FCC SAR Test Report

Report No.	:	**SA160705C22**
Applicant	:	**Kyocera Corporation c/o Kyocera International, Inc.**
Address	:	**8611 Balboa Avenue, San Diego, CA 92123**
Product	:	**PDA Phone**
FCC ID	:	**V65E6830**
Brand	:	**KYOCERA**
Model No.	:	**E6830**
Standards	:	**FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE Std 1528:2013** **KDB 865664 D01 v01r04 / KDB 865664 D02 v01r02** **KDB 248227 D01 v02r02 / KDB 447498 D01 v06 / KDB 648474 D04 v01r03** **KDB 941225 D01 v03r01 / KDB 941225 D05 v02r05** **KDB 941225 D05A v01r02 / KDB 941225 D06 v02r01**
Sample Received Date	:	**Jul. 05, 2016**
Date of Testing	:	**Jul. 21, 2016 ~ Aug. 04, 2016**
Lab Address	:	**No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.**
Test Location	:	**No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)**

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

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Release Control Record

Report No.	Reason for Change	Date Issued
SA160705C22	Initial release	Aug. 08, 2016

1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Head SAR_{1g} (W/kg)	Highest Reported Body-worn SAR_{1g} (1.5 cm Gap) (W/kg)	Highest Reported Hotspot SAR_{1g} (1.0 cm Gap) (W/kg)
PCE	GSM850	0.44	0.44	0.44
	GSM1900	0.33	0.37	0.65
	WCDMA II	0.63	0.66	1.47
	WCDMA V	0.50	0.46	0.60
	CDMA BC0	0.59	0.54	0.71
	CDMA BC1	0.70	0.77	1.43
	CDMA BC10	0.60	0.57	0.71
	LTE 2	0.90	0.73	1.37
	LTE 4	0.99	0.90	1.26
	LTE 5	0.51	0.41	0.51
	LTE 12	0.27	0.36	0.47
	LTE 25	0.79	0.64	1.17
	LTE 26	0.48	0.42	0.53
	LTE 41	0.85	0.54	1.18
DTS	2.4G WLAN	0.18	0.29	0.58
NII	5.3G WLAN	0.22	0.42	N/A
	5.6G WLAN	0.35	0.99	N/A
	5.8G WLAN	0.33	0.77	N/A
DSS	Bluetooth	N/A	0.00	N/A
DXX	NFC	N/A	N/A	N/A
Highest Simultaneous Transmission SAR		Head (W/kg)	Body-worn (W/kg)	Hotspot (W/kg)
PCE + DTS		1.08	1.03	1.57
PCE + NII		1.24	1.55	N/A
PCE + DTS + DSS		N/A	1.03	N/A
PCE + NII + DSS		N/A	1.55	N/A

Note:

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

2. Description of Equipment Under Test

EUT Type	PDA Phone
FCC ID	V65E6830
Brand Name	KYOCERA
Model Name	E6830
Tx Frequency Bands (Unit: MHz)	GSM850 : 824.2 ~ 848.8 GSM1900 : 1850.2 ~ 1909.8 WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band V : 826.4 ~ 846.6 CDMA BC0 : 824.7 ~ 848.31 CDMA BC1 : 1851.25 ~ 1908.75 CDMA BC10 : 817.9 ~ 823.1 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 12 : 699.7 ~ 715.3 (1.4M), 700.5 ~ 714.5 (3M), 701.5 ~ 713.5 (5M), 704 ~ 711 (10M) LTE Band 25 : 1850.7 ~ 1914.3 (1.4M), 1851.5 ~ 1913.5 (3M), 1852.5 ~ 1912.5 (5M), 1855 ~ 1910 (10M), 1857.5 ~ 1907.5 (15M), 1860 ~ 1905 (20M) LTE Band 26 : 814.7 ~ 848.3 (1.4M), 815.5 ~ 847.5 (3M), 816.5 ~ 846.5 (5M), 819 ~ 844 (10M), 821.5 ~ 841.5 (15M) LTE Band 41 : 2498.5 ~ 2687.5 (5M), 2501 ~ 2685 (10M), 2503.5 ~ 2682.5 (15M), 2506 ~ 2680 (20M) WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 Bluetooth : 2402 ~ 2480 NFC : 13.56
Uplink Modulations	GSM & GPRS : GMSK EDGE : 8PSK WCDMA : QPSK CDMA : QPSK LTE : QPSK, 16QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, π/4-DQPSK, 8-DPSK NFC : ASK
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.6.1 of this report.
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**	KYOCERA
	Model Name	SCP-67LBPS
	Power Rating	3.8Vdc, 3240mAh
	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 DASY4/5 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.

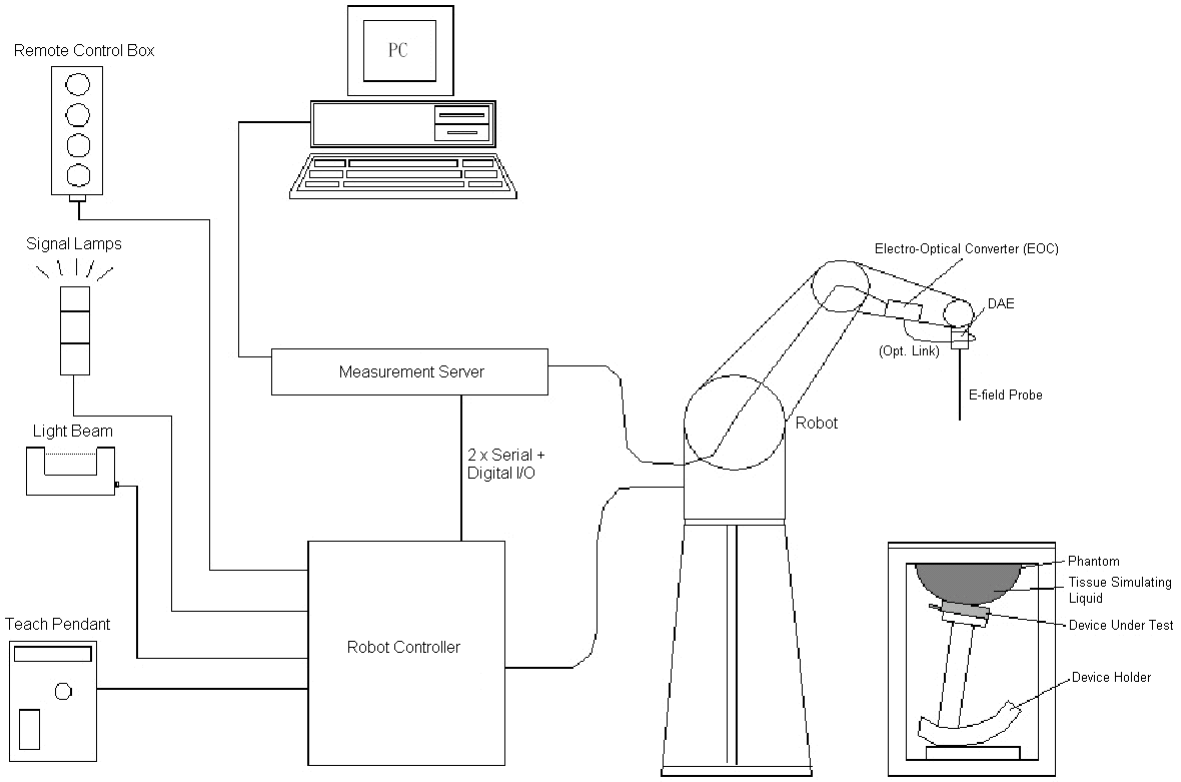


Fig-3.1 SPEAG DASY52 System Setup

3.2.1 Robot

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

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

Fig-3.2 SPEAG DASY52 System

3.2.2 Probes

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

Model	EX3DV4	
Construction	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

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

3.2.3 Data Acquisition Electronics (DAE)

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

3.2.4 Phantoms

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

Model	ELI	
Construction	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	

3.2.5 Device Holder

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

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

3.2.6 System Validation Dipoles

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

3.2.7 Tissue Simulating Liquids

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

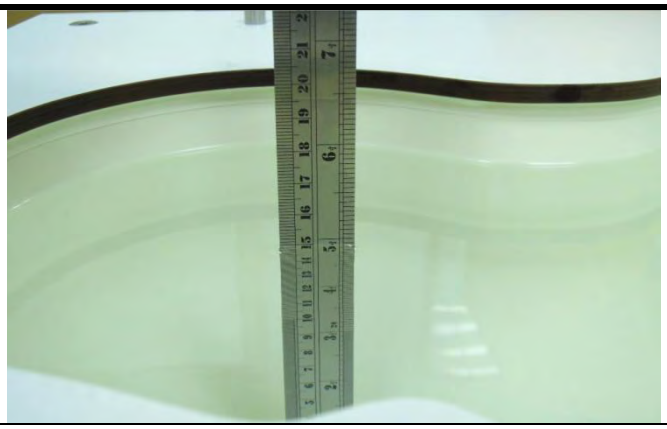
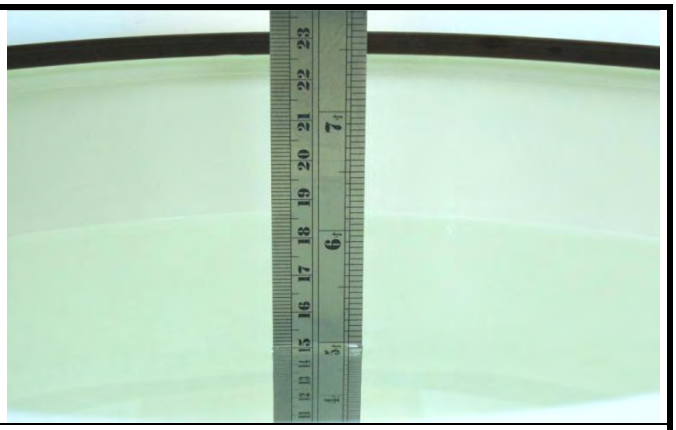
	

Photo of Liquid Height for Head Position	**Photo of Liquid Height for Body Position**

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

Table-3.1 Targets of Tissue Simulating Liquid

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

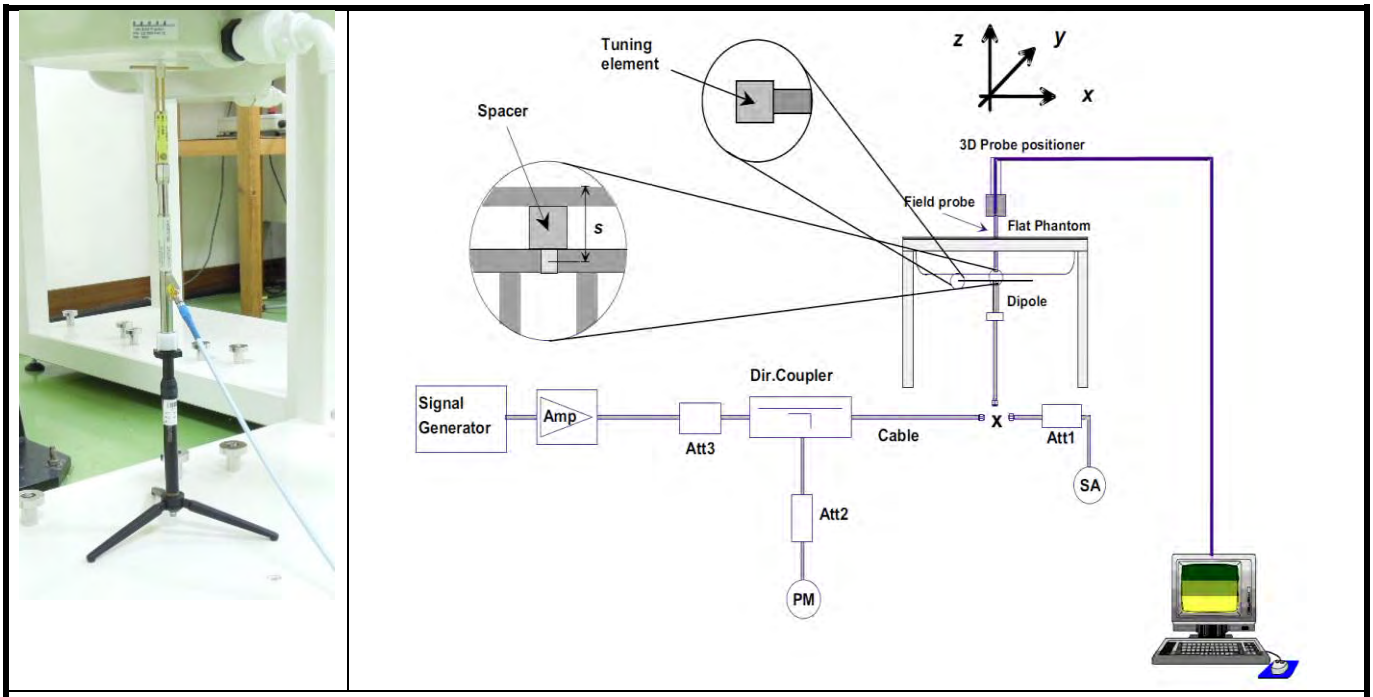


Fig-3.3 System Verification Setup

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

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

3.4 SAR Measurement Procedure

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

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

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

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

3.4.1 Area & Zoom Scan Procedure

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

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

Note:

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

3.4.2 Volume Scan Procedure

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

3.4.3 Power Drift Monitoring

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

3.4.4 Spatial Peak SAR Evaluation

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

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

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

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

3.4.5 SAR Averaged Methods

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

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

4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

<Connections between EUT and System Simulator>

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

<Considerations Related to GSM / GPRS / EDGE for Setup and Testing>

The maximum multi-slot capability supported by this device is as below.

1. This EUT is class B device
2. This EUT supports GPRS multi-slot class 12 (max. uplink: 4, max. downlink: 4, total timeslots: 5)
3. This EUT supports EDGE multi-slot class 12 (max. uplink: 4, max. downlink: 4, total timeslots: 5)

For GSM850 frequency band, the power control level is set to 5 for GSM mode and GPRS (GMSK: CS1), and set to 8 for EDGE (GMSK: MCS1, 8PSK: MCS9). For GSM1900 frequency band, the power control level is set to 0 for GSM mode and GPRS (GMSK: CS1), and set to 2 for EDGE (GMSK: MCS1, 8PSK: MCS9).

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

<Considerations Related to WCDMA for Setup and Testing>

WCDMA Handsets Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode.

WCDMA Handsets Body-worn SAR

SAR for body-worn configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple $DPDCH_n$ configurations supported by the handset with 12.2 kbps RMC as the primary mode.

Handsets with Release 5 HSDPA

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

Handsets with Release 6 HSUPA

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

Release 5 HSDPA Data Devices

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

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

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 8 ⇔ A_{hs} = β_{hs} / β_c = 30 / 15 ⇔ β_{hs} = 30 / 15 * β_c.
Note 2: CM = 1 for β_c / β_d = 12 / 15, β_{hs} / β_c = 24 / 15.
Note 3: For subtest 2 the β_c / β_d ratio of 12 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 11 / 15 and β_d = 15 / 15.

Release 6 HSUPA Data Devices

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

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

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 8 ⇔ A_{hs} = β_{hs} / β_c = 30 / 15 ⇔ β_{hs} = 30 / 15 * β_c.
Note 2: CM = 1 for β_c / β_d = 12 / 15, β_{hs} / β_c = 24 / 15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
Note 3: For subtest 1 the β_c / β_d ratio of 11 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 10 / 15 and β_d = 15 / 15.
Note 4: For subtest 5 the β_c / β_d ratio of 15 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 14 / 15 and β_d = 15 / 15.
Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.
Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

<Considerations Related to CDMA for Setup and Testing>

CDMA 1xRTT Handsets Head SAR

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode. Otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

CDMA 1xRTT Handsets Body-worn SAR

Body-worn SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH + SCH_n), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCH_n), with FCH at full rate and SCH_0 enabled at 9600 bps, using the highest reported SAR configuration for FCH only. The 3G SAR test reduction procedure is applied to body-worn SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn exposure in RC3.

Handsets with built-in EV-DO

The 3G SAR test reduction procedure is applied to EV-DO Rev. 0 with 1xRTT RC3 as the primary mode to determine body-worn test requirements. Otherwise, body-worn SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn exposure in RC3. The 3G SAR test reduction procedure is applied separately to Rev. A and Rev. B, with Rev. 0 as the primary mode to determine body-worn SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1xRTT RC3 as the primary mode. Otherwise, SAR is required for Rev. A or Rev. B, with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 and 3 Physical Layer configurations, using the highest reported SAR configuration for body-worn exposure in Rev. 0 or RC3, as appropriate. A Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with ACK Channel transmitting in all slots is configured in the downlink for Rev. 0, Rev. A and Rev. B.

EV-DO Data Devices

SAR is measured using the F/R TAP configurations required for Rev. 0, Rev. A and Rev. B. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations. A Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots are used for Subtype 2 and 3. FTAP, FETAP and FMCTAP are all configured with a Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with ACK Channel transmitting in all slots. AT power control is in “All Bits Up” conditions for the TAP / ETAP / MCTAP. Body-worn and other body SAR are measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode. Otherwise, SAR is measured for Rev. A using the highest reported SAR configuration for body-worn exposure in Rev. 0. SAR is required for Rev. B, Subtype 3; it is measured by applying both the “test 2” and “test 3” configurations used for power measurement.

<Considerations Related to LTE for Setup and Testing>

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

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

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

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

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

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

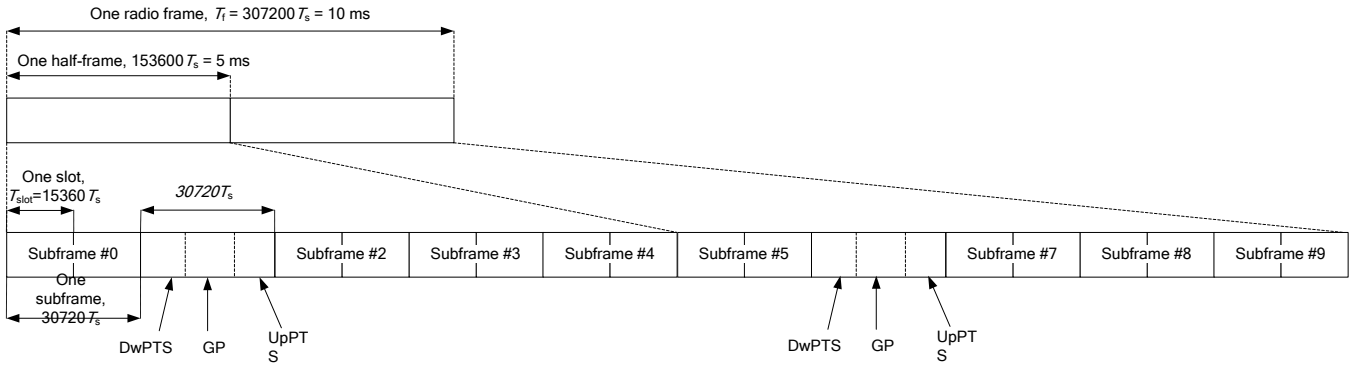
During LTE SAR testing, the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB was set in base station simulator. When the EUT has registered and communicated to base station simulator, the simulator set to make EUT transmitting the maximum radiated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

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

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

TDD-LTE Setup Configurations

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



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

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

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

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-Point Periodicity	Subframe Number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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

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

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

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

LTE Downlink Carrier Aggregation (CA) Setup Configurations

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

EUT Supported Combinations of Downlink Carrier Aggregation							
Intra-Band Contiguous CA Operating Bands							
CA_41							
Intra-Band Non-Contiguous CA Operating Bands (with Two Sub-Blocks)							
CA_25-25							

<Considerations Related to WLAN for Setup and Testing>

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

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

Initial Test Configuration

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

Subsequent Test Configuration

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

SAR Test Configuration and Channel Selection

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

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

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

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

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

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

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

<Considerations Related to Bluetooth for Setup and Testing>

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

4.2 EUT Testing Position

According to KDB 648474 D04, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

4.2.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2003 using the SAM phantom illustrated as below.

1. Define two imaginary lines on the handset

(a) The vertical centerline passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.

(b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

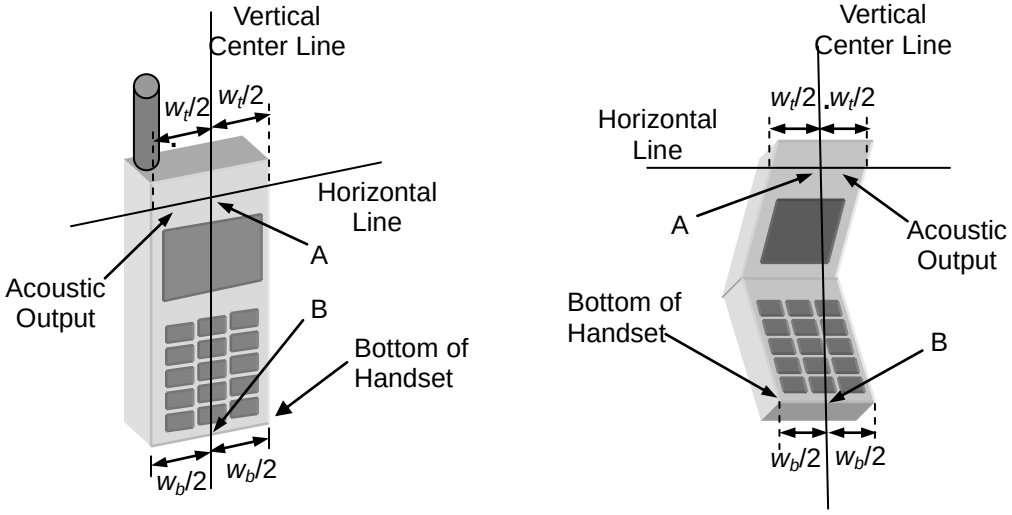


Fig-4.1 Illustration for Handset Vertical and Horizontal Reference Lines

2. Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig-4.2).

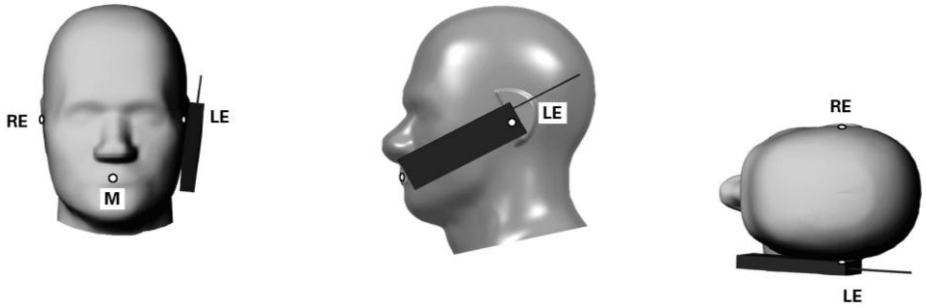


Fig-4.2 Illustration for Cheek Position

3. Tilted Position

(a) To position the device in the “cheek” position described above.

(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig-4.3).

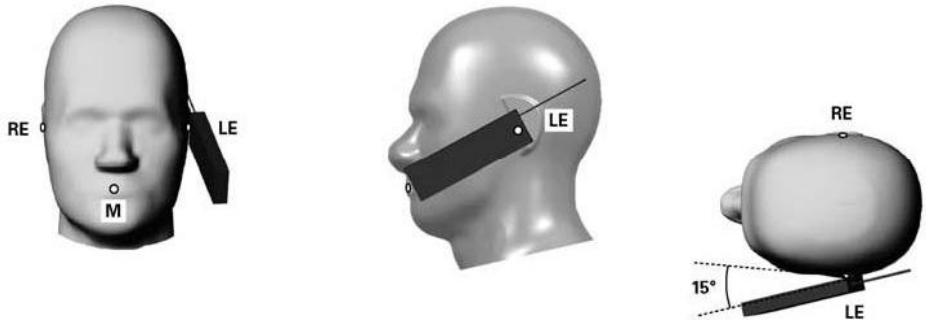


Fig-4.3 Illustration for Tilted Position

4.2.2 Body-worn Accessory Exposure Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 D01 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required.

A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance <= 5 mm to support compliance.

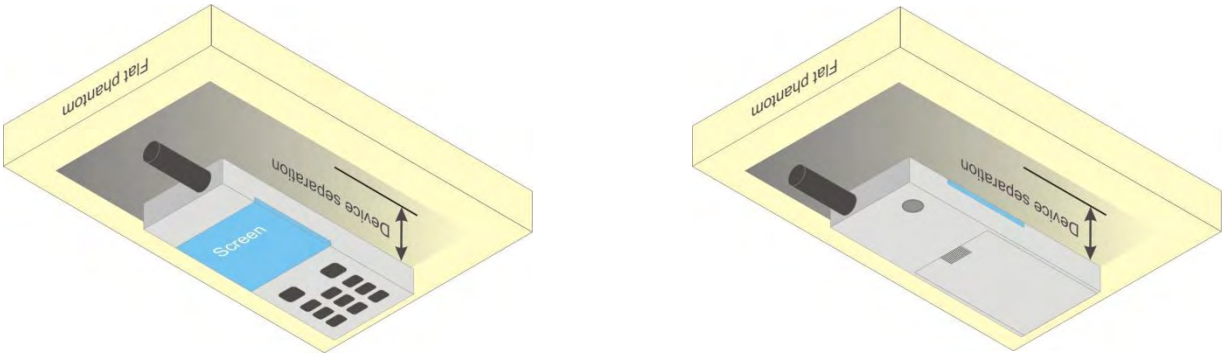
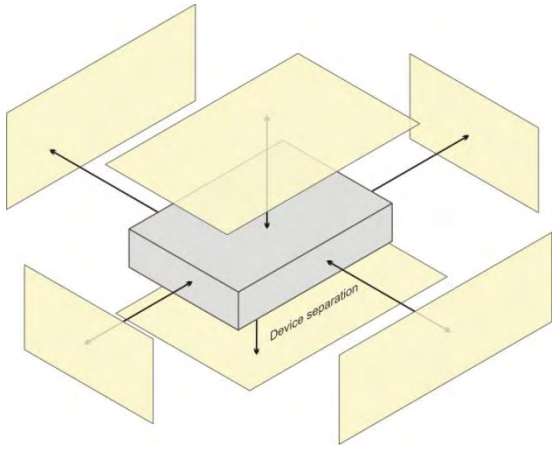


Fig-4.4 Illustration for Body Worn Position

4.2.3 Hotspot Mode Exposure Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225 D06. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



Based on the antenna location shown on appendix D of this report, the SAR testing required for hotspot mode is listed as below.

Antenna	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
WWAN Ant- High Band	V	V	V			V
WWAN Ant- Low Band	V	V		V		V
WLAN / BT	V	V	V			

4.2.4 Simultaneous Transmission Possibilities

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

Simultaneous TX Combination	Capable Transmit Configurations	Head (Voice / VoIP)	Body-worn (Voice / VoIP)	Hotspot (Data)
1	GSM850 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
2	GSM1900 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
3	WCDMA II (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
4	WCDMA V (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
5	CDMA BC0 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
6	CDMA BC1 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
7	CDMA BC10 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
8	LTE 2 (Data) + WLAN (Data)	Yes	Yes	Yes
9	LTE 4 (Data) + WLAN (Data)	Yes	Yes	Yes
10	LTE 5 (Data) + WLAN (Data)	Yes	Yes	Yes
11	LTE 12 (Data) + WLAN (Data)	Yes	Yes	Yes
12	LTE 25 (Data) + WLAN (Data)	Yes	Yes	Yes
13	LTE 26 (Data) + WLAN (Data)	Yes	Yes	Yes
14	LTE 41 (Data) + WLAN (Data)	Yes	Yes	Yes
15	GSM850 (Voice / Data) + WLAN (Data) + BT (Data)	No	Yes	No
16	GSM1900 (Voice / Data) + WLAN (Data) + BT (Data)	No	Yes	No
17	WCDMA II (Voice / Data) + WLAN (Data) + BT (Data)	No	Yes	No
18	WCDMA V (Voice / Data) + WLAN (Data) + BT (Data)	No	Yes	No
19	CDMA BC0 (Voice / Data) + WLAN (Data) + BT (Data)	No	Yes	No
20	CDMA BC1 (Voice / Data) + WLAN (Data) + BT (Data)	No	Yes	No
21	CDMA BC10 (Voice / Data) + WLAN (Data) + BT (Data)	No	Yes	No
22	LTE 2 (Data) + WLAN (Data) + BT (Data)	No	Yes	No
23	LTE 4 (Data) + WLAN (Data) + BT (Data)	No	Yes	No
24	LTE 5 (Data) + WLAN (Data) + BT (Data)	No	Yes	No
25	LTE 12 (Data) + WLAN (Data) + BT (Data)	No	Yes	No
26	LTE 25 (Data) + WLAN (Data) + BT (Data)	No	Yes	No
27	LTE 26 (Data) + WLAN (Data) + BT (Data)	No	Yes	No
28	LTE 41 (Data) + WLAN (Data) + BT (Data)	No	Yes	No

Note:

1. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
2. Only 2.4G WLAN (802.11b/g/n) supports wireless hotspot capability. 5G WLAN (802.11a/n/ac) does not support wireless hotspot mode.

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 (%)
Jul. 27, 2016	Head	750	23.7	0.895	41.325	0.89	41.9	0.56	-1.37
Jul. 24, 2016	Head	835	23.3	0.911	41.852	0.90	41.5	1.22	0.85
Jul. 27, 2016	Head	835	23.8	0.902	43.047	0.90	41.5	0.22	3.73
Jul. 23, 2016	Head	1750	23.2	1.328	40.494	1.37	40.1	-3.07	0.98
Jul. 28, 2016	Head	1750	23.7	1.330	40.802	1.37	40.1	-2.92	1.75
Jul. 23, 2016	Head	1900	23.2	1.459	38.970	1.40	40.0	4.21	-2.58
Jul. 24, 2016	Head	1900	23.2	1.461	39.860	1.40	40.0	4.36	-0.35
Jul. 28, 2016	Head	1900	23.7	1.458	40.370	1.40	40.0	4.14	0.92
Jul. 23, 2016	Head	2450	23.1	1.873	39.677	1.80	39.2	4.06	1.22
Jul. 23, 2016	Head	2600	23.1	2.025	39.144	1.96	39.0	3.32	0.37
Jul. 29, 2016	Head	5250	23.4	4.580	36.321	4.71	35.9	-2.76	1.17
Jul. 29, 2016	Head	5600	23.4	4.966	35.967	5.07	35.5	-2.05	1.32
Jul. 29, 2016	Head	5800	23.4	5.105	35.566	5.27	35.3	-3.13	0.75
Jul. 30, 2016	Body	750	23.3	0.959	56.410	0.96	55.5	-0.10	1.64
Jul. 21, 2016	Body	835	23.2	0.996	55.654	0.97	55.2	2.68	0.82
Jul. 29, 2016	Body	835	23.5	1.000	55.299	0.97	55.2	3.09	0.18
Jul. 30, 2016	Body	835	23.2	1.014	54.813	0.97	55.2	4.54	-0.70
Jul. 21, 2016	Body	1750	23.3	1.432	52.800	1.49	53.4	-3.89	-1.12
Jul. 22, 2016	Body	1750	23.1	1.432	52.801	1.49	53.4	-3.89	-1.12
Jul. 28, 2016	Body	1750	23.7	1.457	51.266	1.49	53.4	-2.21	-4.00
Jul. 29, 2016	Body	1750	23.3	1.438	51.413	1.49	53.4	-3.49	-3.72
Jul. 28, 2016	Body	1900	23.7	1.584	50.865	1.52	53.3	4.21	-4.57
Jul. 29, 2016	Body	1900	23.3	1.573	51.016	1.52	53.3	3.49	-4.29
Aug. 04, 2016	Body	1900	23.5	1.571	51.168	1.52	53.3	3.36	-4.00
Jul. 21, 2016	Body	2450	23.2	2.018	50.978	1.95	52.7	3.49	-3.27
Jul. 22, 2016	Body	2450	23.3	2.022	51.924	1.95	52.7	3.69	-1.47
Jul. 29, 2016	Body	2450	23.5	1.996	51.302	1.92	52.7	3.96	-2.65
Jul. 27, 2016	Body	2600	23.7	2.193	50.270	2.16	52.5	1.53	-4.25
Jul. 29, 2016	Body	5250	23.4	5.418	47.438	5.36	48.9	1.08	-2.99
Jul. 29, 2016	Body	5600	23.4	5.895	46.767	5.77	48.5	2.17	-3.57
Jul. 21, 2016	Body	5800	23.5	5.726	48.988	6.00	48.2	-4.57	1.63
Jul. 29, 2016	Body	5800	23.4	6.181	46.386	6.00	48.2	3.02	-3.76

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
Jul. 27, 2016	1790	Head	750	0.895	41.325	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 24, 2016	7346	Head	835	0.911	41.852	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 27, 2016	1790	Head	835	0.902	43.047	Pass	Pass	Pass	GMSK	Pass	N/A
Jul. 23, 2016	7346	Head	1750	1.328	40.494	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 28, 2016	3971	Head	1750	1.330	40.802	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 23, 2016	7346	Head	1900	1.459	38.970	Pass	Pass	Pass	GMSK	Pass	N/A
Jul. 24, 2016	7346	Head	1900	1.461	39.860	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 28, 2016	3971	Head	1900	1.458	40.370	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 23, 2016	7346	Head	2450	1.873	39.677	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 23, 2016	7346	Head	2600	2.025	39.144	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 29, 2016	7350	Head	5250	4.580	36.321	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 29, 2016	7350	Head	5600	4.966	35.967	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 29, 2016	7350	Head	5800	5.105	35.566	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 30, 2016	3971	Body	750	0.959	56.410	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 21, 2016	3971	Body	835	0.996	55.654	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 29, 2016	7346	Body	835	1.000	55.299	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 30, 2016	7346	Body	835	1.014	54.813	Pass	Pass	Pass	GMSK	Pass	N/A
Jul. 21, 2016	3971	Body	1750	1.432	52.800	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 22, 2016	3820	Body	1750	1.432	52.801	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 28, 2016	3971	Body	1750	1.457	51.266	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 29, 2016	3971	Body	1750	1.438	51.413	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 28, 2016	3971	Body	1900	1.584	50.865	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 29, 2016	3971	Body	1900	1.573	51.016	Pass	Pass	Pass	GMSK	Pass	N/A
Aug. 04, 2016	3971	Body	1900	1.571	51.168	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 21, 2016	3971	Body	2450	2.018	50.978	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 22, 2016	3971	Body	2450	2.022	51.924	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 29, 2016	7350	Body	2450	1.996	51.302	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 27, 2016	3971	Body	2600	2.193	50.270	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 29, 2016	7350	Body	5250	5.418	47.438	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 29, 2016	7350	Body	5600	5.895	46.767	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 21, 2016	3971	Body	5800	5.726	48.988	Pass	Pass	Pass	OFDM	N/A	Pass
Jul. 29, 2016	7350	Body	5800	6.181	46.386	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
Jul. 27, 2016	Head	750	8.07	2.06	8.24	2.11	1013	1790	861
Jul. 24, 2016	Head	835	9.11	2.24	8.96	-1.65	4d121	7346	905
Jul. 27, 2016	Head	835	9.11	2.36	9.44	3.62	4d121	1790	393
Jul. 23, 2016	Head	1750	37.00	8.75	35.00	-5.41	1055	7346	905
Jul. 28, 2016	Head	1750	37.00	8.85	35.40	-4.32	1055	3971	1431
Jul. 23, 2016	Head	1900	38.90	9.53	38.12	-2.01	5d036	7346	905
Jul. 24, 2016	Head	1900	38.90	9.78	39.12	0.57	5d036	7346	905
Jul. 28, 2016	Head	1900	38.90	9.90	39.60	1.80	5d036	3971	1431
Jul. 23, 2016	Head	2450	53.00	13.50	54.00	1.89	737	7346	905
Jul. 23, 2016	Head	2600	56.70	15.10	60.40	6.53	1020	7346	905
Jul. 29, 2016	Head	5250	82.40	7.76	77.60	-5.83	1019	7350	1305
Jul. 29, 2016	Head	5600	83.90	8.11	81.10	-3.34	1019	7350	1305
Jul. 29, 2016	Head	5800	81.80	7.96	79.60	-2.69	1019	7350	1305
Jul. 30, 2016	Body	750	8.44	2.01	8.04	-4.74	1013	3971	1431
Jul. 21, 2016	Body	835	9.20	2.44	9.76	6.09	4d121	3971	1431
Jul. 29, 2016	Body	835	9.20	2.46	9.84	6.96	4d121	7346	905
Jul. 30, 2016	Body	835	9.20	2.13	8.52	-7.39	4d121	7346	905
Jul. 21, 2016	Body	1750	37.60	8.93	35.72	-5.00	1055	3971	1431
Jul. 22, 2016	Body	1750	37.60	9.39	37.56	-0.11	1055	3820	393
Jul. 28, 2016	Body	1750	37.60	9.64	38.56	2.55	1055	3971	1431
Jul. 29, 2016	Body	1750	37.60	9.51	38.04	1.17	1055	3971	1431
Jul. 28, 2016	Body	1900	40.70	10.10	40.40	-0.74	5d036	3971	1431
Jul. 29, 2016	Body	1900	40.70	10.00	40.00	-1.72	5d036	3971	1431
Aug. 04, 2016	Body	1900	40.70	10.20	41.28	1.43	5d036	3971	1431
Jul. 21, 2016	Body	2450	51.10	12.30	49.20	-3.72	737	3971	1431
Jul. 22, 2016	Body	2450	51.10	12.20	48.80	-4.50	737	3971	1431
Jul. 29, 2016	Body	2450	51.10	12.50	50.00	-2.15	737	7350	1305
Jul. 27, 2016	Body	2600	55.40	13.80	55.20	-0.36	1020	3971	1431
Jul. 29, 2016	Body	5250	76.40	7.94	79.40	3.93	1019	7350	1305
Jul. 29, 2016	Body	5600	79.80	7.96	79.60	-0.25	1019	7350	1305
Jul. 21, 2016	Body	5800	77.30	7.43	74.30	-3.88	1019	3971	1431
Jul. 29, 2016	Body	5800	77.30	7.60	76.00	-1.68	1019	7350	1305

