22.0	20.58	1.39	0	0.146	0.20
	LTE 7	QPSK20M	Bottom Side	0	21100	WC	2	1%	0	23.0	21.64	1.37	-0.11	0.177	0.24
20	LTE 12	QPSK10M	Bottom Side	0	23095	M	1	1%	0	24.0	23.07	1.24	-0.04	0.116	0.14
	LTE 12	QPSK10M	Bottom Side	0	23095	M	1	25%	25	23.0	21.84	1.31	0.07	0.084	0.11
	LTE 12	QPSK10M	Bottom Side	0	23095	WC	1	1%	0	24.0	23.07	1.24	-0.11	0.108	0.13
	LTE 12	QPSK10M	Bottom Side	0	23095	M	2	1%	0	24.0	23.07	1.24	-0.06	0.115	0.14
	LTE 12	QPSK10M	Bottom Side	0	23095	M	2	25%	25	23.0	21.84	1.31	-0.09	0.089	0.12
	LTE 12	QPSK10M	Bottom Side	0	23095	WC	2	1%	0	24.0	23.07	1.24	0.12	0.114	0.14
	LTE 13	QPSK10M	Bottom Side	0	23230	M	1	1%	0	24.0	22.81	1.32	-0.07	0.133	0.17
	LTE 13	QPSK10M	Bottom Side	0	23230	M	1	25%	0	23.0	21.54	1.40	0.09	0.107	0.15
	LTE 13	QPSK10M	Bottom Side	0	23230	WC	1	1%	0	24.0	22.81	1.32	0.12	0.128	0.17
21	LTE 13	QPSK10M	Bottom Side	0	23230	M	2	1%	0	24.0	22.81	1.32	-0.07	0.142	0.19
	LTE 13	QPSK10M	Bottom Side	0	23230	M	2	25%	0	23.0	21.54	1.40	-0.07	0.112	0.16
	LTE 13	QPSK10M	Bottom Side	0	23230	WC	2	1%	0	24.0	22.81	1.32	0.11	0.135	0.18
22	LTE 25	QPSK20M	Bottom Side	0	26590	M	1	1%	0	24.0	23.10	1.23	-0.07	0.746	0.92
	LTE 25	QPSK20M	Bottom Side	0	26590	M	1	50%	0	23.0	22.03	1.25	0.11	0.543	0.68
	LTE 25	QPSK20M	Bottom Side	0	26590	WC	1	1%	0	24.0	23.10	1.23	-0.13	0.698	0.86
	LTE 25	QPSK20M	Bottom Side	0	26140	M	1	1%	0	24.0	23.05	1.24	0.07	0.682	0.85
	LTE 25	QPSK20M	Bottom Side	0	26365	M	1	1%	0	24.0	22.87	1.30	-0.01	0.703	0.91
	LTE 25	QPSK20M	Bottom Side	0	26590	M	1	100%	0	23.0	21.96	1.27	-0.05	0.623	0.79
	LTE 25	QPSK20M	Bottom Side	0	26590	M	2	1%	0	24.0	23.10	1.23	0.03	0.431	0.53
	LTE 25	QPSK20M	Bottom Side	0	26590	M	2	50%	0	23.0	22.03	1.25	-0.18	0.311	0.39
	LTE 25	QPSK20M	Bottom Side	0	26590	WC	2	1%	0	24.0	23.10	1.23	-0.07	0.395	0.49
	LTE 26	QPSK15M	Bottom Side	0	26865	M	1	1%	0	24.0	22.78	1.32	0.02	0.156	0.21
	LTE 26	QPSK15M	Bottom Side	0	26865	M	1	36%	0	23.0	21.65	1.36	-0.16	0.119	0.16
	LTE 26	QPSK15M	Bottom Side	0	26865	WC	1	1%	0	24.0	22.78	1.32	-0.05	0.146	0.19
23	LTE 26	QPSK15M	Bottom Side	0	26865	M	2	1%	0	24.0	22.78	1.32	-0.03	0.167	0.22
	LTE 26	QPSK15M	Bottom Side	0	26865	M	2	36%	0	23.0	21.65	1.36	-0.13	0.136	0.19
	LTE 26	QPSK15M	Bottom Side	0	26865	WC	2	1%	0	24.0	22.78	1.32	0.06	0.153	0.20
	LTE 41	QPSK20M	Bottom Side	0	41490	M	1	1%	0	23.0	21.83	1.31	-0.06	0.021	0.03
	LTE 41	QPSK20M	Bottom Side	0	41490	M	1	50%	25	22.0	20.78	1.32	0.16	0.000	0
	LTE 41	QPSK20M	Bottom Side	0	41490	WC	1	1%	0	23.0	21.83	1.31	0.07	0.013	0.02
24	LTE 41	QPSK20M	Bottom Side	0	41490	M	2	1%	0	23.0	21.83	1.31	-0.07	0.048	0.06
	LTE 41	QPSK20M	Bottom Side	0	41490	M	2	50%	25	22.0	20.78	1.32	0.05	0.037	0.05
	LTE 41	QPSK20M	Bottom Side	0	41490	WC	2	1%	0	23.0	21.83	1.31	0.07	0.036	0.05

