FCC SAR Test Report

Report No.	:	**SA141128C02**
Applicant	:	**TCL Communication Ltd.**
Address	:	**5F., C-Tower, No. 232, Liangjing Road, Zhangjiang High-tech Park, Pudong, Shanghai, China**
Product	:	**Mobile Hotspot Folio**
FCC ID	:	**2ACCJB005**
Brand	:	**ALCATEL ONETOUCH**
Model No.	:	**Y860OA**
Standards	:	**FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2003** **IEEE 1528a-2005 / KDB 865664 D01 v01r03** **KDB 248227 D01 v01r02 / KDB 447498 D01 v05r02 / KDB 616217 D04 v01r01** **KDB 941225 D01 v02 / KDB 941225 D02 v02r02 / KDB 941225 D05 v02r03**
Sample Received Date	:	**Nov. 28, 2014**
Date of Testing	:	**Dec. 30, 2014 ~ Jan. 09, 2015**

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., China Branch - Dongguan Lab**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by A2LA or any government agencies.

Prepared By : Vera Huang

Vera Huang / Specialist

Approved By : Gordon Lin

Gordon Lin / Assistant Manager

ACCREDITED
No: 2951.01

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Release Control Record

Report No.	Reason for Change	Date Issued
SA141128C02	Initial release	Jan. 12, 2015

1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Body SAR_{1g} (W/kg)
PCB	WCDMA II	1.39
	WCDMA V	0.52
	LTE 2	1.31
	LTE 4	1.28
	LTE 5	0.44
	LTE 7	0.77
	LTE 17	0.37
NII	5.8G WLAN	0.18
Highest Simultaneous Transmission SAR		Body (W/kg)
PCB + NII		1.55

Note:

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

2. Description of Equipment Under Test

EUT Type	Mobile Hotspot Folio
FCC ID	2ACCJB005
Brand Name	ALCATEL ONETOUCH
Model Name	Y860OA
Tx Frequency Bands (Unit: MHz)	WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band V : 826.4 ~ 846.6 LTE Band 2 : 1850.7 ~ 1909.3 (1.4M), 1851.5 ~ 1908.5 (3M), 1852.5 ~ 1907.5 (5M), 1855 ~ 1905 (10M), 1857.5 ~ 1902.5 (15M), 1860 ~ 1900 (20M) LTE Band 4 : 1710.7 ~ 1754.3 (1.4M), 1711.5 ~ 1753.5 (3M), 1712.5 ~ 1752.5 (5M), 1715 ~ 1750 (10M), 1717.5 ~ 1747.5 (15M), 1720 ~ 1745 (20M) LTE Band 5 : 824.7 ~ 848.3 (1.4M), 825.5 ~ 847.5 (3M), 826.5 ~ 846.5 (5M), 829 ~ 844 (10M) LTE Band 7 : 2502.5 ~ 2567.5 (5M), 2505 ~ 2565 (10M), 2507.5 ~ 2562.5 (15M), 2510 ~ 2560 (20M) LTE Band 17 : 706.5 ~ 713.5 (5M), 709 ~ 711 (10M) WLAN : 5745 ~ 5825
Uplink Modulations	WCDMA : QPSK LTE : QPSK, 16QAM 802.11a/n : OFDM
Maximum Tune-up Conducted Power (Unit: dBm)	WCDMA Band II : 24.0 WCDMA Band V : 23.5 LTE Band 2 : 23.0 LTE Band 4 : 23.0 LTE Band 5 : 22.5 LTE Band 7 : 23.0 LTE Band 17 : 23.5 WLAN 5.8G : 15.5
Antenna Type	Fixed Internal Antenna
EUT Stage	Identical Prototype

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

List of Accessory:

Battery	**Brand Name**	ALCATEL ONETOUCH
	Model Name	TLp046A2
	Power Rating	3.8Vdc, 4600mAh
	Type	Li-ion

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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 DASY System

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

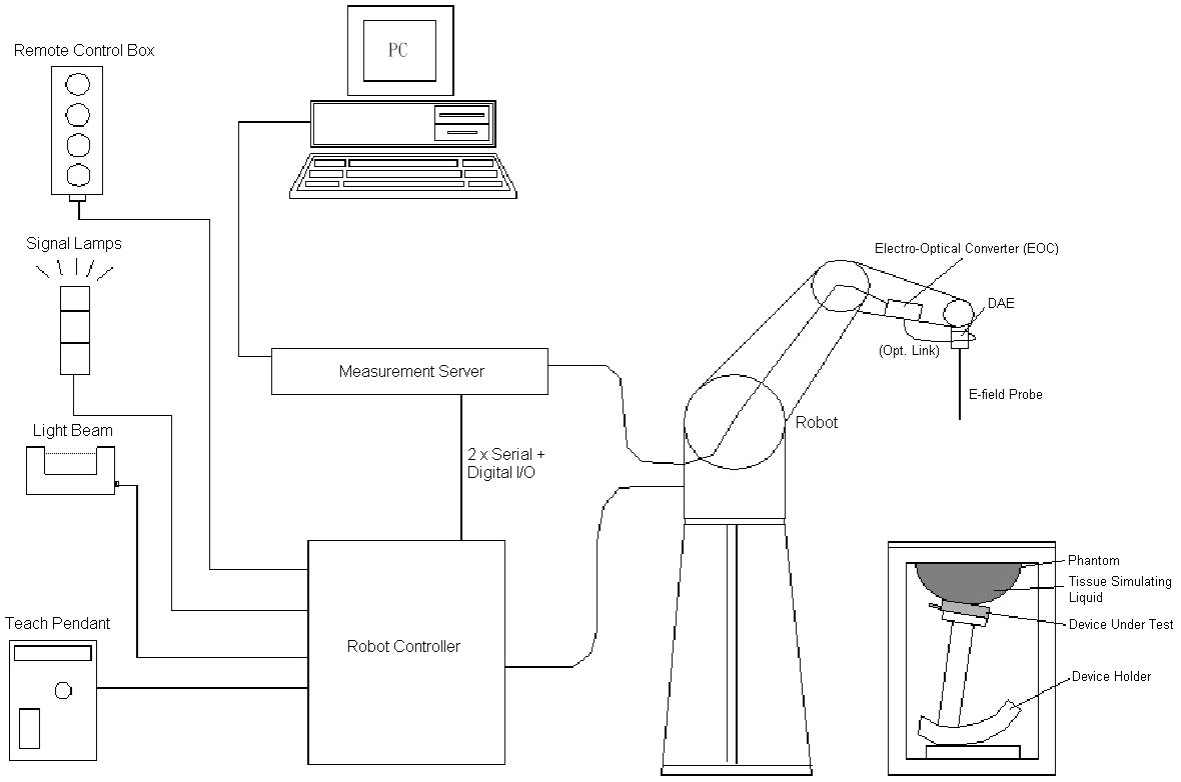


Fig-3.1 DASY System Setup

3.2.1 Robot

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

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

Fig-3.2 DASY5

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

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

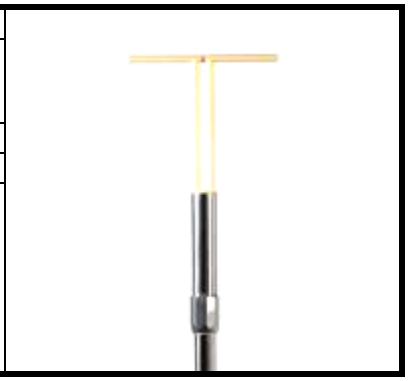
Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover 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	

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.

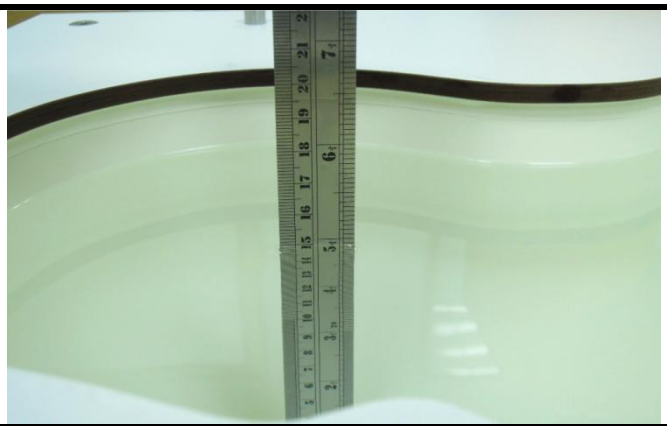
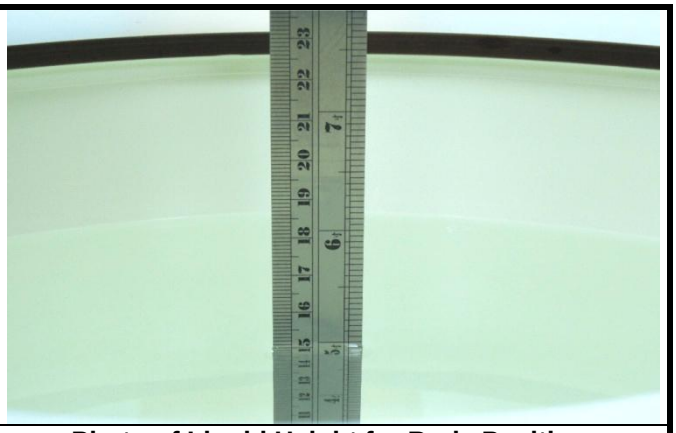
	

Photo of Liquid Height for Head Position	**Photo of Liquid Height for Body Position**

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%
For Head				
750	41.9	39.8 ~ 44.0	0.89	0.85 ~ 0.93
835	41.5	39.4 ~ 43.6	0.90	0.86 ~ 0.95
900	41.5	39.4 ~ 43.6	0.97	0.92 ~ 1.02
1450	40.5	38.5 ~ 42.5	1.20	1.14 ~ 1.26
1640	40.3	38.3 ~ 42.3	1.29	1.23 ~ 1.35
1750	40.1	38.1 ~ 42.1	1.37	1.30 ~ 1.44
1800	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
1900	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2000	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2300	39.5	37.5 ~ 41.5	1.67	1.59 ~ 1.75
2450	39.2	37.2 ~ 41.2	1.80	1.71 ~ 1.89
2600	39.0	37.1 ~ 41.0	1.96	1.86 ~ 2.06
3500	37.9	36.0 ~ 39.8	2.91	2.76 ~ 3.06
5200	36.0	34.2 ~ 37.8	4.66	4.43 ~ 4.89
5300	35.9	34.1 ~ 37.7	4.76	4.52 ~ 5.00
5500	35.6	33.8 ~ 37.4	4.96	4.71 ~ 5.21
5600	35.5	33.7 ~ 37.3	5.07	4.82 ~ 5.32
5800	35.3	33.5 ~ 37.1	5.27	5.01 ~ 5.53
For Body				
750	55.5	52.7 ~ 58.3	0.96	0.91 ~ 1.01
835	55.2	52.4 ~ 58.0	0.97	0.92 ~ 1.02
900	55.0	52.3 ~ 57.8	1.05	1.00 ~ 1.10
1450	54.0	51.3 ~ 56.7	1.30	1.24 ~ 1.37
1640	53.8	51.1 ~ 56.5	1.40	1.33 ~ 1.47
1750	53.4	50.7 ~ 56.1	1.49	1.42 ~ 1.56
1800	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
1900	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2000	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2300	52.9	50.3 ~ 55.5	1.81	1.72 ~ 1.90
2450	52.7	50.1 ~ 55.3	1.95	1.85 ~ 2.05
2600	52.5	49.9 ~ 55.1	2.16	2.05 ~ 2.27
3500	51.3	48.7 ~ 53.9	3.31	3.14 ~ 3.48
5200	49.0	46.6 ~ 51.5	5.30	5.04 ~ 5.57
5300	48.9	46.5 ~ 51.3	5.42	5.15 ~ 5.69
5500	48.6	46.2 ~ 51.0	5.65	5.37 ~ 5.93
5600	48.5	46.1 ~ 50.9	5.77	5.48 ~ 6.06
5800	48.2	45.8 ~ 50.6	6.00	5.70 ~ 6.30

The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
H750	0.2	-	0.2	1.5	56.0	-	42.1	-
H835	0.2	-	0.2	1.5	57.0	-	41.1	-
H900	0.2	-	0.2	1.4	58.0	-	40.2	-
H1450	-	43.3	-	0.6	-	-	56.1	-
H1640	-	45.8	-	0.5	-	-	53.7	-
H1750	-	47.0	-	0.4	-	-	52.6	-
H1800	-	44.5	-	0.3	-	-	55.2	-
H1900	-	44.5	-	0.2	-	-	55.3	-
H2000	-	44.5	-	0.1	-	-	55.4	-
H2300	-	44.9	-	0.1	-	-	55.0	-
H2450	-	45.0	-	0.1	-	-	54.9	-
H2600	-	45.1	-	0.1	-	-	54.8	-
H3500	-	8.0	-	0.2	-	20.0	71.8	-
H5G	-	-	-	-	-	17.2	65.5	17.3
B750	0.2	-	0.2	0.8	48.8	-	50.0	-
B835	0.2	-	0.2	0.9	48.5	-	50.2	-
B900	0.2	-	0.2	0.9	48.2	-	50.5	-
B1450	-	34.0	-	0.3	-	-	65.7	-
B1640	-	32.5	-	0.3	-	-	67.2	-
B1750	-	31.0	-	0.2	-	-	68.8	-
B1800	-	29.5	-	0.4	-	-	70.1	-
B1900	-	29.5	-	0.3	-	-	70.2	-
B2000	-	30.0	-	0.2	-	-	69.8	-
B2300	-	31.0	-	0.1	-	-	68.9	-
B2450	-	31.4	-	0.1	-	-	68.5	-
B2600	-	31.8	-	0.1	-	-	68.1	-
B3500	-	28.8	-	0.1	-	-	71.1	-
B5G	-	-	-	-	-	10.7	78.6	10.7

3.3 SAR System Verification

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

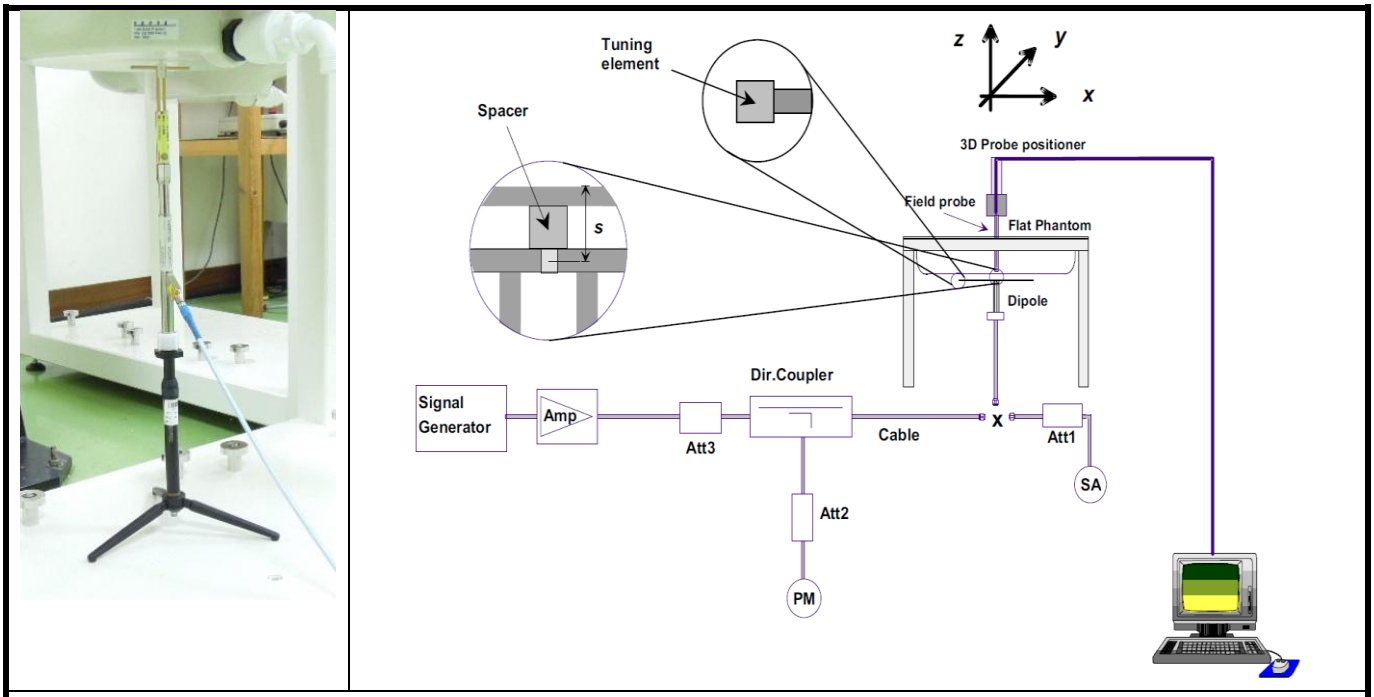


Fig-3.4 System Verification Setup

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

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 1.1 cm for EUT Front Face, 1.2 cm for EUT Rear Face, and 1.3 cm for Bottom Side. The separation distance of 1.3 cm determined by the smallest triggering distance on Bottom Side is used to assess the tilt angle influence and the sensor does not release during ±45 degree. Therefore, the smallest separation distance for tilt angle influence is 1.3 cm. The details can be found in technical document. The conservative triggering distances based on the separation distance for the sensor triggered / not triggered as EUT with power reduction at 0 mm, and EUT without power reduction at 1.1 cm for EUT Front Face, 1.2 cm for EUT Rear Face, and 1. cm for Bottom Side is used to test SAR.