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	Maximum Burst-Averaged Output Power		Maximum Frame-Averaged Output Power	
	GSM850	GSM1900	GSM850	GSM1900
GSM (GMSK, 1Tx-slot)	33.9	31.4	24.9	22.4
GPRS (GMSK, 1Tx-slot)	33.9	31.4	24.9	22.4
GPRS (GMSK, 2Tx-slot)	30.9	28.4	24.9	22.4
GPRS (GMSK, 3Tx-slot)	29.1	26.6	24.8	22.3
GPRS (GMSK, 4Tx-slot)	27.9	25.4	24.9	22.4
EDGE (8PSK, 1Tx-slot)	27.9	27.4	18.9	18.4
EDGE (8PSK, 2Tx-slot)	24.9	24.4	18.9	18.4
EDGE (8PSK, 3Tx-slot)	23.1	22.6	18.8	18.3
EDGE (8PSK, 4Tx-slot)	21.9	21.4	18.9	18.4

Note:

1. SAR testing was performed on the maximum frame-averaged power mode.
2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
   Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8)

Mode	WCDMA Band II	WCDMA Band V
RMC 12.2K	24.7	24.7
HSDPA	24.0	24.0
HSUPA	24.0	24.0

Mode	CDMA BC0	CDMA BC1	CDMA BC10
1xRTT	25.4	25.4	25.4
1xEVDO Rev.0	25.4	25.4	25.4
1xEVDO Rev.A	25.4	25.4	25.4

Mode	LTE 2	LTE 4	LTE 5	LTE 12
QPSK / 16QAM	24.9	25.0	24.7	24.9

Mode	LTE 25	LTE 26	LTE 41
QPSK / 16QAM	L CH:24.6 M CH:24.6 H CH:24.4	24.7	L CH:23.9 M CH:24.2 H CH:24.7

Mode	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
802.11b	22.5	N/A	N/A	N/A	N/A
802.11g	Ch 1：18.8 Ch 6：21.3 Ch 11：18.8	N/A	N/A	N/A	N/A
802.11a	N/A	Ch 36：17.0 Ch 40~48：19.5	Ch 52~60：19.5 Ch 60：17.0	Ch 100：15.0 Ch 104~136：19.5 Ch 140：15.0	Ch 149：13.0 Ch 153~161：19.5 Ch 165：17.0
802.11n HT20	Ch 1：18.8 Ch 6：21.3 Ch 11：18.8	Ch 36：17.0 Ch 40~48：19.5	Ch 52~60：19.5 Ch 60：17.0	Ch 100：15.0 Ch 104~136：19.5 Ch 140：15.0	Ch 149：13.0 Ch 153~161：19.5 Ch 165：17.0
802.11n HT40	N/A	Ch 38：13.5 Ch 46：15.5	Ch 54：15.5 Ch 62：13.5	Ch 102：12.5 Ch 110~134：15.5	Ch 151：13.5 Ch 159：15.0
802.11ac VHT80	N/A	14.5	15.5	15.5	14.0

Mode	2.4G Bluetooth
Bluetooth DH	Ch 0：8.7 Ch 39：9.7 Ch 78：6.7

4.6.2 Measured Conducted Power Result

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

Band	GSM850			GSM1900		
Channel	**128**	**189**	**251**	**512**	**661**	**810**
Frequency (MHz)	**824.2**	**836.4**	**848.8**	**1850.2**	**1880.0**	**1909.8**
Maximum Burst-Averaged Output Power						
GSM (GMSK, 1Tx-slot)	32.60	32.44	**32.61**	29.90	29.92	29.73
GPRS (GMSK, 1Tx-slot)	32.59	32.43	32.60	29.92	**29.95**	29.82
GPRS (GMSK, 2Tx-slot)	29.51	29.35	29.52	27.35	27.36	27.17
GPRS (GMSK, 3Tx-slot)	27.62	27.46	27.63	25.11	25.16	25.05
GPRS (GMSK, 4Tx-slot)	26.24	26.08	26.25	23.77	23.87	23.74
EDGE (8PSK, 1Tx-slot)	26.64	26.48	26.65	25.66	25.71	25.56
EDGE (8PSK, 2Tx-slot)	23.53	23.37	23.54	22.97	23.01	22.83
EDGE (8PSK, 3Tx-slot)	21.72	21.56	21.73	21.18	21.21	21.03
EDGE (8PSK, 4Tx-slot)	20.45	20.29	20.46	19.94	19.95	19.78

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	
RMC 12.2K	23.63	23.61	**23.69**	23.85	23.68	**23.89**	-
HSDPA Subtest-1	22.67	22.65	22.73	22.86	22.69	22.90	0
HSDPA Subtest-2	22.63	22.61	22.69	22.80	22.63	22.84	0
HSDPA Subtest-3	22.15	22.13	22.21	22.36	22.19	22.40	0.5
HSDPA Subtest-4	22.13	22.11	22.19	22.34	22.17	22.38	0.5
HSUPA Subtest-1	22.81	22.79	22.87	22.82	22.65	22.86	0
HSUPA Subtest-2	20.77	20.75	20.83	20.85	20.68	20.89	2
HSUPA Subtest-3	21.81	21.79	21.87	21.74	21.57	21.78	1
HSUPA Subtest-4	20.70	20.68	20.76	20.80	20.63	20.84	2
HSUPA Subtest-5	22.75	22.73	22.81	22.81	22.64	22.85	0

Band	CDMA BC0			CDMA BC1		
Channel	1013	384	777	25	600	1175
Frequency (MHz)	824.70	836.52	848.31	1851.25	1880.00	1908.75
1xRTT RC1+SO55	24.36	24.51	24.61	24.42	24.24	24.51
1xRTT RC3+SO55	24.38	24.53	**24.63**	24.61	24.43	**24.70**
1xRTT RC3+SO32 (FCH)	24.32	24.47	24.57	24.59	24.41	24.68
1xRTT RC3+SO32 (SCH)	24.29	24.44	24.54	24.60	24.42	24.69
1xEVDO Rev.0 RTAP 153.6	24.11	24.26	24.36	24.52	24.34	24.61
1xEVDO Rev.A RETAP 4096	24.35	24.50	24.58	24.43	24.24	24.56

Band	CDMA BC10		
Channel	476	580	684
Frequency (MHz)	817.9	820.5	823.1
1xRTT RC1+SO55	24.36	24.37	24.46
1xRTT RC3+SO55	24.37	24.38	**24.47**
1xRTT RC3+SO32 (FCH)	24.33	24.34	24.43
1xRTT RC3+SO32 (SCH)	24.30	24.31	24.40
1xEVDO Rev.0 RTAP 153.6	24.12	24.13	24.22
1xEVDO Rev.A RETAP 4096	24.37	24.40	24.42

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 18607 1850.7 MHz	QPSK Mid CH 18900 1880.0 MHz	QPSK High CH 19193 1909.3 MHz	3GPP MPR (dB)	16QAM Low CH 18607 1850.7 MHz	16QAM Mid CH 18900 1880.0 MHz	16QAM High CH 19193 1909.3 MHz	3GPP MPR (dB)
2 / 1.4M	1	0	23.16	**23.26**	23.22	0	22.11	**22.21**	22.17	1
	1	2	23.10	23.20	23.16	0	22.05	22.15	22.11	1
	1	5	23.03	23.13	23.09	0	21.98	22.08	22.04	1
	3	0	23.15	23.25	23.21	0	22.10	22.20	22.16	1
	3	1	22.97	23.07	23.03	0	21.92	22.02	21.98	1
	3	3	23.02	23.12	23.08	0	21.97	22.07	22.03	1
	6	0	22.11	22.21	22.17	1	21.06	21.16	21.12	2

LTE 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)
2 / 3M	1	0	23.24	**23.34**	23.30	0	22.19	**22.29**	22.25	1
	1	7	23.18	23.28	23.24	0	22.13	22.23	22.19	1
	1	14	23.11	23.21	23.17	0	22.06	22.16	22.12	1
	8	0	22.25	22.35	22.31	1	21.20	21.30	21.26	2
	8	3	22.07	22.17	22.13	1	21.02	21.12	21.08	2
	8	7	22.12	22.22	22.18	1	21.07	21.17	21.13	2
	15	0	22.19	22.29	22.25	1	21.14	21.24	21.20	2

LTE 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)
2 / 5M	1	0	23.35	**23.45**	23.41	0	22.30	**22.40**	22.36	1
	1	12	23.29	23.39	23.35	0	22.24	22.34	22.30	1
	1	24	23.22	23.32	23.28	0	22.17	22.27	22.23	1
	12	0	22.36	22.46	22.42	1	21.31	21.41	21.37	2
	12	6	22.18	22.28	22.24	1	21.13	21.23	21.19	2
	12	13	22.23	22.33	22.29	1	21.18	21.28	21.24	2
	25	0	22.30	22.40	22.36	1	21.25	21.35	21.31	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 18650 1855.0 MHz	QPSK Mid CH 18900 1880.0 MHz	QPSK High CH 19150 1905.0 MHz	3GPP MPR (dB)	16QAM Low CH 18650 1855.0 MHz	16QAM Mid CH 18900 1880.0 MHz	16QAM High CH 19150 1905.0 MHz	3GPP MPR (dB)
2 / 10M	1	0	23.48	**23.58**	23.54	0	22.43	**22.53**	22.49	1
	1	24	23.42	23.52	23.48	0	22.37	22.47	22.43	1
	1	49	23.35	23.45	23.41	0	22.30	22.40	22.36	1
	25	0	22.49	22.59	22.55	1	21.44	21.54	21.50	2
	25	12	22.31	22.41	22.37	1	21.26	21.36	21.32	2
	25	25	22.36	22.46	22.42	1	21.31	21.41	21.37	2
	50	0	22.43	22.53	22.49	1	21.38	21.48	21.44	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 18675 1857.5 MHz	QPSK Mid CH 18900 1880.0 MHz	QPSK High CH 19125 1902.5 MHz	3GPP MPR (dB)	16QAM Low CH 18675 1857.5 MHz	16QAM Mid CH 18900 1880.0 MHz	16QAM High CH 19125 1902.5 MHz	3GPP MPR (dB)
2 / 15M	1	0	23.57	**23.67**	23.63	0	22.52	**22.62**	22.58	1
	1	37	23.51	23.61	23.57	0	22.46	22.56	22.52	1
	1	74	23.44	23.54	23.50	0	22.39	22.49	22.45	1
	36	0	22.58	22.68	22.64	1	21.53	21.63	21.59	2
	36	19	22.40	22.50	22.46	1	21.35	21.45	21.41	2
	36	39	22.45	22.55	22.51	1	21.40	21.50	21.46	2
	75	0	22.52	22.62	22.58	1	21.47	21.57	21.53	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 18700 1860.0 MHz	QPSK Mid CH 18900 1880.0 MHz	QPSK High CH 19100 1900.0 MHz	3GPP MPR (dB)	16QAM Low CH 18700 1860.0 MHz	16QAM Mid CH 18900 1880.0 MHz	16QAM High CH 19100 1900.0 MHz	3GPP MPR (dB)
2 / 20M	1	0	23.71	**23.81**	23.77	0	22.66	**22.76**	22.72	1
	1	50	23.65	23.75	23.71	0	22.60	22.70	22.66	1
	1	99	23.58	23.68	23.64	0	22.53	22.63	22.59	1
	50	0	22.72	22.82	22.78	1	21.67	21.77	21.73	2
	50	25	22.54	22.64	22.60	1	21.49	21.59	21.55	2
	50	50	22.59	22.69	22.65	1	21.54	21.64	21.60	2
	100	0	22.66	22.76	22.72	1	21.61	21.71	21.67	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 19957 1710.7 MHz	QPSK Mid CH 20175 1732.5 MHz	QPSK High CH 20393 1754.3 MHz	3GPP MPR (dB)	16QAM Low CH 19957 1710.7 MHz	16QAM Mid CH 20175 1732.5 MHz	16QAM High CH 20393 1754.3 MHz	3GPP MPR (dB)
4 / 1.4M	1	0	23.73	**23.86**	23.79	0	22.67	**22.80**	22.73	1
	1	2	23.61	23.74	23.67	0	22.55	22.68	22.61	1
	1	5	23.49	23.62	23.55	0	22.43	22.56	22.49	1
	3	0	23.37	23.50	23.43	0	22.31	22.44	22.37	1
	3	1	23.31	23.44	23.37	0	22.25	22.38	22.31	1
	3	3	23.22	23.35	23.28	0	22.16	22.29	22.22	1
	6	0	22.60	22.73	22.66	1	21.54	21.67	21.60	2

LTE 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)
4 / 3M	1	0	23.80	**23.93**	23.86	0	22.74	**22.87**	22.80	1
	1	7	23.68	23.81	23.74	0	22.62	22.75	22.68	1
	1	14	23.56	23.69	23.62	0	22.50	22.63	22.56	1
	8	0	22.74	22.87	22.80	1	21.68	21.81	21.74	2
	8	3	22.68	22.81	22.74	1	21.62	21.75	21.68	2
	8	7	22.59	22.72	22.65	1	21.53	21.66	21.59	2
	15	0	22.67	22.80	22.73	1	21.61	21.74	21.67	2

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19975	Mid CH 20175	High CH 20375		Low CH 19975	Mid CH 20175	High CH 20375	
			1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz	
4 / 5M	1	0	23.92	**24.05**	23.98	0	22.86	**22.99**	22.92	1
	1	12	23.80	23.93	23.86	0	22.74	22.87	22.80	1
	1	24	23.68	23.81	23.74	0	22.62	22.75	22.68	1
	12	0	22.86	22.99	22.92	1	21.80	21.93	21.86	2
	12	6	22.80	22.93	22.86	1	21.74	21.87	21.80	2
	12	13	22.71	22.84	22.77	1	21.65	21.78	21.71	2
	25	0	22.79	22.92	22.85	1	21.73	21.86	21.79	2

LTE 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	
4 / 10M	1	0	24.00	**24.13**	24.06	0	22.94	**23.07**	23.00	1
	1	24	23.88	24.01	23.94	0	22.82	22.95	22.88	1
	1	49	23.76	23.89	23.82	0	22.70	22.83	22.76	1
	25	0	22.94	23.07	23.00	1	21.88	22.01	21.94	2
	25	12	22.88	23.01	22.94	1	21.82	21.95	21.88	2
	25	25	22.79	22.92	22.85	1	21.73	21.86	21.79	2
	50	0	22.87	23.00	22.93	1	21.81	21.94	21.87	2

LTE 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	
4 / 15M	1	0	24.13	**24.26**	24.19	0	23.07	**23.20**	23.13	1
	1	37	24.01	24.14	24.07	0	22.95	23.08	23.01	1
	1	74	23.89	24.02	23.95	0	22.83	22.96	22.89	1
	36	0	23.07	23.20	23.13	1	22.01	22.14	22.07	2
	36	19	23.01	23.14	23.07	1	21.95	22.08	22.01	2
	36	39	22.92	23.05	22.98	1	21.86	21.99	21.92	2
	75	0	23.00	23.13	23.06	1	21.94	22.07	22.00	2

LTE 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	
4 / 20M	1	0	24.22	**24.35**	24.28	0	23.16	**23.29**	23.22	1
	1	50	24.10	24.23	24.16	0	23.04	23.17	23.10	1
	1	99	23.98	24.11	24.04	0	22.92	23.05	22.98	1
	50	0	23.16	23.29	23.22	1	22.10	22.23	22.16	2
	50	25	23.10	23.23	23.16	1	22.04	22.17	22.10	2
	50	50	23.01	23.14	23.07	1	21.95	22.08	22.01	2
	100	0	23.09	23.22	23.15	1	22.03	22.16	22.09	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 20407 824.7 MHz	QPSK Mid CH 20525 836.5 MHz	QPSK High CH 20643 848.3 MHz	3GPP MPR (dB)	16QAM Low CH 20407 824.7 MHz	16QAM Mid CH 20525 836.5 MHz	16QAM High CH 20643 848.3 MHz	3GPP MPR (dB)
5 / 1.4M	1	0	23.50	**23.62**	23.41	0	22.42	**22.54**	22.33	1
	1	2	23.38	23.50	23.29	0	22.30	22.42	22.21	1
	1	5	23.32	23.44	23.23	0	22.24	22.36	22.15	1
	3	0	23.11	23.23	23.02	0	22.03	22.15	21.94	1
	3	1	23.07	23.19	22.98	0	21.99	22.11	21.90	1
	3	3	23.04	23.16	22.95	0	21.96	22.08	21.87	1
	6	0	22.26	22.38	22.17	1	21.18	21.30	21.09	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 20415 825.5 MHz	QPSK Mid CH 20525 836.5 MHz	QPSK High CH 20635 847.5 MHz	3GPP MPR (dB)	16QAM Low CH 20415 825.5 MHz	16QAM Mid CH 20525 836.5 MHz	16QAM High CH 20635 847.5 MHz	3GPP MPR (dB)
5 / 3M	1	0	23.63	**23.75**	23.54	0	22.55	**22.67**	22.46	1
	1	7	23.51	23.63	23.42	0	22.43	22.55	22.34	1
	1	14	23.45	23.57	23.36	0	22.37	22.49	22.28	1
	8	0	22.44	22.56	22.35	1	21.36	21.48	21.27	2
	8	3	22.40	22.52	22.31	1	21.32	21.44	21.23	2
	8	7	22.37	22.49	22.28	1	21.29	21.41	21.20	2
	15	0	22.39	22.51	22.30	1	21.31	21.43	21.22	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 20425 826.5 MHz	QPSK Mid CH 20525 836.5 MHz	QPSK High CH 20625 846.5 MHz	3GPP MPR (dB)	16QAM Low CH 20425 826.5 MHz	16QAM Mid CH 20525 836.5 MHz	16QAM High CH 20625 846.5 MHz	3GPP MPR (dB)
5 / 5M	1	0	23.75	**23.87**	23.66	0	22.67	**22.79**	22.58	1
	1	12	23.63	23.75	23.54	0	22.55	22.67	22.46	1
	1	24	23.57	23.69	23.48	0	22.49	22.61	22.40	1
	12	0	22.56	22.68	22.47	1	21.48	21.60	21.39	2
	12	6	22.52	22.64	22.43	1	21.44	21.56	21.35	2
	12	13	22.49	22.61	22.40	1	21.41	21.53	21.32	2
	25	0	22.51	22.63	22.42	1	21.43	21.55	21.34	2

LTE 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)
5 / 10M	1	0	23.83	**23.95**	23.74	0	22.75	**22.87**	22.66	1
	1	24	23.71	23.83	23.62	0	22.63	22.75	22.54	1
	1	49	23.65	23.77	23.56	0	22.57	22.69	22.48	1
	25	0	22.64	22.76	22.55	1	21.56	21.68	21.47	2
	25	12	22.60	22.72	22.51	1	21.52	21.64	21.43	2
	25	25	22.57	22.69	22.48	1	21.49	21.61	21.40	2
	50	0	22.59	22.71	22.50	1	21.51	21.63	21.42	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 23017 699.7 MHz	QPSK Mid CH 23095 707.5 MHz	QPSK High CH 23173 715.3 MHz	3GPP MPR (dB)	16QAM Low CH 23017 699.7 MHz	16QAM Mid CH 23095 707.5 MHz	16QAM High CH 23173 715.3 MHz	3GPP MPR (dB)
12 / 1.4M	1	0	23.96	23.67	23.88	0	23.01	22.70	22.89	1
	1	2	**24.38**	24.10	24.28	0	**23.44**	23.14	23.37	1
	1	5	24.08	23.77	23.92	0	23.19	22.79	22.93	1
	3	0	23.27	23.22	23.17	0	22.30	22.12	22.07	1
	3	1	23.13	23.08	22.99	0	22.20	22.15	22.00	1
	3	3	23.21	23.14	23.12	0	22.25	22.11	22.16	1
	6	0	23.13	22.81	23.04	1	22.16	21.73	21.94	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 23025 700.5 MHz	QPSK Mid CH 23095 707.5 MHz	QPSK High CH 23165 714.5 MHz	3GPP MPR (dB)	16QAM Low CH 23025 700.5 MHz	16QAM Mid CH 23095 707.5 MHz	16QAM High CH 23165 714.5 MHz	3GPP MPR (dB)
12 / 3M	1	0	24.06	23.78	23.98	0	23.10	22.81	23.03	1
	1	7	**24.41**	24.18	24.39	0	**23.46**	23.24	23.35	1
	1	14	24.20	23.87	24.00	0	23.22	22.90	23.08	1
	8	0	23.33	23.00	23.25	1	22.40	21.97	22.22	2
	8	3	23.27	22.96	23.10	1	22.28	21.93	22.10	2
	8	7	23.30	23.00	23.25	1	22.34	21.97	22.25	2
	15	0	23.23	22.93	23.13	1	22.29	21.89	22.05	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 23035 701.5 MHz	QPSK Mid CH 23095 707.5 MHz	QPSK High CH 23155 713.5 MHz	3GPP MPR (dB)	16QAM Low CH 23035 701.5 MHz	16QAM Mid CH 23095 707.5 MHz	16QAM High CH 23155 713.5 MHz	3GPP MPR (dB)
12 / 5M	1	0	24.11	23.87	24.05	0	23.13	22.88	23.07	1
	1	12	**24.48**	24.24	24.37	0	**23.52**	23.27	23.44	1
	1	24	24.22	23.96	24.10	0	23.27	22.97	23.16	1
	12	0	23.47	23.13	23.34	1	22.43	22.09	22.33	2
	12	6	23.37	23.11	23.29	1	22.39	22.05	22.19	2
	12	13	23.41	23.13	23.36	1	22.43	22.09	22.37	2
	25	0	23.32	23.08	23.28	1	22.30	22.03	22.21	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 23060 704.0 MHz	QPSK Mid CH 23095 707.5 MHz	QPSK High CH 23130 711.0 MHz	3GPP MPR (dB)	16QAM Low CH 23060 704.0 MHz	16QAM Mid CH 23095 707.5 MHz	16QAM High CH 23130 711.0 MHz	3GPP MPR (dB)
12 / 10M	1	0	24.19	23.95	24.13	0	23.21	22.95	23.14	1
	1	24	**24.54**	24.30	24.41	0	**23.57**	23.33	23.45	1
	1	49	24.26	24.04	24.22	0	23.34	23.05	23.20	1
	25	0	23.57	23.27	23.48	1	22.60	22.24	22.45	2
	25	12	23.46	23.25	23.38	1	22.45	22.21	22.38	2
	25	25	23.51	23.27	23.45	1	22.50	22.24	22.45	2
	50	0	23.44	23.23	23.37	1	22.45	22.19	22.31	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 26047 1850.7 MHz	QPSK Mid CH 26365 1882.5 MHz	QPSK High CH 26683 1914.3 MHz	3GPP MPR (dB)	16QAM Low CH 26047 1850.7 MHz	16QAM Mid CH 26365 1882.5 MHz	16QAM High CH 26683 1914.3 MHz	3GPP MPR (dB)
25 / 1.4M	1	0	22.96	**23.11**	23.06	0	21.89	**22.04**	21.99	1
	1	2	22.77	22.92	22.87	0	21.70	21.85	21.80	1
	1	5	22.71	22.86	22.81	0	21.64	21.79	21.74	1
	3	0	22.62	22.73	22.68	0	21.62	21.66	21.61	1
	3	1	22.61	22.71	22.66	0	21.61	21.64	21.63	1
	3	3	22.64	22.79	22.74	0	21.63	21.72	21.67	1
	6	0	21.88	22.03	21.98	1	20.81	20.96	20.91	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 26055 1851.5 MHz	QPSK Mid CH 26365 1882.5 MHz	QPSK High CH 26675 1913.5 MHz	3GPP MPR (dB)	16QAM Low CH 26055 1851.5 MHz	16QAM Mid CH 26365 1882.5 MHz	16QAM High CH 26675 1913.5 MHz	3GPP MPR (dB)
25 / 3M	1	0	23.05	**23.20**	23.15	0	21.98	**22.13**	22.08	1
	1	7	22.86	23.01	22.96	0	21.79	21.94	21.89	1
	1	14	22.80	22.95	22.90	0	21.73	21.88	21.83	1
	8	0	21.92	22.07	22.02	1	20.85	21.00	20.95	2
	8	3	21.90	22.05	22.00	1	20.83	20.98	20.93	2
	8	7	21.98	22.13	22.08	1	20.91	21.06	21.01	2
	15	0	21.97	22.12	22.07	1	20.90	21.05	21.00	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 26065 1852.5 MHz	QPSK Mid CH 26365 1882.5 MHz	QPSK High CH 26665 1912.5 MHz	3GPP MPR (dB)	16QAM Low CH 26065 1852.5 MHz	16QAM Mid CH 26365 1882.5 MHz	16QAM High CH 26665 1912.5 MHz	3GPP MPR (dB)
25 / 5M	1	0	23.20	**23.35**	23.30	0	22.13	**22.28**	22.23	1
	1	12	23.01	23.16	23.11	0	21.94	22.09	22.04	1
	1	24	22.95	23.10	23.05	0	21.88	22.03	21.98	1
	12	0	22.07	22.22	22.17	1	21.00	21.15	21.10	2
	12	6	22.05	22.20	22.15	1	20.98	21.13	21.08	2
	12	13	22.13	22.28	22.23	1	21.06	21.21	21.16	2
	25	0	22.12	22.27	22.22	1	21.05	21.20	21.15	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 26090 1855.0 MHz	QPSK Mid CH 26365 1882.5 MHz	QPSK High CH 26640 1910.0 MHz	3GPP MPR (dB)	16QAM Low CH 26090 1855.0 MHz	16QAM Mid CH 26365 1882.5 MHz	16QAM High CH 26640 1910.0 MHz	3GPP MPR (dB)
25 / 10M	1	0	23.31	**23.46**	23.41	0	22.24	**22.39**	22.34	1
	1	24	23.12	23.27	23.22	0	22.05	22.20	22.15	1
	1	49	23.06	23.21	23.16	0	21.99	22.14	22.09	1
	25	0	22.18	22.33	22.28	1	21.11	21.26	21.21	2
	25	12	22.16	22.31	22.26	1	21.09	21.24	21.19	2
	25	25	22.24	22.39	22.34	1	21.17	21.32	21.27	2
	50	0	22.23	22.38	22.33	1	21.16	21.31	21.26	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 26115 1857.5 MHz	QPSK Mid CH 26365 1882.5 MHz	QPSK High CH 26615 1907.5 MHz	3GPP MPR (dB)	16QAM Low CH 26115 1857.5 MHz	16QAM Mid CH 26365 1882.5 MHz	16QAM High CH 26615 1907.5 MHz	3GPP MPR (dB)
25 / 15M	1	0	23.39	**23.54**	23.49	0	22.32	**22.47**	22.42	1
	1	37	23.20	23.35	23.30	0	22.13	22.28	22.23	1
	1	74	23.14	23.29	23.24	0	22.07	22.22	22.17	1
	36	0	22.26	22.41	22.36	1	21.19	21.34	21.29	2
	36	19	22.24	22.39	22.34	1	21.17	21.32	21.27	2
	36	39	22.32	22.47	22.42	1	21.25	21.40	21.35	2
	75	0	22.31	22.46	22.41	1	21.24	21.39	21.34	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 26140 1860.0 MHz	QPSK Mid CH 26365 1882.5 MHz	QPSK High CH 26590 1905.0 MHz	3GPP MPR (dB)	16QAM Low CH 26140 1860.0 MHz	16QAM Mid CH 26365 1882.5 MHz	16QAM High CH 26590 1905.0 MHz	3GPP MPR (dB)
25 / 20M	1	0	23.51	**23.66**	23.61	0	22.44	**22.59**	22.54	1
	1	50	23.32	23.47	23.42	0	22.25	22.40	22.35	1
	1	99	23.26	23.41	23.36	0	22.19	22.34	22.29	1
	50	0	22.38	22.53	22.48	1	21.31	21.46	21.41	2
	50	25	22.36	22.51	22.46	1	21.29	21.44	21.39	2
	50	50	22.44	22.59	22.54	1	21.37	21.52	21.47	2
	100	0	22.43	22.58	22.53	1	21.36	21.51	21.46	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 26697 814.7 MHz	QPSK Mid CH 26865 831.5 MHz	QPSK High CH 27033 848.3 MHz	3GPP MPR (dB)	16QAM Low CH 26697 814.7 MHz	16QAM Mid CH 26865 831.5 MHz	16QAM High CH 27033 848.3 MHz	3GPP MPR (dB)
26 / 1.4M	1	0	23.34	23.30	**23.45**	0	22.31	22.27	**22.42**	1
	1	2	23.28	23.24	23.39	0	22.25	22.21	22.36	1
	1	5	23.32	23.28	23.43	0	22.29	22.25	22.40	1
	3	0	23.10	23.06	23.21	0	22.07	22.03	22.18	1
	3	1	23.06	23.02	23.17	0	22.03	21.99	22.14	1
	3	3	23.05	23.01	23.16	0	22.02	21.98	22.13	1
	6	0	22.27	22.23	22.38	1	21.24	21.20	21.35	2

LTE Band / BW	RB Size	RB Offset	QPSK Low CH 26705 815.5 MHz	QPSK Mid CH 26865 831.5 MHz	QPSK High CH 27025 847.5 MHz	3GPP MPR (dB)	16QAM Low CH 26705 815.5 MHz	16QAM Mid CH 26865 831.5 MHz	16QAM High CH 27025 847.5 MHz	3GPP MPR (dB)
26 / 3M	1	0	23.48	23.44	**23.59**	0	22.45	22.41	**22.56**	1
	1	7	23.42	23.38	23.53	0	22.39	22.35	22.50	1
	1	14	23.46	23.42	23.57	0	22.43	22.39	22.54	1
	8	0	22.47	22.43	22.58	1	21.44	21.40	21.55	2
	8	3	22.43	22.39	22.54	1	21.40	21.36	21.51	2
	8	7	22.42	22.38	22.53	1	21.39	21.35	21.50	2
	15	0	22.41	22.37	22.52	1	21.38	21.34	21.49	2

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26715	Mid CH 26865	High CH 27015		Low CH 26715	Mid CH 26865	High CH 27015	
			816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz	
26 / 5M	1	0	23.60	23.56	**23.71**	0	22.57	22.53	**22.68**	1
	1	12	23.54	23.50	23.65	0	22.51	22.47	22.62	1
	1	24	23.58	23.54	23.69	0	22.55	22.51	22.66	1
	12	0	22.59	22.55	22.70	1	21.56	21.52	21.67	2
	12	6	22.55	22.51	22.66	1	21.52	21.48	21.63	2
	12	13	22.54	22.50	22.65	1	21.51	21.47	21.62	2
	25	0	22.53	22.49	22.64	1	21.50	21.46	21.61	2

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26740	Mid CH 26865	High CH 26990		Low CH 26740	Mid CH 26865	High CH 26990	
			819.0 MHz	831.5 MHz	844.0 MHz		819.0 MHz	831.5 MHz	844.0 MHz	
26 / 10M	1	0	23.69	23.65	**23.80**	0	22.66	22.62	**22.77**	1
	1	24	23.63	23.59	23.74	0	22.60	22.56	22.71	1
	1	49	23.67	23.63	23.78	0	22.64	22.60	22.75	1
	25	0	22.68	22.64	22.79	1	21.65	21.61	21.76	2
	25	12	22.64	22.60	22.75	1	21.61	21.57	21.72	2
	25	25	22.63	22.59	22.74	1	21.60	21.56	21.71	2
	50	0	22.62	22.58	22.73	1	21.59	21.55	21.70	2

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26765	Mid CH 26865	High CH 26965		Low CH 26765	Mid CH 26865	High CH 26965	
			821.5 MHz	831.5 MHz	841.5 MHz		821.5 MHz	831.5 MHz	841.5 MHz	
26 / 15M	1	0	23.81	23.77	**23.92**	0	22.78	22.74	**22.89**	1
	1	37	23.75	23.71	23.86	0	22.72	22.68	22.83	1
	1	74	23.79	23.75	23.90	0	22.76	22.72	22.87	1
	36	0	22.80	22.76	22.91	1	21.77	21.73	21.88	2
	36	19	22.76	22.72	22.87	1	21.73	21.69	21.84	2
	36	39	22.75	22.71	22.86	1	21.72	21.68	21.83	2
	75	0	22.74	22.70	22.85	1	21.71	21.67	21.82	2

LTE Band / BW	RB Size	RB Offset	QPSK L-CH 39675 2498.5 MHz	QPSK M-CH 40148 2545.8 MHz	QPSK M-CH 40620 2593.0 MHz	QPSK M-CH 41093 2640.3 MHz	QPSK H-CH 41565 2687.5 MHz	3GPP MPR (dB)	16QAM L-CH 39675 2498.5 MHz	16QAM M-CH 40148 2545.8 MHz	16QAM M-CH 40620 2593.0 MHz	16QAM M-CH 41093 2640.3 MHz	16QAM H-CH 41565 2687.5 MHz	3GPP MPR (dB)
41 / 5M	1	0	22.07	22.30	22.82	22.73	23.24	0	21.10	21.43	21.85	21.75	22.34	1
	1	12	22.19	22.44	22.84	22.76	**23.35**	0	21.17	21.45	21.89	21.80	**22.40**	1
	1	24	21.96	22.11	22.53	22.38	23.15	0	20.94	21.01	21.55	21.35	22.02	1
	12	0	21.05	21.24	21.70	21.59	22.26	1	20.01	20.25	20.70	20.58	21.29	2
	12	6	21.09	21.32	21.75	21.68	22.43	1	20.05	20.38	20.77	20.68	21.41	2
	12	13	21.02	21.16	21.64	21.54	22.13	1	19.97	20.21	20.63	20.52	21.23	2
	25	0	21.14	21.34	21.72	21.64	22.29	1	20.07	20.31	20.74	20.62	21.29	2

LTE Band / BW	RB Size	RB Offset	QPSK L-CH 39700 2501.0 MHz	QPSK M-CH 40160 2547.0 MHz	QPSK M-CH 40620 2593.0 MHz	QPSK M-CH 41080 2639.0 MHz	QPSK H-CH 41540 2685.0 MHz	3GPP MPR (dB)	16QAM L-CH 39700 2501.0 MHz	16QAM M-CH 40160 2547.0 MHz	16QAM M-CH 40620 2593.0 MHz	16QAM M-CH 41080 2639.0 MHz	16QAM H-CH 41540 2685.0 MHz	3GPP MPR (dB)
41 / 10M	1	0	22.22	22.44	22.88	22.74	23.30	0	21.23	21.49	21.92	21.86	22.36	1
	1	24	22.27	22.49	22.90	22.82	**23.40**	0	21.29	21.51	21.95	21.88	**22.45**	1
	1	49	22.00	22.08	22.84	22.76	23.11	0	20.91	21.25	21.83	21.84	22.10	1
	25	0	21.20	21.38	21.82	21.72	22.35	1	20.14	20.38	20.81	20.90	21.37	2
	25	12	21.31	21.43	21.87	21.78	22.49	1	20.23	20.43	20.85	20.78	21.54	2
	25	25	21.16	21.30	21.76	21.88	22.31	1	20.11	20.35	20.76	20.83	21.20	2
	50	0	21.22	21.40	21.84	21.81	22.39	1	20.27	20.50	20.83	20.73	21.39	2

LTE Band / BW	RB Size	RB Offset	QPSK L-CH 39725 2503.5 MHz	QPSK M-CH 40173 2548.3 MHz	QPSK M-CH 40620 2593.0 MHz	QPSK M-CH 41068 2637.8 MHz	QPSK H-CH 41515 2682.5 MHz	3GPP MPR (dB)	16QAM L-CH 39725 2503.5 MHz	16QAM M-CH 40173 2548.3 MHz	16QAM M-CH 40620 2593.0 MHz	16QAM M-CH 41068 2637.8 MHz	16QAM H-CH 41515 2682.5 MHz	3GPP MPR (dB)
41 / 15M	1	0	22.25	22.52	22.93	22.78	23.34	0	21.34	21.52	21.97	21.86	22.42	1
	1	37	22.35	22.57	22.95	22.89	**23.45**	0	21.37	21.58	22.00	21.92	**22.50**	1
	1	74	22.10	22.28	22.76	22.81	23.19	0	21.01	21.22	21.73	21.84	22.21	1
	36	0	21.33	21.53	21.92	21.84	22.43	1	20.29	20.48	20.90	20.81	21.46	2
	36	19	21.47	21.64	21.97	21.88	22.54	1	20.43	20.55	20.95	20.87	21.54	2
	36	39	21.32	21.48	21.89	21.77	22.39	1	20.26	20.43	20.87	20.76	21.40	2
	75	0	21.37	21.59	21.95	21.90	22.44	1	20.33	20.60	20.93	20.88	21.48	2

LTE Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39750 2506.0 MHz	M-CH 40185 2549.5 MHz	M-CH 40620 2593.0 MHz	M-CH 41055 2636.5 MHz	H-CH 41490 2680.0 MHz		L-CH 39750 2506.0 MHz	M-CH 40185 2549.5 MHz	M-CH 40620 2593.0 MHz	M-CH 41055 2636.5 MHz	H-CH 41490 2680.0 MHz	
41 / 20M	1	0	22.45	22.63	22.99	22.87	23.45	0	21.41	21.63	22.03	21.88	22.45	1
	1	50	22.46	22.64	23.01	22.95	**23.50**	0	21.48	21.67	22.05	21.99	**22.55**	1
	1	99	22.13	22.42	22.73	22.75	23.16	0	21.20	21.38	21.77	21.71	22.31	1
	50	0	21.49	21.66	22.04	21.98	22.52	1	20.45	20.64	21.05	20.96	21.55	2
	50	25	21.59	21.76	22.08	22.03	22.59	1	20.52	20.78	21.09	21.02	21.67	2
	50	50	21.46	21.63	22.01	21.93	22.42	1	20.41	20.62	21.00	20.85	21.51	2
	100	0	21.50	21.71	22.06	22.00	22.54	1	20.45	20.70	21.07	21.03	21.58	2

Conducted Power Measurement for LTE-CA (Carrier Aggregation)									
PCC (Primary Component Carrier)					SCC (Secondary Component Carrier)			PCC Tx Power With Out CA	Tx Power With DL-CA Active
LTE Band	BW (MHz)	Uplink Channel	RB Size	RB Offset	LTE Band	BW (MHz)	Downlink Channel		
41	20	41490	1	50	41	20	41292	22.79	22.75
25	10	26365	1	0	25	10	8640	23.46	23.41

Note:

1. The LTE-CA for this device is supported to downlink only, and there is no uplink carrier aggregation.
2. The PCC Tx power is measured with SCC downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active, uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive.
3. This device does not support all LTE-CA configurations. The LTE-CA power was measured for those combinations supported by this device.