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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.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Mode	Test Position	Ch.	EUT Config.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
WCDMA II	RMC12.2K	Rear Face	9262	2	1.11	1.08	1.03	N/A	N/A	N/A	N/A
WCDMA IV	RMC12.2K	Rear Face	1413	2	0.997	0.973	1.02	N/A	N/A	N/A	N/A
WCDMA V	RMC12.2K	Right Side	4233	1	1.12	1.1	1.02	N/A	N/A	N/A	N/A
LTE 2	QPSK20M	Rear Face	19100	2	1.18	1.09	1.08	N/A	N/A	N/A	N/A
LTE 4	QPSK20M	Rear Face	20175	2	1.12	1.06	1.06	N/A	N/A	N/A	N/A
LTE 5	QPSK10M	Rear Face	20525	1	0.924	0.909	1.02	N/A	N/A	N/A	N/A
LTE 7	QPSK10M	Rear Face	20850	1	0.817	0.802	1.02	N/A	N/A	N/A	N/A
LTE 12	QPSK10M	Right Side	23095	1	1.02	0.976	1.05	N/A	N/A	N/A	N/A
LTE 13	QPSK10M	Right Side	23230	1	1.19	1.14	1.04	N/A	N/A	N/A	N/A
LTE 25	QPSK20M	Rear Face	26140	2	1.22	1.19	1.03	N/A	N/A	N/A	N/A
LTE 26	QPSK15M	Right Side	26765	1	0.943	0.923	1.02	N/A	N/A	N/A	N/A
LTE 41	QPSK15M	Right Side	39750	2	0.869	0.825	1.05	N/A	N/A	N/A	N/A

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4.7.4 Simultaneous Multi-band Transmission Evaluation

<Estimated SAR Calculation>

The SAR exemption limits outlined in clause 2.5.1 of RSS_102 have been derived based on an approximate SAR value of 0.4 W/kg (kilogram) using halfwave dipole antennas. As such, when simultaneous transmitter SAR evaluations include transmitters that have been exempt from routine SAR evaluation, the SAR must be estimating based on the ratio between the maximum tuneup tolerance limit of the transmitter that has been exempt and the exemption limit at the specific distance and frequency for that transmitter. This ratio must be multiplied by 0.4 W/kg (2.0 W/kg for controlled use and 1.0 W/kg for limb worn devices) in order to calculate the estimated SAR level.

The estimate SAR value is calculated based the following equation:

$$\frac{\text{maximum power level including tune – up tolerance for transmitter A}}{\text{maximum power level of exemption at the same frequency and distance}} \times 0.4 \text{ W/kg}$$

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Estimated SAR (W/kg)
WCDMA II	1.907	24.0	Body	5	0.40
WCDMA IV	1.752	24.0	Body	5	0.40
WCDMA V	0.846	24.0	Body	5	0.40
LTE 2	1.909	24.0	Body	5	0.40
LTE 4	1.754	24.0	Body	5	0.40
LTE 5	0.848	24.0	Body	5	0.40
LTE 7	2.567	23.0	Body	5	0.40
LTE 12	0.715	24.0	Body	5	0.40
LTE 13	0.784	24.0	Body	5	0.40
LTE 25	1.914	24.0	Body	5	0.40
LTE 26	0.848	24.0	Body	5	0.40
LTE 41	2.687	23.0	Body	5	0.40

Note:

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

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<SAR Summation Analysis>

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.

Tablet PC Mode

No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
1	1	WCDMA II + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.17	0.77	1.01	2.95	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.72	0	0.14	0.86	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.50	0	0	0.5	Σ SAR < 1.6, Not required
2	1	WCDMA II + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.17	1.19	1.36	3.72	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.72	0	0.16	0.88	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.50	0	0	0.5	Σ SAR < 1.6, Not required
3	1	WCDMA II + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.17	0.77	0.35	2.29	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.72	0	0.07	0.79	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.50	0	0	0.5	Σ SAR < 1.6, Not required
4	1	WCDMA II + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.17	1.19	0.35	2.71	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.72	0	0.07	0.79	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.50	0	0	0.5	Σ SAR < 1.6, Not required

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5	2	WCDMA II + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.22	0.74	0.91	2.87	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.28	0	0.1	0.38	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.76	0	0	0.76	Σ SAR < 1.6, Not required
6	2	WCDMA II + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.22	1.21	1.22	3.65	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.28	0	0.1	0.38	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.76	0	0	0.76	Σ SAR < 1.6, Not required
7	2	WCDMA II + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.22	0.74	0.35	2.31	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.28	0	0.05	0.33	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.76	0	0	0.76	Σ SAR < 1.6, Not required
8	2	WCDMA II + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.22	1.21	0.35	2.78	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.28	0	0.05	0.33	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.76	0	0	0.76	Σ SAR < 1.6, Not required