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

The EUT is a data transmitter device that contains one WWAN transmitter (WCDMA / LTE). Confirming the LTE transmitter follows 3GPP standards, is category 3, FDD-LTE band 2/4 (BW 1.4/3/5/10/15/20 MHz), FDD-LTE band 5 (BW 1.4/3/5/10 MHz), FDD-LTE band 7 (BW 5/10/15/20 MHz), FDD-LTE band 17 (BW 5/10 MHz), supports QPSK / 16QAM modulations, and supports data transmission only. Tested per 3GPP 36.521 maximum transmit procedures for both QPSK / 16QAM.

LTE Maximum Power Reduction in accordance with 3GPP 36.101: Power Reduction in accordance to 3GPP is active all times during LTE operation.

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

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

In addition, the device is compliant with A-MPR requirements defined in 36.101 section 6.2.4 that may be required to meet 3GPP Adjacent Channel Leakage Ratio (“ACLR”) requirements. A-MPR was disabled for all FCC compliance testing.

The simultaneous transmission possibilities are listed as below.

Simultaneous Tx Combination	RF Configuration
1	WCDMA II (Data) + WLAN (Data)
2	WCDMA V (Data) + WLAN (Data)
3	LTE Band 2 (Data) + WLAN (Data)
4	LTE Band 4 (Data) + WLAN (Data)
5	LTE Band 5 (Data) + WLAN (Data)
6	LTE Band 7 (Data) + WLAN (Data)
7	LTE Band 17 (Data) + WLAN (Data)

Note: This device does not support voice transmission capability.

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

For WCDMA, head and body SAR is tested under 12.2k RMC mode with power control set all up bits. SAR for AMR is not required since its power is less than 1/4 dB higher than RMC. SAR for HSDPA/HSUPA is not required since its power is less than 1/4 dB higher than RMC without HSDPA/HSUPA and SAR for 12.2 kbps RMC is less than 75% of the SAR limit (1.2 W/kg).

For LTE, set the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB in base station simulator. When the EUT has registered and communicated to base station simulator, set the simulator to make EUT transmitting the maximum radiated power. The steps for system simulator (Anritsu MT8820C) setup are as below.

1. Press the “Std” button to select “LTE 22.20S” function
2. Choose the “Screen Select” item to “Fundamental Measurement”
3. Enter the “Common” item
4. Set the Operating Band
5. Set the Channel Bandwidth
6. Set the UL Channel & Frequency
7. Set the Modulation
8. Set the RB number and RB shift
9. Press “Start Call” button when EUT register to the system simulator
10. Set the TX-1 Max. Power to make the EUT transmit maximum output power

For WLAN SAR testing, the EUT has installed WLAN engineering testing software which can provide continuous transmitting RF signal. According to KDB 248227 D01, WLAN SAR should tested at the lowest data rate, and testing at higher data rate is not required when the maximum average output power is less than 1/4 dB higher than those measured at the lowest data rate. Since the WLAN power at lowest data rate has highest output power, WLAN SAR for this device was performed at the lowest data rate.

4.2 EUT Testing Position

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

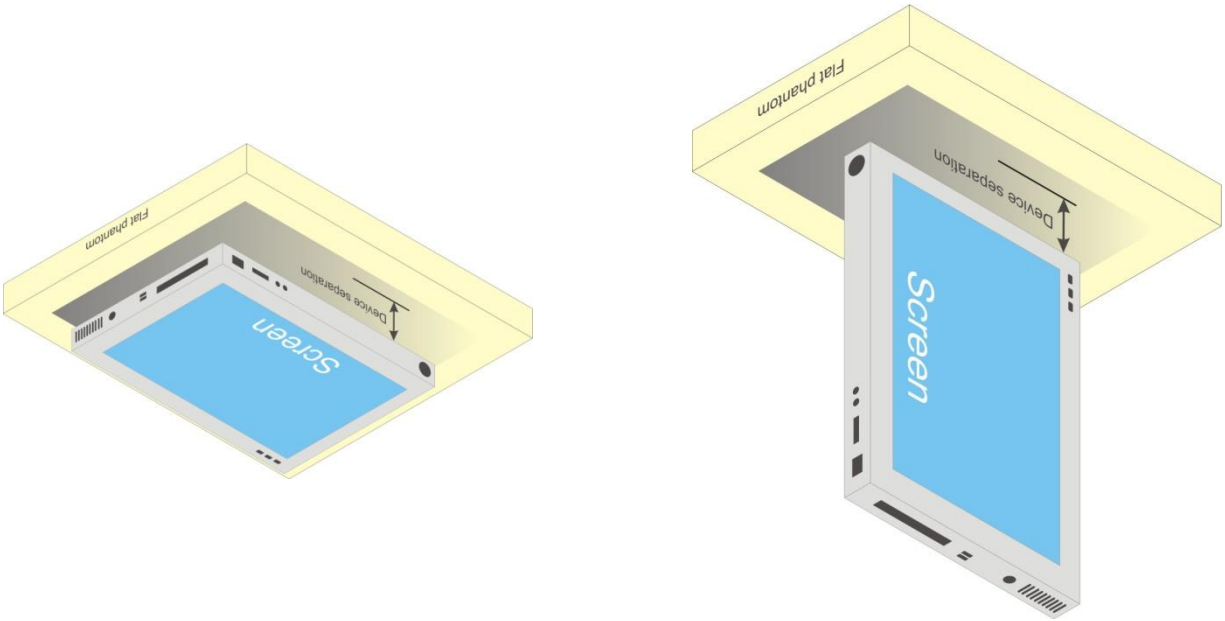


Fig-4.1 Illustration for Tablet Setup

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

1. For the test separation distance <= 50 mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

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

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

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

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

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

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WCDMA II	24.0	251	5	69.3	**Yes**	5	69.3	**Yes**	114	749 (mw)	No
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			25	13.9	**Yes**	137	979 (mw)	No	5	69.3	**Yes**
Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WCDMA V	23.5	224	5	41.2	**Yes**	5	41.2	**Yes**	114	524 (mw)	No
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			25	8.2	**Yes**	137	654 (mw)	No	5	41.2	**Yes**
Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
LTE 2	23.0	200	5	55.3	**Yes**	5	55.3	**Yes**	114	749 (mw)	No
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			25	11.1	**Yes**	137	979 (mw)	No	5	55.3	**Yes**
Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
LTE 4	23.0	200	5	53	**Yes**	5	53	**Yes**	114	753 (mw)	No
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			25	10.6	**Yes**	137	983 (mw)	No	5	53	**Yes**

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
LTE 5	22.5	178	5	32.8	**Yes**	5	32.8	**Yes**	114	524 (mw)	No
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			25	6.6	**Yes**	137	654 (mw)	No	5	32.8	**Yes**
Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
LTE 7	23.0	200	5	62.8	**Yes**	5	62.8	**Yes**	114	736 (mw)	No
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			25	12.6	**Yes**	137	966 (mw)	No	5	62.8	**Yes**
Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
LTE 17	23.5	224	5	37.9	**Yes**	5	37.9	**Yes**	114	482 (mw)	No
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			25	7.6	**Yes**	137	592 (mw)	No	5	37.9	**Yes**

Note:

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

<Ant-0>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WLAN 5.8G	12.0	16	5	7.7	**Yes**	5	7.7	**Yes**	5	7.7	**Yes**
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			207	1632 (mw)	No	104	602 (mw)	No	28	1.4	No

<Ant-1>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WLAN 5.8G	12.5	18	5	8.7	**Yes**	5	8.7	**Yes**	206	1622 (mw)	No
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			5	8.7	**Yes**	10	4.3	**Yes**	123	1.7	No

<Ant-0+1>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Front Face			Rear Face			Left Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WLAN 5.8G	15.5	35	5	16.9	**Yes**	5	16.9	**Yes**	5	16.9	**Yes**
			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
			5	16.9	**Yes**	10	8.4	**Yes**	28	3	No

Note:

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

4.3 Tissue Verification

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

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (℃)	Measured Conductivity (σ)	Measured Permittivity (ε_r)	Target Conductivity (σ)	Target Permittivity (ε_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Jan. 07, 2015	Body	750	20.7	0.969	55.447	0.96	55.5	0.94	-0.10
Jan. 07, 2015	Body	835	20.8	0.992	55.56	0.97	55.2	2.27	0.65
Jan. 02, 2015	Body	1750	21.2	1.462	54.513	1.49	53.4	-1.88	2.08
Dec. 30, 2014	Body	1900	20.9	1.552	54.013	1.52	53.3	2.11	1.34
Jan. 08, 2015	Body	2600	21.1	2.2	52.401	2.16	52.5	1.85	-0.19
Jan. 09, 2015	Body	5800	21.5	6.221	47.4	6	48.2	3.68	-1.66

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
Jan. 07, 2015	3873	Body	750	0.969	55.447	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 07, 2015	3873	Body	835	0.992	55.56	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 02, 2015	3873	Body	1750	1.462	54.513	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 30, 2014	3873	Body	1900	1.552	54.013	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 08, 2015	3873	Body	2600	2.2	52.401	Pass	Pass	Pass	N/A	N/A	N/A
Jan. 09, 2015	3873	Body	5800	6.221	47.4	Pass	Pass	Pass	OFDM	N/A	Pass

4.5 System Verification

The measuring result for system verification is tabulated as below.

Test Date	Mode	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Jan. 07, 2015	Body	750	8.83	2.24	8.96	1.47	1067	3873	1341
Jan. 07, 2015	Body	835	9.53	2.41	9.64	1.15	4d139	3873	1341
Jan. 02, 2015	Body	1750	39.00	9.7	38.80	-0.51	1071	3873	1341
Dec. 30, 2014	Body	1900	41.10	10.4	41.60	1.22	5d159	3873	1341
Jan. 08, 2015	Body	2600	56.50	13.7	54.80	-3.01	1020	3873	1341
Jan. 09, 2015	Body	5800	74.00	6.83	68.30	-7.70	1133	3873	1341

Note:

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

4.6 Maximum Output Power

4.6.1 Maximum Conducted Power

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

Mode	WCDMA Band II (without Power Reduction)	WCDMA Band II (with Power Reduction)	Power Reduction (dBm)
RMC 12.2K	24.0	16.0	8.0
HSDPA	23.0	15.0	8.0
HSUPA	23.0	15.0	8.0

Mode	WCDMA Band V (without Power Reduction)	WCDMA Band V (with Power Reduction)	Power Reduction (dBm)
RMC 12.2K	23.5	15.5	8.0
HSDPA	22.5	14.5	8.0
HSUPA	22.5	14.5	8.0

Mode	LTE 2 (without Power Reduction)	LTE 2 (with Power Reduction)	Power Reduction (dBm)
QPSK / 16QAM	23.0	15.0	8.0

Mode	LTE 4 (without Power Reduction)	LTE 4 (with Power Reduction)	Power Reduction (dBm)
QPSK / 16QAM	23.0	15.0	8.0

Mode	LTE 5 (without Power Reduction)	LTE 5 (with Power Reduction)	Power Reduction (dBm)
QPSK / 16QAM	22.5	15.0	7.5

Mode	LTE 7 (without Power Reduction)	LTE 7 (with Power Reduction)	Power Reduction (dBm)
QPSK / 16QAM	23.0	15.0	8.0

Mode	LTE 17 (without Power Reduction)	LTE 17 (with Power Reduction)	Power Reduction (dBm)
QPSK / 16QAM	23.5	15.0	8.5

Mode	5.8G WLAN
802.11a	Ant-0: 12.0 Ant-1: 12.5 Ant-0+1: 15.5
802.11n HT20	Ant-0: 10.0 Ant-1: 10.5 Ant-0+1: 13.0

4.6.2 Measured Conducted Power Result

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

Band	WCDMA Band II			WCDMA Band V			3GPP MPR (dB)
Channel	9262	9400	9538	4132	4182	4233	
Frequency (MHz)	1852.4	1880.0	1907.6	826.4	836.4	846.6	
EUT without Power Reduction (P-Sensor NOT Triggered)							
RMC 12.2K	23.38	23.50	**23.63**	22.82	23.03	**23.21**	-
HSDPA Subtest-1	22.31	22.36	22.45	21.83	22.07	22.25	0
HSDPA Subtest-2	22.30	22.37	22.48	21.84	22.08	22.27	0
HSDPA Subtest-3	21.85	21.99	22.07	21.33	21.63	21.71	0.5
HSDPA Subtest-4	21.95	21.90	21.98	21.34	21.53	21.73	0.5
HSUPA Subtest-1	22.21	22.37	22.47	21.96	22.10	22.18	0
HSUPA Subtest-2	20.34	20.42	20.50	19.90	19.89	20.19	2
HSUPA Subtest-3	21.26	21.36	21.48	20.85	20.97	21.12	1
HSUPA Subtest-4	20.33	20.41	20.58	20.01	20.27	20.31	2
HSUPA Subtest-5	22.29	22.33	22.49	21.81	22.04	22.27	0
EUT with Power Reduction (P-Sensor Triggered)							
RMC 12.2K	**15.89**	15.59	15.76	15.09	**15.27**	15.08	-
HSDPA Subtest-1	14.56	14.22	13.76	13.78	14.18	14.10	-
HSDPA Subtest-2	14.55	14.30	13.75	13.76	14.15	14.07	-
HSDPA Subtest-3	14.02	13.81	13.26	13.33	13.70	13.60	-
HSDPA Subtest-4	14.03	13.82	13.30	13.35	13.72	13.64	-
HSUPA Subtest-1	14.40	14.07	13.92	14.16	13.97	13.96	-
HSUPA Subtest-2	12.47	12.36	12.06	12.37	12.26	12.16	-
HSUPA Subtest-3	13.26	13.02	12.88	12.97	12.98	13.00	-
HSUPA Subtest-4	12.50	12.18	12.08	12.18	12.17	12.11	-
HSUPA Subtest-5	14.56	14.30	13.76	14.04	14.19	14.10	-

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18607	Mid CH 18900	High CH 19193		Low CH 18607	Mid CH 18900	High CH 19193	
			1850.7 MHz	1880.0 MHz	1909.3 MHz		1850.7 MHz	1880.0 MHz	1909.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 1.4M	1	0	22.21	22.22	22.46	0	21.18	20.86	21.23	1
	1	2	22.02	21.73	22.24	0	20.99	21.17	21.24	1
	1	5	21.75	22.18	22.34	0	20.97	21.02	21.28	1
	3	0	21.81	21.82	22.45	0	20.67	20.80	21.32	1
	3	1	21.80	21.86	22.39	0	20.88	20.95	21.52	1
	3	3	21.93	21.98	22.43	0	20.94	20.96	21.55	1
	6	0	20.87	20.81	21.40	1	19.79	19.86	20.41	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 1.4M	1	0	14.55	14.59	14.52	0	14.46	14.58	14.27	0
	1	2	14.33	14.16	14.12	0	14.57	14.50	14.32	0
	1	5	14.28	14.11	14.16	0	14.45	14.31	13.93	0
	3	0	14.56	14.57	14.55	0	14.34	13.94	13.91	0
	3	1	14.35	14.13	13.98	0	14.33	13.88	13.93	0
	3	3	14.32	14.01	14.11	0	14.31	13.63	13.74	0
	6	0	14.32	14.45	14.27	0	14.29	14.25	14.04	0

Band / BW	RB Size	RB Offset	QPSK Low CH 18615 1851.5 MHz	QPSK Mid CH 18900 1880.0 MHz	QPSK High CH 19185 1908.5 MHz	3GPP MPR (dB)	16QAM Low CH 18615 1851.5 MHz	16QAM Mid CH 18900 1880.0 MHz	16QAM High CH 19185 1908.5 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 3M	1	0	22.24	22.25	22.49	0	21.21	20.89	21.26	1
	1	7	22.05	21.76	22.27	0	21.02	21.21	21.20	1
	1	14	21.78	22.21	22.37	0	21.00	21.05	21.27	1
	8	0	20.96	21.01	21.52	1	19.70	19.83	20.35	2
	8	3	20.83	20.89	21.42	1	19.91	19.98	20.55	2
	8	7	20.84	20.85	21.51	1	19.97	19.99	20.58	2
	15	0	20.90	20.84	21.43	1	19.82	19.89	20.44	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 3M	1	0	14.58	14.62	14.55	0	14.49	14.61	14.30	0
	1	7	14.36	14.19	14.15	0	14.60	14.53	14.35	0
	1	14	14.31	14.14	14.19	0	14.48	14.34	13.96	0
	8	0	14.59	14.60	14.58	0	14.37	13.97	13.94	0
	8	3	14.38	14.16	14.01	0	14.36	13.91	13.96	0
	8	7	14.35	14.04	14.14	0	14.34	13.66	13.77	0
	15	0	14.35	14.48	14.30	0	14.32	14.28	14.07	0

