FCC SAR Test Report

Report No.	:	**SA190605C34**
Applicant	:	**Fibocom Wireless Inc.**
Address	:	**5/F,Tower A,Technology Building II,1057 Nanhai Avenue,Shenzhen,China**
Product	:	**LTE Module**
FCC ID	:	**ZMOL860GLD-D1**
Brand	:	**Fibocom**
Model No.	:	**L860-GL**
Standards	:	**FCC 47 CFR Part 2 (2.1093), IEEE C95.1:1992, IEEE Std 1528:2013** **KDB 865664 D01 v01r04, KDB 865664 D02 v01r02** **KDB 248227 D01 v02r02, KDB 447498 D01 v06, KDB 616217 D04 v01r02** **KDB 941225 D01 v03r01, KDB 941225 D05 v02r05**
Sample Received Date	:	**Jun. 05, 2019**
Date of Testing	:	**Jun. 21, 2019 ~ Jul. 14, 2019**
Lab Address	:	**No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.**
Test Location	:	**No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)**

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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FCC Accredited No.: TW0003

Table of Contents

Release Control Record **3**
1. Summary of Maximum SAR Value **4**
2. Description of Equipment Under Test **5**
3. SAR Measurement System **7**
3.1 Definition of Specific Absorption Rate (SAR) 7
3.2 SPEAG DASY52 System 7
3.2.1 Robot 8
3.2.2 Probes 9
3.2.3 Data Acquisition Electronics (DAE) 9
3.2.4 Phantoms 10
3.2.5 Device Holder 11
3.2.6 System Validation Dipoles 11
3.2.7 Tissue Simulating Liquids 12
3.3 SAR System Verification 14
3.4 SAR Measurement Procedure 15
3.4.1 Area & Zoom Scan Procedure 15
3.4.2 Volume Scan Procedure 15
3.4.3 Power Drift Monitoring 16
3.4.4 Spatial Peak SAR Evaluation 16
3.4.5 SAR Averaged Methods 16
4. SAR Measurement Evaluation **17**
4.1 EUT Configuration and Setting 17
4.2 EUT Testing Position 25
4.2.1 Body Exposure Conditions 25
4.3 Tissue Verification 28
4.4 System Validation 28
4.5 System Verification 29
4.6 Maximum Output Power 30
4.6.1 Maximum Target Conducted Power 30
4.6.2 Measured Conducted Power Result 32
4.7 SAR Testing Results 57
4.7.1 SAR Test Reduction Considerations 57
4.7.2 SAR Results for Body Exposure Condition (Test Separation Distance is 0 mm) 59
4.7.3 SAR Measurement Variability 61
4.7.4 Simultaneous Multi-band Transmission Evaluation 62
5. Calibration of Test Equipment **71**
6. Measurement Uncertainty **72**
7. Information of the Testing Laboratories **73**

Appendix A. SAR Plots of System Verification
Appendix B. SAR Plots of SAR Measurement
Appendix C. Calibration Certificate for Probe and Dipole
Appendix D. Photographs of EUT and Setup
Appendix E. WLAN Module Report

Release Control Record

Report No.	Reason for Change	Date Issued
SA190605C34	Initial release	Jul. 30, 2019

1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest SAR-1g Body (W/kg)	
PCB	WCDMA II	0.82	
	WCDMA IV	1.01	
	WCDMA V	0.67	
	LTE 4	0.92	
	LTE 5	0.54	
	LTE 7	1.04	
	LTE 12	0.79	
	LTE 13	0.82	
	LTE 14	0.75	
	LTE 2 & 25	0.83	
	LTE 26	0.63	
	LTE 30	0.86	
	LTE 38	0.89	
	LTE 41	1.07	
	LTE 66	0.69	
		WNC Ant.	HB Ant.
DTS	2.4G WLAN	0.46	0.50
NII	5.3G WLAN	0.49	0.40
	5.6G WLAN	0.48	0.31
	5.8G WLAN	0.48	0.33
DSS	Bluetooth	0.01	0.01

Highest Simultaneous Transmission SAR	Highest SAR-1g Body (W/kg)	
	AX201D2W	
	WNC Ant.	HB Ant.
	1.59	1.57

Note:

1. The SAR criteria **(Head & Body: SAR-1g 1.6 W/kg, and Extremity: SAR-10g 4.0 W/kg)** for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.
2. This device supports both LTE band 25 and band 2. The frequency span of LTE band 25 can completely cover LTE band 2, and they has the same tune-up power. SAR was tested for LTE band 25 only.
3. For SAR test result of WLAN / BT module AX201D2W, please refer to RF Exposure Lab report no.: SAR.20190619. Therefore, the WLAN module worst case of module report was verified in this report. Its verified result and WLAN / BT module report are similar.

2. Description of Equipment Under Test

EUT Type	LTE Module
FCC ID	ZMOL860GLD-D1
Brand Name	Fibocom
Model Name	L860-GL
EUT Configuration	EUT 1: WWAN WNC Antenna + WLAN WNC Antenna EUT 2: WWAN WNC Antenna + WLAN Hong-Bo Antenna
Tx Frequency Bands (Unit: MHz)	WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band IV : 1712.4 ~ 1752.6 WCDMA Band V : 826.4 ~ 846.6 LTE Band 2 : 1850.7 ~ 1909.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 4 : 1710.7 ~ 1754.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 5 : 824.7 ~ 848.3 (BW: 1.4M, 3M, 5M, 10M) LTE Band 7 : 2502.5 ~ 2567.5 (BW: 5M, 10M, 15M, 20M) LTE Band 12 : 699.7 ~ 715.3 (BW: 1.4M, 3M, 5M, 10M) LTE Band 13 : 779.5 ~ 784.5 (BW: 5M, 10M) LTE Band 14 : 790.5 ~ 795.5 (BW: 5M, 10M) LTE Band 17 : 706.5 ~ 713.5 (BW: 5M, 10M) LTE Band 25 : 1850.7 ~ 1914.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 26 : 814.7 ~ 848.3 (BW: 1.4M, 3M, 5M, 10M, 15M) LTE Band 30 : 2307.5 ~ 2312.5 (BW: 5M, 10M) LTE Band 38 : 2572.5 ~ 2617.5 (BW: 5M, 10M, 15M, 20M) LTE Band 41 : 2498.5 ~ 2687.5 (BW: 5M, 10M, 15M, 20M) LTE Band 66 : 1710.7 ~ 1779.3 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M)
Uplink Modulations	WCDMA : QPSK LTE : QPSK, 16QAM, 64QAM
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.6.1 of this report
Antenna Type	PIFA
EUT Stage	Identical Prototype

Note:

1. The WLAN module (Brand: Intel® Wi-Fi 6 AX201, Model: AX201D2W) please refer to RF Exposure Lab report no.: SAR.20190619. Therefore, the WLAN module worst case of module report was verified.
2. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model
Portable Computer	DELL	P115G

3. The WLAN module (Brand: Intel® Wi-Fi 6 AX201, Model: AX201D2W) were installed in the End-product. The specification is listed as below.

WLAN module	
Tx Frequency Bands (Unit: MHz)	WLAN : 2412 ~ 2472, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 Bluetooth : 2402 ~ 2480
Uplink Modulations	802.11b : DSSS 802.11a/g/n/ac/ax : OFDM Bluetooth : GFSK, π/4-DQPSK, 8-DPSK
Antenna Type	WLAN/BT: PIFA Antenna
FCC ID	PD9AX201D2

4. The antenna information is listed as below.

Antenna Type	Manuf.	Parts Number	Antenna Gain (dBi)													
			WCDMA II / LTE 2	WCDMA IV / LTE 4	WCDMA V / LTE 5	LTE 7	LTE 12	LTE 13	LTE 14	LTE 17	LTE 25	LTE 26	LTE 30	LTE 38	LTE 41	LTE 66
PIFA	Wistron Neweb Corporation	Tx1/ Rx1 Antenna: 81ELAR15.G03 (DC33002AG0L)	0.75	0.71	-0.90	-1.99	-4.28	-3.24	-3.11	-4.48	0.75	-0.90	-3.13	-4.00	-1.99	0.71

Antenna Type	Manufacturer	Parts Number	WLAN Antenna Gain			
			WLAN 2.4 GHz	WLAN 5.15~5.35 GHz	WLAN 5.47~5.725 GHz	WLAN 5.725~5.85 GHz
PIFA	Wistron Neweb Corporation	Main Ant.: 81ELAR15.G07 (DC33002AG3L) Aux Ant.: 81EAA915.G11 (DC33002AG4L)	Main: 0.04 Aux.: 0.63	Main: 1.41 Aux.: 2.20	Main: 1.72 Aux.: 2.42	Main: 2.21 Aux.: 2.50
	Hong-Bo	Main Ant.: 260-24281 (DC33002CJ0L) Aux Ant.: 260-24282 (DC33002CJ1L)	Main: -0.45 Aux.: 0.30	Main: 1.21 Aux.: 1.60	Main: 1.58 Aux.: 2.04	Main: 1.92 Aux.: 2.43

5. 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.

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:

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

SAR is expressed in units of Watts per kilogram (W/kg)
SAR measurement can be related to the electrical field in the tissue by

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

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

3.2 SPEAG DASY52 System

DASY52 system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY52 software defined. The DASY52 software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion form the optical into digital electric signal of the DAE and transfers data to the PC.

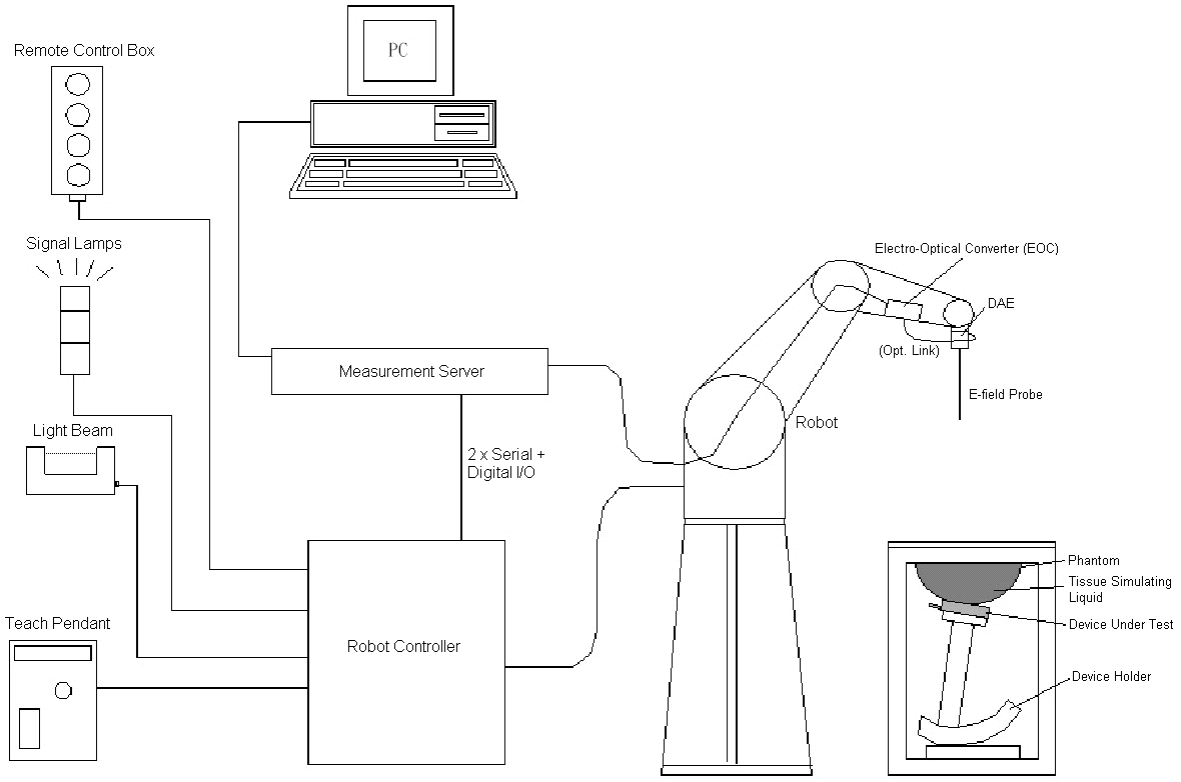


Fig-3.1 SPEAG DASY52 System Setup

3.2.1 Robot

The DASY52 systems use the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version of CS8c from Stäubli is used. The Stäubli robot series have many features that are important for our application:

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

Fig-3.2 SPEAG DASY52 System

3.2.2 Probes

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

Model	EX3DV4
Construction	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 µW/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
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 µW/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 µW/g to 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 16 mm) Tip diameter: 6.8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.7 mm

3.2.3 Data Acquisition Electronics (DAE)

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

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 l/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.

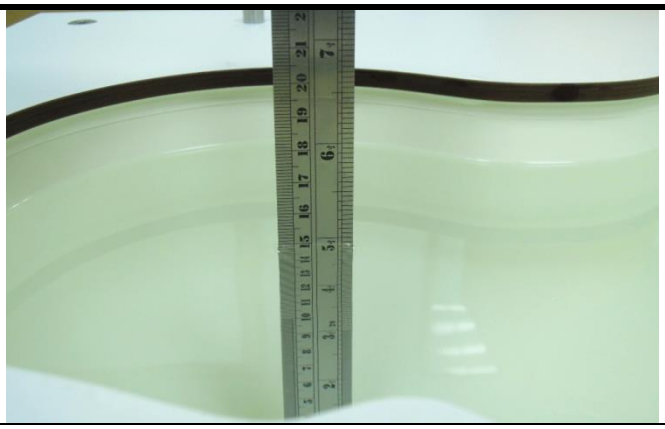
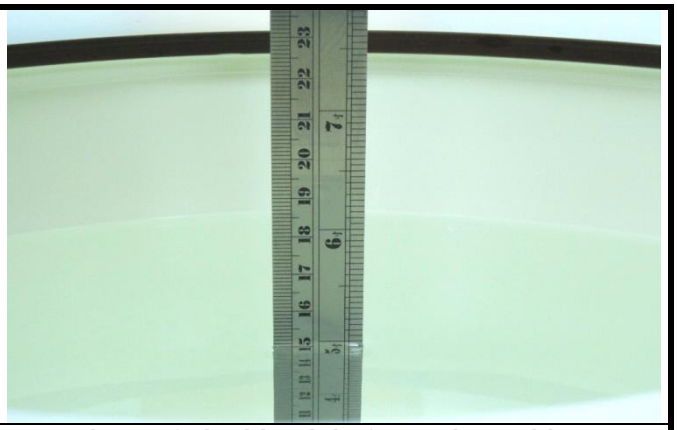
	

Photo of Liquid Height for Head Position	**Photo of Liquid Height for Body Position**

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.

Table-3.1 Targets of Tissue Simulating Liquid

Frequency (MHz)	Target Permittivity	Range of ±5%	Target Conductivity	Range of ±5%
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

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

3.3 SAR System Verification

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

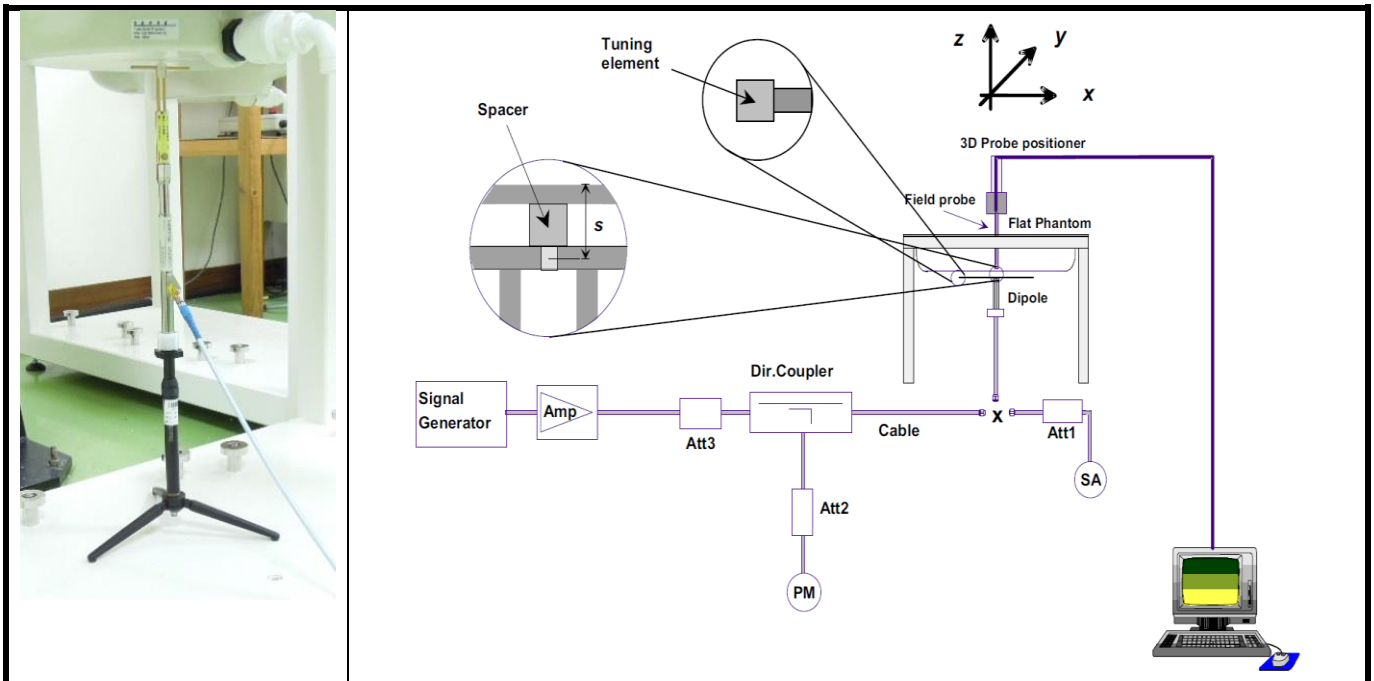


Fig-3.3 System Verification Setup

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

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

3.4 SAR Measurement Procedure

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

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

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

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

3.4.1 Area & Zoom Scan Procedure

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

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

Note:

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of Δx / Δy (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 form the measurement grid to the high-resolution grid
(e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
(f) Calculation of the averaged SAR within masses of 1g and 10g

3.4.5 SAR Averaged Methods

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

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

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 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 Bottom Side											
Distance (mm)	10	11	12	13	14	15	16	17	18	19	20
WCDMA II	17.2	17.0	17.1	17.0	17.3	17.2	24.2	24.4	24.0	24.1	24.1
WCDMA IV	17.5	17.3	17.5	17.2	17.5	17.1	24.5	24.0	24.4	24.1	24.2
WCDMA V	21.1	21.5	21.1	21.1	21.3	21.1	24.2	24.0	24.1	24.3	24.0
LTE 2	17.2	17.3	17.4	17.3	17.1	17.3	23.9	23.6	23.9	23.8	23.7
LTE 4	17.1	17.3	17.1	17.1	17.4	17.1	23.5	23.8	24.0	23.7	24.0
LTE 5	21.0	20.5	20.7	20.7	20.9	20.5	24.6	24.6	24.9	24.9	25.0
LTE 7	16.7	16.6	16.7	16.6	16.6	16.5	23.9	24.0	23.7	23.5	23.6
LTE 12	21.0	21.5	21.2	21.3	21.0	21.1	23.7	23.6	23.5	23.5	23.8
LTE 13	21.5	21.0	21.0	21.0	21.2	21.4	23.5	23.9	23.8	23.8	23.9
LTE 14	21.0	21.5	21.1	21.5	21.0	21.5	23.9	24.0	23.8	23.5	23.6
LTE 17	21.2	21.0	21.2	21.5	21.1	21.5	23.9	23.8	23.8	24.0	24.0
LTE 25	21.3	21.5	21.3	21.3	21.5	21.1	23.6	23.6	23.5	23.6	24.0
LTE 26	21.0	21.0	21.0	20.8	20.5	20.8	25.0	24.9	24.8	24.5	24.8
LTE 30	16.9	16.5	16.6	16.7	16.7	16.6	22.8	22.5	23.0	22.6	22.8
LTE 66	17.3	17.0	17.0	17.4	17.2	17.4	23.5	23.7	23.7	23.9	23.7
LTE 38	17.5	17.6	17.6	17.7	18.0	17.9	23.7	23.9	23.7	23.5	23.7
LTE 41	16.7	16.6	16.9	17.0	16.8	16.8	24.6	25.0	24.6	24.9	24.9

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. The procedure for proximity sensor coverage is not required.

Summary for Proximity Sensor Triggering Test

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 15 mm for EUT Bottom. 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 14 mm for EUT Bottom 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. Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing.

<Considerations Related to WCDMA for Setup and Testing>

Release 5 HSDPA Data Devices

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

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

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{HS} = 30/15 * β_c.
Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and Δ_{NACK} = 30/15 with β_{HS} = 30/15 * β_c, and Δ_{CQI} = 24/15 with β_{HS} = 24/15 * β_c.
Note 3: CM = 1 for β_c/β_d = 12/15, β_{HS}/β_c = 24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only Ues that support HSDPA in release 6 and later releases.
Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the 18ignaled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15.

Release 6 HSUPA Data Devices

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

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{HS} (1)	β_{ec}	β_{ed} (4)(5)	β_{ed} (SF)	β_{ed} (Codes)	CM (2) (dB)	MPR (2)(6) (dB)	AG (5) Index	E-TFCI
1	11/15 (3)	15/15 (3)	64	11/15 (3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed}1: 47/15 β_{ed}2: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{HS} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{HS} = 5/15 * β_c.
Note 2: CM = 1 for β_c/β_d = 12/15, β_{HS}/β_c = 24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the 19ignaled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.
Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

HSPA+ SAR Guidance

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

Sub-test	β_c (3)	β_d	β_{HS} (1)	β_{ec}	β_{ed} (4) (2xSF2)	β_{ed} (4) (2xSF4)	CM (2) (dB)	MPR (2) (dB)	AG (4) Index	E-TFCI (5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed}1: 30/15 β_{ed}2: 30/15	β_{ed}3: 24/15 β_{ed}4: 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{HS} = 30/15 * β_c.
Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.
Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is 19ignaled to use the extrapolation algorithm.

DC-HSDPA SAR Guidance

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

<Considerations Related to LTE for Setup and Testing>

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

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

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

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

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

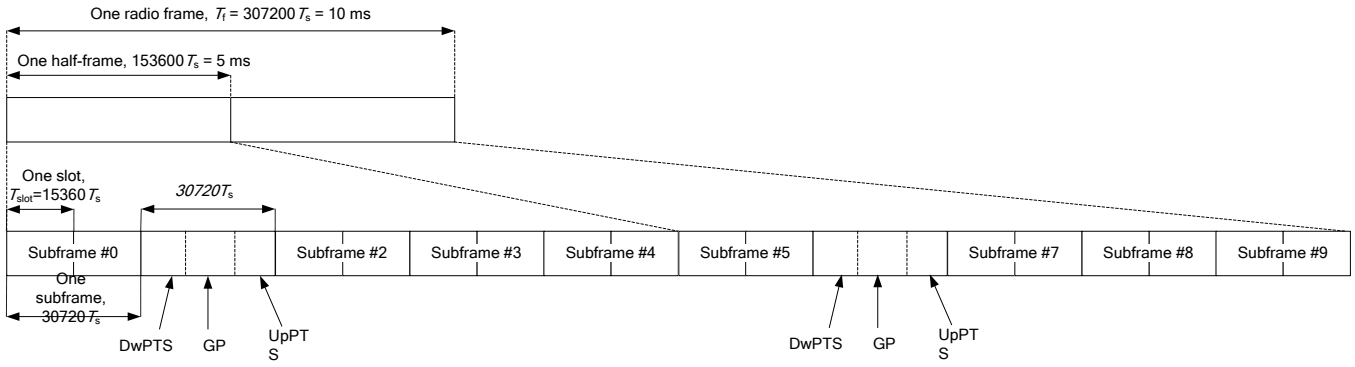
Note: MPR is according to the standard and implemented in the circuit (mandatory).

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

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

TDD-LTE Setup Configurations

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



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

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

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%

<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.

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

For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following.

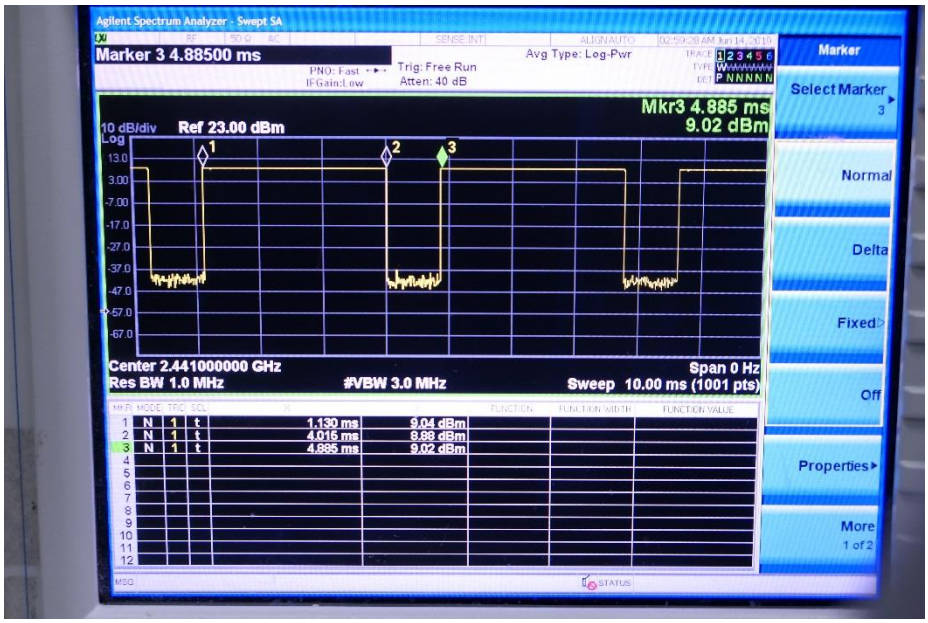
1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition).

2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration.

<Considerations Related to Bluetooth for Setup and Testing>

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

The Bluetooth call box has been used during SAR measurement and the EUT was set to DH5 mode at the maximum output power. Its duty factor was calculated as below and the measured SAR for Bluetooth would be scaled to the 100% transmission duty factor to determine compliance.



Time-domain plot for Bluetooth transmission signal

The duty factor of Bluetooth signal has been calculated as following.

Duty Factor = Pulse Width / Total Period = (4.015-1.130) / (4.885-1.130) = 76.80 %

4.2 EUT Testing Position

4.2.1 Body Exposure Conditions

For laptop PC, according to KDB 16217 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.

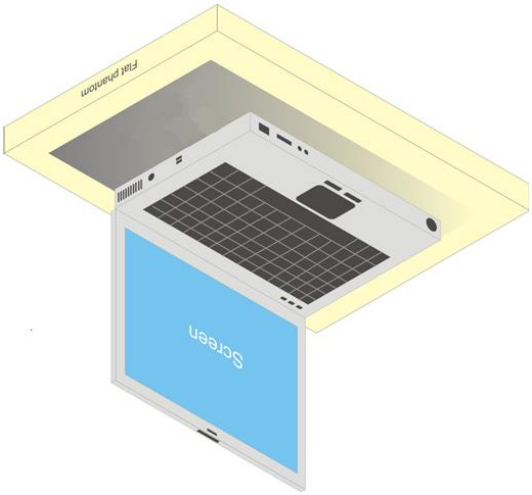
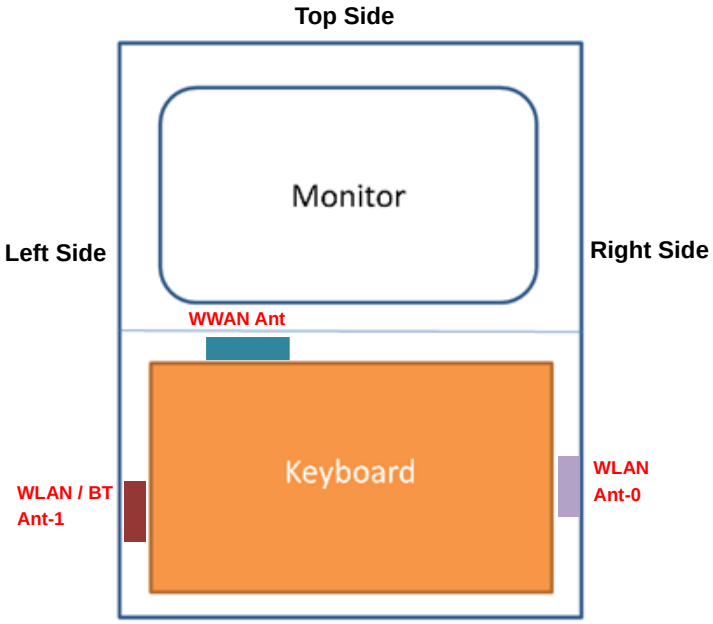


Fig-4.1 Illustration for Laptop Setup

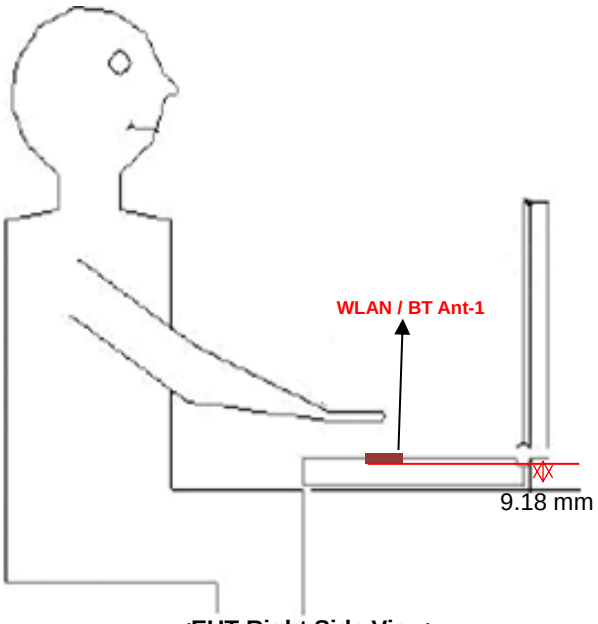
<Antenna Location>



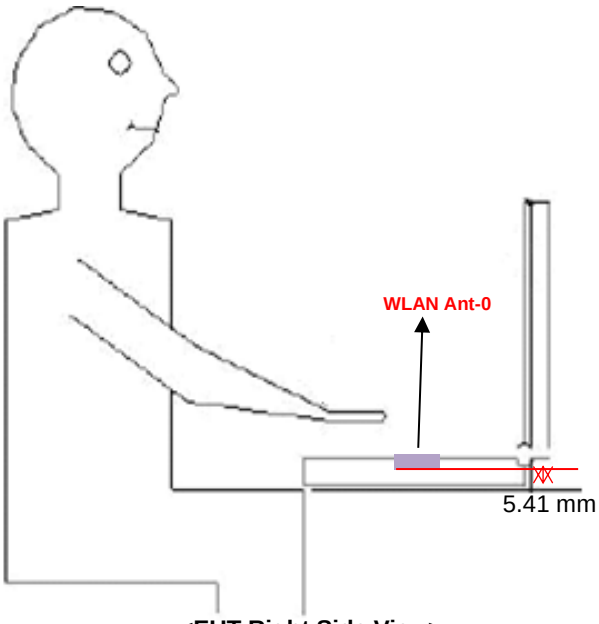
<EUT Front View>

The separation distance for antenna to edge:

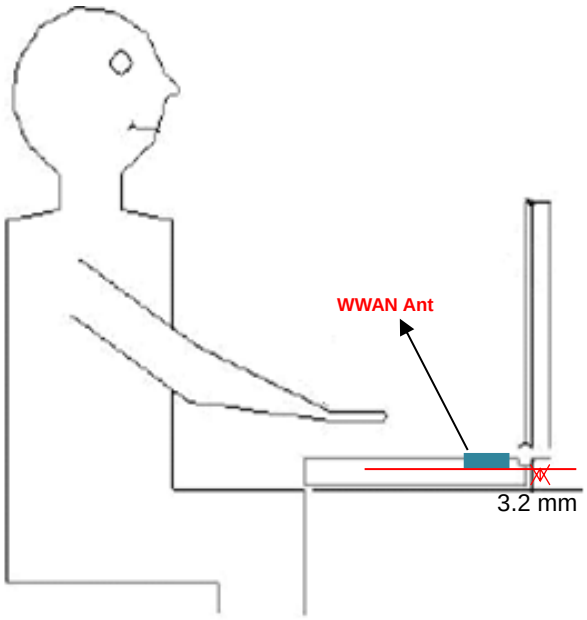
Antenna	To Top Side (mm)	To Bottom Side (mm)	To Left Side (mm)	To Right Side (mm)
WWAN Ant	5	190.73	64.39	167.39
WLAN Ant-0	73.1	103.12	303.4	1
WLAN / BT Ant-1	109.61	65.11	1	305.4



<EUT Right Side View>



<EUT Right Side View>



<EUT Right Side View>

4.3 Tissue Verification

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

Test Date	Frequency (MHz)	Liquid Temp. (℃)	Measured Conductivity (σ)	Measured Permittivity (ε_r)	Target Conductivity (σ)	Target Permittivity (ε_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Jun. 22, 2019	750	23.1	0.891	43.376	0.89	41.9	0.11	3.52
Jun. 21, 2019	835	23.3	0.917	40.848	0.9	41.5	1.89	-1.57
Jun. 21, 2019	1750	23.3	1.32	39.188	1.37	40.1	-3.65	-2.27
Jun. 24, 2019	1750	23.5	1.328	40.136	1.37	40.1	-3.07	0.09
Jun. 21, 2019	1900	23.3	1.451	38.696	1.4	40	3.64	-3.26
Jun. 21, 2019	2300	23.3	1.713	39.441	1.67	39.5	2.57	-0.15
Jul. 12, 2019	2450	23.3	1.876	38.408	1.8	39.2	4.22	-2.02
Jul. 17, 2019	2450	23.3	1.829	38.581	1.8	39.2	1.61	-1.58
Jun. 22, 2019	2600	23.1	2.02	37.839	1.96	39	3.06	-2.98
Jul. 12, 2019	5250	23.3	4.701	36.243	4.71	35.9	-0.19	0.96
Jul. 17, 2019	5250	23.3	4.735	36.962	4.71	35.9	0.53	2.96
Jul. 12, 2019	5600	23.3	5.124	35.657	5.07	35.5	1.07	0.44
Jul. 17, 2019	5600	23.3	5.089	36.492	5.07	35.5	0.37	2.79
Jul. 12, 2019	5750	23.3	5.298	35.4	5.22	35.4	1.49	0.00
Jul. 17, 2019	5750	23.3	5.249	36.271	5.22	35.4	0.56	2.46

Note:

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

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
Jun. 22, 2019	3650	750	0.891	43.376	Pass	Pass	Pass	N/A	N/A	N/A
Jun. 21, 2019	3650	835	0.917	40.848	Pass	Pass	Pass	N/A	N/A	N/A
Jun. 21, 2019	3650	1750	1.32	39.188	Pass	Pass	Pass	N/A	N/A	N/A
Jun. 24, 2019	3971	1750	1.328	40.136	Pass	Pass	Pass	N/A	N/A	N/A
Jun. 21, 2019	3650	1900	1.451	38.696	Pass	Pass	Pass	N/A	N/A	N/A
Jun. 21, 2019	3650	2300	1.713	39.441	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 12, 2019	7375	2450	1.876	38.408	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 17, 2019	7375	2450	1.829	38.581	Pass	Pass	Pass	OFDM	N/A	Pass
Jun. 22, 2019	3650	2600	2.02	37.839	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 12, 2019	7375	5250	4.701	36.243	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 17, 2019	7375	5250	4.735	36.962	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 12, 2019	7375	5600	5.124	35.657	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 17, 2019	7375	5600	5.089	36.492	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 12, 2019	7375	5750	5.298	35.4	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 17, 2019	7375	5750	5.249	36.271	Pass	Pass	Pass	OFDM	N/A	Pass

4.5 System Verification

The measuring result for system verification is tabulated as below.

Test Date	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
Jun. 22, 2019	750	8.15	2.01	8.04	-1.35	1013	3650	861
Jun. 21, 2019	835	9.44	2.19	8.76	-7.20	4d121	3650	861
Jun. 21, 2019	1750	36.90	9.06	36.24	-1.79	1055	3650	861
Jun. 24, 2019	1750	36.90	8.81	35.24	-4.50	1055	3971	1431
Jun. 21, 2019	1900	40.20	10.4	41.60	3.48	5d036	3650	861
Jun. 21, 2019	2300	49.10	12.6	50.40	2.65	1004	3650	861
Jul. 12, 2019	2450	51.50	13.4	53.60	4.08	737	7375	1277
Jul. 17, 2019	2450	51.50	13.1	52.40	1.75	737	7375	1277
Jun. 22, 2019	2600	55.70	13.7	54.80	-1.62	1020	3650	861
Jul. 12, 2019	5250	80.70	8.46	84.60	4.83	1019	7375	1277
Jul. 17, 2019	5250	80.70	8.05	80.50	-0.25	1019	7375	1277
Jul. 12, 2019	5600	85.80	8.47	84.70	-1.28	1019	7375	1277
Jul. 17, 2019	5600	85.80	8.3	83.00	-3.26	1019	7375	1277
Jul. 12, 2019	5750	81.50	8.75	87.50	7.36	1019	7375	1277
Jul. 17, 2019	5750	81.50	8.5	85.00	4.29	1019	7375	1277

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.