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No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
9	1	WCDMA IV + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.02	0.77	1.01	2.8	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.24	0	0.14	0.38	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.51	0	0	0.51	Σ SAR < 1.6, Not required
10	1	WCDMA IV + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.02	1.19	1.36	3.57	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.24	0	0.16	0.40	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.51	0	0	0.51	Σ SAR < 1.6, Not required
11	1	WCDMA IV + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.02	0.77	0.35	2.14	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.24	0	0.07	0.31	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.51	0	0	0.51	Σ SAR < 1.6, Not required
12	1	WCDMA IV + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.02	1.19	0.35	2.56	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.24	0	0.07	0.31	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.51	0	0	0.51	Σ SAR < 1.6, Not required

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13	2	WCDMA IV + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.11	0.74	0.91	2.76	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.14	0	0.1	0.24	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.9	0	0	0.9	Σ SAR < 1.6, Not required
14	2	WCDMA IV + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.11	1.21	1.22	3.54	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.14	0	0.1	0.24	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.9	0	0	0.9	Σ SAR < 1.6, Not required
15	2	WCDMA IV + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.11	0.74	0.35	2.2	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.14	0	0.05	0.19	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.9	0	0	0.9	Σ SAR < 1.6, Not required
16	2	WCDMA IV + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.11	1.21	0.35	2.67	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.14	0	0.05	0.19	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.9	0	0	0.9	Σ SAR < 1.6, Not required

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No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
17	1	WCDMA V + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.9	0.77	1.01	2.68	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.19	0	0.14	1.33	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.17	0	0	0.17	Σ SAR < 1.6, Not required
18	1	WCDMA V + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.9	1.19	1.36	3.45	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.19	0	0.16	1.35	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.17	0	0	0.17	Σ SAR < 1.6, Not required
19	1	WCDMA V + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.9	0.77	0.35	2.02	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.19	0	0.07	1.26	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.17	0	0	0.17	Σ SAR < 1.6, Not required
20	1	WCDMA V + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.9	1.19	0.35	2.44	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.19	0	0.07	1.26	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.17	0	0	0.17	Σ SAR < 1.6, Not required

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21	2	WCDMA V + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.84	0.74	0.91	2.49	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.84	0	0.1	0.94	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.28	0	0	0.28	Σ SAR < 1.6, Not required
22	2	WCDMA V + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.84	1.21	1.22	3.27	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.84	0	0.1	0.94	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.28	0	0	0.28	Σ SAR < 1.6, Not required
23	2	WCDMA V + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.84	0.74	0.35	1.93	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.84	0	0.05	0.89	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.28	0	0	0.28	Σ SAR < 1.6, Not required
24	2	WCDMA V + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.84	1.21	0.35	2.4	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.84	0	0.05	0.89	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.28	0	0	0.28	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
25	1	LTE 2 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.25	0.77	1.01	3.03	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.76	0	0.14	0.90	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.50	0	0	0.50	Σ SAR < 1.6, Not required
26	1	LTE 2 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.25	1.19	1.36	3.8	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.76	0	0.16	0.92	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.80	Σ SAR < 1.6, Not required
				Bottom Side	0.50	0	0	0.50	Σ SAR < 1.6, Not required
27	1	LTE 2 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.25	0.77	0.35	2.37	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.76	0	0.07	0.83	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.50	0	0	0.50	Σ SAR < 1.6, Not required
28	1	LTE 2 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.25	1.19	0.35	2.79	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.76	0	0.07	0.83	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.50	0	0	0.50	Σ SAR < 1.6, Not required

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29	2	LTE 2 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.36	0.74	0.91	3.01	Analyzed as below
				Left Side	0.4	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.38	0	0.1	0.48	Σ SAR < 1.6, Not required
				Top Side	0.4	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.74	0	0	0.74	Σ SAR < 1.6, Not required
30	2	LTE 2 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.36	1.21	1.22	3.79	Analyzed as below
				Left Side	0.4	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.38	0	0.1	0.48	Σ SAR < 1.6, Not required
				Top Side	0.4	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.74	0	0	0.74	Σ SAR < 1.6, Not required
31	2	LTE 2 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.36	0.74	0.35	2.45	Analyzed as below
				Left Side	0.4	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.38	0	0.05	0.43	Σ SAR < 1.6, Not required
				Top Side	0.4	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.74	0	0	0.74	Σ SAR < 1.6, Not required
32	2	LTE 2 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.36	1.21	0.35	2.92	Analyzed as below
				Left Side	0.4	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.38	0	0.05	0.43	Σ SAR < 1.6, Not required
				Top Side	0.4	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.74	0	0	0.74	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
33	1	LTE 4 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.26	0.77	1.01	3.04	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.37	0	0.14	0.51	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.74	0	0	0.74	Σ SAR < 1.6, Not required
34	1	LTE 4 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.26	1.19	1.36	3.81	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.37	0	0.16	0.53	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.74	0	0	0.74	Σ SAR < 1.6, Not required
35	1	LTE 4 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.26	0.77	0.35	2.38	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.37	0	0.07	0.44	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.74	0	0	0.74	Σ SAR < 1.6, Not required
36	1	LTE 4 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.26	1.19	0.35	2.8	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.37	0	0.07	0.44	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.74	0	0	0.74	Σ SAR < 1.6, Not required