Band / BW	RB Size	RB Offset	QPSK Low CH 18625 1852.5 MHz	QPSK Mid CH 18900 1880.0 MHz	QPSK High CH 19175 1907.5 MHz	3GPP MPR (dB)	16QAM Low CH 18625 1852.5 MHz	16QAM Mid CH 18900 1880.0 MHz	16QAM High CH 19175 1907.5 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 5M	1	0	22.26	22.27	22.51	0	21.23	20.91	21.28	1
	1	12	22.07	21.78	22.29	0	21.04	21.23	21.22	1
	1	24	21.80	22.23	22.39	0	21.02	21.07	21.29	1
	12	0	20.98	21.03	21.54	1	19.72	19.85	20.37	2
	12	6	20.85	20.91	21.44	1	19.93	20.00	20.57	2
	12	13	20.86	20.87	21.53	1	19.99	20.01	20.60	2
	25	0	20.92	20.86	21.45	1	19.84	19.91	20.46	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 5M	1	0	14.62	14.66	14.59	0	14.53	14.65	14.34	0
	1	12	14.40	14.23	14.19	0	14.64	14.57	14.39	0
	1	24	14.35	14.18	14.23	0	14.52	14.38	14.00	0
	12	0	14.63	14.64	14.62	0	14.41	14.01	13.98	0
	12	6	14.42	14.20	14.05	0	14.40	13.95	14.00	0
	12	13	14.39	14.08	14.18	0	14.38	13.70	13.81	0
	25	0	14.39	14.52	14.34	0	14.36	14.32	14.11	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18650 1855.0 MHz	Mid CH 18900 1880.0 MHz	High CH 19150 1905.0 MHz		Low CH 18650 1855.0 MHz	Mid CH 18900 1880.0 MHz	High CH 19150 1905.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 10M	1	0	22.29	22.30	22.54	0	21.26	20.94	21.31	1
	1	24	22.10	21.81	22.32	0	21.07	21.26	21.25	1
	1	49	21.83	22.26	22.42	0	21.05	21.10	21.32	1
	25	0	21.01	21.06	21.57	1	19.75	19.88	20.40	2
	25	12	20.88	20.94	21.47	1	19.96	20.03	20.60	2
	25	25	20.89	20.90	21.56	1	20.02	20.04	20.63	2
	50	0	20.95	20.89	21.48	1	19.87	19.94	20.49	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 10M	1	0	14.65	14.69	14.62	0	14.56	14.68	14.37	0
	1	24	14.43	14.26	14.22	0	14.67	14.60	14.42	0
	1	49	14.38	14.21	14.26	0	14.55	14.41	14.03	0
	25	0	14.66	14.67	14.65	0	14.44	14.04	14.01	0
	25	12	14.45	14.23	14.08	0	14.43	13.98	14.03	0
	25	25	14.42	14.11	14.21	0	14.41	13.73	13.84	0
	50	0	14.42	14.55	14.37	0	14.39	14.35	14.14	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18675 1857.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19125 1902.5 MHz		Low CH 18675 1857.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19125 1902.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 15M	1	0	22.34	22.35	22.59	0	21.31	20.99	21.36	1
	1	37	22.15	21.86	22.37	0	21.12	21.31	21.30	1
	1	74	21.88	22.31	22.47	0	21.10	21.15	21.37	1
	36	0	21.06	21.11	21.62	1	19.80	19.93	20.45	2
	36	19	20.93	20.99	21.52	1	20.01	20.08	20.65	2
	36	39	20.94	20.95	21.61	1	20.07	20.09	20.68	2
	75	0	21.00	20.94	21.53	1	19.92	19.99	20.54	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 15M	1	0	14.70	14.74	14.67	0	14.61	14.73	14.42	0
	1	37	14.48	14.31	14.27	0	14.72	14.65	14.47	0
	1	74	14.43	14.26	14.31	0	14.60	14.46	14.08	0
	36	0	14.71	14.72	14.70	0	14.49	14.09	14.06	0
	36	19	14.50	14.28	14.13	0	14.48	14.03	14.08	0
	36	39	14.47	14.16	14.26	0	14.46	13.78	13.89	0
	75	0	14.47	14.60	14.42	0	14.44	14.40	14.19	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18700	Mid CH 18900	High CH 19100		Low CH 18700	Mid CH 18900	High CH 19100	
			1860.0 MHz	1880.0 MHz	1900.0 MHz		1860.0 MHz	1880.0 MHz	1900.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
2 / 20M	1	0	22.38	22.39	**22.63**	0	21.35	21.03	21.40	1
	1	50	22.19	21.90	22.41	0	21.16	21.35	21.34	1
	1	99	21.92	22.35	22.51	0	21.14	21.19	21.41	1
	50	0	21.10	21.15	21.66	1	19.84	19.97	20.49	2
	50	25	20.97	21.03	21.56	1	20.05	20.12	20.69	2
	50	50	20.98	20.99	21.65	1	20.11	20.13	20.72	2
	100	0	21.04	20.98	21.57	1	19.96	20.03	20.58	2
EUT with Power Reduction (P-Sensor Triggered)										
2 / 20M	1	0	14.74	**14.78**	14.71	0	14.65	14.77	14.46	0
	1	50	14.52	14.35	14.31	0	14.76	14.69	14.51	0
	1	99	14.47	14.30	14.35	0	14.64	14.50	14.12	0
	50	0	14.75	14.76	14.74	0	14.53	14.13	14.10	0
	50	25	14.54	14.32	14.17	0	14.52	14.07	14.12	0
	50	50	14.51	14.20	14.30	0	14.50	13.82	13.93	0
	100	0	14.51	14.64	14.46	0	14.48	14.44	14.23	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19957	Mid CH 20175	High CH 20393		Low CH 19957	Mid CH 20175	High CH 20393	
			1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 1.4M	1	0	22.29	22.16	22.18	0	21.12	21.12	21.19	1
	1	2	22.01	21.93	21.62	0	21.20	21.04	20.74	1
	1	5	22.05	21.71	21.61	0	21.02	20.79	20.79	1
	3	0	22.28	21.91	21.74	0	21.26	21.01	20.82	1
	3	1	22.05	21.90	21.63	0	21.10	20.94	20.64	1
	3	3	22.04	21.77	21.52	0	21.03	20.81	20.55	1
	6	0	21.32	21.17	21.14	1	20.10	19.94	19.68	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 1.4M	1	0	14.31	14.34	14.38	0	14.27	14.30	14.37	0
	1	2	14.18	13.99	14.15	0	14.31	14.34	14.22	0
	1	5	14.05	14.18	14.07	0	14.09	14.33	14.36	0
	3	0	14.27	14.26	14.29	0	13.87	14.14	14.33	0
	3	1	14.15	14.18	14.13	0	13.88	14.18	14.13	0
	3	3	14.08	14.25	14.09	0	13.86	14.23	14.09	0
	6	0	14.16	14.19	14.25	0	14.06	14.19	14.20	0

Band / BW	RB Size	RB Offset	QPSK Low CH 19965 1711.5 MHz	QPSK Mid CH 20175 1732.5 MHz	QPSK High CH 20385 1753.5 MHz	3GPP MPR (dB)	16QAM Low CH 19965 1711.5 MHz	16QAM Mid CH 20175 1732.5 MHz	16QAM High CH 20385 1753.5 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 3M	1	0	22.32	22.19	22.21	0	21.15	21.15	21.22	1
	1	7	22.04	21.96	21.65	0	21.23	21.07	20.77	1
	1	14	22.08	21.74	21.64	0	21.05	20.82	20.82	1
	8	0	21.34	21.24	21.17	1	20.29	20.04	19.85	2
	8	3	21.08	20.93	20.66	1	20.13	19.97	19.67	2
	8	7	21.07	20.80	20.55	1	20.06	19.84	19.58	2
	15	0	21.35	21.20	21.17	1	20.13	19.97	19.71	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 3M	1	0	14.34	14.37	14.41	0	14.30	14.33	14.40	0
	1	7	14.21	14.02	14.18	0	14.34	14.37	14.25	0
	1	14	14.08	14.21	14.10	0	14.12	14.36	14.39	0
	8	0	14.30	14.29	14.32	0	13.90	14.17	14.36	0
	8	3	14.18	14.21	14.16	0	13.91	14.21	14.16	0
	8	7	14.11	14.28	14.12	0	13.89	14.26	14.12	0
	15	0	14.19	14.22	14.28	0	14.09	14.22	14.23	0

Band / BW	RB Size	RB Offset	QPSK Low CH 19975 1712.5 MHz	QPSK Mid CH 20175 1732.5 MHz	QPSK High CH 20375 1752.5 MHz	3GPP MPR (dB)	16QAM Low CH 19975 1712.5 MHz	16QAM Mid CH 20175 1732.5 MHz	16QAM High CH 20375 1752.5 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 5M	1	0	22.35	22.22	22.24	0	21.18	21.18	21.25	1
	1	12	22.07	21.99	21.68	0	21.26	21.10	20.80	1
	1	24	22.11	21.77	21.67	0	21.08	20.85	20.85	1
	12	0	21.37	21.27	21.20	1	20.32	20.07	19.88	2
	12	6	21.11	20.96	20.69	1	20.16	20.00	19.70	2
	12	13	21.10	20.83	20.58	1	20.09	19.87	19.61	2
	25	0	21.38	21.23	21.20	1	20.16	20.00	19.74	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 5M	1	0	14.36	14.39	14.43	0	14.32	14.35	14.42	0
	1	12	14.23	14.04	14.20	0	14.36	14.39	14.27	0
	1	24	14.10	14.23	14.12	0	14.14	14.38	14.41	0
	12	0	14.32	14.31	14.34	0	13.92	14.19	14.38	0
	12	6	14.20	14.23	14.18	0	13.93	14.23	14.18	0
	12	13	14.13	14.30	14.14	0	13.91	14.28	14.14	0
	25	0	14.21	14.24	14.30	0	14.11	14.24	14.25	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20000	Mid CH 20175	High CH 20350		Low CH 20000	Mid CH 20175	High CH 20350	
			1715.0 MHz	1732.5 MHz	1750.0 MHz		1715.0 MHz	1732.5 MHz	1750.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 10M	1	0	22.39	22.26	22.28	0	21.22	21.22	21.29	1
	1	24	22.11	22.03	21.72	0	21.30	21.14	20.84	1
	1	49	22.15	21.81	21.71	0	21.12	20.89	20.89	1
	25	0	21.41	21.31	21.24	1	20.36	20.11	19.92	2
	25	12	21.15	21.00	20.73	1	20.20	20.04	19.74	2
	25	25	21.14	20.87	20.62	1	20.13	19.91	19.65	2
	50	0	21.42	21.27	21.24	1	20.20	20.04	19.78	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 10M	1	0	14.41	14.44	14.48	0	14.37	14.40	14.47	0
	1	24	14.28	14.09	14.25	0	14.41	14.44	14.32	0
	1	49	14.15	14.28	14.17	0	14.19	14.43	14.46	0
	25	0	14.37	14.36	14.39	0	13.97	14.24	14.43	0
	25	12	14.25	14.28	14.23	0	13.98	14.28	14.23	0
	25	25	14.18	14.35	14.19	0	13.96	14.33	14.19	0
	50	0	14.26	14.29	14.35	0	14.16	14.29	14.30	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20025	Mid CH 20175	High CH 20325		Low CH 20025	Mid CH 20175	High CH 20325	
			1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 15M	1	0	22.43	22.30	22.32	0	21.26	21.26	21.33	1
	1	37	22.15	22.07	21.76	0	21.34	21.18	20.88	1
	1	74	22.19	21.85	21.75	0	21.16	20.93	20.93	1
	36	0	21.45	21.35	21.28	1	20.40	20.15	19.96	2
	36	19	21.19	21.04	20.77	1	20.24	20.08	19.78	2
	36	39	21.18	20.91	20.66	1	20.17	19.95	19.69	2
	75	0	21.46	21.31	21.28	1	20.24	20.08	19.82	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 15M	1	0	14.44	14.47	14.51	0	14.40	14.43	14.50	0
	1	37	14.31	14.12	14.28	0	14.44	14.47	14.35	0
	1	74	14.18	14.31	14.20	0	14.22	14.46	14.49	0
	36	0	14.40	14.39	14.42	0	14.00	14.27	14.46	0
	36	19	14.28	14.31	14.26	0	14.01	14.31	14.26	0
	36	39	14.21	14.38	14.22	0	13.99	14.36	14.22	0
	75	0	14.29	14.32	14.38	0	14.19	14.32	14.33	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20050	Mid CH 20175	High CH 20300		Low CH 20050	Mid CH 20175	High CH 20300	
			1720.0 MHz	1732.5 MHz	1745.0 MHz		1720.0 MHz	1732.5 MHz	1745.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
4 / 20M	1	0	**22.46**	22.33	22.35	0	21.29	21.29	21.36	1
	1	50	22.18	22.10	21.79	0	21.37	21.21	20.91	1
	1	99	22.22	21.88	21.78	0	21.19	20.96	20.96	1
	50	0	21.48	21.38	21.31	1	20.43	20.18	19.99	2
	50	25	21.22	21.07	20.80	1	20.27	20.11	19.81	2
	50	50	21.21	20.94	20.69	1	20.20	19.98	19.72	2
	100	0	21.49	21.34	21.31	1	20.27	20.11	19.85	2
EUT with Power Reduction (P-Sensor Triggered)										
4 / 20M	1	0	14.48	14.51	**14.55**	0	14.44	14.47	14.54	0
	1	50	14.35	14.16	14.32	0	14.48	14.51	14.39	0
	1	99	14.22	14.35	14.24	0	14.26	14.50	14.53	0
	50	0	14.44	14.43	14.46	0	14.04	14.31	14.50	0
	50	25	14.32	14.35	14.30	0	14.05	14.35	14.30	0
	50	50	14.25	14.42	14.26	0	14.03	14.40	14.26	0
	100	0	14.33	14.36	14.42	0	14.23	14.36	14.37	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20407	Mid CH 20525	High CH 20643		Low CH 20407	Mid CH 20525	High CH 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
5 / 1.4M	1	0	21.97	22.06	22.17	0	20.93	21.13	21.17	1
	1	2	21.81	21.94	22.11	0	20.93	20.82	20.97	1
	1	5	21.95	22.04	22.13	0	20.83	21.09	21.06	1
	3	0	21.79	21.95	21.96	0	21.07	20.91	21.18	1
	3	1	21.80	21.87	22.01	0	20.91	20.95	20.96	1
	3	3	21.93	21.90	22.16	0	20.97	21.12	21.07	1
	6	0	20.98	20.96	21.23	1	19.98	19.90	20.14	2
EUT with Power Reduction (P-Sensor Triggered)										
5 / 1.4M	1	0	14.52	14.48	14.53	0	14.48	14.31	14.34	0
	1	2	14.20	14.00	14.11	0	14.13	14.33	14.14	0
	1	5	14.48	14.38	14.26	0	14.41	14.52	14.32	0
	3	0	14.21	14.19	14.11	0	14.04	14.06	14.06	0
	3	1	14.03	13.83	13.93	0	13.88	13.92	14.05	0
	3	3	14.38	14.32	14.44	0	14.06	14.04	14.08	0
	6	0	14.29	14.31	14.45	0	14.03	14.11	14.08	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20415	Mid CH 20525	High CH 20635		Low CH 20415	Mid CH 20525	High CH 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
5 / 3M	1	0	22.01	22.10	22.21	0	20.97	21.17	21.21	1
	1	7	21.85	21.98	22.15	0	20.97	20.86	21.01	1
	1	14	21.99	22.08	22.17	0	20.87	21.13	21.10	1
	8	0	20.83	20.94	21.00	1	20.11	19.95	20.22	2
	8	3	20.84	20.91	21.05	1	19.95	19.99	20.00	2
	8	7	20.97	20.99	21.23	1	20.01	20.16	20.11	2
	15	0	21.02	21.00	21.27	1	20.02	19.94	20.18	2
EUT with Power Reduction (P-Sensor Triggered)										
5 / 3M	1	0	14.56	14.52	14.57	0	14.52	14.35	14.38	0
	1	7	14.24	14.04	14.15	0	14.17	14.37	14.18	0
	1	14	14.52	14.42	14.30	0	14.45	14.56	14.36	0
	8	0	14.25	14.23	14.15	0	14.08	14.10	14.10	0
	8	3	14.07	13.87	13.97	0	13.92	13.96	14.09	0
	8	7	14.42	14.36	14.48	0	14.10	14.08	14.12	0
	15	0	14.33	14.35	14.49	0	14.07	14.15	14.12	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20425	Mid CH 20525	High CH 20625		Low CH 20425	Mid CH 20525	High CH 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
5 / 5M	1	0	22.04	22.13	22.24	0	21.00	21.20	21.24	1
	1	12	21.88	22.01	22.18	0	21.00	20.89	21.04	1
	1	24	22.02	22.11	22.20	0	20.90	21.16	21.13	1
	12	0	20.86	20.97	21.03	1	20.14	19.98	20.25	2
	12	6	20.87	20.94	21.08	1	19.98	20.02	20.03	2
	12	13	21.00	21.02	21.26	1	20.04	20.19	20.14	2
	25	0	21.05	21.03	21.30	1	20.05	19.97	20.21	2
EUT with Power Reduction (P-Sensor Triggered)										
5 / 5M	1	0	14.61	14.57	14.62	0	14.57	14.40	14.43	0
	1	12	14.29	14.09	14.20	0	14.22	14.42	14.23	0
	1	24	14.57	14.47	14.35	0	14.50	14.61	14.41	0
	12	0	14.30	14.28	14.20	0	14.13	14.15	14.15	0
	12	6	14.12	13.92	14.02	0	13.97	14.01	14.14	0
	12	13	14.47	14.41	14.53	0	14.15	14.13	14.17	0
	25	0	14.38	14.40	14.54	0	14.12	14.20	14.17	0