4.6 Maximum Output Power

4.6.1 Maximum Target Conducted Power

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

Mode	WCDMA Band II (without Power Reduction)	WCDMA Band II (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24.5	17.5	7.0
HSDPA / HSUPA / DC-HSDPA	24.5	17.5	7.0

Mode	WCDMA Band IV (without Power Reduction)	WCDMA Band IV (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24.5	17.5	7.0
HSDPA / HSUPA / DC-HSDPA	24.5	17.5	7.0

Mode	WCDMA Band V (without Power Reduction)	WCDMA Band V (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	24.5	21.5	3.0
HSDPA / HSUPA / DC-HSDPA	24.5	21.5	3.0

Mode	LTE 2 (without Power Reduction)	LTE 2 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	17.5	6.5

Mode	LTE 4 (without Power Reduction)	LTE 4 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	17.5	6.5

Mode	LTE 5 (without Power Reduction)	LTE 5 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	25.0	21.0	4.0

Mode	LTE 7 (without Power Reduction)	LTE 7 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	17.0	7.0

Mode	LTE 12 (without Power Reduction)	LTE 12 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	21.5	2.5

Mode	LTE 13 (without Power Reduction)	LTE 13 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	21.5	2.5

Mode	LTE 14 (without Power Reduction)	LTE 14 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	21.5	2.5

Mode	LTE 17 (without Power Reduction)	LTE 17 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	21.5	2.5

Mode	LTE 25 (without Power Reduction)	LTE 25 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	17.5	6.5

Mode	LTE 26 (without Power Reduction)	LTE 26 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	25.0	21.0	4.0

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

Mode	LTE 38 (without Power Reduction)	LTE 38 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	18.0	6.0

Mode	LTE 41 (without Power Reduction)	LTE 41 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	25.0	17.0	8.0

Mode	LTE 66 (without Power Reduction)	LTE 66 (with Power Reduction)	Power Reduction (dB)
Maximum Target Power	24.0	17.5	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	23.30	**23.56**	23.45	23.52	**23.65**	23.55	**23.75**	23.24	23.70	-
HSDPA Subtest-1	23.25	23.51	23.40	23.48	23.61	23.51	23.63	23.12	23.58	0
HSDPA Subtest-2	23.00	23.26	23.15	23.23	23.36	23.26	23.50	22.99	23.45	0
HSDPA Subtest-3	22.76	23.02	22.91	22.98	23.11	23.01	23.26	22.75	23.21	0.5
HSDPA Subtest-4	22.50	22.76	22.65	22.74	22.87	22.77	23.01	22.50	22.96	0.5
DC-HSDPA Subtest-1	23.21	23.47	23.36	23.46	23.59	23.49	23.60	23.09	23.55	0
DC-HSDPA Subtest-2	22.96	23.22	23.11	23.21	23.34	23.24	23.47	22.96	23.42	0
DC-HSDPA Subtest-3	22.72	22.98	22.87	22.96	23.09	22.99	23.23	22.72	23.18	0.5
DC-HSDPA Subtest-4	22.46	22.72	22.61	22.72	22.85	22.75	22.98	22.47	22.93	0.5
HSUPA Subtest-1	22.76	23.02	22.91	22.97	23.10	23.00	23.39	22.88	23.34	0
HSUPA Subtest-2	20.98	21.24	21.13	21.19	21.32	21.22	21.51	21.00	21.46	2
HSUPA Subtest-3	21.96	22.22	22.11	22.20	22.33	22.23	22.49	21.98	22.44	1
HSUPA Subtest-4	21.22	21.48	21.37	21.43	21.56	21.46	21.76	21.25	21.71	2
HSUPA Subtest-5	22.94	23.20	23.09	23.17	23.30	23.20	23.51	23.00	23.46	0
EUT with Power Reduction (P-Sensor Triggered)										
RMC 12.2K	17.01	**17.24**	17.18	17.04	**17.08**	17.05	**21.49**	21.46	21.47	-
HSDPA Subtest-1	16.84	17.05	17.02	16.98	17.02	16.99	21.47	21.45	21.46	0
HSDPA Subtest-2	16.57	16.91	16.69	16.77	16.81	16.78	21.26	21.23	21.24	0
HSDPA Subtest-3	16.32	16.68	16.45	16.50	16.54	16.51	20.96	20.92	20.94	0.5
HSDPA Subtest-4	16.08	16.42	16.23	16.20	16.24	16.21	20.78	20.75	20.77	0.5
DC-HSDPA Subtest-1	16.82	17.03	17.00	16.94	16.98	16.95	21.47	21.44	21.45	0
DC-HSDPA Subtest-2	16.55	16.89	16.67	16.73	16.77	16.74	21.24	21.20	21.23	0
DC-HSDPA Subtest-3	16.30	16.66	16.43	16.46	16.50	16.47	20.93	20.89	20.91	0.5
DC-HSDPA Subtest-4	16.06	16.40	16.21	16.16	16.20	16.17	20.75	20.72	20.73	0.5
HSUPA Subtest-1	16.70	16.93	16.87	16.76	16.80	16.77	21.18	21.14	21.15	0
HSUPA Subtest-2	14.63	14.86	14.80	14.66	14.70	14.67	19.22	19.19	19.20	2
HSUPA Subtest-3	15.66	15.89	15.83	15.75	15.79	15.76	20.25	20.19	20.23	1
HSUPA Subtest-4	14.86	15.09	15.03	14.98	15.02	14.99	19.47	19.44	19.45	2
HSUPA Subtest-5	16.62	16.85	16.79	16.76	16.80	16.77	21.25	21.22	21.24	0

LTE Band 2																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100				Channel		18675	18900	19125	
		Frequency (MHz)		1860.0	1880.0	1900.0				Frequency (MHz)		1857.5	1880.0	1902.5	
20M	QPSK	1	0	23.89	23.86	23.75	0	15M	QPSK	1	0	23.82	23.76	23.71	0
		1	50	23.87	23.84	23.73	0			1	37	23.84	23.79	23.64	0
		1	99	23.84	23.81	23.70	0			1	74	23.82	23.73	23.64	0
		50	0	22.83	22.80	22.69	1			36	0	22.78	22.74	22.63	1
		50	25	22.82	22.79	22.68	1			36	19	22.78	22.74	22.60	1
		50	50	22.80	22.77	22.66	1			36	39	22.74	22.73	22.66	1
		100	0	22.88	22.85	22.74	1			75	0	22.79	22.81	22.73	1
	16QAM	1	0	22.85	22.77	22.65	1		16QAM	1	0	22.79	22.81	22.59	1
		1	50	22.78	22.80	22.65	1			1	37	22.73	22.70	22.65	1
		1	99	22.81	22.80	22.64	1			1	74	22.81	22.70	22.54	1
		50	0	21.76	21.76	21.68	2			36	0	21.71	21.69	21.64	2
		50	25	21.72	21.71	21.61	2			36	19	21.70	21.74	21.58	2
		50	50	21.72	21.70	21.61	2			36	39	21.69	21.69	21.56	2
		100	0	21.79	21.80	21.71	2			75	0	21.86	21.79	21.73	2
	64QAM	1	0	21.88	21.84	21.72	2		64QAM	1	0	21.77	21.75	21.72	2
		1	50	21.78	21.78	21.63	2			1	37	21.75	21.77	21.63	2
		1	99	21.81	21.78	21.61	2			1	74	21.71	21.62	21.63	2
		50	0	20.73	20.70	20.67	3			36	0	20.72	20.72	20.65	3
		50	25	20.81	20.71	20.62	3			36	19	20.71	20.66	20.57	3
		50	50	20.70	20.69	20.65	3			36	39	20.72	20.64	20.53	3
		100	0	20.79	20.81	20.65	3			75	0	20.72	20.71	20.73	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18650	18900	19150				Channel		18625	18900	19175	
		Frequency (MHz)		1855.0	1880.0	1905.0				Frequency (MHz)		1852.5	1880.0	1907.5	
10M	QPSK	1	0	23.70	23.64	23.59	0	5M	QPSK	1	0	23.68	23.68	23.54	0
		1	24	23.81	23.65	23.60	0			1	12	23.74	23.68	23.53	0
		1	49	23.75	23.73	23.52	0			1	24	23.73	23.77	23.42	0
		25	0	22.63	22.71	22.54	1			12	0	22.73	22.72	22.54	1
		25	12	22.65	22.69	22.53	1			12	6	22.71	22.66	22.49	1
		25	25	22.69	22.54	22.60	1			12	13	22.66	22.58	22.51	1
		50	0	22.84	22.67	22.68	1			25	0	22.70	22.74	22.51	1
	16QAM	1	0	22.74	22.64	22.59	1		16QAM	1	0	22.72	22.71	22.50	1
		1	24	22.67	22.62	22.58	1			1	12	22.62	22.63	22.47	1
		1	49	22.69	22.59	22.51	1			1	24	22.61	22.63	22.59	1
		25	0	21.70	21.63	21.56	2			12	0	21.74	21.64	21.48	2
		25	12	21.69	21.68	21.49	2			12	6	21.48	21.55	21.53	2
		25	25	21.60	21.61	21.47	2			12	13	21.69	21.51	21.46	2
		50	0	21.75	21.64	21.57	2			25	0	21.77	21.65	21.48	2
	64QAM	1	0	21.70	21.78	21.53	2		64QAM	1	0	21.71	21.76	21.55	2
		1	24	21.65	21.59	21.55	2			1	12	21.79	21.67	21.61	2
		1	49	21.67	21.74	21.47	2			1	24	21.61	21.55	21.54	2
		25	0	20.61	20.70	20.62	3			12	0	20.63	20.56	20.50	3
		25	12	20.59	20.57	20.41	3			12	6	20.75	20.56	20.49	3
		25	25	20.55	20.62	20.47	3			12	13	20.57	20.59	20.57	3
		50	0	20.71	20.70	20.59	3			25	0	20.68	20.75	20.60	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18615	18900	19185				Channel		18607	18900	19193	
		Frequency (MHz)		1851.5	1880.0	1908.5				Frequency (MHz)		1850.7	1880.0	1909.3	
3M	QPSK	1	0	23.72	23.67	23.58	0	1.4M	QPSK	1	0	23.77	23.68	23.54	0
		1	7	23.78	23.77	23.57	0			1	2	23.73	23.65	23.62	0
		1	14	23.71	23.74	23.57	0			1	5	23.78	23.79	23.60	0
		8	0	22.69	22.75	22.60	1			3	0	23.73	23.65	23.54	0
		8	3	22.68	22.69	22.53	1			3	1	23.69	23.66	23.52	0
		8	7	22.72	22.66	22.48	1			3	3	23.73	23.72	23.57	0
		15	0	22.83	22.69	22.49	1			6	0	22.72	22.69	22.64	1
	16QAM	1	0	22.69	22.79	22.55	1		16QAM	1	0	22.65	22.73	22.55	1
		1	7	22.72	22.56	22.60	1			1	2	22.60	22.78	22.46	1
		1	14	22.67	22.73	22.64	1			1	5	22.60	22.68	22.53	1
		8	0	21.75	21.62	21.50	2			3	0	22.59	22.63	22.58	1
		8	3	21.72	21.73	21.61	2			3	1	22.64	22.63	22.52	1
		8	7	21.69	21.59	21.46	2			3	3	22.57	22.72	22.45	1
		15	0	21.68	21.62	21.56	2			6	0	21.77	21.78	21.53	2
	64QAM	1	0	21.72	21.74	21.61	2		64QAM	1	0	21.67	21.74	21.48	2
		1	7	21.68	21.73	21.62	2			1	2	21.60	21.76	21.54	2
		1	14	21.66	21.58	21.58	2			1	5	21.79	21.68	21.59	2
		8	0	20.73	20.59	20.50	3			3	0	21.65	21.54	21.48	2
		8	3	20.81	20.62	20.58	3			3	1	21.65	21.64	21.56	2
		8	7	20.63	20.62	20.57	3			3	3	21.59	21.54	21.48	2
		15	0	20.66	20.63	20.48	3			6	0	20.70	20.66	20.50	3

LTE Band 2															
EUT with Power Reduction (P-Sensor Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100				Channel		18675	18900	19125	
		Frequency (MHz)		1860.0	1880.0	1900.0				Frequency (MHz)		1857.5	1880.0	1902.5	
20M	QPSK	1	0	17.10	17.06	17.01	0	15M	QPSK	1	0	17.05	17.00	16.92	0
		1	50	17.04	17.01	16.95	0			1	37	16.99	17.00	16.87	0
		1	99	17.00	16.96	16.90	0			1	74	17.00	16.91	16.83	0
		50	0	15.97	15.93	15.88	1			36	0	15.95	15.92	15.87	1
		50	25	15.94	15.90	15.85	1			36	19	15.85	15.81	15.80	1
		50	50	15.93	15.89	15.80	1			36	39	15.83	15.85	15.74	1
		100	0	15.99	15.97	15.90	1			75	0	15.92	15.88	15.85	1
	16QAM	1	0	16.44	16.40	16.35	1		16QAM	1	0	16.39	16.36	16.32	1
		1	50	16.32	16.28	16.23	1			1	37	16.24	16.18	16.14	1
		1	99	16.26	16.22	16.17	1			1	74	16.18	16.15	16.15	1
		50	0	15.02	14.96	14.93	2			36	0	14.98	14.88	14.88	2
		50	25	14.96	14.92	14.87	2			36	19	14.90	14.88	14.84	2
		50	50	14.95	14.91	14.87	2			36	39	14.85	14.84	14.87	2
		100	0	15.00	14.95	14.91	2			75	0	14.99	14.91	14.91	2
	64QAM	1	0	15.42	15.38	15.33	2		64QAM	1	0	15.35	15.31	15.29	2
		1	50	15.26	15.20	15.17	2			1	37	15.17	15.15	15.12	2
		1	99	15.20	15.16	15.12	2			1	74	15.10	15.16	15.11	2
		50	0	14.04	14.01	13.95	3			36	0	13.99	14.01	13.86	3
		50	25	13.97	13.93	13.90	3			36	19	13.95	13.86	13.84	3
		50	50	13.94	13.92	13.85	3			36	39	13.93	13.87	13.80	3
		100	0	14.01	13.97	13.92	3			75	0	13.95	13.93	13.89	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18650	18900	19150				Channel		18625	18900	19175	
		Frequency (MHz)		1855.0	1880.0	1905.0				Frequency (MHz)		1852.5	1880.0	1907.5	
10M	QPSK	1	0	16.95	16.95	16.81	0	5M	QPSK	1	0	16.88	16.94	16.75	0
		1	24	16.99	16.85	16.79	0			1	12	17.03	16.91	16.71	0
		1	49	16.85	16.73	16.76	0			1	24	16.86	16.84	16.72	0
		25	0	15.88	15.70	15.70	1			12	0	15.84	15.73	15.59	1
		25	12	15.89	15.81	15.64	1			12	6	15.71	15.76	15.63	1
		25	25	15.81	15.74	15.71	1			12	13	15.72	15.83	15.66	1
		50	0	15.85	15.92	15.80	1			25	0	15.96	15.85	15.78	1
	16QAM	1	0	16.28	16.38	16.34	1		16QAM	1	0	16.31	16.31	16.12	1
		1	24	16.17	16.09	16.01	1			1	12	16.27	16.14	16.21	1
		1	49	16.14	16.09	16.17	1			1	24	16.21	16.08	16.02	1
		25	0	14.95	14.85	14.84	2			12	0	14.94	14.83	14.77	2
		25	12	14.94	14.78	14.68	2			12	6	14.86	14.80	14.67	2
		25	25	14.79	14.74	14.66	2			12	13	14.78	14.82	14.68	2
		50	0	14.90	14.80	14.74	2			25	0	14.85	14.83	14.85	2
	64QAM	1	0	15.35	15.22	15.24	2		64QAM	1	0	15.33	15.27	15.18	2
		1	24	15.06	14.95	14.95	2			1	12	15.14	15.03	15.13	2
		1	49	15.09	15.04	15.08	2			1	24	15.12	15.05	15.02	2
		25	0	13.86	13.85	13.93	3			12	0	13.89	13.95	13.88	3
		25	12	13.95	13.79	13.68	3			12	6	13.90	13.74	13.83	3
		25	25	13.84	13.78	13.70	3			12	13	13.89	13.75	13.78	3
		50	0	13.92	13.82	13.72	3			25	0	13.85	13.87	13.88	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18615	18900	19185				Channel		18607	18900	19193	
		Frequency (MHz)		1851.5	1880.0	1908.5				Frequency (MHz)		1850.7	1880.0	1909.3	
3M	QPSK	1	0	17.00	16.90	16.84	0	1.4M	QPSK	1	0	17.02	16.94	16.82	0
		1	7	16.93	16.92	16.91	0			1	2	16.79	16.88	16.89	0
		1	14	16.95	16.95	16.74	0			1	5	16.92	16.73	16.79	0
		8	0	15.84	15.80	15.67	1			3	0	16.87	16.86	16.71	0
		8	3	15.78	15.78	15.75	1			3	1	16.82	16.75	16.71	0
		8	7	15.84	15.80	15.79	1			3	3	16.78	16.81	16.64	0
		15	0	15.91	15.87	15.77	1			6	0	15.85	15.96	15.79	1
	16QAM	1	0	16.20	16.32	16.12	1		16QAM	1	0	16.31	16.18	16.16	1
		1	7	16.21	16.16	16.05	1			1	2	16.12	16.13	16.09	1
		1	14	16.12	16.15	16.00	1			1	5	16.12	16.06	16.09	1
		8	0	14.98	14.87	14.90	2			3	0	15.87	15.78	15.83	1
		8	3	14.82	14.83	14.72	2			3	1	15.86	15.78	15.80	1
		8	7	14.78	14.80	14.68	2			3	3	15.74	15.74	15.80	1
		15	0	14.91	14.75	14.80	2			6	0	14.94	14.87	14.72	2
	64QAM	1	0	15.36	15.19	15.15	2		64QAM	1	0	15.30	15.28	15.19	2
		1	7	15.09	15.07	14.95	2			1	2	15.22	15.08	15.13	2
		1	14	15.00	15.00	14.99	2			1	5	15.04	14.98	15.11	2
		8	0	13.84	13.86	13.85	3			3	0	14.99	14.80	14.72	2
		8	3	13.84	13.78	13.81	3			3	1	14.78	14.77	14.79	2
		8	7	13.79	13.67	13.78	3			3	3	14.84	14.83	14.72	2
		15	0	13.83	13.79	13.83	3			6	0	13.87	13.95	13.81	3

LTE Band 4																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300				Channel		20025	20175	20325	
		Frequency (MHz)		1720.0	1732.5	1745.0				Frequency (MHz)		1717.5	1732.5	1747.5	
20M	QPSK	1	0	23.94	23.91	23.98	0	15M	QPSK	1	0	23.87	23.88	23.88	0
		1	50	23.92	23.89	23.96	0			1	37	23.88	23.82	23.94	0
		1	99	23.84	23.81	23.88	0			1	74	23.82	23.72	23.83	0
		50	0	22.91	22.88	22.98	1			36	0	22.81	22.83	22.88	1
		50	25	22.97	22.94	22.91	1			36	19	22.94	22.88	22.84	1
		50	50	22.94	22.91	22.95	1			36	39	22.94	22.84	22.92	1
		100	0	22.91	22.88	22.95	1			75	0	22.84	22.88	22.95	1
	16QAM	1	0	22.93	22.83	22.88	1		16QAM	1	0	22.92	22.82	22.89	1
		1	50	22.92	22.79	22.92	1			1	37	22.85	22.78	22.90	1
		1	99	22.76	22.73	22.87	1			1	74	22.72	22.70	22.85	1
		50	0	21.85	21.83	21.89	2			36	0	21.86	21.84	21.91	2
		50	25	21.96	21.91	21.83	2			36	19	21.92	21.85	21.81	2
		50	50	21.85	21.91	21.85	2			36	39	21.75	21.74	21.92	2
		100	0	21.85	21.86	21.89	2			75	0	21.77	21.84	21.80	2
	64QAM	1	0	21.93	21.84	21.90	2		64QAM	1	0	21.85	21.78	21.83	2
		1	50	21.87	21.88	21.95	2			1	37	21.89	21.79	21.79	2
		1	99	21.78	21.78	21.84	2			1	74	21.68	21.76	21.81	2
		50	0	20.86	20.81	20.97	3			36	0	20.90	20.72	20.91	3
		50	25	20.96	20.91	20.85	3			36	19	20.83	20.82	20.80	3
		50	50	20.89	20.83	20.91	3			36	39	20.83	20.75	20.82	3
		100	0	20.81	20.80	20.94	3			75	0	20.77	20.77	20.78	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20000	20175	20350				Channel		19975	20175	20375	
		Frequency (MHz)		1715.0	1732.5	1750.0				Frequency (MHz)		1712.5	1732.5	1752.5	
10M	QPSK	1	0	23.78	23.74	23.85	0	5M	QPSK	1	0	23.81	23.76	23.86	0
		1	24	23.84	23.68	23.78	0			1	12	23.90	23.75	23.76	0
		1	49	23.66	23.72	23.72	0			1	24	23.67	23.70	23.81	0
		25	0	22.78	22.79	22.85	1			12	0	22.88	22.75	22.83	1
		25	12	22.91	22.92	22.74	1			12	6	22.91	22.91	22.75	1
		25	25	22.83	22.84	22.78	1			12	13	22.88	22.80	22.63	1
		50	0	22.80	22.73	22.92	1			25	0	22.73	22.81	22.68	1
	16QAM	1	0	22.72	22.79	22.84	1		16QAM	1	0	22.86	22.76	22.90	1
		1	24	22.76	22.63	22.69	1			1	12	22.74	22.75	22.68	1
		1	49	22.57	22.61	22.74	1			1	24	22.72	22.61	22.67	1
		25	0	21.62	21.66	21.81	2			12	0	21.76	21.57	21.83	2
		25	12	21.81	21.72	21.68	2			12	6	21.73	21.76	21.72	2
		25	25	21.82	21.79	21.78	2			12	13	21.86	21.69	21.77	2
		50	0	21.66	21.70	21.77	2			25	0	21.66	21.76	21.70	2
	64QAM	1	0	21.64	21.72	21.84	2		64QAM	1	0	21.77	21.72	21.83	2
		1	24	21.81	21.67	21.78	2			1	12	21.76	21.73	21.76	2
		1	49	21.60	21.72	21.74	2			1	24	21.71	21.60	21.80	2
		25	0	20.80	20.75	20.81	3			12	0	20.70	20.75	20.89	3
		25	12	20.84	20.78	20.65	3			12	6	20.71	20.73	20.66	3
		25	25	20.80	20.63	20.73	3			12	13	20.79	20.85	20.88	3
		50	0	20.69	20.63	20.75	3			25	0	20.72	20.71	20.70	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		19965	20175	20385				Channel		19957	20175	20393	
		Frequency (MHz)		1711.5	1732.5	1753.5				Frequency (MHz)		1710.7	1732.5	1754.3	
3M	QPSK	1	0	23.81	23.76	23.86	0	1.4M	QPSK	1	0	23.92	23.66	23.84	0
		1	7	23.74	23.69	23.80	0			1	2	23.92	23.79	23.78	0
		1	14	23.75	23.66	23.67	0			1	5	23.78	23.66	23.73	0
		8	0	22.77	22.76	22.82	1			3	0	23.71	23.78	23.84	0
		8	3	22.86	22.83	22.72	1			3	1	23.86	23.83	23.83	0
		8	7	22.77	22.83	22.77	1			3	3	23.87	23.82	23.81	0
		15	0	22.76	22.68	22.77	1			6	0	22.74	22.68	22.90	1
	16QAM	1	0	22.85	22.67	22.82	1		16QAM	1	0	22.85	22.69	22.87	1
		1	7	22.64	22.68	22.74	1			1	2	22.70	22.68	22.79	1
		1	14	22.67	22.69	22.77	1			1	5	22.56	22.68	22.75	1
		8	0	21.68	21.71	21.93	2			3	0	22.70	22.80	22.72	1
		8	3	21.78	21.70	21.76	2			3	1	22.73	22.72	22.84	1
		8	7	21.79	21.68	21.83	2			3	3	22.66	22.78	22.90	1
		15	0	21.89	21.65	21.77	2			6	0	21.76	21.67	21.73	2
	64QAM	1	0	21.65	21.61	21.71	2		64QAM	1	0	21.60	21.63	21.80	2
		1	7	21.68	21.73	21.87	2			1	2	21.82	21.68	21.91	2
		1	14	21.75	21.64	21.64	2			1	5	21.70	21.71	21.65	2
		8	0	20.78	20.62	20.84	3			3	0	21.87	21.57	21.77	2
		8	3	20.84	20.75	20.69	3			3	1	21.96	21.68	21.75	2
		8	7	20.80	20.73	20.75	3			3	3	21.84	21.60	21.73	2
		15	0	20.85	20.62	20.83	3			6	0	20.80	20.73	20.87	3

LTE Band 4																
EUT with Power Reduction (P-Sensor Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300				Channel		20025	20175	20325	
		Frequency (MHz)		1720.0	1732.5	1745.0				Frequency (MHz)		1717.5	1732.5	1747.5	
20M	QPSK	1	0	17.10	17.16	17.33	0	15M	QPSK	1	0	16.94	16.98	17.15	0
		1	50	16.96	17.01	17.18	0			1	37	16.77	16.86	16.93	0
		1	99	17.02	17.10	17.25	0			1	74	16.85	16.88	17.09	0
		50	0	15.90	15.95	16.12	1			36	0	15.73	15.74	15.91	1
		50	25	15.82	15.88	16.05	1			36	19	15.67	15.65	15.87	1
		50	50	15.78	15.87	16.02	1			36	39	15.54	15.62	15.80	1
		100	0	15.86	15.92	16.09	1			75	0	15.68	15.69	15.89	1
	16QAM	1	0	16.22	16.31	16.45	1		16QAM	1	0	16.22	16.22	16.44	1
		1	50	16.23	16.29	16.46	1			1	37	16.18	16.21	16.36	1
		1	99	16.27	16.35	16.47	1			1	74	16.22	16.34	16.44	1
		50	0	14.86	14.91	15.08	2			36	0	14.79	14.85	15.08	2
		50	25	14.74	14.82	14.97	2			36	19	14.71	14.73	14.91	2
		50	50	14.72	14.78	14.95	2			36	39	14.70	14.77	14.95	2
		100	0	14.78	14.81	14.98	2			75	0	14.77	14.75	14.93	2
	64QAM	1	0	15.26	15.32	15.49	2		64QAM	1	0	15.20	15.31	15.46	2
		1	50	15.13	15.22	15.36	2			1	37	15.04	15.14	15.35	2
		1	99	15.25	15.31	15.48	2			1	74	15.19	15.26	15.43	2
		50	0	13.88	14.01	14.09	3			36	0	13.83	13.93	14.03	3
		50	25	13.78	13.84	14.01	3			36	19	13.72	13.80	13.99	3
		50	50	13.68	13.80	13.95	3			36	39	13.61	13.78	13.85	3
		100	0	13.72	13.78	13.95	3			75	0	13.72	13.68	13.90	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20000	20175	20350				Channel		19975	20175	20375	
		Frequency (MHz)		1715.0	1732.5	1750.0				Frequency (MHz)		1712.5	1732.5	1752.5	
10M	QPSK	1	0	16.87	16.82	17.07	0	5M	QPSK	1	0	16.88	16.89	16.89	0
		1	24	16.60	16.82	16.92	0			1	12	16.75	16.68	16.81	0
		1	49	16.78	16.88	16.89	0			1	24	16.70	16.87	16.81	0
		25	0	15.60	15.65	15.73	1			12	0	15.64	15.70	15.75	1
		25	12	15.51	15.56	15.80	1			12	6	15.49	15.68	15.63	1
		25	25	15.49	15.47	15.77	1			12	13	15.47	15.61	15.76	1
		50	0	15.60	15.58	15.74	1			25	0	15.48	15.66	15.58	1
	16QAM	1	0	16.10	16.09	16.30	1		16QAM	1	0	16.20	16.21	16.29	1
		1	24	16.00	16.14	16.40	1			1	12	16.10	16.27	16.35	1
		1	49	16.19	16.18	16.35	1			1	24	16.24	16.20	16.30	1
		25	0	14.74	14.74	14.95	2			12	0	14.72	14.73	15.05	2
		25	12	14.55	14.71	14.90	2			12	6	14.60	14.68	14.84	2
		25	25	14.70	14.60	14.74	2			12	13	14.66	14.70	14.77	2
		50	0	14.68	14.70	14.92	2			25	0	14.58	14.61	14.90	2
	64QAM	1	0	15.23	15.12	15.36	2		64QAM	1	0	15.18	15.27	15.38	2
		1	24	14.99	15.12	15.20	2			1	12	14.95	15.16	15.26	2
		1	49	15.20	15.18	15.38	2			1	24	15.02	15.17	15.29	2
		25	0	13.68	13.99	13.91	3			12	0	13.82	13.86	14.02	3
		25	12	13.66	13.76	13.85	3			12	6	13.75	13.68	13.86	3
		25	25	13.59	13.66	13.77	3			12	13	13.64	13.65	13.89	3
		50	0	13.56	13.75	13.84	3			25	0	13.51	13.62	13.82	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		19965	20175	20385				Channel		19957	20175	20393	
		Frequency (MHz)		1711.5	1732.5	1753.5				Frequency (MHz)		1710.7	1732.5	1754.3	
3M	QPSK	1	0	16.87	16.88	17.06	0	1.4M	QPSK	1	0	16.79	16.86	17.03	0
		1	7	16.76	16.71	16.87	0			1	2	16.58	16.65	16.87	0
		1	14	16.83	16.79	16.95	0			1	5	16.79	16.82	16.97	0
		8	0	15.54	15.66	15.75	1			3	0	16.64	16.67	16.85	0
		8	3	15.58	15.62	15.76	1			3	1	16.47	16.68	16.83	0
		8	7	15.43	15.61	15.65	1			3	3	16.46	16.49	16.75	0
		15	0	15.66	15.61	15.85	1			6	0	15.55	15.68	15.84	1
	16QAM	1	0	15.99	16.28	16.31	1		16QAM	1	0	16.09	16.09	16.29	1
		1	7	16.14	16.08	16.29	1			1	2	16.01	16.24	16.31	1
		1	14	16.06	16.25	16.35	1			1	5	16.18	16.27	16.37	1
		8	0	14.81	14.77	15.02	2			3	0	15.65	15.71	15.86	1
		8	3	14.65	14.76	14.78	2			3	1	15.63	15.60	15.76	1
		8	7	14.57	14.67	14.89	2			3	3	15.66	15.75	15.75	1
		15	0	14.71	14.66	14.89	2			6	0	14.54	14.71	14.93	2
	64QAM	1	0	15.09	15.19	15.27	2		64QAM	1	0	15.12	15.17	15.30	2
		1	7	14.92	15.09	15.18	2			1	2	15.10	15.06	15.25	2
		1	14	15.23	15.18	15.41	2			1	5	15.06	15.21	15.30	2
		8	0	13.80	13.92	13.89	3			3	0	14.73	14.93	14.90	2
		8	3	13.63	13.69	13.86	3			3	1	14.61	14.60	14.91	2
		8	7	13.63	13.67	13.83	3			3	3	14.56	14.78	14.87	2
		15	0	13.59	13.75	13.85	3			6	0	13.65	13.53	13.80	3

LTE Band 5															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20450	20525	20600				Channel		20425	20525	20625	
		Frequency (MHz)		829.0	836.5	844.0				Frequency (MHz)		826.5	836.5	846.5	
10M	QPSK	1	0	23.76	23.81	23.75	0	5M	QPSK	1	0	23.61	23.64	23.53	0
		1	24	23.74	23.79	23.73	0			1	12	23.59	23.61	23.63	0
		1	49	23.72	23.77	23.71	0			1	24	23.51	23.61	23.66	0
		25	0	22.78	22.83	22.77	1			12	0	22.65	22.63	22.48	1
		25	12	22.74	22.79	22.73	1			12	6	22.65	22.67	22.42	1
		25	25	22.76	22.81	22.75	1			12	13	22.54	22.59	22.60	1
		50	0	22.72	22.77	22.71	1			25	0	22.67	22.73	22.46	1
	16QAM	1	0	22.73	22.73	22.69	1		16QAM	1	0	22.64	22.53	22.55	1
		1	24	22.71	22.72	22.65	1			1	12	22.55	22.61	22.57	1
		1	49	22.65	22.68	22.67	1			1	24	22.60	22.64	22.44	1
		25	0	21.76	21.74	21.74	2			12	0	21.51	21.61	21.62	2
		25	12	21.68	21.69	21.65	2			12	6	21.53	21.65	21.58	2
		25	25	21.68	21.77	21.73	2			12	13	21.60	21.74	21.66	2
		50	0	21.70	21.77	21.61	2			25	0	21.46	21.70	21.49	2
	64QAM	1	0	21.70	21.78	21.74	2		64QAM	1	0	21.52	21.57	21.49	2
		1	24	21.71	21.74	21.71	2			1	12	21.60	21.75	21.57	2
		1	49	21.70	21.69	21.69	2			1	24	21.53	21.65	21.48	2
		25	0	20.71	20.82	20.77	3			12	0	20.57	20.61	20.67	3
		25	12	20.70	20.72	20.64	3			12	6	20.51	20.62	20.46	3
		25	25	20.75	20.73	20.71	3			12	13	20.65	20.52	20.64	3
		50	0	20.64	20.77	20.66	3			25	0	20.58	20.61	20.50	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20415	20525	20635				Channel		20407	20525	20643	
		Frequency (MHz)		825.5	836.5	847.5				Frequency (MHz)		824.7	836.5	848.3	
3M	QPSK	1	0	23.54	23.64	23.67	0	1.4M	QPSK	1	0	23.64	23.65	23.53	0
		1	7	23.56	23.63	23.53	0			1	2	23.60	23.71	23.54	0
		1	14	23.61	23.67	23.55	0			1	5	23.63	23.62	23.65	0
		8	0	22.71	22.70	22.62	1			3	0	23.73	23.76	23.59	0
		8	3	22.68	22.74	22.53	1			3	1	23.53	23.64	23.49	0
		8	7	22.67	22.60	22.71	1			3	3	23.70	23.74	23.61	0
		15	0	22.59	22.64	22.56	1			6	0	22.64	22.70	22.49	1
	16QAM	1	0	22.58	22.63	22.58	1		16QAM	1	0	22.54	22.50	22.67	1
		1	7	22.64	22.76	22.58	1			1	2	22.57	22.54	22.52	1
		1	14	22.56	22.47	22.48	1			1	5	22.52	22.59	22.51	1
		8	0	21.55	21.65	21.55	2			3	0	22.60	22.64	22.58	1
		8	3	21.62	21.73	21.54	2			3	1	22.56	22.66	22.47	1
		8	7	21.49	21.61	21.55	2			3	3	22.65	22.51	22.60	1
		15	0	21.48	21.68	21.49	2			6	0	21.61	21.57	21.54	2
	64QAM	1	0	21.58	21.63	21.64	2		64QAM	1	0	21.62	21.57	21.61	2
		1	7	21.55	21.52	21.46	2			1	2	21.67	21.78	21.61	2
		1	14	21.63	21.60	21.60	2			1	5	21.68	21.59	21.52	2
		8	0	20.61	20.78	20.57	3			3	0	21.57	21.66	21.62	2
		8	3	20.49	20.51	20.54	3			3	1	21.61	21.60	21.63	2
		8	7	20.53	20.66	20.70	3			3	3	21.59	21.62	21.59	2
		15	0	20.48	20.53	20.57	3			6	0	20.61	20.65	20.53	3

LTE Band 5															
EUT with Power Reduction (P-Sensor Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20450	20525	20600				Channel		20425	20525	20625	
		Frequency (MHz)		829.0	836.5	844.0				Frequency (MHz)		826.5	836.5	846.5	
10M	QPSK	1	0	20.76	20.81	20.74	0	5M	QPSK	1	0	20.75	20.72	20.70	0
		1	24	20.74	20.79	20.72	0			1	12	20.67	20.73	20.71	0
		1	49	20.72	20.77	20.70	0			1	24	20.64	20.77	20.61	0
		25	0	19.71	19.76	19.69	1			12	0	19.69	19.70	19.68	1
		25	12	19.70	19.75	19.68	1			12	6	19.64	19.72	19.58	1
		25	25	19.63	19.68	19.61	1			12	13	19.60	19.59	19.61	1
		50	0	19.70	19.75	19.68	1			25	0	19.63	19.74	19.60	1
	16QAM	1	0	19.92	19.97	19.90	1		16QAM	1	0	19.86	19.90	19.83	1
		1	24	19.86	19.91	19.84	1			1	12	19.79	19.84	19.76	1
		1	49	19.82	19.87	19.80	1			1	24	19.78	19.79	19.76	1
		25	0	18.80	18.85	18.78	2			12	0	18.75	18.77	18.78	2
		25	12	18.78	18.83	18.76	2			12	6	18.69	18.82	18.76	2
		25	25	18.71	18.76	18.69	2			12	13	18.66	18.69	18.59	2
		50	0	18.73	18.78	18.71	2			25	0	18.73	18.75	18.66	2
	64QAM	1	0	18.92	18.97	18.90	2		64QAM	1	0	18.92	18.91	18.81	2
		1	24	18.89	18.94	18.87	2			1	12	18.86	18.85	18.80	2
		1	49	18.87	18.92	18.85	2			1	24	18.77	18.85	18.79	2
		25	0	17.79	17.84	17.77	3			12	0	17.71	17.76	17.76	3
		25	12	17.77	17.82	17.75	3			12	6	17.67	17.82	17.72	3
		25	25	17.73	17.78	17.71	3			12	13	17.67	17.73	17.69	3
		50	0	17.71	17.76	17.69	3			25	0	17.69	17.76	17.64	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20415	20525	20635				Channel		20407	20525	20643	
		Frequency (MHz)		825.5	836.5	847.5				Frequency (MHz)		824.7	836.5	848.3	
3M	QPSK	1	0	20.59	20.71	20.59	0	1.4M	QPSK	1	0	20.68	20.58	20.62	0
		1	7	20.54	20.59	20.65	0			1	2	20.67	20.57	20.58	0
		1	14	20.63	20.68	20.51	0			1	5	20.56	20.63	20.58	0
		8	0	19.54	19.68	19.61	1			3	0	20.62	20.68	20.53	0
		8	3	19.58	19.60	19.52	1			3	1	20.56	20.69	20.51	0
		8	7	19.47	19.51	19.47	1			3	3	20.45	20.54	20.46	0
		15	0	19.61	19.63	19.57	1			6	0	19.67	19.56	19.56	1
	16QAM	1	0	19.87	19.85	19.74	1		16QAM	1	0	19.75	19.75	19.79	1
		1	7	19.64	19.75	19.74	1			1	2	19.67	19.83	19.72	1
		1	14	19.72	19.74	19.64	1			1	5	19.61	19.78	19.64	1
		8	0	18.74	18.81	18.61	2			3	0	19.69	19.81	19.63	1
		8	3	18.72	18.71	18.70	2			3	1	19.66	19.72	19.57	1
		8	7	18.56	18.59	18.56	2			3	3	19.64	19.63	19.54	1
		15	0	18.71	18.63	18.62	2			6	0	18.59	18.68	18.56	2
	64QAM	1	0	18.76	18.77	18.76	2		64QAM	1	0	18.81	18.81	18.76	2
		1	7	18.77	18.80	18.73	2			1	2	18.79	18.86	18.74	2
		1	14	18.83	18.73	18.79	2			1	5	18.76	18.78	18.80	2
		8	0	17.65	17.68	17.68	3			3	0	18.69	18.76	18.61	2
		8	3	17.67	17.79	17.65	3			3	1	18.57	18.63	18.58	2
		8	7	17.57	17.71	17.58	3			3	3	18.56	18.61	18.57	2
		15	0	17.63	17.61	17.62	3			6	0	17.51	17.65	17.57	3

LTE Band 7															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350				Channel		20825	21100	21375	
		Frequency (MHz)		2510.0	2535.0	2560.0				Frequency (MHz)		2507.5	2535.0	2562.5	
20M	QPSK	1	0	23.73	23.95	23.98	0	15M	QPSK	1	0	23.66	23.85	23.97	0
		1	50	23.70	23.92	23.95	0			1	37	23.64	23.86	23.87	0
		1	99	23.65	23.87	23.90	0			1	74	23.64	23.86	23.82	0
		50	0	22.72	22.94	22.97	1			36	0	22.66	22.92	22.87	1
		50	25	22.70	22.92	22.95	1			36	19	22.70	22.85	22.86	1
		50	50	22.69	22.91	22.94	1			36	39	22.62	22.87	22.92	1
		100	0	22.73	22.95	22.98	1			75	0	22.64	22.87	22.93	1
	16QAM	1	0	22.72	22.91	22.98	1		16QAM	1	0	22.61	22.88	22.88	1
		1	50	22.61	22.83	22.88	1			1	37	22.65	22.77	22.77	1
		1	99	22.60	22.77	22.81	1			1	74	22.58	22.76	22.83	1
		50	0	21.70	21.85	21.88	2			36	0	21.70	21.83	21.81	2
		50	25	21.66	21.91	21.86	2			36	19	21.55	21.76	21.82	2
		50	50	21.62	21.85	21.86	2			36	39	21.51	21.73	21.85	2
		100	0	21.71	21.85	21.93	2			75	0	21.57	21.87	21.90	2
	64QAM	1	0	21.70	21.87	21.97	2		64QAM	1	0	21.61	21.90	21.81	2
		1	50	21.64	21.82	21.88	2			1	37	21.55	21.77	21.89	2
		1	99	21.64	21.78	21.83	2			1	74	21.49	21.77	21.80	2
		50	0	20.67	20.88	20.92	3			36	0	20.68	20.79	20.82	3
		50	25	20.68	20.86	20.91	3			36	19	20.65	20.86	20.77	3
		50	50	20.62	20.91	20.84	3			36	39	20.51	20.90	20.91	3
		100	0	20.68	20.86	20.88	3			75	0	20.61	20.87	20.93	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20800	21100	21400				Channel		20775	21100	21425	
		Frequency (MHz)		2505.0	2535.0	2565.0				Frequency (MHz)		2502.5	2535.0	2567.5	
10M	QPSK	1	0	23.67	23.77	23.90	0	5M	QPSK	1	0	23.59	23.83	23.81	0
		1	24	23.55	23.69	23.79	0			1	12	23.54	23.86	23.69	0
		1	49	23.51	23.81	23.79	0			1	24	23.46	23.76	23.84	0
		25	0	22.68	22.90	22.86	1			12	0	22.57	22.87	22.81	1
		25	12	22.53	22.81	22.75	1			12	6	22.61	22.73	22.70	1
		25	25	22.49	22.89	22.83	1			12	13	22.57	22.68	22.76	1
		50	0	22.59	22.78	22.95	1			25	0	22.55	22.70	22.78	1
	16QAM	1	0	22.62	22.83	22.76	1		16QAM	1	0	22.61	22.81	22.85	1
		1	24	22.45	22.65	22.89	1			1	12	22.57	22.85	22.74	1
		1	49	22.37	22.72	22.74	1			1	24	22.47	22.71	22.73	1
		25	0	21.55	21.64	21.76	2			12	0	21.52	21.76	21.80	2
		25	12	21.58	21.62	21.77	2			12	6	21.47	21.88	21.72	2
		25	25	21.58	21.69	21.67	2			12	13	21.63	21.67	21.87	2
		50	0	21.48	21.74	21.72	2			25	0	21.60	21.75	21.70	2
	64QAM	1	0	21.68	21.91	21.80	2		64QAM	1	0	21.48	21.85	21.79	2
		1	24	21.53	21.60	21.70	2			1	12	21.49	21.82	21.78	2
		1	49	21.49	21.65	21.78	2			1	24	21.55	21.65	21.75	2
		25	0	20.48	20.85	20.92	3			12	0	20.57	20.75	20.77	3
		25	12	20.56	20.68	20.83	3			12	6	20.68	20.82	20.80	3
		25	25	20.44	20.76	20.71	3			12	13	20.56	20.69	20.80	3
		50	0	20.51	20.74	20.87	3			25	0	20.52	20.82	20.84	3