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37	2	LTE 4 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.34	0.74	0.91	2.99	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.21	0	0.1	0.31	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	1.05	0	0	1.05	Σ SAR < 1.6, Not required
38	2	LTE 4 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.34	1.21	1.22	3.77	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.21	0	0.1	0.31	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	1.05	0	0	1.05	Σ SAR < 1.6, Not required
39	2	LTE 4 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.34	0.74	0.35	2.43	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.21	0	0.05	0.26	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	1.05	0	0	1.05	Σ SAR < 1.6, Not required
40	2	LTE 4 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.34	1.21	0.35	2.9	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.21	0	0.05	0.26	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	1.05	0	0	1.05	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
41	1	LTE 5 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.99	0.77	1.01	2.77	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.84	0	0.14	0.98	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.16	0	0	0.16	Σ SAR < 1.6, Not required
42	1	LTE 5 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.99	1.19	1.36	3.54	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.84	0	0.16	1	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.16	0	0	0.16	Σ SAR < 1.6, Not required
43	1	LTE 5 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.99	0.77	0.35	2.11	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.84	0	0.07	0.91	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.16	0	0	0.16	Σ SAR < 1.6, Not required
44	1	LTE 5 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.99	1.19	0.35	2.53	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.84	0	0.07	0.91	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.16	0	0	0.16	Σ SAR < 1.6, Not required

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45	2	LTE 5 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.61	0.74	0.91	2.26	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.83	0	0.1	0.93	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.22	0	0	0.22	Σ SAR < 1.6, Not required
46	2	LTE 5 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.61	1.21	1.22	3.04	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.83	0	0.1	0.93	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.22	0	0	0.22	Σ SAR < 1.6, Not required
47	2	LTE 5 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.61	0.74	0.35	1.7	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.83	0	0.05	0.88	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.22	0	0	0.22	Σ SAR < 1.6, Not required
48	2	LTE 5 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.61	1.21	0.35	2.17	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.83	0	0.05	0.88	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.22	0	0	0.22	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
49	1	LTE 7 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.85	0.77	1.01	2.63	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.7	0	0.14	0.84	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.16	0	0	0.16	Σ SAR < 1.6, Not required
50	1	LTE 7 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.85	1.19	1.36	3.4	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.7	0	0.16	0.86	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.16	0	0	0.16	Σ SAR < 1.6, Not required
51	1	LTE 7 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.85	0.77	0.35	1.97	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.7	0	0.07	0.77	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.16	0	0	0.16	Σ SAR < 1.6, Not required
52	1	LTE 7 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.85	1.19	0.35	2.39	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.7	0	0.07	0.77	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.16	0	0	0.16	Σ SAR < 1.6, Not required

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53	2	LTE 7 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.54	0.74	0.91	2.19	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.66	0	0.1	0.76	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.3	0	0	0.3	Σ SAR < 1.6, Not required
54	2	LTE 7 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.54	1.21	1.22	2.97	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.66	0	0.1	0.76	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.3	0	0	0.3	Σ SAR < 1.6, Not required
55	2	LTE 7 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.54	0.74	0.35	1.63	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.66	0	0.05	0.71	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.3	0	0	0.3	Σ SAR < 1.6, Not required
56	2	LTE 7 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.54	1.21	0.35	2.1	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.66	0	0.05	0.71	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.3	0	0	0.3	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
57	1	LTE 12 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.65	0.77	1.01	2.43	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.15	0	0.14	1.29	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.15	0	0	0.15	Σ SAR < 1.6, Not required
58	1	LTE 12 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.65	1.19	1.36	3.2	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.15	0	0.16	1.31	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.15	0	0	0.15	Σ SAR < 1.6, Not required
59	1	LTE 12 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.65	0.77	0.35	1.77	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.15	0	0.07	1.22	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.15	0	0	0.15	Σ SAR < 1.6, Not required
60	1	LTE 12 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.65	1.19	0.35	2.19	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.15	0	0.07	1.22	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.15	0	0	0.15	Σ SAR < 1.6, Not required

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61	2	LTE 12 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.52	0.74	0.91	2.17	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.68	0	0.1	0.78	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.2	0	0	0.2	Σ SAR < 1.6, Not required
62	2	LTE 12 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.52	1.21	1.22	2.95	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.68	0	0.1	0.78	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.2	0	0	0.2	Σ SAR < 1.6, Not required
63	2	LTE 12 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.52	0.74	0.35	1.61	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.68	0	0.05	0.73	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.2	0	0	0.2	Σ SAR < 1.6, Not required
64	2	LTE 12 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.52	1.21	0.35	2.08	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.68	0	0.05	0.73	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.2	0	0	0.2	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
65	1	LTE 13 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.2	0.77	1.01	2.98	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.23	0	0.14	1.37	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.23	0	0	0.23	Σ SAR < 1.6, Not required
66	1	LTE 13 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.2	1.19	1.36	3.75	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.23	0	0.16	1.39	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.23	0	0	0.23	Σ SAR < 1.6, Not required
67	1	LTE 13 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.2	0.77	0.35	2.32	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.23	0	0.07	1.3	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.23	0	0	0.23	Σ SAR < 1.6, Not required
68	1	LTE 13 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.2	1.19	0.35	2.74	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.23	0	0.07	1.3	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.23	0	0	0.23	Σ SAR < 1.6, Not required