Band / BW	RB Size	RB Offset	QPSK Low CH 20450 829.0 MHz	QPSK Mid CH 20525 836.5 MHz	QPSK High CH 20600 844.0 MHz	3GPP MPR (dB)	16QAM Low CH 20450 829.0 MHz	16QAM Mid CH 20525 836.5 MHz	16QAM High CH 20600 844.0 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
5 / 10M	1	0	22.08	22.17	**22.28**	0	21.04	21.24	21.28	1
	1	24	21.92	22.05	22.22	0	21.04	20.93	21.08	1
	1	49	22.06	22.15	22.24	0	20.94	21.20	21.17	1
	25	0	20.90	21.01	21.07	1	20.18	20.02	20.29	2
	25	12	20.91	20.98	21.12	1	20.02	20.06	20.07	2
	25	25	21.04	21.06	21.30	1	20.08	20.23	20.18	2
	50	0	21.09	21.07	21.34	1	20.09	20.01	20.25	2
EUT with Power Reduction (P-Sensor Triggered)										
5 / 10M	1	0	14.64	14.60	**14.65**	0	14.60	14.43	14.46	0
	1	24	14.32	14.12	14.23	0	14.25	14.45	14.26	0
	1	49	14.60	14.50	14.38	0	14.53	14.64	14.44	0
	25	0	14.33	14.31	14.23	0	14.16	14.18	14.18	0
	25	12	14.15	13.95	14.05	0	14.00	14.04	14.17	0
	25	25	14.50	14.44	14.56	0	14.18	14.16	14.20	0
	50	0	14.41	14.43	14.57	0	14.15	14.23	14.20	0

Band / BW	RB Size	RB Offset	QPSK Low CH 20775 2502.5 MHz	QPSK Mid CH 21100 2535.0 MHz	QPSK High CH 21425 2567.5 MHz	3GPP MPR (dB)	16QAM Low CH 20775 2502.5 MHz	16QAM Mid CH 21100 2535.0 MHz	16QAM High CH 21425 2567.5 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
7 / 5M	1	0	22.51	22.68	22.49	0	21.23	21.76	21.59	1
	1	12	22.23	22.41	22.48	0	21.33	21.71	21.61	1
	1	24	22.22	22.24	22.48	0	21.33	21.75	21.58	1
	12	0	21.20	21.47	21.55	1	20.38	20.42	20.54	2
	12	6	21.50	21.66	21.64	1	20.26	20.65	20.56	2
	12	13	21.26	21.51	21.57	1	20.23	20.60	20.60	2
	25	0	21.15	21.64	21.48	1	20.09	20.63	20.59	2
EUT with Power Reduction (P-Sensor Triggered)										
7 / 5M	1	0	14.27	14.39	14.36	0	14.24	14.30	13.83	0
	1	12	13.91	14.24	14.29	0	14.28	14.18	14.31	0
	1	24	13.78	13.81	14.09	0	14.19	14.10	14.24	0
	12	0	14.29	14.35	14.34	0	13.52	14.07	13.89	0
	12	6	13.91	14.21	14.31	0	13.58	14.06	14.22	0
	12	13	13.65	13.81	14.20	0	13.57	13.62	14.11	0
	25	0	13.77	14.33	14.26	0	13.48	13.97	14.00	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20800	Mid CH 21100	High CH 21400		Low CH 20800	Mid CH 21100	High CH 21400	
			2505.0 MHz	2535.0 MHz	2565.0 MHz		2505.0 MHz	2535.0 MHz	2565.0 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
7 / 10M	1	0	22.56	22.73	22.54	0	21.28	21.81	21.64	1
	1	24	22.28	22.46	22.53	0	21.38	21.76	21.66	1
	1	49	22.27	22.29	22.53	0	21.38	21.80	21.63	1
	25	0	21.25	21.52	21.60	1	20.43	20.47	20.59	2
	25	12	21.55	21.71	21.69	1	20.31	20.70	20.61	2
	25	25	21.31	21.56	21.62	1	20.28	20.65	20.65	2
	50	0	21.20	21.69	21.53	1	20.14	20.68	20.64	2
EUT with Power Reduction (P-Sensor Triggered)										
7 / 10M	1	0	14.33	14.45	14.42	0	14.30	14.36	13.89	0
	1	24	13.97	14.30	14.35	0	14.34	14.24	14.37	0
	1	49	13.84	13.87	14.15	0	14.25	14.16	14.30	0
	25	0	14.35	14.41	14.40	0	13.58	14.13	13.95	0
	25	12	13.97	14.27	14.37	0	13.64	14.12	14.28	0
	25	25	13.71	13.87	14.26	0	13.63	13.68	14.17	0
	50	0	13.83	14.39	14.32	0	13.54	14.03	14.06	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20825	Mid CH 21100	High CH 21375		Low CH 20825	Mid CH 21100	High CH 21375	
			2507.5 MHz	2535.0 MHz	2562.5 MHz		2507.5 MHz	2535.0 MHz	2562.5 MHz	
EUT without Power Reduction (P-Sensor NOT Triggered)										
7 / 15M	1	0	22.60	22.77	22.58	0	21.32	21.85	21.68	1
	1	37	22.32	22.50	22.57	0	21.42	21.80	21.70	1
	1	74	22.31	22.33	22.57	0	21.42	21.84	21.67	1
	36	0	21.29	21.56	21.64	1	20.47	20.51	20.63	2
	36	19	21.59	21.75	21.73	1	20.35	20.74	20.65	2
	36	39	21.35	21.60	21.66	1	20.32	20.69	20.69	2
	75	0	21.24	21.73	21.57	1	20.18	20.72	20.68	2
EUT with Power Reduction (P-Sensor Triggered)										
7 / 15M	1	0	14.38	14.50	14.47	0	14.35	14.41	13.94	0
	1	37	14.02	14.35	14.40	0	14.39	14.29	14.42	0
	1	74	13.89	13.92	14.20	0	14.30	14.21	14.35	0
	36	0	14.40	14.46	14.45	0	13.63	14.18	14.00	0
	36	19	14.02	14.32	14.42	0	13.69	14.17	14.33	0
	36	39	13.76	13.92	14.31	0	13.68	13.73	14.22	0
	75	0	13.88	14.44	14.37	0	13.59	14.08	14.11	0

Band / BW	RB Size	RB Offset	QPSK Low CH 20850 2510.0 MHz	QPSK Mid CH 21100 2535.0 MHz	QPSK High CH 21350 2560.0 MHz	3GPP MPR (dB)	16QAM Low CH 20850 2510.0 MHz	16QAM Mid CH 21100 2535.0 MHz	16QAM High CH 21350 2560.0 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
7 / 20M	1	0	22.63	**22.80**	22.61	0	21.35	21.88	21.71	1
	1	50	22.35	22.53	22.60	0	21.45	21.83	21.73	1
	1	99	22.34	22.36	22.60	0	21.45	21.87	21.70	1
	50	0	21.32	21.59	21.67	1	20.50	20.54	20.66	2
	50	25	21.62	21.78	21.76	1	20.38	20.77	20.68	2
	50	50	21.38	21.63	21.69	1	20.35	20.72	20.72	2
	100	0	21.27	21.76	21.60	1	20.21	20.75	20.71	2
EUT with Power Reduction (P-Sensor Triggered)										
7 / 20M	1	0	14.41	**14.53**	14.50	0	14.38	14.44	13.97	0
	1	50	14.05	14.38	14.43	0	14.42	14.32	14.45	0
	1	99	13.92	13.95	14.23	0	14.33	14.24	14.38	0
	50	0	14.43	14.49	14.48	0	13.66	14.21	14.03	0
	50	25	14.05	14.35	14.45	0	13.72	14.20	14.36	0
	50	50	13.79	13.95	14.34	0	13.71	13.76	14.25	0
	100	0	13.91	14.47	14.40	0	13.62	14.11	14.14	0

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 23755 706.5 MHz	QPSK Mid CH 23790 710.0 MHz	QPSK High CH 23825 713.5 MHz	3GPP MPR (dB)	16QAM Low CH 23755 706.5 MHz	16QAM Mid CH 23790 710.0 MHz	16QAM High CH 23825 713.5 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
17 / 5M	1	0	22.79	22.81	22.82	0	21.66	21.78	21.81	1
	1	12	22.75	22.74	22.64	0	21.74	21.56	21.60	1
	1	24	22.55	22.66	22.74	0	21.62	21.67	21.80	1
	12	0	21.76	21.69	21.74	1	20.84	20.89	20.87	2
	12	6	21.79	21.71	21.72	1	20.60	20.77	20.82	2
	12	13	21.80	21.75	21.96	1	20.83	20.73	20.97	2
	25	0	21.73	21.76	21.79	1	20.75	20.77	20.88	2
EUT with Power Reduction (P-Sensor Triggered)										
17 / 5M	1	0	14.49	14.38	14.50	0	14.27	14.24	13.96	0
	1	12	14.19	14.14	14.14	0	14.20	14.15	13.90	0
	1	24	14.23	14.15	14.16	0	14.33	14.37	14.38	0
	12	0	13.77	13.92	14.25	0	13.80	13.75	13.82	0
	12	6	13.96	13.98	14.10	0	13.79	13.80	13.78	0
	12	13	14.35	14.37	14.39	0	13.90	14.09	14.10	0
	25	0	14.31	14.24	14.38	0	13.88	13.89	13.85	0

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 23780 709.0 MHz	QPSK Mid CH 23790 710.0 MHz	QPSK High CH 23800 711.0 MHz	3GPP MPR (dB)	16QAM Low CH 23780 709.0 MHz	16QAM Mid CH 23790 710.0 MHz	16QAM High CH 23800 711.0 MHz	3GPP MPR (dB)
EUT without Power Reduction (P-Sensor NOT Triggered)										
17 / 10M	1	0	22.83	22.85	**22.86**	0	21.70	21.82	21.85	1
	1	24	22.79	22.78	22.68	0	21.78	21.60	21.64	1
	1	49	22.59	22.70	22.78	0	21.66	21.71	21.84	1
	25	0	21.80	21.73	21.78	1	20.88	20.93	20.91	2
	25	12	21.83	21.75	21.76	1	20.64	20.81	20.86	2
	25	25	21.84	21.79	22.00	1	20.87	20.77	21.01	2
	50	0	21.77	21.80	21.83	1	20.79	20.81	20.92	2
EUT with Power Reduction (P-Sensor Triggered)										
17 / 10M	1	0	14.55	14.44	**14.56**	0	14.33	14.30	14.02	0
	1	24	14.25	14.20	14.20	0	14.26	14.21	13.96	0
	1	49	14.29	14.21	14.22	0	14.39	14.43	14.44	0
	25	0	13.83	13.98	14.31	0	13.86	13.81	13.88	0
	25	12	14.02	14.04	14.16	0	13.85	13.86	13.84	0
	25	25	14.41	14.43	14.45	0	13.96	14.15	14.16	0
	50	0	14.37	14.30	14.44	0	13.94	13.95	13.91	0

<WLAN 5.8G>

Mode	802.11a				
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)	165 (5825)
Average Power (Ant-0)	11.72	11.65	11.53	11.56	11.62
Average Power (Ant-1)	12.34	11.84	11.43	11.27	11.07
Average Power (Ant-0 + Ant-1)	**15.05**	14.76	14.49	14.43	14.36
Mode	**802.11n (HT20)**				
Channel / Frequency (MHz)	**149 (5745)**	**153 (5765)**	**157 (5785)**	**161 (5805)**	**165 (5825)**
Average Power (Ant-0)	9.21	9.28	9.33	9.41	9.48
Average Power (Ant-1)	10.18	9.76	9.32	9.21	9.03
Average Power (Ant-0 + Ant-1)	**12.73**	12.54	12.34	12.32	12.27

4.7 SAR Testing Results

4.7.1 SAR Results for Body

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WCDMA II	RMC12.2K	Front Face	0	9262	w/	16.0	15.89	1.03	-0.09	1.17	1.20
	WCDMA II	RMC12.2K	Front Face	1.1	9538	w/o	24.0	23.63	1.09	0.16	0.624	0.68
01	WCDMA II	RMC12.2K	Rear Face	0	9262	w/	16.0	15.89	1.03	0.06	1.36	**1.39**
	WCDMA II	RMC12.2K	Rear Face	1.2	9538	w/o	24.0	23.63	1.09	0.18	0.826	0.90
	WCDMA II	RMC12.2K	Right Side	0	9538	w/o	24.0	23.63	1.09	0.11	0.093	0.10
	WCDMA II	RMC12.2K	Bottom Side	0	9262	w/	16.0	15.89	1.03	0.04	0.775	0.79
	WCDMA II	RMC12.2K	Bottom Side	1.3	9538	w/o	24.0	23.63	1.09	0.08	0.614	0.67
	WCDMA II	RMC12.2K	Front Face	0	9400	w/	16.0	15.59	1.10	-0.11	0.975	1.07
	WCDMA II	RMC12.2K	Front Face	0	9538	w/	16.0	15.76	1.06	-0.09	0.912	0.96
	WCDMA II	RMC12.2K	Rear Face	0	9400	w/	16.0	15.59	1.10	0.07	1.19	1.31
	WCDMA II	RMC12.2K	Rear Face	0	9538	w/	16.0	15.76	1.06	0.12	1.06	1.12
	WCDMA II	RMC12.2K	Rear Face	1.2	9262	w/o	24.0	23.38	1.15	0.01	0.732	0.84
	WCDMA II	RMC12.2K	Rear Face	1.2	9400	w/o	24.0	23.50	1.12	-0.03	0.77	0.86
	WCDMA II	RMC12.2K	Rear Face	0	9262	w/	16.0	15.89	1.03	0.18	1.35	1.38
	WCDMA V	RMC12.2K	Front Face	0	4182	w/	15.5	15.27	1.05	0.07	0.205	0.22
02	WCDMA V	RMC12.2K	Front Face	1.1	4233	w/o	23.5	23.21	1.07	0.02	0.491	**0.52**
	WCDMA V	RMC12.2K	Rear Face	0	4182	w/	15.5	15.27	1.05	0.01	0.175	0.18
	WCDMA V	RMC12.2K	Rear Face	1.2	4233	w/o	23.5	23.21	1.07	0.17	0.302	0.32
	WCDMA V	RMC12.2K	Right Side	0	4233	w/o	23.5	23.21	1.07	-0.06	0.34	0.36
	WCDMA V	RMC12.2K	Bottom Side	0	4182	w/	15.5	15.27	1.05	0.16	0.058	0.06
	WCDMA V	RMC12.2K	Bottom Side	1.3	4233	w/o	23.5	23.21	1.07	0.09	0.115	0.12

Note:

1. SAR is performed on the highest power channel. When the reported SAR value of highest power channel is <= 0.8 W/kg, SAR testing for optional channel is not required.