LTE Band 7															
EUT with Power Reduction (P-Sensor Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350				Channel		20825	21100	21375	
		Frequency (MHz)		2510.0	2535.0	2560.0				Frequency (MHz)		2507.5	2535.0	2562.5	
20M	QPSK	1	0	16.86	16.97	16.98	0	15M	QPSK	1	0	16.78	16.87	16.90	0
		1	50	16.78	16.89	16.90	0			1	37	16.74	16.87	16.85	0
		1	99	16.75	16.86	16.87	0			1	74	16.70	16.82	16.77	0
		50	0	15.86	15.97	15.98	1			36	0	15.81	15.89	15.98	1
		50	25	15.82	15.93	15.94	1			36	19	15.78	15.93	15.91	1
		50	50	15.72	15.83	15.84	1			36	39	15.66	15.80	15.78	1
		100	0	15.85	15.96	15.97	1			75	0	15.84	15.94	15.88	1
	16QAM	1	0	15.80	15.91	15.92	1		16QAM	1	0	15.70	15.82	15.84	1
		1	50	15.72	15.83	15.84	1			1	37	15.66	15.78	15.74	1
		1	99	15.70	15.81	15.82	1			1	74	15.63	15.76	15.76	1
		50	0	14.85	14.96	14.97	2			36	0	14.81	14.87	14.88	2
		50	25	14.84	14.95	14.96	2			36	19	14.78	14.90	14.87	2
		50	50	14.74	14.85	14.86	2			36	39	14.67	14.83	14.77	2
		100	0	14.85	14.96	14.97	2			75	0	14.81	14.96	14.91	2
	64QAM	1	0	14.83	14.94	14.95	2		64QAM	1	0	14.74	14.90	14.93	2
		1	50	14.76	14.87	14.88	2			1	37	14.66	14.78	14.85	2
		1	99	14.73	14.84	14.85	2			1	74	14.63	14.78	14.84	2
		50	0	13.82	13.93	13.94	3			36	0	13.81	13.89	13.89	3
		50	25	13.80	13.91	13.92	3			36	19	13.72	13.86	13.90	3
		50	50	13.73	13.84	13.85	3			36	39	13.73	13.74	13.77	3
		100	0	13.82	13.93	13.94	3			75	0	13.81	13.86	13.85	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20800	21100	21400				Channel		20775	21100	21425	
		Frequency (MHz)		2505.0	2535.0	2565.0				Frequency (MHz)		2502.5	2535.0	2567.5	
10M	QPSK	1	0	16.80	16.86	16.75	0	5M	QPSK	1	0	16.76	16.85	16.77	0
		1	24	16.65	16.71	16.83	0			1	12	16.71	16.69	16.65	0
		1	49	16.66	16.84	16.62	0			1	24	16.61	16.79	16.70	0
		25	0	15.66	15.86	15.83	1			12	0	15.75	15.75	15.62	1
		25	12	15.74	15.88	15.91	1			12	6	15.67	15.78	15.80	1
		25	25	15.64	15.70	15.70	1			12	13	15.49	15.70	15.64	1
		50	0	15.61	15.85	15.82	1			25	0	15.71	15.81	15.64	1
	16QAM	1	0	15.67	15.72	15.68	1		16QAM	1	0	15.76	15.82	15.68	1
		1	24	15.52	15.71	15.71	1			1	12	15.67	15.64	15.72	1
		1	49	15.59	15.72	15.72	1			1	24	15.52	15.71	15.69	1
		25	0	14.70	14.75	14.87	2			12	0	14.74	14.90	14.87	2
		25	12	14.71	14.77	14.88	2			12	6	14.70	14.80	14.74	2
		25	25	14.65	14.77	14.75	2			12	13	14.69	14.67	14.77	2
		50	0	14.79	14.87	14.81	2			25	0	14.68	14.87	14.78	2
	64QAM	1	0	14.68	14.78	14.80	2		64QAM	1	0	14.67	14.86	14.91	2
		1	24	14.69	14.79	14.67	2			1	12	14.67	14.72	14.69	2
		1	49	14.58	14.63	14.64	2			1	24	14.54	14.69	14.74	2
		25	0	13.71	13.78	13.82	3			12	0	13.71	13.92	13.85	3
		25	12	13.69	13.79	13.81	3			12	6	13.71	13.83	13.80	3
		25	25	13.62	13.64	13.75	3			12	13	13.57	13.82	13.71	3
		50	0	13.70	13.86	13.91	3			25	0	13.68	13.71	13.76	3

LTE Band 12															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23060	23095	23130				Channel		23035	23095	23155	
		Frequency (MHz)		704.0	707.5	711.0				Frequency (MHz)		701.5	707.5	713.5	
10M	QPSK	1	0	23.84	23.89	23.81	0	5M	QPSK	1	0	23.69	23.70	23.66	0
		1	24	23.70	23.75	23.67	0			1	12	23.60	23.72	23.38	0
		1	49	23.69	23.74	23.66	0			1	24	23.59	23.63	23.44	0
		25	0	22.66	22.71	22.63	1			12	0	22.63	22.71	22.53	1
		25	12	22.65	22.70	22.62	1			12	6	22.47	22.67	22.40	1
		25	25	22.60	22.65	22.57	1			12	13	22.47	22.52	22.30	1
		50	0	22.64	22.69	22.61	1			25	0	22.46	22.64	22.33	1
	16QAM	1	0	22.80	22.80	22.72	1		16QAM	1	0	22.49	22.67	22.60	1
		1	24	22.67	22.65	22.59	1			1	12	22.50	22.67	22.57	1
		1	49	22.68	22.72	22.56	1			1	24	22.62	22.58	22.56	1
		25	0	21.58	21.63	21.53	2			12	0	21.55	21.60	21.34	2
		25	12	21.65	21.63	21.62	2			12	6	21.49	21.46	21.58	2
		25	25	21.53	21.55	21.57	2			12	13	21.54	21.45	21.44	2
		50	0	21.60	21.64	21.53	2			25	0	21.50	21.39	21.43	2
	64QAM	1	0	21.74	21.79	21.74	2		64QAM	1	0	21.76	21.65	21.73	2
		1	24	21.69	21.72	21.57	2			1	12	21.53	21.63	21.43	2
		1	49	21.60	21.74	21.61	2			1	24	21.46	21.57	21.51	2
		25	0	20.56	20.62	20.63	3			12	0	20.49	20.48	20.39	3
		25	12	20.59	20.61	20.52	3			12	6	20.43	20.61	20.58	3
		25	25	20.54	20.62	20.47	3			12	13	20.42	20.43	20.37	3
		50	0	20.59	20.61	20.58	3			25	0	20.55	20.45	20.40	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23025	23095	23165				Channel		23017	23095	23173	
		Frequency (MHz)		700.5	707.5	714.5				Frequency (MHz)		699.7	707.5	715.3	
3M	QPSK	1	0	23.62	23.73	23.74	0	1.4M	QPSK	1	0	23.76	23.82	23.74	0
		1	7	23.67	23.51	23.56	0			1	2	23.48	23.56	23.49	0
		1	14	23.51	23.60	23.56	0			1	5	23.58	23.49	23.55	0
		8	0	22.51	22.59	22.52	1			3	0	23.51	23.54	23.45	0
		8	3	22.49	22.60	22.38	1			3	1	23.54	23.61	23.55	0
		8	7	22.49	22.47	22.48	1			3	3	23.41	23.50	23.49	0
		15	0	22.46	22.57	22.55	1			6	0	22.58	22.62	22.46	1
	16QAM	1	0	22.71	22.64	22.68	1		16QAM	1	0	22.63	22.71	22.70	1
		1	7	22.50	22.57	22.48	1			1	2	22.58	22.63	22.44	1
		1	14	22.51	22.63	22.40	1			1	5	22.52	22.45	22.55	1
		8	0	21.49	21.58	21.43	2			3	0	22.47	22.64	22.53	1
		8	3	21.53	21.54	21.43	2			3	1	22.47	22.51	22.38	1
		8	7	21.34	21.42	21.32	2			3	3	22.52	22.43	22.39	1
		15	0	21.50	21.53	21.49	2			6	0	21.45	21.65	21.35	2
	64QAM	1	0	21.65	21.76	21.68	2		64QAM	1	0	21.69	21.74	21.60	2
		1	7	21.50	21.41	21.56	2			1	2	21.47	21.63	21.49	2
		1	14	21.53	21.53	21.42	2			1	5	21.45	21.46	21.48	2
		8	0	20.50	20.50	20.43	3			3	0	21.56	21.56	21.49	2
		8	3	20.55	20.56	20.35	3			3	1	21.41	21.52	21.52	2
		8	7	20.45	20.39	20.37	3			3	3	21.41	21.50	21.37	2
		15	0	20.34	20.48	20.49	3			6	0	20.51	20.46	20.42	3

LTE Band 12															
EUT with Power Reduction (P-Sensor Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23060	23095	23130				Channel		23035	23095	23155	
		Frequency (MHz)		704.0	707.5	711.0				Frequency (MHz)		701.5	707.5	713.5	
10M	QPSK	1	0	21.22	21.34	21.31	0	5M	QPSK	1	0	21.12	21.26	21.28	0
		1	24	21.10	21.22	21.19	0			1	12	21.08	21.21	21.15	0
		1	49	21.08	21.20	21.17	0			1	24	21.01	21.17	21.11	0
		25	0	20.08	20.20	20.17	1			12	0	19.98	20.10	20.11	1
		25	12	20.07	20.19	20.16	1			12	6	19.97	20.13	20.07	1
		25	25	20.03	20.15	20.12	1			12	13	19.93	20.13	20.07	1
		50	0	20.07	20.19	20.16	1			25	0	19.97	20.13	20.07	1
	16QAM	1	0	20.36	20.48	20.45	1		16QAM	1	0	20.35	20.45	20.44	1
		1	24	20.32	20.44	20.41	1			1	12	20.29	20.39	20.34	1
		1	49	20.29	20.41	20.38	1			1	24	20.24	20.34	20.29	1
		25	0	19.14	19.26	19.23	2			12	0	19.05	19.26	19.23	2
		25	12	19.16	19.28	19.25	2			12	6	19.08	19.24	19.21	2
		25	25	19.12	19.24	19.21	2			12	13	19.02	19.16	19.13	2
		50	0	19.09	19.21	19.18	2			25	0	19.09	19.18	19.09	2
	64QAM	1	0	19.37	19.49	19.46	2		64QAM	1	0	19.27	19.44	19.36	2
		1	24	19.36	19.48	19.45	2			1	12	19.34	19.48	19.35	2
		1	49	19.24	19.36	19.33	2			1	24	19.17	19.34	19.29	2
		25	0	18.12	18.24	18.21	3			12	0	18.04	18.18	18.17	3
		25	12	18.15	18.27	18.24	3			12	6	18.12	18.27	18.22	3
		25	25	18.11	18.23	18.20	3			12	13	18.09	18.18	18.20	3
		50	0	18.09	18.21	18.18	3			25	0	18.04	18.14	18.15	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23025	23095	23165				Channel		23017	23095	23173	
		Frequency (MHz)		700.5	707.5	714.5				Frequency (MHz)		699.7	707.5	715.3	
3M	QPSK	1	0	21.08	21.23	21.13	0	1.4M	QPSK	1	0	21.19	21.26	21.26	0
		1	7	21.06	21.00	21.08	0			1	2	20.97	21.05	21.06	0
		1	14	20.88	21.04	20.99	0			1	5	20.96	21.14	21.00	0
		8	0	19.91	19.98	19.96	1			3	0	20.89	21.12	21.03	0
		8	3	19.96	20.03	20.04	1			3	1	20.86	20.98	21.05	0
		8	7	19.79	20.02	19.92	1			3	3	20.88	20.99	20.94	0
		15	0	19.96	20.12	19.93	1			6	0	20.03	20.09	20.09	1
	16QAM	1	0	20.18	20.32	20.34	1		16QAM	1	0	20.25	20.40	20.34	1
		1	7	20.16	20.34	20.38	1			1	2	20.17	20.28	20.33	1
		1	14	20.26	20.29	20.21	1			1	5	20.24	20.29	20.32	1
		8	0	19.09	19.15	19.07	2			3	0	20.10	20.15	20.00	1
		8	3	19.12	19.14	19.20	2			3	1	20.11	20.16	20.15	1
		8	7	18.95	19.18	19.16	2			3	3	20.04	20.07	20.11	1
		15	0	18.95	19.03	18.97	2			6	0	18.85	19.09	19.09	2
	64QAM	1	0	19.35	19.36	19.37	2		64QAM	1	0	19.26	19.37	19.31	2
		1	7	19.20	19.31	19.41	2			1	2	19.25	19.37	19.31	2
		1	14	19.06	19.19	19.20	2			1	5	19.06	19.30	19.23	2
		8	0	17.90	18.04	18.15	3			3	0	18.91	19.12	19.02	2
		8	3	18.00	18.12	18.04	3			3	1	19.05	19.14	19.14	2
		8	7	18.02	18.17	18.08	3			3	3	18.87	19.07	19.13	2
		15	0	17.89	18.16	18.06	3			6	0	17.92	18.11	18.05	3

LTE Band 13																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			23230					Channel		23205	23230	23225	
		Frequency (MHz)			782.0					Frequency (MHz)		779.5	782.0	784.5	
10M	QPSK	1	0		23.62		0	5M	QPSK	1	0	23.49	23.55	23.61	0
		1	24		23.58		0			1	12	23.46	23.52	23.60	0
		1	49		23.54		0			1	24	23.44	23.50	23.58	0
		25	0		22.77		1			12	0	22.45	22.51	22.59	1
		25	12		22.69		1			12	6	22.40	22.46	22.54	1
		25	25		22.64		1			12	13	22.44	22.50	22.58	1
		50	0		22.72		1			25	0	22.52	22.58	22.66	1
	16QAM	1	0		22.55		1		16QAM	1	0	22.39	22.51	22.52	1
		1	24		22.56		1			1	12	22.36	22.50	22.60	1
		1	49		22.44		1			1	24	22.36	22.46	22.58	1
		25	0		21.69		2			12	0	21.37	21.45	21.53	2
		25	12		21.65		2			12	6	21.36	21.41	21.52	2
		25	25		21.61		2			12	13	21.43	21.50	21.50	2
		50	0		21.65		2			25	0	21.45	21.52	21.60	2
	64QAM	1	0		21.56		2		64QAM	1	0	21.42	21.47	21.54	2
		1	24		21.54		2			1	12	21.43	21.52	21.56	2
		1	49		21.45		2			1	24	21.42	21.48	21.57	2
		25	0		20.71		3			12	0	20.35	20.42	20.51	3
		25	12		20.63		3			12	6	20.37	20.44	20.48	3
		25	25		20.60		3			12	13	20.40	20.42	20.57	3
		50	0		20.63		3			25	0	20.42	20.48	20.57	3

LTE Band 13																
EUT with Power Reduction (P-Sensor Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			23230					Channel		23205	23230	23225	
		Frequency (MHz)			782.0					Frequency (MHz)		779.5	782.0	784.5	
10M	QPSK	1	0		21.12		0	5M	QPSK	1	0	21.04	21.11	21.10	0
		1	24		21.10		0			1	12	20.99	21.06	21.05	0
		1	49		21.11		0			1	24	20.96	21.03	21.02	0
		25	0		20.18		1			12	0	19.94	20.01	20.00	1
		25	12		20.15		1			12	6	19.89	19.96	19.95	1
		25	25		20.14		1			12	13	19.89	19.96	19.95	1
		50	0		20.17		1			25	0	19.95	20.02	20.01	1
	16QAM	1	0		20.12		1		16QAM	1	0	20.04	20.06	20.02	1
		1	24		20.04		1			1	12	19.93	20.06	20.04	1
		1	49		20.06		1			1	24	19.86	19.99	19.92	1
		25	0		19.16		2			12	0	18.89	19.01	18.98	2
		25	12		19.09		2			12	6	18.83	18.95	18.93	2
		25	25		19.14		2			12	13	18.82	18.91	18.86	2
		50	0		19.13		2			25	0	18.85	18.98	19.00	2
	64QAM	1	0		19.03		2		64QAM	1	0	18.94	19.06	19.09	2
		1	24		19.07		2			1	12	18.99	19.05	19.01	2
		1	49		19.01		2			1	24	18.88	18.93	18.94	2
		25	0		18.15		3			12	0	17.86	18.00	17.94	3
		25	12		18.05		3			12	6	17.89	17.96	17.93	3
		25	25		18.11		3			12	13	17.88	17.92	17.85	3
		50	0		18.16		3			25	0	17.93	17.95	17.97	3

LTE Band 14																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			23330					Channel		23305	23330	23355	
		Frequency (MHz)			793.0					Frequency (MHz)		790.5	793.0	795.5	
10M	QPSK	1	0		23.71		0	5M	QPSK	1	0	23.61	23.58	23.67	0
		1	24		23.70		0			1	12	23.64	23.61	23.70	0
		1	49		23.75		0			1	24	23.69	23.66	23.73	0
		25	0		22.76		1			12	0	22.62	22.59	22.68	1
		25	12		22.84		1			12	6	22.67	22.64	22.73	1
		25	25		22.87		1			12	13	22.71	22.68	22.77	1
		50	0		22.83		1			25	0	22.74	22.71	22.80	1
	16QAM	1	0		22.66		1		16QAM	1	0	22.54	22.52	22.67	1
		1	24		22.70		1			1	12	22.62	22.55	22.70	1
		1	49		22.66		1			1	24	22.61	22.65	22.65	1
		25	0		21.66		2			12	0	21.59	21.50	21.68	2
		25	12		21.83		2			12	6	21.64	21.59	21.63	2
		25	25		21.81		2			12	13	21.63	21.68	21.75	2
		50	0		21.76		2			25	0	21.67	21.61	21.75	2
	64QAM	1	0		21.71		2		64QAM	1	0	21.56	21.50	21.57	2
		1	24		21.70		2			1	12	21.55	21.59	21.63	2
		1	49		21.67		2			1	24	21.67	21.66	21.70	2
		25	0		20.71		3			12	0	20.58	20.56	20.64	3
		25	12		20.81		3			12	6	20.62	20.60	20.69	3
		25	25		20.87		3			12	13	20.62	20.68	20.74	3
		50	0		20.79		3			25	0	20.66	20.69	20.79	3

LTE Band 14																
EUT with Power Reduction (P-Sensor Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			23330					Channel		23305	23330	23355	
		Frequency (MHz)			793.0					Frequency (MHz)		790.5	793.0	795.5	
10M	QPSK	1	0		21.27		0	5M	QPSK	1	0	21.17	21.14	21.22	0
		1	24		21.25		0			1	12	21.22	21.19	21.27	0
		1	49		21.29		0			1	24	21.24	21.21	21.27	0
		25	0		20.23		0			12	0	20.07	20.04	20.12	1
		25	12		20.26		0			12	6	20.16	20.13	20.21	1
		25	25		20.27		0			12	13	20.06	20.03	20.11	1
		50	0		20.28		0			25	0	20.17	20.14	20.22	1
	16QAM	1	0		20.19		0		16QAM	1	0	20.07	20.11	20.21	1
		1	24		20.24		0			1	12	20.22	20.10	20.27	1
		1	49		20.27		0			1	24	20.14	20.19	20.22	1
		25	0		19.21		0			12	0	18.97	19.01	19.09	2
		25	12		19.20		0			12	6	19.13	19.10	19.11	2
		25	25		19.18		0			12	13	19.01	18.98	19.07	2
		50	0		19.24		0			25	0	19.14	19.09	19.20	2
	64QAM	1	0		19.19		0		64QAM	1	0	19.10	19.11	19.16	2
		1	24		19.21		0			1	12	19.20	19.10	19.27	2
		1	49		19.29		0			1	24	19.19	19.12	19.21	2
		25	0		18.22		0			12	0	17.98	17.98	18.05	3
		25	12		18.19		0			12	6	18.06	18.10	18.16	3
		25	25		18.18		0			12	13	18.06	17.97	18.10	3
		50	0		18.20		0			25	0	18.10	18.06	18.21	3

LTE Band 17																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23780	23790	23800				Channel		23755	23790	23825	
		Frequency (MHz)		709.0	710.0	711.0				Frequency (MHz)		706.5	710.0	713.5	
10M	QPSK	1	0	23.83	23.76	23.81	0	5M	QPSK	1	0	23.76	23.72	23.73	0
		1	24	23.72	23.65	23.70	0			1	12	23.62	23.60	23.64	0
		1	49	23.75	23.68	23.73	0			1	24	23.68	23.62	23.67	0
		25	0	22.82	22.75	22.80	1			12	0	22.77	22.75	22.77	1
		25	12	22.77	22.70	22.75	1			12	6	22.75	22.63	22.75	1
		25	25	22.76	22.69	22.74	1			12	13	22.70	22.64	22.68	1
		50	0	22.78	22.71	22.76	1			25	0	22.75	22.65	22.68	1
	16QAM	1	0	22.80	22.66	22.77	1		16QAM	1	0	22.75	22.60	22.77	1
		1	24	22.67	22.60	22.67	1			1	12	22.60	22.52	22.54	1
		1	49	22.70	22.65	22.65	1			1	24	22.64	22.61	22.58	1
		25	0	21.79	21.70	21.79	2			12	0	21.64	21.63	21.75	2
		25	12	21.70	21.64	21.69	2			12	6	21.66	21.53	21.69	2
		25	25	21.70	21.65	21.66	2			12	13	21.64	21.53	21.70	2
		50	0	21.69	21.71	21.70	2			25	0	21.64	21.63	21.64	2
	64QAM	1	0	21.82	21.70	21.73	2		64QAM	1	0	21.77	21.68	21.68	2
		1	24	21.66	21.57	21.70	2			1	12	21.64	21.61	21.60	2
		1	49	21.67	21.64	21.67	2			1	24	21.67	21.58	21.72	2
		25	0	20.79	20.67	20.73	3			12	0	20.72	20.65	20.74	3
		25	12	20.67	20.66	20.71	3			12	6	20.68	20.61	20.74	3
		25	25	20.74	20.63	20.73	3			12	13	20.59	20.60	20.67	3
		50	0	20.72	20.71	20.76	3			25	0	20.75	20.56	20.71	3

LTE Band 17																
EUT with Power Reduction (P-Sensor Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23780	23790	23800				Channel		23755	23790	23825	
		Frequency (MHz)		709.0	710.0	711.0				Frequency (MHz)		706.5	710.0	713.5	
10M	QPSK	1	0	21.34	21.27	21.32	0	5M	QPSK	1	0	21.29	21.24	21.24	0
		1	24	21.27	21.20	21.25	0			1	12	21.20	21.16	21.21	0
		1	49	21.30	21.23	21.28	0			1	24	21.23	21.21	21.20	0
		25	0	20.29	20.22	20.27	1			12	0	20.21	20.16	20.25	1
		25	12	20.25	20.18	20.23	1			12	6	20.23	20.14	20.16	1
		25	25	20.26	20.19	20.24	1			12	13	20.24	20.13	20.19	1
		50	0	20.27	20.20	20.25	1			25	0	20.21	20.11	20.18	1
	16QAM	1	0	20.46	20.49	20.44	1		16QAM	1	0	20.41	20.47	20.43	1
		1	24	20.47	20.40	20.45	1			1	12	20.42	20.38	20.36	1
		1	49	20.38	20.31	20.36	1			1	24	20.30	20.28	20.28	1
		25	0	19.42	19.35	19.40	2			12	0	19.39	19.33	19.35	2
		25	12	19.38	19.31	19.36	2			12	6	19.28	19.31	19.27	2
		25	25	19.36	19.29	19.34	2			12	13	19.27	19.21	19.26	2
		50	0	19.29	19.22	19.27	2			25	0	19.25	19.12	19.27	2
	64QAM	1	0	19.44	19.47	19.42	2		64QAM	1	0	19.36	19.40	19.39	2
		1	24	19.49	19.42	19.47	2			1	12	19.42	19.33	19.41	2
		1	49	19.48	19.41	19.46	2			1	24	19.45	19.41	19.46	2
		25	0	18.37	18.30	18.35	3			12	0	18.37	18.30	18.32	3
		25	12	18.32	18.25	18.30	3			12	6	18.26	18.17	18.22	3
		25	25	18.30	18.23	18.28	3			12	13	18.22	18.21	18.18	3
		50	0	18.27	18.20	18.25	3			25	0	18.17	18.17	18.22	3

LTE Band 25																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26140	26365	26590				Channel		26115	26365	26615	
		Frequency (MHz)		1860.0	1882.5	1905.0				Frequency (MHz)		1857.5	1882.5	1907.5	
20M	QPSK	1	0	23.86	23.83	23.84	0	15M	QPSK	1	0	23.80	23.73	23.79	0
		1	50	23.69	23.66	23.67	0			1	37	23.66	23.62	23.64	0
		1	99	23.84	23.81	23.82	0			1	74	23.79	23.76	23.81	0
		50	0	22.94	22.91	22.92	1			36	0	22.89	22.81	22.90	1
		50	25	22.80	22.77	22.78	1			36	19	22.78	22.77	22.75	1
		50	50	22.82	22.79	22.80	1			36	39	22.79	22.76	22.75	1
		100	0	22.81	22.78	22.79	1			75	0	22.74	22.70	22.77	1
	16QAM	1	0	22.81	22.82	22.77	1		16QAM	1	0	22.74	22.73	22.69	1
		1	50	22.69	22.59	22.64	1			1	37	22.66	22.58	22.52	1
		1	99	22.81	22.75	22.81	1			1	74	22.67	22.73	22.71	1
		50	0	21.87	21.89	21.86	2			36	0	21.88	21.88	21.79	2
		50	25	21.74	21.73	21.69	2			36	19	21.69	21.67	21.75	2
		50	50	21.73	21.69	21.72	2			36	39	21.82	21.70	21.73	2
		100	0	21.74	21.70	21.70	2			75	0	21.71	21.68	21.71	2
	64QAM	1	0	21.85	21.82	21.74	2		64QAM	1	0	21.69	21.68	21.80	2
		1	50	21.67	21.59	21.62	2			1	37	21.63	21.57	21.56	2
		1	99	21.75	21.76	21.77	2			1	74	21.75	21.69	21.71	2
		50	0	20.85	20.91	20.87	3			36	0	20.78	20.76	20.84	3
		50	25	20.78	20.73	20.70	3			36	19	20.64	20.76	20.72	3
		50	50	20.73	20.74	20.70	3			36	39	20.79	20.69	20.61	3
		100	0	20.72	20.73	20.76	3			75	0	20.70	20.71	20.73	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26090	26365	26640				Channel		26065	26365	26665	
		Frequency (MHz)		1855.0	1882.5	1910.0				Frequency (MHz)		1852.5	1882.5	1912.5	
10M	QPSK	1	0	23.74	23.71	23.76	0	5M	QPSK	1	0	23.78	23.74	23.74	0
		1	24	23.57	23.44	23.54	0			1	12	23.51	23.55	23.54	0
		1	49	23.67	23.71	23.70	0			1	24	23.70	23.67	23.69	0
		25	0	22.83	22.78	22.89	1			12	0	22.82	22.88	22.64	1
		25	12	22.71	22.62	22.67	1			12	6	22.64	22.67	22.64	1
		25	25	22.72	22.64	22.66	1			12	13	22.78	22.67	22.58	1
		50	0	22.67	22.64	22.55	1			25	0	22.72	22.63	22.52	1
	16QAM	1	0	22.69	22.69	22.58	1		16QAM	1	0	22.73	22.62	22.70	1
		1	24	22.45	22.59	22.47	1			1	12	22.48	22.59	22.53	1
		1	49	22.68	22.71	22.67	1			1	24	22.66	22.67	22.57	1
		25	0	21.88	21.67	21.79	2			12	0	21.88	21.71	21.70	2
		25	12	21.66	21.61	21.70	2			12	6	21.56	21.68	21.59	2
		25	25	21.69	21.57	21.56	2			12	13	21.59	21.66	21.70	2
		50	0	21.63	21.72	21.63	2			25	0	21.67	21.59	21.62	2
	64QAM	1	0	21.56	21.67	21.55	2		64QAM	1	0	21.60	21.74	21.71	2
		1	24	21.47	21.40	21.51	2			1	12	21.47	21.43	21.48	2
		1	49	21.66	21.63	21.53	2			1	24	21.65	21.63	21.59	2
		25	0	20.77	20.75	20.60	3			12	0	20.78	20.67	20.72	3
		25	12	20.67	20.60	20.57	3			12	6	20.72	20.48	20.63	3
		25	25	20.72	20.60	20.58	3			12	13	20.60	20.50	20.59	3
		50	0	20.59	20.53	20.61	3			25	0	20.72	20.58	20.55	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26055	26365	26675				Channel		26047	26365	26683	
		Frequency (MHz)		1851.5	1882.5	1913.5				Frequency (MHz)		1850.7	1882.5	1914.3	
3M	QPSK	1	0	23.76	23.68	23.69	0	1.4M	QPSK	1	0	23.78	23.75	23.73	0
		1	7	23.60	23.51	23.55	0			1	2	23.62	23.60	23.62	0
		1	14	23.70	23.69	23.70	0			1	5	23.65	23.67	23.68	0
		8	0	22.81	22.88	22.78	1			3	0	23.81	23.80	23.84	0
		8	3	22.69	22.72	22.62	1			3	1	23.69	23.53	23.75	0
		8	7	22.70	22.70	22.68	1			3	3	23.69	23.59	23.64	0
		15	0	22.68	22.69	22.70	1			6	0	22.74	22.66	22.74	1
	16QAM	1	0	22.70	22.74	22.70	1		16QAM	1	0	22.77	22.75	22.54	1
		1	7	22.48	22.39	22.44	1			1	2	22.52	22.44	22.36	1
		1	14	22.56	22.76	22.56	1			1	5	22.63	22.65	22.50	1
		8	0	21.80	21.69	21.84	2			3	0	22.80	22.90	22.66	1
		8	3	21.61	21.68	21.51	2			3	1	22.65	22.60	22.69	1
		8	7	21.63	21.68	21.52	2			3	3	22.66	22.61	22.64	1
		15	0	21.60	21.55	21.61	2			6	0	21.58	21.67	21.66	2
	64QAM	1	0	21.68	21.72	21.69	2		64QAM	1	0	21.72	21.68	21.69	2
		1	7	21.52	21.53	21.44	2			1	2	21.48	21.52	21.45	2
		1	14	21.55	21.70	21.64	2			1	5	21.64	21.62	21.61	2
		8	0	20.64	20.71	20.79	3			3	0	21.86	21.83	21.80	2
		8	3	20.65	20.62	20.61	3			3	1	21.61	21.58	21.62	2
		8	7	20.53	20.53	20.73	3			3	3	21.72	21.56	21.68	2
		15	0	20.54	20.50	20.55	3			6	0	20.59	20.62	20.62	3

LTE Band 25																
EUT with Power Reduction (P-Sensor Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26140	26365	26590				Channel		26115	26365	26615	
		Frequency (MHz)		1860.0	1882.5	1905.0				Frequency (MHz)		1857.5	1882.5	1907.5	
20M	QPSK	1	0	17.23	17.17	17.18	0	15M	QPSK	1	0	17.15	17.08	17.08	0
		1	50	17.10	17.04	17.05	0			1	37	17.00	16.99	16.95	0
		1	99	17.22	17.16	17.17	0			1	74	17.15	17.13	17.16	0
		50	0	16.20	16.14	16.15	1			36	0	16.11	16.05	16.11	1
		50	25	16.15	16.09	16.10	1			36	19	16.09	16.03	16.09	1
		50	50	16.14	16.08	16.09	1			36	39	16.14	16.03	16.03	1
		100	0	16.15	16.09	16.10	1			75	0	16.07	16.03	16.02	1
	16QAM	1	0	16.45	16.39	16.40	1		16QAM	1	0	16.42	16.36	16.34	1
		1	50	16.37	16.31	16.32	1			1	37	16.36	16.21	16.30	1
		1	99	16.43	16.37	16.38	1			1	74	16.41	16.33	16.32	1
		50	0	15.23	15.17	15.18	2			36	0	15.18	15.12	15.09	2
		50	25	15.17	15.11	15.12	2			36	19	15.10	15.11	15.02	2
		50	50	15.16	15.10	15.11	2			36	39	15.09	15.04	15.04	2
		100	0	15.14	15.08	15.09	2			75	0	15.14	14.99	15.08	2
	64QAM	1	0	15.41	15.35	15.36	2		64QAM	1	0	15.31	15.28	15.34	2
		1	50	15.34	15.28	15.29	2			1	37	15.26	15.19	15.23	2
		1	99	15.32	15.26	15.27	2			1	74	15.28	15.26	15.27	2
		50	0	14.19	14.13	14.14	3			36	0	14.16	14.04	14.04	3
		50	25	14.15	14.09	14.10	3			36	19	14.08	14.09	14.10	3
		50	50	14.12	14.06	14.07	3			36	39	14.02	14.01	13.97	3
		100	0	14.16	14.10	14.11	3			75	0	14.07	14.04	14.09	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26090	26365	26640				Channel		26065	26365	26665	
		Frequency (MHz)		1855.0	1882.5	1910.0				Frequency (MHz)		1852.5	1882.5	1912.5	
10M	QPSK	1	0	17.05	17.11	17.15	0	5M	QPSK	1	0	17.10	17.05	16.97	0
		1	24	16.93	16.92	16.89	0			1	12	16.99	16.90	16.78	0
		1	49	17.07	17.04	17.11	0			1	24	17.00	17.03	17.15	0
		25	0	16.14	16.07	16.02	1			12	0	16.18	15.94	16.01	1
		25	12	16.04	15.95	16.00	1			12	6	16.00	16.08	15.78	1
		25	25	16.12	15.90	16.01	1			12	13	15.99	15.89	15.93	1
		50	0	16.02	16.05	15.98	1			25	0	15.96	16.05	15.78	1
	16QAM	1	0	16.31	16.32	16.26	1		16QAM	1	0	16.35	16.22	16.32	1
		1	24	16.18	16.23	16.21	1			1	12	16.28	16.26	16.19	1
		1	49	16.33	16.33	16.24	1			1	24	16.33	16.34	16.29	1
		25	0	15.03	14.99	15.13	2			12	0	15.04	15.13	15.10	2
		25	12	15.01	14.97	14.93	2			12	6	15.09	15.06	15.04	2
		25	25	15.04	15.00	14.96	2			12	13	15.16	15.02	14.94	2
		50	0	15.06	14.95	14.98	2			25	0	14.98	14.88	15.01	2
	64QAM	1	0	15.32	15.16	15.20	2		64QAM	1	0	15.18	15.21	15.28	2
		1	24	15.18	15.24	15.19	2			1	12	15.30	15.14	15.09	2
		1	49	15.14	15.17	15.07	2			1	24	15.17	15.03	15.13	2
		25	0	14.02	13.99	14.09	3			12	0	13.99	13.99	14.02	3
		25	12	14.04	14.00	13.96	3			12	6	14.02	14.04	13.87	3
		25	25	14.01	13.95	13.93	3			12	13	14.06	14.03	13.85	3
		50	0	13.96	14.02	14.10	3			25	0	14.12	13.97	13.99	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26055	26365	26675				Channel		26047	26365	26683	
		Frequency (MHz)		1851.5	1882.5	1913.5				Frequency (MHz)		1850.7	1882.5	1914.3	
3M	QPSK	1	0	17.15	17.04	17.08	0	1.4M	QPSK	v	0	17.09	17.07	17.07	0
		1	7	17.05	16.88	16.90	0			1	2	16.96	16.91	17.00	0
		1	14	17.11	17.06	16.97	0			1	5	17.02	17.13	16.94	0
		8	0	16.12	15.96	15.93	1			3	0	17.02	16.99	16.97	0
		8	3	15.96	16.04	15.91	1			3	1	16.94	17.01	16.87	0
		8	7	15.90	15.89	15.94	1			3	3	16.95	16.97	17.00	0
		15	0	15.98	16.00	15.93	1			6	0	15.96	15.99	15.95	1
	16QAM	1	0	16.27	16.30	16.30	1		16QAM	1	0	16.35	16.37	16.30	1
		1	7	16.30	16.15	16.22	1			1	2	16.29	16.20	16.13	1
		1	14	16.40	16.29	16.23	1			1	5	16.32	16.22	16.30	1
		8	0	15.11	15.01	15.03	2			3	0	16.17	16.08	16.00	1
		8	3	15.10	14.91	14.95	2			3	1	16.01	15.98	15.95	1
		8	7	15.09	14.90	15.00	2			3	3	16.07	15.96	15.87	1
		15	0	15.06	15.01	14.98	2			6	0	15.05	14.96	14.94	2
	64QAM	1	0	15.40	15.31	15.27	2		64QAM	1	0	15.33	15.28	15.20	2
		1	7	15.21	15.14	15.17	2			1	2	15.20	15.05	15.21	2
		1	14	15.19	15.09	15.07	2			1	5	15.16	15.19	15.21	2
		8	0	14.05	13.99	13.96	3			3	0	14.97	15.06	15.01	2
		8	3	13.98	13.98	14.03	3			3	1	15.04	14.90	15.00	2
		8	7	13.98	13.92	13.96	3			3	3	15.09	15.00	14.83	2
		15	0	14.00	13.97	13.97	3			6	0	14.16	14.08	13.91	3

LTE Band 26

EUT without Power Reduction (P-Sensor NOT Triggered)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26765	26865	26965	
		Frequency (MHz)		821.5	831.5	841.5	
15M	QPSK	1	0	23.79	23.76	23.81	0
		1	37	23.76	23.73	23.78	0
		1	74	23.73	23.70	23.75	0
		36	0	22.77	22.74	22.79	1
		36	19	22.75	22.72	22.77	1
		36	39	22.71	22.68	22.73	1
		75	0	22.79	22.76	22.81	1
	16QAM	1	0	22.77	22.75	22.77	1
		1	37	22.68	22.67	22.76	1
		1	74	22.73	22.62	22.71	1
		36	0	21.72	21.73	21.70	2
		36	19	21.66	21.63	21.72	2
		36	39	21.61	21.63	21.63	2
		75	0	21.78	21.68	21.74	2
	64QAM	1	0	21.74	21.67	21.74	2
		1	37	21.76	21.64	21.74	2
		1	74	21.68	21.60	21.72	2
		36	0	20.68	20.65	20.74	3
		36	19	20.67	20.65	20.75	3
		36	39	20.68	20.63	20.63	3
		75	0	20.74	20.76	20.75	3