<WLAN 2.4G>

Mode	802.11b		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power	21.39	**21.57**	21.16

<WLAN 5.3G>

Mode	802.11a			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power	17.78	17.64	**18.19**	15.71

<WLAN 5.6G>

Mode	802.11a			
Channel / Frequency (MHz)	100 (5500)	116 (5580)	132 (5660)	140 (5700)
Average Power	13.39	**17.92**	17.83	13.76

<WLAN 5.8G>

Mode	802.11a		
Channel / Frequency (MHz)	149 (5745)	157 (5785)	165 (5825)
Average Power	11.79	**18.46**	15.57

<Bluetooth>

Mode	Bluetooth		
Channel / Frequency (MHz)	0 (2402)	39 (2441)	78 (2480)
Average Power	7.58	**8.25**	5.03

4.7 SAR Testing Results

4.7.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

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

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

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

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

<KDB 941225 D01, 3G SAR Measurement Procedures>

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

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

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

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

(2) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

(3) Higher order modulations

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

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is > 1/2 dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

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

(1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is <= 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is <= 0.8 W/kg or all test positions are measured.

(2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is <= 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is <= 1.2 W/kg.

(3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is <= 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is <= 1.2 W/kg.

4.7.2 SAR Results for Head Exposure Condition

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
01	GSM850	GPRS12	Right Cheek	251	27.9	26.25	1.46	0.05	0.301	**0.44**
	GSM850	GPRS12	Right Tilted	251	27.9	26.25	1.46	0.05	0.217	0.32
	GSM850	GPRS12	Left Cheek	251	27.9	26.25	1.46	0.14	0.289	0.42
	GSM850	GPRS12	Left Tilted	251	27.9	26.25	1.46	0.06	0.169	0.25
02	GSM1900	GPRS12	Right Cheek	661	25.4	23.87	1.42	0	0.234	**0.33**
	GSM1900	GPRS12	Right Tilted	661	25.4	23.87	1.42	0	0.087	0.12
	GSM1900	GPRS12	Left Cheek	661	25.4	23.87	1.42	0.17	0.224	0.32
	GSM1900	GPRS12	Left Tilted	661	25.4	23.87	1.42	0	0.072	0.10
	WCDMA II	RMC12.2K	Right Cheek	9538	24.7	23.69	1.26	0.11	0.418	0.53
	WCDMA II	RMC12.2K	Right Tilted	9538	24.7	23.69	1.26	-0.18	0.181	0.23
03	WCDMA II	RMC12.2K	Left Cheek	9538	24.7	23.69	1.26	0.17	0.498	**0.63**
	WCDMA II	RMC12.2K	Left Tilted	9538	24.7	23.69	1.26	-0.16	0.147	0.19
	WCDMA V	RMC12.2K	Right Cheek	4233	24.7	23.89	1.21	0.15	0.413	0.50
	WCDMA V	RMC12.2K	Right Tilted	4233	24.7	23.89	1.21	0.17	0.274	0.33
04	WCDMA V	RMC12.2K	Left Cheek	4233	24.7	23.89	1.21	0.15	0.416	**0.50**
	WCDMA V	RMC12.2K	Left Tilted	4233	24.7	23.89	1.21	0.11	0.224	0.27
	CDMA BC0	RC3+SO55	Right Cheek	777	25.4	24.63	1.19	0.15	0.481	0.57
	CDMA BC0	RC3+SO55	Right Tilted	777	25.4	24.63	1.19	0.13	0.307	0.37
05	CDMA BC0	RC3+SO55	Left Cheek	777	25.4	24.63	1.19	0.1	0.493	**0.59**
	CDMA BC0	RC3+SO55	Left Tilted	777	25.4	24.63	1.19	-0.15	0.277	0.33
06	CDMA BC1	RC3+SO55	Right Cheek	1175	25.4	24.70	1.17	0	0.597	**0.70**
	CDMA BC1	RC3+SO55	Right Tilted	1175	25.4	24.70	1.17	-0.11	0.222	0.26
	CDMA BC1	RC3+SO55	Left Cheek	1175	25.4	24.70	1.17	0.12	0.586	0.69
	CDMA BC1	RC3+SO55	Left Tilted	1175	25.4	24.70	1.17	0.13	0.197	0.23
	CDMA BC10	RC3+SO55	Right Cheek	684	25.4	24.47	1.24	-0.1	0.479	0.59
	CDMA BC10	RC3+SO55	Right Tilted	684	25.4	24.47	1.24	0.16	0.315	0.39
07	CDMA BC10	RC3+SO55	Left Cheek	684	25.4	24.47	1.24	0.11	0.481	**0.60**
	CDMA BC10	RC3+SO55	Left Tilted	684	25.4	24.47	1.24	0.15	0.284	0.35

Plot No.	Band	Mode	Test Position	Ch.	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	Right Cheek	18900	1	0	24.9	23.81	1.29	0.10	0.640	0.82
	LTE 2	QPSK20M	Right Cheek	18700	1	0	24.9	23.71	1.32	-0.09	0.620	0.82
	LTE 2	QPSK20M	Right Cheek	19100	1	0	24.9	23.77	1.30	0.08	0.551	0.71
	LTE 2	QPSK20M	Right Cheek	18900	50	0	23.9	22.82	1.28	0.04	0.465	0.60
	LTE 2	QPSK20M	Right Cheek	18900	100	0	23.9	22.76	1.30	0.01	0.461	0.60
	LTE 2	QPSK20M	Right Tilted	18900	1	0	24.9	23.81	1.29	-0.01	0.241	0.31
	LTE 2	QPSK20M	Right Tilted	18900	50	0	23.9	22.82	1.28	-0.01	0.184	0.24
08	LTE 2	QPSK20M	Left Cheek	18900	1	0	24.9	23.81	1.29	-0.14	0.697	**0.90**
	LTE 2	QPSK20M	Left Cheek	18700	1	0	24.9	23.71	1.32	0.06	0.680	0.89
	LTE 2	QPSK20M	Left Cheek	19100	1	0	24.9	23.77	1.30	0.11	0.599	0.78
	LTE 2	QPSK20M	Left Cheek	18900	50	0	23.9	22.82	1.28	-0.05	0.519	0.67
	LTE 2	QPSK20M	Left Cheek	18900	100	0	23.9	22.76	1.30	-0.14	0.503	0.65
	LTE 2	QPSK20M	Left Tilted	18900	1	0	24.9	23.81	1.29	0.16	0.19	0.24
	LTE 2	QPSK20M	Left Tilted	18900	50	0	23.9	22.82	1.28	0.04	0.157	0.20

Plot No.	Band	Mode	Test Position	Ch.	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	Right Cheek	20175	1	0	25.0	24.35	1.16	-0.14	0.696	0.81
	LTE 4	QPSK20M	Right Cheek	20050	1	0	25.0	24.22	1.20	-0.1	0.745	0.89
	LTE 4	QPSK20M	Right Cheek	20300	1	0	25.0	24.28	1.18	0.04	0.708	0.84
	LTE 4	QPSK20M	Right Cheek	20175	50	0	24.0	23.29	1.18	-0.11	0.549	0.65
	LTE 4	QPSK20M	Right Cheek	20175	100	0	24.0	23.22	1.20	0.04	0.56	0.67
	LTE 4	QPSK20M	Right Tilted	20175	1	0	25.0	24.35	1.16	0.05	0.243	0.28
	LTE 4	QPSK20M	Right Tilted	20175	50	0	24.0	23.29	1.18	0.01	0.183	0.22
	LTE 4	QPSK20M	Left Cheek	20175	1	0	25.0	24.35	1.16	0.02	0.805	0.93
	LTE 4	QPSK20M	Left Cheek	20050	1	0	25.0	24.22	1.20	0.04	0.786	0.94
09	LTE 4	QPSK20M	Left Cheek	20300	1	0	25.0	24.28	1.18	0.08	0.84	**0.99**
	LTE 4	QPSK20M	Left Cheek	20300	1	0	25.0	24.28	1.18	0.02	0.832	0.98
	LTE 4	QPSK20M	Left Cheek	20175	50	0	24.0	23.29	1.18	0.07	0.633	0.75
	LTE 4	QPSK20M	Left Cheek	20175	100	0	24.0	23.22	1.20	-0.13	0.611	0.73
	LTE 4	QPSK20M	Left Tilted	20175	1	0	25.0	24.35	1.16	0.08	0.303	0.35
	LTE 4	QPSK20M	Left Tilted	20175	50	0	24.0	23.29	1.18	0.09	0.243	0.29
10	LTE 5	QPSK10M	Right Cheek	20525	1	0	24.7	23.95	1.19	0.01	0.425	**0.51**
	LTE 5	QPSK10M	Right Cheek	20525	25	0	23.7	22.76	1.24	0.09	0.226	0.28
	LTE 5	QPSK10M	Right Tilted	20525	1	0	24.7	23.95	1.19	0.05	0.199	0.24
	LTE 5	QPSK10M	Right Tilted	20525	25	0	23.7	22.76	1.24	-0.01	0.151	0.19
	LTE 5	QPSK10M	Left Cheek	20525	1	0	24.7	23.95	1.19	-0.09	0.401	0.48
	LTE 5	QPSK10M	Left Cheek	20525	25	0	23.7	22.76	1.24	0.16	0.314	0.39
	LTE 5	QPSK10M	Left Tilted	20525	1	0	24.7	23.95	1.19	0.03	0.213	0.25
	LTE 5	QPSK10M	Left Tilted	20525	25	0	23.7	22.76	1.24	0.11	0.16	0.20
11	LTE 12	QPSK10M	Right Cheek	23060	1	24	24.9	24.54	1.09	-0.03	0.248	**0.27**
	LTE 12	QPSK10M	Right Cheek	23060	25	0	23.9	23.57	1.08	0.05	0.112	0.12
	LTE 12	QPSK10M	Right Tilted	23060	1	24	24.9	24.54	1.09	-0.03	0.086	0.09
	LTE 12	QPSK10M	Right Tilted	23060	25	0	23.9	23.57	1.08	0.05	0.069	0.07
	LTE 12	QPSK10M	Left Cheek	23060	1	24	24.9	24.54	1.09	0.05	0.177	0.19
	LTE 12	QPSK10M	Left Cheek	23060	25	0	23.9	23.57	1.08	0.02	0.138	0.15
	LTE 12	QPSK10M	Left Tilted	23060	1	24	24.9	24.54	1.09	-0.01	0.112	0.12
	LTE 12	QPSK10M	Left Tilted	23060	25	0	23.9	23.57	1.08	0.07	0.086	0.09
	LTE 25	QPSK20M	Right Cheek	26365	1	0	24.6	23.66	1.24	0.14	0.601	0.75
	LTE 25	QPSK20M	Right Cheek	26365	50	50	23.6	22.59	1.26	0.18	0.463	0.58
	LTE 25	QPSK20M	Right Tilted	26365	1	0	24.6	23.66	1.24	0.03	0.236	0.29
	LTE 25	QPSK20M	Right Tilted	26365	50	50	23.6	22.59	1.26	0.06	0.177	0.22
12	LTE 25	QPSK20M	Left Cheek	26365	1	0	24.6	23.66	1.24	0.17	0.639	**0.79**
	LTE 25	QPSK20M	Left Cheek	26365	50	50	23.6	22.59	1.26	0.06	0.446	0.56
	LTE 25	QPSK20M	Left Tilted	26365	1	0	24.6	23.66	1.24	0.05	0.208	0.26
	LTE 25	QPSK20M	Left Tilted	26365	50	50	23.6	22.59	1.26	0.08	0.14	0.18
	LTE 26	QPSK15M	Right Cheek	26965	1	0	24.7	23.92	1.20	-0.02	0.29	0.35
	LTE 26	QPSK15M	Right Cheek	26965	36	0	23.7	22.91	1.20	0.15	0.229	0.27
	LTE 26	QPSK15M	Right Tilted	26965	1	0	24.7	23.92	1.20	0.08	0.191	0.23
	LTE 26	QPSK15M	Right Tilted	26965	36	0	23.7	22.91	1.20	-0.04	0.148	0.18
13	LTE 26	QPSK15M	Left Cheek	26965	1	0	24.7	23.92	1.20	0.15	0.398	**0.48**
	LTE 26	QPSK15M	Left Cheek	26965	36	0	23.7	22.91	1.20	0.01	0.324	0.39
	LTE 26	QPSK15M	Left Tilted	26965	1	0	24.7	23.92	1.20	-0.15	0.2	0.24
	LTE 26	QPSK15M	Left Tilted	26965	36	0	23.7	22.91	1.20	-0.12	0.162	0.19
	LTE 41	QPSK20M	Right Cheek	41490	1	50	24.7	23.50	1.32	0.06	0.278	0.37
	LTE 41	QPSK20M	Right Cheek	41490	50	25	23.7	22.59	1.29	-0.07	0.225	0.29
	LTE 41	QPSK20M	Right Tilted	41490	1	50	24.7	23.50	1.32	-0.06	0.175	0.23
	LTE 41	QPSK20M	Right Tilted	41490	50	25	23.7	22.59	1.29	0.00	0.147	0.19
	LTE 41	QPSK20M	Left Cheek	41490	1	50	24.2	23.50	1.17	0.03	0.593	0.70
	LTE 41	QPSK20M	Left Cheek	39750	1	50	23.9	22.46	1.39	-0.01	0.332	0.46
	LTE 41	QPSK20M	Left Cheek	40185	1	50	24.2	22.64	1.43	-0.06	0.505	0.72
14	LTE 41	QPSK20M	Left Cheek	40620	1	50	24.2	23.01	1.32	0.02	0.649	**0.85**
	LTE 41	QPSK20M	Left Cheek	41055	1	50	24.2	22.95	1.33	-0.09	0.575	0.77
	LTE 41	QPSK20M	Left Cheek	41490	50	25	23.7	22.59	1.29	-0.13	0.476	0.61
	LTE 41	QPSK20M	Left Cheek	41490	100	0	23.7	22.54	1.31	-0.02	0.474	0.62
	LTE 41	QPSK20M	Left Tilted	41490	1	50	24.7	23.50	1.32	0.07	0.111	0.15
	LTE 41	QPSK20M	Left Tilted	41490	50	25	23.7	22.59	1.29	0.01	0.084	0.11

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
15	2.4G WLAN	802.11b	Right Cheek	6	22.5	21.57	1.24	0.16	0.147	**0.18**
	2.4G WLAN	802.11b	Right Tilted	6	22.5	21.57	1.24	-0.08	0.131	0.16
	2.4G WLAN	802.11b	Left Cheek	6	22.5	21.57	1.24	0.17	0.073	0.09
	2.4G WLAN	802.11b	Left Tilted	6	22.5	21.57	1.24	0.01	0.048	0.06
16	5.3G WLAN	802.11a	Right Cheek	60	19.5	18.19	1.35	-0.14	0.162	**0.22**
	5.3G WLAN	802.11a	Right Tilted	60	19.5	18.19	1.35	-0.11	0.085	0.11
	5.3G WLAN	802.11a	Left Cheek	60	19.5	18.19	1.35	-0.15	0.084	0.11
	5.3G WLAN	802.11a	Left Tilted	60	19.5	18.19	1.35	0.16	0.032	0.04
17	5.6G WLAN	802.11a	Right Cheek	116	19.5	17.92	1.44	0.19	0.245	**0.35**
	5.6G WLAN	802.11a	Right Tilted	116	19.5	17.92	1.44	-0.16	0.135	0.19
	5.6G WLAN	802.11a	Left Cheek	116	19.5	17.92	1.44	0.02	0.177	0.25
	5.6G WLAN	802.11a	Left Tilted	116	19.5	17.92	1.44	-0.14	0.046	0.07
18	5.8G WLAN	802.11a	Right Cheek	157	19.5	18.46	1.27	0.18	0.257	**0.33**
	5.8G WLAN	802.11a	Right Tilted	157	19.5	18.46	1.27	0.11	0.156	0.20
	5.8G WLAN	802.11a	Left Cheek	157	19.5	18.46	1.27	0.15	0.146	0.19
	5.8G WLAN	802.11a	Left Tilted	157	19.5	18.46	1.27	-0.12	0.106	0.13

4.7.3 SAR Results for Body-worn Exposure Condition (Separation Distance is 1.5 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
19	GSM850	GPRS12	Front Face	251	27.9	26.25	1.46	0.02	0.299	**0.44**
	GSM850	GPRS12	Rear Face	251	27.9	26.25	1.46	0.07	0.263	0.38
20	GSM1900	GPRS12	Front Face	661	25.4	23.87	1.42	-0.04	0.259	**0.37**
	GSM1900	GPRS12	Rear Face	661	25.4	23.87	1.42	0.15	0.241	0.34
21	WCDMA II	RMC12.2K	Front Face	9538	24.7	23.69	1.26	-0.07	0.523	**0.66**
	WCDMA II	RMC12.2K	Rear Face	9538	24.7	23.69	1.26	-0.12	0.446	0.56
22	WCDMA V	RMC12.2K	Front Face	4233	24.7	23.89	1.21	-0.09	0.38	**0.46**
	WCDMA V	RMC12.2K	Rear Face	4233	24.7	23.89	1.21	-0.02	0.374	0.45
	CDMA BC0	RTAP 153.6	Front Face	777	25.4	24.36	1.27	0.01	0.405	0.51
23	CDMA BC0	RTAP 153.6	Rear Face	777	25.4	24.36	1.27	-0.05	0.426	**0.54**
24	CDMA BC1	RTAP 153.6	Front Face	1175	25.4	24.61	1.20	0.08	0.64	**0.77**
	CDMA BC1	RTAP 153.6	Rear Face	1175	25.4	24.61	1.20	-0.03	0.542	0.65
25	CDMA BC10	RTAP 153.6	Front Face	684	25.4	24.22	1.31	-0.11	0.433	**0.57**
	CDMA BC10	RTAP 153.6	Rear Face	684	25.4	24.22	1.31	-0.05	0.418	0.55

Plot No.	Band	Mode	Test Position	Ch.	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)
26	LTE 2	QPSK20M	Front Face	18900	1	0	24.9	23.81	1.29	0.06	0.571	**0.73**
	LTE 2	QPSK20M	Front Face	18900	50	0	23.9	22.82	1.28	0.04	0.464	0.60
	LTE 2	QPSK20M	Rear Face	18900	1	0	24.9	23.81	1.29	-0.06	0.506	0.65
	LTE 2	QPSK20M	Rear Face	18900	50	0	23.9	22.82	1.28	0.05	0.42	0.54
	LTE 4	QPSK20M	Front Face	20175	1	0	25.0	24.35	1.16	-0.03	0.677	0.79
	LTE 4	QPSK20M	Front Face	20050	1	0	25.0	24.22	1.20	-0.17	0.674	0.81
27	LTE 4	QPSK20M	Front Face	20300	1	0	25.0	24.28	1.18	-0.01	0.76	**0.90**
	LTE 4	QPSK20M	Front Face	20175	50	0	24.0	23.29	1.18	-0.17	0.518	0.61
	LTE 4	QPSK20M	Rear Face	20175	1	0	25.0	24.35	1.16	0.02	0.51	0.59
	LTE 4	QPSK20M	Rear Face	20050	1	0	25.0	24.22	1.20	-0.05	0.616	0.74
	LTE 4	QPSK20M	Rear Face	20300	1	0	25.0	24.28	1.18	-0.12	0.618	0.73
	LTE 4	QPSK20M	Rear Face	20175	50	0	24.0	23.29	1.18	-0.07	0.475	0.56
28	LTE 5	QPSK10M	Front Face	20525	1	0	24.7	23.95	1.19	-0.09	0.348	**0.41**
	LTE 5	QPSK10M	Front Face	20525	25	0	23.7	22.76	1.24	0.16	0.268	0.33
	LTE 5	QPSK10M	Rear Face	20525	1	0	24.7	23.95	1.19	-0.08	0.347	0.41
	LTE 5	QPSK10M	Rear Face	20525	25	0	23.7	22.76	1.24	-0.02	0.266	0.33
	LTE 12	QPSK10M	Front Face	23060	1	24	24.9	24.54	1.09	0.1	0.264	0.29
	LTE 12	QPSK10M	Front Face	23060	25	0	23.9	23.57	1.08	0.1	0.206	0.22
29	LTE 12	QPSK10M	Rear Face	23060	1	24	24.9	24.54	1.09	-0.18	0.329	**0.36**
	LTE 12	QPSK10M	Rear Face	23060	25	0	23.9	23.57	1.08	-0.13	0.258	0.28
	LTE 25	QPSK20M	Front Face	26365	1	0	24.6	23.66	1.24	-0.14	0.447	0.56
	LTE 25	QPSK20M	Front Face	26365	50	50	23.6	22.59	1.26	-0.03	0.349	0.44
30	LTE 25	QPSK20M	Rear Face	26365	1	0	24.6	23.66	1.24	-0.06	0.513	**0.64**
	LTE 25	QPSK20M	Rear Face	26365	50	50	23.6	22.59	1.26	-0.01	0.4	0.50
31	LTE 26	QPSK15M	Front Face	26965	1	0	24.7	23.92	1.20	0.04	0.35	**0.42**
	LTE 26	QPSK15M	Front Face	26965	36	0	23.7	22.91	1.20	-0.1	0.27	0.32
	LTE 26	QPSK15M	Rear Face	26965	1	0	24.7	23.92	1.20	-0.07	0.319	0.38
	LTE 26	QPSK15M	Rear Face	26965	36	0	23.7	22.91	1.20	-0.07	0.249	0.30
	LTE 41	QPSK20M	Front Face	41490	1	50	24.7	23.50	1.32	0.03	0.264	0.35
	LTE 41	QPSK20M	Front Face	41490	50	25	23.7	22.59	1.29	0.05	0.215	0.28
32	LTE 41	QPSK20M	Rear Face	41490	1	50	24.7	23.50	1.32	-0.02	0.412	**0.54**
	LTE 41	QPSK20M	Rear Face	41490	50	25	23.7	22.59	1.29	0.04	0.321	0.41

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	2.4G WLAN	802.11b	Front Face	6	22.5	21.57	1.24	0.09	0.035	0.04
33	2.4G WLAN	802.11b	Rear Face	6	22.5	21.57	1.24	0.07	0.238	**0.29**
	5.3G WLAN	802.11a	Front Face	60	19.5	18.19	1.35	0.04	0.028	0.04
34	5.3G WLAN	802.11a	Rear Face	60	19.5	18.19	1.35	0.02	0.308	**0.42**
	5.6G WLAN	802.11a	Front Face	116	19.5	17.92	1.44	0.07	0.000251	0.00
	5.6G WLAN	802.11a	Rear Face	116	19.5	17.92	1.44	0.03	0.574	0.83
35	5.6G WLAN	802.11a	Rear Face	132	19.5	17.83	1.47	-0.06	0.674	**0.99**
	5.8G WLAN	802.11a	Front Face	157	19.5	18.46	1.27	0.02	0.032	0.04
36	5.8G WLAN	802.11a	Rear Face	157	19.5	18.46	1.27	-0.12	0.603	**0.77**

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	Bluetooth	-	Front Face	39	9.7	8.25	1.40	0	0.00	0.00
	Bluetooth	-	Rear Face	39	9.7	8.25	1.40	0	0.00	0.00

4.7.4 SAR Results for Hotspot Exposure Condition (Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
37	GSM850	GPRS12	Front Face	251	27.9	26.25	1.46	0.02	0.303	**0.44**
	GSM850	GPRS12	Rear Face	251	27.9	26.25	1.46	-0.05	0.269	0.39
	GSM850	GPRS12	Left Side	251	27.9	26.25	1.46	-0.12	0.281	0.41
	GSM850	GPRS12	Right Side	251	27.9	26.25	1.46	-0.01	0.229	0.33
	GSM850	GPRS12	Bottom Side	251	27.9	26.25	1.46	0.09	0.178	0.26
38	GSM1900	GPRS12	Front Face	661	25.4	23.87	1.42	-0.07	0.455	**0.65**
	GSM1900	GPRS12	Rear Face	661	25.4	23.87	1.42	0.08	0.42	0.60
	GSM1900	GPRS12	Left Side	661	25.4	23.87	1.42	0.03	0.295	0.42
	GSM1900	GPRS12	Right Side	661	25.4	23.87	1.42	0.03	0.13	0.18
	GSM1900	GPRS12	Bottom Side	661	25.4	23.87	1.42	0.07	0.145	0.21
	WCDMA II	RMC12.2K	Front Face	9538	24.7	23.69	1.26	-0.05	1.06	1.34
39	WCDMA II	RMC12.2K	Front Face	9262	24.7	23.63	1.28	-0.04	1.15	**1.47**
	WCDMA II	RMC12.2K	Front Face	9262	24.7	23.63	1.28	-0.04	1.09	1.39
	WCDMA II	RMC12.2K	Front Face	9400	24.7	23.61	1.29	0.08	0.919	1.18
	WCDMA II	HSDPA Subtest-1	Front Face	9538	24.0	22.73	1.34	0.01	0.85	1.14
	WCDMA II	HSDPA Subtest-1	Front Face	9262	24.0	22.67	1.36	0.03	0.94	1.28
	WCDMA II	HSDPA Subtest-1	Front Face	9400	24.0	22.65	1.36	-0.02	0.92	1.26
	WCDMA II	HSUPA Subtest-1	Front Face	9538	24.0	22.87	1.30	0.05	0.85	1.10
	WCDMA II	HSUPA Subtest-1	Front Face	9262	24.0	22.81	1.32	0.07	0.96	1.26
	WCDMA II	HSUPA Subtest-1	Front Face	9400	24.0	22.79	1.32	0.11	0.92	1.22
	WCDMA II	RMC12.2K	Rear Face	9538	24.7	23.69	1.26	-0.07	1.01	1.27
	WCDMA II	RMC12.2K	Rear Face	9262	24.7	23.63	1.28	-0.07	0.957	1.22
	WCDMA II	RMC12.2K	Rear Face	9400	24.7	23.61	1.29	-0.11	0.947	1.22
	WCDMA II	HSDPA Subtest-1	Rear Face	9538	24.0	22.73	1.34	0.02	0.867	1.16
	WCDMA II	HSDPA Subtest-1	Rear Face	9262	24.0	22.67	1.36	-0.06	0.844	1.15
	WCDMA II	HSDPA Subtest-1	Rear Face	9400	24.0	22.65	1.36	0.04	0.836	1.14
	WCDMA II	HSUPA Subtest-1	Rear Face	9538	24.0	22.87	1.30	0.16	0.858	1.11
	WCDMA II	HSUPA Subtest-1	Rear Face	9262	24.0	22.81	1.32	-0.03	0.841	1.11
	WCDMA II	HSUPA Subtest-1	Rear Face	9400	24.0	22.79	1.32	0.02	0.835	1.10
	WCDMA II	RMC12.2K	Left Side	9538	24.7	23.69	1.26	-0.14	1.08	1.36
	WCDMA II	RMC12.2K	Left Side	9262	24.7	23.63	1.28	0.07	1.03	1.32
	WCDMA II	RMC12.2K	Left Side	9400	24.7	23.61	1.29	0.04	0.998	1.28
	WCDMA II	HSDPA Subtest-1	Left Side	9538	24.0	22.73	1.34	-0.01	0.884	1.18
	WCDMA II	HSDPA Subtest-1	Left Side	9262	24.0	22.67	1.36	0.03	0.865	1.17
	WCDMA II	HSDPA Subtest-1	Left Side	9400	24.0	22.65	1.36	0.04	0.843	1.15
	WCDMA II	HSUPA Subtest-1	Left Side	9538	24.0	22.87	1.30	0.09	0.879	1.14
	WCDMA II	HSUPA Subtest-1	Left Side	9262	24.0	22.81	1.32	-0.04	0.851	1.12
	WCDMA II	HSUPA Subtest-1	Left Side	9400	24.0	22.79	1.32	0.05	0.843	1.11
	WCDMA II	RMC12.2K	Right Side	9538	24.7	23.69	1.26	0.08	0.395	0.50
	WCDMA II	RMC12.2K	Bottom Side	9538	24.7	23.69	1.26	0.14	0.047	0.06
	WCDMA V	RMC12.2K	Front Face	4233	24.7	23.89	1.21	0.04	0.413	0.50
40	WCDMA V	RMC12.2K	Rear Face	4233	24.7	23.89	1.21	-0.06	0.496	**0.60**
	WCDMA V	RMC12.2K	Left Side	4233	24.7	23.89	1.21	0.02	0.347	0.42
	WCDMA V	RMC12.2K	Right Side	4233	24.7	23.89	1.21	-0.08	0.269	0.32
	WCDMA V	RMC12.2K	Bottom Side	4233	24.7	23.89	1.21	0.07	0.271	0.33
	CDMA BC0	RTAP 153.6	Front Face	777	25.4	24.36	1.27	-0.04	0.507	0.64
41	CDMA BC0	RTAP 153.6	Rear Face	777	25.4	24.36	1.27	-0.13	0.558	**0.71**
	CDMA BC0	RTAP 153.6	Left Side	777	25.4	24.36	1.27	-0.06	0.435	0.55
	CDMA BC0	RTAP 153.6	Right Side	777	25.4	24.36	1.27	-0.02	0.343	0.44
	CDMA BC0	RTAP 153.6	Bottom Side	777	25.4	24.36	1.27	-0.07	0.355	0.45

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	CDMA BC1	RTAP 153.6	Front Face	1175	25.4	24.61	1.20	-0.1	1.11	1.33
	CDMA BC1	RTAP 153.6	Front Face	25	25.4	24.52	1.22	0.1	1.14	1.40
	CDMA BC1	RTAP 153.6	Front Face	25	25.4	24.52	1.22	0.1	1.10	1.35
42	CDMA BC1	RTAP 153.6	Front Face	600	25.4	24.34	1.28	-0.15	1.12	**1.43**
	CDMA BC1	RETAP 4096	Front Face	1175	25.4	24.56	1.21	0.08	1.03	1.25
	CDMA BC1	RETAP 4096	Front Face	25	25.4	24.43	1.25	0.12	1.06	1.33
	CDMA BC1	RETAP 4096	Front Face	600	25.4	24.24	1.31	0.02	1.01	1.32
	CDMA BC1	RTAP 153.6	Rear Face	1175	25.4	24.61	1.20	-0.06	0.893	1.07
	CDMA BC1	RTAP 153.6	Rear Face	25	25.4	24.52	1.22	-0.11	0.955	1.17
	CDMA BC1	RTAP 153.6	Rear Face	600	25.4	24.34	1.28	-0.12	0.922	1.18
	CDMA BC1	RTAP 153.6	Left Side	1175	25.4	24.61	1.20	-0.1	0.861	1.03
	CDMA BC1	RTAP 153.6	Left Side	25	25.4	24.52	1.22	-0.11	0.83	1.02
	CDMA BC1	RTAP 153.6	Left Side	600	25.4	24.34	1.28	-0.12	0.835	1.07
	CDMA BC1	RTAP 153.6	Right Side	1175	25.4	24.61	1.20	-0.11	0.424	0.51
	CDMA BC1	RTAP 153.6	Bottom Side	1175	25.4	24.61	1.20	0.12	0.278	0.33
	CDMA BC10	RTAP 153.6	Front Face	684	25.4	24.22	1.31	-0.06	0.494	0.65
43	CDMA BC10	RTAP 153.6	Rear Face	684	25.4	24.22	1.31	-0.11	0.542	**0.71**
	CDMA BC10	RTAP 153.6	Left Side	684	25.4	24.22	1.31	-0.07	0.407	0.53
	CDMA BC10	RTAP 153.6	Right Side	684	25.4	24.22	1.31	0.05	0.409	0.54
	CDMA BC10	RTAP 153.6	Bottom Side	684	25.4	24.22	1.31	-0.16	0.316	0.41