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 2	QPSK20M	Front Face	0	18900	w/	1	0	15.0	14.78	1.05	-0.1	0.967	1.02
	LTE 2	QPSK20M	Front Face	1.1	19100	w/o	1	0	23.0	22.63	1.09	-0.1	0.957	1.04
03	LTE 2	QPSK20M	Rear Face	0	18900	w/	1	0	15.0	14.78	1.05	-0.04	1.25	**1.31**
	LTE 2	QPSK20M	Rear Face	1.2	19100	w/o	1	0	23.0	22.63	1.09	0.09	0.855	0.93
	LTE 2	QPSK20M	Right Side	0	19100	w/o	1	0	23.0	22.63	1.09	0.14	0.095	0.10
	LTE 2	QPSK20M	Bottom Side	0	18900	w/	1	0	15.0	14.78	1.05	-0.02	0.698	0.73
	LTE 2	QPSK20M	Bottom Side	1.3	19100	w/o	1	0	23.0	22.63	1.09	-0.18	0.673	0.73
	LTE 2	QPSK20M	Front Face	0	18900	w/	50	0	15.0	14.76	1.06	0.13	0.981	1.04
	LTE 2	QPSK20M	Front Face	1.1	19100	w/o	50	0	22.0	21.66	1.08	0.06	0.751	0.81
	LTE 2	QPSK20M	Rear Face	0	18900	w/	50	0	15.0	14.76	1.06	-0.01	1.23	1.30
	LTE 2	QPSK20M	Rear Face	1.2	19100	w/o	50	0	22.0	21.66	1.08	-0.01	0.635	0.69
	LTE 2	QPSK20M	Right Side	0	19100	w/o	50	0	22.0	21.66	1.08	-0.05	0.071	0.08
	LTE 2	QPSK20M	Bottom Side	0	18900	w/	50	0	15.0	14.76	1.06	0.03	0.694	0.73
	LTE 2	QPSK20M	Bottom Side	1.3	19100	w/o	50	0	22.0	21.66	1.08	-0.02	0.574	0.62
	LTE 2	QPSK20M	Front Face	0	18700	w/	1	0	15.0	14.74	1.06	0.09	0.911	0.97
	LTE 2	QPSK20M	Front Face	0	19100	w/	1	0	15.0	14.71	1.07	0.02	0.963	1.03
	LTE 2	QPSK20M	Front Face	1.1	18700	w/o	1	0	23.0	22.38	1.15	-0.15	0.801	0.92
	LTE 2	QPSK20M	Front Face	1.1	18900	w/o	1	0	23.0	22.39	1.15	-0.01	0.92	1.06
	LTE 2	QPSK20M	Rear Face	0	18700	w/	1	0	15.0	14.74	1.06	-0.07	1.22	1.30
	LTE 2	QPSK20M	Rear Face	0	19100	w/	1	0	15.0	14.71	1.07	-0.11	1.15	1.23
	LTE 2	QPSK20M	Rear Face	1.2	18700	w/o	1	0	23.0	22.38	1.15	0.05	0.716	0.83
	LTE 2	QPSK20M	Rear Face	1.2	18900	w/o	1	0	23.0	22.39	1.15	0.14	0.787	0.91
	LTE 2	QPSK20M	Front Face	0	18700	w/	50	0	15.0	14.75	1.06	-0.11	0.965	1.02
	LTE 2	QPSK20M	Front Face	0	19100	w/	50	0	15.0	14.74	1.06	-0.19	1.09	1.16
	LTE 2	QPSK20M	Front Face	1.1	18700	w/o	50	0	22.0	21.10	1.23	-0.04	0.643	0.79
	LTE 2	QPSK20M	Front Face	1.1	18900	w/o	50	0	22.0	21.15	1.22	-0.16	0.718	0.87
	LTE 2	QPSK20M	Rear Face	0	18700	w/	50	0	15.0	14.75	1.06	0.17	1.24	1.31
	LTE 2	QPSK20M	Rear Face	0	19100	w/	50	0	15.0	14.74	1.06	0.05	1.12	1.19
	LTE 2	QPSK20M	Front Face	0	18900	w/	100	0	15.0	14.64	1.09	0.11	0.954	1.04
	LTE 2	QPSK20M	Front Face	1.1	19100	w/o	100	0	22.0	21.57	1.10	0.16	0.764	0.84
	LTE 2	QPSK20M	Rear Face	0	18900	w/	100	0	15.0	14.64	1.09	-0.11	1.19	1.29
	LTE 2	QPSK20M	Rear Face	1.2	19100	w/o	100	0	22.0	21.57	1.10	0.13	0.677	0.75
	LTE 2	QPSK20M	Rear Face	0	18900	w/	1	0	15.0	14.78	1.05	-0.16	1.24	1.30

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 4	QPSK20M	Front Face	0	20300	w/	1	0	15.0	14.55	1.11	0.11	0.879	0.97
	LTE 4	QPSK20M	Front Face	1.1	20050	w/o	1	0	23.0	22.46	1.13	0.18	0.816	0.92
	LTE 4	QPSK20M	Rear Face	0	20300	w/	1	0	15.0	14.55	1.11	0.03	1	1.11
	LTE 4	QPSK20M	Rear Face	1.2	20050	w/o	1	0	23.0	22.46	1.13	0.18	0.789	0.89
	LTE 4	QPSK20M	Right Side	0	20050	w/o	1	0	23.0	22.46	1.13	0.08	0.093	0.11
	LTE 4	QPSK20M	Bottom Side	0	20300	w/	1	0	15.0	14.55	1.11	0.03	0.892	0.99
	LTE 4	QPSK20M	Bottom Side	1.3	20050	w/o	1	0	23.0	22.46	1.13	0.03	0.613	0.69
	LTE 4	QPSK20M	Front Face	0	20300	w/	50	0	15.0	14.46	1.13	-0.06	0.884	1.00
	LTE 4	QPSK20M	Front Face	1.1	20050	w/o	50	0	22.0	21.48	1.13	-0.07	0.655	0.74
04	LTE 4	QPSK20M	Rear Face	0	20300	w/	50	0	15.0	14.46	1.13	-0.11	1.13	**1.28**
	LTE 4	QPSK20M	Rear Face	1.2	20050	w/o	50	0	22.0	21.48	1.13	-0.19	0.635	0.72
	LTE 4	QPSK20M	Right Side	0	20050	w/o	50	0	22.0	21.48	1.13	0.08	0.074	0.08
	LTE 4	QPSK20M	Bottom Side	0	20300	w/	50	0	15.0	14.46	1.13	0.14	0.866	0.98
	LTE 4	QPSK20M	Bottom Side	1.3	20050	w/o	50	0	22.0	21.48	1.13	-0.04	0.489	0.55
	LTE 4	QPSK20M	Front Face	0	20050	w/	1	0	15.0	14.48	1.13	-0.04	0.907	1.02
	LTE 4	QPSK20M	Front Face	0	20175	w/	1	0	15.0	14.51	1.12	-0.02	0.873	0.98
	LTE 4	QPSK20M	Front Face	1.1	20175	w/o	1	0	23.0	22.33	1.17	0	0.787	0.92
	LTE 4	QPSK20M	Front Face	1.1	20300	w/o	1	0	23.0	22.35	1.16	-0.05	0.796	0.92
	LTE 4	QPSK20M	Rear Face	0	20050	w/	1	0	15.0	14.48	1.13	0.05	1.07	1.21
	LTE 4	QPSK20M	Rear Face	0	20175	w/	1	0	15.0	14.51	1.12	-0.16	1.06	1.19
	LTE 4	QPSK20M	Rear Face	1.2	20175	w/o	1	0	23.0	22.33	1.17	0.03	0.77	0.90
	LTE 4	QPSK20M	Rear Face	1.2	20300	w/o	1	0	23.0	22.35	1.16	0.12	0.774	0.90
	LTE 4	QPSK20M	Bottom Side	0	20050	w/	1	0	15.0	14.48	1.13	0.05	0.875	0.99
	LTE 4	QPSK20M	Bottom Side	0	20175	w/	1	0	15.0	14.51	1.12	0.08	0.853	0.95
	LTE 4	QPSK20M	Front Face	0	20050	w/	50	0	15.0	14.44	1.14	0.1	0.894	1.02
	LTE 4	QPSK20M	Front Face	0	20175	w/	50	0	15.0	14.43	1.14	-0.08	0.83	0.95
	LTE 4	QPSK20M	Rear Face	0	20050	w/	50	0	15.0	14.44	1.14	0.05	1.09	1.24
	LTE 4	QPSK20M	Rear Face	0	20175	w/	50	0	15.0	14.43	1.14	-0.14	1.11	1.27
	LTE 4	QPSK20M	Bottom Side	0	20050	w/	50	0	15.0	14.44	1.14	0.11	0.875	1.00
	LTE 4	QPSK20M	Bottom Side	0	20175	w/	50	0	15.0	14.43	1.14	0.08	0.827	0.94
	LTE 4	QPSK20M	Front Face	0	20300	w/	100	0	15.0	14.42	1.14	-0.16	0.871	1.00
	LTE 4	QPSK20M	Front Face	1.1	20050	w/o	100	0	22.0	21.49	1.12	-0.05	0.701	0.79
	LTE 4	QPSK20M	Rear Face	0	20300	w/	100	0	15.0	14.42	1.14	-0.16	1.1	1.26
	LTE 4	QPSK20M	Rear Face	1.2	20050	w/o	100	0	22.0	21.49	1.12	0.12	0.622	0.70
	LTE 4	QPSK20M	Bottom Side	0	20300	w/	100	0	15.0	14.42	1.14	0.12	0.884	1.01
	LTE 4	QPSK20M	Rear Face	0	20300	w/	50	0	15.0	14.46	1.13	0.18	1.1	1.25

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Front Face	0	20600	w/	1	0	15.0	14.65	1.08	0.07	0.211	0.23
05	LTE 5	QPSK10M	Front Face	1.1	20600	w/o	1	0	22.5	22.28	1.05	0	0.418	**0.44**
	LTE 5	QPSK10M	Rear Face	0	20600	w/	1	0	15.0	14.65	1.08	0.15	0.182	0.20
	LTE 5	QPSK10M	Rear Face	1.2	20600	w/o	1	0	22.5	22.28	1.05	0.04	0.335	0.35
	LTE 5	QPSK10M	Right Side	0	20600	w/o	1	0	22.5	22.28	1.05	0.07	0.374	0.39
	LTE 5	QPSK10M	Bottom Side	0	20600	w/	1	0	15.0	14.65	1.08	0.09	0.063	0.07
	LTE 5	QPSK10M	Bottom Side	1.3	20600	w/o	1	0	22.5	22.28	1.05	-0.01	0.093	0.10
	LTE 5	QPSK10M	Front Face	0	20600	w/	25	25	15.0	14.56	1.11	0.11	0.225	0.25
	LTE 5	QPSK10M	Front Face	1.1	20600	w/o	25	25	21.5	21.30	1.05	0.02	0.332	0.35
	LTE 5	QPSK10M	Rear Face	0	20600	w/	25	25	15.0	14.56	1.11	0.03	0.195	0.22
	LTE 5	QPSK10M	Rear Face	1.2	20600	w/o	25	25	21.5	21.30	1.05	0.13	0.311	0.33
	LTE 5	QPSK10M	Right Side	0	20600	w/o	25	25	21.5	21.30	1.05	0.03	0.279	0.29
	LTE 5	QPSK10M	Bottom Side	0	20600	w/	25	25	15.0	14.56	1.11	0.16	0.061	0.07
	LTE 5	QPSK10M	Bottom Side	1.3	20600	w/o	25	25	21.5	21.30	1.05	0	0.075	0.08
	LTE 7	QPSK20M	Front Face	0	21100	w/	1	0	15.0	14.53	1.11	0.07	0.277	0.31
	LTE 7	QPSK20M	Front Face	1.1	21100	w/o	1	0	23.0	22.80	1.05	0.01	0.454	0.48
	LTE 7	QPSK20M	Rear Face	0	21100	w/	1	0	15.0	14.53	1.11	0.09	0.669	0.75
	LTE 7	QPSK20M	Rear Face	1.2	21100	w/o	1	0	23.0	22.80	1.05	0.08	0.475	0.50
	LTE 7	QPSK20M	Right Side	0	21100	w/o	1	0	23.0	22.80	1.05	-0.1	0.011	0.01
	LTE 7	QPSK20M	Bottom Side	0	21100	w/	1	0	15.0	14.53	1.11	0.17	0.176	0.20
	LTE 7	QPSK20M	Bottom Side	1.3	21100	w/o	1	0	23.0	22.80	1.05	0.17	0.294	0.31
	LTE 7	QPSK20M	Front Face	0	21100	w/	50	0	15.0	14.49	1.12	0.05	0.273	0.31
	LTE 7	QPSK20M	Front Face	1.1	21100	w/o	50	25	22.0	21.78	1.05	-0.05	0.371	0.39
06	LTE 7	QPSK20M	Rear Face	0	21100	w/	50	0	15.0	14.49	1.12	0.08	0.682	**0.77**
	LTE 7	QPSK20M	Rear Face	1.2	21100	w/o	50	25	22.0	21.78	1.05	0.13	0.388	0.41
	LTE 7	QPSK20M	Right Side	0	21100	w/o	50	25	22.0	21.78	1.05	0.18	0.01	0.01
	LTE 7	QPSK20M	Bottom Side	0	21100	w/	50	0	15.0	14.49	1.12	0.07	0.173	0.19
	LTE 7	QPSK20M	Bottom Side	1.3	21100	w/o	50	25	22.0	21.78	1.05	-0.15	0.233	0.25

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 17	QPSK10M	Front Face	0	23800	w/	1	0	15.0	14.56	1.11	0.18	0.182	0.20
	LTE 17	QPSK10M	Front Face	1.1	23800	w/o	1	0	23.5	22.86	1.16	-0.04	0.254	0.29
	LTE 17	QPSK10M	Rear Face	0	23800	w/	1	0	15.0	14.56	1.11	-0.11	0.258	0.29
07	LTE 17	QPSK10M	Rear Face	1.2	23800	w/o	1	0	23.5	22.86	1.16	0.1	0.317	**0.37**
	LTE 17	QPSK10M	Right Side	0	23800	w/o	1	0	23.5	22.86	1.16	0	0.111	0.13
	LTE 17	QPSK10M	Bottom Side	0	23800	w/	1	0	15.0	14.56	1.11	-0.09	0.048	0.05
	LTE 17	QPSK10M	Bottom Side	1.3	23800	w/o	1	0	23.5	22.86	1.16	-0.03	0.039	0.05
	LTE 17	QPSK10M	Front Face	0	23800	w/	25	25	15.0	14.45	1.14	-0.01	0.183	0.21
	LTE 17	QPSK10M	Front Face	1.1	23800	w/o	25	25	22.5	22.00	1.12	0.04	0.213	0.24
	LTE 17	QPSK10M	Rear Face	0	23800	w/	25	25	15.0	14.45	1.14	0.16	0.305	0.35
	LTE 17	QPSK10M	Rear Face	1.2	23800	w/o	25	25	22.5	22.00	1.12	-0.04	0.262	0.29
	LTE 17	QPSK10M	Right Side	0	23800	w/o	25	25	22.5	22.00	1.12	0.05	0.095	0.11
	LTE 17	QPSK10M	Bottom Side	0	23800	w/	25	25	15.0	14.45	1.14	0.08	0.047	0.05
	LTE 17	QPSK10M	Bottom Side	1.3	23800	w/o	25	25	22.5	22.00	1.12	0.03	0.033	0.04

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

Plot No.	Band	Test Position	Separation Distance (cm)	Ch.	Tx Antenna	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	802.11a	Front Face	0	149	0	12.0	11.72	1.07	0.08	0.114	0.12
	802.11a	Rear Face	0	149	0	12.0	11.72	1.07	-0.04	0.141	0.15
08	802.11a	Left Side	0	149	0	12.0	11.72	1.07	0.12	0.166	**0.18**
	802.11a	Front Face	0	149	1	12.5	12.34	1.04	0.08	0.049	0.05
	802.11a	Rear Face	0	149	1	12.5	12.34	1.04	-0.06	0.157	0.16
	802.11a	Right Side	0	149	1	12.5	12.34	1.04	0.06	0.134	0.14
	802.11a	Top Side	0	149	1	12.5	12.34	1.04	0.16	0.00881	0.01
	802.11a	Front Face	0	149	0+1	15.5	15.05	1.11	0.02	0.106	0.12
	802.11a	Rear Face	0	149	0+1	15.5	15.05	1.11	0.12	0.122	0.14
	802.11a	Left Side	0	149	0+1	15.5	15.05	1.11	-0.06	0.135	0.15
	802.11a	Right Side	0	149	0+1	15.5	15.05	1.11	0.06	0.105	0.12
	802.11a	Top Side	0	149	0+1	15.5	15.05	1.11	-0.04	0.00772	0.01

Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is <= 1.6 W/kg and the 1g averaged SAR is <= 0.8 W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11n is not required when its maximum power is less than 1/4 dB higher than 802.11a.

4.7.2 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	Separation Distance (cm)	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 II	RMC12.2K	Rear Face	0	9262	1.36	1.35	1.01	N/A	N/A	N/A	N/A
LTE 2	QPSK20M	Rear Face	0	18900	1.25	1.24	1.01	N/A	N/A	N/A	N/A
LTE 4	QPSK20M	Rear Face	0	20300	1.13	1.1	1.03	N/A	N/A	N/A	N/A

4.7.3 Simultaneous Multi-band Transmission Evaluation

<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.

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Estimated SAR (W/kg)
WCDMA II	1.907	24.0	Body	5	0.4
WCDMA V	0.846	23.5	Body	5	0.4
LTE 2	1.908	23.0	Body	5	0.4
LTE 4	1.753	23.0	Body	5	0.4
LTE 5	0.847	22.5	Body	5	0.4
LTE 7	2.568	23.0	Body	5	0.4
LTE 17	0.714	23.5	Body	5	0.4
WLAN (NII)	5.825	16.0	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>

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.