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26740	26865	26990	
		Frequency (MHz)		819.0	831.5	844.0	
10M	QPSK	1	0	23.74	23.69	23.73	0
		1	24	23.70	23.71	23.74	0
		1	49	23.69	23.62	23.75	0
		25	0	22.71	22.65	22.75	1
		25	12	22.67	22.68	22.72	1
		25	25	22.62	22.59	22.65	1
		50	0	22.69	22.74	22.71	1
	16QAM	1	0	22.64	22.67	22.72	1
		1	24	22.64	22.64	22.68	1
		1	49	22.63	22.64	22.72	1
		25	0	21.59	21.67	21.65	2
		25	12	21.67	21.55	21.61	2
		25	25	21.61	21.60	21.59	2
		50	0	21.72	21.61	21.74	2
	64QAM	1	0	21.76	21.67	21.71	2
		1	24	21.59	21.55	21.64	2
		1	49	21.68	21.68	21.69	2
		25	0	20.62	20.57	20.70	3
		25	12	20.71	20.55	20.68	3
		25	25	20.67	20.60	20.66	3
		50	0	20.67	20.69	20.63	3

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26715	26865	27015	
		Frequency (MHz)		816.5	831.5	846.5	
5M	QPSK	1	0	23.74	23.62	23.71	0
		1	12	23.59	23.57	23.61	0
		1	24	23.66	23.66	23.59	0
		12	0	22.69	22.58	22.66	1
		12	6	22.61	22.62	22.57	1
		12	13	22.47	22.54	22.70	1
		25	0	22.57	22.59	22.72	1
	16QAM	1	0	22.59	22.69	22.53	1
		1	12	22.50	22.53	22.59	1
		1	24	22.50	22.47	22.54	1
		12	0	21.63	21.51	21.59	2
		12	6	21.68	21.55	21.50	2
		12	13	21.47	21.44	21.49	2
		25	0	21.57	21.47	21.58	2
	64QAM	1	0	21.51	21.62	21.67	2
		1	12	21.56	21.50	21.63	2
		1	24	21.49	21.56	21.43	2
		12	0	20.65	20.53	20.51	3
		12	6	20.55	20.53	20.62	3
		12	13	20.53	20.51	20.56	3
		25	0	20.60	20.67	20.71	3

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26705	26865	27025	
		Frequency (MHz)		815.5	831.5	847.5	
3M	QPSK	1	0	23.64	23.67	23.72	0
		1	7	23.63	23.60	23.63	0
		1	14	23.50	23.61	23.52	0
		8	0	22.68	22.55	22.57	1
		8	3	22.63	22.55	22.55	1
		8	7	22.63	22.51	22.65	1
		15	0	22.60	22.56	22.55	1
	16QAM	1	0	22.64	22.59	22.56	1
		1	7	22.57	22.59	22.63	1
		1	14	22.63	22.57	22.69	1
		8	0	21.57	21.55	21.64	2
		8	3	21.52	21.49	21.59	2
		8	7	21.49	21.54	21.68	2
		15	0	21.65	21.66	21.63	2
	64QAM	1	0	21.64	21.64	21.69	2
		1	7	21.63	21.53	21.71	2
		1	14	21.66	21.44	21.54	2
		8	0	20.70	20.70	20.58	3
		8	3	20.47	20.63	20.62	3
		8	7	20.51	20.56	20.54	3
		15	0	20.56	20.59	20.62	3

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26697	26865	27033	
		Frequency (MHz)		814.7	831.5	848.3	
1.4M	QPSK	1	0	23.58	23.61	23.68	0
		1	2	23.72	23.53	23.60	0
		1	5	23.57	23.46	23.56	0
		3	0	23.69	23.65	23.66	0
		3	1	23.75	23.65	23.66	0
		3	3	23.58	23.63	23.56	0
		6	0	22.58	22.63	22.71	1
	16QAM	1	0	22.68	22.54	22.53	1
		1	2	22.62	22.62	22.64	1
		1	5	22.44	22.46	22.49	1
		3	0	22.56	22.55	22.55	1
		3	1	22.66	22.58	22.65	1
		3	3	22.44	22.62	22.59	1
		6	0	21.51	21.53	21.60	2
	64QAM	1	0	21.64	21.52	21.56	2
		1	2	21.53	21.65	21.67	2
		1	5	21.66	21.53	21.60	2
		3	0	21.53	21.53	21.67	2
		3	1	21.68	21.56	21.63	2
		3	3	21.55	21.64	21.58	2
		6	0	20.68	20.61	20.72	3

LTE Band 26

EUT with Power Reduction (P-Sensor Triggered)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26765	26865	26965	
		Frequency (MHz)		821.5	831.5	841.5	
15M	QPSK	1	0	20.76	20.73	20.81	0
		1	37	20.74	20.71	20.79	0
		1	74	20.70	20.67	20.75	0
		36	0	19.68	19.65	19.73	1
		36	19	19.67	19.64	19.72	1
		36	39	19.64	19.61	19.69	1
		75	0	19.74	19.71	19.79	1
	16QAM	1	0	19.91	19.98	19.96	1
		1	37	19.95	19.92	19.98	1
		1	74	19.94	19.91	19.99	1
		36	0	18.71	18.68	18.76	2
		36	19	18.75	18.72	18.80	2
		36	39	18.77	18.74	18.82	2
		75	0	18.76	18.73	18.81	2
	64QAM	1	0	18.95	18.92	19.00	2
		1	37	18.91	18.88	18.96	2
		1	74	18.80	18.77	18.85	2
		36	0	17.72	17.69	17.77	3
		36	19	17.76	17.73	17.81	3
		36	39	17.77	17.74	17.82	3
		75	0	17.75	17.72	17.80	3

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26740	26865	26990	
		Frequency (MHz)		819.0	831.5	844.0	
10M	QPSK	1	0	20.66	20.66	20.72	0
		1	24	20.65	20.61	20.79	0
		1	49	20.68	20.63	20.68	0
		25	0	19.63	19.61	19.70	1
		25	12	19.57	19.61	19.63	1
		25	25	19.64	19.51	19.62	1
		50	0	19.66	19.71	19.76	1
	16QAM	1	0	19.81	19.92	19.87	1
		1	24	19.95	19.89	19.94	1
		1	49	19.85	19.83	19.96	1
		25	0	18.67	18.58	18.76	2
		25	12	18.75	18.72	18.70	2
		25	25	18.71	18.69	18.79	2
		50	0	18.74	18.72	18.80	2
	64QAM	1	0	18.86	18.86	19.00	2
		1	24	18.84	18.85	18.96	2
		1	49	18.70	18.69	18.76	2
		25	0	17.65	17.66	17.67	3
		25	12	17.74	17.73	17.77	3
		25	25	17.72	17.73	17.80	3
		50	0	17.65	17.69	17.79	3

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26715	26865	27015	
		Frequency (MHz)		816.5	831.5	846.5	
5M	QPSK	1	0	20.65	20.64	20.64	0
		1	12	20.58	20.52	20.75	0
		1	24	20.53	20.58	20.58	0
		12	0	19.51	19.41	19.58	1
		12	6	19.56	19.50	19.51	1
		12	13	19.40	19.36	19.52	1
		25	0	19.67	19.62	19.61	1
	16QAM	1	0	19.79	19.91	19.87	1
		1	12	19.78	19.81	19.95	1
		1	24	19.83	19.77	19.87	1
		12	0	18.60	18.64	18.54	2
		12	6	18.68	18.56	18.68	2
		12	13	18.69	18.70	18.71	2
		25	0	18.59	18.62	18.67	2
	64QAM	1	0	18.72	18.69	18.88	2
		1	12	18.80	18.67	18.72	2
		1	24	18.77	18.68	18.66	2
		12	0	17.52	17.64	17.71	3
		12	6	17.57	17.69	17.64	3
		12	13	17.57	17.71	17.77	3
		25	0	17.60	17.56	17.62	3

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26705	26865	27025	
		Frequency (MHz)		815.5	831.5	847.5	
3M	QPSK	1	0	20.70	20.67	20.64	0
		1	7	20.55	20.62	20.52	0
		1	14	20.57	20.59	20.62	0
		8	0	19.57	19.58	19.56	1
		8	3	19.46	19.53	19.45	1
		8	7	19.51	19.57	19.49	1
		15	0	19.72	19.47	19.46	1
	16QAM	1	0	19.79	19.94	19.81	1
		1	7	19.80	19.71	19.81	1
		1	14	19.73	19.85	19.95	1
		8	0	18.52	18.57	18.53	2
		8	3	18.71	18.51	18.61	2
		8	7	18.74	18.63	18.58	2
		15	0	18.64	18.59	18.67	2
	64QAM	1	0	18.81	18.85	18.98	2
		1	7	18.74	18.73	18.81	2
		1	14	18.67	18.69	18.76	2
		8	0	17.59	17.53	17.66	3
		8	3	17.65	17.60	17.72	3
		8	7	17.69	17.61	17.71	3
		15	0	17.58	17.60	17.73	3

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26697	26865	27033	
		Frequency (MHz)		814.7	831.5	848.3	
1.4M	QPSK	1	0	20.64	20.56	20.71	0
		1	2	20.61	20.57	20.73	0
		1	5	20.52	20.59	20.67	0
		3	0	20.50	20.57	20.61	0
		3	1	20.57	20.54	20.71	0
		3	3	20.51	20.49	20.61	0
		6	0	19.69	19.62	19.68	1
	16QAM	1	0	19.71	19.78	19.85	1
		1	2	19.71	19.79	19.93	1
		1	5	19.76	19.83	19.88	1
		3	0	19.52	19.46	19.55	1
		3	1	19.66	19.60	19.58	1
		3	3	19.55	19.65	19.65	1
		6	0	18.66	18.58	18.68	2
	64QAM	1	0	18.84	18.83	18.92	2
		1	2	18.75	18.78	18.90	2
		1	5	18.65	18.61	18.71	2
		3	0	18.60	18.59	18.65	2
		3	1	18.70	18.60	18.77	2
		3	3	18.67	18.60	18.66	2
		6	0	17.66	17.63	17.71	3

LTE Band 30																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset		Mid		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			27710					Channel		27685	27710	27735	
		Frequency (MHz)			2310.0					Frequency (MHz)		2307.5	2310.0	2312.5	
10M	QPSK	1	0		22.96		0	5M	QPSK	1	0	22.84	22.86	22.90	0
		1	24		22.92		0			1	12	22.82	22.84	22.88	0
		1	49		22.87		0			1	24	22.76	22.78	22.82	0
		25	0		21.95		1			12	0	21.84	21.86	21.90	1
		25	12		21.92		1			12	6	21.83	21.85	21.89	1
		25	25		21.93		1			12	13	21.79	21.81	21.85	1
		50	0		21.94		1			25	0	21.84	21.86	21.90	1
	16QAM	1	0		21.95		1		16QAM	1	0	21.76	21.81	21.89	1
		1	24		21.90		1			1	12	21.77	21.82	21.88	1
		1	49		21.78		1			1	24	21.73	21.72	21.74	1
		25	0		20.88		2			12	0	20.84	20.79	20.86	2
		25	12		20.91		2			12	6	20.75	20.81	20.80	2
		25	25		20.91		2			12	13	20.79	20.79	20.77	2
		50	0		20.87		2			25	0	20.84	20.82	20.81	2
	64QAM	1	0		20.96		2		64QAM	1	0	20.79	20.86	20.82	2
		1	24		20.84		2			1	12	20.79	20.78	20.78	2
		1	49		20.79		2			1	24	20.72	20.72	20.78	2
		25	0		19.91		3			12	0	19.81	19.85	19.86	3
		25	12		19.91		3			12	6	19.79	19.78	19.86	3
		25	25		19.89		3			12	13	19.77	19.81	19.76	3
		50	0		19.86		3			25	0	19.80	19.81	19.87	3

LTE Band 30																
EUT with Power Reduction (P-Sensor Triggered)																
BW	MCS Index	RB Size	RB Offset		Mid		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel			27710					Channel		27685	27710	27735	
		Frequency (MHz)			2310.0					Frequency (MHz)		2307.5	2310.0	2312.5	
10M	QPSK	1	0		16.93		0	5M	QPSK	1	0	16.88	16.87	16.84	0
		1	24		16.82		0			1	12	16.83	16.82	16.79	0
		1	49		16.78		0			1	24	16.86	16.85	16.82	0
		25	0		15.91		1			12	0	15.77	15.76	15.73	1
		25	12		15.88		1			12	6	15.73	15.72	15.69	1
		25	25		15.85		1			12	13	15.78	15.77	15.74	1
		50	0		15.90		1			25	0	15.75	15.74	15.71	1
	16QAM	1	0		15.99		1		16QAM	1	0	15.96	15.95	15.92	1
		1	24		15.89		1			1	12	15.93	15.92	15.89	1
		1	49		15.88		1			1	24	15.85	15.84	15.81	1
		25	0		14.95		2			12	0	14.79	14.78	14.75	2
		25	12		14.93		2			12	6	14.72	14.71	14.68	2
		25	25		14.98		2			12	13	14.75	14.74	14.71	2
		50	0		14.93		2			25	0	14.67	14.66	14.63	2
	64QAM	1	0		14.98		2		64QAM	1	0	14.95	14.94	14.91	2
		1	24		14.95		2			1	12	14.91	14.90	14.87	2
		1	49		14.88		2			1	24	14.89	14.88	14.85	2
		25	0		13.91		3			12	0	13.77	13.76	13.73	3
		25	12		13.95		3			12	6	13.68	13.67	13.64	3
		25	25		13.98		3			12	13	13.75	13.74	13.71	3
		50	0		13.96		3			25	0	13.63	13.62	13.59	3

LTE Band 38															
EUT without Power Reduction (P-Sensor NOT Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37850	38000	38150				Channel		37825	38000	38175	
		Frequency (MHz)		2580	2595	2610				Frequency (MHz)		2577.5	2595	2612.5	
20M	QPSK	1	0	23.95	23.89	23.98	0	15M	QPSK	1	0	23.91	23.81	23.97	0
		1	50	23.93	23.87	23.96	0			1	37	23.88	23.81	23.90	0
		1	99	23.88	23.82	23.91	0			1	74	23.81	23.74	23.90	0
		50	0	22.89	22.83	22.92	1			36	0	22.86	22.73	22.82	1
		50	25	22.87	22.81	22.90	1			36	19	22.82	22.72	22.88	1
		50	50	22.88	22.82	22.91	1			36	39	22.86	22.74	22.85	1
		100	0	22.92	22.86	22.95	1			75	0	22.91	22.76	22.86	1
	16QAM	1	0	22.87	22.84	22.95	1		16QAM	1	0	22.83	22.87	22.93	1
		1	50	22.86	22.85	22.96	1			1	37	22.83	22.71	22.80	1
		1	99	22.88	22.72	22.87	1			1	74	22.85	22.69	22.78	1
		50	0	21.84	21.80	21.82	2			36	0	21.77	21.77	21.80	2
		50	25	21.78	21.81	21.83	2			36	19	21.68	21.75	21.77	2
		50	50	21.84	21.73	21.85	2			36	39	21.83	21.70	21.91	2
		100	0	21.91	21.82	21.92	2			75	0	21.80	21.84	21.91	2
	64QAM	1	0	21.90	21.82	21.94	2		64QAM	1	0	21.79	21.75	21.90	2
		1	50	21.91	21.81	21.93	2			1	37	21.77	21.78	21.86	2
		1	99	21.81	21.80	21.82	2			1	74	21.83	21.66	21.79	2
		50	0	20.86	20.73	20.84	3			36	0	20.84	20.77	20.88	3
		50	25	20.77	20.72	20.82	3			36	19	20.72	20.68	20.77	3
		50	50	20.87	20.79	20.82	3			36	39	20.75	20.73	20.81	3
		100	0	20.90	20.82	20.89	3			75	0	20.83	20.83	20.79	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37800	38000	38200				Channel		37775	38000	38225	
		Frequency (MHz)		2575	2595	2615				Frequency (MHz)		2572.5	2595	2617.5	
10M	QPSK	1	0	23.91	23.68	23.95	0	5M	QPSK	1	0	23.88	23.76	23.81	0
		1	24	23.77	23.77	23.75	0			1	12	23.79	23.69	23.90	0
		1	49	23.74	23.80	23.88	0			1	24	23.72	23.75	23.64	0
		25	0	22.76	22.74	22.81	1			12	0	22.86	22.69	22.60	1
		25	12	22.80	22.79	22.79	1			12	6	22.81	22.65	22.81	1
		25	25	22.65	22.68	22.77	1			12	13	22.81	22.70	22.74	1
		50	0	22.78	22.77	22.83	1			25	0	22.67	22.70	22.66	1
	16QAM	1	0	22.74	22.71	22.88	1		16QAM	1	0	22.81	22.72	22.87	1
		1	24	22.80	22.63	22.64	1			1	12	22.75	22.60	22.86	1
		1	49	22.75	22.59	22.74	1			1	24	22.67	22.65	22.72	1
		25	0	21.70	21.65	21.64	2			12	0	21.74	21.60	21.83	2
		25	12	21.72	21.61	21.78	2			12	6	21.83	21.67	21.78	2
		25	25	21.78	21.67	21.69	2			12	13	21.61	21.66	21.77	2
		50	0	21.70	21.75	21.72	2			25	0	21.71	21.71	21.78	2
	64QAM	1	0	21.78	21.68	21.85	2		64QAM	1	0	21.73	21.70	21.72	2
		1	24	21.67	21.66	21.67	2			1	12	21.73	21.68	21.77	2
		1	49	21.66	21.58	21.68	2			1	24	21.69	21.64	21.73	2
		25	0	20.78	20.65	20.78	3			12	0	20.76	20.53	20.77	3
		25	12	20.66	20.55	20.78	3			12	6	20.75	20.61	20.60	3
		25	25	20.70	20.60	20.78	3			12	13	20.73	20.64	20.60	3
		50	0	20.73	20.69	20.80	3			25	0	20.75	20.80	20.70	3

LTE Band 38															
EUT with Power Reduction (P-Sensor Triggered)															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37850	38000	38150				Channel		37825	38000	38175	
		Frequency (MHz)		2580	2595	2610				Frequency (MHz)		2577.5	2595	2612.5	
20M	QPSK	1	0	17.87	17.79	17.96	0	15M	QPSK	1	0	17.86	17.71	17.96	0
		1	50	17.75	17.69	17.86	0			1	37	17.73	17.69	17.81	0
		1	99	17.79	17.72	17.88	0			1	74	17.75	17.69	17.80	0
		50	0	16.72	16.66	16.83	1			36	0	16.63	16.60	16.79	1
		50	25	16.72	16.64	16.81	1			36	19	16.69	16.60	16.74	1
		50	50	16.73	16.70	16.82	1			36	39	16.72	16.60	16.76	1
		100	0	16.78	16.69	16.86	1			75	0	16.74	16.68	16.86	1
	16QAM	1	0	16.75	16.67	16.84	1		16QAM	1	0	16.72	16.57	16.75	1
		1	50	16.84	16.72	16.93	1			1	37	16.74	16.68	16.91	1
		1	99	16.80	16.73	16.90	1			1	74	16.74	16.65	16.83	1
		50	0	15.82	15.74	15.91	2			36	0	15.82	15.73	15.86	2
		50	25	15.73	15.70	15.86	2			36	19	15.71	15.61	15.80	2
		50	50	15.76	15.68	15.85	2			36	39	15.73	15.67	15.77	2
		100	0	15.77	15.71	15.85	2			75	0	15.77	15.69	15.80	2
	64QAM	1	0	15.89	15.81	15.98	2		64QAM	1	0	15.87	15.73	15.88	2
		1	50	15.79	15.71	15.88	2			1	37	15.78	15.68	15.78	2
		1	99	15.72	15.64	15.81	2			1	74	15.65	15.62	15.76	2
		50	0	14.82	14.72	14.90	3			36	0	14.80	14.67	14.90	3
		50	25	14.80	14.72	14.89	3			36	19	14.73	14.65	14.86	3
		50	50	14.80	14.74	14.87	3			36	39	14.73	14.70	14.86	3
		100	0	14.75	14.67	14.84	3			75	0	14.75	14.65	14.76	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37800	38000	38200				Channel		37775	38000	38225	
		Frequency (MHz)		2575	2595	2615				Frequency (MHz)		2572.5	2595	2617.5	
10M	QPSK	1	0	17.78	17.59	17.89	0	5M	QPSK	1	0	17.82	17.58	17.85	0
		1	24	17.71	17.58	17.73	0			1	12	17.61	17.54	17.55	0
		1	49	17.69	17.51	17.80	0			1	24	17.67	17.60	17.68	0
		25	0	16.60	16.59	16.72	1			12	0	16.52	16.53	16.67	1
		25	12	16.65	16.45	16.67	1			12	6	16.55	16.58	16.65	1
		25	25	16.72	16.55	16.68	1			12	13	16.64	16.51	16.81	1
		50	0	16.59	16.55	16.71	1			25	0	16.72	16.61	16.57	1
	16QAM	1	0	16.67	16.44	16.65	1		16QAM	1	0	16.71	16.43	16.74	1
		1	24	16.65	16.68	16.89	1			1	12	16.73	16.61	16.81	1
		1	49	16.77	16.58	16.79	1			1	24	16.72	16.57	16.75	1
		25	0	15.61	15.64	15.84	2			12	0	15.73	15.57	15.79	2
		25	12	15.59	15.46	15.70	2			12	6	15.71	15.59	15.66	2
		25	25	15.67	15.59	15.74	2			12	13	15.72	15.64	15.72	2
		50	0	15.52	15.54	15.68	2			25	0	15.65	15.57	15.70	2
	64QAM	1	0	15.67	15.74	15.87	2		64QAM	1	0	15.83	15.70	15.92	2
		1	24	15.63	15.53	15.79	2			1	12	15.74	15.52	15.84	2
		1	49	15.66	15.46	15.76	2			1	24	15.63	15.60	15.69	2
		25	0	14.74	14.51	14.73	3			12	0	14.74	14.57	14.81	3
		25	12	14.69	14.51	14.75	3			12	6	14.71	14.56	14.70	3
		25	25	14.64	14.63	14.68	3			12	13	14.67	14.58	14.76	3
		50	0	14.56	14.60	14.69	3			25	0	14.65	14.54	14.76	3

LTE Band 41																			
EUT without Power Reduction (P-Sensor NOT Triggered)																			
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39750	40185	40620	41055	41490				Channel		39725	40173	40620	41068	41515	
		Frequency (MHz)		2506.0	2549.5	2593.0	2636.5	2680.0				Frequency (MHz)		2503.5	2548.3	2593.0	2637.8	2682.5	
20M	QPSK	1	0	23.86	24.18	23.67	23.83	23.74	0	15M	QPSK	1	0	23.82	24.12	23.61	23.80	23.73	0
		1	50	23.76	24.08	23.57	23.73	23.64	0			1	37	23.72	24.05	23.56	23.70	23.59	0
		1	99	23.77	24.09	23.58	23.74	23.65	0			1	74	23.76	24.04	23.55	23.67	23.56	0
		50	0	22.84	23.16	22.65	22.81	22.72	1			36	0	22.79	23.11	22.61	22.74	22.62	1
		50	25	22.74	23.06	22.55	22.71	22.62	1			36	19	22.74	22.96	22.53	22.69	22.62	1
		50	50	22.73	23.05	22.54	22.70	22.61	1			36	39	22.73	23.03	22.48	22.64	22.57	1
		100	0	22.76	23.08	22.57	22.73	22.64	1			75	0	22.72	23.08	22.54	22.66	22.59	1
	16QAM	1	0	22.76	23.11	22.66	22.80	22.68	1		16QAM	1	0	22.80	23.10	22.62	22.74	22.74	1
		1	50	22.67	23.04	22.53	22.67	22.56	1			1	37	22.73	22.99	22.49	22.64	22.54	1
		1	99	22.75	23.01	22.51	22.71	22.56	1			1	74	22.76	23.05	22.54	22.71	22.63	1
		50	0	21.82	22.11	21.55	21.71	21.72	2			36	0	21.80	22.12	21.60	21.76	21.62	2
		50	25	21.67	22.05	21.48	21.66	21.56	2			36	19	21.73	22.04	21.51	21.71	21.53	2
		50	50	21.66	22.05	21.44	21.67	21.56	2			36	39	21.65	22.04	21.53	21.68	21.53	2
		100	0	21.75	21.99	21.54	21.64	21.55	2			75	0	21.72	22.08	21.52	21.64	21.56	2
	64QAM	1	0	21.82	22.10	21.61	21.82	21.71	2		64QAM	1	0	21.81	22.15	21.66	21.73	21.74	2
		1	50	21.67	22.06	21.49	21.68	21.58	2			1	37	21.66	21.98	21.55	21.70	21.58	2
		1	99	21.71	22.03	21.52	21.74	21.59	2			1	74	21.73	22.00	21.55	21.72	21.58	2
		50	0	20.82	21.13	20.59	20.76	20.66	3			36	0	20.83	21.12	20.65	20.81	20.68	3
		50	25	20.65	20.98	20.45	20.69	20.55	3			36	19	20.64	21.00	20.45	20.62	20.58	3
		50	50	20.65	20.97	20.51	20.69	20.59	3			36	39	20.69	20.96	20.45	20.69	20.53	3
		100	0	20.69	20.98	20.49	20.69	20.54	3			75	0	20.76	21.04	20.52	20.63	20.60	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39700	40160	40620	41080	41540				Channel		39675	40148	40620	41093	41565	
		Frequency (MHz)		2501.0	2547.0	2593.0	2639.0	2685.0				Frequency (MHz)		2498.5	2545.8	2593.0	2640.3	2687.5	
10M	QPSK	1	0	23.77	24.13	23.57	23.69	23.68	0	5M	QPSK	1	0	23.67	24.05	23.56	23.72	23.64	0
		1	24	23.64	24.07	23.48	23.62	23.59	0			1	12	23.60	23.89	23.46	23.71	23.59	0
		1	49	23.60	24.01	23.39	23.69	23.63	0			1	24	23.71	23.98	23.51	23.70	23.61	0
		25	0	22.76	23.05	22.52	22.70	22.56	1			12	0	22.73	23.09	22.57	22.69	22.61	1
		25	12	22.73	23.04	22.41	22.66	22.55	1			12	6	22.67	22.97	22.44	22.56	22.56	1
		25	25	22.58	23.01	22.39	22.67	22.50	1			12	13	22.63	22.90	22.41	22.60	22.50	1
		50	0	22.70	23.00	22.40	22.60	22.56	1			25	0	22.67	23.03	22.43	22.54	22.54	1
	16QAM	1	0	22.78	23.13	22.62	22.73	22.65	1		16QAM	1	0	22.74	23.04	22.54	22.70	22.62	1
		1	24	22.58	23.03	22.46	22.71	22.57	1			1	12	22.63	22.99	22.53	22.72	22.55	1
		1	49	22.68	23.01	22.44	22.70	22.63	1			1	24	22.73	22.99	22.51	22.63	22.59	1
		25	0	21.75	22.11	21.52	21.79	21.62	2			12	0	21.68	22.09	21.58	21.78	21.62	2
		25	12	21.63	22.02	21.49	21.66	21.55	2			12	6	21.67	21.92	21.47	21.58	21.51	2
		25	25	21.64	21.99	21.42	21.61	21.50	2			12	13	21.62	21.90	21.42	21.65	21.55	2
		50	0	21.68	21.94	21.41	21.62	21.55	2			25	0	21.63	21.99	21.52	21.57	21.51	2
	64QAM	1	0	21.83	22.07	21.58	21.69	21.66	2		64QAM	1	0	21.68	22.10	21.53	21.74	21.64	2
		1	24	21.64	22.05	21.54	21.65	21.53	2			1	12	21.56	21.90	21.53	21.66	21.54	2
		1	49	21.60	22.00	21.38	21.63	21.63	2			1	24	21.67	22.03	21.42	21.65	21.63	2
		25	0	20.75	21.10	20.58	20.77	20.63	3			12	0	20.70	21.10	20.54	20.73	20.70	3
		25	12	20.68	20.96	20.42	20.65	20.58	3			12	6	20.66	20.92	20.44	20.56	20.54	3
		25	25	20.57	21.01	20.44	20.59	20.53	3			12	13	20.63	20.90	20.43	20.62	20.51	3
		50	0	20.72	21.00	20.40	20.58	20.56	3			25	0	20.64	21.01	20.44	20.61	20.52	3

LTE Band 41

EUT with Power Reduction (P-Sensor Triggered)

BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39750	40185	40620	41055	41490	
		Frequency (MHz)		2506.0	2549.5	2593.0	2636.5	2680.0	
20M	QPSK	1	0	16.95	16.97	16.76	16.88	16.77	0
		1	50	16.93	16.95	16.74	16.86	16.75	0
		1	99	16.92	16.94	16.73	16.85	16.74	0
		50	0	15.91	15.93	15.72	15.84	15.73	0
		50	25	15.82	15.84	15.63	15.75	15.64	0
		50	50	15.84	15.86	15.65	15.77	15.66	0
		100	0	15.86	15.88	15.67	15.79	15.68	0
	16QAM	1	0	15.92	15.94	15.73	15.85	15.74	0
		1	50	15.89	15.91	15.70	15.82	15.71	0
		1	99	15.95	15.97	15.76	15.88	15.77	0
		50	0	14.93	14.95	14.74	14.86	14.75	0
		50	25	14.85	14.87	14.66	14.78	14.67	0
		50	50	14.86	14.88	14.67	14.79	14.68	0
		100	0	14.83	14.85	14.64	14.76	14.65	0
	64QAM	1	0	14.96	14.98	14.77	14.89	14.78	0
		1	50	14.89	14.91	14.70	14.82	14.71	0
		1	99	14.87	14.89	14.68	14.80	14.69	0
		50	0	13.95	13.97	13.76	13.88	13.77	0
		50	25	13.87	13.89	13.68	13.80	13.69	0
		50	50	13.89	13.91	13.70	13.82	13.71	0
		100	0	13.87	13.89	13.68	13.80	13.69	0

BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39725	40173	40620	41068	41515	
		Frequency (MHz)		2503.5	2548.3	2593.0	2637.8	2682.5	
15M	QPSK	1	0	16.95	16.88	16.76	16.83	16.68	0
		1	37	16.86	16.85	16.68	16.76	16.72	0
		1	74	16.84	16.85	16.65	16.83	16.71	0
		36	0	15.83	15.91	15.62	15.83	15.66	0
		36	19	15.78	15.82	15.62	15.68	15.60	0
		36	39	15.76	15.83	15.57	15.76	15.58	0
		75	0	15.80	15.86	15.67	15.72	15.63	0
	16QAM	1	0	15.92	15.87	15.76	15.84	15.72	0
		1	37	15.87	15.93	15.68	15.76	15.70	0
		1	74	15.85	15.89	15.66	15.79	15.68	0
		36	0	14.88	14.88	14.64	14.79	14.71	0
		36	19	14.75	14.81	14.56	14.74	14.62	0
		36	39	14.81	14.80	14.58	14.77	14.61	0
		75	0	14.80	14.80	14.60	14.69	14.64	0
	64QAM	1	0	14.95	14.92	14.69	14.87	14.68	0
		1	37	14.92	14.90	14.68	14.84	14.75	0
		1	74	14.83	14.87	14.72	14.78	14.68	0
		36	0	13.87	13.91	13.68	13.76	13.70	0
		36	19	13.73	13.74	13.56	13.74	13.54	0
		36	39	13.84	13.85	13.57	13.69	13.64	0
		75	0	13.86	13.84	13.60	13.76	13.61	0

BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39700	40160	40620	41080	41540	
		Frequency (MHz)		2501.0	2547.0	2593.0	2639.0	2685.0	
10M	QPSK	1	0	16.88	16.84	16.65	16.82	16.69	0
		1	24	16.78	16.80	16.59	16.78	16.57	0
		1	49	16.75	16.86	16.67	16.75	16.59	0
		25	0	15.74	15.80	15.64	15.74	15.61	0
		25	12	15.65	15.66	15.63	15.64	15.54	0
		25	25	15.75	15.68	15.54	15.70	15.55	0
		50	0	15.68	15.70	15.59	15.74	15.59	0
	16QAM	1	0	15.93	15.84	15.72	15.83	15.73	0
		1	24	15.76	15.81	15.62	15.75	15.60	0
		1	49	15.83	15.81	15.59	15.78	15.65	0
		25	0	14.76	14.81	14.67	14.82	14.56	0
		25	12	14.66	14.65	14.54	14.68	14.53	0
		25	25	14.74	14.77	14.58	14.69	14.61	0
		50	0	14.70	14.74	14.62	14.78	14.54	0
	64QAM	1	0	14.88	14.92	14.70	14.79	14.69	0
		1	24	14.80	14.78	14.62	14.70	14.63	0
		1	49	14.75	14.87	14.65	14.73	14.67	0
		25	0	13.76	13.87	13.67	13.76	13.62	0
		25	12	13.64	13.66	13.60	13.71	13.56	0
		25	25	13.71	13.70	13.56	13.73	13.57	0
		50	0	13.74	13.75	13.57	13.77	13.58	0

BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39675	40148	40620	41093	41565	
		Frequency (MHz)		2498.5	2545.8	2593.0	2640.3	2687.5	
5M	QPSK	1	0	16.81	16.85	16.68	16.87	16.65	0
		1	12	16.84	16.85	16.58	16.75	16.71	0
		1	24	16.81	16.83	16.68	16.83	16.57	0
		12	0	15.83	15.84	15.62	15.74	15.64	0
		12	6	15.67	15.74	15.52	15.68	15.61	0
		12	13	15.75	15.82	15.54	15.72	15.56	0
		25	0	15.69	15.78	15.49	15.78	15.50	0
	16QAM	1	0	15.77	15.90	15.68	15.82	15.72	0
		1	12	15.79	15.85	15.57	15.69	15.65	0
		1	24	15.81	15.77	15.65	15.82	15.59	0
		12	0	14.81	14.90	14.61	14.72	14.59	0
		12	6	14.73	14.74	14.53	14.60	14.55	0
		12	13	14.75	14.77	14.55	14.68	14.54	0
		25	0	14.71	14.76	14.50	14.74	14.56	0
	64QAM	1	0	14.80	14.83	14.68	14.88	14.68	0
		1	12	14.77	14.86	14.61	14.79	14.65	0
		1	24	14.86	14.76	14.69	14.79	14.59	0
		12	0	13.81	13.89	13.64	13.74	13.63	0
		12	6	13.67	13.76	13.47	13.65	13.62	0
		12	13	13.70	13.75	13.55	13.71	13.55	0
		25	0	13.75	13.68	13.52	13.73	13.51	0

LTE Band 66																
EUT without Power Reduction (P-Sensor NOT Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		132072	132322	132572				Channel		132047	132322	132597	
		Frequency (MHz)		1720.0	1745.0	1770.0				Frequency (MHz)		1717.5	1745.0	1772.5	
20M	QPSK	1	0	23.93	23.92	23.86	0	15M	QPSK	1	0	23.93	23.90	23.78	0
		1	50	23.99	23.98	23.92	0			1	37	23.96	23.93	23.89	0
		1	99	23.91	23.90	23.84	0			1	74	23.87	23.85	23.84	0
		50	0	22.87	22.86	22.80	1			36	0	22.84	22.76	22.73	1
		50	25	22.96	22.95	22.89	1			36	19	22.88	22.85	22.82	1
		50	50	22.92	22.91	22.85	1			36	39	22.90	22.85	22.77	1
		100	0	22.88	22.87	22.81	1			75	0	22.78	22.79	22.75	1
	16QAM	1	0	22.89	22.87	22.81	1		16QAM	1	0	22.84	22.79	22.85	1
		1	50	22.89	22.95	22.83	1			1	37	22.91	22.87	22.79	1
		1	99	22.81	22.80	22.80	1			1	74	22.77	22.83	22.70	1
		50	0	21.82	21.79	21.80	2			36	0	21.74	21.77	21.70	2
		50	25	21.94	21.87	21.83	2			36	19	21.85	21.85	21.84	2
		50	50	21.90	21.85	21.76	2			36	39	21.86	21.80	21.79	2
		100	0	21.82	21.79	21.72	2			75	0	21.80	21.78	21.79	2
	64QAM	1	0	21.87	21.91	21.85	2		64QAM	1	0	21.89	21.82	21.76	2
		1	50	21.96	21.90	21.82	2			1	37	21.95	21.84	21.83	2
		1	99	21.81	21.81	21.75	2			1	74	21.82	21.84	21.75	2
		50	0	20.80	20.83	20.79	3			36	0	20.83	20.79	20.71	3
		50	25	20.93	20.87	20.88	3			36	19	20.91	20.87	20.82	3
		50	50	20.84	20.91	20.78	3			36	39	20.87	20.84	20.74	3
		100	0	20.79	20.81	20.75	3			75	0	20.87	20.83	20.73	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		132022	132322	132622				Channel		131997	132322	132647	
		Frequency (MHz)		1715.0	1745.0	1775.0				Frequency (MHz)		1712.5	1745.0	1777.5	
10M	QPSK	1	0	23.74	23.83	23.78	0	5M	QPSK	1	0	23.81	23.83	23.52	0
		1	24	23.84	23.82	23.68	0			1	12	23.91	23.80	23.69	0
		1	49	23.84	23.79	23.82	0			1	24	23.80	23.71	23.72	0
		25	0	22.78	22.78	22.59	1			12	0	22.74	22.78	22.76	1
		25	12	22.82	22.75	22.77	1			12	6	22.78	22.87	22.62	1
		25	25	22.77	22.79	22.74	1			12	13	22.82	22.82	22.68	1
		50	0	22.69	22.71	22.67	1			25	0	22.70	22.86	22.56	1
	16QAM	1	0	22.73	22.66	22.73	1		16QAM	1	0	22.69	22.81	22.69	1
		1	24	22.78	22.94	22.78	1			1	12	22.78	22.76	22.86	1
		1	49	22.66	22.60	22.66	1			1	24	22.77	22.69	22.71	1
		25	0	21.69	21.58	21.65	2			12	0	21.84	21.74	21.63	2
		25	12	21.73	21.79	21.80	2			12	6	21.73	21.76	21.81	2
		25	25	21.81	21.77	21.66	2			12	13	21.70	21.78	21.59	2
		50	0	21.68	21.76	21.59	2			25	0	21.59	21.75	21.59	2
	64QAM	1	0	21.79	21.72	21.62	2		64QAM	1	0	21.74	21.84	21.61	2
		1	24	21.82	21.81	21.79	2			1	12	21.89	21.70	21.77	2
		1	49	21.75	21.72	21.77	2			1	24	21.69	21.71	21.67	2
		25	0	20.81	20.62	20.62	3			12	0	20.64	20.72	20.59	3
		25	12	20.74	20.67	20.75	3			12	6	20.75	20.72	20.73	3
		25	25	20.74	20.81	20.59	3			12	13	20.84	20.73	20.75	3
		50	0	20.78	20.61	20.68	3			25	0	20.80	20.75	20.65	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		131987	132322	132657				Channel		131979	132322	132665	
		Frequency (MHz)		1711.5	1745.5	1778.5				Frequency (MHz)		1710.7	1745.0	1779.3	
3M	QPSK	1	0	23.77	23.74	23.82	0	1.4M	QPSK	1	0	23.80	23.80	23.75	0
		1	7	23.85	23.94	23.79	0			1	2	23.97	23.83	23.76	0
		1	14	23.79	23.73	23.71	0			1	5	23.83	23.85	23.77	0
		8	0	22.71	22.64	22.67	1			3	0	23.66	23.66	23.75	0
		8	3	22.95	22.81	22.73	1			3	1	23.88	23.83	23.70	0
		8	7	22.75	22.83	22.67	1			3	3	23.82	23.83	23.71	0
		15	0	22.74	22.79	22.63	1			6	0	22.74	22.75	22.71	1
	16QAM	1	0	22.81	22.70	22.72	1		16QAM	1	0	22.84	22.71	22.59	1
		1	7	22.70	22.81	22.73	1			1	2	22.81	22.88	22.75	1
		1	14	22.70	22.73	22.55	1			1	5	22.64	22.66	22.59	1
		8	0	21.71	21.69	21.60	2			3	0	22.66	22.70	22.53	1
		8	3	21.70	21.77	21.72	2			3	1	22.82	22.86	22.67	1
		8	7	21.70	21.75	21.53	2			3	3	22.85	22.75	22.70	1
		15	0	21.65	21.68	21.64	2			6	0	21.70	21.67	21.69	2
	64QAM	1	0	21.77	21.72	21.75	2		64QAM	1	0	21.71	21.74	21.78	2
		1	7	21.77	21.78	21.72	2			1	2	21.86	21.78	21.82	2
		1	14	21.70	21.73	21.63	2			1	5	21.79	21.70	21.72	2
		8	0	20.73	20.63	20.73	3			3	0	21.76	21.72	21.72	2
		8	3	20.73	20.84	20.73	3			3	1	21.78	21.75	21.72	2
		8	7	20.68	20.71	20.57	3			3	3	21.71	21.70	21.80	2
		15	0	20.62	20.57	20.65	3			6	0	20.69	20.78	20.62	3