Plot No.	Band	Mode	Test Position	Ch.	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	18900	1	0	24.9	23.81	1.29	-0.09	0.988	1.27
44	LTE 2	QPSK20M	Front Face	18700	1	0	24.9	23.71	1.32	-0.15	1.04	**1.37**
	LTE 2	QPSK20M	Front Face	18700	1	0	24.9	23.71	1.32	-0.16	1.02	1.34
	LTE 2	QPSK20M	Front Face	19100	1	0	24.9	23.77	1.30	-0.13	0.954	1.24
	LTE 2	QPSK20M	Front Face	18900	50	0	23.9	22.82	1.28	-0.11	0.811	1.04
	LTE 2	QPSK20M	Front Face	18700	50	0	23.9	22.72	1.31	-0.11	0.794	1.04
	LTE 2	QPSK20M	Front Face	19100	50	0	23.9	22.78	1.29	-0.12	0.745	0.96
	LTE 2	QPSK20M	Front Face	18900	100	0	23.9	22.76	1.30	-0.13	0.774	1.01
	LTE 2	QPSK20M	Rear Face	18900	1	0	24.9	23.81	1.29	0.11	0.855	1.10
	LTE 2	QPSK20M	Rear Face	18700	1	0	24.9	23.71	1.32	-0.07	0.896	1.18
	LTE 2	QPSK20M	Rear Face	19100	1	0	24.9	23.77	1.30	-0.11	0.815	1.06
	LTE 2	QPSK20M	Rear Face	18900	50	0	23.9	22.82	1.28	-0.06	0.696	0.89
	LTE 2	QPSK20M	Rear Face	18700	50	0	23.9	22.72	1.31	0.18	0.689	0.90
	LTE 2	QPSK20M	Rear Face	19100	50	0	23.9	22.78	1.29	0.1	0.641	0.83
	LTE 2	QPSK20M	Rear Face	18900	100	0	23.9	22.76	1.30	-0.03	0.67	0.87
	LTE 2	QPSK20M	Left Side	18900	1	0	24.9	23.81	1.29	-0.02	0.741	0.95
	LTE 2	QPSK20M	Left Side	18700	1	0	24.9	23.71	1.32	-0.12	0.749	0.99
	LTE 2	QPSK20M	Left Side	19100	1	0	24.9	23.77	1.30	-0.03	0.713	0.92
	LTE 2	QPSK20M	Left Side	18900	50	0	23.9	22.82	1.28	-0.09	0.588	0.75
	LTE 2	QPSK20M	Left Side	18900	100	0	23.9	22.76	1.30	-0.08	0.572	0.74
	LTE 2	QPSK20M	Right Side	18900	1	0	24.9	23.81	1.29	0.17	0.373	0.48
	LTE 2	QPSK20M	Right Side	18900	50	0	23.9	22.82	1.28	-0.12	0.308	0.39
	LTE 2	QPSK20M	Bottom Side	18900	1	0	24.9	23.81	1.29	0.06	0.259	0.33
	LTE 2	QPSK20M	Bottom Side	18900	50	0	23.9	22.82	1.28	0.09	0.206	0.26

Plot No.	Band	Mode	Test Position	Ch.	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	20175	1	0	25.0	24.35	1.16	-0.01	1.07	1.24
	LTE 4	QPSK20M	Front Face	20175	1	0	25.0	24.35	1.16	0.06	1.06	1.23
45	LTE 4	QPSK20M	Front Face	20050	1	0	25.0	24.22	1.20	-0.08	1.05	**1.26**
	LTE 4	QPSK20M	Front Face	20300	1	0	25.0	24.28	1.18	0.03	1.03	1.22
	LTE 4	QPSK20M	Front Face	20175	50	0	24.0	23.29	1.18	0.15	0.773	0.91
	LTE 4	QPSK20M	Front Face	20050	50	0	24.0	23.16	1.21	-0.01	0.798	0.97
	LTE 4	QPSK20M	Front Face	20300	50	0	24.0	23.22	1.20	-0.03	0.764	0.91
	LTE 4	QPSK20M	Front Face	20175	100	0	24.0	23.22	1.20	-0.03	0.782	0.94
	LTE 4	QPSK20M	Rear Face	20175	1	0	25.0	24.35	1.16	-0.16	0.866	1.01
	LTE 4	QPSK20M	Rear Face	20050	1	0	25.0	24.22	1.20	-0.18	0.877	1.05
	LTE 4	QPSK20M	Rear Face	20300	1	0	25.0	24.28	1.18	-0.06	0.957	1.13
	LTE 4	QPSK20M	Rear Face	20175	50	0	24.0	23.29	1.18	-0.07	0.642	0.76
	LTE 4	QPSK20M	Rear Face	20050	50	0	24.0	23.16	1.21	-0.14	0.684	0.83
	LTE 4	QPSK20M	Rear Face	20300	50	0	24.0	23.22	1.20	0.04	0.633	0.76
	LTE 4	QPSK20M	Rear Face	20175	100	0	24.0	23.22	1.20	-0.04	0.641	0.77
	LTE 4	QPSK20M	Left Side	20175	1	0	25.0	24.35	1.16	-0.01	0.928	1.08
	LTE 4	QPSK20M	Left Side	20050	1	0	25.0	24.22	1.20	-0.04	0.908	1.09
	LTE 4	QPSK20M	Left Side	20300	1	0	25.0	24.28	1.18	-0.02	0.843	1.00
	LTE 4	QPSK20M	Left Side	20175	50	0	24.0	23.29	1.18	-0.14	0.708	0.83
	LTE 4	QPSK20M	Left Side	20050	50	0	24.0	23.16	1.21	0.10	0.694	0.84
	LTE 4	QPSK20M	Left Side	20300	50	0	24.0	23.22	1.20	0.06	0.691	0.83
	LTE 4	QPSK20M	Left Side	20175	100	0	24.0	23.22	1.20	-0.05	0.688	0.82
	LTE 4	QPSK20M	Right Side	20175	1	0	25.0	24.35	1.16	0.17	0.302	0.35
	LTE 4	QPSK20M	Right Side	20175	50	0	24.0	23.29	1.18	0.08	0.261	0.31
	LTE 4	QPSK20M	Bottom Side	20175	1	0	25.0	24.35	1.16	0.07	0.419	0.49
	LTE 4	QPSK20M	Bottom Side	20175	50	0	24.0	23.29	1.18	-0.01	0.322	0.38
	LTE 5	QPSK10M	Front Face	20525	1	0	24.7	23.95	1.19	0.02	0.377	0.45
	LTE 5	QPSK10M	Front Face	20525	25	0	23.7	22.76	1.24	-0.05	0.31	0.38
46	LTE 5	QPSK10M	Rear Face	20525	1	0	24.7	23.95	1.19	-0.18	0.427	**0.51**
	LTE 5	QPSK10M	Rear Face	20525	25	0	23.7	22.76	1.24	-0.04	0.353	0.44
	LTE 5	QPSK10M	Left Side	20525	1	0	24.7	23.95	1.19	-0.07	0.338	0.40
	LTE 5	QPSK10M	Left Side	20525	25	0	23.7	22.76	1.24	-0.08	0.249	0.31
	LTE 5	QPSK10M	Right Side	20525	1	0	24.7	23.95	1.19	-0.03	0.302	0.36
	LTE 5	QPSK10M	Right Side	20525	25	0	23.7	22.76	1.24	-0.04	0.211	0.26
	LTE 5	QPSK10M	Bottom Side	20525	1	0	24.7	23.95	1.19	-0.07	0.283	0.34
	LTE 5	QPSK10M	Bottom Side	20525	25	0	23.7	22.76	1.24	0.09	0.23	0.29
	LTE 12	QPSK10M	Front Face	23060	1	24	24.9	24.54	1.09	0.08	0.316	0.34
	LTE 12	QPSK10M	Front Face	23060	25	0	23.9	23.57	1.08	0.03	0.246	0.27
47	LTE 12	QPSK10M	Rear Face	23060	1	24	24.9	24.54	1.09	-0.06	0.432	**0.47**
	LTE 12	QPSK10M	Rear Face	23060	25	0	23.9	23.57	1.08	0.08	0.328	0.35
	LTE 12	QPSK10M	Left Side	23060	1	24	24.9	24.54	1.09	0.07	0.187	0.20
	LTE 12	QPSK10M	Left Side	23060	25	0	23.9	23.57	1.08	-0.03	0.137	0.15
	LTE 12	QPSK10M	Right Side	23060	1	24	24.9	24.54	1.09	-0.13	0.395	0.43
	LTE 12	QPSK10M	Right Side	23060	25	0	23.9	23.57	1.08	0.09	0.307	0.33
	LTE 12	QPSK10M	Bottom Side	23060	1	24	24.9	24.54	1.09	-0.1	0.075	0.08
	LTE 12	QPSK10M	Bottom Side	23060	25	0	23.9	23.57	1.08	0.07	0.059	0.06

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 25	QPSK20M	Front Face	26365	1	0	24.6	23.66	1.24	-0.16	0.938	1.16
	LTE 25	QPSK20M	Front Face	26140	1	0	24.6	23.51	1.29	-0.01	0.913	1.17
48	LTE 25	QPSK20M	Front Face	26590	1	0	24.4	23.61	1.20	-0.07	0.974	**1.17**
	LTE 25	QPSK20M	Front Face	26590	1	0	24.4	23.61	1.20	-0.07	0.969	1.16
	LTE 25	QPSK20M	Front Face	26365	50	50	23.6	22.59	1.26	-0.08	0.735	0.93
	LTE 25	QPSK20M	Front Face	26140	50	50	23.6	22.44	1.31	-0.04	0.729	0.95
	LTE 25	QPSK20M	Front Face	26590	50	50	23.4	22.54	1.22	-0.01	0.704	0.86
	LTE 25	QPSK20M	Front Face	26365	100	0	23.6	22.58	1.26	0.13	0.755	0.95
	LTE 25	QPSK20M	Rear Face	26365	1	0	24.6	23.66	1.24	0.04	0.698	0.87
	LTE 25	QPSK20M	Rear Face	26140	1	0	24.6	23.51	1.29	0	0.82	1.05
	LTE 25	QPSK20M	Rear Face	26590	1	0	24.4	23.61	1.20	-0.13	0.77	0.92
	LTE 25	QPSK20M	Rear Face	26365	50	50	23.6	22.59	1.26	0.01	0.594	0.75
	LTE 25	QPSK20M	Rear Face	26365	100	0	23.6	22.58	1.26	0.1	0.614	0.78
	LTE 25	QPSK20M	Left Side	26365	1	0	24.6	23.66	1.24	-0.12	0.809	1.00
	LTE 25	QPSK20M	Left Side	26140	1	0	24.6	23.51	1.29	-0.11	0.715	0.92
	LTE 25	QPSK20M	Left Side	26590	1	0	24.4	23.61	1.20	-0.13	0.765	0.92
	LTE 25	QPSK20M	Left Side	26365	50	50	23.6	22.59	1.26	-0.03	0.633	0.80
	LTE 25	QPSK20M	Left Side	26140	50	50	23.6	22.44	1.31	-0.1	0.57	0.74
	LTE 25	QPSK20M	Left Side	26590	50	50	23.4	22.54	1.22	-0.18	0.518	0.63
	LTE 25	QPSK20M	Left Side	26365	100	0	23.6	22.58	1.26	-0.17	0.581	0.73
	LTE 25	QPSK20M	Right Side	26365	1	0	24.6	23.66	1.24	-0.12	0.335	0.42
	LTE 25	QPSK20M	Right Side	26365	50	50	23.6	22.59	1.26	0.13	0.248	0.31
	LTE 25	QPSK20M	Bottom Side	26365	1	0	24.6	23.66	1.24	-0.03	0.261	0.32
	LTE 25	QPSK20M	Bottom Side	26365	50	50	23.6	22.59	1.26	-0.16	0.188	0.24
	LTE 26	QPSK15M	Front Face	26965	1	0	24.7	23.92	1.20	-0.15	0.401	0.48
	LTE 26	QPSK15M	Front Face	26965	36	0	23.7	22.91	1.20	-0.1	0.315	0.38
49	LTE 26	QPSK15M	Rear Face	26965	1	0	24.7	23.92	1.20	-0.05	0.439	**0.53**
	LTE 26	QPSK15M	Rear Face	26965	36	0	23.7	22.91	1.20	0	0.359	0.43
	LTE 26	QPSK15M	Left Side	26965	1	0	24.7	23.92	1.20	-0.12	0.359	0.43
	LTE 26	QPSK15M	Left Side	26965	36	0	23.7	22.91	1.20	-0.1	0.247	0.30
	LTE 26	QPSK15M	Right Side	26965	1	0	24.7	23.92	1.20	-0.02	0.316	0.38
	LTE 26	QPSK15M	Right Side	26965	36	0	23.7	22.91	1.20	-0.02	0.234	0.28
	LTE 26	QPSK15M	Bottom Side	26965	1	0	24.7	23.92	1.20	0.07	0.254	0.30
	LTE 26	QPSK15M	Bottom Side	26965	36	0	23.7	22.91	1.20	-0.03	0.198	0.24
	LTE 41	QPSK20M	Front Face	41490	1	50	24.7	23.50	1.32	0.02	0.464	0.61
	LTE 41	QPSK20M	Front Face	41490	50	25	23.7	22.59	1.29	0.09	0.381	0.49
	LTE 41	QPSK20M	Rear Face	41490	1	50	24.7	23.50	1.32	-0.05	0.626	0.83
	LTE 41	QPSK20M	Rear Face	39750	1	50	23.9	22.46	1.39	0.06	0.467	0.65
	LTE 41	QPSK20M	Rear Face	40185	1	50	24.2	22.64	1.43	0.08	0.513	0.73
	LTE 41	QPSK20M	Rear Face	40620	1	50	24.2	23.01	1.32	0.03	0.549	0.72
	LTE 41	QPSK20M	Rear Face	41055	1	50	24.2	22.95	1.33	-0.02	0.632	0.84
	LTE 41	QPSK20M	Rear Face	41490	50	25	23.7	22.59	1.29	0.01	0.506	0.65
	LTE 41	QPSK20M	Rear Face	41490	100	0	23.7	22.54	1.31	-0.08	0.514	0.67
	LTE 41	QPSK20M	Left Side	41490	1	50	24.7	23.50	1.32	-0.05	0.786	1.04
	LTE 41	QPSK20M	Left Side	39750	1	50	23.9	22.46	1.39	0.04	0.735	1.02
	LTE 41	QPSK20M	Left Side	40185	1	50	24.2	22.64	1.43	-0.09	0.813	1.16
	LTE 41	QPSK20M	Left Side	40620	1	50	24.2	23.01	1.32	-0.06	0.807	1.06
50	LTE 41	QPSK20M	Left Side	41055	1	50	24.2	22.95	1.33	0.05	0.888	**1.18**
	LTE 41	QPSK20M	Left Side	41055	1	50	24.2	22.95	1.33	0.02	0.861	1.15
	LTE 41	QPSK20M	Left Side	41490	50	25	23.7	22.59	1.29	-0.04	0.661	0.85
	LTE 41	QPSK20M	Left Side	39750	50	25	22.9	21.59	1.35	-0.05	0.57	0.77
	LTE 41	QPSK20M	Left Side	40185	50	25	23.2	21.76	1.39	0.01	0.636	0.89
	LTE 41	QPSK20M	Left Side	40620	50	25	23.2	22.08	1.29	-0.03	0.657	0.85
	LTE 41	QPSK20M	Left Side	41055	50	25	23.2	22.03	1.31	0.02	0.66	0.86
	LTE 41	QPSK20M	Left Side	41490	100	0	23.7	22.54	1.31	0.06	0.642	0.84
	LTE 41	QPSK20M	Right Side	41490	1	50	24.7	23.50	1.32	0.02	0.012	0.02
	LTE 41	QPSK20M	Right Side	41490	50	25	23.7	22.59	1.29	0.01	0.00765	0.01
	LTE 41	QPSK20M	Bottom Side	41490	1	50	24.7	23.50	1.32	-0.03	0.132	0.17
	LTE 41	QPSK20M	Bottom Side	41490	50	25	23.7	22.59	1.29	-0.04	0.109	0.14

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	2.4G WLAN	802.11b	Front Face	6	22.5	21.57	1.24	0.04	0.057	0.07
51	2.4G WLAN	802.11b	Rear Face	6	22.5	21.57	1.24	0.09	0.471	**0.58**
	2.4G WLAN	802.11b	Left Side	6	22.5	21.57	1.24	-0.1	0.387	0.48
	2.4G WLAN	802.11b	Top Side	6	22.5	21.57	1.24	-0.05	0.126	0.16

4.7.5 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
LTE 4	QPSK20M	Left Cheek	20300	0.84	0.832	1.01	N/A	N/A	N/A	N/A
WCDMA II	RMC12.2K	Front Face	9262	1.15	1.09	1.06	N/A	N/A	N/A	N/A
CDMA BC1	RTAP 153.6	Front Face	25	1.14	1.10	1.04	N/A	N/A	N/A	N/A
LTE 2	QPSK20M	Front Face	18700	1.04	1.02	1.02	N/A	N/A	N/A	N/A
LTE 4	QPSK20M	Front Face	20175	1.07	1.06	1.01	N/A	N/A	N/A	N/A
LTE 25	QPSK20M	Front Face	26590	0.974	0.969	1.01	N/A	N/A	N/A	N/A
LTE 41	QPSK20M	Left Side	41055	0.888	0.861	1.03	N/A	N/A	N/A	N/A

<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 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
1	GSM850 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.44	0.18	-	0.62	Σ SAR < 1.6, Not required
			Right Tilted	0.32	0.16	-	0.48	Σ SAR < 1.6, Not required
			Left Cheek	0.42	0.09	-	0.51	Σ SAR < 1.6, Not required
			Left Tilted	0.25	0.06	-	0.31	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.44	0.04	0.00	0.48	Σ SAR < 1.6, Not required
			Rear Face	0.38	0.29	0.00	0.67	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.44	0.07	-	0.51	Σ SAR < 1.6, Not required
			Rear Face	0.39	0.58	-	0.97	Σ SAR < 1.6, Not required
			Left Side	0.41	0.48	-	0.89	Σ SAR < 1.6, Not required
			Right Side	0.33	0.00	-	0.33	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.26	0.00	-	0.26	Σ SAR < 1.6, Not required
2	GSM850 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.44	0.35	-	0.79	Σ SAR < 1.6, Not required
			Right Tilted	0.32	0.20	-	0.52	Σ SAR < 1.6, Not required
			Left Cheek	0.42	0.25	-	0.67	Σ SAR < 1.6, Not required
			Left Tilted	0.25	0.13	-	0.38	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.44	0.04	0.00	0.48	Σ SAR < 1.6, Not required
			Rear Face	0.38	0.99	0.00	1.37	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
3	GSM1900 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.33	0.18	-	0.51	Σ SAR < 1.6, Not required
			Right Tilted	0.12	0.16	-	0.28	Σ SAR < 1.6, Not required
			Left Cheek	0.32	0.09	-	0.41	Σ SAR < 1.6, Not required
			Left Tilted	0.10	0.06	-	0.16	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.37	0.04	0.00	0.41	Σ SAR < 1.6, Not required
			Rear Face	0.34	0.29	0.00	0.63	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.65	0.07	-	0.72	Σ SAR < 1.6, Not required
			Rear Face	0.60	0.58	-	1.18	Σ SAR < 1.6, Not required
			Left Side	0.42	0.48	-	0.9	Σ SAR < 1.6, Not required
			Right Side	0.18	0.00	-	0.18	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.21	0.00	-	0.21	Σ SAR < 1.6, Not required
4	GSM1900 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.33	0.35	-	0.68	Σ SAR < 1.6, Not required
			Right Tilted	0.12	0.20	-	0.32	Σ SAR < 1.6, Not required
			Left Cheek	0.32	0.25	-	0.57	Σ SAR < 1.6, Not required
			Left Tilted	0.10	0.13	-	0.23	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.37	0.04	0.00	0.41	Σ SAR < 1.6, Not required
			Rear Face	0.34	0.99	0.00	1.33	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
5	WCDMA II + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.53	0.18	-	0.71	Σ SAR < 1.6, Not required
			Right Tilted	0.23	0.16	-	0.39	Σ SAR < 1.6, Not required
			Left Cheek	0.63	0.09	-	0.72	Σ SAR < 1.6, Not required
			Left Tilted	0.19	0.06	-	0.25	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.66	0.04	0.00	0.7	Σ SAR < 1.6, Not required
			Rear Face	0.56	0.29	0.00	0.85	Σ SAR < 1.6, Not required
		Hotspot	Front Face	1.47	0.07	-	1.54	Σ SAR < 1.6, Not required
			Rear Face	1.27	0.58	-	1.85	**Analyzed as below**
			Left Side	1.36	0.48	-	1.84	**Analyzed as below**
			Right Side	0.50	0.00	-	0.5	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.06	0.00	-	0.06	Σ SAR < 1.6, Not required
6	WCDMA II + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.53	0.35	-	0.88	Σ SAR < 1.6, Not required
			Right Tilted	0.23	0.20	-	0.43	Σ SAR < 1.6, Not required
			Left Cheek	0.63	0.25	-	0.88	Σ SAR < 1.6, Not required
			Left Tilted	0.19	0.13	-	0.32	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.66	0.04	0.00	0.7	Σ SAR < 1.6, Not required
			Rear Face	0.56	0.99	0.00	1.55	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
7	WCDMA V + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.50	0.18	-	0.68	Σ SAR < 1.6, Not required
			Right Tilted	0.33	0.16	-	0.49	Σ SAR < 1.6, Not required
			Left Cheek	0.50	0.09	-	0.59	Σ SAR < 1.6, Not required
			Left Tilted	0.27	0.06	-	0.33	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.46	0.04	0.00	0.5	Σ SAR < 1.6, Not required
			Rear Face	0.45	0.29	0.00	0.74	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.50	0.07	-	0.57	Σ SAR < 1.6, Not required
			Rear Face	0.60	0.58	-	1.18	Σ SAR < 1.6, Not required
			Left Side	0.42	0.48	-	0.9	Σ SAR < 1.6, Not required
			Right Side	0.32	0.00	-	0.32	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.33	0.00	-	0.33	Σ SAR < 1.6, Not required
8	WCDMA V + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.50	0.35	-	0.85	Σ SAR < 1.6, Not required
			Right Tilted	0.33	0.20	-	0.53	Σ SAR < 1.6, Not required
			Left Cheek	0.50	0.25	-	0.75	Σ SAR < 1.6, Not required
			Left Tilted	0.27	0.13	-	0.4	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.46	0.04	0.00	0.5	Σ SAR < 1.6, Not required
			Rear Face	0.45	0.99	0.00	1.44	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
9	CDMA BC0 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.57	0.18	-	0.75	Σ SAR < 1.6, Not required
			Right Tilted	0.37	0.16	-	0.53	Σ SAR < 1.6, Not required
			Left Cheek	0.59	0.09	-	0.68	Σ SAR < 1.6, Not required
			Left Tilted	0.33	0.06	-	0.39	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.51	0.04	0.00	0.55	Σ SAR < 1.6, Not required
			Rear Face	0.54	0.29	0.00	0.83	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.64	0.07	-	0.71	Σ SAR < 1.6, Not required
			Rear Face	0.71	0.58	-	1.29	Σ SAR < 1.6, Not required
			Left Side	0.55	0.48	-	1.03	Σ SAR < 1.6, Not required
			Right Side	0.44	0.00	-	0.44	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.45	0.00	-	0.45	Σ SAR < 1.6, Not required
10	CDMA BC0 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.57	0.35	-	0.92	Σ SAR < 1.6, Not required
			Right Tilted	0.37	0.20	-	0.57	Σ SAR < 1.6, Not required
			Left Cheek	0.59	0.25	-	0.84	Σ SAR < 1.6, Not required
			Left Tilted	0.33	0.13	-	0.46	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.51	0.04	0.00	0.55	Σ SAR < 1.6, Not required
			Rear Face	0.54	0.99	0.00	1.53	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
11	CDMA BC1 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.70	0.18	-	0.88	Σ SAR < 1.6, Not required
			Right Tilted	0.26	0.16	-	0.42	Σ SAR < 1.6, Not required
			Left Cheek	0.69	0.09	-	0.78	Σ SAR < 1.6, Not required
			Left Tilted	0.23	0.06	-	0.29	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.77	0.04	0.00	0.81	Σ SAR < 1.6, Not required
			Rear Face	0.65	0.29	0.00	0.94	Σ SAR < 1.6, Not required
		Hotspot	Front Face	1.43	0.07	-	1.50	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.58	-	1.76	**Analyzed as below**
			Left Side	1.07	0.48	-	1.55	Σ SAR < 1.6, Not required
			Right Side	0.51	0.00	-	0.51	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.33	0.00	-	0.33	Σ SAR < 1.6, Not required
12	CDMA BC1 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.70	0.35	-	1.05	Σ SAR < 1.6, Not required
			Right Tilted	0.26	0.20	-	0.46	Σ SAR < 1.6, Not required
			Left Cheek	0.69	0.25	-	0.94	Σ SAR < 1.6, Not required
			Left Tilted	0.23	0.13	-	0.36	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.77	0.04	0.00	0.81	Σ SAR < 1.6, Not required
			Rear Face	0.65	0.99	0.00	1.64	**Analyzed as below**

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
13	CDMA BC10 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.59	0.18	-	0.77	Σ SAR < 1.6, Not required
			Right Tilted	0.39	0.16	-	0.55	Σ SAR < 1.6, Not required
			Left Cheek	0.60	0.09	-	0.69	Σ SAR < 1.6, Not required
			Left Tilted	0.35	0.06	-	0.41	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.57	0.04	0.00	0.61	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.29	0.00	0.84	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.65	0.07	-	0.72	Σ SAR < 1.6, Not required
			Rear Face	0.71	0.58	-	1.29	Σ SAR < 1.6, Not required
			Left Side	0.53	0.48	-	1.01	Σ SAR < 1.6, Not required
			Right Side	0.54	0.00	-	0.54	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.41	0.00	-	0.41	Σ SAR < 1.6, Not required
14	CDMA BC10 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.59	0.35	-	0.94	Σ SAR < 1.6, Not required
			Right Tilted	0.39	0.20	-	0.59	Σ SAR < 1.6, Not required
			Left Cheek	0.60	0.25	-	0.85	Σ SAR < 1.6, Not required
			Left Tilted	0.35	0.13	-	0.48	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.57	0.04	0.00	0.61	Σ SAR < 1.6, Not required
			Rear Face	0.55	0.99	0.00	1.54	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
15	LTE 2 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.82	0.18	-	1.00	Σ SAR < 1.6, Not required
			Right Tilted	0.31	0.16	-	0.47	Σ SAR < 1.6, Not required
			Left Cheek	0.90	0.09	-	0.99	Σ SAR < 1.6, Not required
			Left Tilted	0.24	0.06	-	0.3	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.73	0.04	0.00	0.77	Σ SAR < 1.6, Not required
			Rear Face	0.65	0.29	0.00	0.94	Σ SAR < 1.6, Not required
		Hotspot	Front Face	1.37	0.07	-	1.44	Σ SAR < 1.6, Not required
			Rear Face	1.18	0.58	-	1.76	**Analyzed as below**
			Left Side	0.99	0.48	-	1.47	Σ SAR < 1.6, Not required
			Right Side	0.48	0.00	-	0.48	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.33	0.00	-	0.33	Σ SAR < 1.6, Not required
16	LTE 2 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.82	0.35	-	1.17	Σ SAR < 1.6, Not required
			Right Tilted	0.31	0.20	-	0.51	Σ SAR < 1.6, Not required
			Left Cheek	0.90	0.25	-	1.15	Σ SAR < 1.6, Not required
			Left Tilted	0.24	0.13	-	0.37	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.73	0.04	0.00	0.77	Σ SAR < 1.6, Not required
			Rear Face	0.65	0.99	0.00	1.64	**Analyzed as below**

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
17	LTE 4 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.89	0.18	-	1.07	Σ SAR < 1.6, Not required
			Right Tilted	0.28	0.16	-	0.44	Σ SAR < 1.6, Not required
			Left Cheek	0.99	0.09	-	1.08	Σ SAR < 1.6, Not required
			Left Tilted	0.35	0.06	-	0.41	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.90	0.04	0.00	0.94	Σ SAR < 1.6, Not required
			Rear Face	0.74	0.29	0.00	1.03	Σ SAR < 1.6, Not required
		Hotspot	Front Face	1.26	0.07	-	1.33	Σ SAR < 1.6, Not required
			Rear Face	1.13	0.58	-	1.71	**Analyzed as below**
			Left Side	1.09	0.48	-	1.57	Σ SAR < 1.6, Not required
			Right Side	0.35	0.00	-	0.35	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.49	0.00	-	0.49	Σ SAR < 1.6, Not required
18	LTE 4 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.89	0.35	-	1.24	Σ SAR < 1.6, Not required
			Right Tilted	0.28	0.20	-	0.48	Σ SAR < 1.6, Not required
			Left Cheek	0.99	0.25	-	1.24	Σ SAR < 1.6, Not required
			Left Tilted	0.35	0.13	-	0.48	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.90	0.04	0.00	0.94	Σ SAR < 1.6, Not required
			Rear Face	0.74	0.99	0.00	1.73	**Analyzed as below**

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
19	LTE 5 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.51	0.18	-	0.69	Σ SAR < 1.6, Not required
			Right Tilted	0.24	0.16	-	0.4	Σ SAR < 1.6, Not required
			Left Cheek	0.48	0.09	-	0.57	Σ SAR < 1.6, Not required
			Left Tilted	0.25	0.06	-	0.31	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.41	0.04	0.00	0.45	Σ SAR < 1.6, Not required
			Rear Face	0.41	0.29	0.00	0.7	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.45	0.07	-	0.52	Σ SAR < 1.6, Not required
			Rear Face	0.51	0.58	-	1.09	Σ SAR < 1.6, Not required
			Left Side	0.40	0.48	-	0.88	Σ SAR < 1.6, Not required
			Right Side	0.36	0.00	-	0.36	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.34	0.00	-	0.34	Σ SAR < 1.6, Not required
20	LTE 5 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.51	0.35	-	0.86	Σ SAR < 1.6, Not required
			Right Tilted	0.24	0.20	-	0.44	Σ SAR < 1.6, Not required
			Left Cheek	0.48	0.25	-	0.73	Σ SAR < 1.6, Not required
			Left Tilted	0.25	0.13	-	0.38	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.41	0.04	0.00	0.45	Σ SAR < 1.6, Not required
			Rear Face	0.41	0.99	0.00	1.4	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
21	LTE 12 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.27	0.18	-	0.45	Σ SAR < 1.6, Not required
			Right Tilted	0.09	0.16	-	0.25	Σ SAR < 1.6, Not required
			Left Cheek	0.19	0.09	-	0.28	Σ SAR < 1.6, Not required
			Left Tilted	0.12	0.06	-	0.18	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.29	0.04	0.00	0.33	Σ SAR < 1.6, Not required
			Rear Face	0.36	0.29	0.00	0.65	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.34	0.07	-	0.41	Σ SAR < 1.6, Not required
			Rear Face	0.47	0.58	-	1.05	Σ SAR < 1.6, Not required
			Left Side	0.20	0.48	-	0.68	Σ SAR < 1.6, Not required
			Right Side	0.43	0.00	-	0.43	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.08	0.00	-	0.08	Σ SAR < 1.6, Not required
22	LTE 12 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.27	0.35	-	0.62	Σ SAR < 1.6, Not required
			Right Tilted	0.09	0.20	-	0.29	Σ SAR < 1.6, Not required
			Left Cheek	0.19	0.25	-	0.44	Σ SAR < 1.6, Not required
			Left Tilted	0.12	0.13	-	0.25	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.29	0.04	0.00	0.33	Σ SAR < 1.6, Not required
			Rear Face	0.36	0.99	0.00	1.35	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
23	LTE 25 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.75	0.18	-	0.93	Σ SAR < 1.6, Not required
			Right Tilted	0.29	0.16	-	0.45	Σ SAR < 1.6, Not required
			Left Cheek	0.79	0.09	-	0.88	Σ SAR < 1.6, Not required
			Left Tilted	0.26	0.06	-	0.32	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.56	0.04	0.00	0.6	Σ SAR < 1.6, Not required
			Rear Face	0.64	0.29	0.00	0.93	Σ SAR < 1.6, Not required
		Hotspot	Front Face	1.17	0.07	-	1.24	Σ SAR < 1.6, Not required
			Rear Face	1.05	0.58	-	1.63	**Analyzed as below**
			Left Side	1.00	0.48	-	1.48	Σ SAR < 1.6, Not required
			Right Side	0.42	0.00	-	0.42	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.32	0.00	-	0.32	Σ SAR < 1.6, Not required
24	LTE 25 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.75	0.35	-	1.1	Σ SAR < 1.6, Not required
			Right Tilted	0.29	0.20	-	0.49	Σ SAR < 1.6, Not required
			Left Cheek	0.79	0.25	-	1.04	Σ SAR < 1.6, Not required
			Left Tilted	0.26	0.13	-	0.39	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.56	0.04	0.00	0.6	Σ SAR < 1.6, Not required
			Rear Face	0.64	0.99	0.00	1.63	**Analyzed as below**

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
25	LTE 26 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.35	0.18	-	0.53	Σ SAR < 1.6, Not required
			Right Tilted	0.23	0.16	-	0.39	Σ SAR < 1.6, Not required
			Left Cheek	0.48	0.09	-	0.57	Σ SAR < 1.6, Not required
			Left Tilted	0.24	0.06	-	0.3	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.42	0.04	0.00	0.46	Σ SAR < 1.6, Not required
			Rear Face	0.38	0.29	0.00	0.67	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.48	0.07	-	0.55	Σ SAR < 1.6, Not required
			Rear Face	0.53	0.58	-	1.11	Σ SAR < 1.6, Not required
			Left Side	0.43	0.48	-	0.91	Σ SAR < 1.6, Not required
			Right Side	0.38	0.00	-	0.38	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.30	0.00	-	0.3	Σ SAR < 1.6, Not required
26	LTE 26 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.35	0.35	-	0.7	Σ SAR < 1.6, Not required
			Right Tilted	0.23	0.20	-	0.43	Σ SAR < 1.6, Not required
			Left Cheek	0.48	0.25	-	0.73	Σ SAR < 1.6, Not required
			Left Tilted	0.24	0.13	-	0.37	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.42	0.04	0.00	0.46	Σ SAR < 1.6, Not required
			Rear Face	0.38	0.99	0.00	1.37	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2 + SAR3)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
27	LTE 41 + WLAN (DTS) + BT (DSS)	Head	Right Cheek	0.37	0.18	-	0.55	Σ SAR < 1.6, Not required
			Right Tilted	0.23	0.16	-	0.39	Σ SAR < 1.6, Not required
			Left Cheek	0.85	0.09	-	0.94	Σ SAR < 1.6, Not required
			Left Tilted	0.15	0.06	-	0.21	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.35	0.04	0.00	0.39	Σ SAR < 1.6, Not required
			Rear Face	0.54	0.29	0.00	0.83	Σ SAR < 1.6, Not required
		Hotspot	Front Face	0.61	0.07	-	0.68	Σ SAR < 1.6, Not required
			Rear Face	0.84	0.58	-	1.42	Σ SAR < 1.6, Not required
			Left Side	1.18	0.48	-	1.66	**Analyzed as below**
			Right Side	0.02	0.00	-	0.02	Σ SAR < 1.6, Not required
			Top Side	0.00	0.16	-	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.17	0.00	-	0.17	Σ SAR < 1.6, Not required
28	LTE 41 + WLAN (NII) + BT (DSS)	Head	Right Cheek	0.37	0.35	-	0.72	Σ SAR < 1.6, Not required
			Right Tilted	0.23	0.20	-	0.43	Σ SAR < 1.6, Not required
			Left Cheek	0.85	0.25	-	1.1	Σ SAR < 1.6, Not required
			Left Tilted	0.15	0.13	-	0.28	Σ SAR < 1.6, Not required
		Body-Worn	Front Face	0.35	0.04	0.00	0.39	Σ SAR < 1.6, Not required
			Rear Face	0.54	0.99	0.00	1.53	Σ SAR < 1.6, Not required

<SAR to Peak Location Separation Ratio Analysis>

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

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

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

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

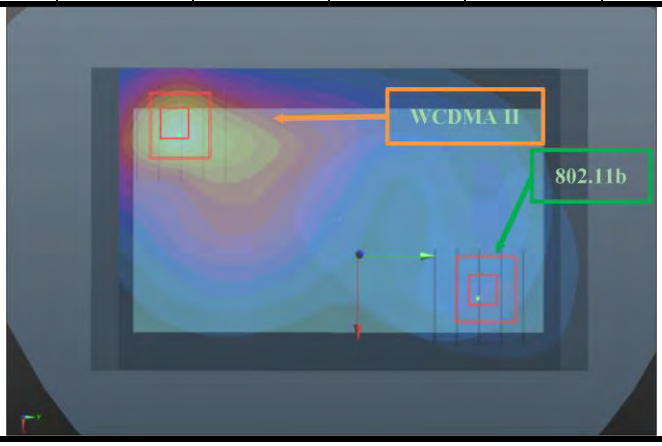
The SPLSR is determined by the following formula.