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69	2	LTE 13 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.94	0.74	0.91	2.59	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	1.17	0	0.1	1.27	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.34	0	0	0.34	Σ SAR < 1.6, Not required
70	2	LTE 13 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.94	1.21	1.22	3.37	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	1.17	0	0.1	1.27	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.34	0	0	0.34	Σ SAR < 1.6, Not required
71	2	LTE 13 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.94	0.74	0.35	2.03	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	1.17	0	0.05	1.22	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.34	0	0	0.34	Σ SAR < 1.6, Not required
72	2	LTE 13 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.94	1.21	0.35	2.5	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	1.17	0	0.05	1.22	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.34	0	0	0.34	Σ SAR < 1.6, Not required

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No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
73	1	LTE 25 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.32	0.77	1.01	3.1	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.27	0	0.14	1.41	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.52	0	0	0.52	Σ SAR < 1.6, Not required
74	1	LTE 25 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.32	1.19	1.36	3.87	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.27	0	0.16	1.43	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.52	0	0	0.52	Σ SAR < 1.6, Not required
75	1	LTE 25 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.32	0.77	0.35	2.44	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.27	0	0.07	1.34	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.52	0	0	0.52	Σ SAR < 1.6, Not required
76	1	LTE 25 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.32	1.19	0.35	2.86	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.27	0	0.07	1.34	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.52	0	0	0.52	Σ SAR < 1.6, Not required

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77	2	LTE 25 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.38	0.74	0.91	3.03	Analyzed as below
				Left Side	0.4	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.43	0	0.1	0.53	Σ SAR < 1.6, Not required
				Top Side	0.4	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.77	0	0	0.77	Σ SAR < 1.6, Not required
78	2	LTE 25 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.38	1.21	1.22	3.81	Analyzed as below
				Left Side	0.4	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.43	0	0.1	0.53	Σ SAR < 1.6, Not required
				Top Side	0.4	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.77	0	0	0.77	Σ SAR < 1.6, Not required
79	2	LTE 25 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.38	0.74	0.35	2.47	Analyzed as below
				Left Side	0.4	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	0.43	0	0.05	0.48	Σ SAR < 1.6, Not required
				Top Side	0.4	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.77	0	0	0.77	Σ SAR < 1.6, Not required
80	2	LTE 25 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.38	1.21	0.35	2.94	Analyzed as below
				Left Side	0.4	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	0.43	0	0.05	0.48	Σ SAR < 1.6, Not required
				Top Side	0.4	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.77	0	0	0.77	Σ SAR < 1.6, Not required

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No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
81	1	LTE 26 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	1.15	0.77	1.01	2.93	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.18	0	0.14	1.32	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.17	0	0	0.17	Σ SAR < 1.6, Not required
82	1	LTE 26 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	1.15	1.19	1.36	3.7	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.18	0	0.16	1.34	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.17	0	0	0.17	Σ SAR < 1.6, Not required
83	1	LTE 26 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	1.15	0.77	0.35	2.27	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	1.18	0	0.07	1.25	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.17	0	0	0.17	Σ SAR < 1.6, Not required
84	1	LTE 26 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	1.15	1.19	0.35	2.69	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	1.18	0	0.07	1.25	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.17	0	0	0.17	Σ SAR < 1.6, Not required

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85	2	LTE 26 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.79	0.74	0.91	2.44	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	1.02	0	0.1	1.12	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.26	0	0	0.26	Σ SAR < 1.6, Not required
86	2	LTE 26 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.79	1.21	1.22	3.22	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	1.02	0	0.1	1.12	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.26	0	0	0.26	Σ SAR < 1.6, Not required
87	2	LTE 26 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.79	0.74	0.35	1.88	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	1.02	0	0.05	1.07	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.26	0	0	0.26	Σ SAR < 1.6, Not required
88	2	LTE 26 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.79	1.21	0.35	2.35	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	1.02	0	0.05	1.07	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.26	0	0	0.26	Σ SAR < 1.6, Not required

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No.	EUT Config.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
89	1	LTE 41 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.57	0.77	1.01	2.35	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.41	0	0.14	0.55	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.21	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.11	0	0	0.11	Σ SAR < 1.6, Not required
90	1	LTE 41 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.57	1.19	1.36	3.12	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.41	0	0.16	0.57	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.22	0.8	Σ SAR < 1.6, Not required
				Bottom Side	0.11	0	0	0.11	Σ SAR < 1.6, Not required
91	1	LTE 41 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.57	0.77	0.35	1.69	Analyzed as below
				Left Side	0.40	0.13	0	0.53	Σ SAR < 1.6, Not required
				Right Side	0.41	0	0.07	0.48	Σ SAR < 1.6, Not required
				Top Side	0.40	0.14	0.1	0.64	Σ SAR < 1.6, Not required
				Bottom Side	0.11	0	0	0.11	Σ SAR < 1.6, Not required
92	1	LTE 41 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.57	1.19	0.35	2.11	Analyzed as below
				Left Side	0.40	0.27	0	0.67	Σ SAR < 1.6, Not required
				Right Side	0.41	0	0.07	0.48	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.1	0.68	Σ SAR < 1.6, Not required
				Bottom Side	0.11	0	0	0.11	Σ SAR < 1.6, Not required