LTE Band 66																
EUT with Power Reduction (P-Sensor Triggered)																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		132072	132322	132572				Channel		132047	132322	132597	
		Frequency (MHz)		1720.0	1745.0	1770.0				Frequency (MHz)		1717.5	1745.0	1772.5	
20M	QPSK	1	0	17.27	17.24	17.18	0	15M	QPSK	1	0	17.25	17.22	17.17	0
		1	50	17.24	17.21	17.15	0			1	37	17.22	17.15	17.12	0
		1	99	17.22	17.19	17.13	0			1	74	17.18	17.19	17.07	0
		50	0	16.20	16.17	16.11	1			36	0	16.16	16.14	16.02	1
		50	25	16.11	16.08	16.02	1			36	19	16.04	16.06	15.97	1
		50	50	16.06	16.03	15.97	1			36	39	16.04	16.03	15.90	1
		100	0	16.11	16.08	16.02	1			75	0	16.07	16.06	15.96	1
	16QAM	1	0	16.21	16.14	16.10	1		16QAM	1	0	16.19	16.05	16.01	1
		1	50	16.16	16.17	16.14	1			1	37	16.19	16.12	16.07	1
		1	99	16.14	16.09	16.03	1			1	74	16.09	16.01	16.09	1
		50	0	15.17	15.14	15.05	2			36	0	15.09	15.07	14.94	2
		50	25	15.01	15.00	15.01	2			36	19	15.08	14.89	14.90	2
		50	50	14.99	15.03	14.93	2			36	39	14.98	14.85	14.91	2
		100	0	15.04	14.98	14.95	2			75	0	14.99	14.99	14.94	2
	64QAM	1	0	15.27	15.24	15.13	2		64QAM	1	0	15.21	15.07	15.11	2
		1	50	15.16	15.11	15.06	2			1	37	15.17	15.14	15.13	2
		1	99	15.19	15.12	15.06	2			1	74	15.10	15.09	15.02	2
		50	0	14.16	14.12	14.11	3			36	0	14.07	14.08	14.00	3
		50	25	14.03	13.99	14.00	3			36	19	14.00	13.98	13.87	3
		50	50	14.01	13.94	13.93	3			36	39	13.91	13.94	13.87	3
		100	0	14.11	14.00	13.95	3			75	0	14.05	13.94	13.95	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		132022	132322	132622				Channel		131997	132322	132647	
		Frequency (MHz)		1715.0	1745.0	1775.0				Frequency (MHz)		1712.5	1745.0	1777.5	
10M	QPSK	1	0	17.09	17.11	17.03	0	5M	QPSK	1	0	17.07	17.16	17.08	0
		1	24	17.08	17.10	16.99	0			1	12	17.07	17.05	17.01	0
		1	49	17.09	17.09	17.02	0			1	24	17.13	17.16	16.92	0
		25	0	16.17	16.06	16.01	1			12	0	16.07	16.17	16.00	1
		25	12	15.95	15.96	15.92	1			12	6	15.97	16.00	15.89	1
		25	25	15.95	15.85	15.85	1			12	13	15.92	15.89	15.76	1
		50	0	15.93	15.95	15.90	1			25	0	16.02	15.96	15.76	1
	16QAM	1	0	16.06	16.17	15.93	1		16QAM	1	0	16.06	16.02	16.06	1
		1	24	16.15	16.06	16.01	1			1	12	16.18	16.14	15.93	1
		1	49	16.08	16.09	15.98	1			1	24	16.18	15.92	15.93	1
		25	0	15.06	14.94	15.00	2			12	0	15.05	14.98	14.83	2
		25	12	14.97	14.96	14.80	2			12	6	15.00	15.00	14.91	2
		25	25	14.85	14.80	14.74	2			12	13	14.91	14.83	14.93	2
		50	0	14.89	14.86	14.80	2			25	0	14.94	14.88	14.79	2
	64QAM	1	0	15.05	15.14	15.08	2		64QAM	1	0	15.01	15.08	15.01	2
		1	24	15.07	15.03	15.04	2			1	12	15.08	15.00	14.97	2
		1	49	15.01	14.93	14.95	2			1	24	14.94	14.98	15.00	2
		25	0	14.12	14.05	14.02	3			12	0	14.06	14.05	13.91	3
		25	12	14.01	13.94	13.88	3			12	6	13.85	13.88	13.68	3
		25	25	13.84	14.01	13.91	3			12	13	13.92	13.79	13.81	3
		50	0	13.93	13.94	13.83	3			25	0	13.93	13.90	13.82	3
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		131987	132322	132657				Channel		131979	132322	132665	
		Frequency (MHz)		1711.5	1745.5	1778.5				Frequency (MHz)		1710.7	1745.0	1779.3	
3M	QPSK	1	0	17.22	17.10	16.98	0	1.4M	QPSK	1	0	17.23	17.11	17.06	0
		1	7	17.13	17.05	16.99	0			1	2	17.09	17.11	17.02	0
		1	14	17.05	17.09	17.04	0			1	5	17.11	17.10	16.95	0
		8	0	16.01	15.92	15.93	1			3	0	17.11	16.93	16.88	0
		8	3	15.93	15.98	15.92	1			3	1	17.01	16.90	16.95	0
		8	7	16.00	15.89	15.79	1			3	3	17.02	16.90	16.83	0
		15	0	15.98	15.91	16.01	1			6	0	16.01	15.99	15.82	1
	16QAM	1	0	16.16	16.05	15.97	1		16QAM	1	0	16.16	16.04	15.97	1
		1	7	16.03	16.03	16.02	1			1	2	15.97	16.08	15.96	1
		1	14	15.97	16.03	15.91	1			1	5	16.16	16.11	16.08	1
		8	0	14.96	14.92	14.95	2			3	0	15.98	16.06	16.02	1
		8	3	14.93	14.75	14.76	2			3	1	15.90	15.98	15.98	1
		8	7	14.87	14.78	14.78	2			3	3	15.87	15.86	15.69	1
		15	0	14.89	14.97	14.82	2			6	0	14.87	14.83	14.85	2
	64QAM	1	0	15.05	15.11	15.03	2		64QAM	1	0	15.18	15.00	15.02	2
		1	7	15.00	15.03	15.00	2			1	2	15.14	15.16	14.89	2
		1	14	14.98	14.98	14.98	2			1	5	15.05	15.10	14.89	2
		8	0	14.00	14.06	13.90	3			3	0	15.03	15.00	14.96	2
		8	3	14.01	13.91	13.94	3			3	1	14.92	14.88	14.85	2
		8	7	13.82	13.94	13.84	3			3	3	14.81	14.87	14.86	2
		15	0	13.97	13.90	13.82	3			6	0	13.89	13.98	13.84	3

4.7 SAR Testing Results

4.7.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

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

(1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

(2) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz

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

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

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

<KDB 941225 D01, 3G SAR Measurement Procedures>

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

4.7.2 SAR Results for Body Exposure Condition (Test Separation Distance is 0 mm)

Plot No.	Band	Mode	Test Position	Ch.	P-Sensor	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	Bottom	9400	w/	17.5	17.24	1.06	-0.07	0.716	0.76
01	WCDMA II	RMC12.2K	Bottom	9262	w/	17.5	17.01	1.12	-0.10	0.732	**0.82**
	WCDMA II	RMC12.2K	Bottom	9538	w/	17.5	17.18	1.08	-0.08	0.671	0.72
02	WCDMA IV	RMC12.2K	Bottom	1413	w/	17.5	17.08	1.10	-0.08	0.921	**1.01**
	WCDMA IV	RMC12.2K	Bottom	1312	w/	17.5	17.04	1.11	0.14	0.905	1.00
	WCDMA IV	RMC12.2K	Bottom	1513	w/	17.5	17.05	1.11	-0.19	0.888	0.99
	WCDMA IV	RMC12.2K	Bottom	1413	w/	17.5	17.08	1.10	-0.12	0.907	1.00
03	WCDMA V	RMC12.2K	Bottom	4132	w/	21.5	21.49	1.00	-0.16	0.666	**0.67**
	WCDMA V	RMC12.2K	Bottom	4182	w/	21.5	21.46	1.01	0.00	0.584	0.59
	WCDMA V	RMC12.2K	Bottom	4233	w/	21.5	21.47	1.01	-0.11	0.538	0.54

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	P-Sensor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
04	LTE 4	QPSK20M	Bottom	20300	1	0	w/	17.5	17.33	1.04	-0.07	0.884	**0.92**
	LTE 4	QPSK20M	Bottom	20300	50	0	w/	16.5	16.12	1.09	0.06	0.684	0.75
	LTE 4	QPSK20M	Bottom	20050	1	0	w/	17.5	17.10	1.10	-0.19	0.809	0.89
	LTE 4	QPSK20M	Bottom	20175	1	0	w/	17.5	17.16	1.08	-0.05	0.846	0.91
	LTE 4	QPSK20M	Bottom	20300	100	0	w/	16.5	16.09	1.10	0.06	0.626	0.69
	LTE 4	QPSK20M	Bottom	20300	1	0	w/	17.5	17.33	1.04	0.06	0.862	0.90
	LTE 5	QPSK10M	Bottom	20525	1	0	w/	21.0	20.81	1.04	0.11	0.466	0.48
	LTE 5	QPSK10M	Bottom	20525	25	0	w/	20.0	19.76	1.06	0.00	0.366	0.39
05	LTE 5	QPSK10M	Bottom	20450	1	0	w/	21.0	20.76	1.06	-0.05	0.507	**0.54**
	LTE 5	QPSK10M	Bottom	20600	1	0	w/	21.0	20.74	1.06	0.15	0.444	0.47
06	LTE 7	QPSK20M	Bottom	21350	1	0	w/	17.0	16.98	1.00	-0.12	1.04	**1.04**
	LTE 7	QPSK20M	Bottom	21350	50	0	w/	16.0	15.98	1.00	-0.13	0.805	0.81
	LTE 7	QPSK20M	Bottom	20850	1	0	w/	17.0	16.86	1.03	-0.05	0.98	1.01
	LTE 7	QPSK20M	Bottom	21100	1	0	w/	17.0	16.97	1.01	0.03	1.03	1.04
	LTE 7	QPSK20M	Bottom	20850	50	0	w/	16.0	15.86	1.03	0.09	0.761	0.78
	LTE 7	QPSK20M	Bottom	21100	50	0	w/	16.0	15.97	1.01	0.01	0.788	0.80
	LTE 7	QPSK20M	Bottom	21350	100	0	w/	16.0	15.97	1.01	-0.13	0.783	0.79
	LTE 7	QPSK20M	Bottom	21350	1	0	w/	17.0	16.98	1.00	0.08	1.02	1.02
07	LTE 12	QPSK10M	Bottom	23095	1	0	w/	21.5	21.34	1.04	-0.03	0.763	**0.79**
	LTE 12	QPSK10M	Bottom	23095	25	0	w/	20.5	20.20	1.07	0.18	0.582	0.62
	LTE 12	QPSK10M	Bottom	23060	1	0	w/	21.5	21.22	1.07	-0.04	0.734	0.79
	LTE 12	QPSK10M	Bottom	23130	1	0	w/	21.5	21.31	1.04	-0.05	0.745	0.77
08	LTE 13	QPSK10M	Bottom	23230	1	0	w/	21.5	21.12	1.09	-0.04	0.753	**0.82**
	LTE 13	QPSK10M	Bottom	23230	25	0	w/	20.5	20.18	1.08	0.03	0.605	0.65
	LTE 13	QPSK10M	Bottom	23230	50	0	w/	20.5	20.17	1.08	0.03	0.603	0.65
09	LTE 14	QPSK10M	Bottom	23330	1	49	w/	21.5	21.29	1.05	-0.05	0.710	**0.75**
	LTE 14	QPSK10M	Bottom	23330	25	25	w/	20.5	20.27	1.05	-0.09	0.570	0.60
10	LTE 25	QPSK20M	Bottom	26140	1	0	w/	17.5	17.23	1.06	-0.10	0.781	**0.83**
	LTE 25	QPSK20M	Bottom	26140	50	0	w/	16.5	16.20	1.07	0.11	0.614	0.66
	LTE 25	QPSK20M	Bottom	26365	1	0	w/	17.5	17.17	1.08	-0.05	0.726	0.78
	LTE 25	QPSK20M	Bottom	26590	1	0	w/	17.5	17.18	1.08	-0.14	0.701	0.76
	LTE 25	QPSK20M	Bottom	26140	100	0	w/	16.5	16.15	1.08	0.11	0.566	0.61
	LTE 26	QPSK15M	Bottom	26965	1	0	w/	21.0	20.81	1.04	0.10	0.523	0.54
	LTE 26	QPSK15M	Bottom	26965	36	0	w/	20.0	19.73	1.06	-0.11	0.397	0.42
11	LTE 26	QPSK15M	Bottom	26765	1	0	w/	21.0	20.76	1.06	-0.02	0.599	**0.63**
	LTE 26	QPSK15M	Bottom	26865	1	0	w/	21.0	20.73	1.06	0.17	0.571	0.61
12	LTE 30	QPSK10M	Bottom	27710	1	0	w/	17.0	16.93	1.02	-0.02	0.847	**0.86**
	LTE 30	QPSK10M	Bottom	27710	25	0	w/	16.0	15.91	1.02	0.13	0.657	0.67
	LTE 30	QPSK10M	Bottom	27710	50	0	w/	16.0	15.90	1.02	0.13	0.627	0.64
	LTE 30	QPSK10M	Bottom	27710	1	0	w/	17.0	16.93	1.02	0.11	0.828	0.84
13	LTE 38	QPSK20M	Bottom	38150	1	0	w/	18.0	17.96	1.01	-0.06	0.879	**0.89**
	LTE 38	QPSK20M	Bottom	38150	50	0	w/	17.0	16.83	1.04	-0.12	0.698	0.73
	LTE 38	QPSK20M	Bottom	37850	1	0	w/	18.0	17.87	1.03	-0.18	0.829	0.85
	LTE 38	QPSK20M	Bottom	38000	1	0	w/	18.0	17.79	1.05	0.18	0.817	0.86
	LTE 38	QPSK20M	Bottom	38150	100	0	w/	17.0	16.86	1.03	-0.12	0.671	0.69
	LTE 38	QPSK20M	Bottom	38150	1	0	w/	18.0	17.96	1.01	0.02	0.856	0.86

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	P-Sensor	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	Bottom	40185	1	0	w/	17.0	16.97	1.01	0.07	0.775	0.78
	LTE 41	QPSK20M	Bottom	40185	50	0	w/	16.0	15.93	1.02	0.14	0.608	0.62
	LTE 41	QPSK20M	Bottom	39750	1	0	w/	17.0	16.95	1.01	0.06	0.748	0.76
	LTE 41	QPSK20M	Bottom	40620	1	0	w/	17.0	16.76	1.06	0.01	0.737	0.78
	LTE 41	QPSK20M	Bottom	41055	1	0	w/	17.0	16.88	1.03	-0.05	0.844	0.87
14	LTE 41	QPSK20M	Bottom	41490	1	0	w/	17.0	16.77	1.05	-0.02	1.02	**1.07**
	LTE 41	QPSK20M	Bottom	40185	100	0	w/	16.0	15.88	1.03	0.14	0.46	0.47
	LTE 41	QPSK20M	Bottom	41490	1	0	w/	17.0	16.77	1.05	0.16	0.982	1.03
	LTE 66	QPSK20M	Bottom	132072	1	0	w/	17.5	17.27	1.05	0.11	0.636	0.67
	LTE 66	QPSK20M	Bottom	132072	50	0	w/	16.5	16.20	1.07	-0.05	0.459	0.49
15	LTE 66	QPSK20M	Bottom	132322	1	0	w/	17.5	17.24	1.06	-0.12	0.652	**0.69**
	LTE 66	QPSK20M	Bottom	132572	1	0	w/	17.5	17.18	1.08	0.05	0.613	0.66

<WLAN module (AX201D2W)>

Plot No.	Band	Mode	Test Position	Ch.	EUT Config.	Ant Status	Duty Cycle	Crest Factor	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	WLAN2.4G	802.11b	Bottom	6	1	Ant 1	100.00	1.00	14.0	14.00	1.00	-0.05	0.430	**0.43**
17	WLAN2.4G	802.11b	Bottom	6	2	Ant 1	100.00	1.00	14.0	14.00	1.00	-0.13	0.464	**0.46**
18	WLAN5.3G	802.11a	Bottom	60	1	Ant 1	97.20	1.03	13.5	13.50	1.00	-0.05	0.404	**0.42**
19	WLAN5.3G	802.11a	Bottom	60	2	Ant 0	97.20	1.03	13.5	13.50	1.00	-0.18	0.278	**0.29**
20	WLAN5.6G	802.11a	Bottom	124	1	Ant 1	97.20	1.03	13.5	13.50	1.00	-0.07	0.449	**0.46**
21	WLAN5.6G	802.11a	Bottom	124	2	Ant 1	97.20	1.03	13.5	13.50	1.00	0.17	0.225	**0.23**
22	WLAN5.8G	802.11a	Bottom	165	1	Ant 1	97.20	1.03	13.5	13.50	1.00	0.02	0.403	**0.42**
23	WLAN5.8G	802.11a	Bottom	157	2	Ant 1	97.20	1.03	13.5	13.50	1.00	-0.10	0.303	**0.31**
24	BT	BDR	Bottom	39	1	Ant 1	76.80	1.30	12.0	11.47	1.13	-0.08	0.010	**0.01**
25	BT	BDR	Bottom	39	2	Ant 1	76.80	1.30	12.0	11.47	1.13	-0.17	0.00831	**0.01**

Note: The SAR testing above was verified based on the worst case of module report. (RF Exposure Lab report no.: SAR.20190619)

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.	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 IV	RMC12.2K	Bottom	1413	0.921	0.907	1.02	N/A	N/A	N/A	N/A
LTE 4	QPSK20M	Bottom	20300	0.884	0.862	1.03	N/A	N/A	N/A	N/A
LTE 7	QPSK20M	Bottom	21350	1.04	1.02	1.02	N/A	N/A	N/A	N/A
LTE 30	QPSK10M	Bottom	27710	0.847	0.828	1.02	N/A	N/A	N/A	N/A
LTE 38	QPSK20M	Bottom	38150	0.879	0.856	1.03	N/A	N/A	N/A	N/A
LTE 41	QPSK20M	Bottom	41490	1.02	0.982	1.04	N/A	N/A	N/A	N/A

4.7.4 Simultaneous Multi-band Transmission Evaluation

<Possibilities of Simultaneous Transmission>

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

<L860-GL + AX201D2W>

Simultaneous TX Combination	Capable Transmit Configurations	Body Exposure Condition
1	WWAN + WLAN2.4G_Ant0	Yes
2	WWAN + WLAN2.4G_Ant1	Yes
3	WWAN + WLAN5G_Ant0	Yes
4	WWAN + WLAN5G_Ant1	Yes
5	WWAN + BT_Ant1	Yes
6	WWAN + WLAN2.4G MIMO	Yes
7	WWAN + WLAN5G MIMO	Yes
8	WWAN + WLAN2.4G_Ant0 + BT_Ant1	Yes
9	WWAN + WLAN5G_Ant0 + BT_Ant1	Yes
10	WWAN + WLAN5G MIMO + BT_Ant1	Yes

Note:

1. The WLAN 2.4G and WLAN 5G cannot transmit simultaneously.
2. Plot1 is covered by plot8
3. Plot3 is covered by plot9
4. Plot5 is covered by plot10
5. Plot7 is covered by plot10

<Estimated SAR Calculation>

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

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

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

<AX201D2W>

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Estimated SAR (W/kg)
WLAN (DTS)	2.462	14.0	Body	5	0.4
WLAN (NII)	5.24	13.5	Body	5	0.4
WLAN (NII)	5.32	13.5	Body	5	0.4
WLAN (NII)	5.72	13.5	Body	5	0.4
WLAN (NII)	5.825	13.5	Body	5	0.4
BT (DTS)	2.48	12.0	Body	5	0.4

Note:

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

<SAR Summation Analysis>

This evaluation is combined other operating band data of the End-product from RF Exposure Lab report (Report no.: SAR.20190619, Dates of Test: Jun. 19 ~ Jun. 20, 2019 for WLAN / BT module AX201D2W). The SAR summation of maximum SAR of WWAN and WLAN for each position is under the SAR limitation (2.0 W/kg). Therefore, the simultaneous transmission condition complies with the SAR criterion.

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

<EUT 1>

Band	Position	1	3	4	6	7	9	1+4	1+3+4	1+7	1+3+9	1+6+9	1+6+7+9
		WWAN Ant 0	WLAN 2.4GHz Ant 0	WLAN 2.4GHz Ant 1	WLAN 5GHz Ant 0	WLAN 5GHz Ant 1	BT Ant 1	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg
		1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg						
WCDMA II	Bottom	0.82	0.46	0.46	0.33	0.49	0.01	1.28	**1.74**	1.31	1.29	1.16	**1.65**
WCDMA IV	Bottom	1.01	0.46	0.46	0.33	0.49	0.01	1.47	**1.93**	1.50	1.48	1.35	**1.84**
WCDMA V	Bottom	0.67	0.46	0.46	0.33	0.49	0.01	1.13	1.59	1.16	1.14	1.01	1.50
LTE 4	Bottom	0.92	0.46	0.46	0.33	0.49	0.01	1.38	**1.84**	1.41	1.39	1.26	**1.75**
LTE 5	Bottom	0.54	0.46	0.46	0.33	0.49	0.01	1.00	1.46	1.03	1.01	0.88	1.37
LTE 7	Bottom	1.04	0.46	0.46	0.33	0.49	0.01	1.50	**1.96**	1.53	1.51	1.38	**1.87**
LTE 12	Bottom	0.79	0.46	0.46	0.33	0.49	0.01	1.25	**1.71**	1.28	1.26	1.13	**1.62**
LTE 13	Bottom	0.82	0.46	0.46	0.33	0.49	0.01	1.28	**1.74**	1.31	1.29	1.16	**1.65**
LTE 14	Bottom	0.75	0.46	0.46	0.33	0.49	0.01	1.21	**1.67**	1.24	1.22	1.09	1.58
LTE 25	Bottom	0.83	0.46	0.46	0.33	0.49	0.01	1.29	**1.75**	1.32	1.30	1.17	**1.66**
LTE 26	Bottom	0.63	0.46	0.46	0.33	0.49	0.01	1.09	1.55	1.12	1.10	0.97	1.46
LTE 30	Bottom	0.86	0.46	0.46	0.33	0.49	0.01	1.32	**1.78**	1.35	1.33	1.20	**1.69**
LTE 38	Bottom	0.89	0.46	0.46	0.33	0.49	0.01	1.35	**1.81**	1.38	1.36	1.23	**1.72**
LTE 41	Bottom	1.07	0.46	0.46	0.33	0.49	0.01	1.53	**1.99**	1.56	1.54	1.41	**1.90**
LTE 66	Bottom	0.69	0.46	0.46	0.33	0.49	0.01	1.15	**1.61**	1.18	1.16	1.03	1.52

<EUT 2>

Band	Position	1	3	4	6	7	9	1+4	1+3+4	1+7	1+3+9	1+6+9	1+6+7+9
		WWAN Ant 0	WLAN 2.4GHz Ant 0	WLAN 2.4GHz Ant 1	WLAN 5GHz Ant 0	WLAN 5GHz Ant 1	BT Ant 1	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg
		1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg						
WCDMA II	Bottom	0.82	0.37	0.50	0.40	0.33	0.01	1.32	**1.69**	1.15	1.20	1.23	1.56
WCDMA IV	Bottom	1.01	0.37	0.50	0.40	0.33	0.01	1.51	**1.88**	1.34	1.39	1.42	**1.75**
WCDMA V	Bottom	0.67	0.37	0.50	0.40	0.33	0.01	1.17	1.54	1.00	1.05	1.08	1.41
LTE 4	Bottom	0.92	0.37	0.50	0.40	0.33	0.01	1.42	**1.79**	1.25	1.30	1.33	**1.66**
LTE 5	Bottom	0.54	0.37	0.50	0.40	0.33	0.01	1.04	1.41	0.87	0.92	0.95	1.28
LTE 7	Bottom	1.04	0.37	0.50	0.40	0.33	0.01	1.54	**1.91**	1.37	1.42	1.45	**1.78**
LTE 12	Bottom	0.79	0.37	0.50	0.40	0.33	0.01	1.29	**1.66**	1.12	1.17	1.20	1.53
LTE 13	Bottom	0.82	0.37	0.50	0.40	0.33	0.01	1.32	**1.69**	1.15	1.20	1.23	1.56
LTE 14	Bottom	0.75	0.37	0.50	0.40	0.33	0.01	1.25	**1.62**	1.08	1.13	1.16	1.49
LTE 25	Bottom	0.83	0.37	0.50	0.40	0.33	0.01	1.33	**1.70**	1.16	1.21	1.24	1.57
LTE 26	Bottom	0.63	0.37	0.50	0.40	0.33	0.01	1.13	1.50	0.96	1.01	1.04	1.37
LTE 30	Bottom	0.86	0.37	0.50	0.40	0.33	0.01	1.36	**1.73**	1.19	1.24	1.27	**1.60**
LTE 38	Bottom	0.89	0.37	0.50	0.40	0.33	0.01	1.39	**1.76**	1.22	1.27	1.30	**1.63**
LTE 41	Bottom	1.07	0.37	0.50	0.40	0.33	0.01	1.57	**1.94**	1.40	1.45	1.48	**1.81**
LTE 66	Bottom	0.69	0.37	0.50	0.40	0.33	0.01	1.19	1.56	1.02	1.07	1.10	1.43

<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.

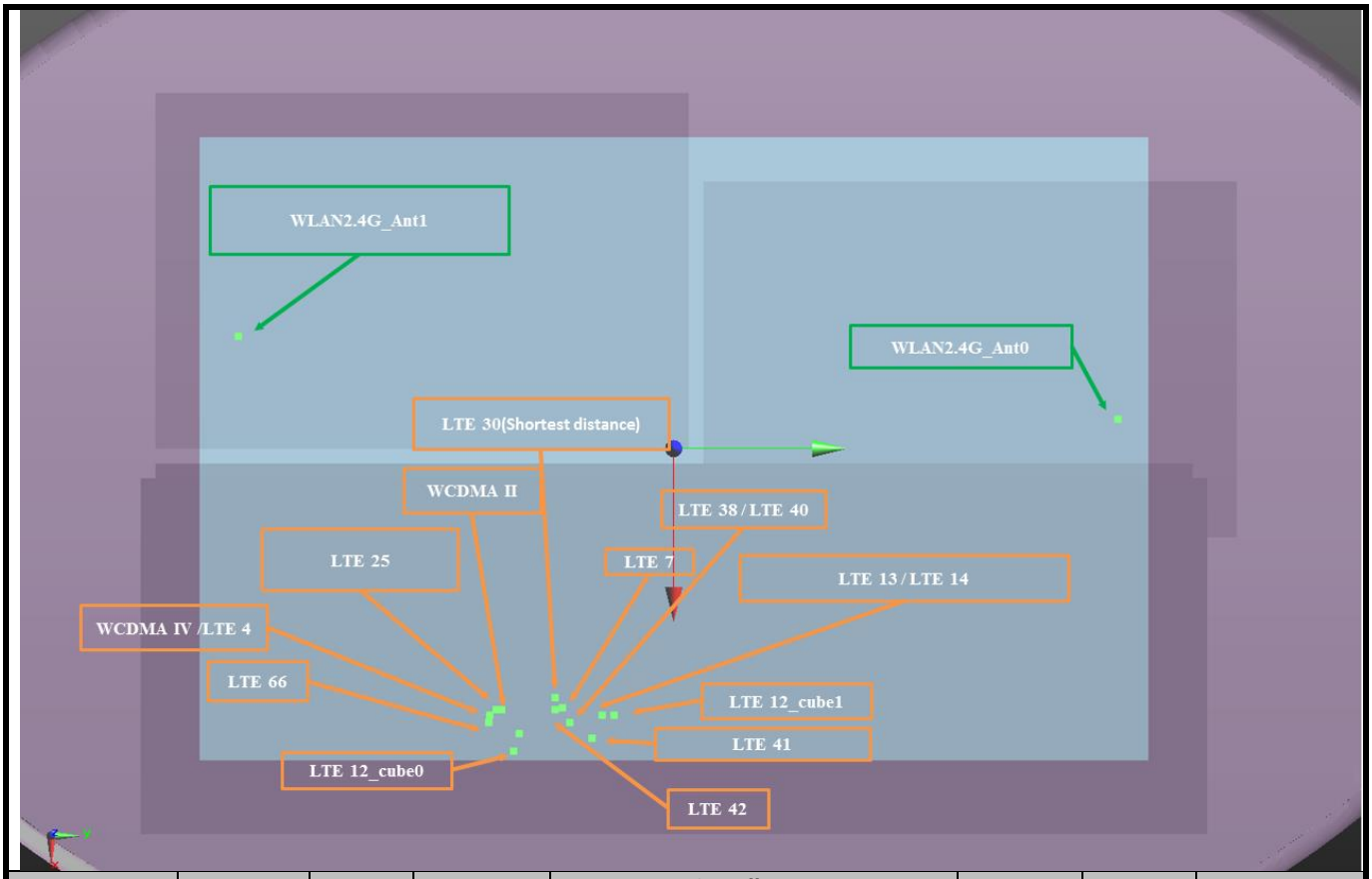
$$\text{SPLSR} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{R_i}$$

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.

For the evaluation of SPLSR, only the worst case of Simultaneous transmission SAR and the shortest distance between the peak point of WWAN and WLAN have been evaluated and recorded in the report. Based on the above factors, other SPLSR conditions all meets the limit.

<WWAN+WLAN2.4G Main+WLAN2.4G Aux>

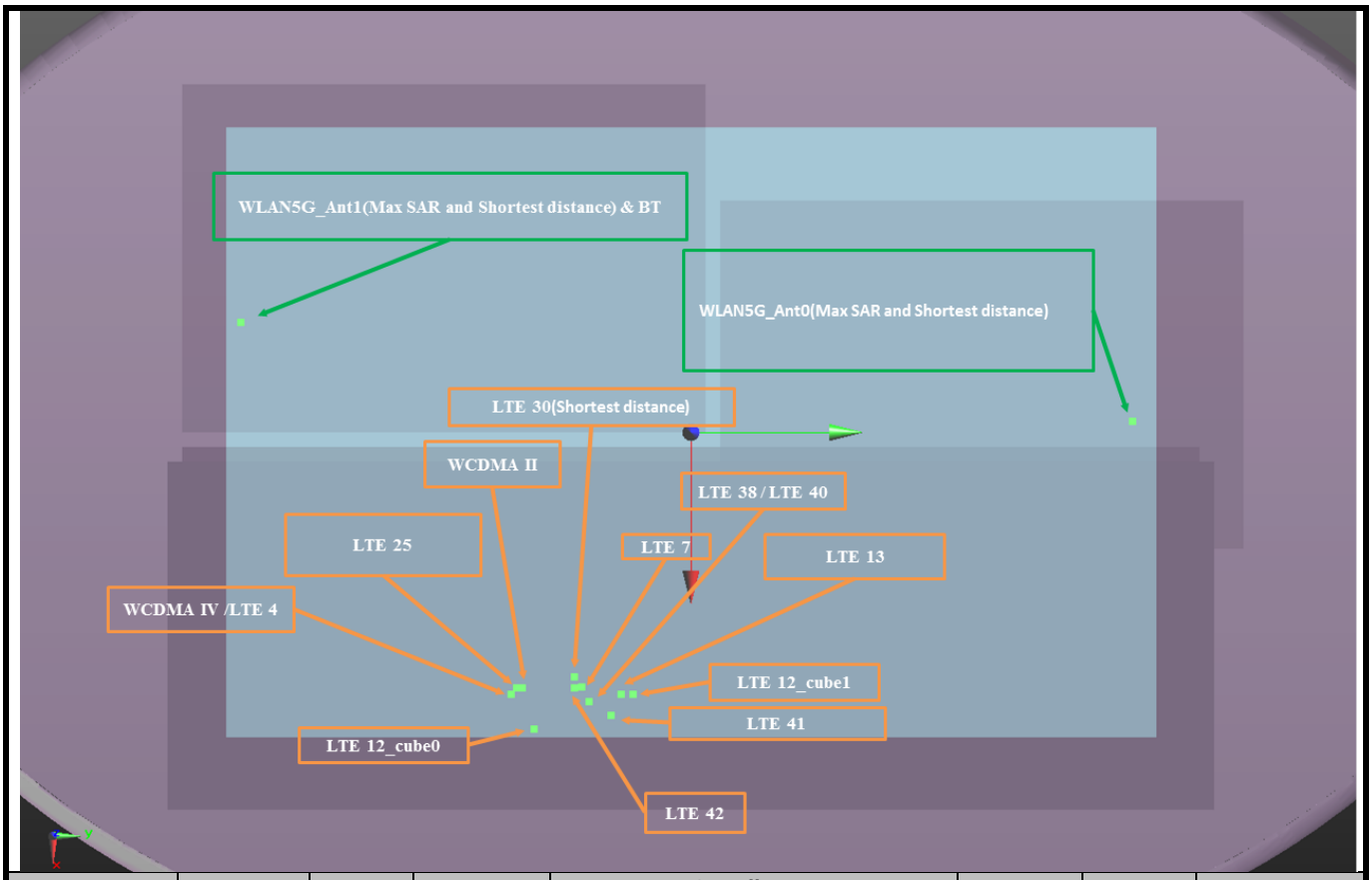


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WWAN (shortest distance with max SAR)	Body	Bottom	1.07	88.8	-40	-1.54	216.3	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Cube0			0.46	-8.4	153.2	-2.47			
WWAN (shortest distance with max SAR)	Body	Bottom	1.07	88.8	-40	-1.54	164.6	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Cube1			0.46	-34.8	-148.6	2.65			
802.11b Ch6_Cube0	Body	Bottom	0.46	-8.4	153.2	-2.47	303.0	0.00	SPLSR ≤ 0.04, Not required
802.11b Ch6_Cube1			0.46	-34.8	-148.6	2.65			

Note :

1. The SPLSR is evaluated by calculating the result with reference to the shortest distance of the hotspot and the maximum SAR.

<WWAN+WLAN5G Main+ WLAN5G Aux+ BT Aux>



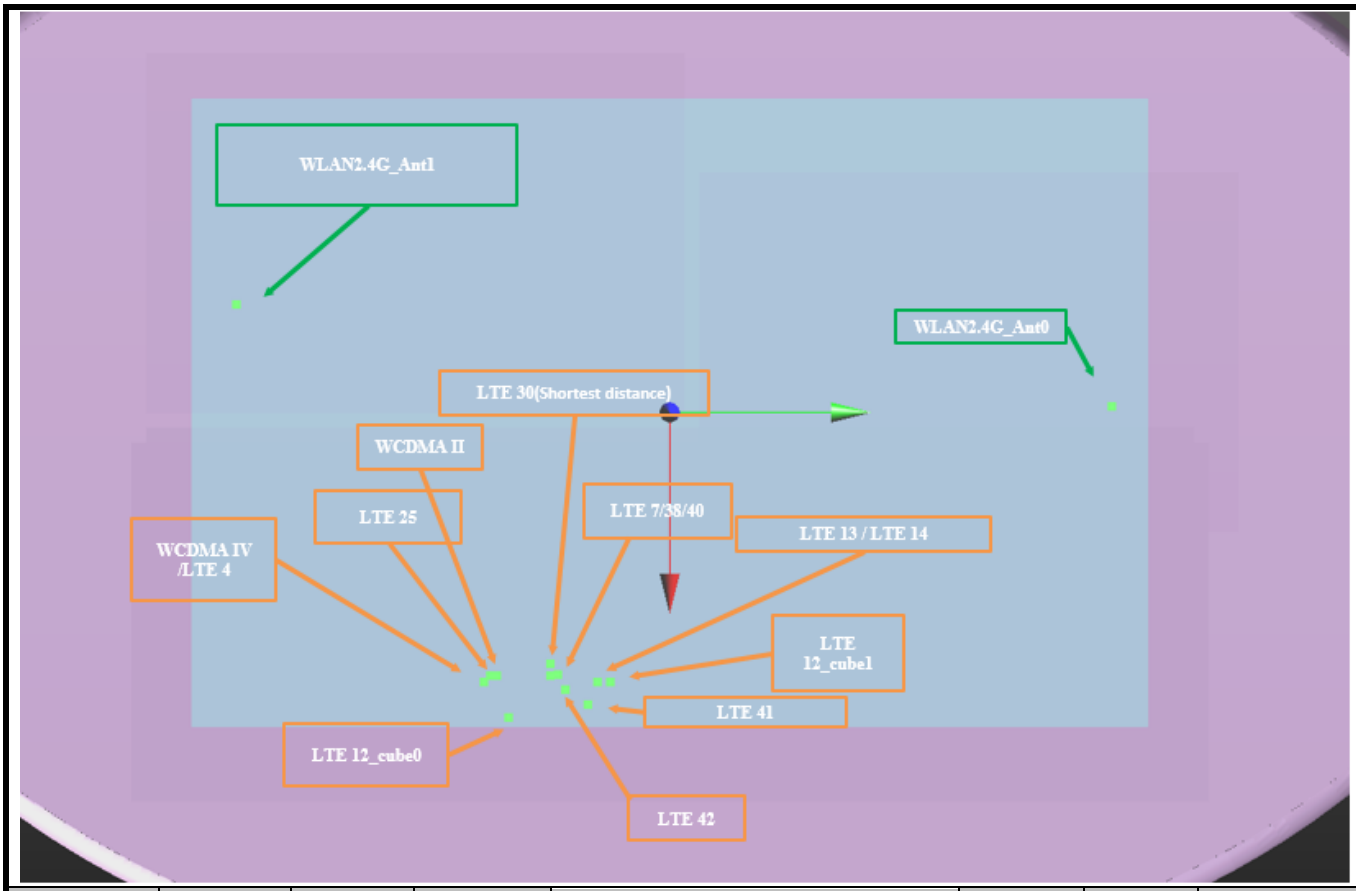
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WWAN (shortest distance with max SAR)	Body	Bottom	1.07	88.8	-40	-1.54	213.6	0.01	SPLSR ≤ 0.04, Not required
WLAN5G (shortest distance with max SAR)Ant0			0.33	-13.5	147.5	-2.63			
WWAN (shortest distance with max SAR)	Body	Bottom	1.07	88.8	-40	-1.54	171.6	0.01	SPLSR ≤ 0.04, Not required
WLAN5G (shortest distance with max SAR)Ant1 with BT			0.50	-38	-155.5	3.43			
WLAN5G (shortest distance with max SAR)Ant0	Body	Bottom	0.33	-13.5	147.5	-2.63	304.0	0.00	SPLSR ≤ 0.04, Not required
WLAN5G (shortest distance with max SAR)Ant1 with BT			0.50	-38	-155.5	3.43			

Note :

1. In MIMO mode, the worst SAR of Antenna 1 is max WLAN5G+BT.
2. The SPLSR is evaluated by calculating the result with reference to the shortest distance of the hotspot and the maximum SAR.