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

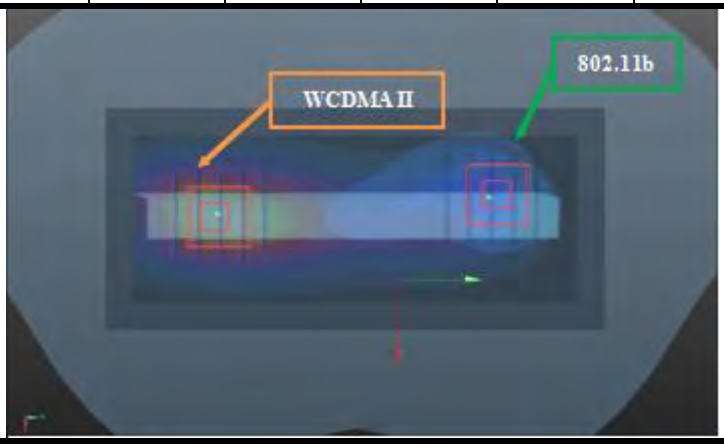
Where SAR_1 and SAR_2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

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

Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9538	Body	Rear Face	1.27	-3.28	-5.96	0.03	124.3	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6			0.58	2.28	5.16	-0.03			

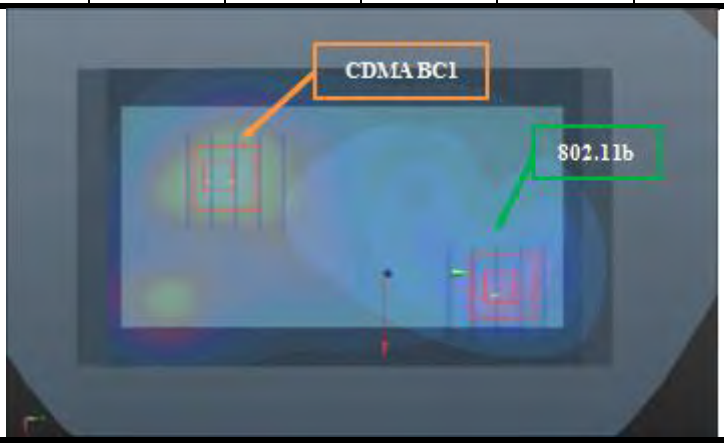


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II Ch9538	Hotspot	Left Side	1.36	-0.04	-5.16	0.07	130.0	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6			0.48	-8	5.12	-0.18			

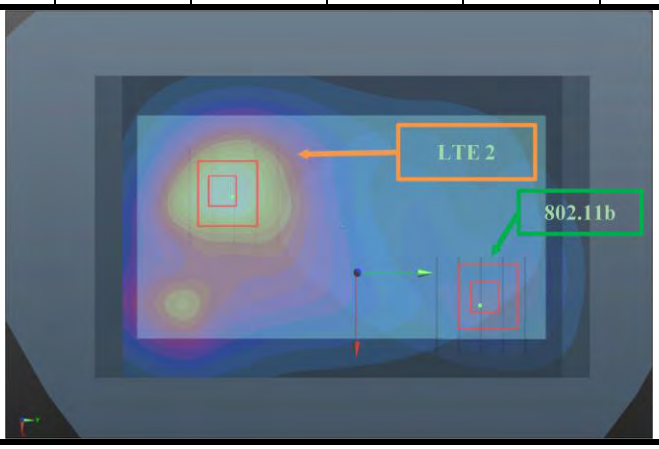


Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch1175	Body	Rear Face	0.65	-1.64	-4.28	0.06	77.4	0.03	SPLSR ≤ 0.04, Not required
802.11a Ch132			0.99	3.45	1.55	-0.15			

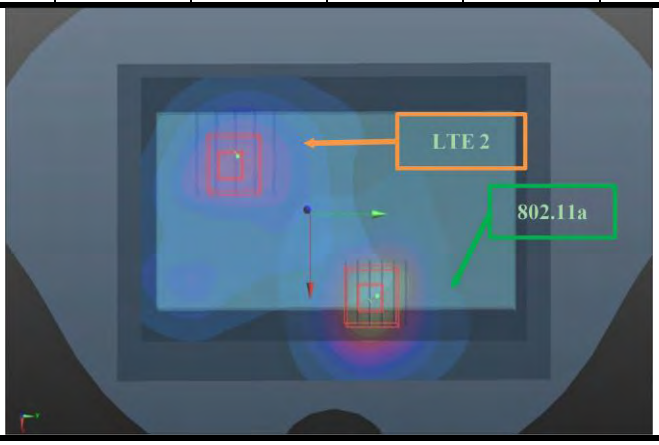
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
CDMA BC1 Ch600	Hotspot	Rear Face	1.18	-1.36	-4.28	0.06	101.2	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch1			0.58	2.28	5.16	-0.03			



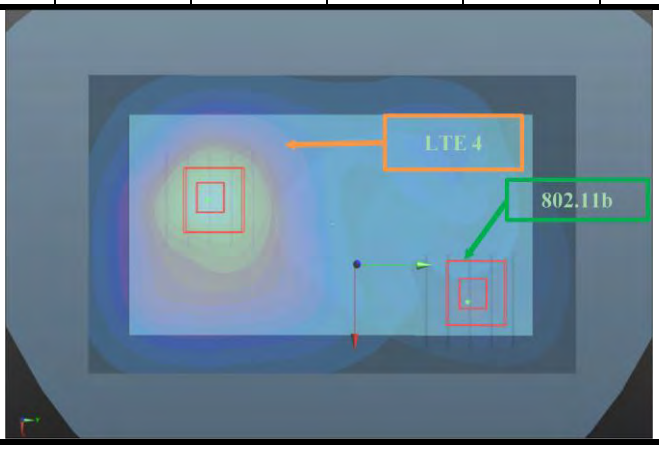
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18700	Body	Rear Face	1.18	-1.16	-4.32	0.07	100.9	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6			0.58	2.28	5.16	-0.03			



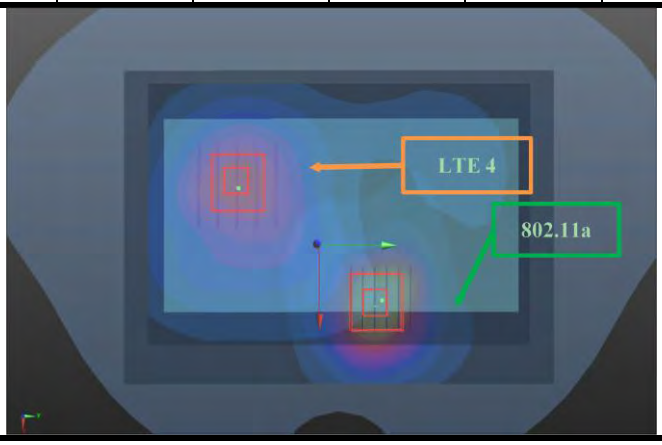
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2 Ch18900	Body	Rear Face	0.65	-1.68	-4.32	0.07	78.0	0.03	SPLSR ≤ 0.04, Not required
802.11a Ch132			0.99	3.45	1.55	-0.1			



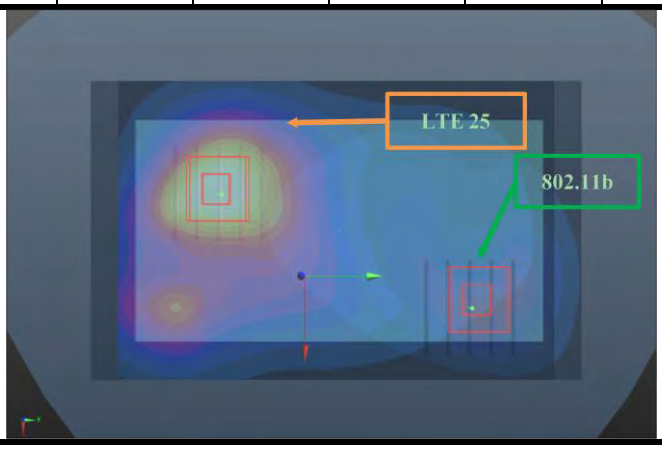
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20300	Body	Rear Face	1.13	-0.8	-4.6	-0.05	102.3	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6			0.58	2.28	5.16	-0.03			



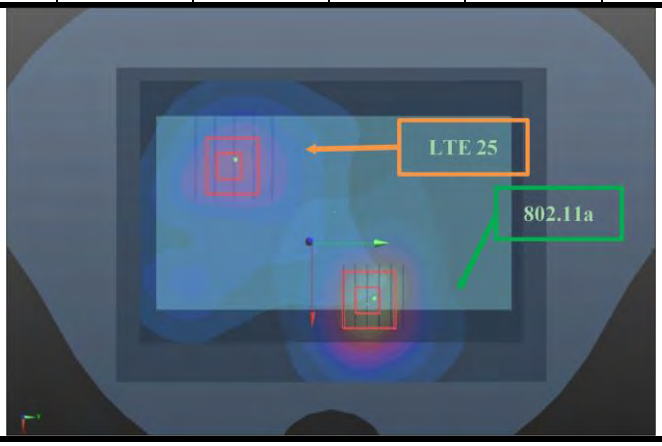
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4 Ch20300	Body	Rear Face	0.74	-1.16	-4.36	0.07	75.0	0.03	SPLSR ≤ 0.04, Not required
802.11a Ch132			0.99	3.45	1.55	-0.1			



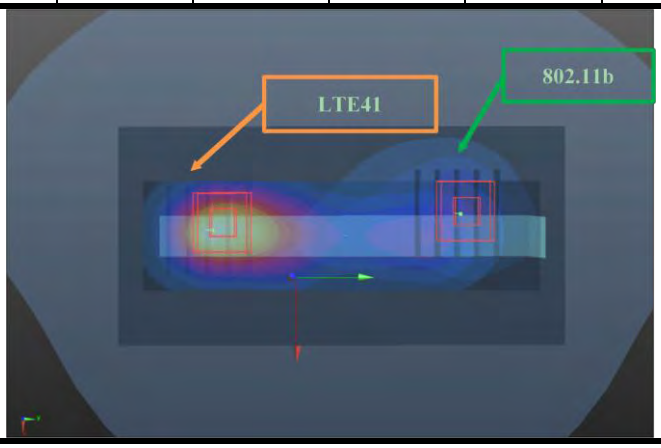
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch26140	Body	Rear Face	1.05	-1.36	-4.52	0.07	103.4	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6			0.58	2.28	5.16	-0.03			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25 Ch20365	Body	Rear Face	0.64	-1.68	-4.32	0.07	78.0	0.03	SPLSR ≤ 0.04, Not required
802.11a Ch132			0.99	3.45	1.55	-0.1			



Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 41 Ch41055	Body	Left Side	1.18	-0.36	-4.88	0.07	100.1	0.02	SPLSR ≤ 0.04, Not required
802.11b Ch6			0.48	-0.8	5.12	-0.18			



Test Engineer： Willy Chang, and Chiajui Fu

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1013	Aug. 24, 2015	1 Year
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 24, 2015	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Aug. 20, 2015	1 Year
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 22, 2016	1 Year
System Validation Dipole	SPEAG	D2450V2	737	Aug. 20, 2015	1 Year
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 19, 2015	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Aug. 28, 2015	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	1790	Jun. 24, 2016	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Mar. 23, 2016	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3820	Jun. 27, 2016	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7350	Dec. 17, 2015	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7346	Jun. 23, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE4	861	Jun. 16, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 21, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1305	Dec. 16, 2015	1 Year
Data Acquisition Electronics	SPEAG	DAE4	905	Jun. 22, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE3	393	Jan. 12, 2016	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 21, 2016	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50266628	Nov. 05, 2015	2 Years
Radio Communication Analyzer	Anritsu	MT8820C	6201010285	Aug. 23, 2015	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214281	Jun. 13, 2016	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Mar. 25, 2016	1 Year
MXG Analong Signal Generator	Agilent	N5181A	MY50143868	Jul. 07, 2016	1 Year
Power Meter	Anritsu	ML2495A	1218009	Jul. 06, 2016	1 Year
Power Sensor	Anritsu	MA2411B	1207252	Jul. 06, 2016	1 Year
Thermometer	YFE	YF-160A	130504579	Aug. 20, 2015	1 Year

6. Measurement Uncertainty

Source of Uncertainty	Tolerance (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	Rectangular	√3	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.707	0.707	3.9	3.9	∞
Boundary Effect	1.0	Rectangular	√3	1	1	0.6	0.6	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
System Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions - Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom Shell	2.9	Rectangular	√3	1	1	1.7	1.7	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Test Sample Related								
Test Sample Positioning	1.5 / 0.7	Normal	1	1	1	1.5	0.7	32
Device Holder Uncertainty	4.2 / 1.8	Normal	1	1	1	4.2	1.8	32
Output Power Variation - SAR Drift Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.2	Rectangular	√3	1	1	4.2	4.2	∞
Liquid Conductivity - Deviation from Target Values	5.0	Rectangular	√3	0.64	0.43	1.8	1.2	∞
Liquid Conductivity - Measurement Uncertainty	1.0	Normal	1	0.64	0.43	0.6	0.4	25
Liquid Permittivity - Deviation from Target Values	5.0	Rectangular	√3	0.60	0.49	1.7	1.4	∞
Liquid Permittivity - Measurement Uncertainty	0.5	Normal	1	0.60	0.49	0.3	0.2	25
Combined Standard Uncertainty						± 11.2 %	± 10.4 %	
Expanded Uncertainty (K=2)						**± 22.4 %**	**± 20.8 %**	

Uncertainty budget for frequency range 300 MHz to 3 GHz

Source of Uncertainty	Tolerance (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	∞
Axial Isotropy	4.7	Rectangular	√3	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.707	0.707	3.9	3.9	∞
Boundary Effect	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
System Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions - Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom Shell	6.7	Rectangular	√3	1	1	3.9	3.9	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	4.0	Rectangular	√3	1	1	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	1.5 / 0.7	Normal	1	1	1	1.5	0.7	32
Device Holder Uncertainty	4.2 / 1.8	Normal	1	1	1	4.2	1.8	32
Output Power Variation - SAR Drift Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.6	Rectangular	√3	1	1	4.4	4.4	∞
Liquid Conductivity - Deviation from Target Values	5.0	Rectangular	√3	0.64	0.43	1.8	1.2	∞
Liquid Conductivity - Measurement Uncertainty	1.0	Normal	1	0.64	0.43	0.6	0.4	25
Liquid Permittivity - Deviation from Target Values	5.0	Rectangular	√3	0.60	0.49	1.7	1.4	∞
Liquid Permittivity - Measurement Uncertainty	0.5	Normal	1	0.60	0.49	0.3	0.2	25
Combined Standard Uncertainty						± 12.3 %	± 11.5 %	
Expanded Uncertainty (K=2)						**± 24.6 %**	**± 23.0 %**	

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., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

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

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Appendix A. SAR Plots of System Verification

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

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/27

System Check_H750_160727

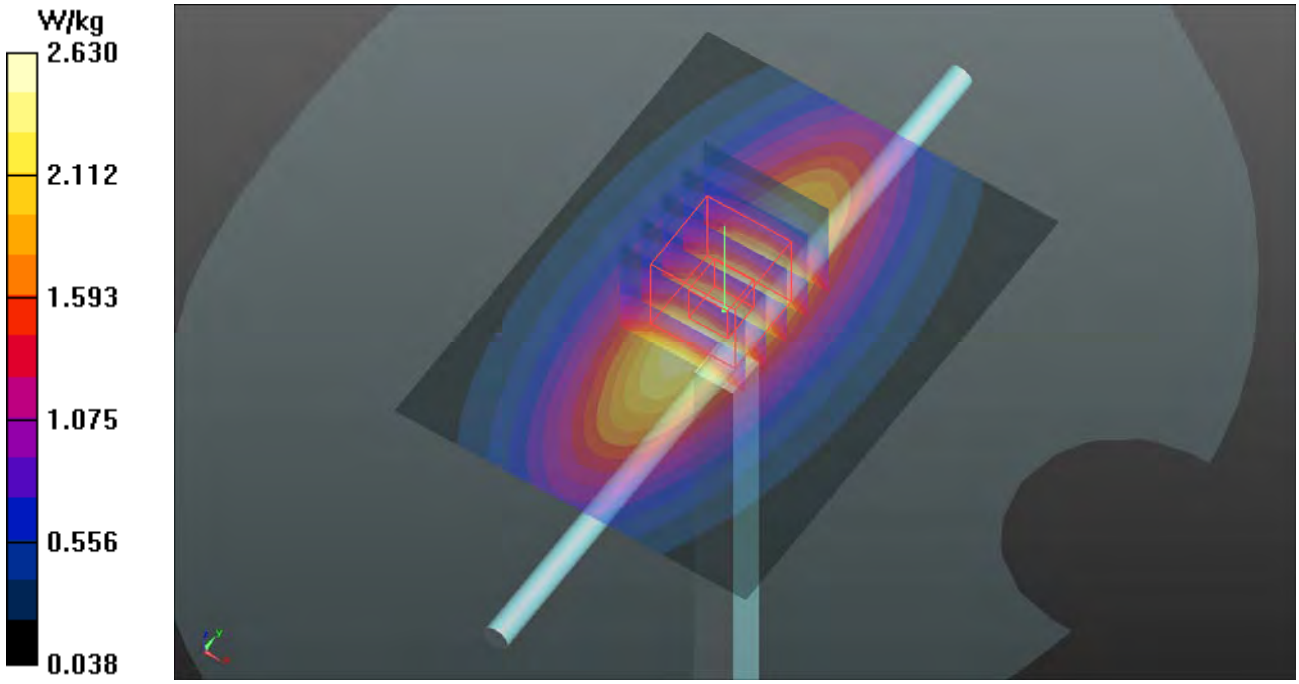
DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: H06T09N1_0727 Medium parameters used: f = 750 MHz; σ = 0.895 S/m; ε_r = 41.325; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃ ； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: ET3DV6 - SN1790; ConvF(7.03, 7.03, 7.03); Calibrated: 2016/06/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2016/06/16
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.63 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.77 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.07 W/kg
SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.36 W/kg
Maximum value of SAR (measured) = 2.61 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/27

System Check_H835_160727

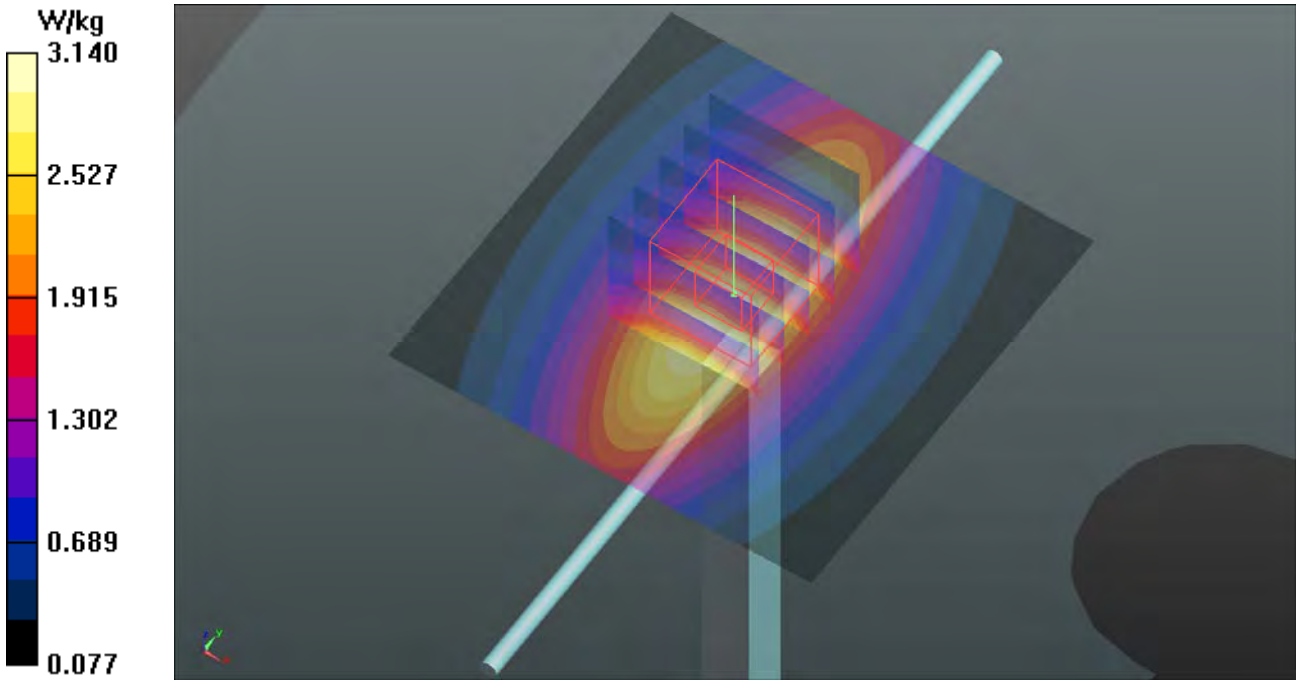
DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: H07T10N3_0727 Medium parameters used: f = 835 MHz; σ = 0.902 S/m; ε_r = 43.047; ρ = 1000 kg/m^3
Ambient Temperature：24.1 ℃ ； Liquid Temperature：23.8 ℃

DASY5 Configuration:
- Probe: ET3DV6 - SN1790; ConvF(6.71, 6.71, 6.71); Calibrated: 2016/06/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- 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) = 3.14 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.83 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.55 W/kg
SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.55 W/kg
Maximum value of SAR (measured) = 3.15 W/kg



System Check_H1750_160723

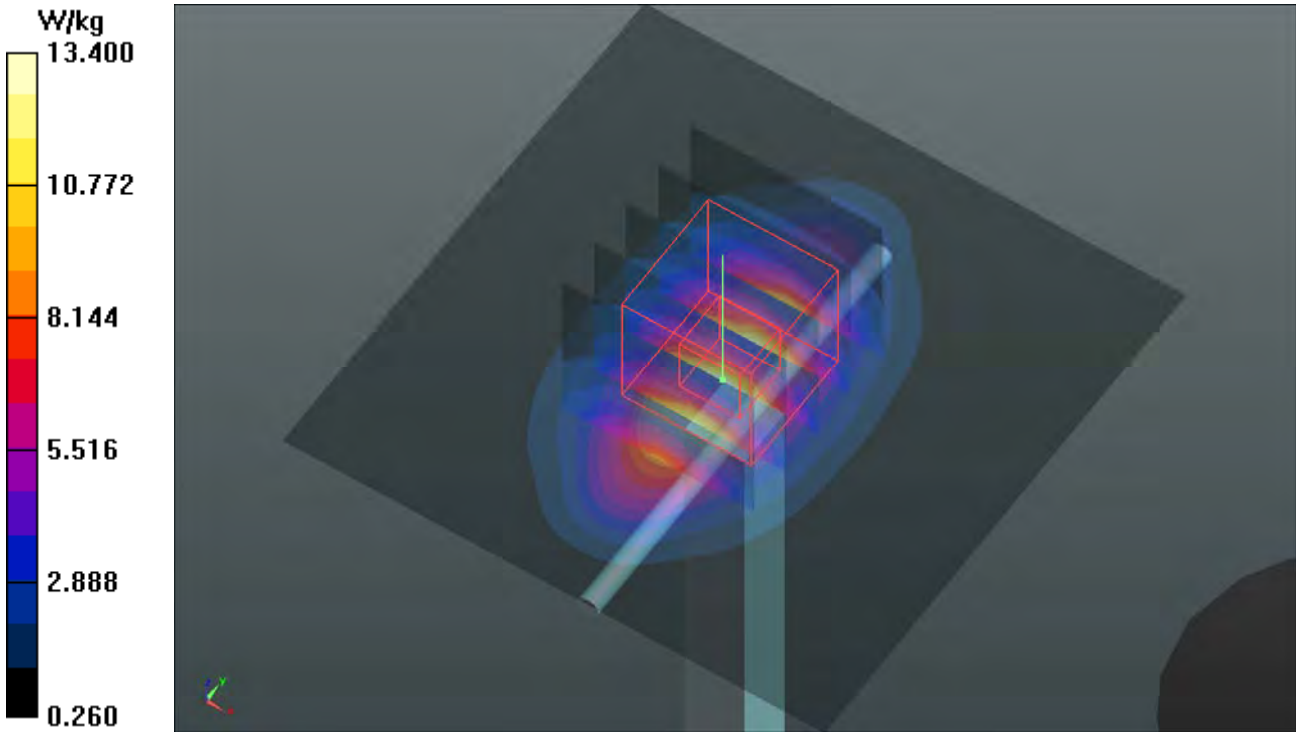
DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: H16T20N2_0723 Medium parameters used: f = 1750 MHz; σ = 1.328 S/m; ε_r = 40.494; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(8.53, 8.53, 8.53); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- 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) = 13.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 97.90 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 15.9 W/kg
SAR(1 g) = 8.75 W/kg; SAR(10 g) = 4.67 W/kg
Maximum value of SAR (measured) = 13.4 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/23

System Check_H1900_160723

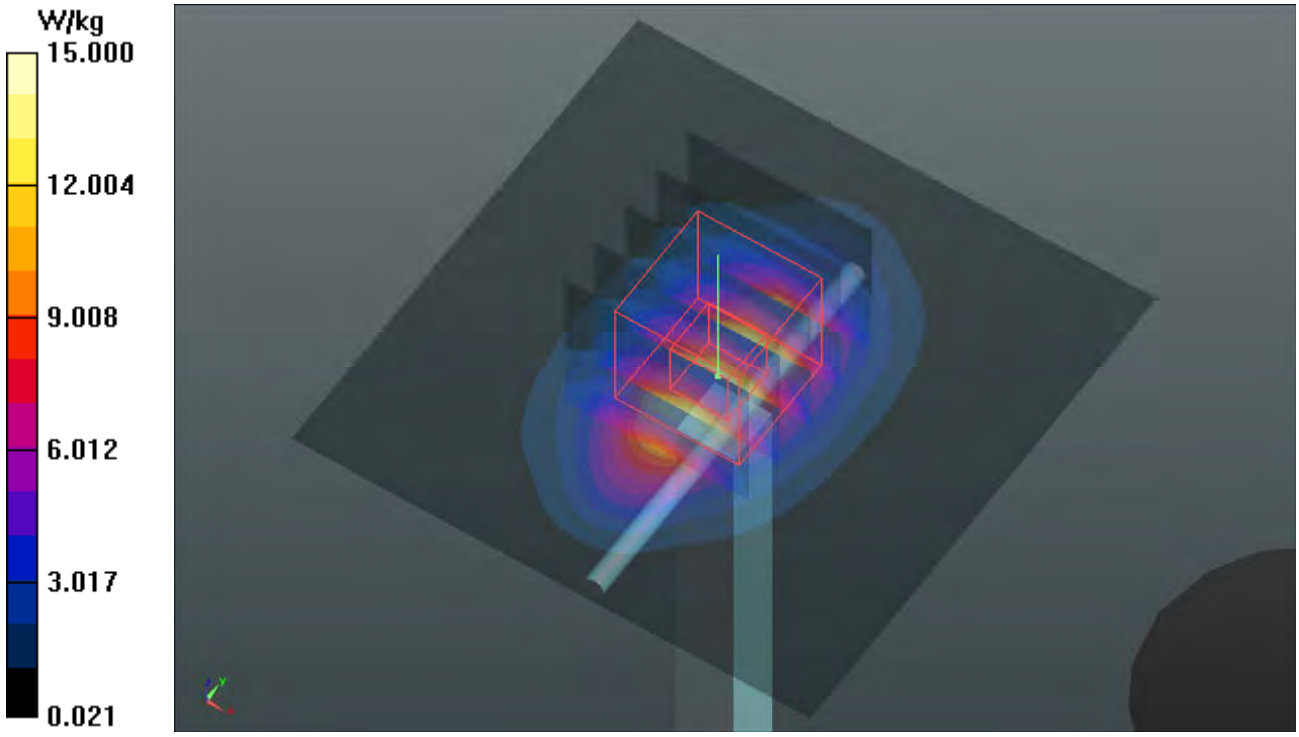
DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: H16T20N2_0723 Medium parameters used: f = 1900 MHz; σ = 1.459 S/m; ε_r = 38.97; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(8.17, 8.17, 8.17); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- 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) = 15.0 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 105.3 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 17.8 W/kg
SAR(1 g) = 9.53 W/kg; SAR(10 g) = 4.94 W/kg
Maximum value of SAR (measured) = 14.9 W/kg



System Check_H2450_160723

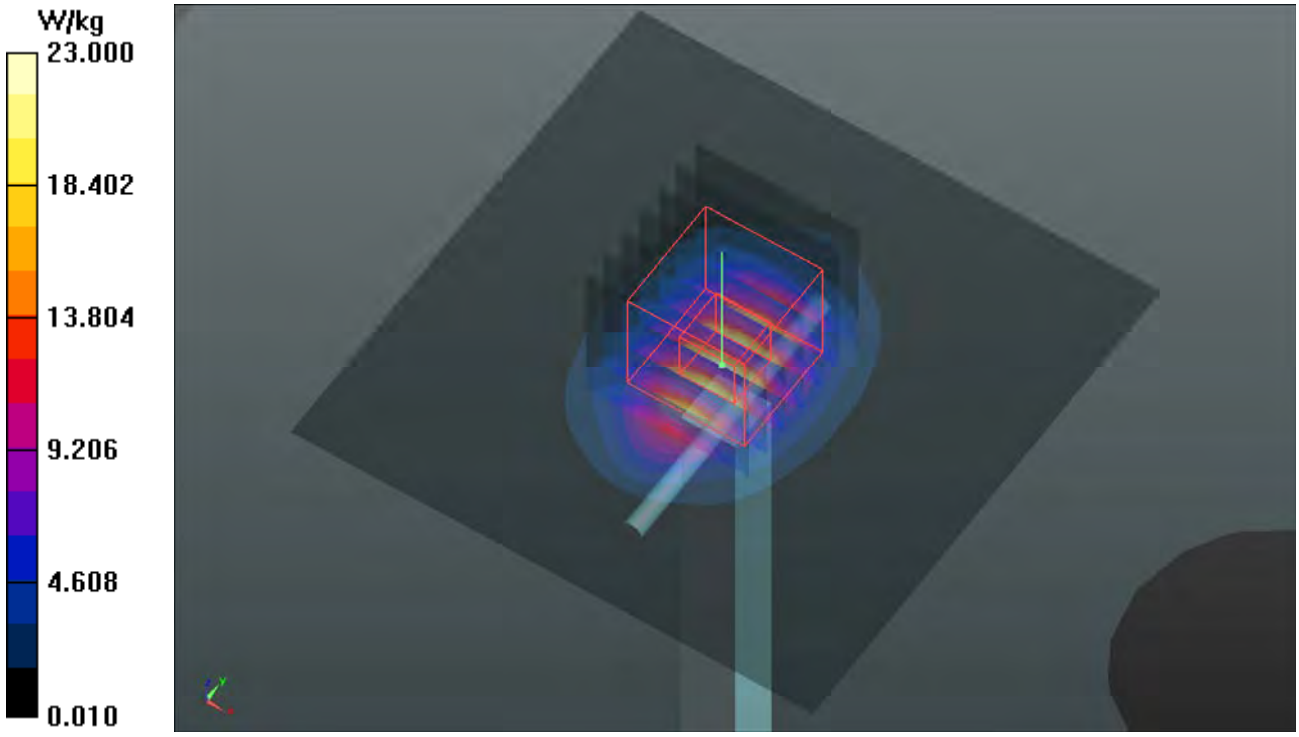
DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: H19T27N3_0723 Medium parameters used: f = 2450 MHz; σ = 1.873 S/m; ε_r = 39.677; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(7.36, 7.36, 7.36); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- 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) = 23.0 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 107.4 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 29.1 W/kg
SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.13 W/kg
Maximum value of SAR (measured) = 23.2 W/kg



System Check_H2600_160723

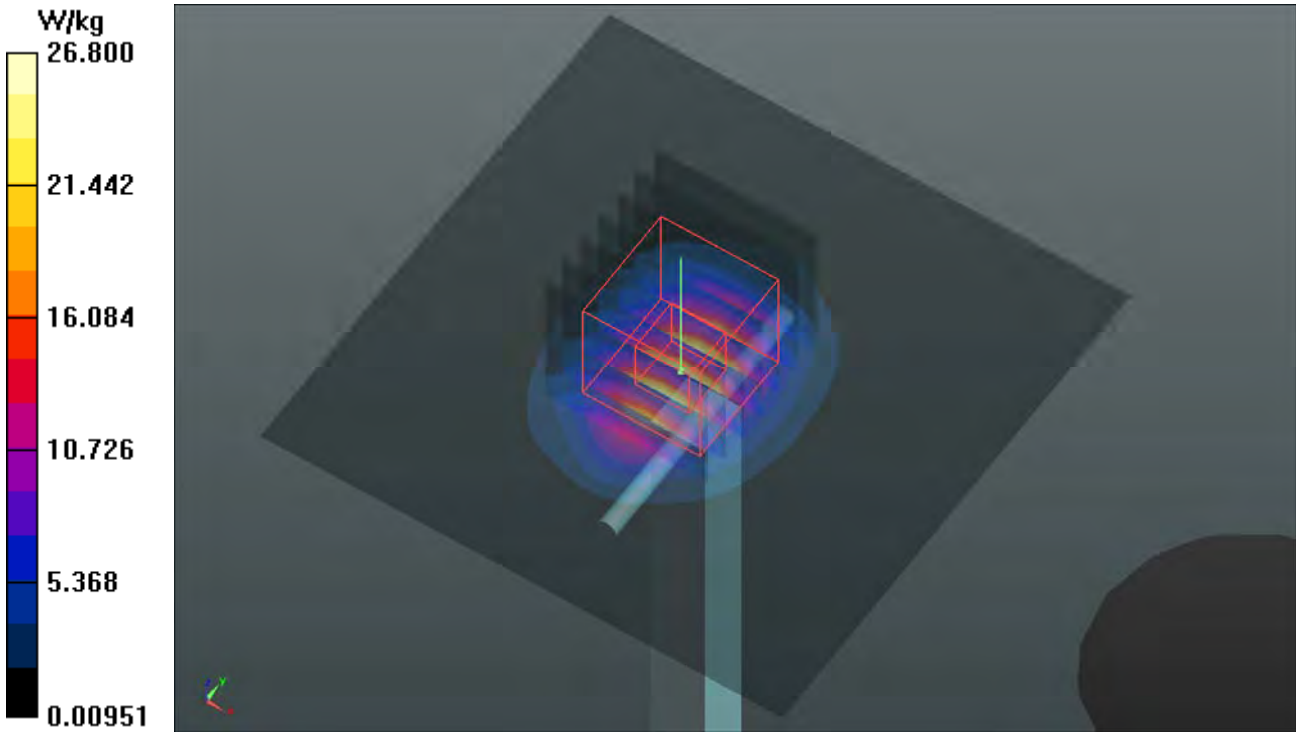
DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: H19T27N3_0723 Medium parameters used: f = 2600 MHz; σ = 2.025 S/m; ε_r = 39.144; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(7.16, 7.16, 7.16); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- 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) = 26.8 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 109.3 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 34.0 W/kg
SAR(1 g) = 15.1 W/kg; SAR(10 g) = 6.65 W/kg
Maximum value of SAR (measured) = 26.7 W/kg