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93	2	LTE 41 + WLAN Ant 0 (DTS) + WLAN Ant 1 (DTS)	Body	Rear Face	0.49	0.74	0.91	2.14	Analyzed as below
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	1.07	0	0.1	1.17	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.16	0.71	Σ SAR < 1.6, Not required
				Bottom Side	0.33	0	0	0.33	Σ SAR < 1.6, Not required
94	2	LTE 41 + WLAN Ant 0 (NII) + WLAN Ant 1 (NII)	Body	Rear Face	0.49	1.21	1.22	2.92	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	1.07	0	0.1	1.17	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.17	0.75	Σ SAR < 1.6, Not required
				Bottom Side	0.33	0	0	0.33	Σ SAR < 1.6, Not required
95	2	LTE 41 + WLAN Ant 0 (DTS) + BT (DSS) Ant 1	Body	Rear Face	0.49	0.74	0.35	1.58	Σ SAR < 1.6, Not required
				Left Side	0.40	0.12	0	0.52	Σ SAR < 1.6, Not required
				Right Side	1.07	0	0.05	1.12	Σ SAR < 1.6, Not required
				Top Side	0.40	0.15	0.08	0.63	Σ SAR < 1.6, Not required
				Bottom Side	0.33	0	0	0.33	Σ SAR < 1.6, Not required
96	2	LTE 41 + WLAN Ant 0 (NII) + BT (DSS) Ant 1	Body	Rear Face	0.49	1.21	0.35	2.05	Analyzed as below
				Left Side	0.40	0.07	0	0.47	Σ SAR < 1.6, Not required
				Right Side	1.07	0	0.05	1.12	Σ SAR < 1.6, Not required
				Top Side	0.40	0.18	0.08	0.66	Σ SAR < 1.6, Not required
				Bottom Side	0.33	0	0	0.33	Σ SAR < 1.6, Not required

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<SAR to Peak Location Separation Ratio Analysis>

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following formula.

$$\text{Peak Location Separation Distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

The SPLSR is determined by the following formula.

$$\text{SPLSR} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{R_i}$$

Where SAR_1 and SAR_2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When the SPLSR is ≤ 0.04 , the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

EUT 1 with WLAN module

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Peak Location Separation Distance (R_i , mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA II_Ch9400	Body	Rear Face	1.17	232.0	0.01	SPLSR ≤ 0.04 , Not required
802.11b Ch6_Ant0			0.77			
WCDMA II_Ch9400	Body	Rear Face	1.17	184.2	0.02	SPLSR ≤ 0.04 , Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR ≤ 0.04 , Not required
802.11b Ch6_Ant1			1.01			
WCDMA II_Ch9400	Body	Rear Face	1.17	232.0	0.01	SPLSR ≤ 0.04 , Not required
802.11b Ch6_Ant0			0.77			
WCDMA II_Ch9400	Body	Rear Face	1.17	184.2	0.01	SPLSR ≤ 0.04 , Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR ≤ 0.04 , Not required
BT Ch39_Ant1			0.35			

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WCDMA IV_Ch1513	Body	Rear Face	1.02	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
WCDMA IV_Ch1513	Body	Rear Face	1.02	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
WCDMA IV_Ch1513	Body	Rear Face	1.02	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
WCDMA IV_Ch1513	Body	Rear Face	1.02	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
WCDMA V_Ch4233	Body	Rear Face	0.9	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
WCDMA V_Ch4233	Body	Rear Face	0.9	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
WCDMA V_Ch4233	Body	Rear Face	0.9	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
WCDMA V_Ch4233	Body	Rear Face	0.9	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 2_Ch18700	Body	Rear Face	1.26	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 2_Ch18700	Body	Rear Face	1.26	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 2_Ch18700	Body	Rear Face	1.26	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 2_Ch18700	Body	Rear Face	1.26	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			

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LTE 4 _Ch20300	Body	Rear Face	1.26	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 4 _Ch20300	Body	Rear Face	1.26	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 4 _Ch20300	Body	Rear Face	1.26	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 4 _Ch20300	Body	Rear Face	1.26	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 5 _Ch20450	Body	Rear Face	0.99	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 5 _Ch20450	Body	Rear Face	0.99	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 5 _Ch20450	Body	Rear Face	0.99	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 5 _Ch20450	Body	Rear Face	0.99	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 7 _Ch20850	Body	Rear Face	0.85	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 7 _Ch20850	Body	Rear Face	0.85	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 7 _Ch20850	Body	Rear Face	0.85	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 7 _Ch20850	Body	Rear Face	0.85	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			