<EUT 2>

<WWAN+WLAN2.4G Main+WLAN2.4G Aux>

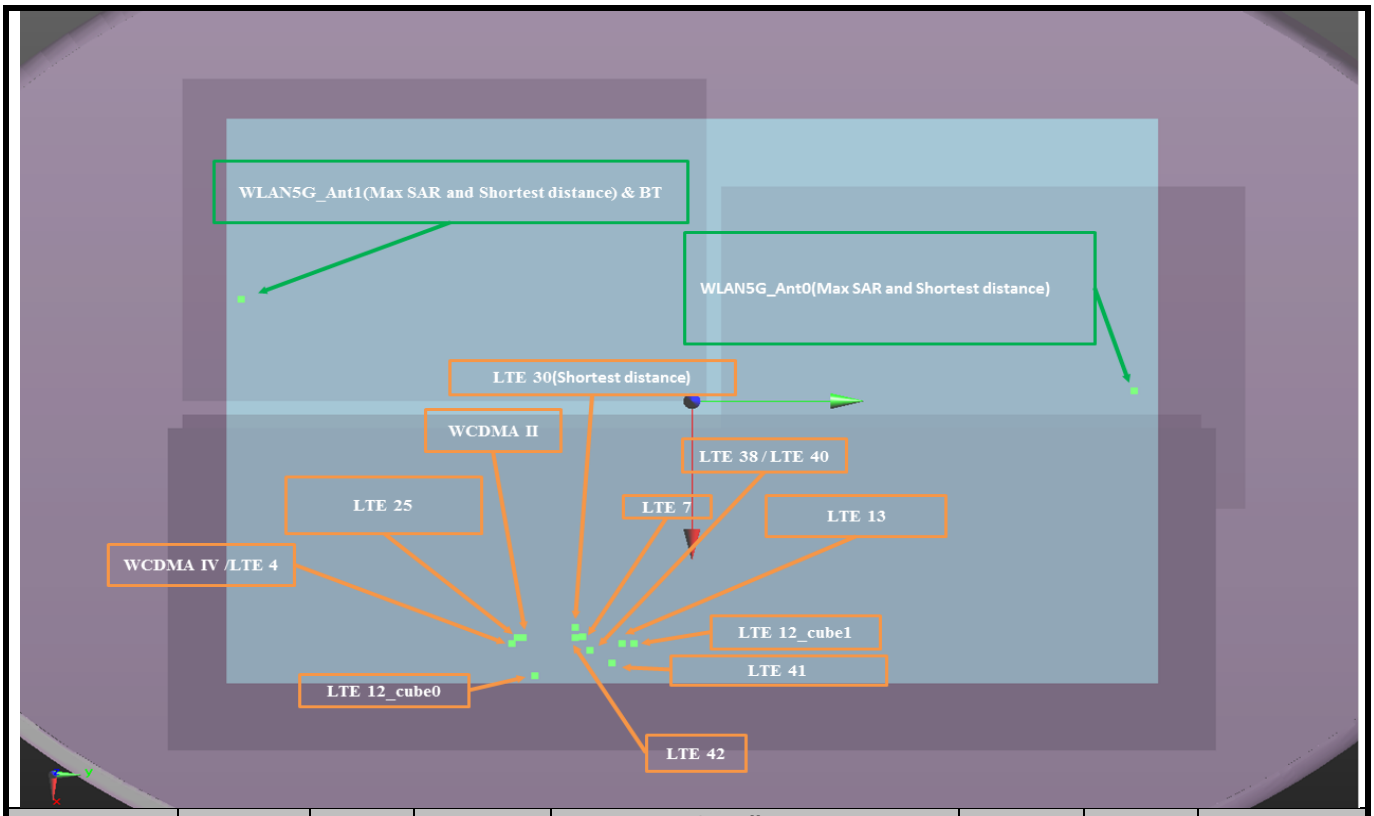


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WWAN (shortest distance with max SAR)	Body	Bottom	1.07	88.8	-40	-1.54	163.1	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Cube0			0.37	-36	-145	2.23			
WWAN (shortest distance with max SAR)	Body	Bottom	1.07	88.8	-40	-1.54	208.1	0.01	SPLSR ≤ 0.04, Not required
802.11b Ch6_Cube1			0.50	-3.6	146.4	2.07			
802.11b Ch6_Cube0	Body	Bottom	0.37	-36	-145	2.23	293.2	0.00	SPLSR ≤ 0.04, Not required
802.11b Ch6_Cube1			0.50	-3.6	146.4	2.07			

Note :

1. The SPLSR is evaluated by calculating the result with reference to the shortest distance of the hotspot and the maximum SAR.

<WWAN+WLAN5G Main+ WLAN5G Aux+ BT Aux>



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WWAN (shortest distance with max SAR)	Body	Bottom	1.07	88.8	-40	-1.54	211.4	0.01	SPLSR ≤ 0.04, Not required
WLAN5G (shortest distance with max SAR)Ant0			0.4	1.5	152.5	2.04			
WWAN (shortest distance with max SAR)	Body	Bottom	1.07	88.8	-40	-1.54	167.6	0.01	SPLSR ≤ 0.04, Not required
WLAN5G (shortest distance with max SAR)Ant1 with BT			0.34	-34.5	-153.5	2.79			
WLAN5G (shortest distance with max SAR)Ant0	Body	Bottom	0.4	1.5	152.5	2.04	308.1	0.00	SPLSR ≤ 0.04, Not required
WLAN5G (shortest distance with max SAR)Ant1 with BT			0.34	-34.5	-153.5	2.79			

Note :

1. In MIMO mode, the worst SAR of Antenna 1 is max WLAN5G+BT.
2. The SPLSR is evaluated by calculating the result with reference to the shortest distance of the hotspot and the maximum SAR.

Test Engineer：Sam Onn, and Isaac Liao

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1013	Aug. 23, 2018	1 Year
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 23, 2018	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Aug. 27, 2018	1 Year
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 25, 2019	1 Year
System Validation Dipole	SPEAG	D2300V2	1004	Jan. 28, 2019	1 Year
System Validation Dipole	SPEAG	D2450V2	737	Aug. 24, 2018	1 Year
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 24, 2018	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Mar. 21, 2019	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Mar. 29, 2019	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3650	Jul. 27, 2018	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7375	Dec. 13, 2018	1 Year
Data Acquisition Electronics	SPEAG	DAE4	861	May. 08, 2019	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1277	Jan. 24, 2019	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 25, 2019	1 Year
Universal Radio Communication Tester	Anritsu	MT8821C	6261786083	Dec. 11, 2018	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Mar. 26, 2019	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46104190	Apr. 16, 2019	1 Year
MXG Analong Signal Generator	Agilent	N5181A	MY50143868	Jul. 03, 2018	1 Year
				Jun. 27, 2019	1 Year
Power Meter	Anritsu	ML2495A	1218009	Jul. 03, 2018	1 Year
				Jun. 28, 2019	1 Year
Power Sensor	Anritsu	MA2411B	1207252	Jul. 03, 2018	1 Year
				Jun. 28, 2019	1 Year
Thermometer	YFE	YF-160A	130504591	Mar. 22, 2019	1 Year

6. Measurement Uncertainty

According to KDB 865664 D01, SAR measurement uncertainty analysis is required in SAR reports only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR, and ≥ 3.75 W/kg for 10-g SAR. The procedures described in IEEE Std 1528-2013 should be applied. The expanded SAR measurement uncertainty must be ≤ 30 %, for a confidence interval of k = 2. When the highest measured SAR within a frequency band is < 1.5 W/kg for 1-g and < 3.75 W/kg for 10-g, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. Hence, the measurement uncertainty analysis is not required in this SAR report because the test result met the condition.

7. Information of 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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Taiwan HsinChu EMC/RF/Telecom Lab:
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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.

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/22

System Check_H750_190622

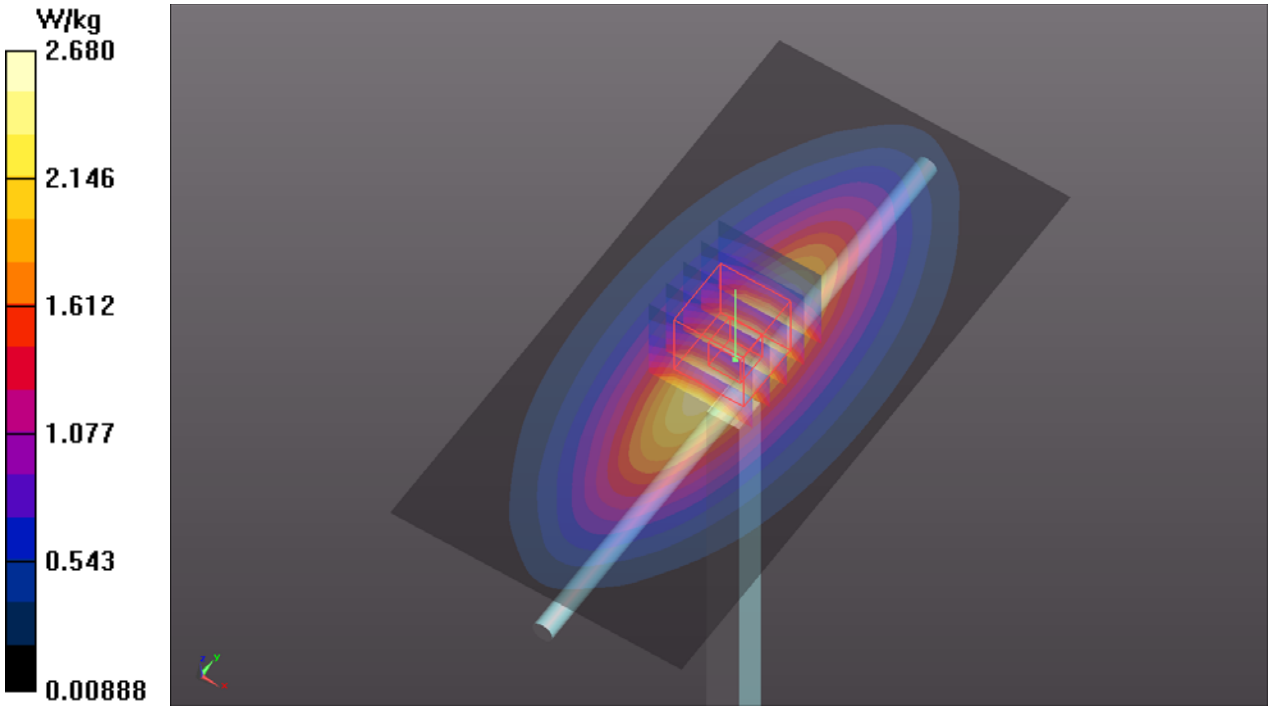
DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: H06T09N1_0622 Medium parameters used: f = 750 MHz; σ = 0.891 S/m; ε_r = 43.376; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(10.06, 10.06, 10.06); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Pin=250mW/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.68 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.72 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.01 W/kg
SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.32 W/kg
Maximum value of SAR (measured) = 2.68 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/21

System Check_H835_190621

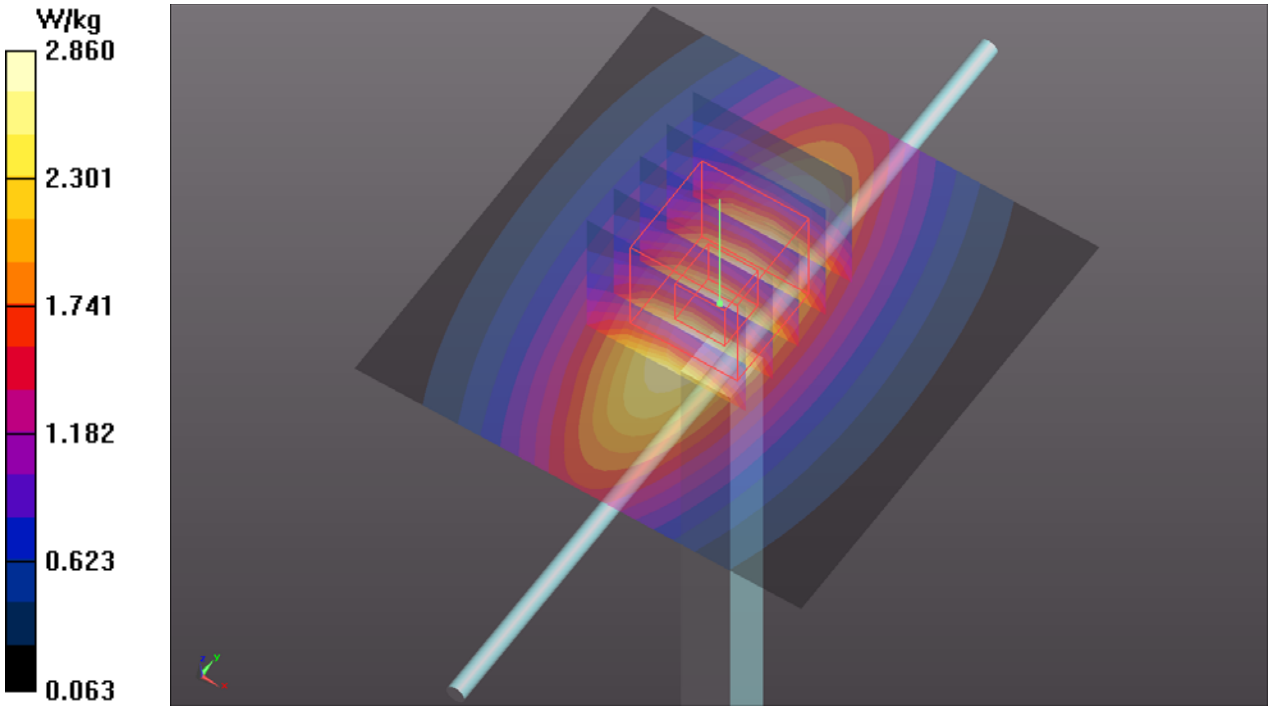
DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: H07T10N2_0621 Medium parameters used: f = 835 MHz; σ = 0.917 S/m; ε_r = 40.848; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.82, 9.82, 9.82); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.86 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.62 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.15 W/kg
SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.45 W/kg
Maximum value of SAR (measured) = 2.86 W/kg



System Check_H1750_190624

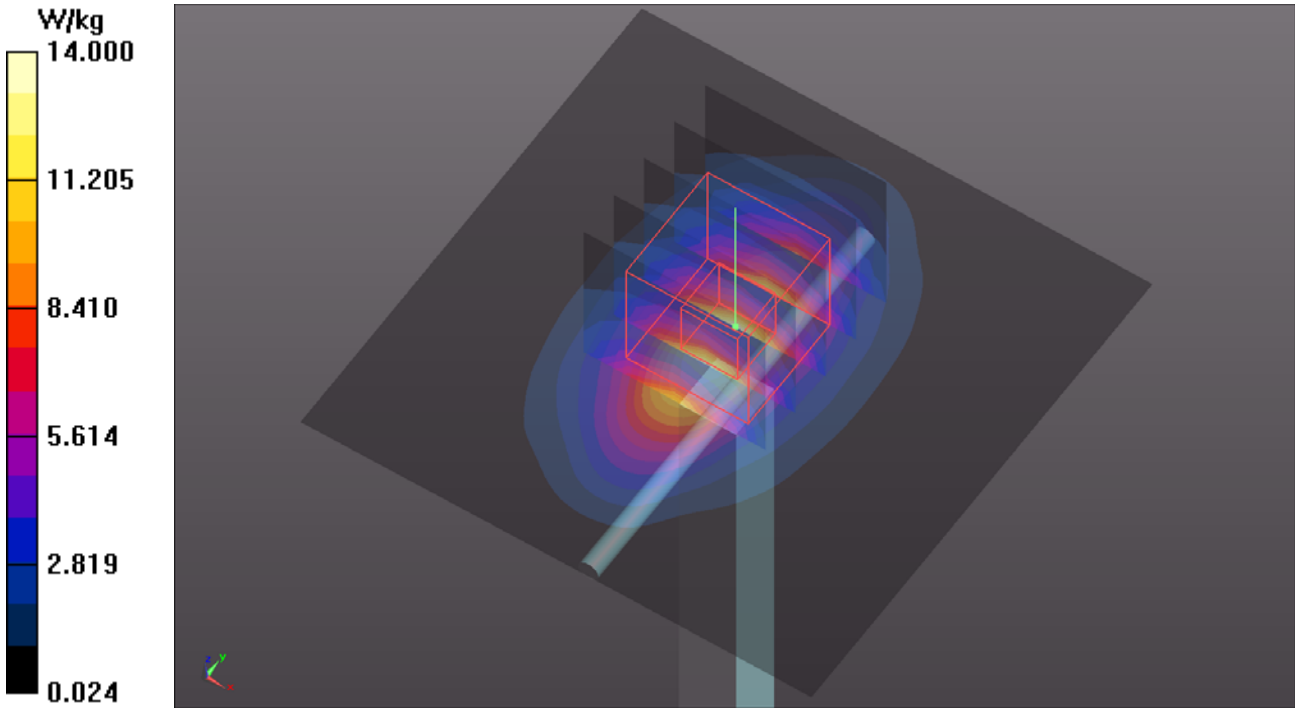
DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0624 Medium parameters used: f = 1750 MHz; σ = 1.328 S/m; ε_r = 40.136; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.8, 8.8, 8.8); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.0 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 101.7 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 17.0 W/kg
SAR(1 g) = 8.81 W/kg; SAR(10 g) = 4.65 W/kg
Maximum value of SAR (measured) = 13.9 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/21

System Check_H1900_190621

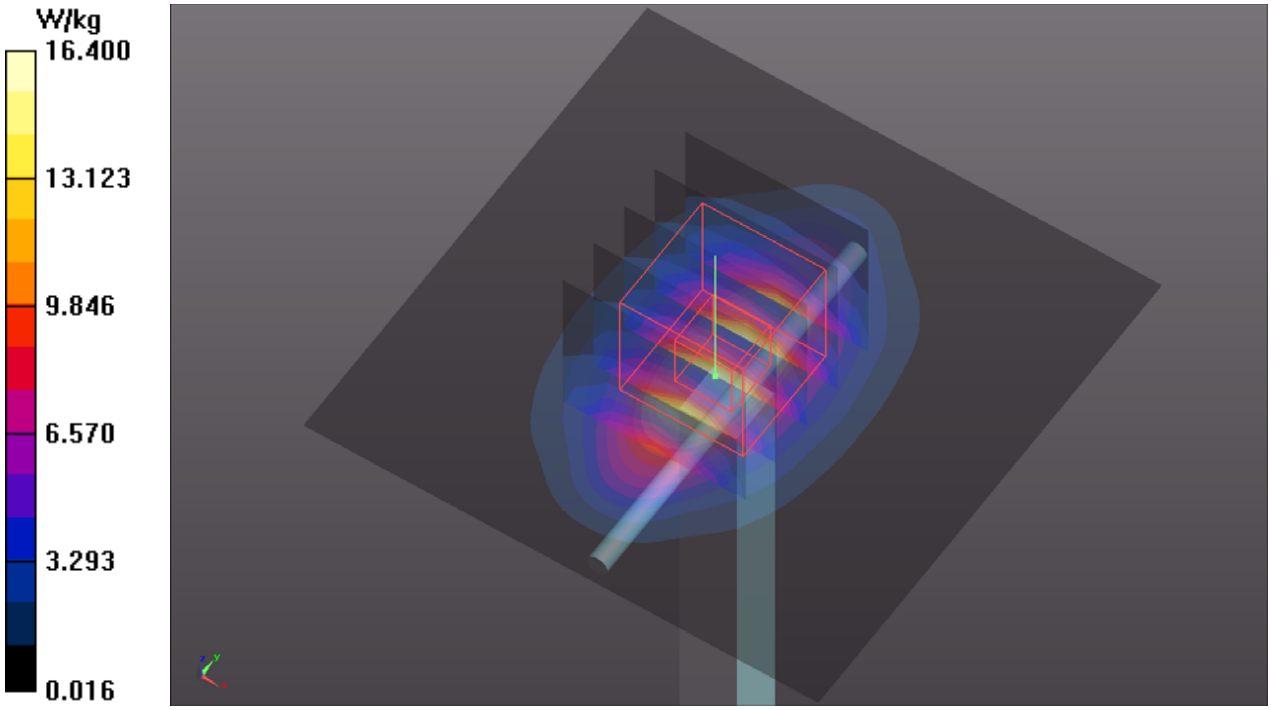
DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0621 Medium parameters used: f = 1900 MHz; σ = 1.451 S/m; ε_r = 38.696; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.25, 8.25, 8.25); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 16.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 102.6 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 19.3 W/kg
SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.4 W/kg
Maximum value of SAR (measured) = 16.1 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/21

System Check_H2300_190621

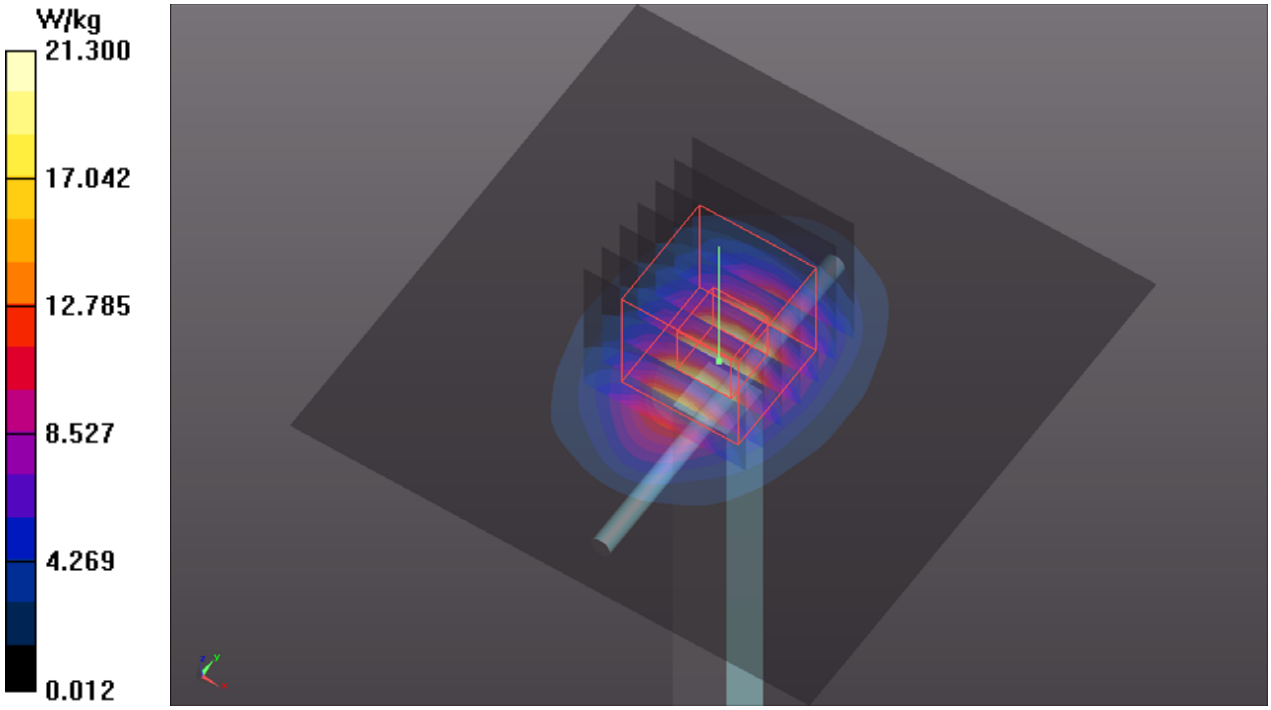
DUT: Dipole 2300 MHz; Type: D2300V2; SN: 1004

Communication System: CW; Frequency: 2300 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0621 Medium parameters used: f = 2300 MHz; σ = 1.713 S/m; ε_r = 39.441; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8, 8, 8); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 21.3 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 114.8 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 26.4 W/kg
SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.96 W/kg
Maximum value of SAR (measured) = 21.1 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/12

System Check_H2450_190712

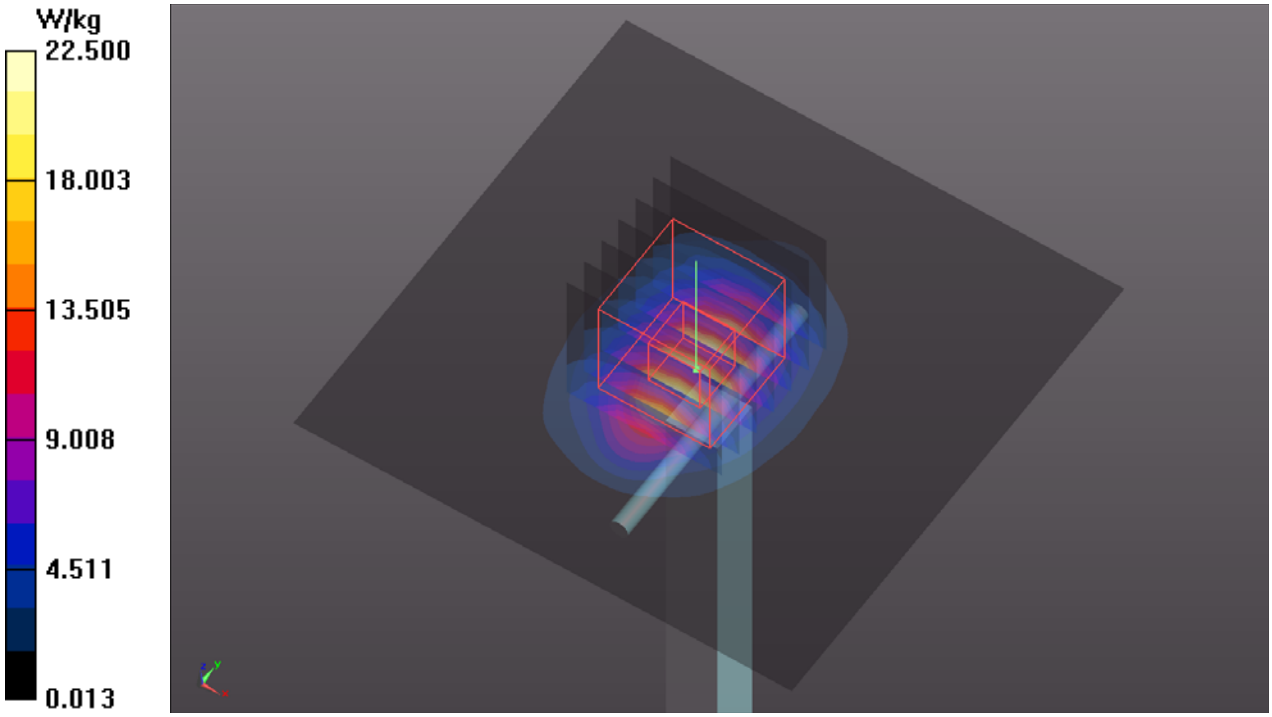
DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0712 Medium parameters used: f = 2450 MHz; σ = 1.876 S/m; ε_r = 38.408; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.64, 7.64, 7.64); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 22.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 111.2 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 27.8 W/kg
SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.24 W/kg
Maximum value of SAR (measured) = 22.5 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/22

System Check_H2600_190622

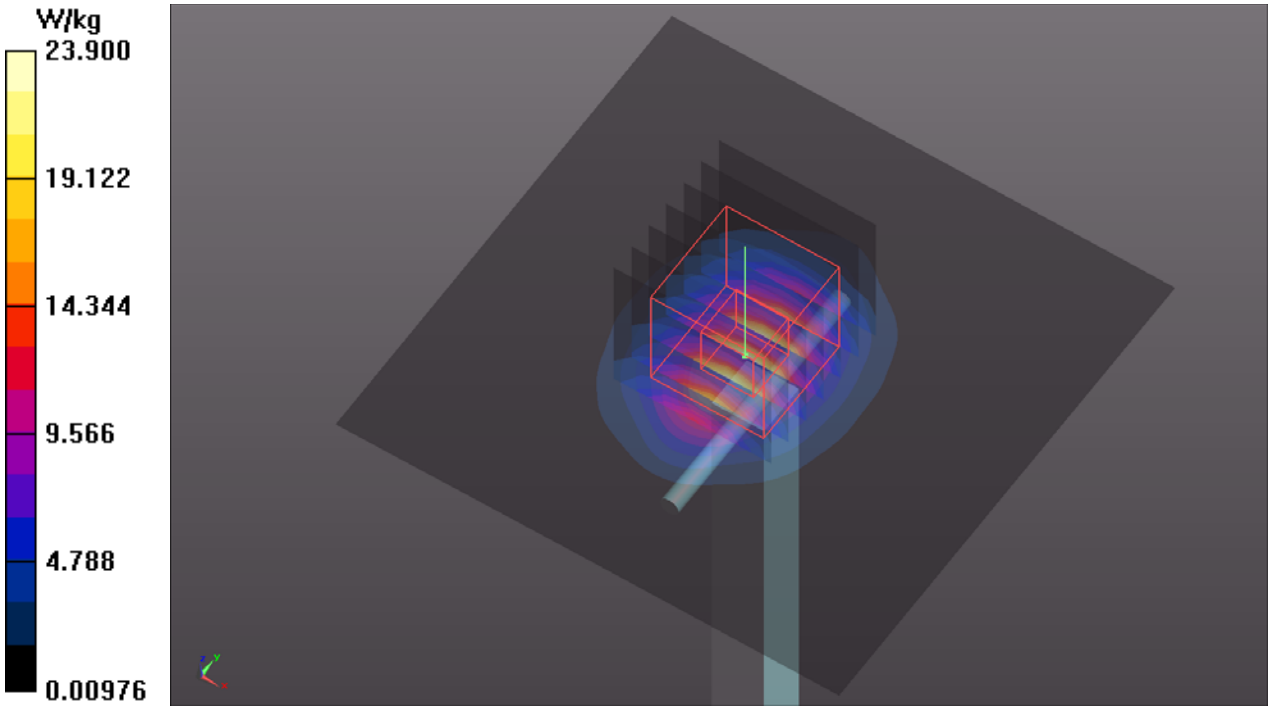
DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0622 Medium parameters used: f = 2600 MHz; σ = 2.02 S/m; ε_r = 37.839; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.5, 7.5, 7.5); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 23.9 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 105.3 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 29.8 W/kg
SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.05 W/kg
Maximum value of SAR (measured) = 23.8 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/12

System Check_H5250_190712

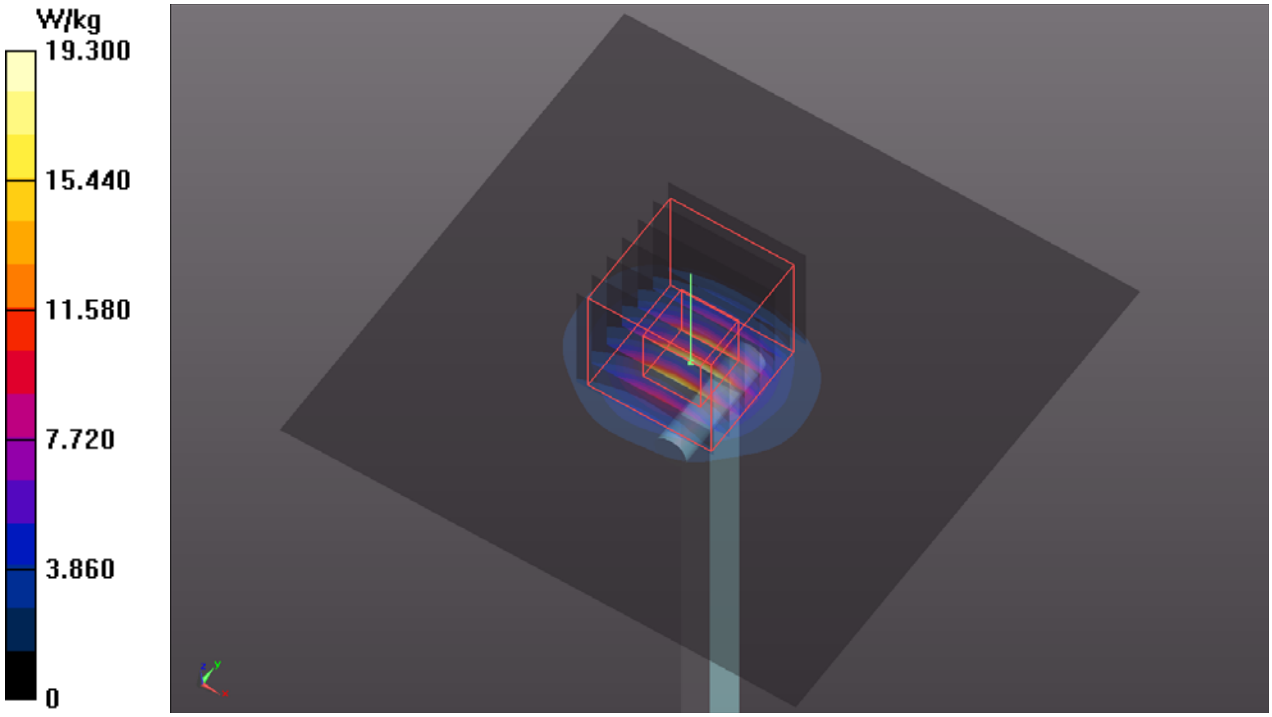
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: H34T60N2_0712 Medium parameters used: f = 5250 MHz; σ = 4.701 S/m; ε_r = 36.243; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(5.29, 5.29, 5.29); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.3 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 70.29 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 33.2 W/kg
SAR(1 g) = 8.46 W/kg; SAR(10 g) = 2.44 W/kg
Maximum value of SAR (measured) = 21.1 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/17

System Check_H5600_190717

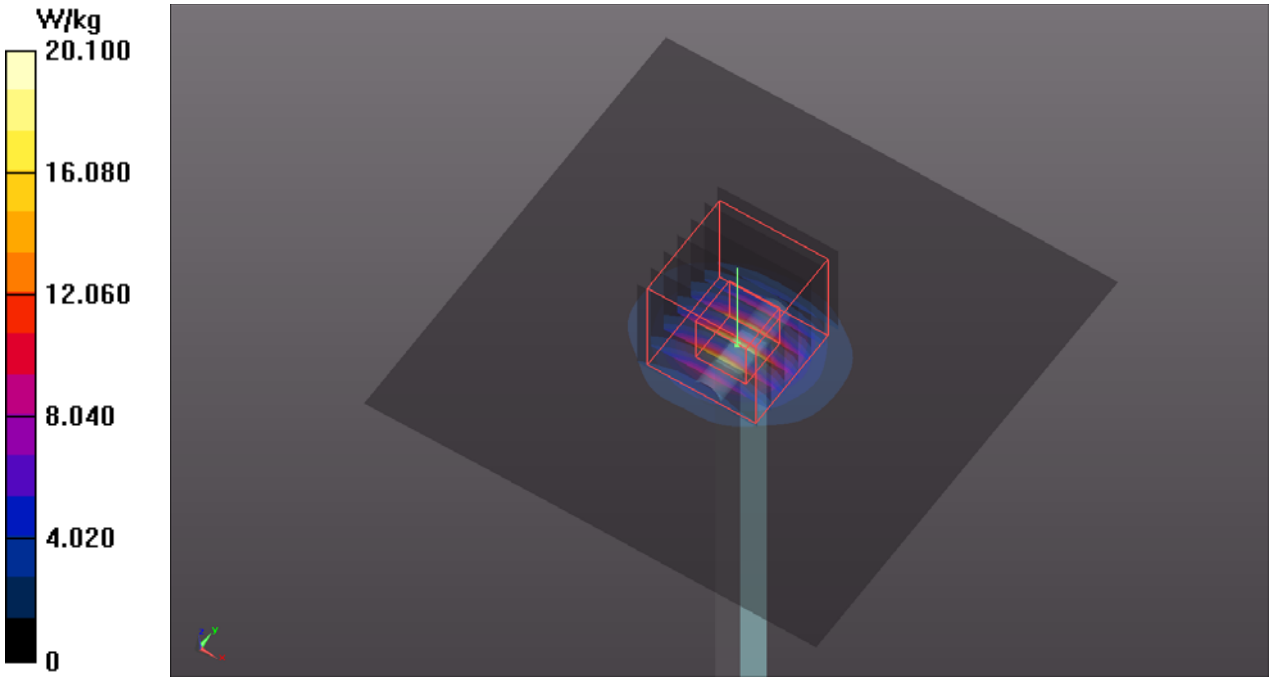
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: H34T60N1_0717 Medium parameters used: f = 5600 MHz; σ = 5.089 S/m; ε_r = 36.492; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.69, 4.69, 4.69); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.1 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 71.49 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 34.7 W/kg
SAR(1 g) = 8.3 W/kg; SAR(10 g) = 2.38 W/kg
Maximum value of SAR (measured) = 21.2 W/kg



System Check_H5750_190712

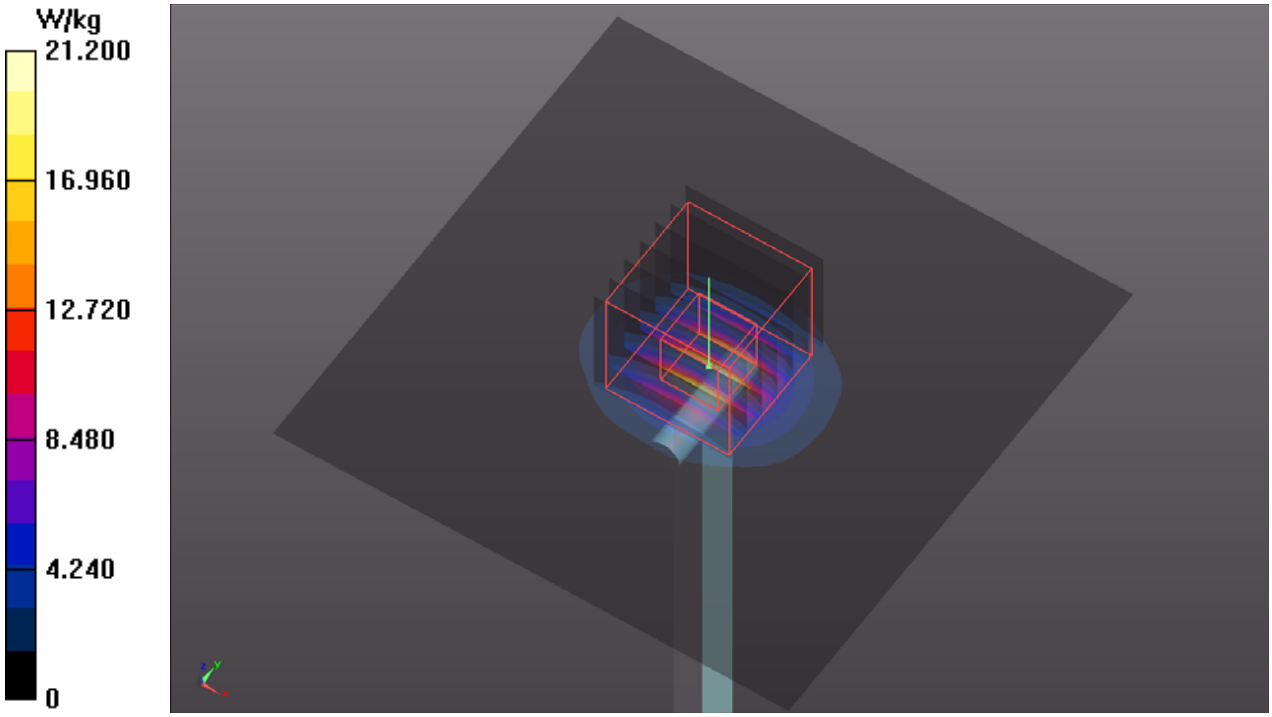
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5750 MHz;Duty Cycle: 1:1
Medium: H34T60N2_0712 Medium parameters used: f = 5750 MHz; σ = 5.298 S/m; ε_r = 35.4; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.85, 4.85, 4.85); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 21.2 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 63.18 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 41.1 W/kg
SAR(1 g) = 8.75 W/kg; SAR(10 g) = 2.49 W/kg
Maximum value of SAR (measured) = 23.0 W/kg



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.