System Check_H5250_160729

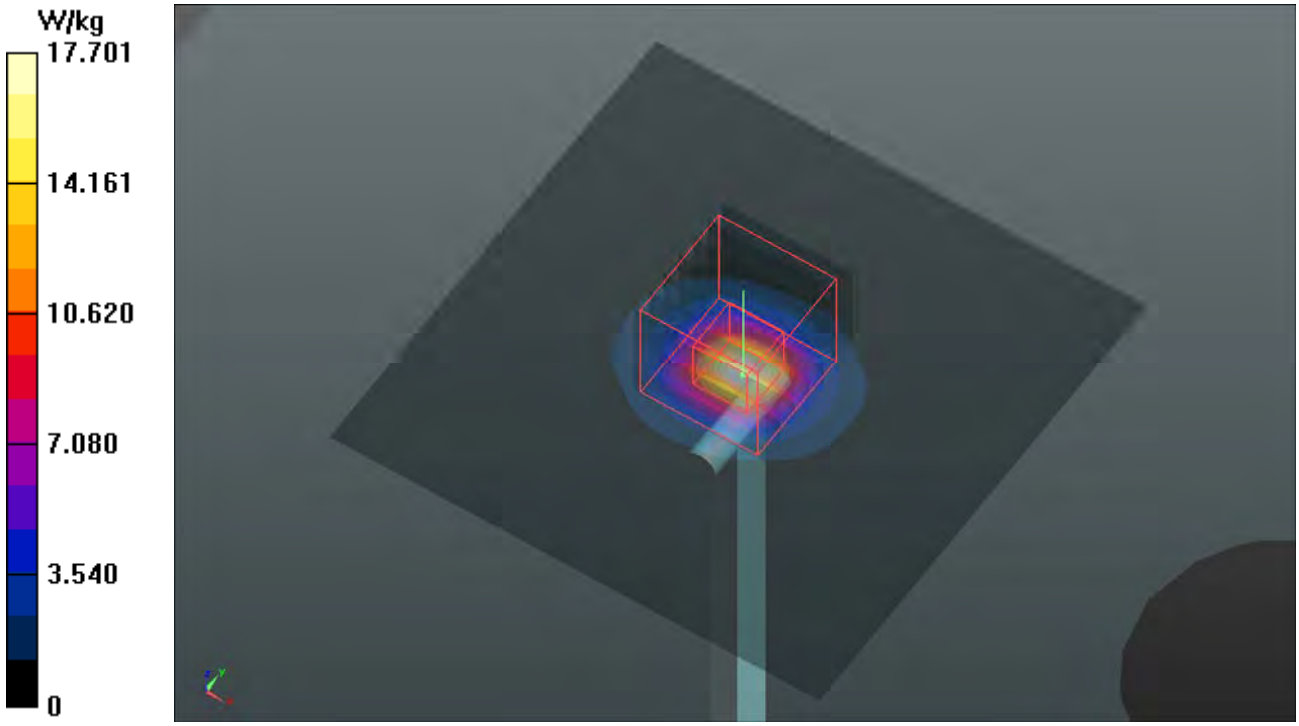
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: H34T60N2_0729 Medium parameters used: f = 5250 MHz; σ = 4.58 S/m; ε_r = 36.321; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(5.25, 5.25, 5.25); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- 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) = 17.7 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 71.00 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 31.7 W/kg
SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.24 W/kg
Maximum value of SAR (measured) = 19.4 W/kg



System Check_H5600_160729

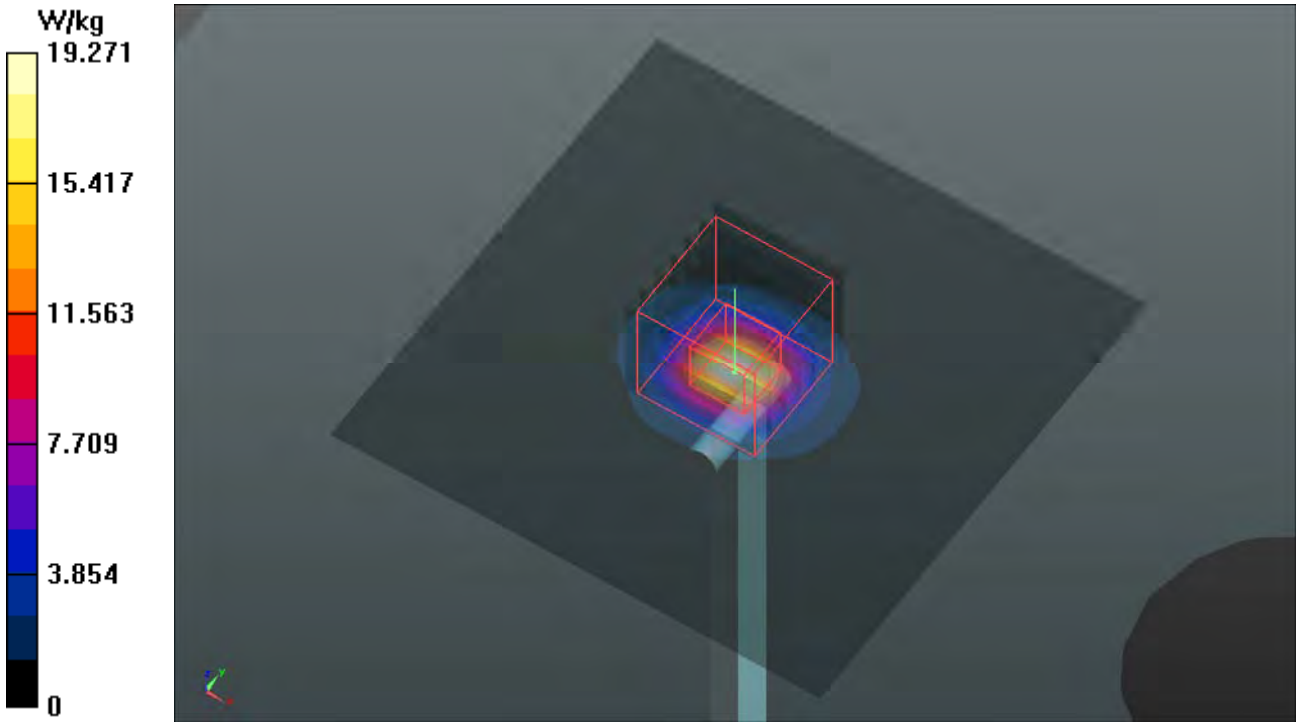
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: H34T60N2_0729 Medium parameters used: f = 5600 MHz; σ = 4.966 S/m; ε_r = 35.967; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(4.52, 4.52, 4.52); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- 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) = 19.3 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 71.25 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 34.0 W/kg
SAR(1 g) = 8.11 W/kg; SAR(10 g) = 2.31 W/kg
Maximum value of SAR (measured) = 20.7 W/kg



System Check_H5800_160729

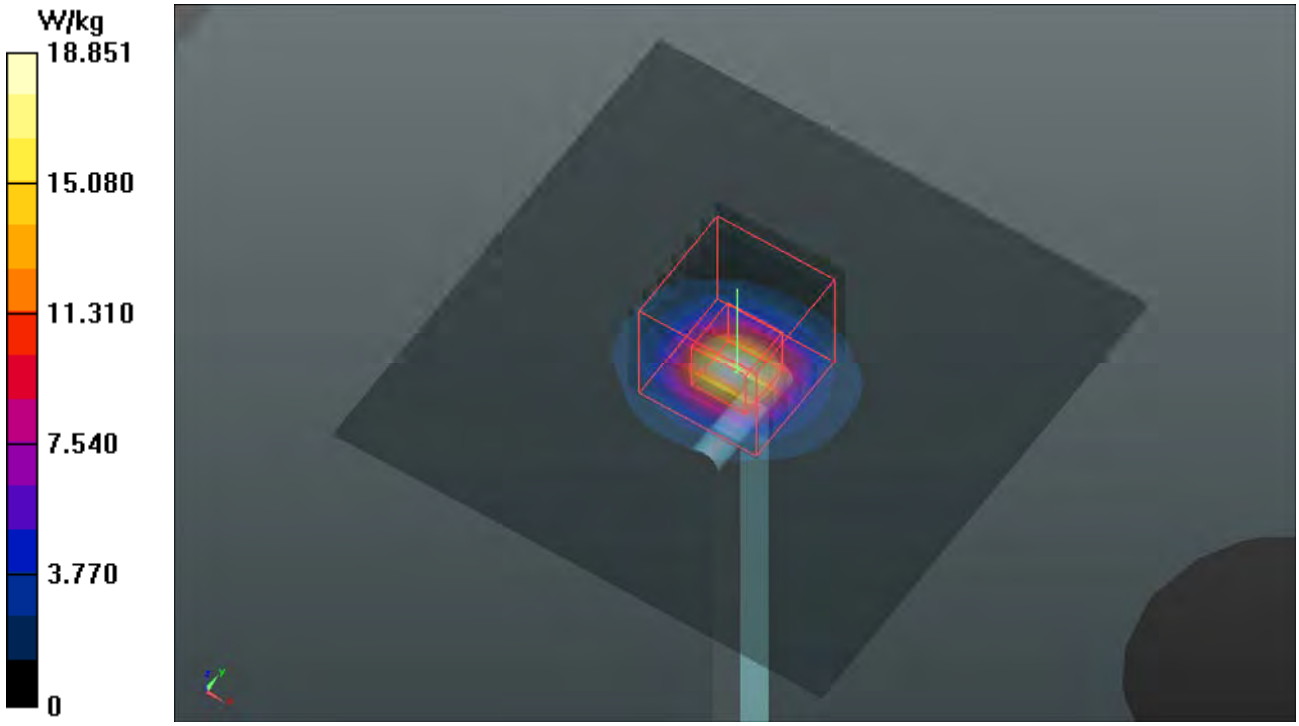
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium: H34T60N2_0729 Medium parameters used: f = 5800 MHz; σ = 5.105 S/m; ε_r = 35.566; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(4.53, 4.53, 4.53); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- 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) = 18.9 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 69.40 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 34.8 W/kg
SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.28 W/kg
Maximum value of SAR (measured) = 20.7 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/22

System Check_B750_160722

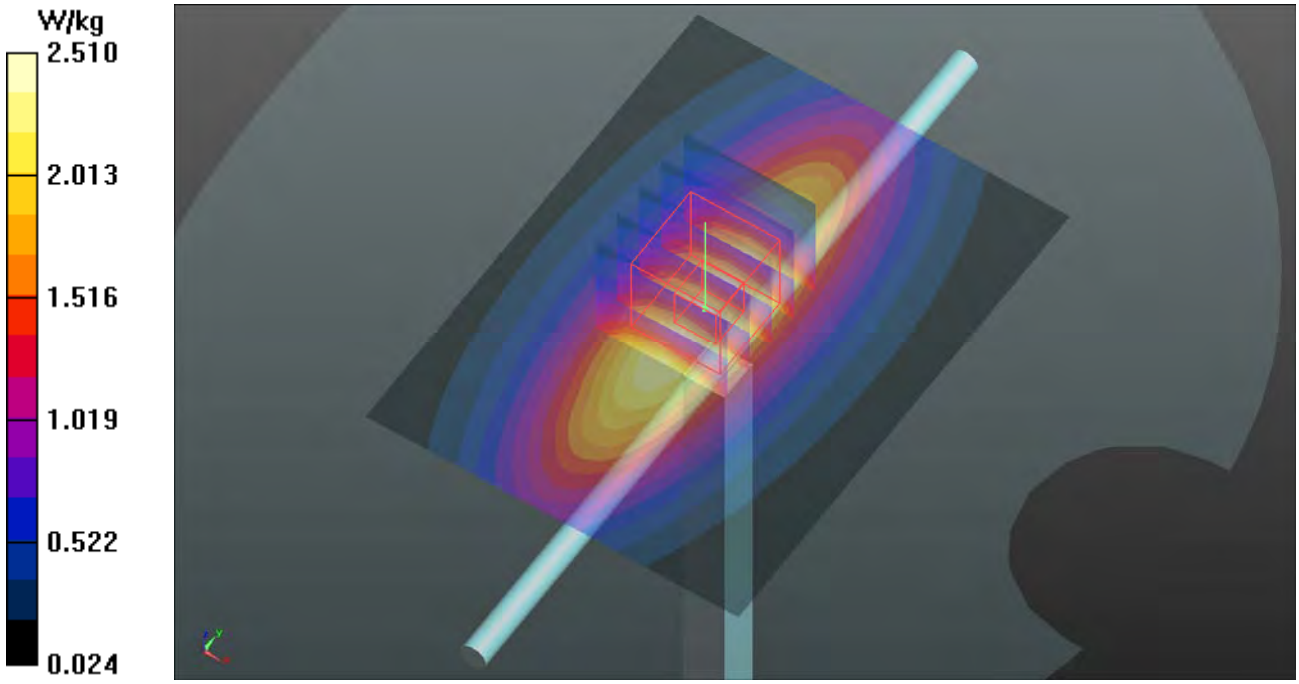
DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: B06T09N1_0722 Medium parameters used: f = 750 MHz; σ = 0.959 S/m; ε_r = 56.41; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(10, 10, 10); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.51 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 52.06 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.89 W/kg
SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.36 W/kg
Maximum value of SAR (measured) = 2.51 W/kg



System Check_B835_160730

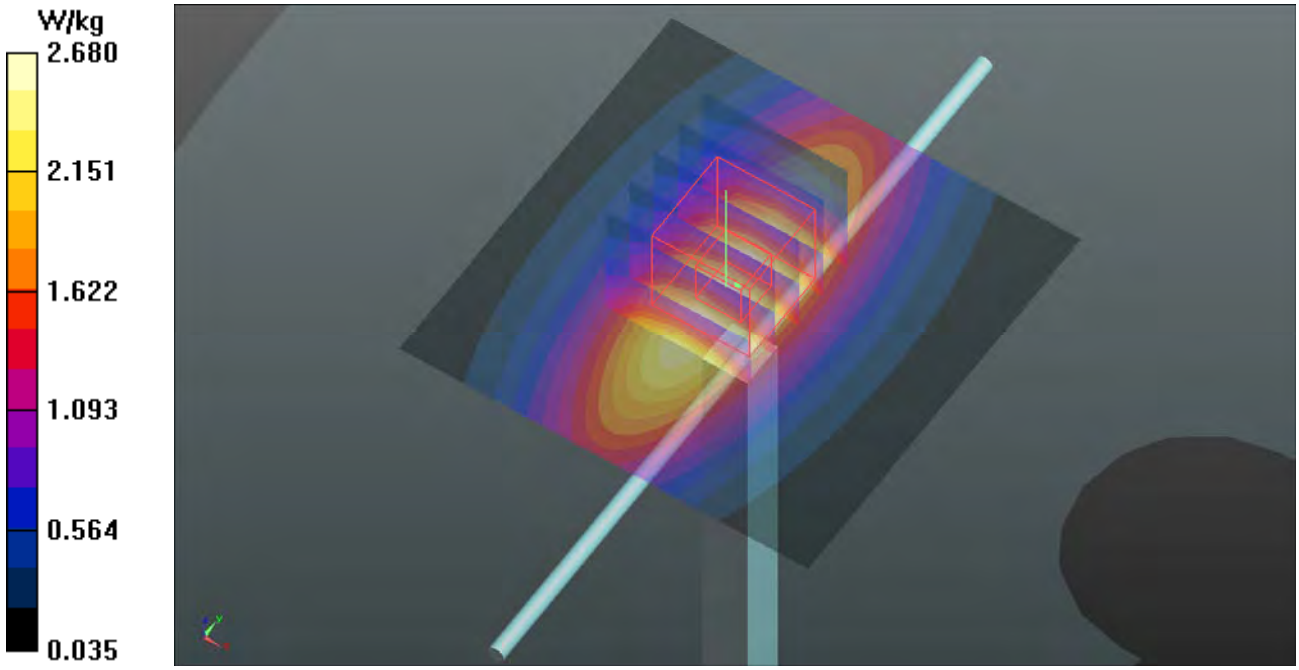
DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0730 Medium parameters used: f = 835 MHz; σ = 1.014 S/m; ε_r = 54.813; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- 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) = 2.68 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 49.78 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.09 W/kg
SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.41 W/kg
Maximum value of SAR (measured) = 2.67 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/21

System Check_B1750_160721

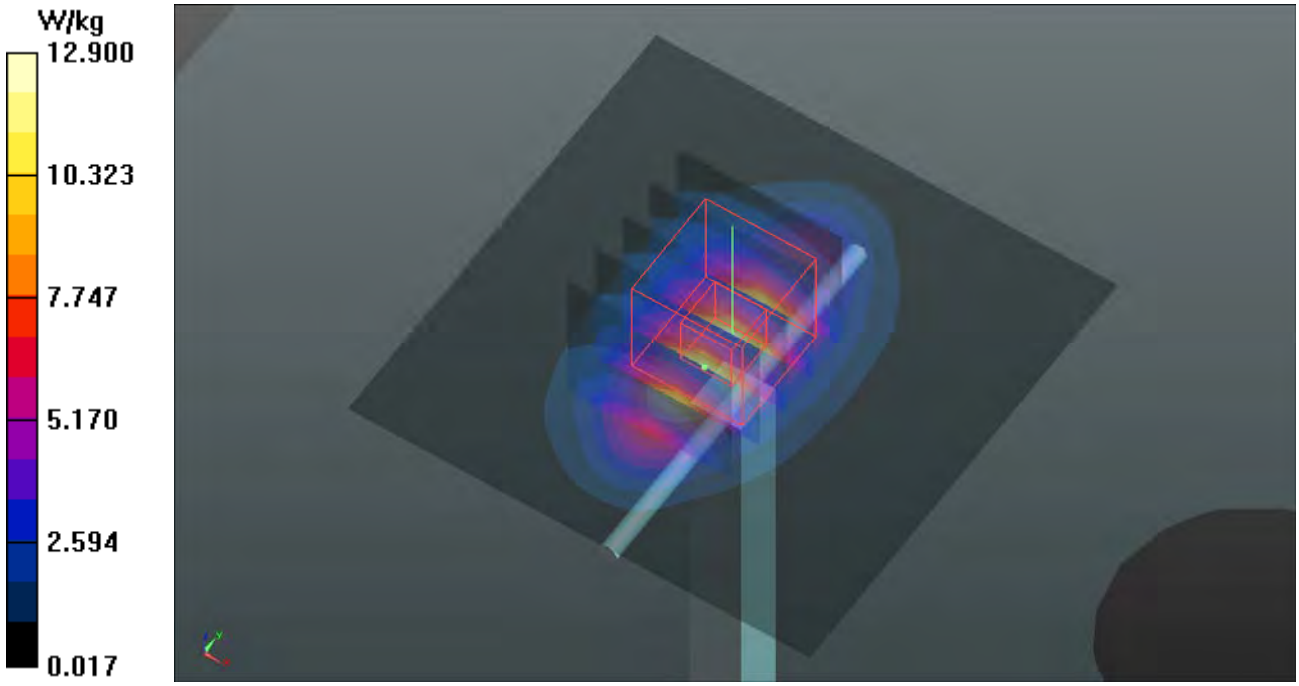
DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: B16T20N2_0721 Medium parameters used: f = 1750 MHz; σ = 1.432 S/m; ε_r = 52.8; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.08, 8.08, 8.08); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- 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) = 12.9 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 94.36 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 15.6 W/kg
SAR(1 g) = 8.93 W/kg; SAR(10 g) = 4.83 W/kg
Maximum value of SAR (measured) = 12.4 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/29

System Check_B1900_160729

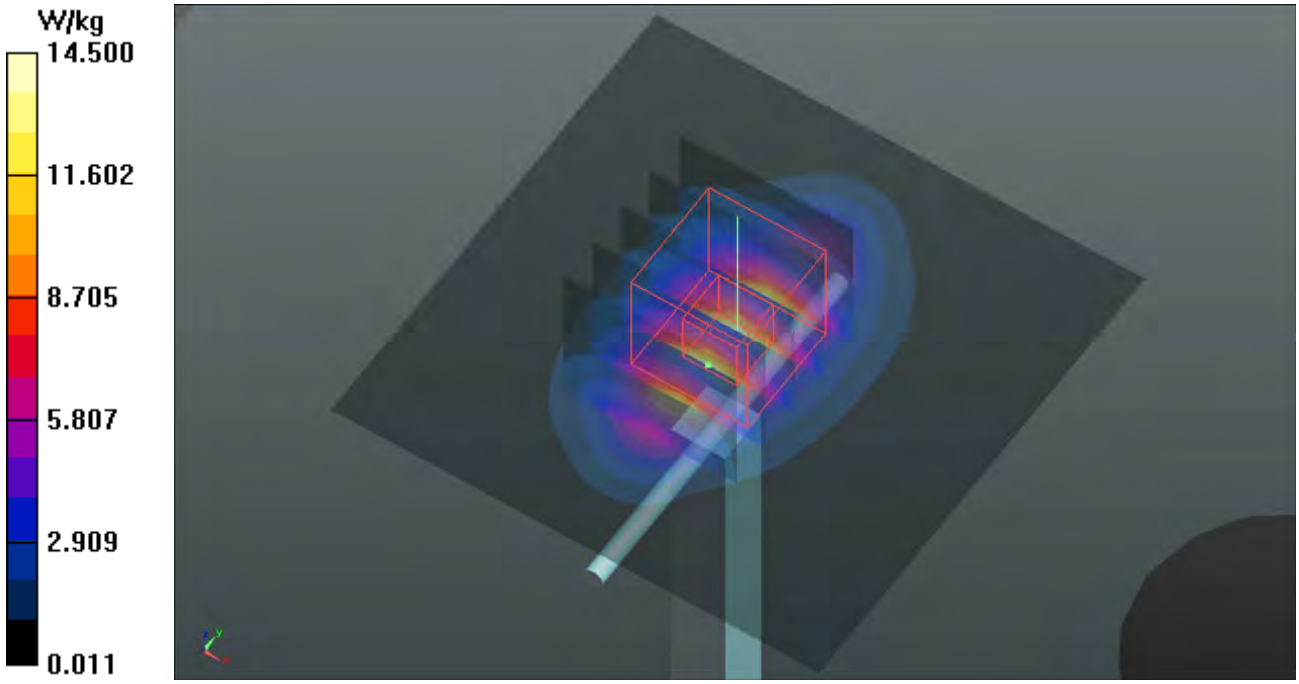
DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: B16T20N1_0729 Medium parameters used: f = 1900 MHz; σ = 1.573 S/m; ε_r = 51.016; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- 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) = 14.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 96.53 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 10 W/kg; SAR(10 g) = 5.26 W/kg
Maximum value of SAR (measured) = 14.1 W/kg



System Check_B2450_160722

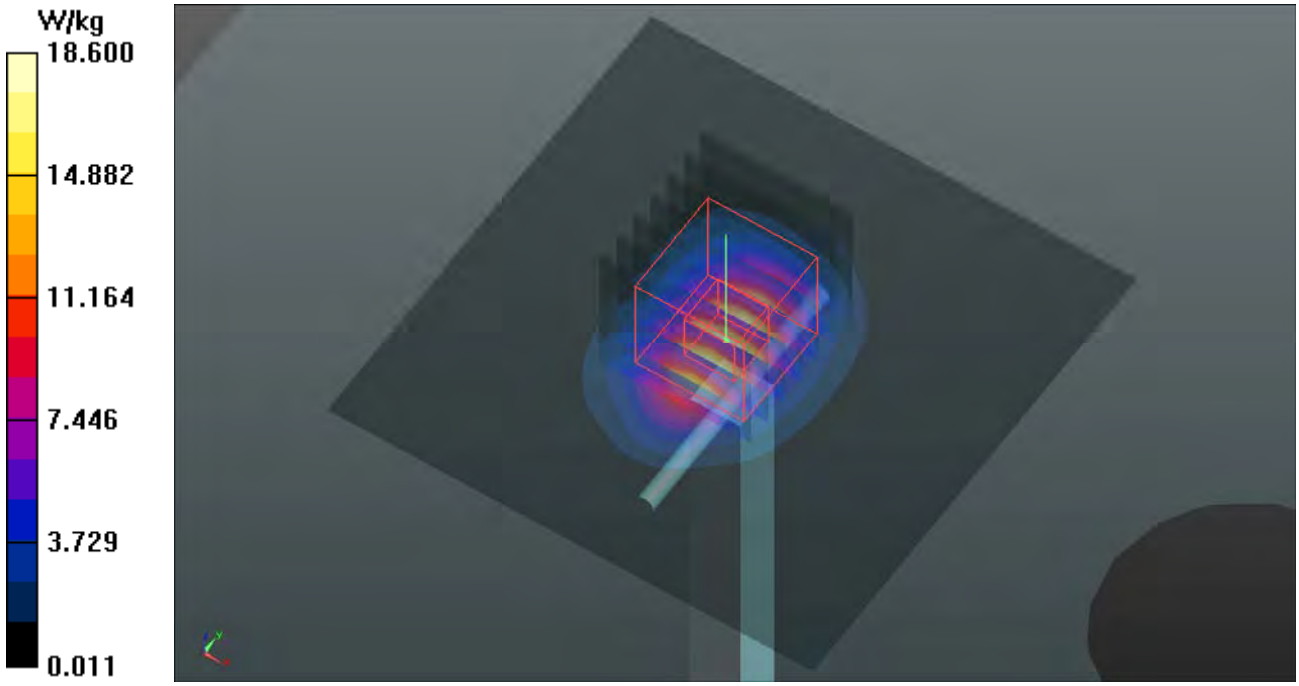
DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: B19T27N3_0722 Medium parameters used: f = 2450 MHz; σ = 2.022 S/m; ε_r = 51.924; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.24, 7.24, 7.24); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- 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) = 18.6 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 96.64 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 24.7 W/kg
SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.72 W/kg
Maximum value of SAR (measured) = 18.6 W/kg



System Check_B2600_160727

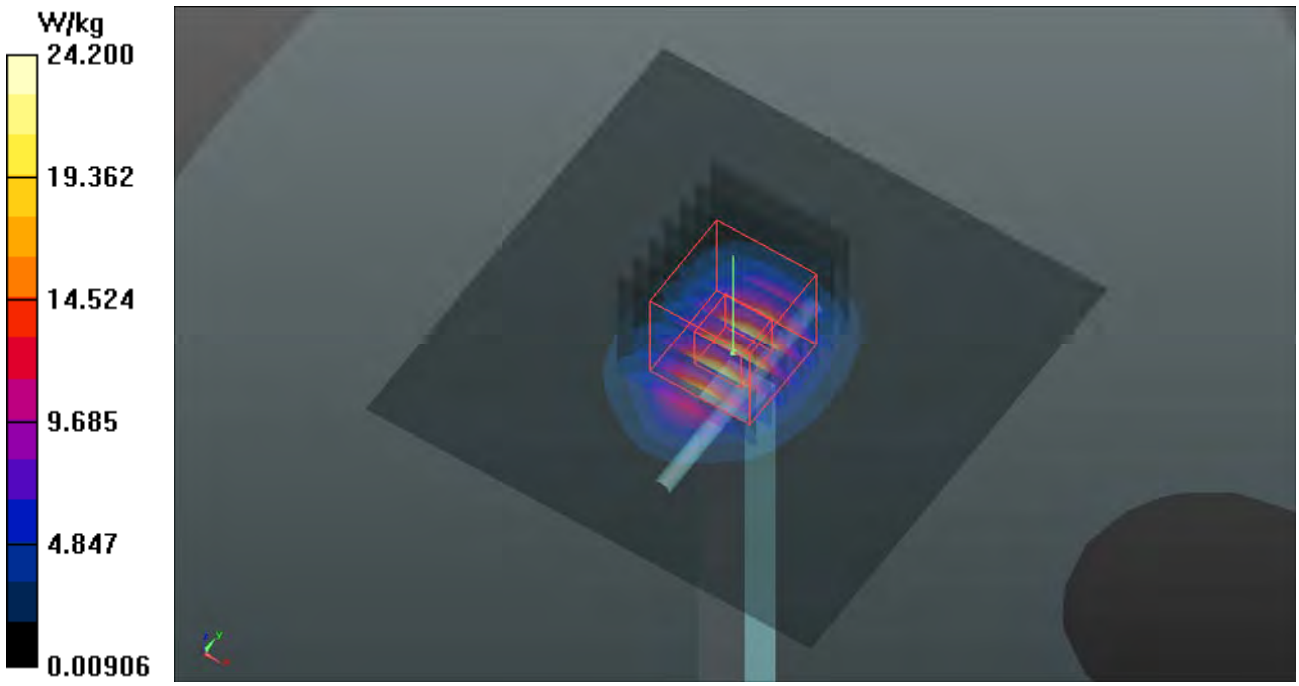
DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: B19T27N2_0727 Medium parameters used: f = 2600 MHz; σ = 2.193 S/m; ε_r = 50.27; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(6.88, 6.88, 6.88); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- 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) = 24.2 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 107.8 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 30.7 W/kg
SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.05 W/kg
Maximum value of SAR (measured) = 24.1 W/kg



System Check_B5250_160729

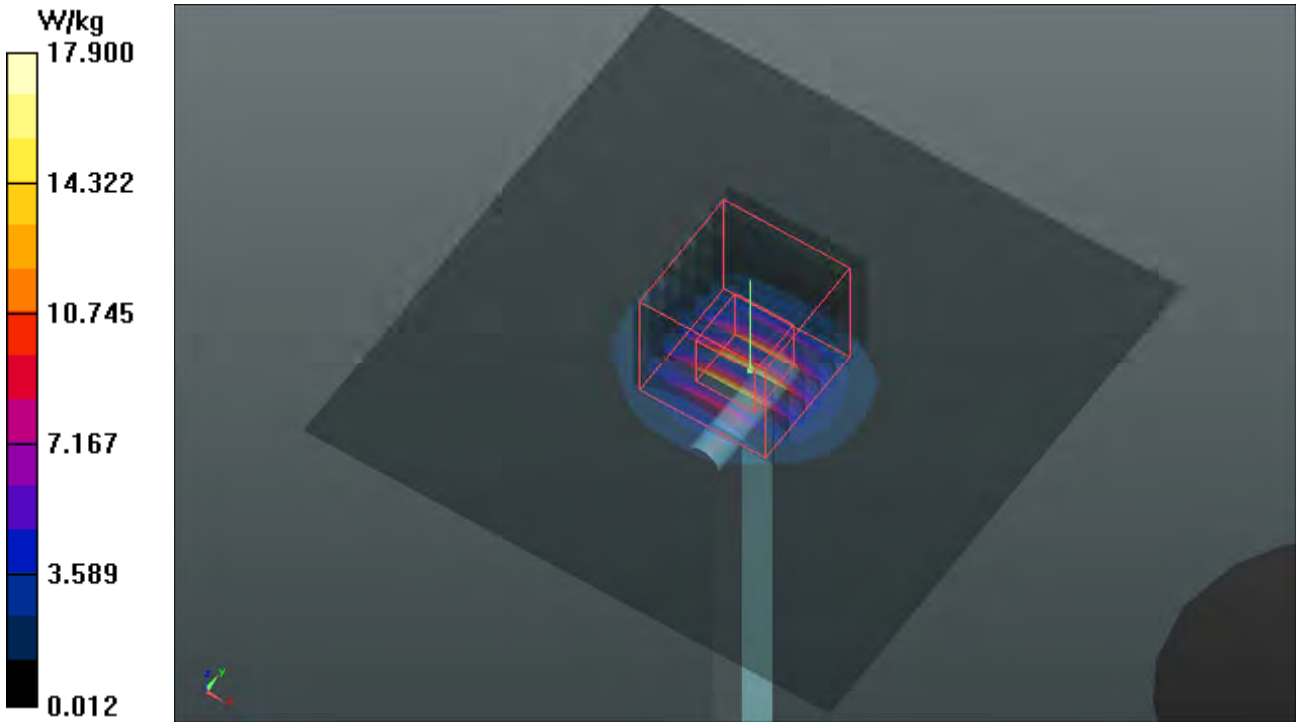
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: B34T60N3_0729 Medium parameters used: f = 5250 MHz; σ = 5.418 S/m; ε_r = 47.438; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(4.62, 4.62, 4.62); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- 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) = 17.9 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 57.72 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 31.4 W/kg
SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.29 W/kg
Maximum value of SAR (measured) = 19.3 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/29

System Check_B5600_160729

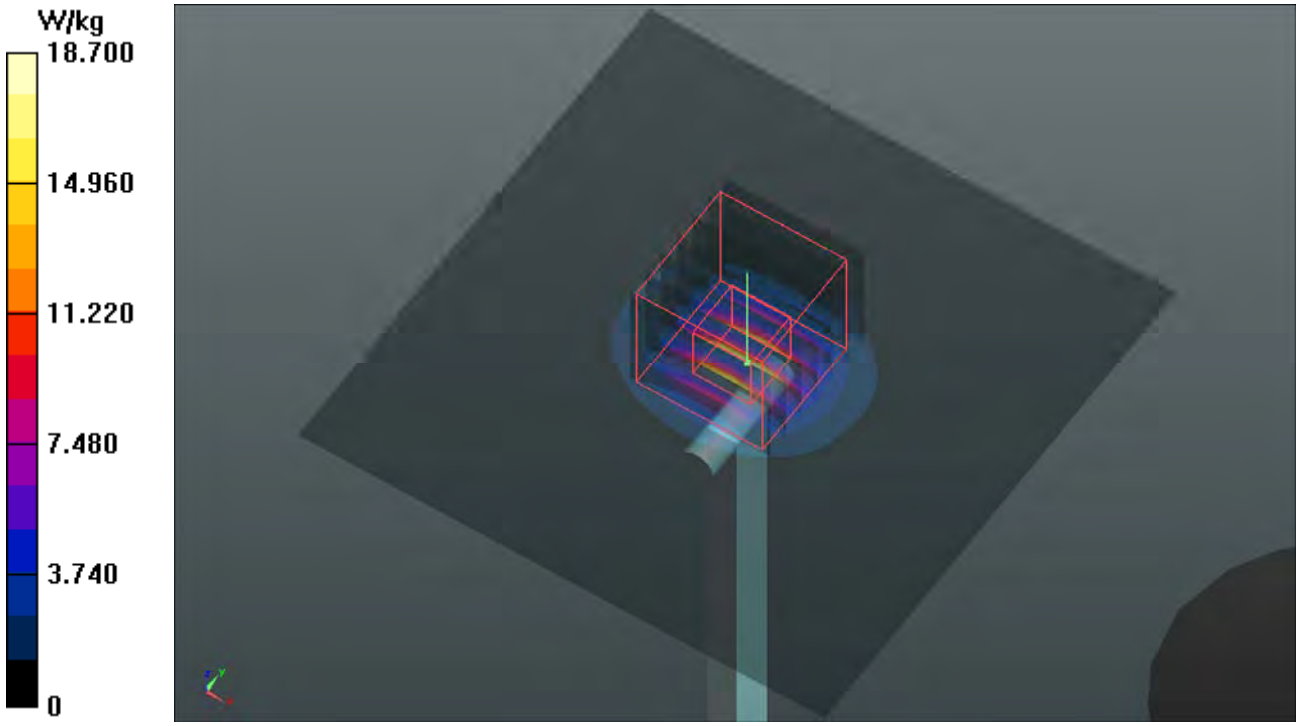
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: B34T60N3_0729 Medium parameters used: f = 5600 MHz; σ = 5.895 S/m; ε_r = 46.767; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(3.91, 3.91, 3.91); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- 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) = 18.7 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 65.97 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 34.5 W/kg
SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.24 W/kg
Maximum value of SAR (measured) = 20.1 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/21