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
1	WCDMA II + WLAN (NII)	Body	Front Face	1.20	0.12	1.32	Σ SAR < 1.6, Not required
			Rear Face	1.39	0.16	1.55	Σ SAR < 1.6, Not required
			Left Side	0.40	0.18	0.58	Σ SAR < 1.6, Not required
			Right Side	0.10	0.14	0.24	Σ SAR < 1.6, Not required
			Top Side	0.40	0.01	0.41	Σ SAR < 1.6, Not required
			Bottom Side	0.79	0.40	1.19	Σ SAR < 1.6, Not required
2	WCDMA V + WLAN (NII)	Body	Front Face	0.52	0.12	0.64	Σ SAR < 1.6, Not required
			Rear Face	0.32	0.16	0.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.18	0.58	Σ SAR < 1.6, Not required
			Right Side	0.36	0.14	0.50	Σ SAR < 1.6, Not required
			Top Side	0.40	0.01	0.41	Σ SAR < 1.6, Not required
			Bottom Side	0.12	0.40	0.52	Σ SAR < 1.6, Not required
3	LTE 2 + WLAN (NII)	Body	Front Face	1.16	0.12	1.28	Σ SAR < 1.6, Not required
			Rear Face	1.31	0.16	1.47	Σ SAR < 1.6, Not required
			Left Side	0.40	0.18	0.58	Σ SAR < 1.6, Not required
			Right Side	0.10	0.14	0.24	Σ SAR < 1.6, Not required
			Top Side	0.40	0.01	0.41	Σ SAR < 1.6, Not required
			Bottom Side	0.73	0.40	1.13	Σ SAR < 1.6, Not required
4	LTE 4 + WLAN (NII)	Body	Front Face	1.02	0.12	1.14	Σ SAR < 1.6, Not required
			Rear Face	1.28	0.16	1.44	Σ SAR < 1.6, Not required
			Left Side	0.40	0.18	0.58	Σ SAR < 1.6, Not required
			Right Side	0.11	0.14	0.25	Σ SAR < 1.6, Not required
			Top Side	0.40	0.01	0.41	Σ SAR < 1.6, Not required
			Bottom Side	1.01	0.40	1.41	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
5	LTE 5 + WLAN (NII)	Body	Front Face	0.44	0.12	0.56	Σ SAR < 1.6, Not required
			Rear Face	0.35	0.16	0.51	Σ SAR < 1.6, Not required
			Left Side	0.40	0.18	0.58	Σ SAR < 1.6, Not required
			Right Side	0.39	0.14	0.53	Σ SAR < 1.6, Not required
			Top Side	0.40	0.01	0.41	Σ SAR < 1.6, Not required
			Bottom Side	0.10	0.40	0.50	Σ SAR < 1.6, Not required
6	LTE 7 + WLAN (NII)	Body	Front Face	0.48	0.12	0.60	Σ SAR < 1.6, Not required
			Rear Face	0.77	0.16	0.93	Σ SAR < 1.6, Not required
			Left Side	0.40	0.18	0.58	Σ SAR < 1.6, Not required
			Right Side	0.01	0.14	0.15	Σ SAR < 1.6, Not required
			Top Side	0.40	0.01	0.41	Σ SAR < 1.6, Not required
			Bottom Side	0.31	0.40	0.71	Σ SAR < 1.6, Not required
7	LTE 17 + WLAN (NII)	Body	Front Face	0.29	0.12	0.41	Σ SAR < 1.6, Not required
			Rear Face	0.37	0.16	0.53	Σ SAR < 1.6, Not required
			Left Side	0.40	0.18	0.58	Σ SAR < 1.6, Not required
			Right Side	0.13	0.14	0.27	Σ SAR < 1.6, Not required
			Top Side	0.40	0.01	0.41	Σ SAR < 1.6, Not required
			Bottom Side	0.05	0.40	0.45	Σ SAR < 1.6, Not required

Test Engineer：Yihu Xiong

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1067	Nov. 04, 2014	2 Years
System Validation Dipole	SPEAG	D835V2	4d139	Nov. 04, 2014	2 Years
System Validation Dipole	SPEAG	D1750V2	1071	Nov. 06, 2014	2 Years
System Validation Dipole	SPEAG	D1900V2	5d159	Nov. 05, 2014	2 Years
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 21, 2014	2 Years
System Validation Dipole	SPEAG	D5GHzV2	1133	Nov. 06, 2014	2 Years
Dosimetric E-Field Probe	SPEAG	EX3DV4	3873	Aug. 26, 2014	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1341	Aug. 26, 2014	1 Year
Radio Communication Analyzer	ANRITSU	MT8820C	6201300717	Oct. 09, 2014	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50260600	Mar. 12, 2013	2 Years
ENA Series Network Analyzer	Agilent	E5071C	MY46214638	Sep. 20, 2014	1 Year
EXA Spectrum Analyzer	Agilent	E7405A	MY45118807	May 13, 2014	1 Year
MXG Analong Signal Generator	Agilent	N5183A	MY50140980	Nov. 10, 2014	1 Year
Power Meter	Agilent	ML2495A	1139001	Feb. 21, 2014	1 Year
Power Sensor	Agilent	MA2411B	1126068	Feb. 21, 2014	1 Year
Single Output DC Power Supply	Agilent	U8002A	MY52140018	Apr. 03, 2014	1 Year
Temp. & Humi. Recorder	HUATO	A2000TH	HE20107684	Jul. 21, 2014	1 Year
Electronic Thermometer	YONGFA	YF-160A	120100323	Oct. 21, 2014	1 Year

6. Measurement Uncertainty

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Standard Uncertainty (1g)	Vi
Measurement System						
Probe Calibration	6.0	Normal	1	1	± 6.0 %	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	± 1.9 %	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	± 3.9 %	∞
Boundary Effects	1.0	Rectangular	√3	1	± 0.6 %	∞
Linearity	4.7	Rectangular	√3	1	± 2.7 %	∞
System Detection Limits	1.0	Rectangular	√3	1	± 0.6 %	∞
Readout Electronics	0.6	Normal	1	1	± 0.6 %	∞
Response Time	0.0	Rectangular	√3	1	± 0.0 %	∞
Integration Time	1.7	Rectangular	√3	1	± 1.0 %	∞
RF Ambient Noise	3.0	Rectangular	√3	1	± 1.7 %	∞
RF Ambient Reflections	3.0	Rectangular	√3	1	± 1.7 %	∞
Probe Positioner	0.5	Rectangular	√3	1	± 0.3 %	∞
Probe Positioning	2.9	Rectangular	√3	1	± 1.7 %	∞
Max. SAR Eval.	2.3	Rectangular	√3	1	± 1.3 %	∞
Test Sample Related						
Device Positioning	3.9	Normal	1	1	± 3.9 %	31
Device Holder	2.7	Normal	1	1	± 2.7 %	19
Power Drift	5.0	Rectangular	√3	1	± 2.9 %	∞
Phantom and Setup						
Phantom Uncertainty	4.0	Rectangular	√3	1	± 2.3 %	∞
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	± 1.8 %	∞
Liquid Conductivity (Meas.)	5.0	Normal	1	0.64	± 3.2 %	29
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	± 1.7 %	∞
Liquid Permittivity (Meas.)	5.0	Normal	1	0.6	± 3.0 %	29
Combined Standard Uncertainty					± 11.7 %	
Expanded Uncertainty (K=2)					**± 23.4 %**	

Uncertainty budget for frequency range 300 MHz to 3 GHz

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Standard Uncertainty (1g)	Vi
Measurement System						
Probe Calibration	6.55	Normal	1	1	± 6.55 %	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	± 1.9 %	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	± 3.9 %	∞
Boundary Effects	2.0	Rectangular	√3	1	± 1.2 %	∞
Linearity	4.7	Rectangular	√3	1	± 2.7 %	∞
System Detection Limits	1.0	Rectangular	√3	1	± 0.6 %	∞
Readout Electronics	0.3	Normal	1	1	± 0.3 %	∞
Response Time	0.8	Rectangular	√3	1	± 0.5 %	∞
Integration Time	2.6	Rectangular	√3	1	± 1.5 %	∞
RF Ambient Noise	3.0	Rectangular	√3	1	± 1.7 %	∞
RF Ambient Reflections	3.0	Rectangular	√3	1	± 1.7 %	∞
Probe Positioner	0.8	Rectangular	√3	1	± 0.5 %	∞
Probe Positioning	9.9	Rectangular	√3	1	± 5.7 %	∞
Max. SAR Eval.	4.0	Rectangular	√3	1	± 2.3 %	∞
Test Sample Related						
Device Positioning	3.9	Normal	1	1	± 3.9 %	31
Device Holder	2.7	Normal	1	1	± 2.7 %	19
Power Drift	5.0	Rectangular	√3	1	± 2.9 %	∞
Phantom and Setup						
Phantom Uncertainty	4.0	Rectangular	√3	1	± 2.3 %	∞
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	± 1.8 %	∞
Liquid Conductivity (Meas.)	5.0	Normal	1	0.64	± 3.2 %	30
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	± 1.7 %	∞
Liquid Permittivity (Meas.)	5.0	Normal	1	0.6	± 3.0 %	30
Combined Standard Uncertainty					± 13.4 %	
Expanded Uncertainty (K=2)					**± 26.8 %**	

Uncertainty budget for frequency range 3 GHz to 6 GHz

7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., China 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:

China Dongguan Lab:
No. 34, Guantai Rd., Houjie Town, Dongguan, Guangdong 523942, China
Tel: 86-769-8593-5656
Fax: 86-769-8599-1080

Email: service.dg@cn.bureauveritas.com
Web Site: www.adt.com.tw

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: 2015/01/07

System Check_B750_150107

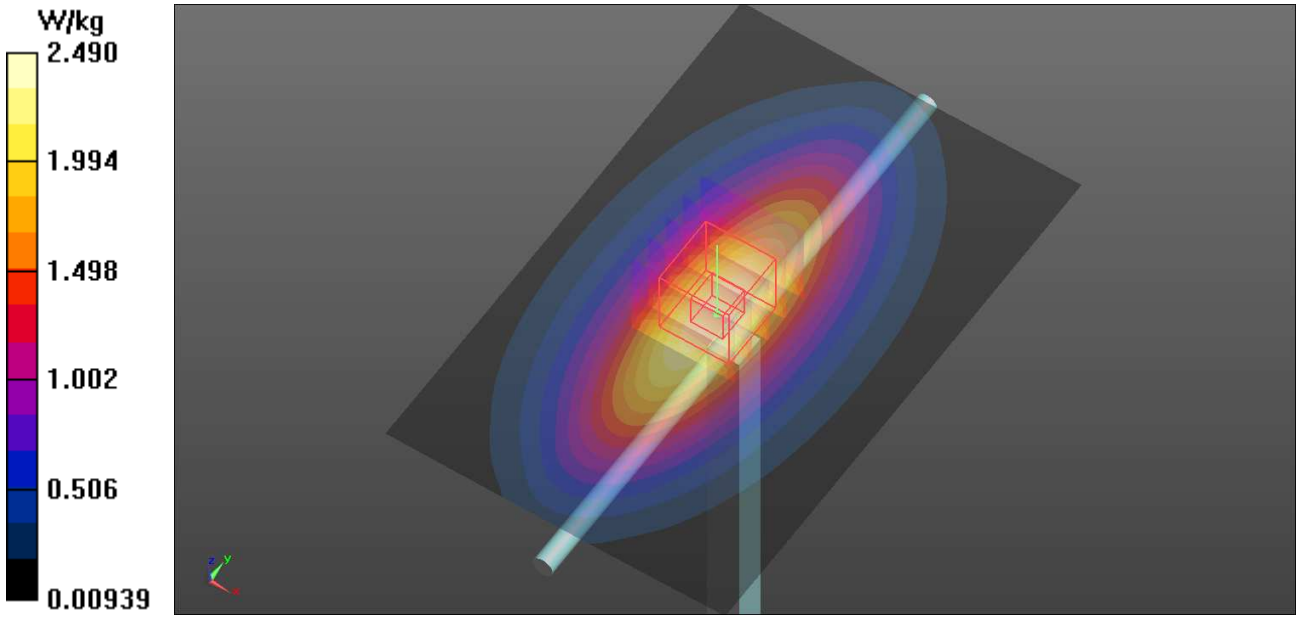
DUT: Dipole:750 MHz; D750V3;SN:1067

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: B750-A_0107 Medium parameters used: f = 750 MHz; σ = 0.969 S/m; ε_r = 55.447; ρ = 1000 kg/m^3
Ambient Temperature：21.6 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.54, 9.54, 9.54); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.49 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 51.43 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.64 W/kg
SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.68 W/kg
Maximum value of SAR (measured) = 2.54 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2015/01/07

System Check_B835_150107

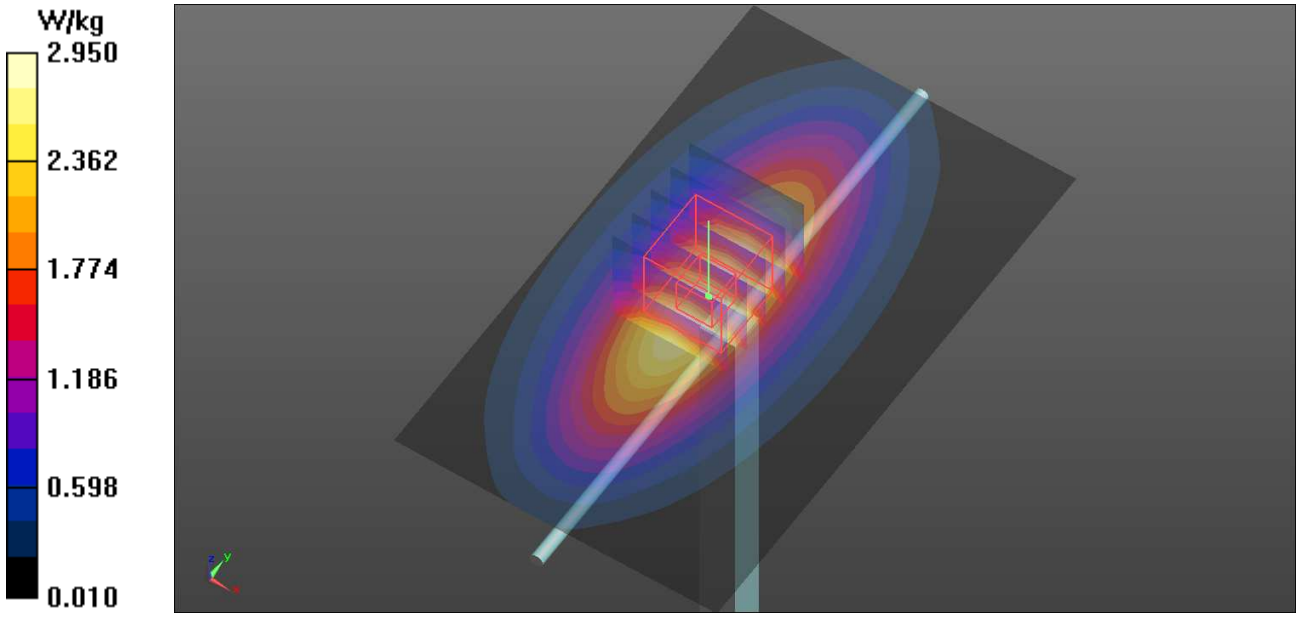
DUT: Dipole:835 MHz; Type:D835V2; SN:4d139

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: B835-A_0107 Medium parameters used: f = 835 MHz; σ = 0.992 S/m; ε_r = 55.56; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.5, 9.5, 9.5); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.95 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.96 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 3.44 W/kg
SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.62 W/kg
Maximum value of SAR (measured) = 3.00 W/kg



System Check_B1750_150102

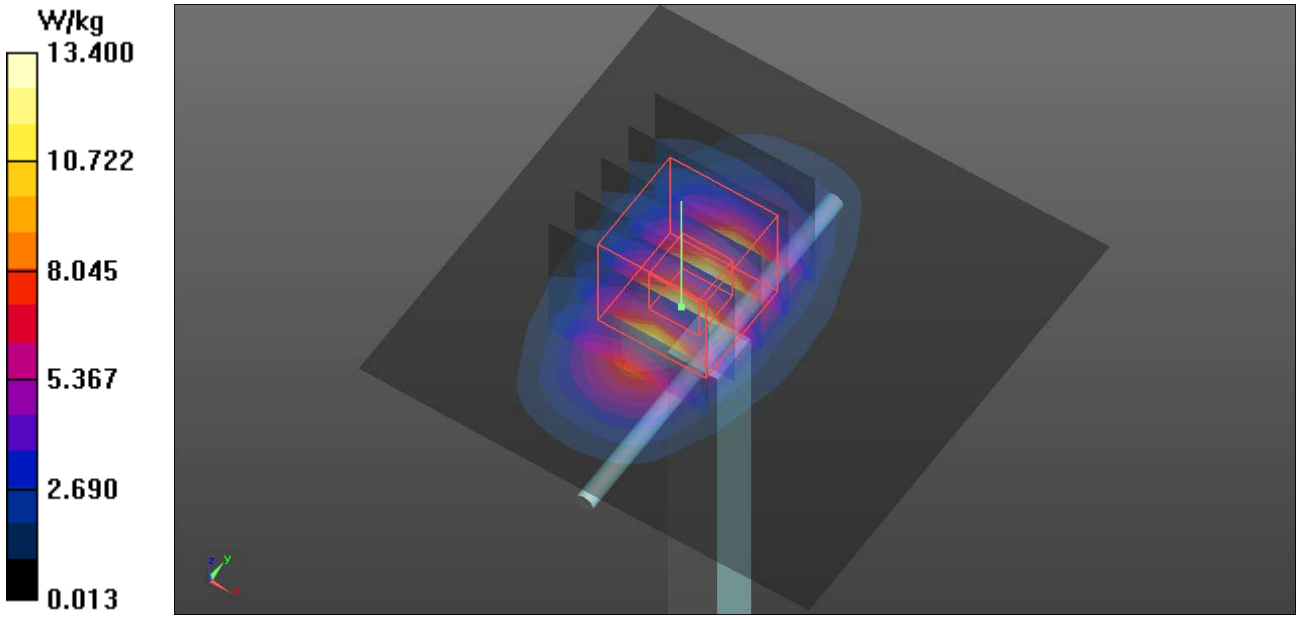
DUT: Dipole 1750 MHz ;Type:D1750V2; SN:1071