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/21

P01 WCDMA II_RMC12.2K_Bottom_0mm_Ch9262_P-Sensor_w

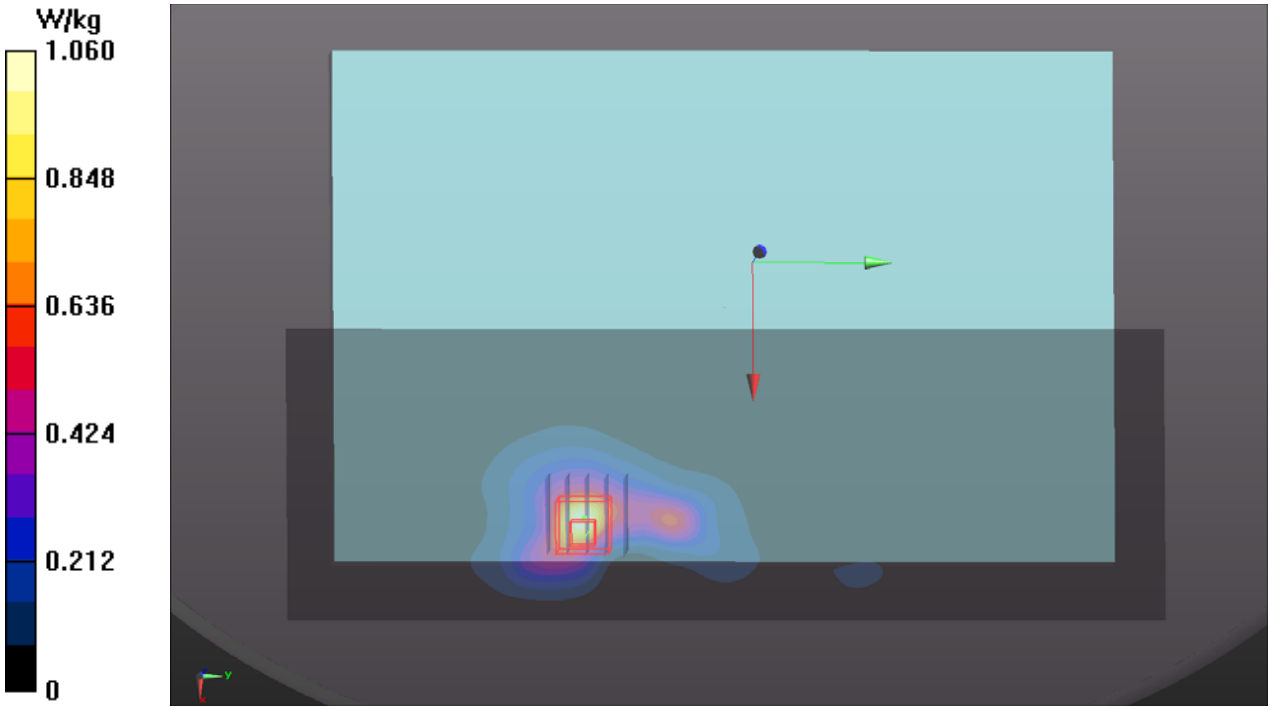
DUT: 190605C35

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0621 Medium parameters used: f = 1852.4 MHz; σ = 1.411 S/m; ε_r = 38.807; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.25, 8.25, 8.25); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.06 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.92 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.402 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/21

P02 WCDMA IV_RMC12.2K_Bottom_0mm_Ch1413_P-Sensor_w

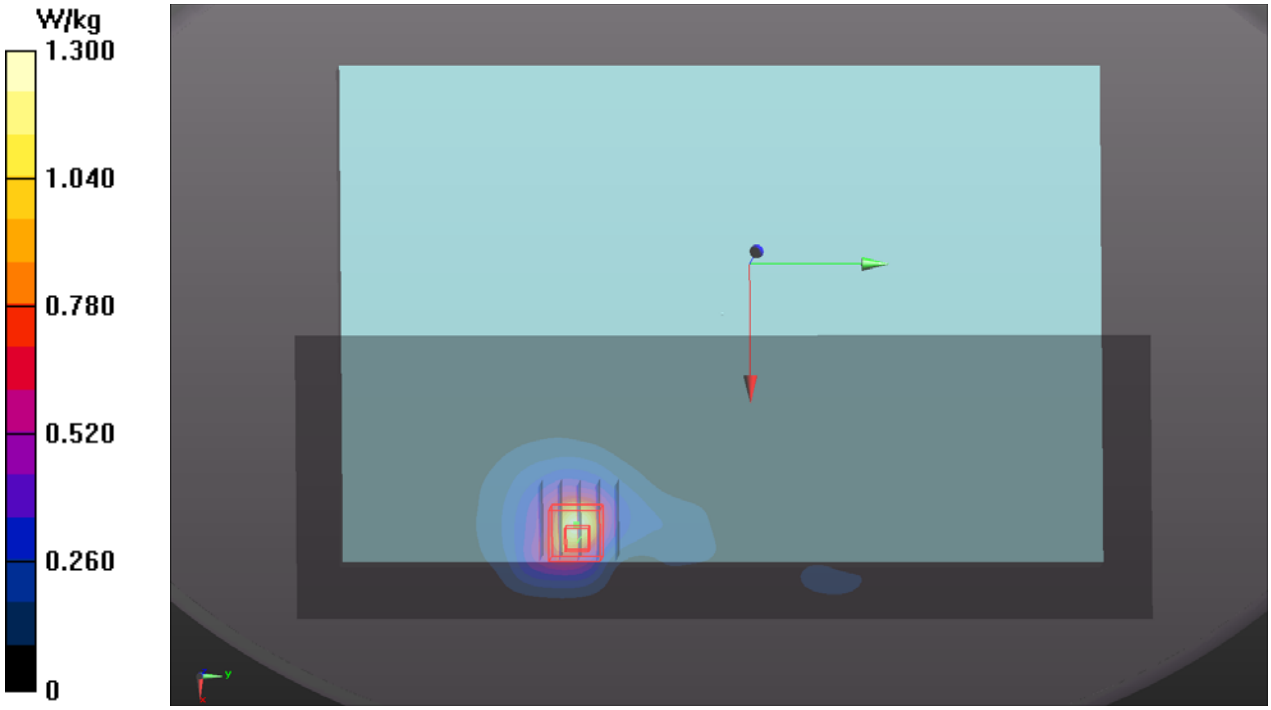
DUT: 190605C35

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0621 Medium parameters used: f = 1733 MHz; σ = 1.304 S/m; ε_r = 39.244; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.30 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.74 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 0.921 W/kg; SAR(10 g) = 0.487 W/kg
Maximum value of SAR (measured) = 1.45 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/21

P03 WCDMA V_RMC12.2K_Bottom_0mm_Ch4132_P-Sensor_w

DUT: 190605C35

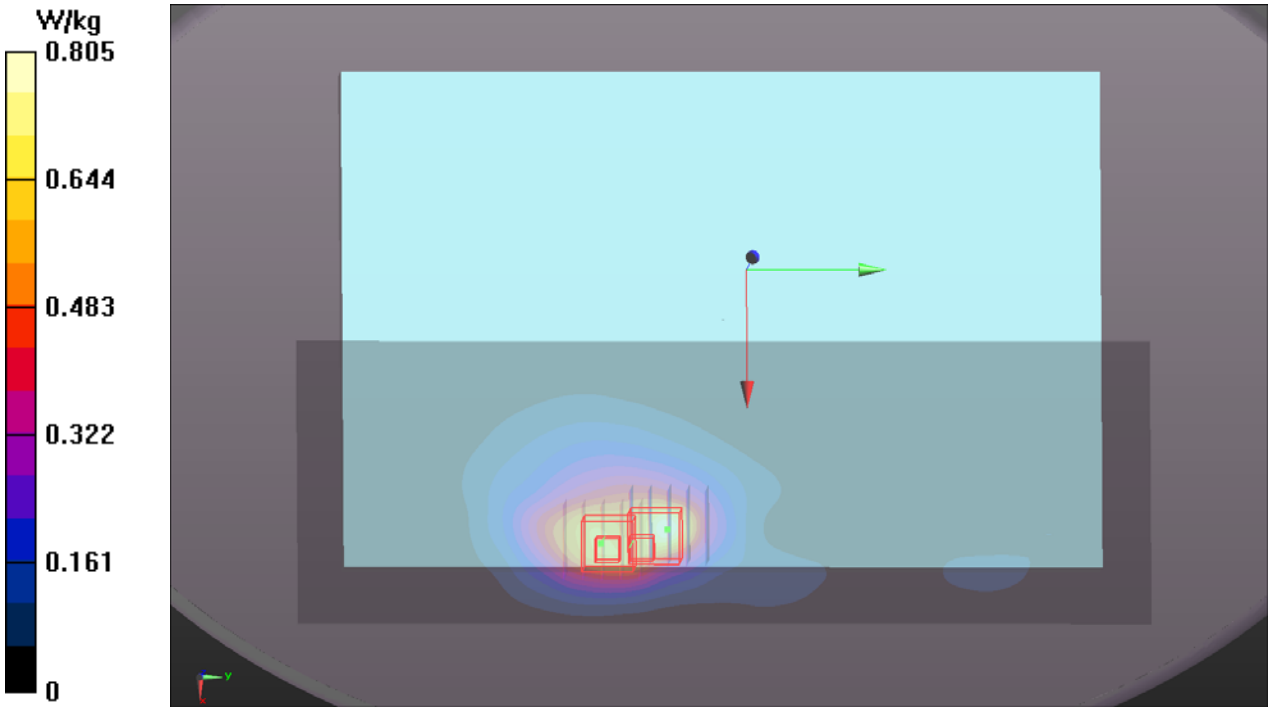
Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: H07T10N2_0621 Medium parameters used: f = 826.4 MHz; σ = 0.909 S/m; ε_r = 40.945; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.82, 9.82, 9.82); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.805 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.87 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.666 W/kg; SAR(10 g) = 0.394 W/kg
Maximum value of SAR (measured) = 0.957 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.87 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.339 W/kg
Maximum value of SAR (measured) = 0.965 W/kg



P04 LTE 4_QPSK20M_Bottom_0mm_Ch20300_1RB_OS0_P-Sensor_w

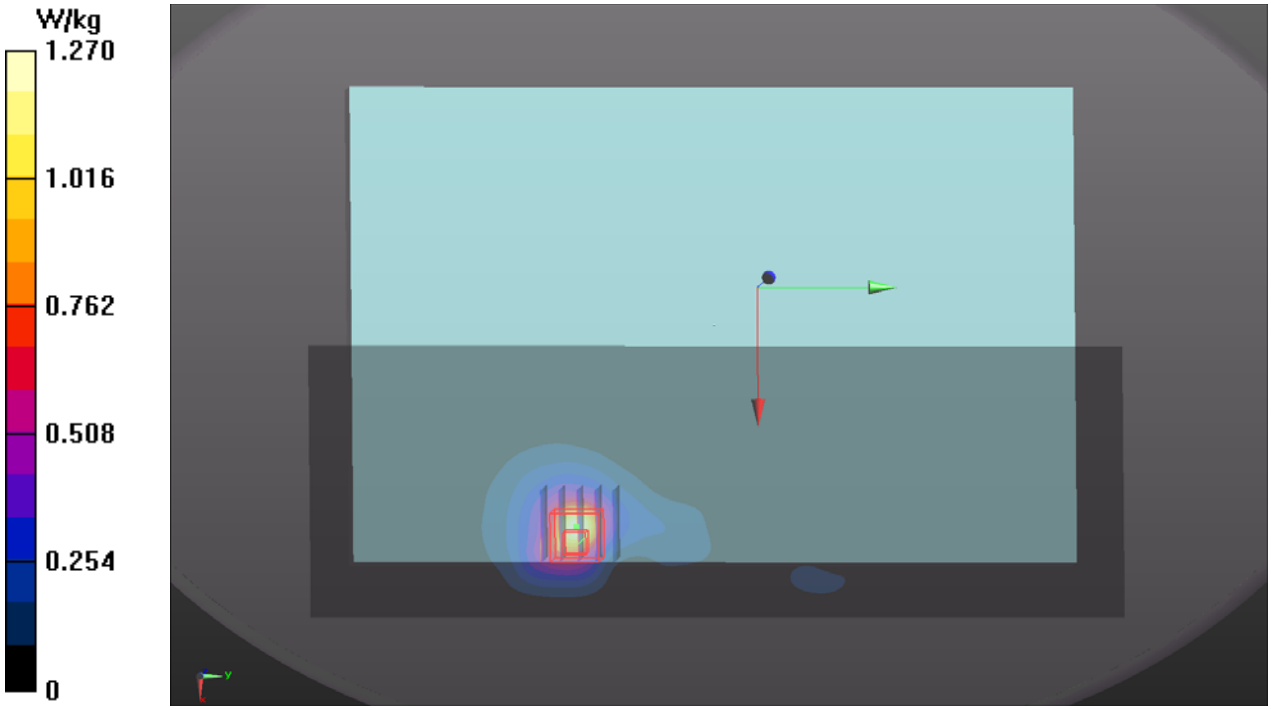
DUT: 190605C35

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0621 Medium parameters used: f = 1745 MHz; σ = 1.315 S/m; ε_r = 39.203; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.27 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.77 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 0.884 W/kg; SAR(10 g) = 0.469 W/kg
Maximum value of SAR (measured) = 1.39 W/kg



P05 LTE 5_QPSK10M_Bottom_0mm_Ch20450_1RB_OS0_P-Sensor_w

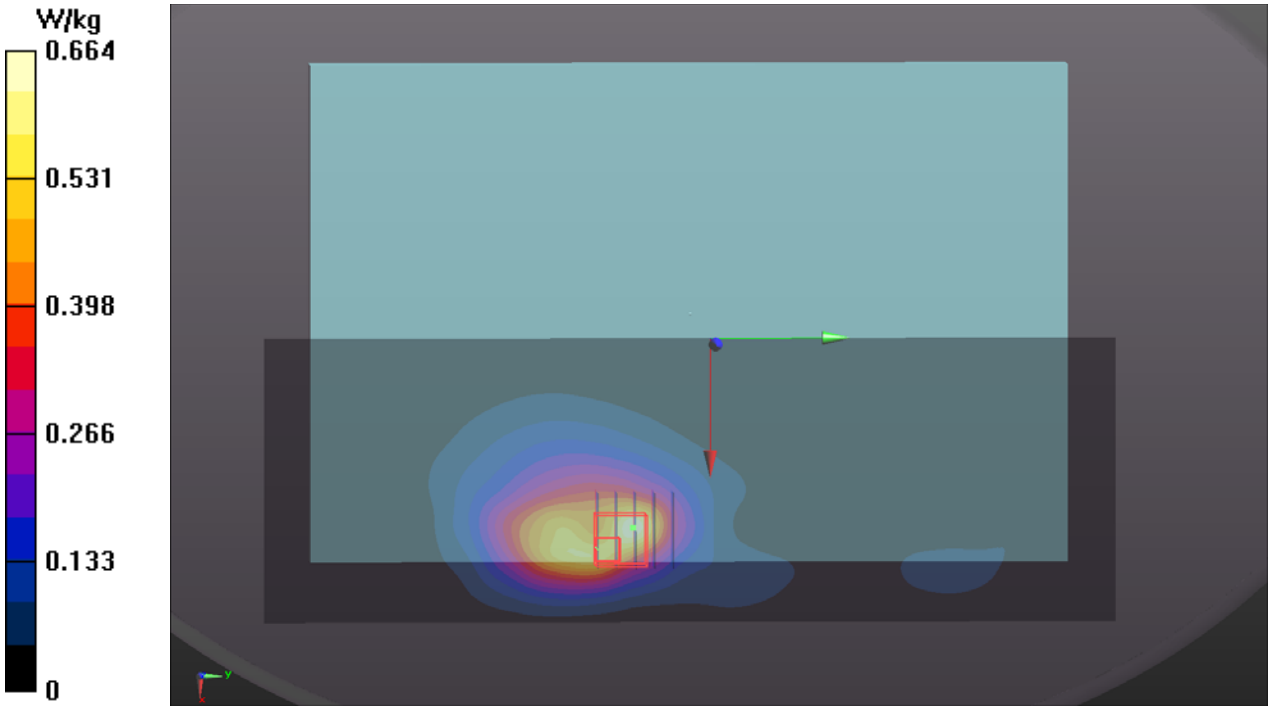
DUT: 190605C35

Communication System: LTE; Frequency: 829 MHz;Duty Cycle: 1:1
Medium: H07T10N2_0621 Medium parameters used: f = 829 MHz; σ = 0.911 S/m; ε_r = 40.918; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.82, 9.82, 9.82); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.664 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.51 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.957 W/kg
SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.290 W/kg
Maximum value of SAR (measured) = 0.801 W/kg



P06 LTE 7_QPSK20M_Bottom_0mm_Ch21350_1RB_OS0_P-Sensor_w

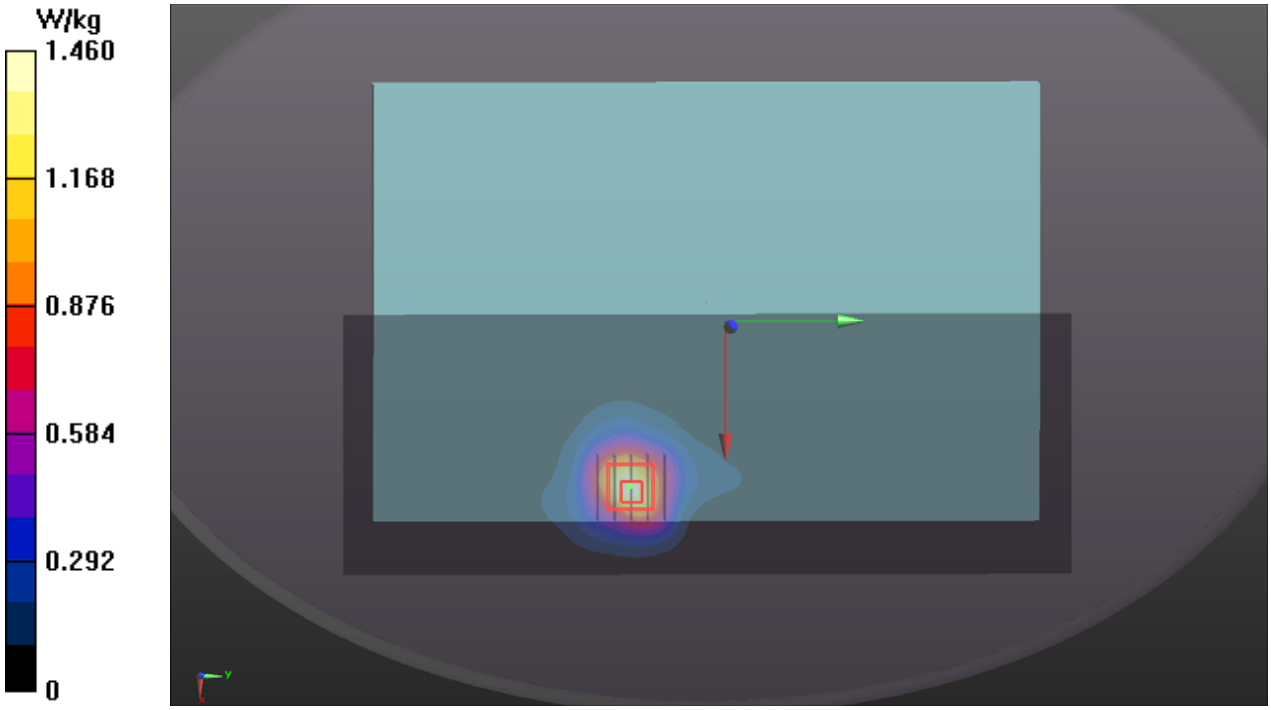
DUT: 190605C35

Communication System: LTE; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0622 Medium parameters used: f = 2560 MHz; σ = 1.978 S/m; ε_r = 37.969; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.5, 7.5, 7.5); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (111x301x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.76 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.88 W/kg
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.560 W/kg
Maximum value of SAR (measured) = 1.47 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/22

P07 LTE 12_QPSK10M_Bottom_0mm_Ch23095_1RB_OS0_P-Sensor_w

DUT: 190605C35

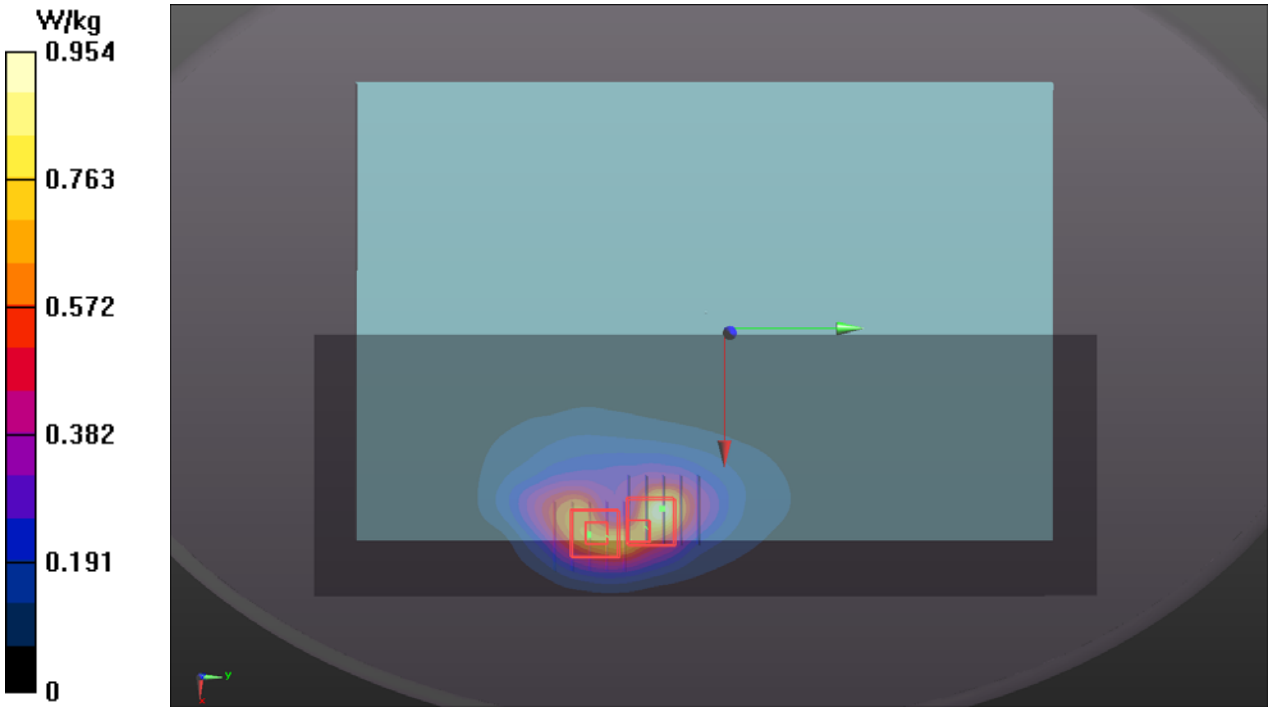
Communication System: LTE; Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: H06T09N1_0622 Medium parameters used: f = 707.5 MHz; σ = 0.852 S/m; ε_r = 43.971; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(10.06, 10.06, 10.06); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.954 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.42 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.415 W/kg
Maximum value of SAR (measured) = 1.25 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.42 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.692 W/kg; SAR(10 g) = 0.374 W/kg
Maximum value of SAR (measured) = 1.08 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/22

P08 LTE 13_QPSK10M_Bottom_0mm_Ch23230_1RB_OS0_P-Sensor_w

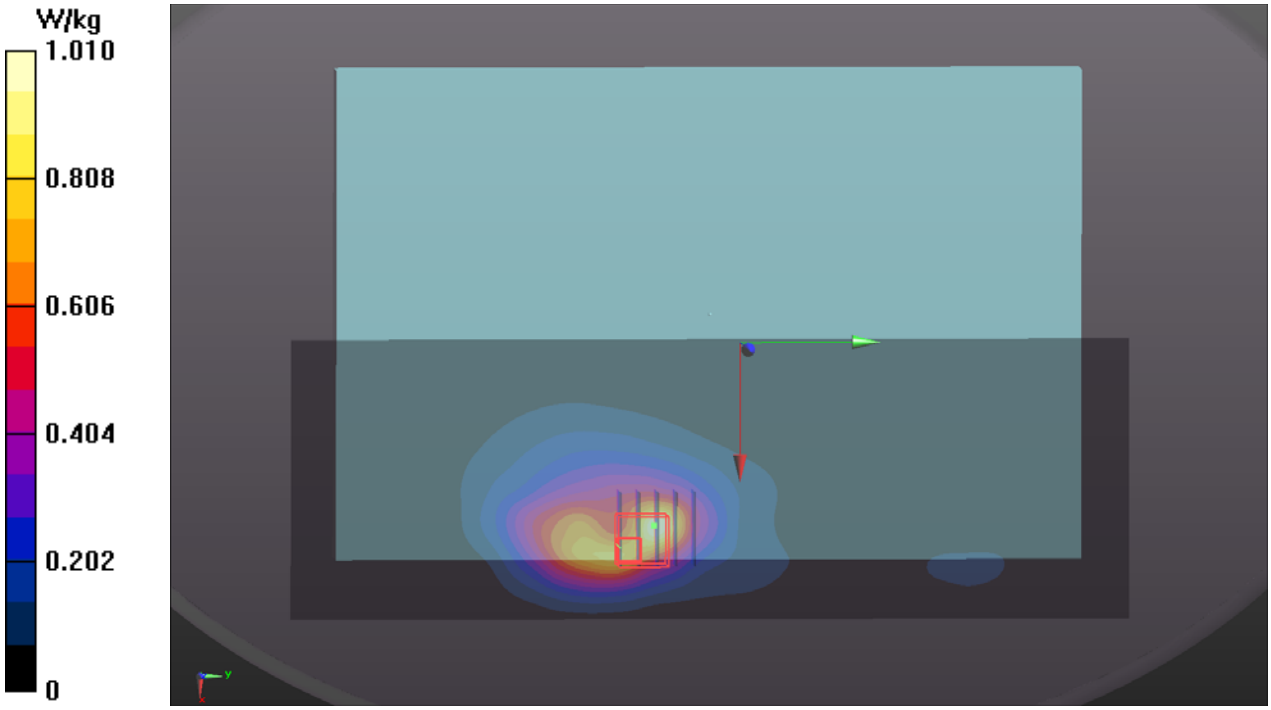
DUT: 190605C35

Communication System: LTE; Frequency: 782 MHz;Duty Cycle: 1:1
Medium: H06T09N1_0622 Medium parameters used: f = 782 MHz; σ = 0.922 S/m; ε_r = 42.977; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(10.06, 10.06, 10.06); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.33 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.46 W/kg
SAR(1 g) = 0.753 W/kg; SAR(10 g) = 0.421 W/kg
Maximum value of SAR (measured) = 1.18 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/22

P09 LTE 14_QPSK10M_Bottom_0mm_Ch23330_1RB_OS49_P-Sensor_w

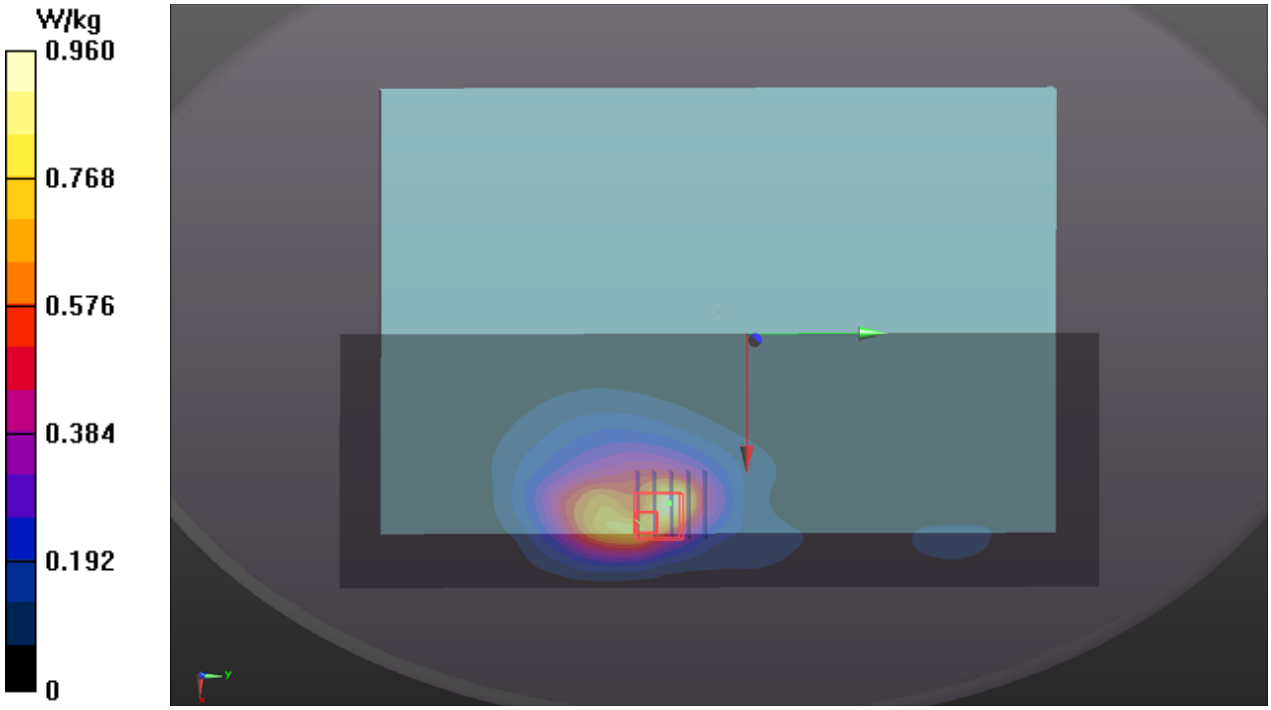
DUT: 190605C35

Communication System: LTE; Frequency: 793 MHz;Duty Cycle: 1:1
Medium: H06T09N1_0622 Medium parameters used: f = 793 MHz; σ = 0.933 S/m; ε_r = 42.841; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(10.06, 10.06, 10.06); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.960 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.74 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.710 W/kg; SAR(10 g) = 0.401 W/kg
Maximum value of SAR (measured) = 1.13 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/21

P10 LTE 25_QPSK20M_Bottom_0mm_Ch26140_1RB_OS0_P-Sensor_w

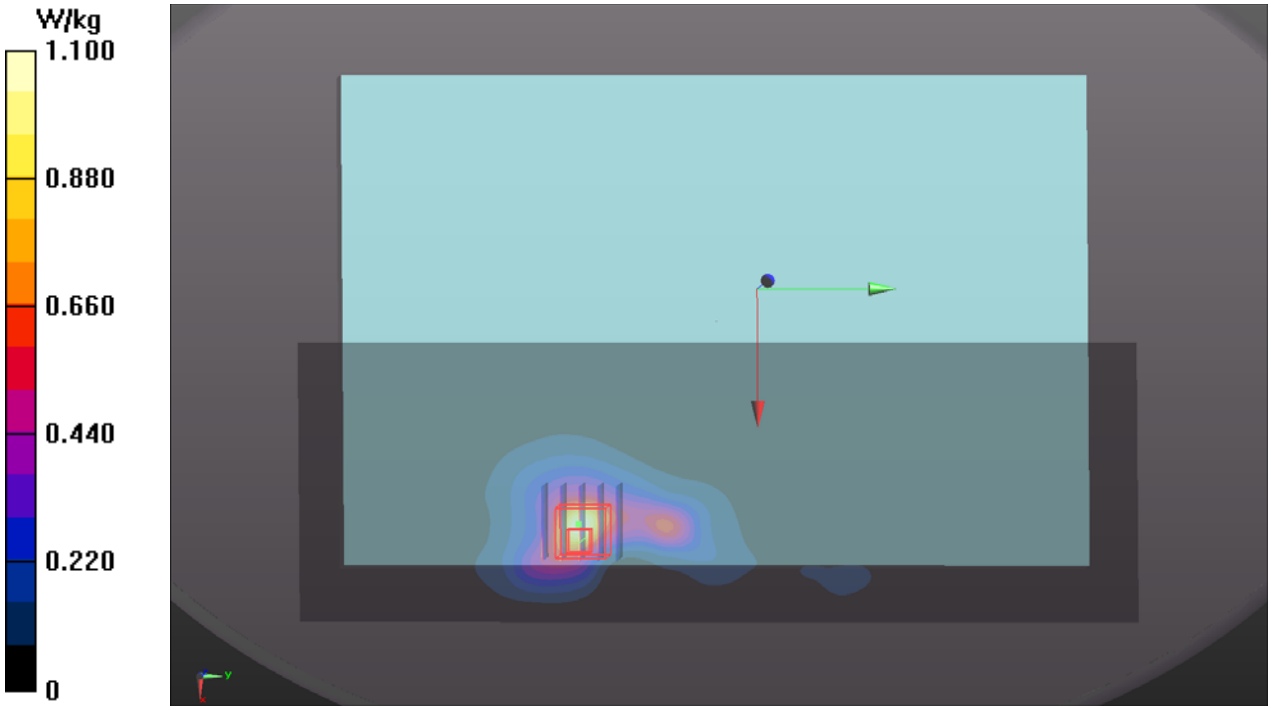
DUT: 190605C35

Communication System: LTE; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0621 Medium parameters used: f = 1860 MHz; σ = 1.418 S/m; ε_r = 38.782; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.25, 8.25, 8.25); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.10 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.68 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.52 W/kg
SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.428 W/kg
Maximum value of SAR (measured) = 1.24 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/21

P11 LTE 26_QPSK15M_Bottom_0mm_Ch26765_1RB_OS0_P-Sensor_w

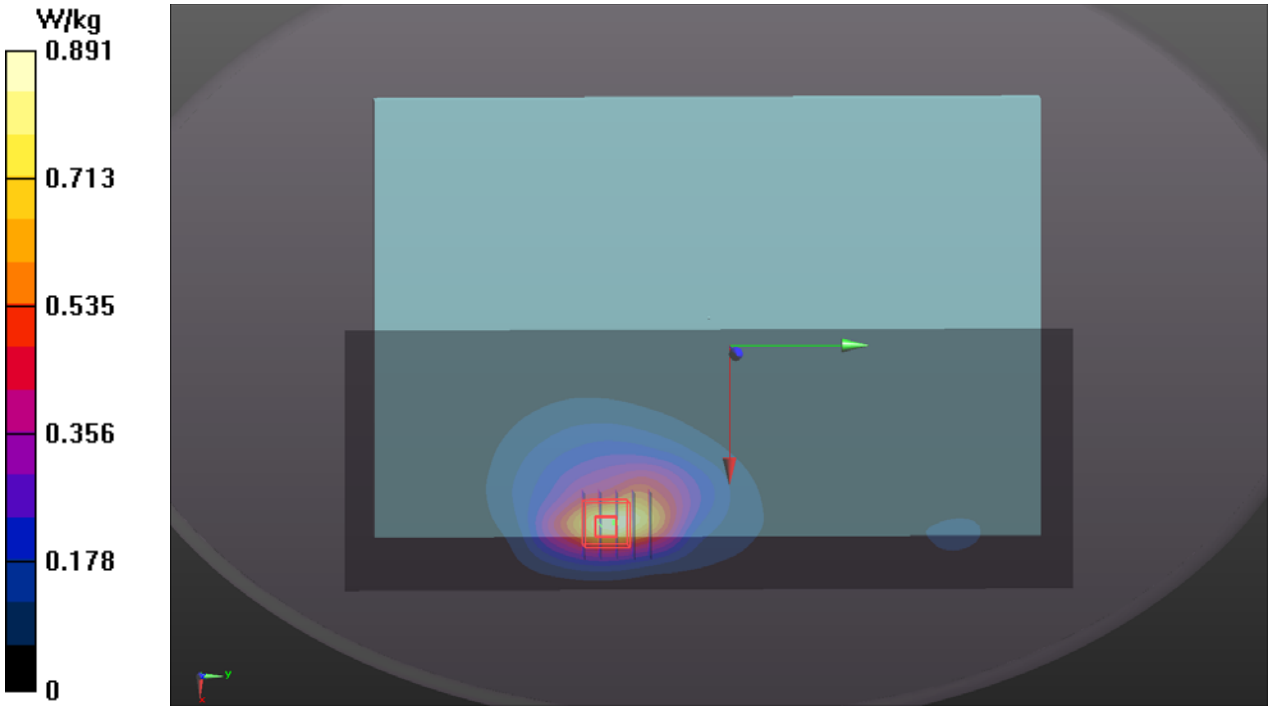
DUT: 190605C35

Communication System: LTE; Frequency: 821.5 MHz;Duty Cycle: 1:1
Medium: H07T10N2_0621 Medium parameters used: f = 821.5 MHz; σ = 0.904 S/m; ε_r = 40.997; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.82, 9.82, 9.82); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (91x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.891 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.73 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.599 W/kg; SAR(10 g) = 0.349 W/kg
Maximum value of SAR (measured) = 0.906 W/kg



P12 LTE 30_QPSK10M_Bottom_0mm_Ch27710_1RB_OS0_P-Sensor_w

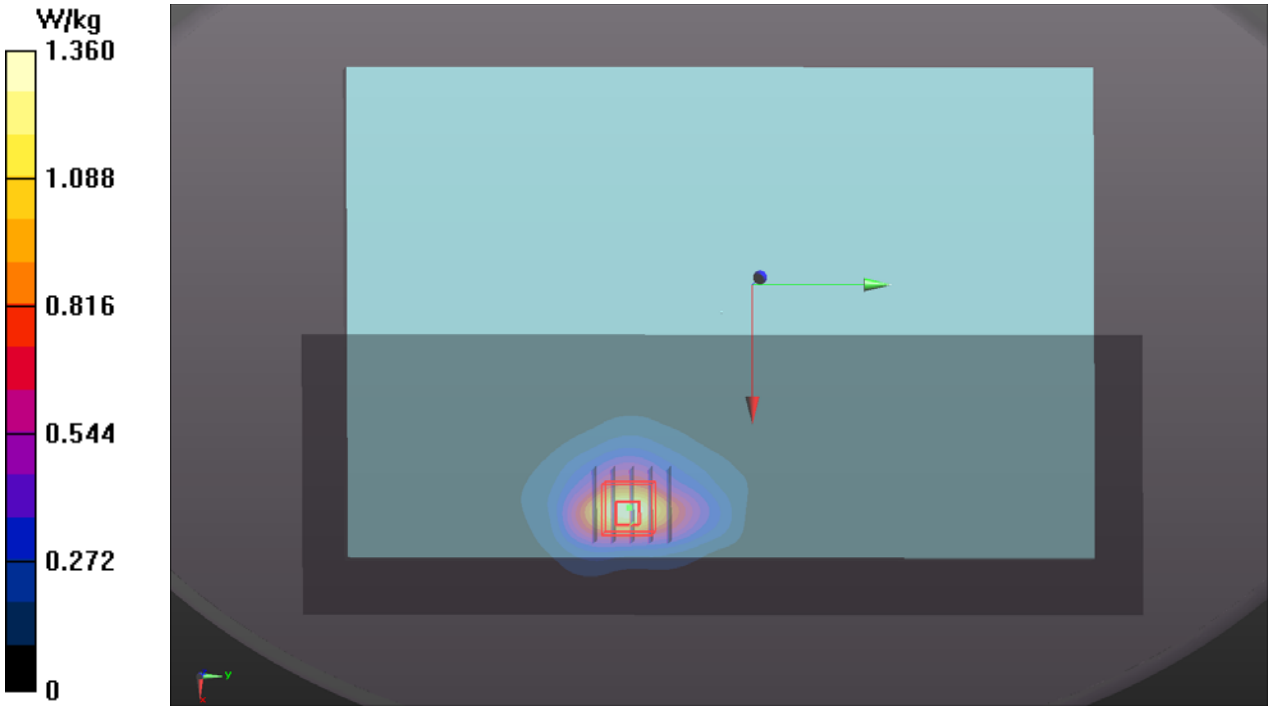
DUT: 190605C35

Communication System: LTE; Frequency: 2310 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0621 Medium parameters used: f = 2310 MHz; σ = 1.723 S/m; ε_r = 39.415; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8, 8, 8); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.36 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.23 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.476 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/22