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LTE 12 _Ch23095	Body	Rear Face	0.65	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 12 _Ch23095	Body	Rear Face	0.65	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 12 _Ch23095	Body	Rear Face	0.65	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 12 _Ch23095	Body	Rear Face	0.65	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 13 _Ch23230	Body	Rear Face	1.2	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 13 _Ch23230	Body	Rear Face	1.2	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 13 _Ch23230	Body	Rear Face	1.2	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 13 _Ch23230	Body	Rear Face	1.2	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 25 _Ch26140	Body	Rear Face	1.32	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 25 _Ch26140	Body	Rear Face	1.32	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 25 _Ch26140	Body	Rear Face	1.32	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 25 _Ch26140	Body	Rear Face	1.32	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			

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LTE 26 _Ch26965	Body	Rear Face	1.15	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 26 _Ch26965	Body	Rear Face	1.15	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 26 _Ch26965	Body	Rear Face	1.15	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 26 _Ch26965	Body	Rear Face	1.15	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 41 _Ch41490	Body	Rear Face	0.57	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 41 _Ch41490	Body	Rear Face	0.57	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant1			1.01			
LTE 41 _Ch41490	Body	Rear Face	0.57	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.77			
LTE 41 _Ch41490	Body	Rear Face	0.57	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.77	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			

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EUT 2 with WLAN module

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Peak Location Separation Distance (R _i , mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA II_Ch9262	Body	Rear Face	1.22	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
WCDMA II_Ch9262	Body	Rear Face	1.22	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
WCDMA II_Ch9262	Body	Rear Face	1.22	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
WCDMA II_Ch9262	Body	Rear Face	1.22	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
WCDMA IV_Ch1413	Body	Rear Face	1.11	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
WCDMA IV_Ch1413	Body	Rear Face	1.11	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
WCDMA IV_Ch1413	Body	Rear Face	1.11	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
WCDMA IV_Ch1413	Body	Rear Face	1.11	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
WCDMA V_Ch4132	Body	Rear Face	0.84	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
WCDMA V_Ch4132	Body	Rear Face	0.84	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
WCDMA V_Ch4132	Body	Rear Face	0.84	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
WCDMA V_Ch4132	Body	Rear Face	0.84	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			

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LTE 2_Ch19100	Body	Rear Face	1.36	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 2_Ch19100	Body	Rear Face	1.36	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
LTE 2_Ch19100	Body	Rear Face	1.36	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 2_Ch19100	Body	Rear Face	1.36	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 4_Ch20175	Body	Rear Face	1.34	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 4_Ch20175	Body	Rear Face	1.34	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
LTE 4_Ch20175	Body	Rear Face	1.34	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 4_Ch20175	Body	Rear Face	1.34	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 5_Ch20450	Body	Rear Face	0.61	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 5_Ch20450	Body	Rear Face	0.61	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
LTE 5_Ch20450	Body	Rear Face	0.61	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 5_Ch20450	Body	Rear Face	0.61	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			

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LTE 7_Ch21100	Body	Rear Face	0.54	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 7_Ch21100	Body	Rear Face	0.54	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
LTE 7_Ch21100	Body	Rear Face	0.54	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 7_Ch21100	Body	Rear Face	0.54	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 12_Ch23095	Body	Rear Face	0.52	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 12_Ch23095	Body	Rear Face	0.52	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
LTE 12_Ch23095	Body	Rear Face	0.52	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 12_Ch23095	Body	Rear Face	0.52	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 13_Ch23230	Body	Rear Face	0.94	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 13_Ch23230	Body	Rear Face	0.94	184.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch11_Ant1			0.91			
LTE 13_Ch23230	Body	Rear Face	0.94	232.0	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 13_Ch23230	Body	Rear Face	0.94	184.2	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR ≤ 0.04, Not required
BT Ch39_Ant1			0.35			

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LTE 25_Ch26140	Body	Rear Face	1.38	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 25_Ch26140	Body	Rear Face	1.38	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch11_Ant1			0.91			
LTE 25_Ch26140	Body	Rear Face	1.38	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 25_Ch26140	Body	Rear Face	1.38	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 26_Ch26865	Body	Rear Face	0.79	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 26_Ch26865	Body	Rear Face	0.79	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch11_Ant1			0.91			
LTE 26_Ch26865	Body	Rear Face	0.79	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 26_Ch26865	Body	Rear Face	0.79	184.2	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.01	SPLSR $\leq$ 0.04, Not required
BT Ch39_Ant1			0.35			
LTE 41_Ch41490	Body	Rear Face	0.49	232.0	0.01	SPLSR $\leq$ 0.04, Not required
802.11b Ch6_Ant0			0.74			
LTE 41_Ch41490	Body	Rear Face	0.49	184.2	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch11_Ant1			0.91			
802.11b Ch6_Ant0	Body	Rear Face	0.74	146.8	0.02	SPLSR $\leq$ 0.04, Not required
802.11b Ch11_Ant1			0.91			