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: B1750-A_0102 Medium parameters used: f = 1750 MHz; σ = 1.462 S/m; ε_r = 54.513; ρ = 1000 kg/m^3
Ambient Temperature：22.1 ℃; Liquid Temperature：21.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.72, 7.72, 7.72); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 92.35 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 16.9 W/kg
SAR(1 g) = 9.7 W/kg; SAR(10 g) = 5.22 W/kg
Maximum value of SAR (measured) = 13.5 W/kg



System Check_B1900_141230

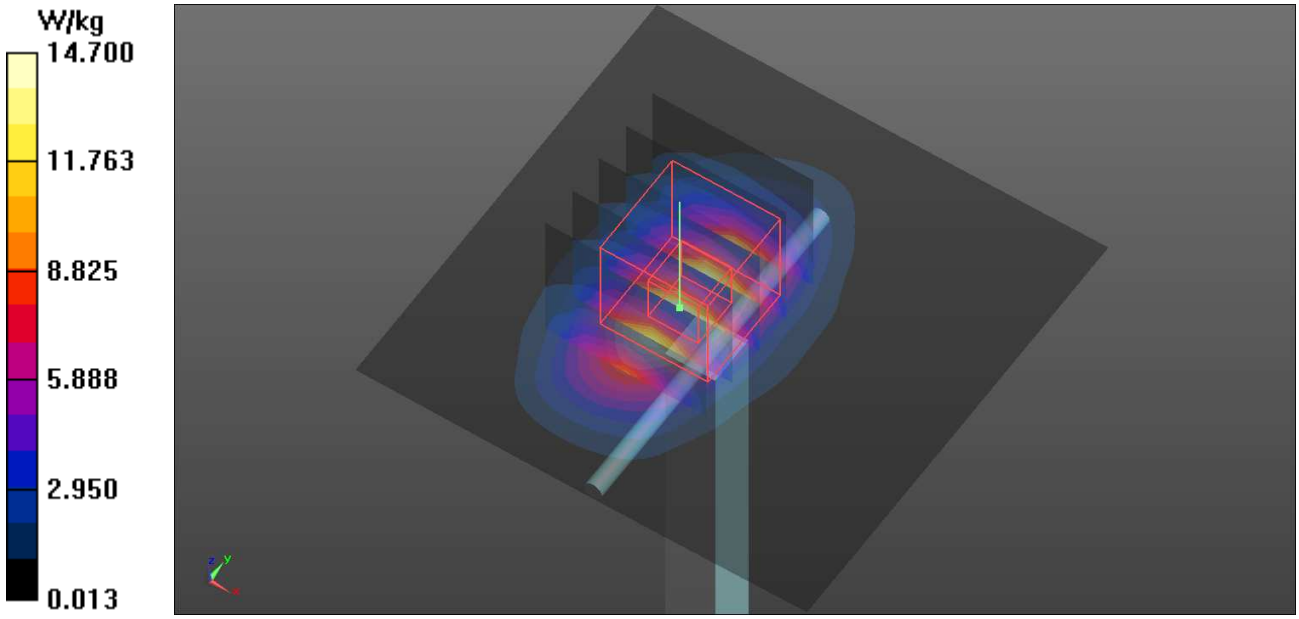
DUT: Dipole:1900MHz; Type:D1900V2; SN:5d159

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: B1900-A_1230 Medium parameters used: f = 1900 MHz; σ = 1.552 S/m; ε_r = 54.013; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.44, 7.44, 7.44); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.7 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 97.30 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.39 W/kg
Maximum value of SAR (measured) = 14.8 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2015/01/08

System Check_B2600_150108

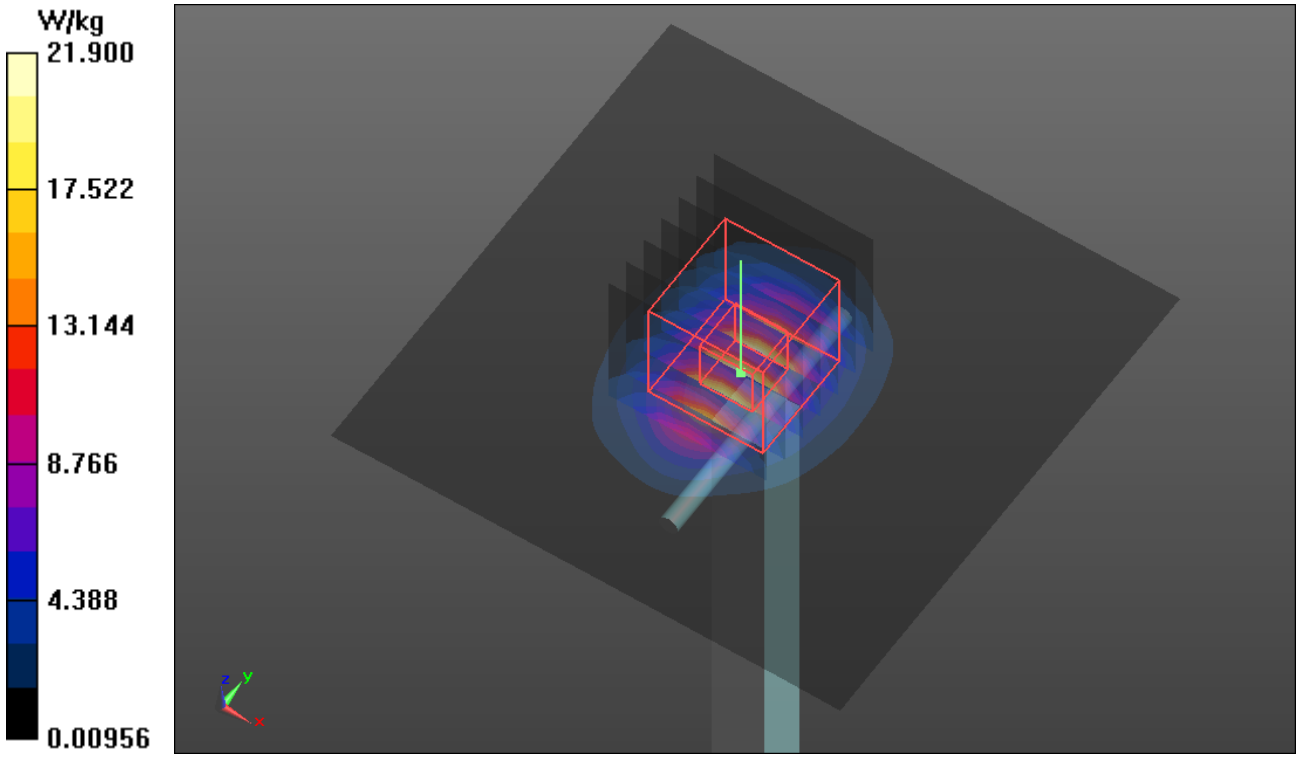
DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: B2600-A_0108 Medium parameters used: f = 2600 MHz; σ = 2.2 S/m; ε_r = 52.401; ρ = 1000 kg/m^3
Ambient Temperature：22 ℃ ； Liquid Temperature：21.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.94, 6.94, 6.94); Calibrated: 2014/8/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/8/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 21.9 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.45 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 29.9 W/kg
SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.11 W/kg
Maximum value of SAR (measured) = 21.5 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2015/01/09

System Check_B5800_150109

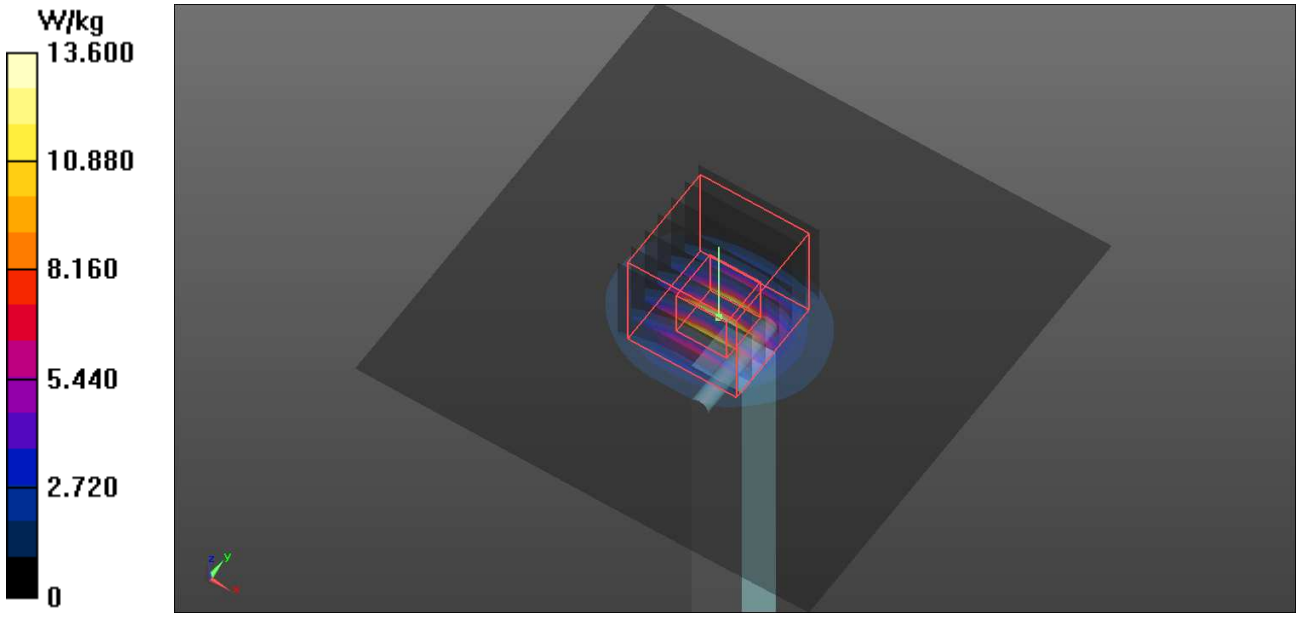
DUT: Dipole D5GHzV2; Type:D5GHzV2; SN:1133

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium: B5G-A_0109 Medium parameters used: f = 5800 MHz; σ = 6.221 S/m; ε_r = 47.4; ρ = 1000 kg/m^3
Ambient Temperature：22.3 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(4, 4, 4); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 13.6 W/kg

Pin=100mW/Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 49.66 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 30.2 W/kg
SAR(1 g) = 6.83 W/kg; SAR(10 g) = 1.9 W/kg
Maximum value of SAR (measured) = 14.8 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.

P01 WCDMA II_RMC12.2K_Rear Face_0cm_Ch9262_w/ Pw Reduction

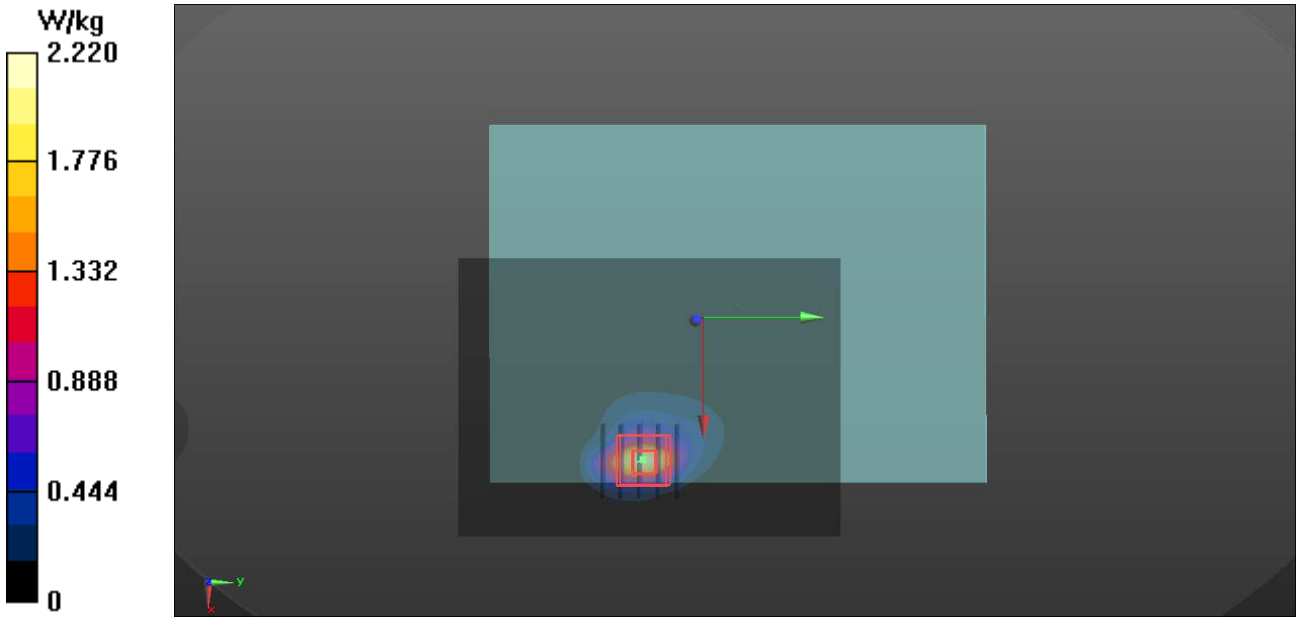
DUT: 141127N057

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900-A_1230 Medium parameters used: f = 1852.4 MHz; σ = 1.497 S/m; ε_r = 54.173; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃； Liquid Temperature：20.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.44, 7.44, 7.44); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.22 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.079 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.81 W/kg
SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.624 W/kg
Maximum value of SAR (measured) = 2.17 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2015/01/07

P02 WCDMA V_RMC12.2K_Front Face_1.1cm_Ch4233_w/o Pw Reduction

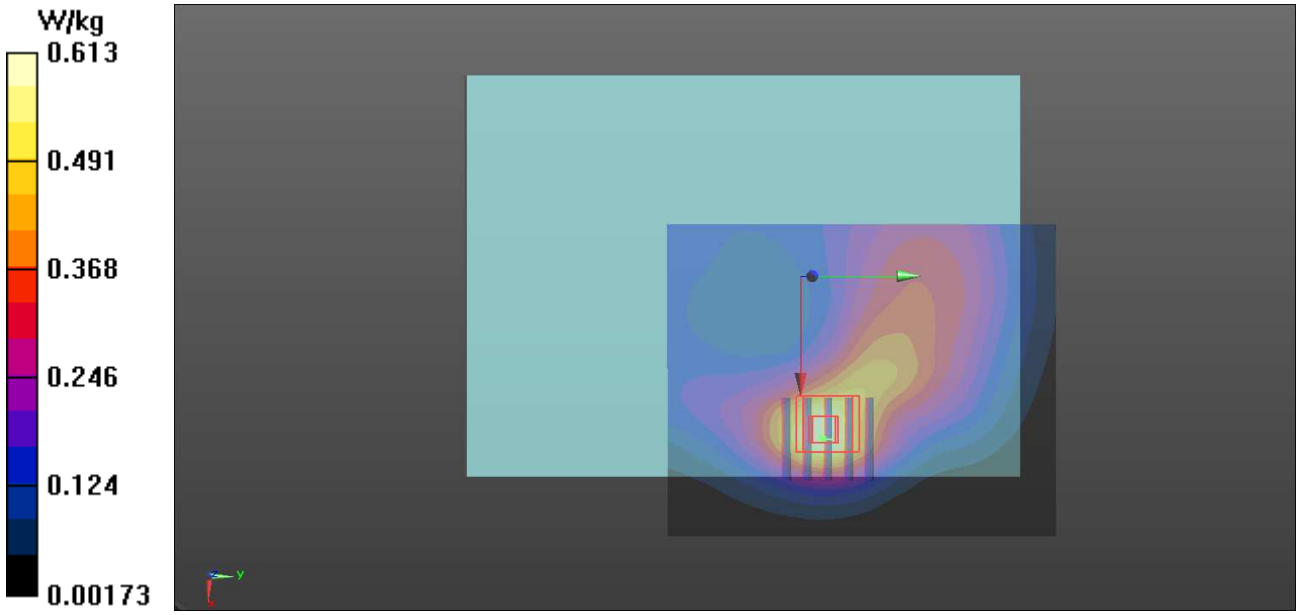
DUT: 141127N057

Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: B835-A_0107 Medium parameters used: f = 847 MHz; σ = 1.004 S/m; ε_r = 55.434; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.5, 9.5, 9.5); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.613 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.674 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.732 W/kg
SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 0.611 W/kg