P13 LTE 38_QPSK20M_Bottom_0mm_Ch38150_1RB_OS0_P-Sensor_w

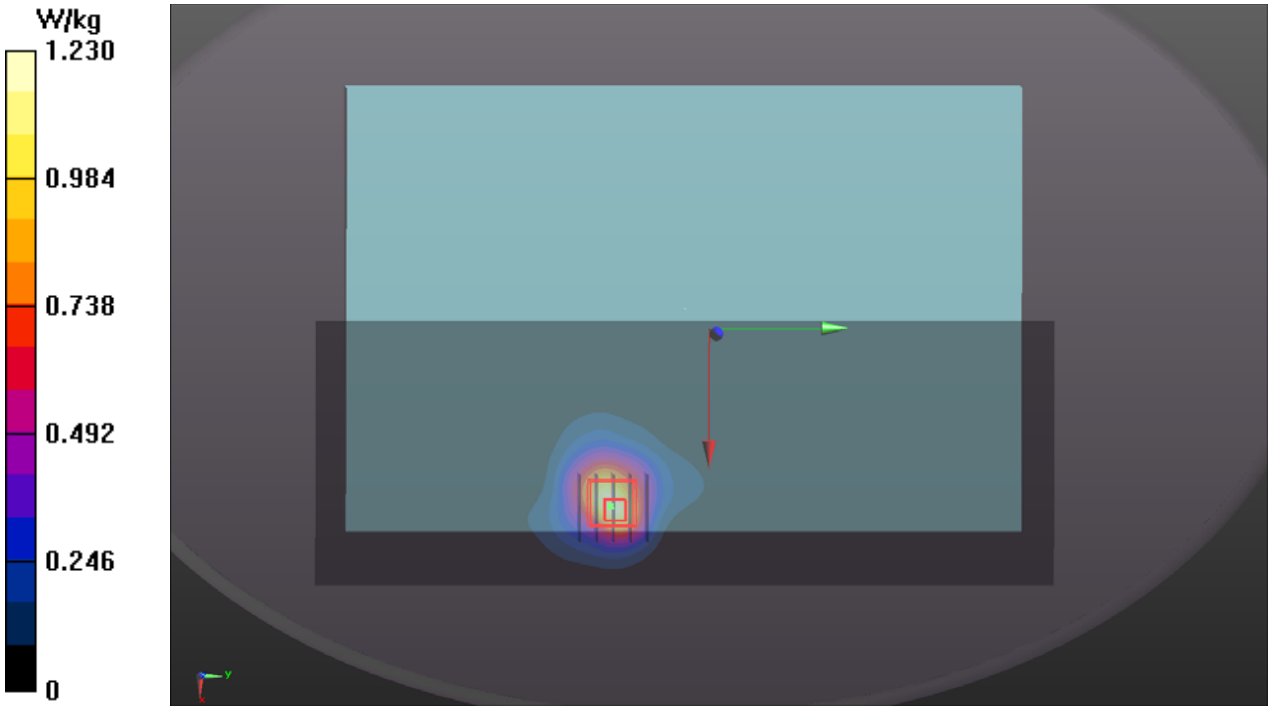
DUT: 190605C35

Communication System: LTE TDD CF0; Frequency: 2610 MHz;Duty Cycle: 1:1.58
Medium: H19T27N1_0622 Medium parameters used: f = 2610 MHz; σ = 2.031 S/m; ε_r = 37.804; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.5, 7.5, 7.5); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (111x301x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.23 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.25 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 0.879 W/kg; SAR(10 g) = 0.452 W/kg
Maximum value of SAR (measured) = 1.29 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/06/22

P14 LTE 41_QPSK20M_Bottom_0mm_Ch41490_1RB_OS0_P-Sensor_w

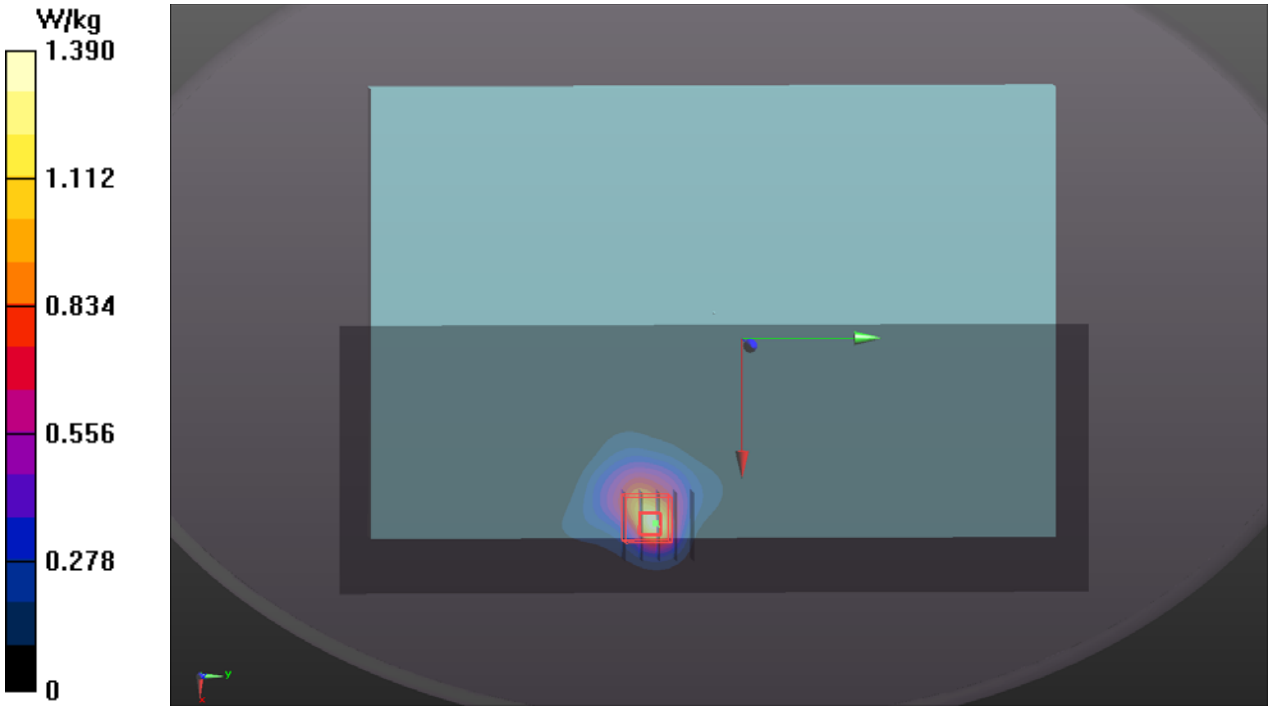
DUT: 190605C35

Communication System: LTE TDD CF0; Frequency: 2680 MHz;Duty Cycle: 1:1.58
Medium: H19T27N1_0622 Medium parameters used: f = 2680 MHz; σ = 2.106 S/m; ε_r = 37.561; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.5, 7.5, 7.5); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: ELI Phantom_1206; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (111x301x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.39 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.99 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.19 W/kg
SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.449 W/kg
Maximum value of SAR (measured) = 1.73 W/kg



P15 LTE 66_QPSK20M_Bottom_0mm_Ch132322_1RB_OS0_P-Sensor_w

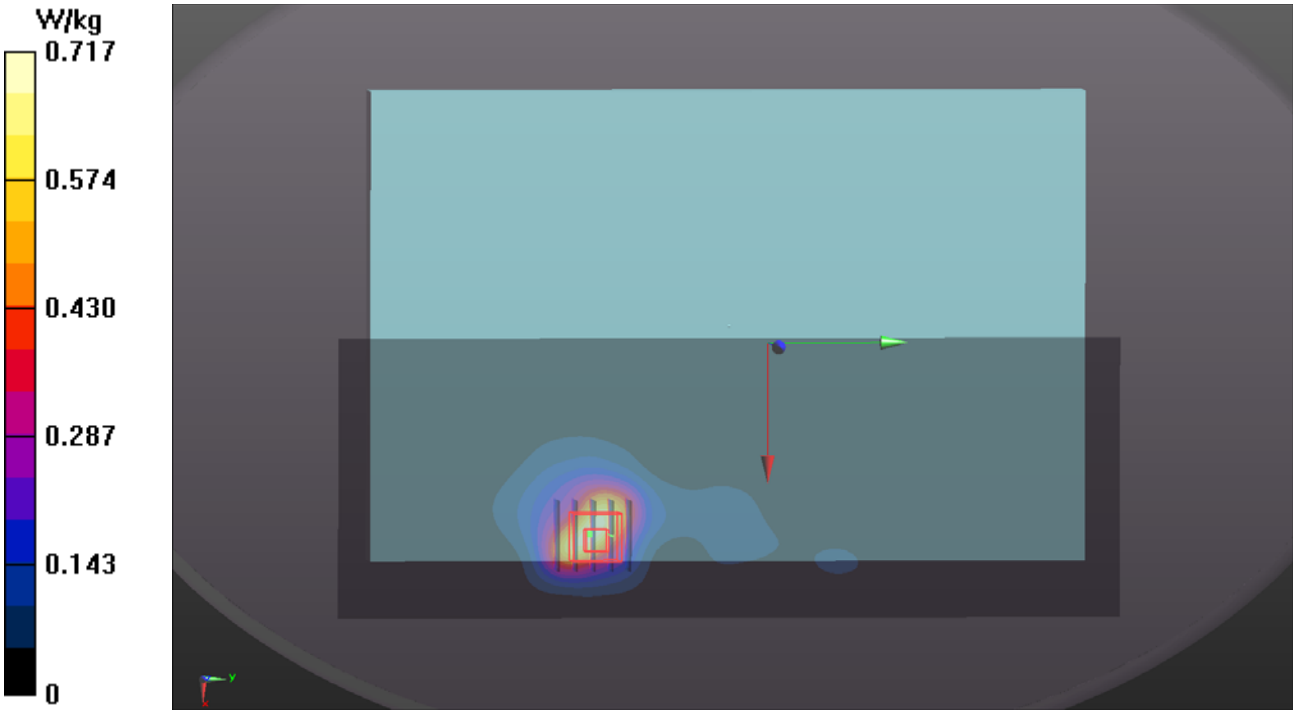
DUT: 190605C35

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0624 Medium parameters used: f = 1745 MHz; σ = 1.323 S/m; ε_r = 40.154; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.8, 8.8, 8.8); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (91x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.717 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.36 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.652 W/kg; SAR(10 g) = 0.329 W/kg
Maximum value of SAR (measured) = 1.04 W/kg



P16 WLAN2.4G_802.11b_Bottom_0mm_Ch6_Ant1_Sample1

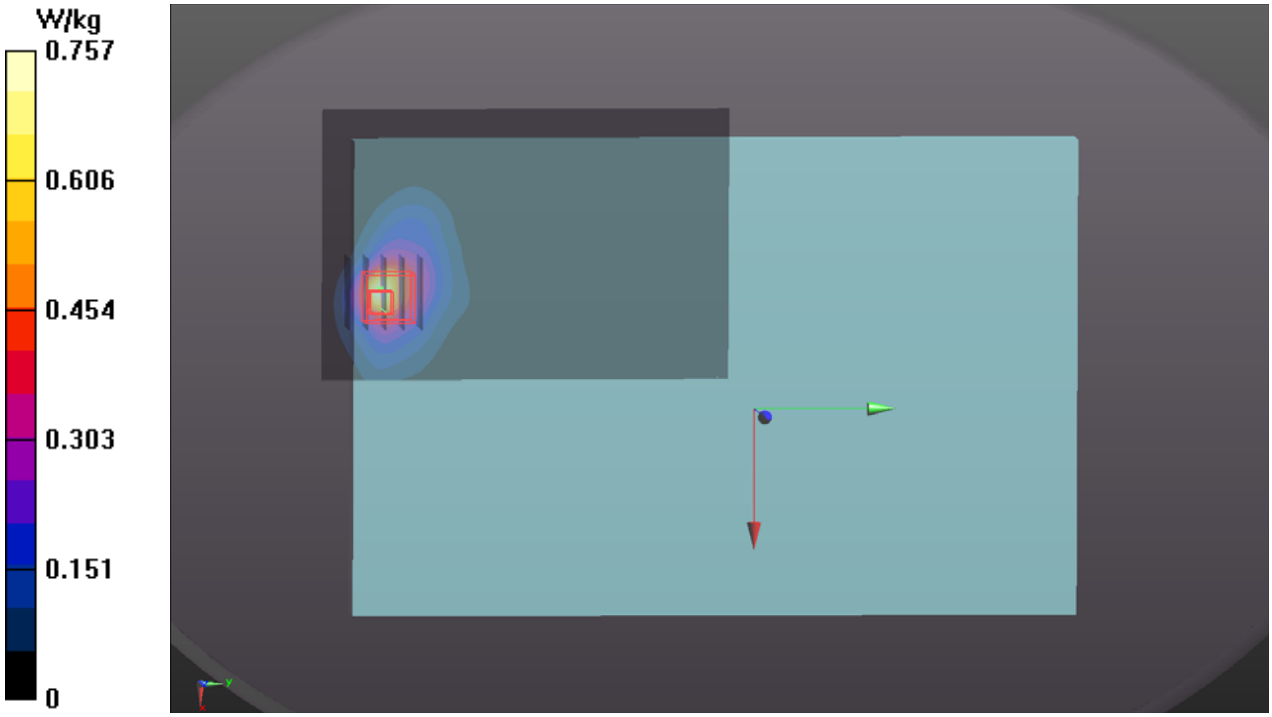
DUT: 190605C35

Communication System: WLAN_2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0712 Medium parameters used: f = 2437 MHz; σ = 1.863 S/m; ε_r = 38.462; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.64, 7.64, 7.64); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (101x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.757 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.28 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.999 W/kg
SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.188 W/kg
Maximum value of SAR (measured) = 0.745 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/17

P17 WLAN2.4G_802.11b_Bottom_0mm_Ch6_Ant1_Sample2

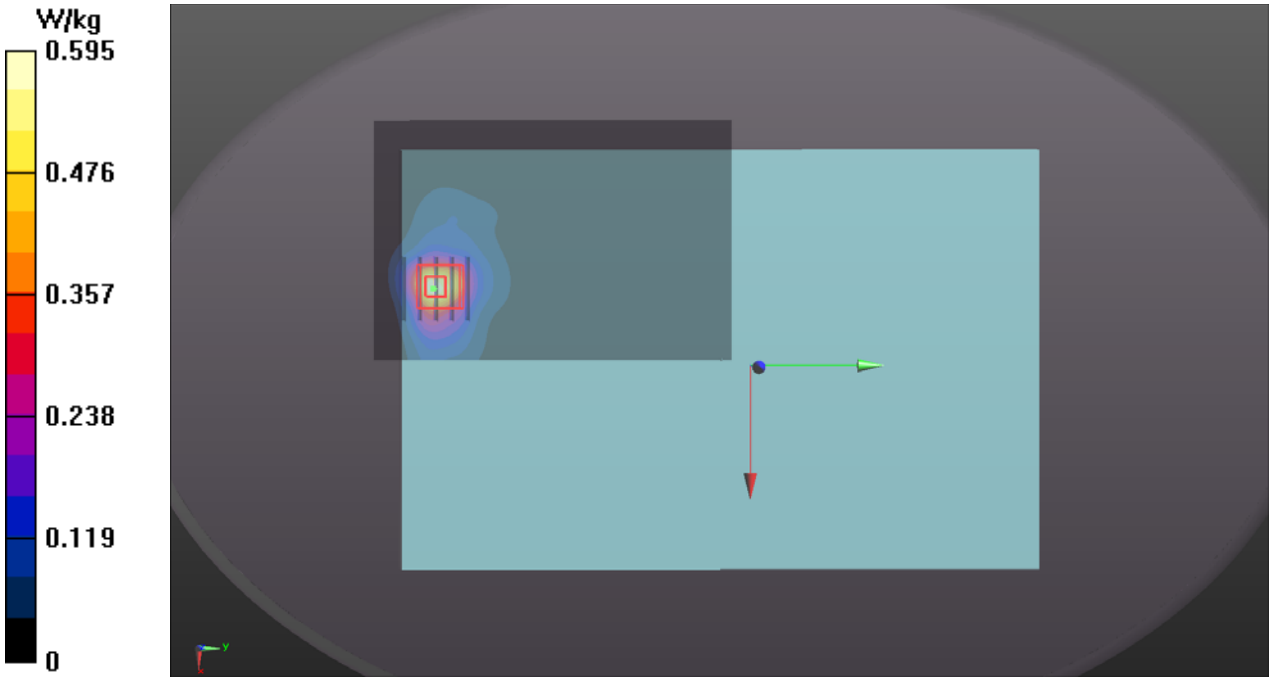
DUT: 190605C35

Communication System: WLAN_2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0717 Medium parameters used: f = 2437 MHz; σ = 1.816 S/m; ε_r = 38.635; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.64, 7.64, 7.64); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (101x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.595 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.65 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.201 W/kg
Maximum value of SAR (measured) = 0.844 W/kg



P18 WLAN5.3G_802.11a_Bottom_0mm_Ch60_Ant1_Sample1

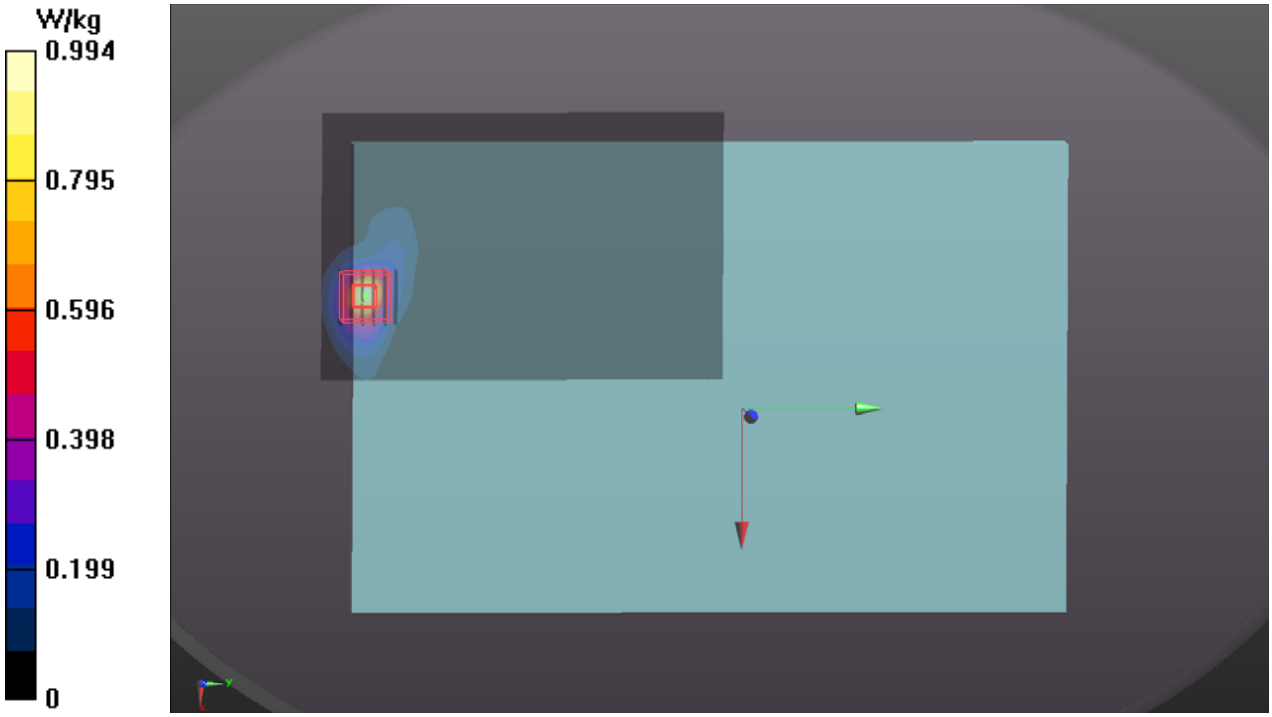
DUT: 190605C35

Communication System: WLAN_5G; Frequency: 5300 MHz;Duty Cycle: 1:1.03
Medium: H34T60N2_0712 Medium parameters used: f = 5300 MHz; σ = 4.762 S/m; ε_r = 36.185; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(5.29, 5.29, 5.29); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.994 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 16.16 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.116 W/kg
Maximum value of SAR (measured) = 0.950 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/17

P19 WLAN5.3G_802.11a_Bottom_0mm_Ch60_Ant0_Sample2

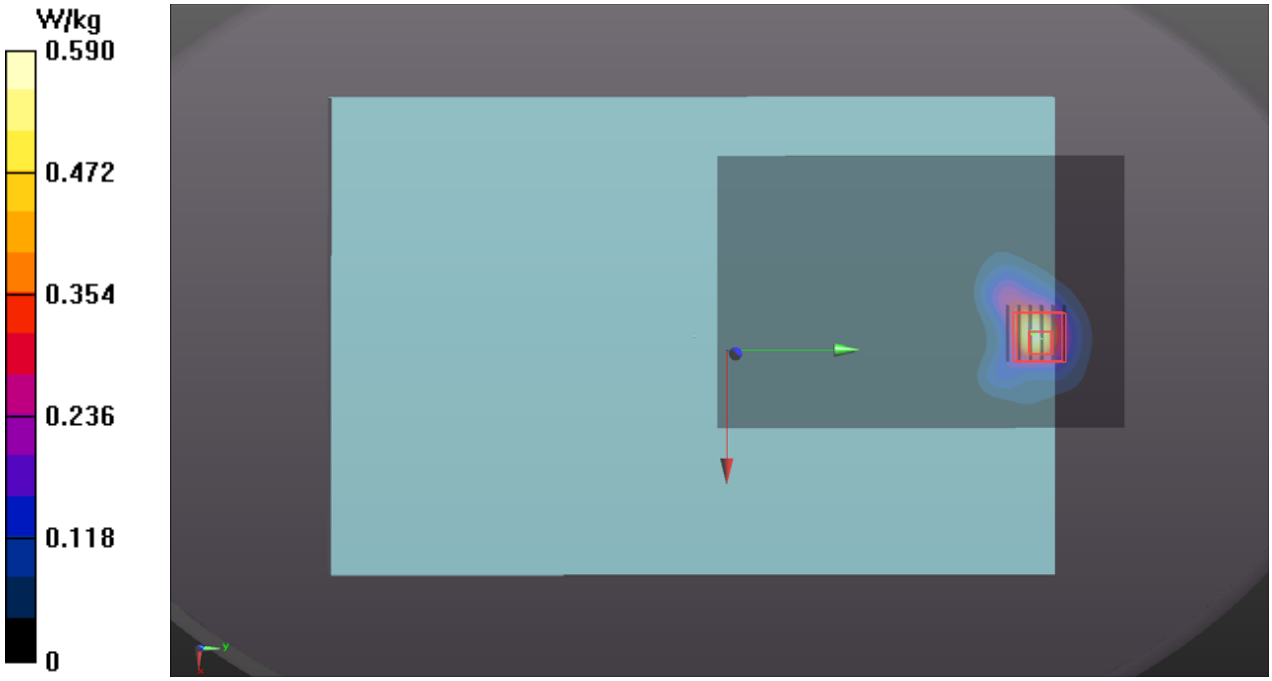
DUT: 190605C35

Communication System: WLAN_5G; Frequency: 5300 MHz;Duty Cycle: 1:1.03
Medium: H34T60N1_0717 Medium parameters used: f = 5300 MHz; σ = 4.783 S/m; ε_r = 36.9; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(5.29, 5.29, 5.29); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.590 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 12.20 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.090 W/kg
Maximum value of SAR (measured) = 0.655 W/kg



P20 WLAN5.6G_802.11a_Bottom_0mm_Ch124_Ant1_Sample1

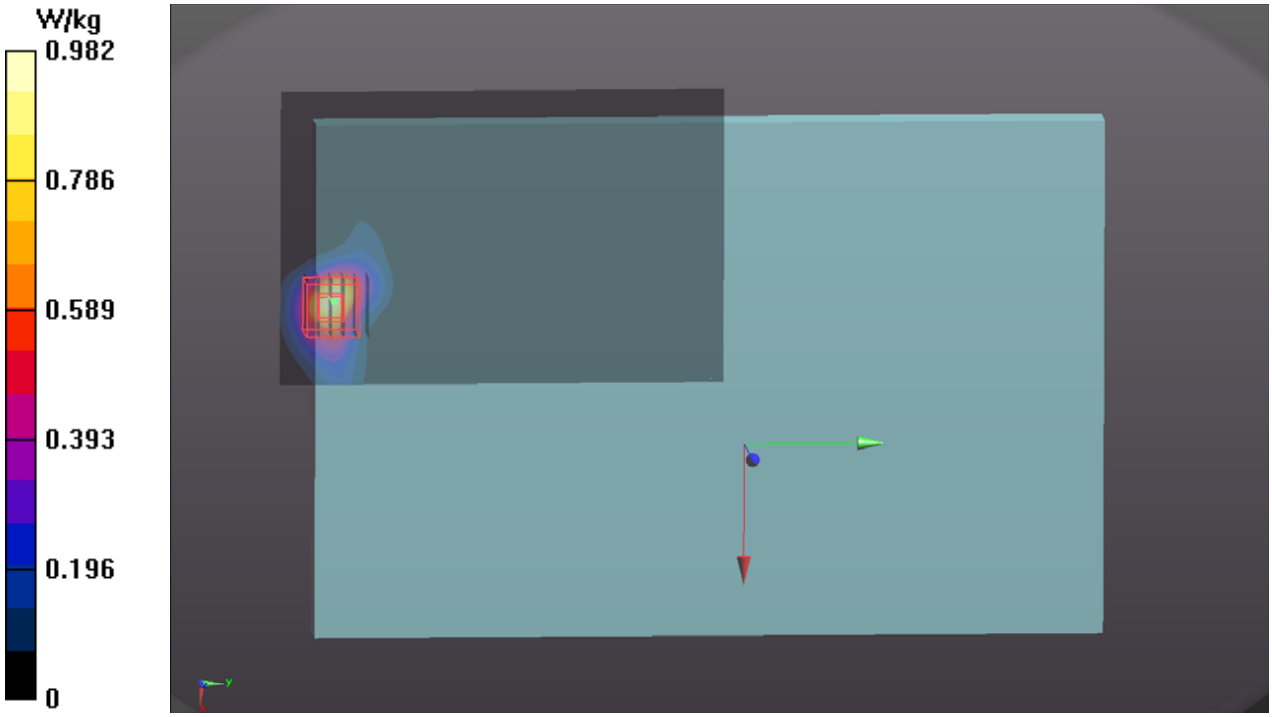
DUT: 190605C35

Communication System: WLAN_5G; Frequency: 5620 MHz;Duty Cycle: 1:1.03
Medium: H34T60N2_0712 Medium parameters used: f = 5620 MHz; σ = 5.145 S/m; ε_r = 35.645; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.69, 4.69, 4.69); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.982 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 13.85 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.00 W/kg
SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.128 W/kg
Maximum value of SAR (measured) = 1.03 W/kg



P21 WLAN5.6G_802.11a_Bottom_0mm_Ch124_Ant1_Sample2

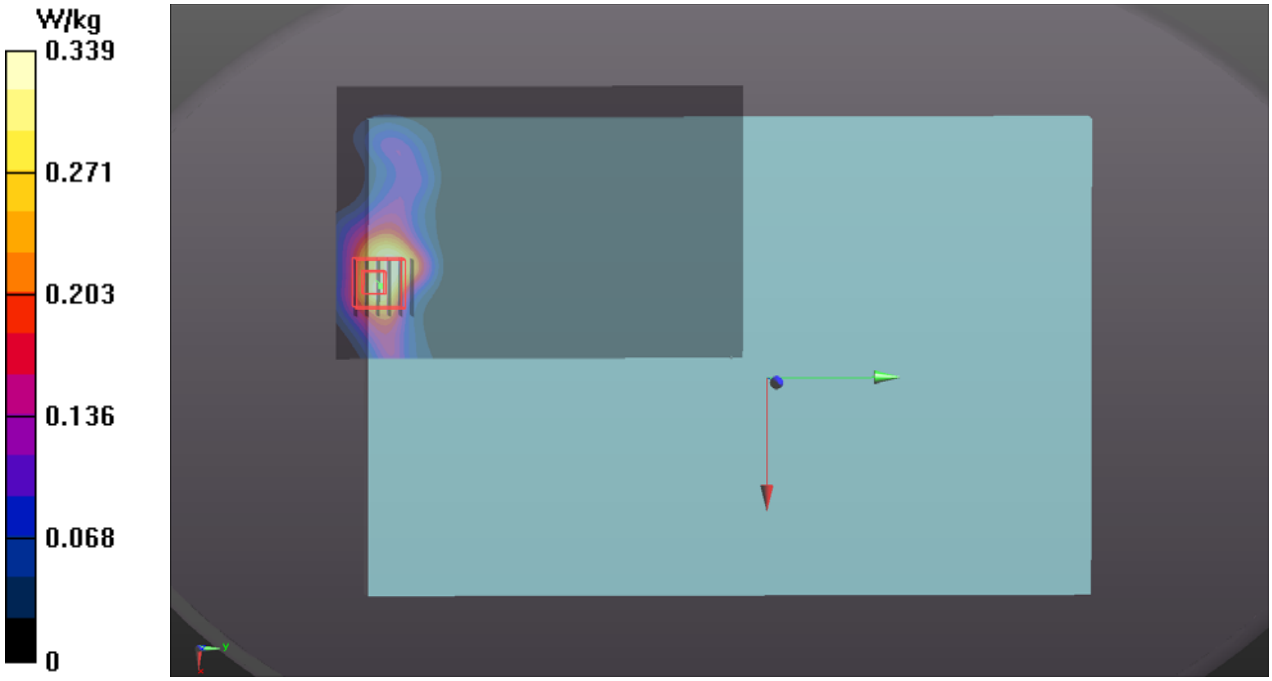
DUT: 190605C35

Communication System: WLAN_5G; Frequency: 5620 MHz;Duty Cycle: 1:1.03
Medium: H34T60N1_0717 Medium parameters used: f = 5620 MHz; σ = 5.108 S/m; ε_r = 36.456; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.69, 4.69, 4.69); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.339 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 8.628 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.059 W/kg
Maximum value of SAR (measured) = 0.628 W/kg



P22 WLAN5.8G_802.11a_Bottom_0mm_Ch165_Ant1_Sample1

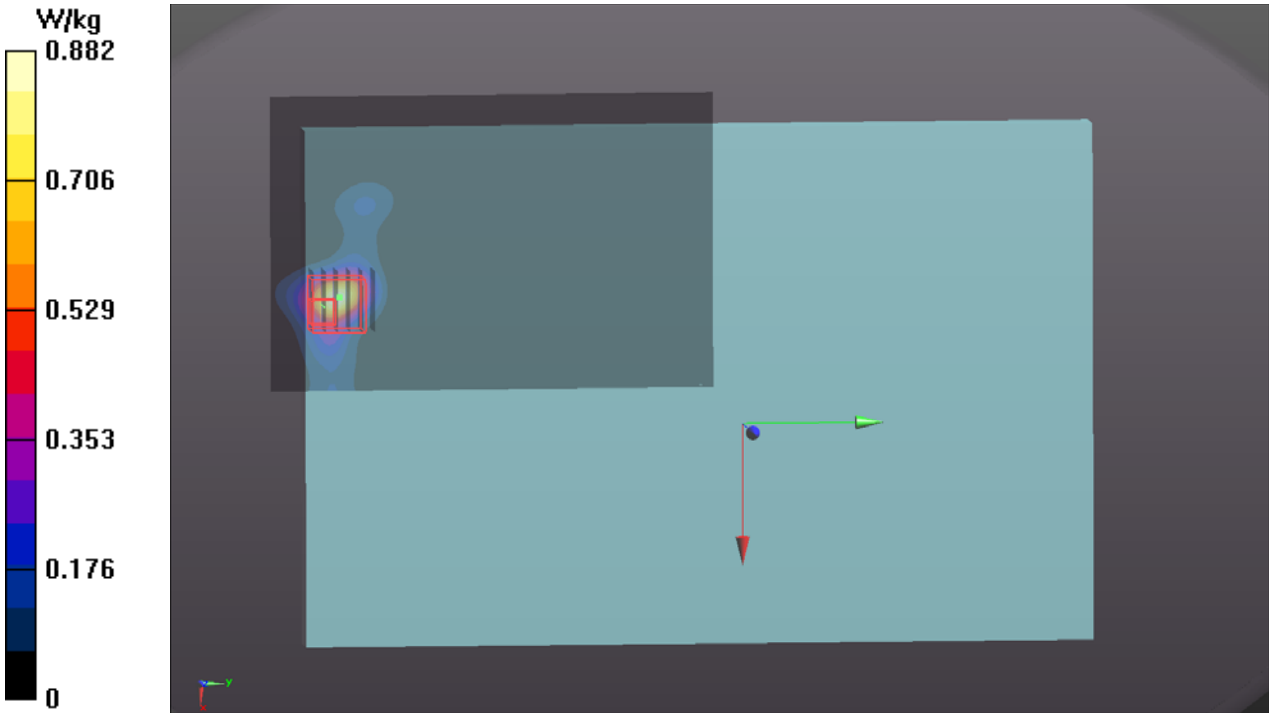
DUT: 190605C35

Communication System: WLAN_5G; Frequency: 5825 MHz;Duty Cycle: 1:1.03
Medium: H34T60N2_0712 Medium parameters used: f = 5825 MHz; σ = 5.387 S/m; ε_r = 35.26; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.85, 4.85, 4.85); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.882 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 11.88 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.92 W/kg
SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.114 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



P23 WLAN5.8G_802.11a_Bottom_0mm_Ch157_Ant1_Sample2

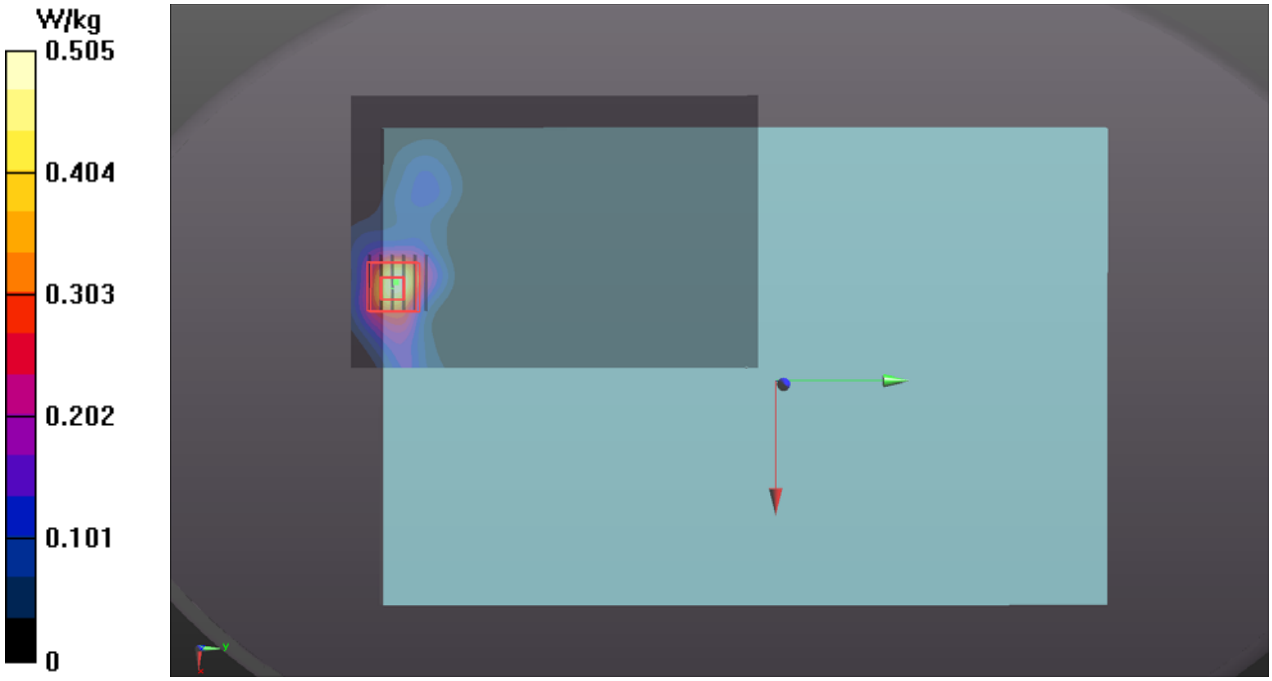
DUT: 190605C35

Communication System: WLAN_5G; Frequency: 5785 MHz;Duty Cycle: 1:1.03
Medium: H34T60N1_0717 Medium parameters used: f = 5785 MHz; σ = 5.283 S/m; ε_r = 36.242; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.85, 4.85, 4.85); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.505 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 11.30 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.48 W/kg
SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.073 W/kg
Maximum value of SAR (measured) = 0.756 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/12

P24 BT_BDR_Bottom_0mm_Ch39_Ant1_Sample1

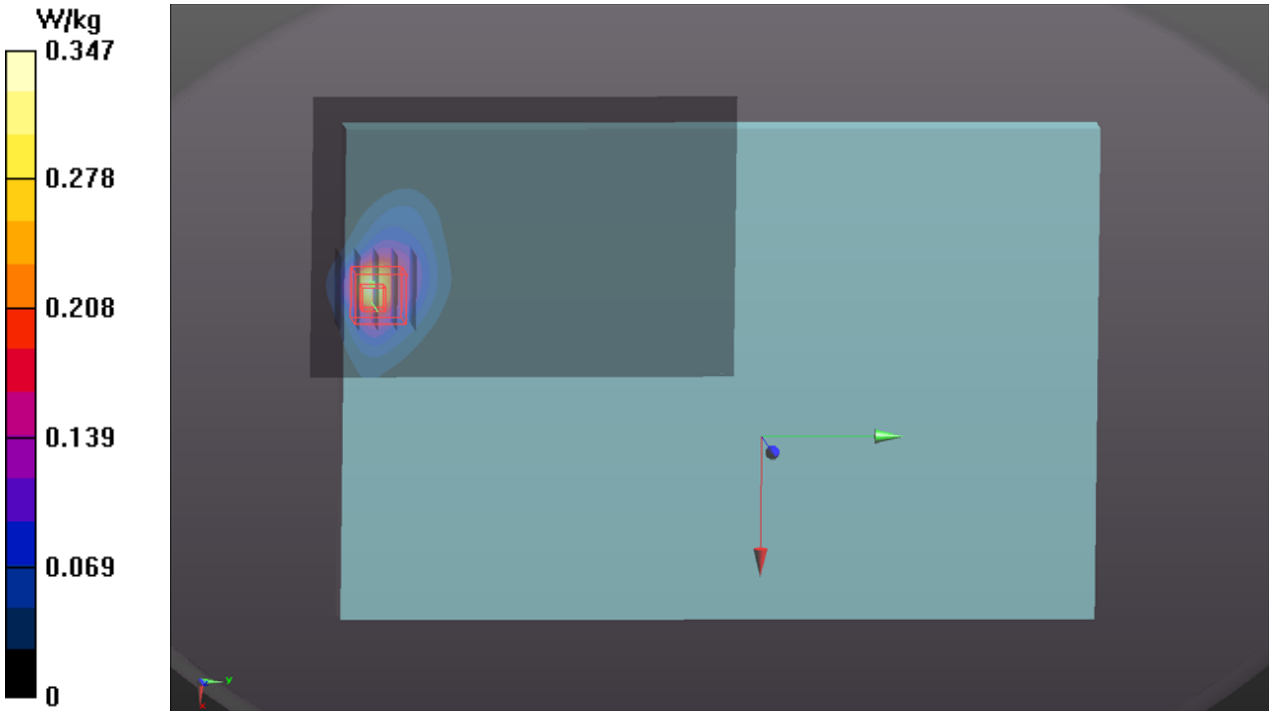
DUT: 190605C35

Communication System: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.3
Medium: H19T27N1_0712 Medium parameters used: f = 2441 MHz; σ = 1.866 S/m; ε_r = 38.443; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.64, 7.64, 7.64); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (101x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.347 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.39 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.434 W/kg
SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.00811 W/kg
Maximum value of SAR (measured) = 0.333 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/17

P25 BT_BDR_Bottom_0mm_Ch39_Ant1_Sample2

DUT: 190605C35

Communication System: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.3
Medium: H19T27N1_0717 Medium parameters used: f = 2441 MHz; σ = 1.82 S/m; ε_r = 38.618; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.64, 7.64, 7.64); Calibrated: 2018/12/13
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2019/01/24
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (101x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.140 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.839 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.285 W/kg
SAR(1 g) = 0.00831 W/kg; SAR(10 g) = 0.00611 W/kg
Maximum value of SAR (measured) = 0.228 W/kg