System Check_B5800_160721

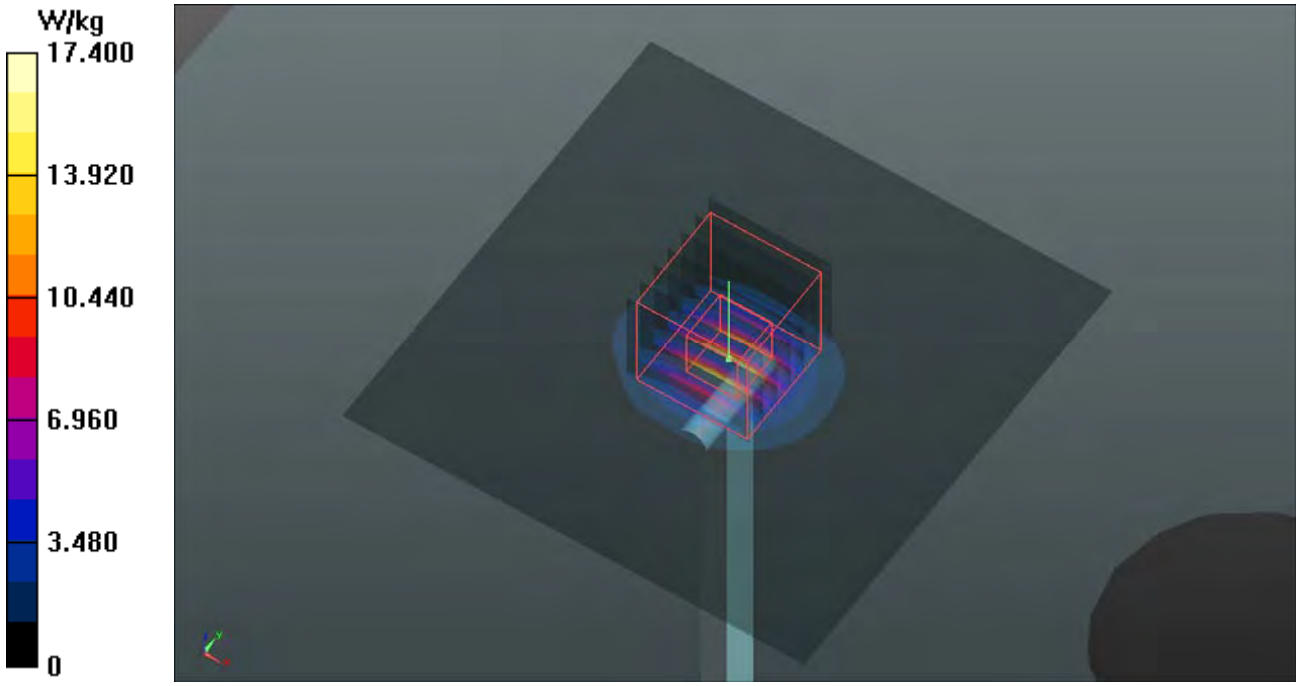
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium: B34T60N2_0721 Medium parameters used: f = 5800 MHz; σ = 5.726 S/m; ε_r = 48.988; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(3.9, 3.9, 3.9); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1485; Type: QD000P40;
- 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) = 17.4 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 67.63 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 31.1 W/kg
SAR(1 g) = 7.43 W/kg; SAR(10 g) = 2.09 W/kg
Maximum value of SAR (measured) = 19.2 W/kg



Appendix B. SAR Plots of SAR Measurement

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

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/27

P01 GSM850_GPRS12_Right Cheek_Ch251

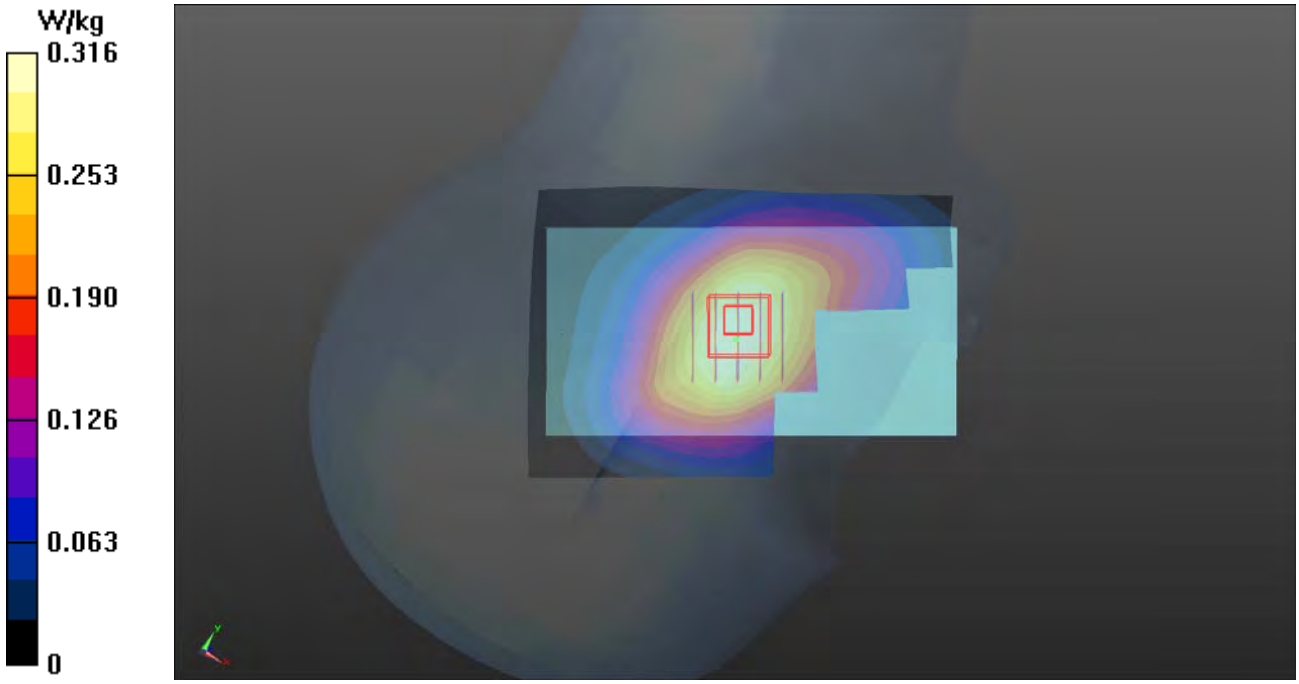
DUT: 160705C22

Communication System: GPRS12; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium: H07T10N3_0727 Medium parameters used: f = 849 MHz; σ = 0.915 S/m; ε_r = 42.903; ρ = 1000 kg/m^3
Ambient Temperature：24.1 ℃； Liquid Temperature：23.8 ℃

DASY5 Configuration:
- Probe: ET3DV6 - SN1790; ConvF(6.71, 6.71, 6.71); Calibrated: 2016/06/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.316 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.419 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.378 W/kg
SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.221 W/kg
Maximum value of SAR (measured) = 0.312 W/kg



P02 GSM1900_GPRS12_Right Chek_Ch661

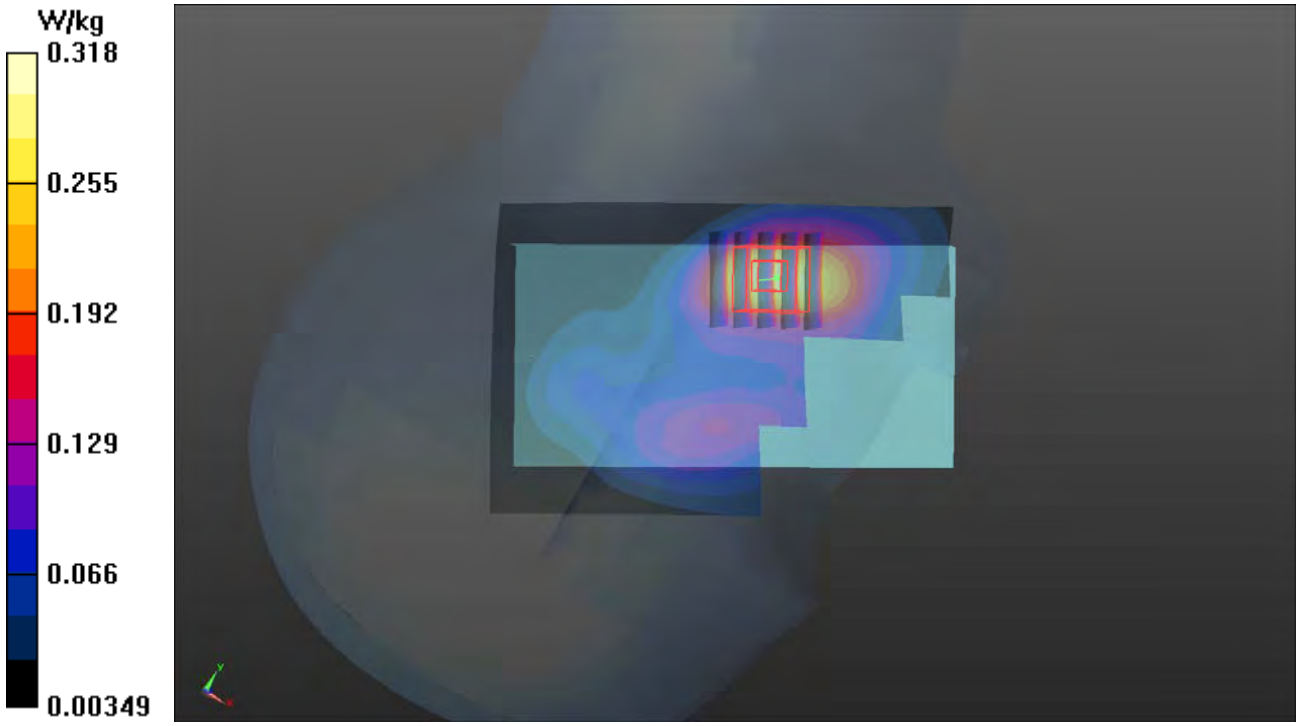
DUT: 160705C22

Communication System: GPRS12; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium: H16T20N2_0723 Medium parameters used: f = 1880 MHz; σ = 1.437 S/m; ε_r = 40.033; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(8.17, 8.17, 8.17); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.299 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.373 W/kg
SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.142 W/kg
Maximum value of SAR (measured) = 0.318 W/kg



P03 WCDMA II_RMC12.2K_Left Chek_Ch9538

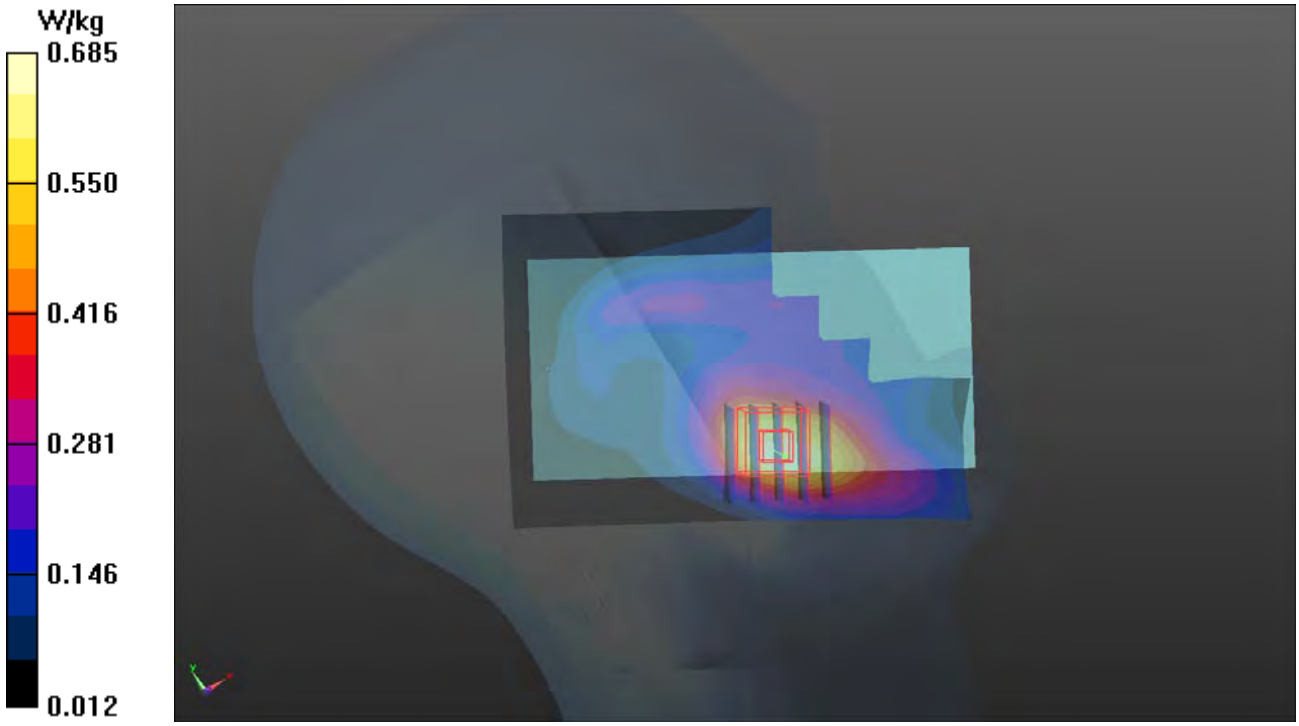
DUT: 160705C22

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: H16T20N2_0724 Medium parameters used: f = 1908 MHz; σ = 1.468 S/m; ε_r = 39.827; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(8.17, 8.17, 8.17); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.707 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.6210 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.807 W/kg
SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.305 W/kg
Maximum value of SAR (measured) = 0.685 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/24

P04 WCDMA V_RMC12.2K_Left Chek_Ch4233

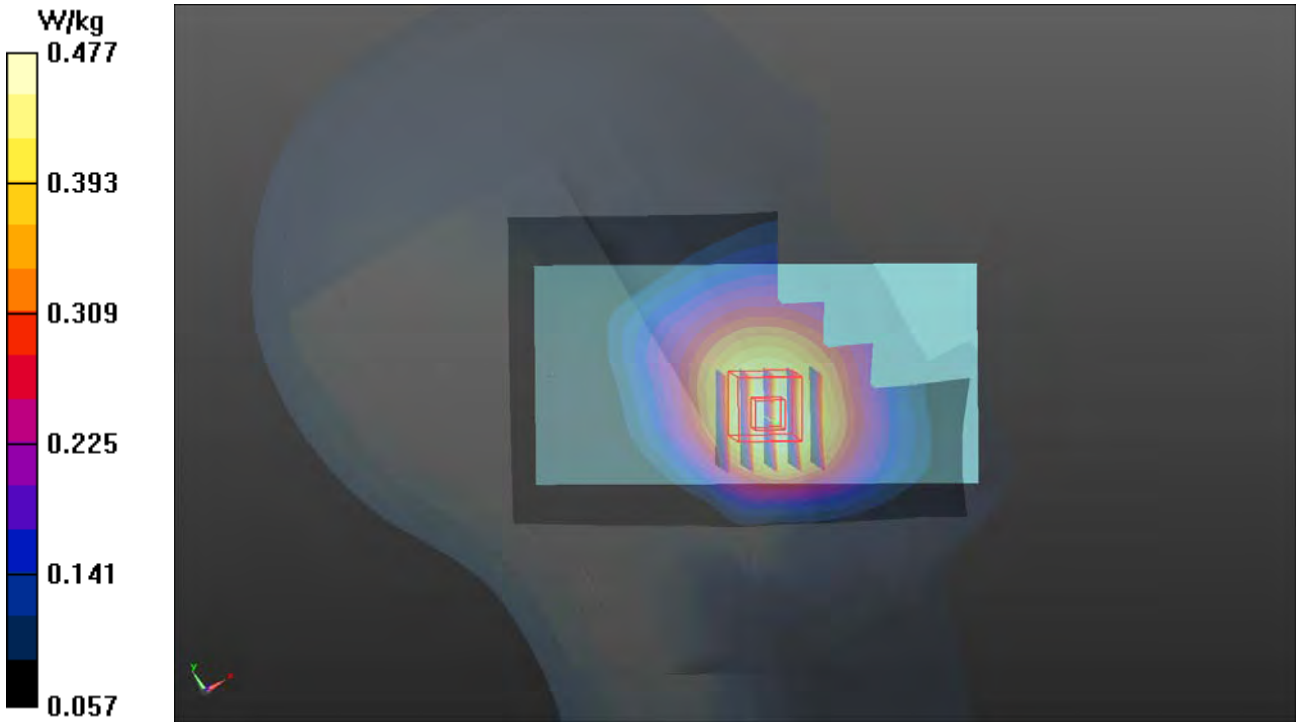
DUT: 160705C22

Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: H07T10N2_0724 Medium parameters used: f = 847 MHz; σ = 0.922 S/m; ε_r = 41.703; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(10.26, 10.26, 10.26); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.488 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.620 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.510 W/kg
SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.330 W/kg
Maximum value of SAR (measured) = 0.477 W/kg



P05 CDMA2000 BC0_RC3+SO55_Left Chek_Ch777

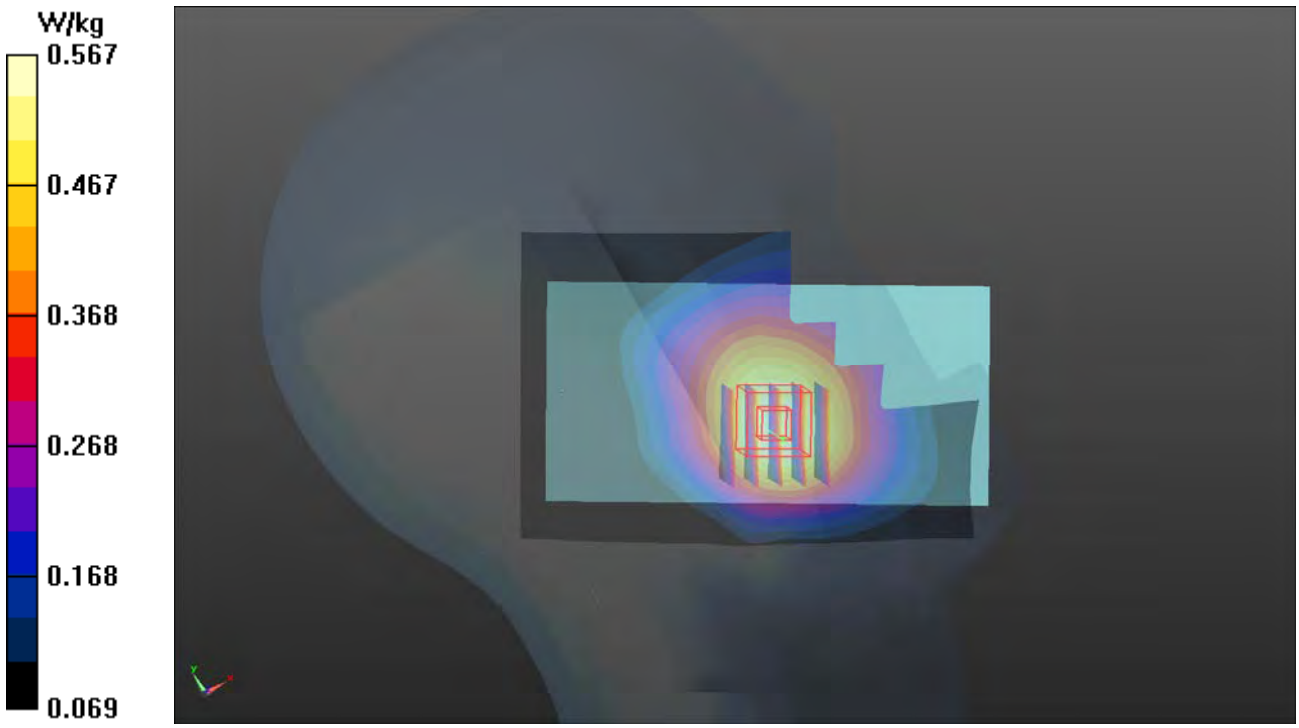
DUT: 160705C22

Communication System: CDMA2000; Frequency: 848.31 MHz;Duty Cycle: 1:1
Medium: H07T10N2_0724 Medium parameters used: f = 848.31 MHz; σ = 0.924 S/m; ε_r = 41.686; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(10.26, 10.26, 10.26); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.576 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.958 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.610 W/kg
SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.388 W/kg
Maximum value of SAR (measured) = 0.567 W/kg



P06 CDMA2000 BC1_RC3+SO55_Right Chek_Ch1175

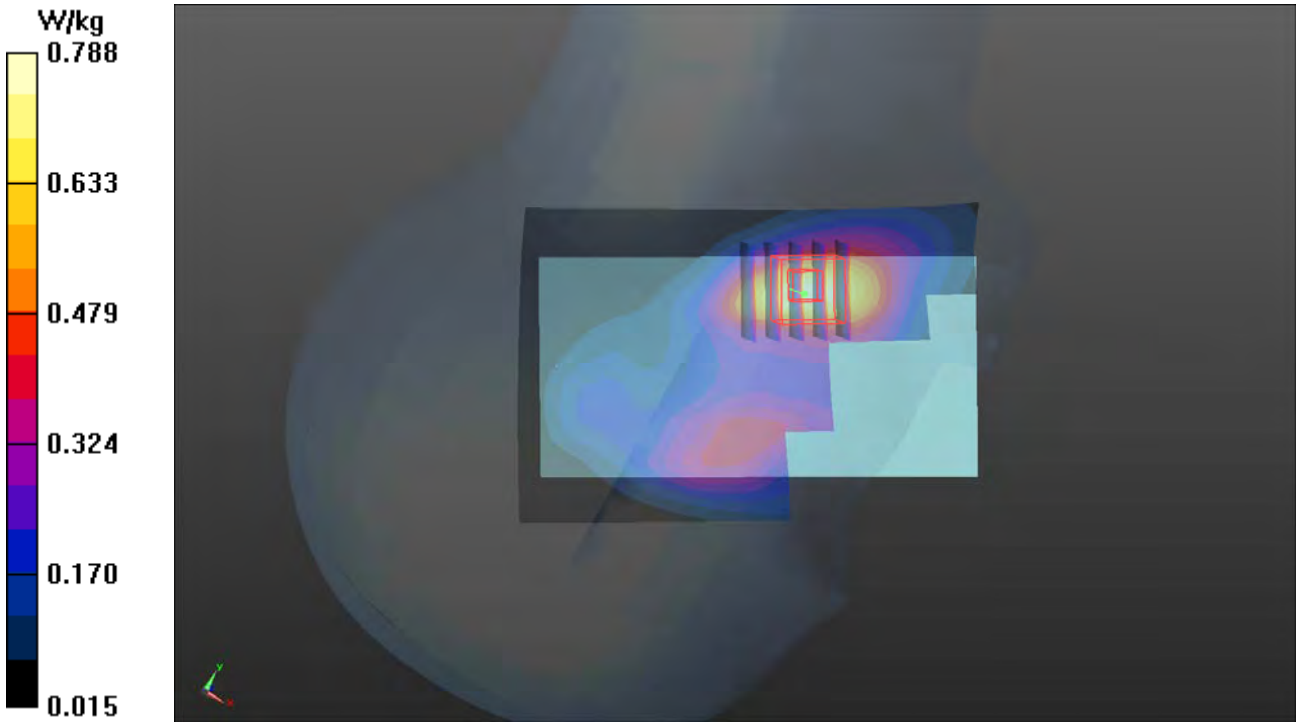
DUT: 160705C22

Communication System: CDMA2000; Frequency: 1908.75 MHz;Duty Cycle: 1:1
Medium: H16T20N2_0724 Medium parameters used: f = 1909 MHz; σ = 1.47 S/m; ε_r = 39.821; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(8.17, 8.17, 8.17); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.767 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.996 W/kg
SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.358 W/kg
Maximum value of SAR (measured) = 0.788 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/24

P07 CDMA2000 BC10_RC3+SO55_Left Chek_Ch684

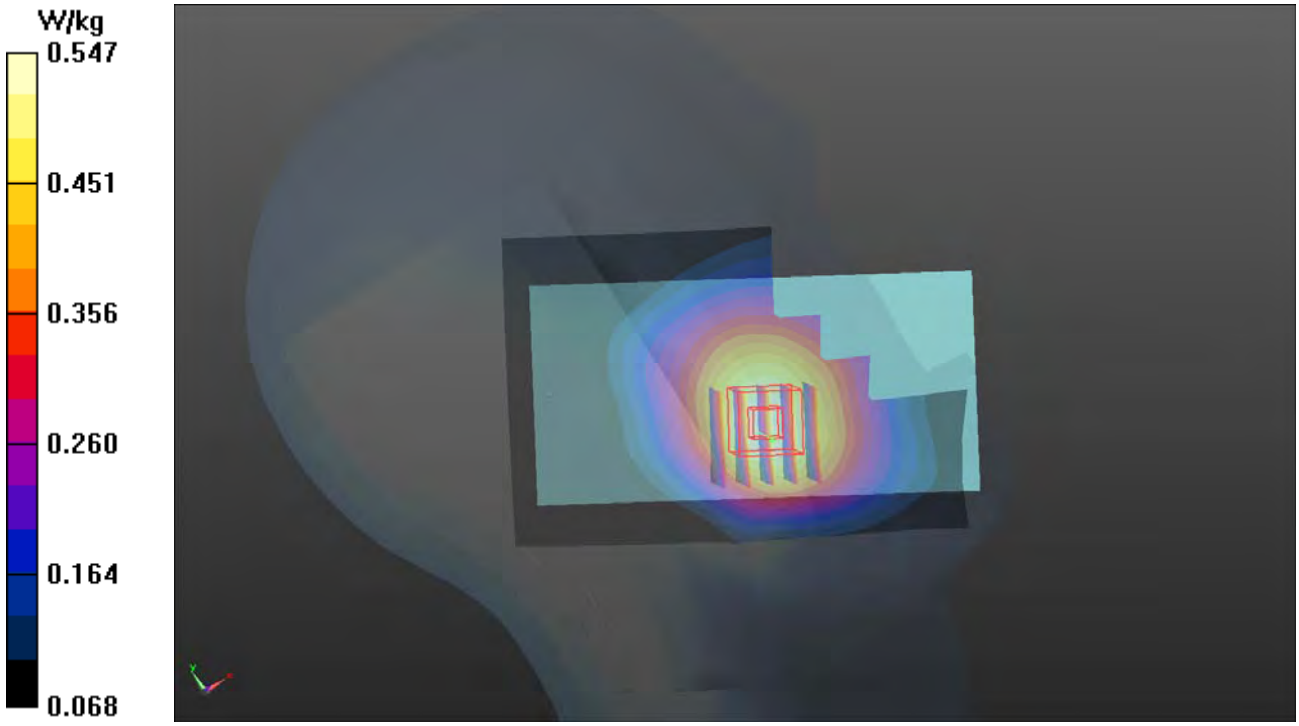
DUT: 160705C22

Communication System: CDMA2000; Frequency: 823.1 MHz;Duty Cycle: 1:1
Medium: H07T10N2_0724 Medium parameters used: f = 823.1 MHz; σ = 0.901 S/m; ε_r = 42.004; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(10.26, 10.26, 10.26); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.559 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.701 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.585 W/kg
SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.385 W/kg
Maximum value of SAR (measured) = 0.547 W/kg



P08 LTE 2_QPSK20M_Left Cheek_Ch18900_1RB_OS0

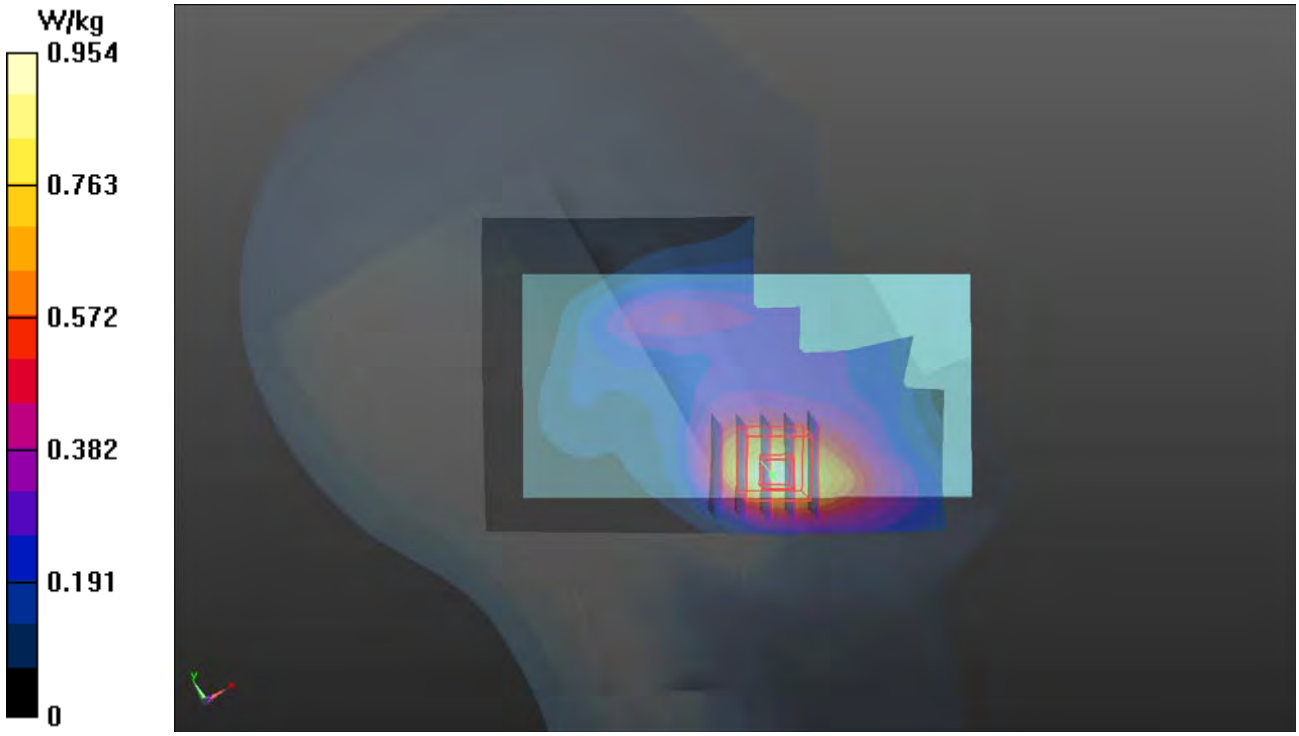
DUT: 160705C22

Communication System: LTE; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: H16T20N2_0723 Medium parameters used: f = 1880 MHz; σ = 1.437 S/m; ε_r = 40.033; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(8.17, 8.17, 8.17); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.954 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.06 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.428 W/kg
Maximum value of SAR (measured) = 0.968 W/kg



P09 LTE 4_QPSK20M_Left Cheek_Ch20300_1RB_OS0

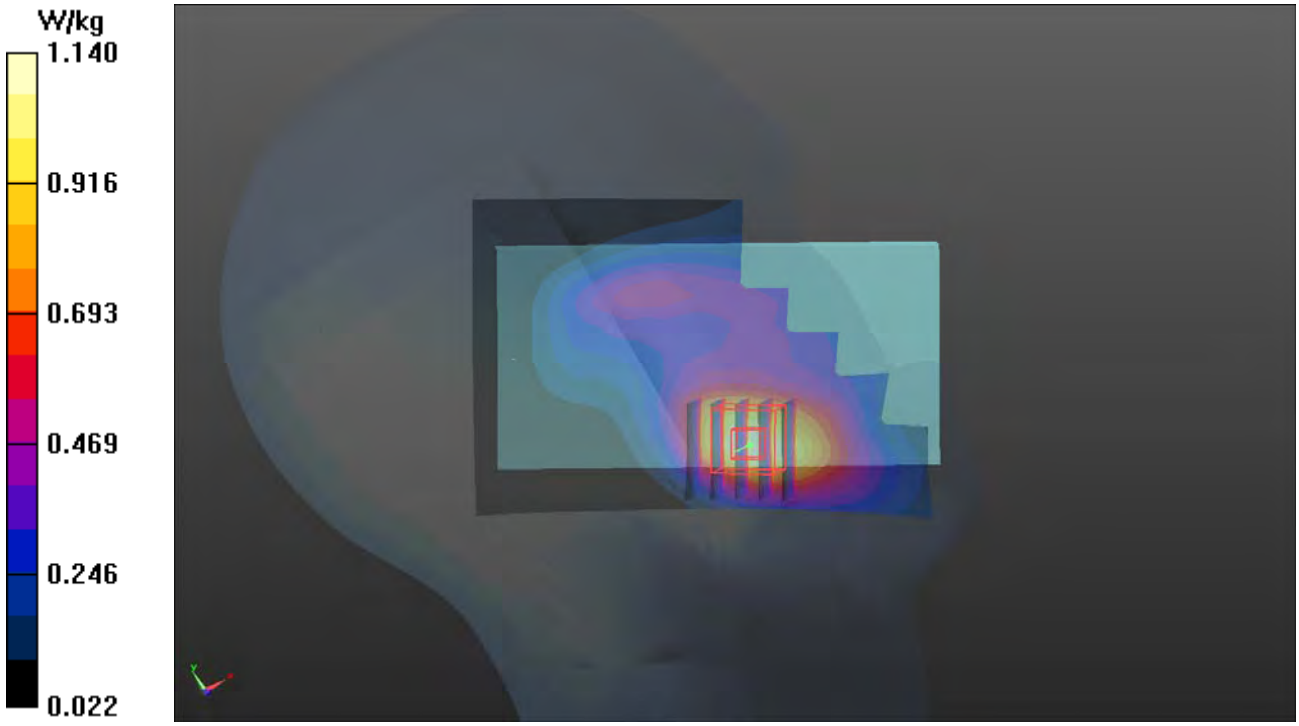
DUT: 160705C22

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: H16T20N2_0723 Medium parameters used: f = 1745 MHz; σ = 1.324 S/m; ε_r = 40.521; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(8.53, 8.53, 8.53); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.19 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.162 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.533 W/kg
Maximum value of SAR (measured) = 1.14 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/27