P03 LTE 2_QPSK20M_Rear Face_0cm_Ch18900_w/ Pw Reduction_1RB_OS0

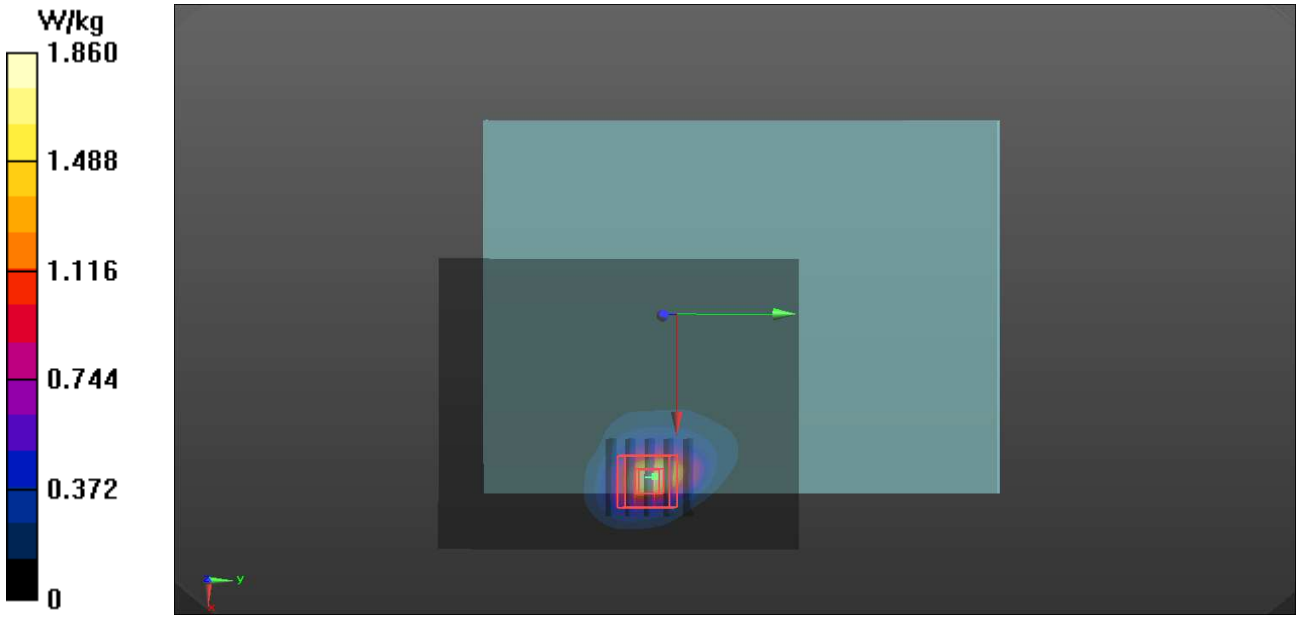
DUT: 141127N057

Communication System: LTE; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: B1900-A_1230 Medium parameters used: f = 1880 MHz; σ = 1.529 S/m; ε_r = 54.066; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃； Liquid Temperature：20.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.44, 7.44, 7.44); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.86 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.933 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.55 W/kg
SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.585 W/kg
Maximum value of SAR (measured) = 1.88 W/kg



P04 LTE 4_QPSK20M_Rear Face_0cm_Ch20300_w/ Pw Reduction_50RB_OS0

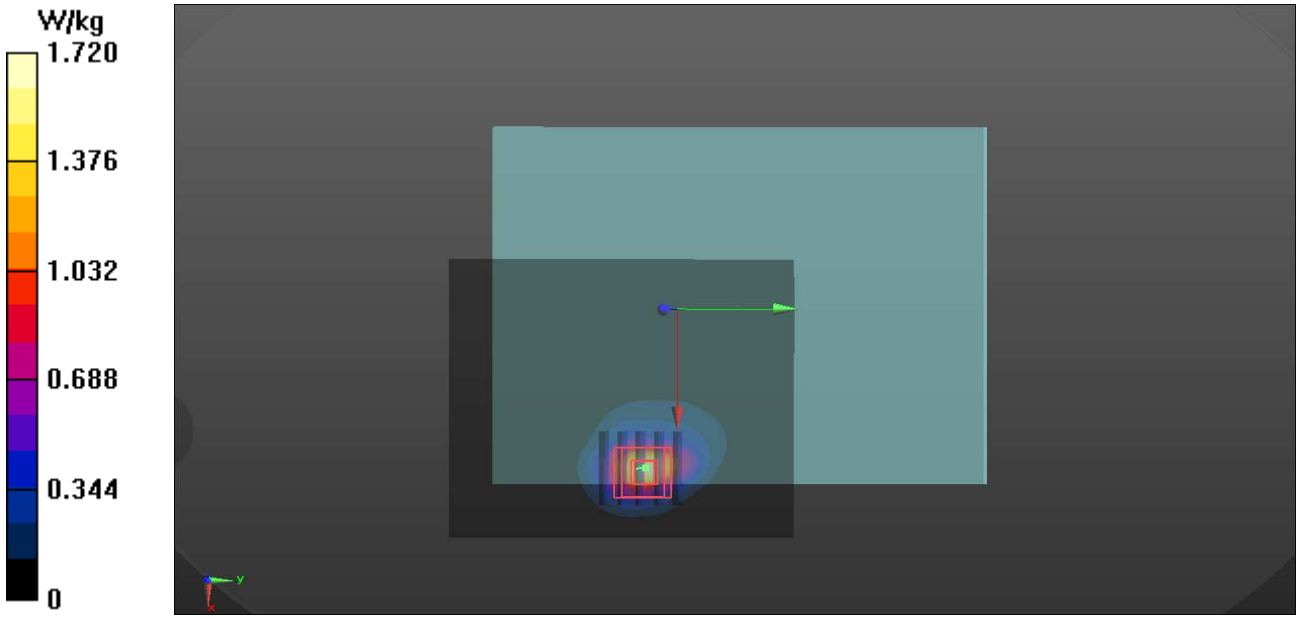
DUT: 141127N057

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: B1750-A_0102 Medium parameters used: f = 1745 MHz; σ = 1.455 S/m; ε_r = 54.523; ρ = 1000 kg/m^3
Ambient Temperature：22.1 ℃; Liquid Temperature：21.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.72, 7.72, 7.72); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.72 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.096 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.29 W/kg
SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.533 W/kg
Maximum value of SAR (measured) = 1.71 W/kg



P05 LTE 5_QPSK10M_Front Face_1.1cm_Ch20600_w/o Pw Reduction_1RB_OS0

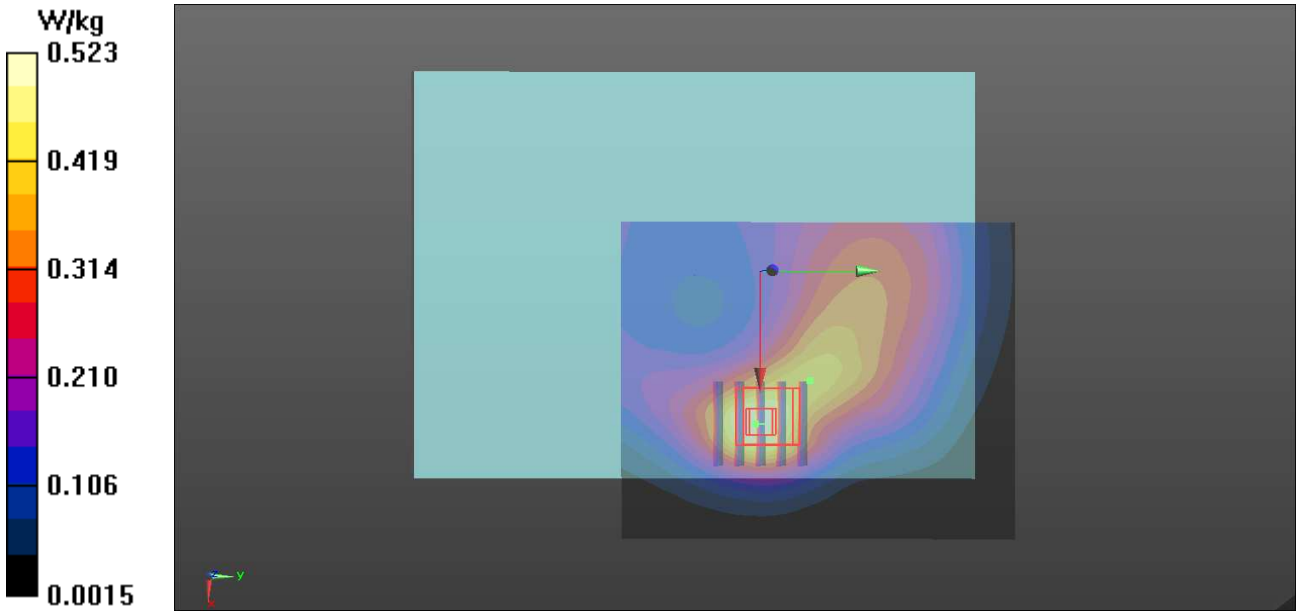
DUT: 141127N057

Communication System: LTE; Frequency: 844 MHz;Duty Cycle: 1:1
Medium: B835-A_0107 Medium parameters used: f = 844 MHz; σ = 1.001 S/m; ε_r = 55.463; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.5, 9.5, 9.5); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.523 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.921 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.615 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.273 W/kg
Maximum value of SAR (measured) = 0.527 W/kg



P06 LTE 7_QPSK20M_Rear Face_0cm_Ch21100_w/ Pw Reduction_50RB_OS0

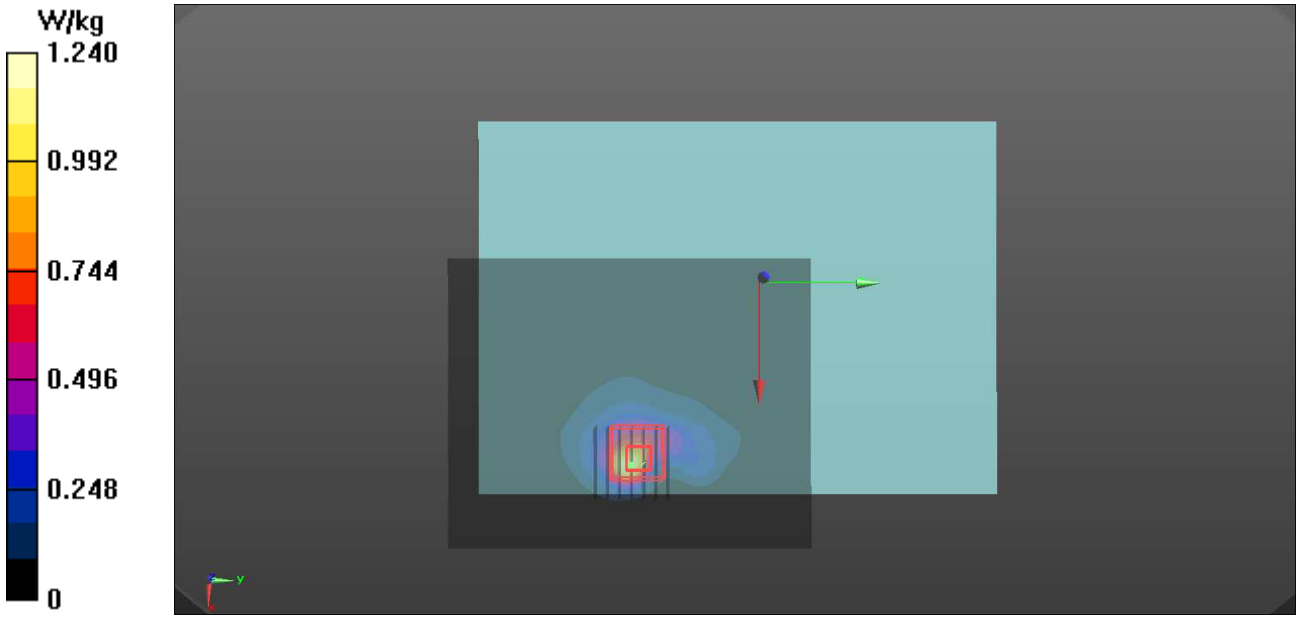
DUT: 141127N057

Communication System: LTE; Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: B2600-A_0108 Medium parameters used: f = 2535 MHz; σ = 2.114 S/m; ε_r = 52.633; ρ = 1000 kg/m^3
Ambient Temperature：22 ℃; Liquid Temperature：21.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.94, 6.94, 6.94); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.9670 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.16 W/kg
SAR(1 g) = 0.682 W/kg; SAR(10 g) = 0.269 W/kg
Maximum value of SAR (measured) = 1.17 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2015/01/07

P07 LTE 17_QPSK10M_Rear Face_1.2cm_Ch23800_w/o Pw Reduction_1RB_OS0

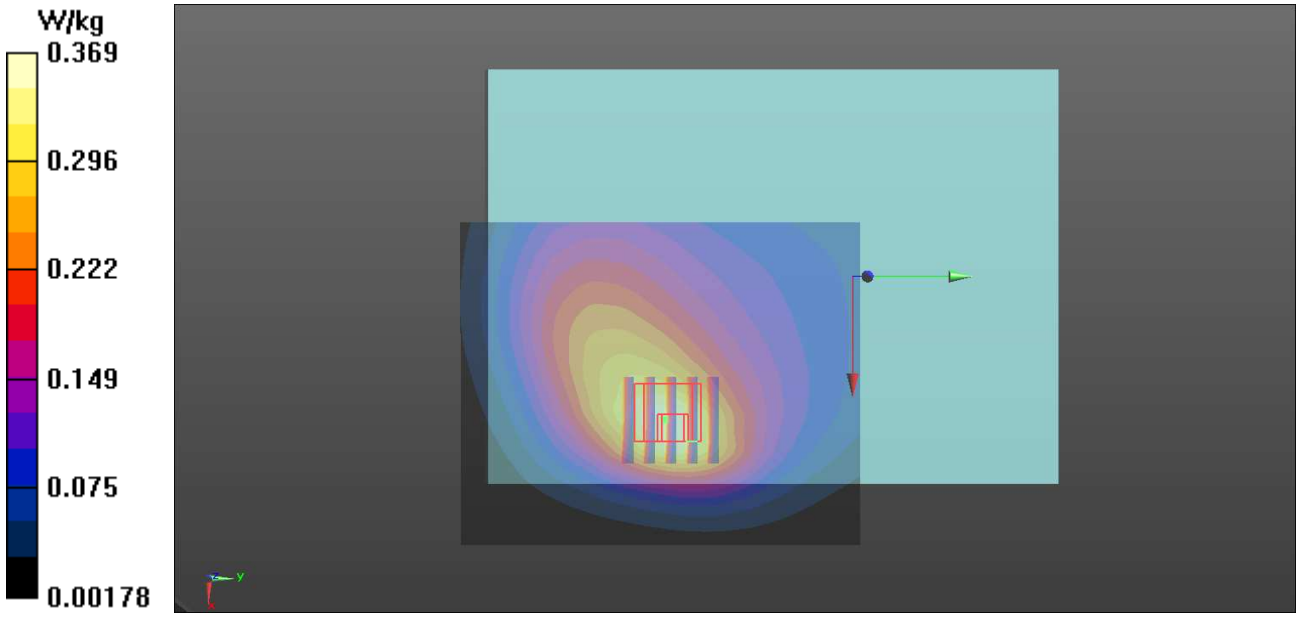
DUT: 141127N057

Communication System: LTE; Frequency: 711 MHz;Duty Cycle: 1:1
Medium: B750-A_0107 Medium parameters used: f = 711 MHz; σ = 0.936 S/m; ε_r = 55.765; ρ = 1000 kg/m^3
Ambient Temperature：21.6 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.54, 9.54, 9.54); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.369 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.802 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.417 W/kg
SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.232 W/kg
Maximum value of SAR (measured) = 0.362 W/kg



P08 802.11a_Left Side_0cm_Ch149_Antenna 0

DUT: 141127N057

Communication System: 802.11a; Frequency: 5745 MHz;Duty Cycle: 1:1.02
Medium: B5G-A_0109 Medium parameters used: f = 5745 MHz; σ = 6.162 S/m; ε_r = 47.503; ρ = 1000 kg/m^3
Ambient Temperature：22.3 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(4, 4, 4); Calibrated: 2014/08/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2014/08/26
- Phantom: ELI 5.0; Type: QD OVA 001 BB; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.320 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 1.503 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.766 W/kg
SAR(1 g) = 0.166 W/kg; SAR(10 g) = 0.038 W/kg
Maximum value of SAR (measured) = 0.392 W/kg