Test Engineer : Stanley Chuang, and Sam Onn

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1013	Aug. 30, 2016	1 Year
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 25, 2016	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Aug. 31, 2016	1 Year
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 23, 2017	1 Year
System Validation Dipole	SPEAG	D2450V2	737	Aug. 26, 2016	1 Year
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 26, 2016	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Aug. 23, 2016	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3650	Jul. 25, 2016	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3864	Jul. 25, 2016	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Mar. 24, 2017	1 Year
Dosimetric E-Field Probe	SPEAG	ET3DV6	1790	Jun 24, 2016	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3820	Jun. 27, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE3	579	Sep. 05, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 20, 2017	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1277	Jul. 22, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE4	916	Dec. 15, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE3	360	Nov. 08, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE4	917	Jan. 06, 2017	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50260642	Dec. 02, 2016	1 Year
Radio Communication Analyzer	Anritsu	MT8820C	6201300638	Jul. 14, 2016	1 Year
MXG Analog Signal Generator	Agilent	N5181A	MY50143868	Jul. 07, 2016	1 Year
Power Meter	Anritsu	ML2495A	1218009	Jul. 06, 2016	1 Year
Power Sensor	Anritsu	MA2411B	1207252	Jul. 06, 2016	1 Year
Thermometer	YFE	YF-160A	130504591	Mar. 24, 2017	1 Year
Power Amplifier	AR	5S1G4	0339656	Sep. 21, 2016	1 Year
Attenuator	MTJ	MTJ6011-03	N/A	Sep. 21, 2016	1 Year
Attenuator	Woken	00800A1G01L-10	N/A	Sep. 21, 2016	1 Year
Directional Coupler	Woken	0110A05602O-10	11122702	Sep. 21, 2016	1 Year
Dielectric Assessment Kit	SPEAG	DAK-3.5	1151	Aug. 25, 2016	1 Year
ELI Phantom	SPEAG	QD OVA 001 BB	1043	N/A	N/A
ELI Phantom	SPEAG	QD OVA 002 AA	1206	N/A	N/A
ELI Phantom	SPEAG	QD OVA 002 AA	1245	N/A	N/A

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6. Measurement Uncertainty

Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	Rectangular	√3	√0.5	√0.5	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	√0.5	√0.5	3.9	3.9	∞
Boundary Effect	1.0	Rectangular	√3	1	1	0.6	0.6	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Probe Modulation Response	3.5	Rectangular	√3	1	1	2.0	2.0	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom	2.9	Rectangular	√3	1	1	1.7	1.7	∞
Post-processing	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Test Sample Related								
Test Sample Positioning	4.38 / 1.35	Normal	1	1	1	4.4	1.4	29
Device Holder Uncertainty	2.9 / 4.1	Normal	1	1	1	2.9	4.1	11
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Power Scaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.2	Rectangular	√3	1	1	4.2	4.2	∞
Liquid Conductivity (Temperature Uncertainty)	3.24	Rectangular	√3	0.78	0.71	1.5	1.3	∞
Liquid Conductivity (Measured)	2.88	Normal	1	0.78	0.71	2.2	2.0	43
Liquid Permittivity (Temperature Uncertainty)	1.13	Rectangular	√3	0.23	0.26	0.2	0.2	∞
Liquid Permittivity (Measured)	2.50	Normal	1	0.23	0.26	0.6	0.7	54
Combined Standard Uncertainty						± 11.8 %	± 11.3 %	
Expanded Uncertainty (K=2)						± 23.6 %	± 22.6 %	

Body SAR Uncertainty Budget for Frequency Range of 300 MHz to 3 GHz

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Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	3.9	3.9	∞
Boundary Effect	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Probe Modulation Response	3.5	Rectangular	√3	1	1	2.0	2.0	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom	6.7	Rectangular	√3	1	1	3.9	3.9	∞
Post-processing	4.0	Rectangular	√3	1	1	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	4.38 / 1.35	Normal	1	1	1	4.4	1.4	29
Device Holder Uncertainty	2.9 / 4.1	Normal	1	1	1	2.9	4.1	11
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Power Scaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.6	Rectangular	√3	1	1	4.4	4.4	∞
Liquid Conductivity (Temperature Uncertainty)	3.24	Rectangular	√3	0.78	0.71	1.5	1.3	∞
Liquid Conductivity (Measured)	2.88	Normal	1	0.78	0.71	2.2	2.0	43
Liquid Permittivity (Temperature Uncertainty)	1.13	Rectangular	√3	0.23	0.26	0.2	0.2	∞
Liquid Permittivity (Measured)	2.50	Normal	1	0.23	0.26	0.6	0.7	54
Combined Standard Uncertainty						± 12.8 %	± 12.4 %	
Expanded Uncertainty (K=2)						± 25.6 %	± 24.8 %	

Body SAR Uncertainty Budget for Frequency Range of 3 GHz to 6 GHz

7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The road map of all our labs can be found in our web site also.

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.

Appendix D. Photographs of EUT and Setup