P10 LTE 5_QPSK10M_Right Cheek_Ch20525_1RB_OS0

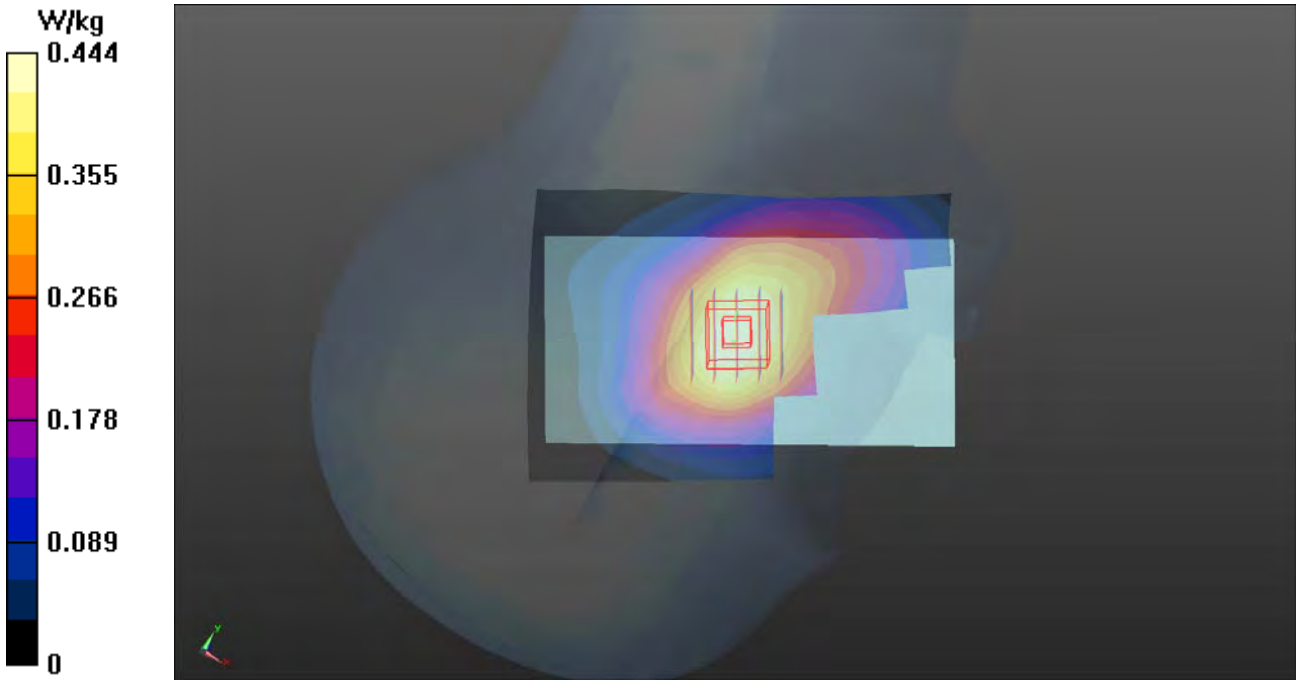
DUT: 160705C22

Communication System: LTE; Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: H07T10N3_0727 Medium parameters used: f = 836.5 MHz; σ = 0.903 S/m; ε_r = 43.034; ρ = 1000 kg/m^3
Ambient Temperature：24.1 ℃ ； Liquid Temperature：23.8 ℃

DASY5 Configuration:
- Probe: ET3DV6 - SN1790; ConvF(6.71, 6.71, 6.71); Calibrated: 2016/06/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.444 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.194 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.513 W/kg
SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.335 W/kg
Maximum value of SAR (measured) = 0.443 W/kg



P11 LTE 12_QPSK10M_Right Cheek_Ch23060_1RB_OS24

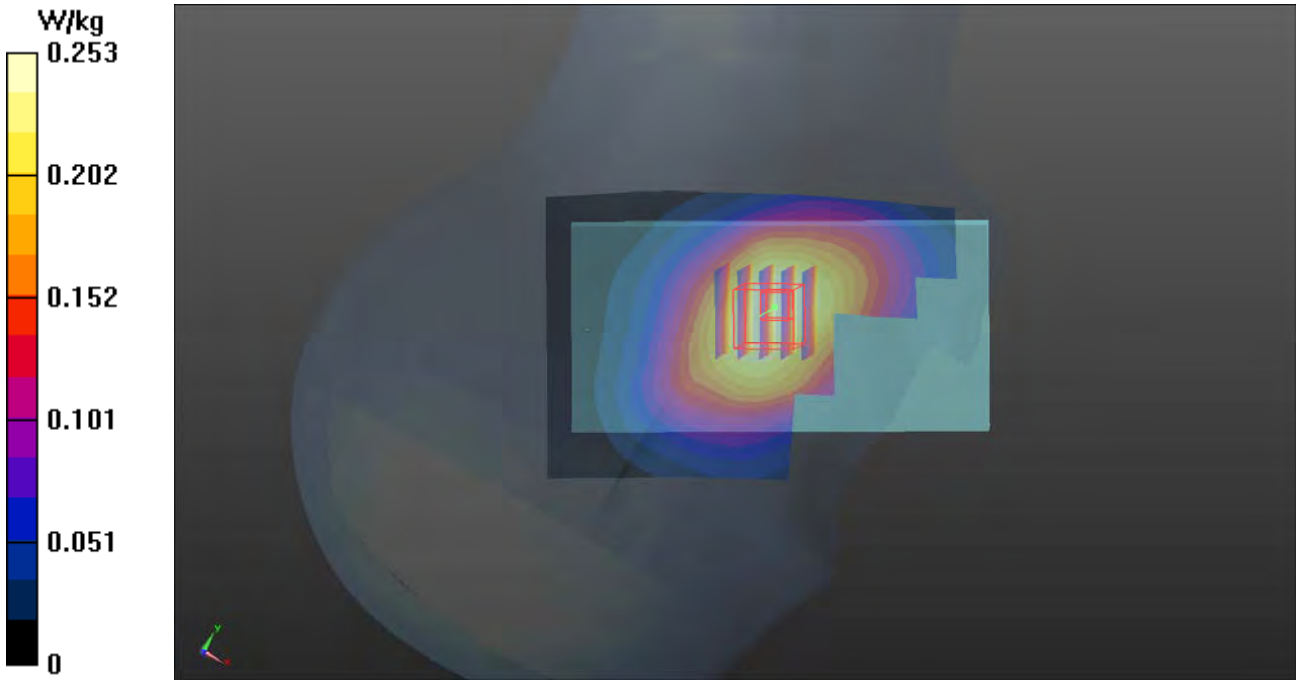
DUT: 160705C22

Communication System: LTE; Frequency: 704 MHz;Duty Cycle: 1:1
Medium: H06T09N1_0727 Medium parameters used: f = 704 MHz; σ = 0.853 S/m; ε_r = 41.892; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: ET3DV6 - SN1790; ConvF(7.03, 7.03, 7.03); Calibrated: 2016/06/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2016/06/16
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.253 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.095 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.307 W/kg
SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.194 W/kg
Maximum value of SAR (measured) = 0.262 W/kg



P12 LTE 25_QPSK20M_Left Cheek_Ch26365_1RB_OS0

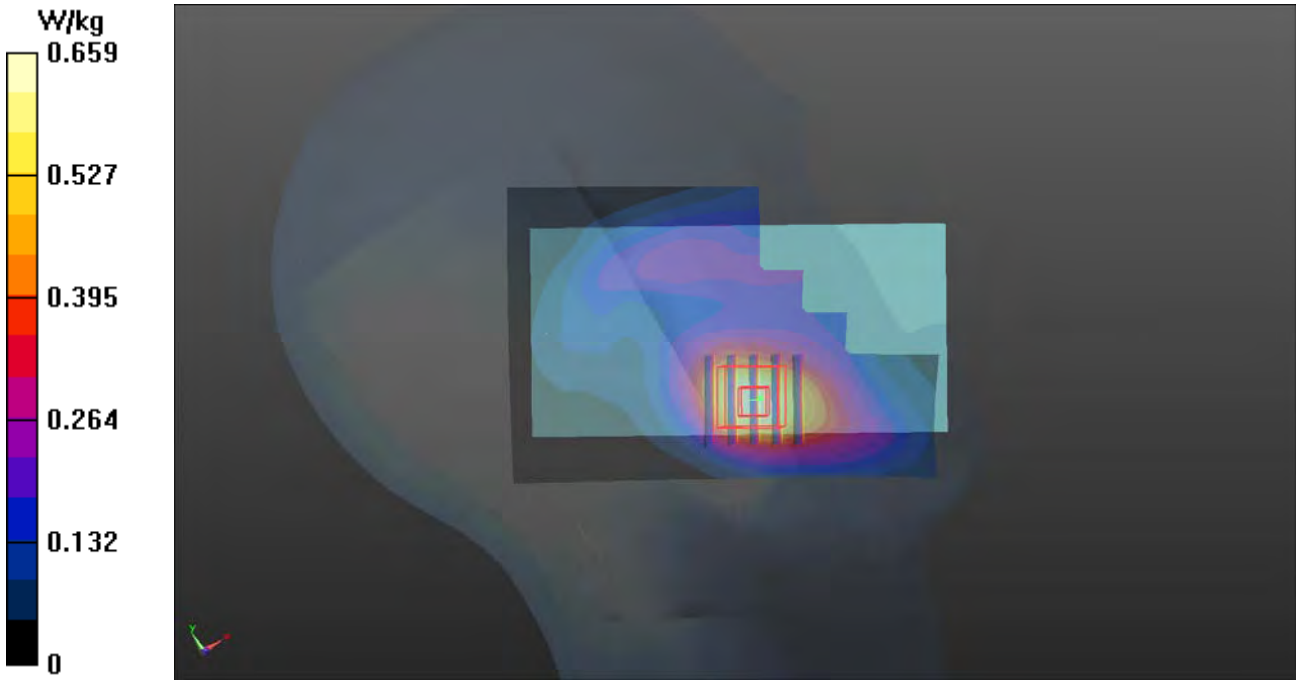
DUT: 160705C22

Communication System: LTE; Frequency: 1882.5 MHz;Duty Cycle: 1:1
Medium: H16T20N2_0728 Medium parameters used: f = 1882.5 MHz; σ = 1.442 S/m; ε_r = 40.442; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.15, 8.15, 8.15); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.659 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.527 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.639 W/kg; SAR(10 g) = 0.397 W/kg
Maximum value of SAR (measured) = 0.876 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/27

P13 LTE 26_QPSK15M_Left Cheek_Ch26965_1RB_OS0

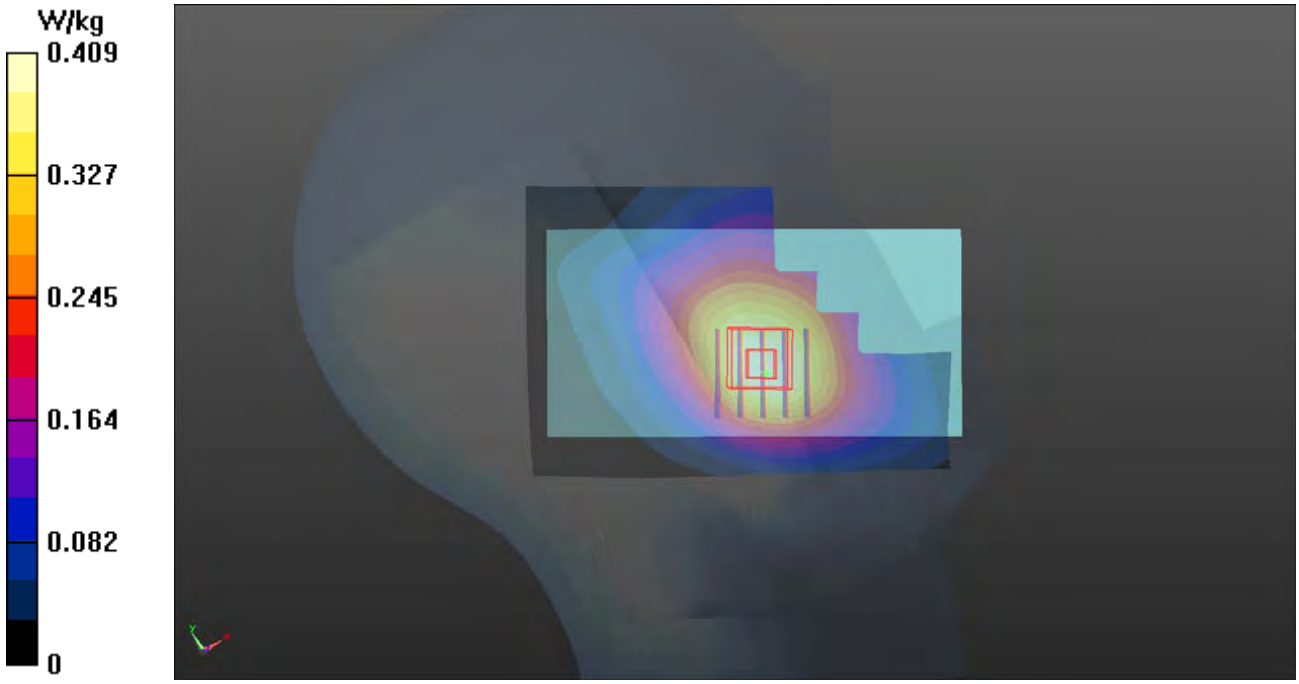
DUT: 160705C22

Communication System: LTE; Frequency: 841.5 MHz;Duty Cycle: 1:1
Medium: H07T10N3_0727 Medium parameters used: f = 841.5 MHz; σ = 0.908 S/m; ε_r = 42.979; ρ = 1000 kg/m^3
Ambient Temperature：24.1 ℃； Liquid Temperature：23.8 ℃

DASY5 Configuration:
- Probe: ET3DV6 - SN1790; ConvF(6.71, 6.71, 6.71); Calibrated: 2016/06/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn393; Calibrated: 2016/01/12
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.409 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.146 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.499 W/kg
SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.303 W/kg
Maximum value of SAR (measured) = 0.416 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/23

P14 LTE 41_QPSK20M_Left Cheek_Ch40620_1RB_OS50

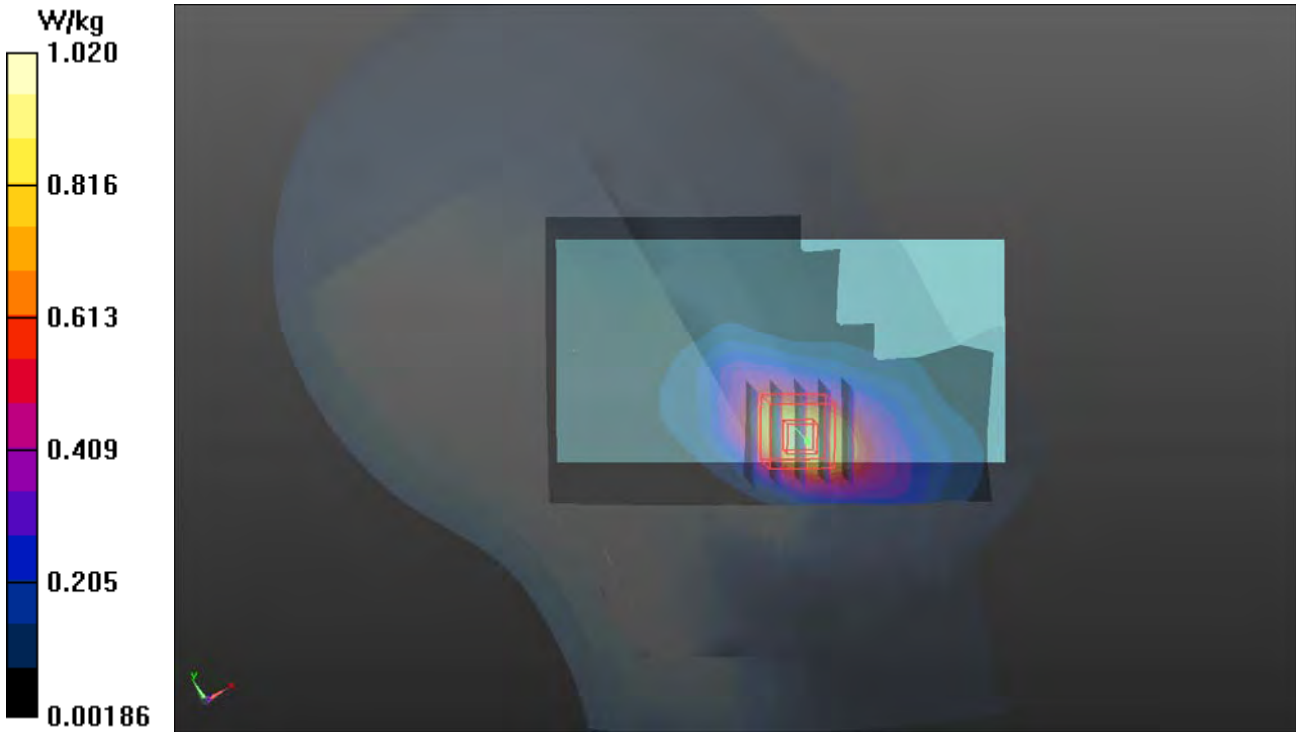
DUT: 160705C22

Communication System: LTE TDD CF0; Frequency: 2593 MHz;Duty Cycle: 1:1.58
Medium: H19T27N3_0723 Medium parameters used: f = 2593 MHz; σ = 2.017 S/m; ε_r = 39.168; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(7.16, 7.16, 7.16); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.958 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.88 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.341 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/23

P15 2.4G WLAN_802.11b_Right Cheek_Ch6

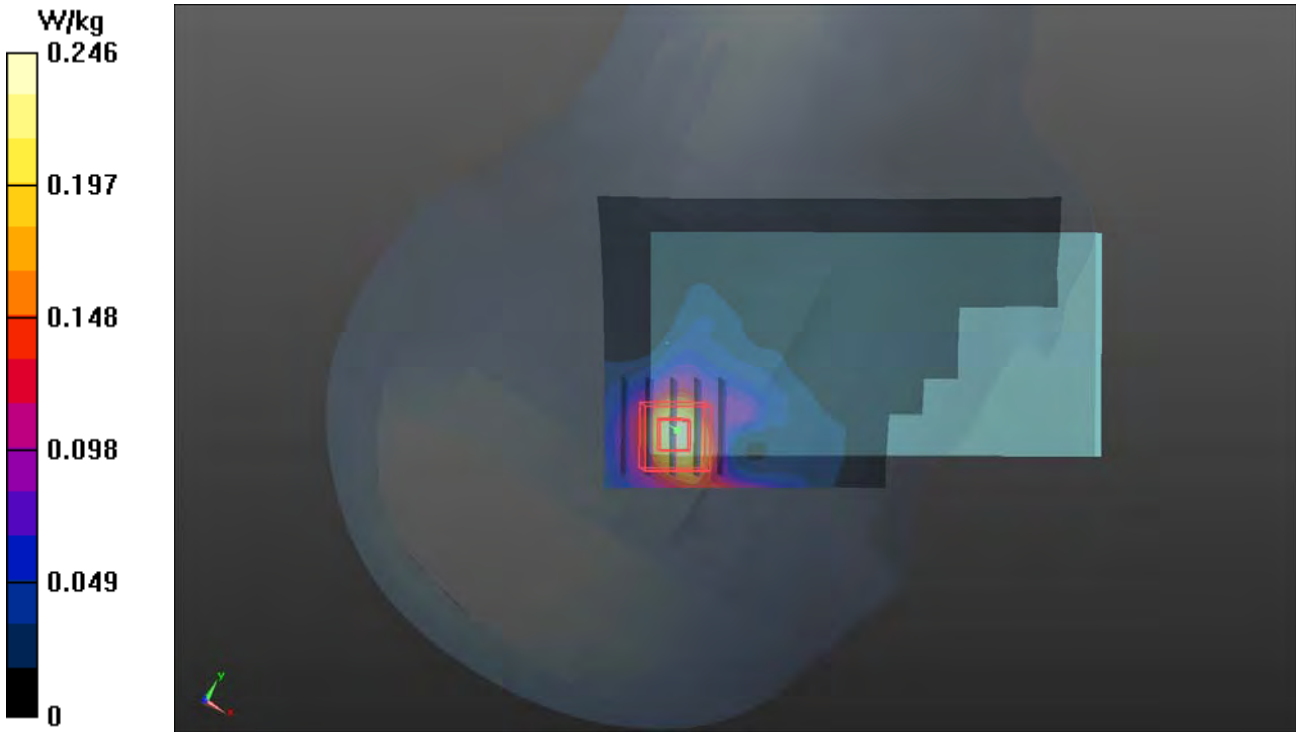
DUT: 160705C22

Communication System: WLAN_2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: H19T27N3_0723 Medium parameters used: f = 2437 MHz; σ = 1.858 S/m; ε_r = 39.732; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(7.36, 7.36, 7.36); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1652; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.246 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.977 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.290 W/kg
SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.074 W/kg
Maximum value of SAR (measured) = 0.237 W/kg



P16 5.3G WLAN_802.11a_Right Cheek_Ch60

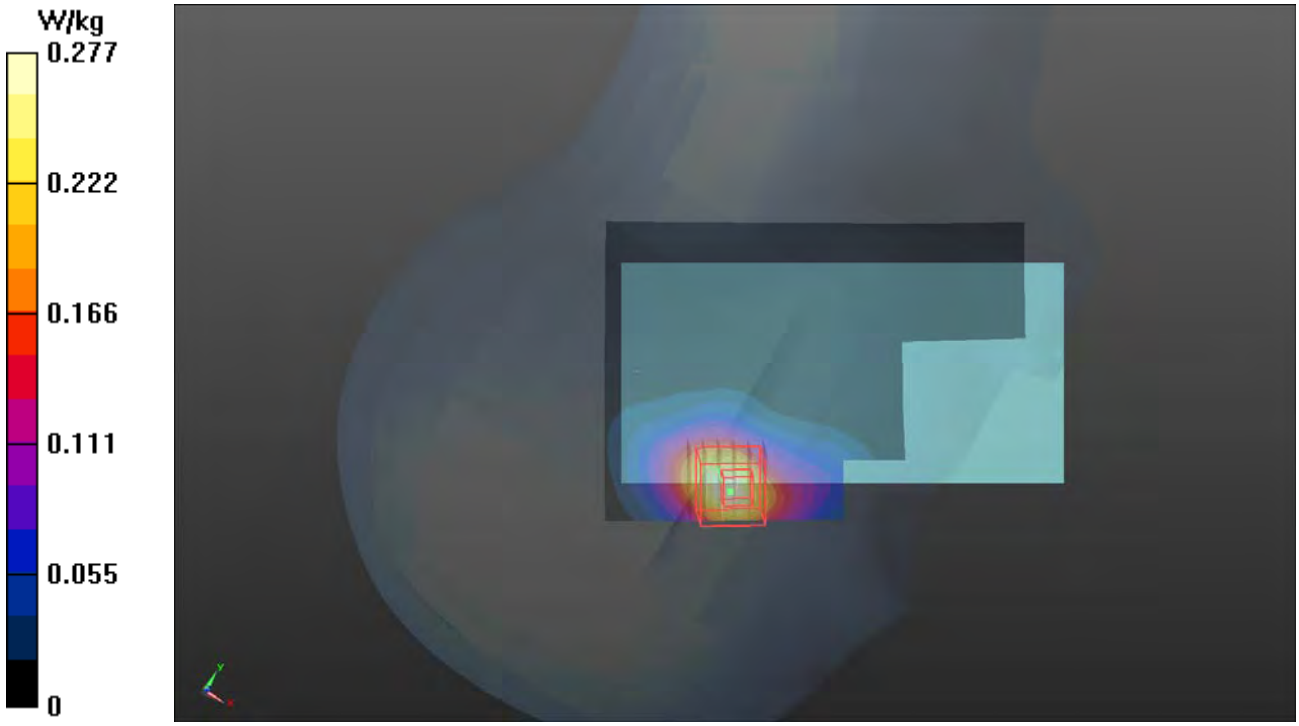
DUT: 160705C22

Communication System: WLAN_5G; Frequency: 5300 MHz;Duty Cycle: 1:1
Medium: H34T60N2_0729 Medium parameters used: f = 5300 MHz; σ = 4.567 S/m; ε_r = 36.336; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(5.25, 5.25, 5.25); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.277 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 0.7790 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.054 W/kg
Maximum value of SAR (measured) = 0.407 W/kg



P17 5.6G WLAN_802.11a_Right Cheek_Ch116

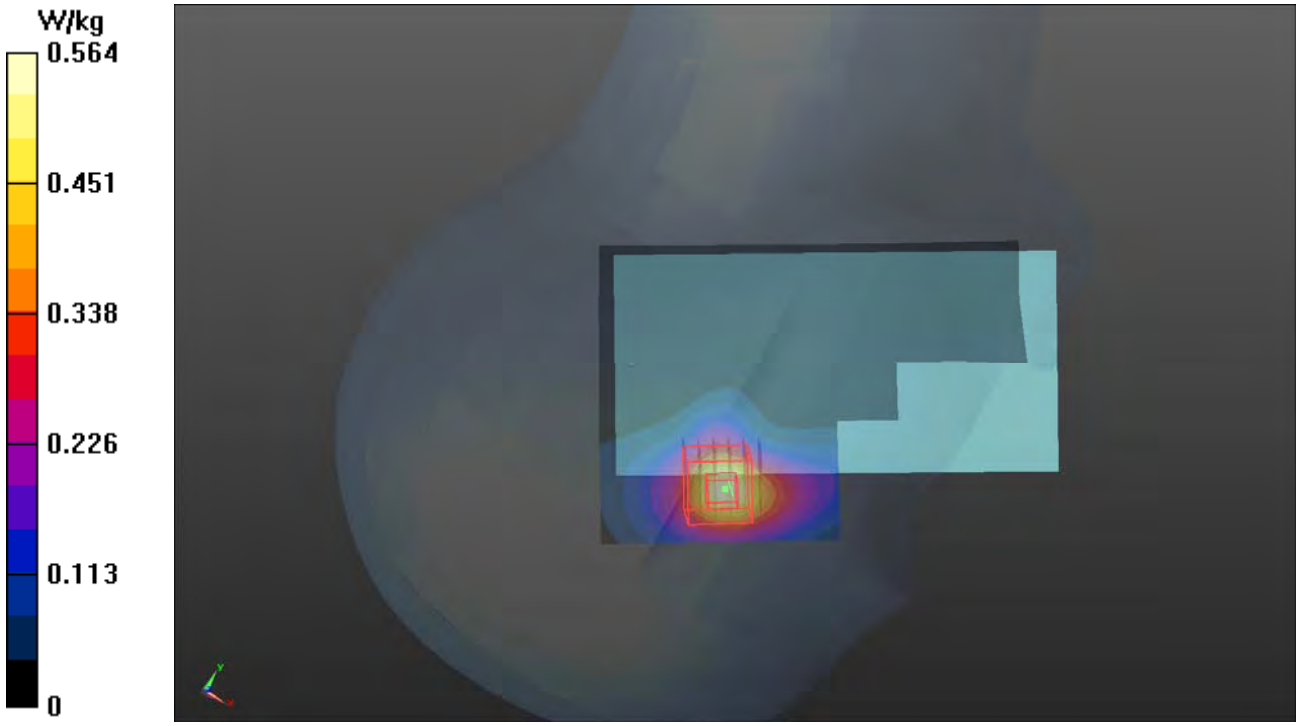
DUT: 160705C22

Communication System: WLAN_5G; Frequency: 5580 MHz;Duty Cycle: 1:1
Medium: H34T60N2_0729 Medium parameters used: f = 5580 MHz; σ = 4.9 S/m; ε_r = 35.816; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(4.52, 4.52, 4.52); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.564 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 0.6250 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.823 W/kg
SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.097 W/kg
Maximum value of SAR (measured) = 0.532 W/kg



P18 5.8G WLAN_802.11a_Right Cheek_Ch157

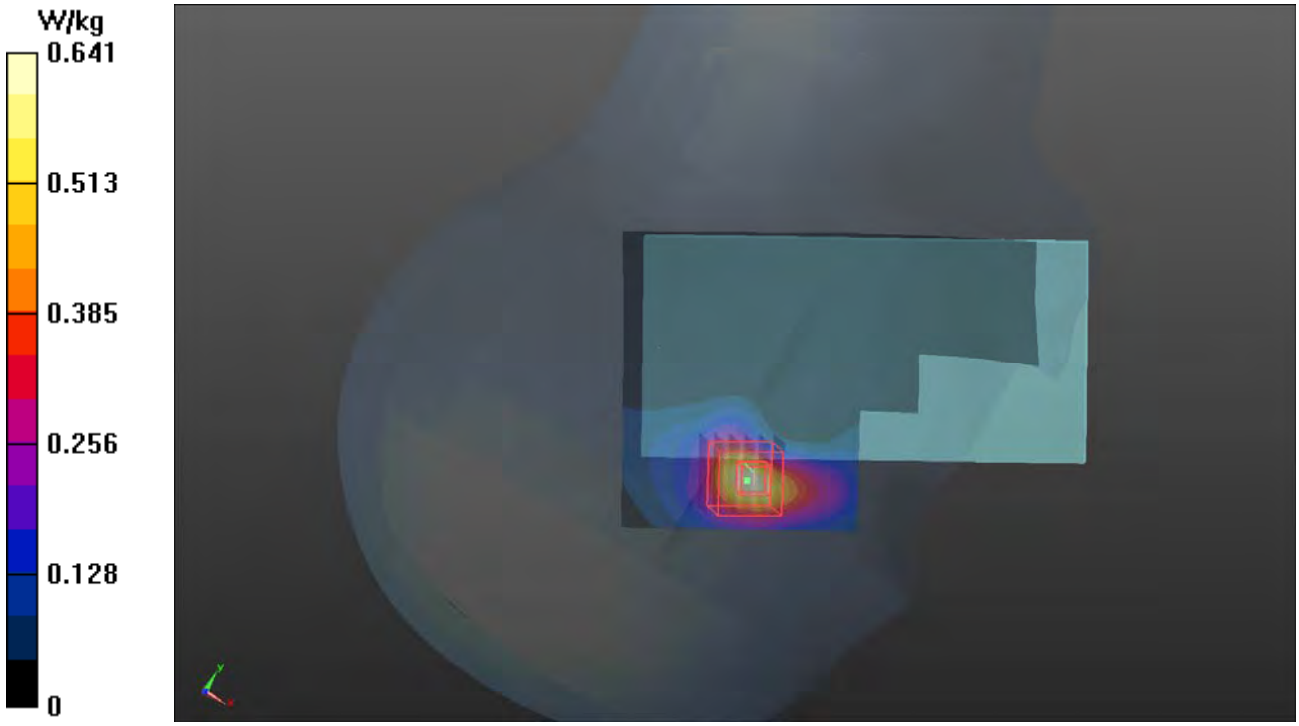
DUT: 160705C22

Communication System: WLAN_5G; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium: H34T60N2_0729 Medium parameters used: f = 5785 MHz; σ = 5.028 S/m; ε_r = 35.731; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(4.53, 4.53, 4.53); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.641 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 1.255 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.986 W/kg
SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.097 W/kg
Maximum value of SAR (measured) = 0.619 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/30

P19 GSM850_GPRS12_Front Face_1.5cm_Ch251

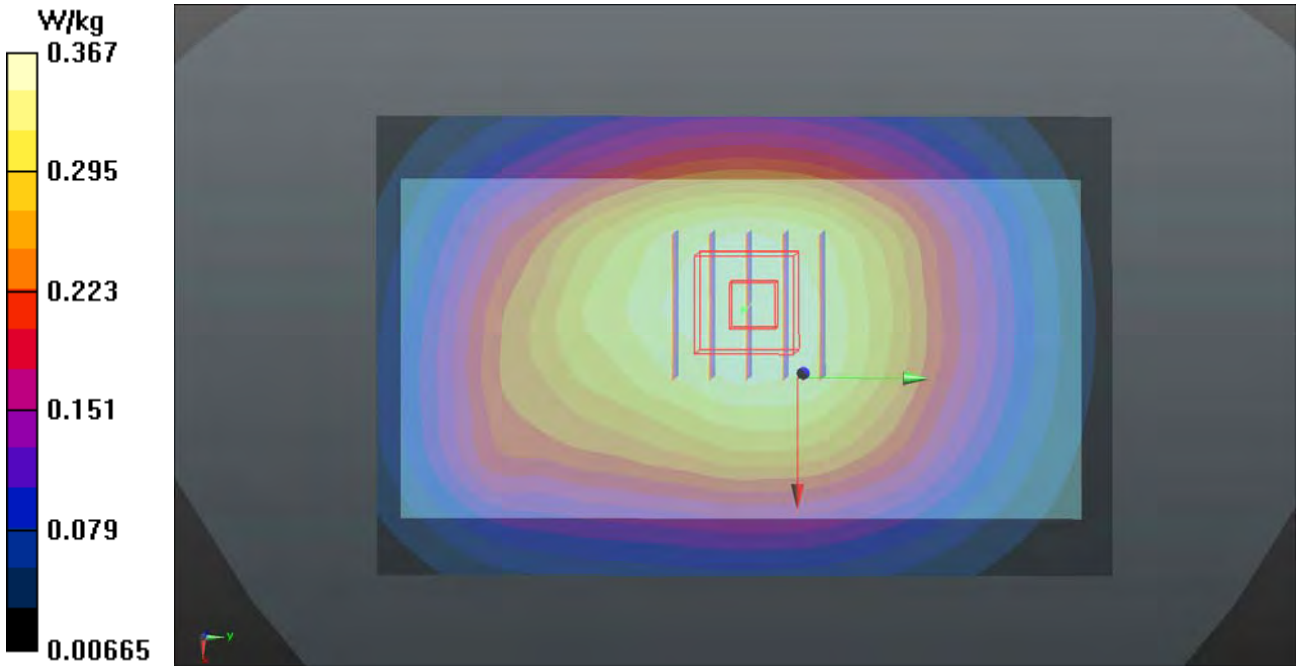
DUT: 160705C22

Communication System: GPRS12; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium: B07T10N3_0730 Medium parameters used: f = 849 MHz; σ = 1.028 S/m; ε_r = 54.667; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.367 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.940 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.391 W/kg
SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.230 W/kg
Maximum value of SAR (measured) = 0.358 W/kg



P20 GSM1900_GPRS12_Front Face_1.5cm_Ch661

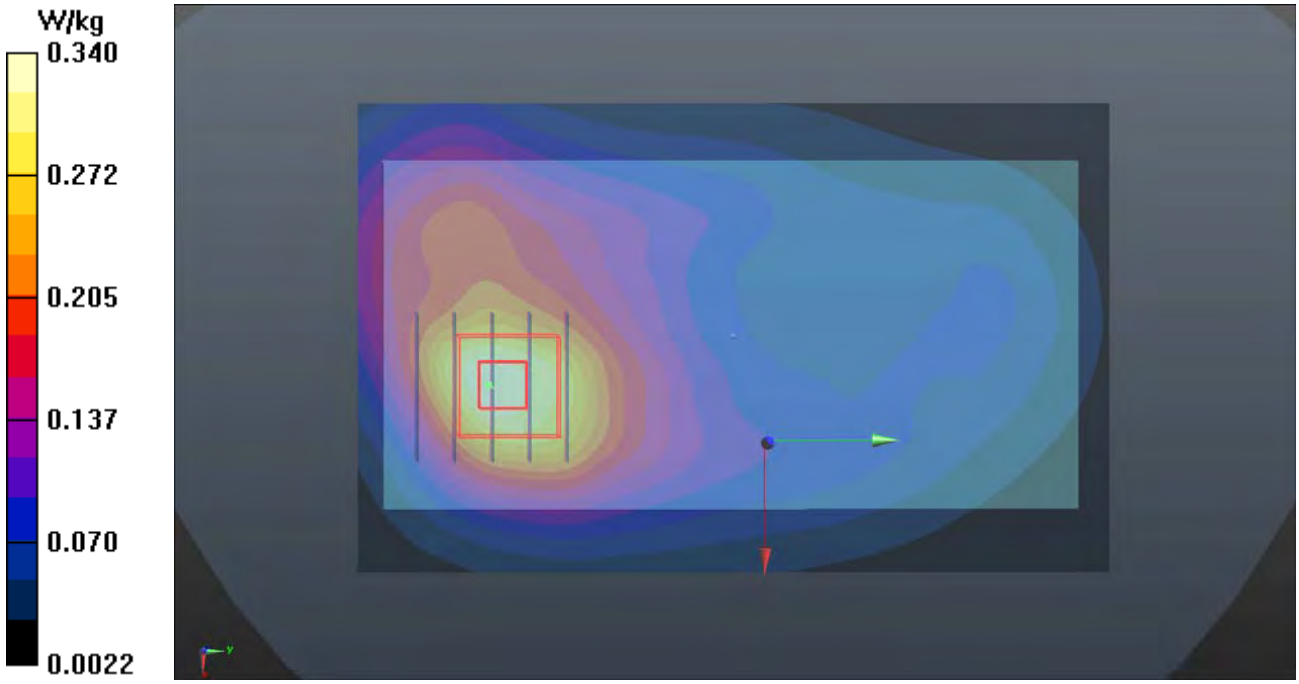
DUT: 160705C22

Communication System: GPRS12; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium: B16T20N1_0729 Medium parameters used: f = 1880 MHz; σ = 1.555 S/m; ε_r = 51.062; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.340 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.211 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.415 W/kg
SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.161 W/kg
Maximum value of SAR (measured) = 0.355 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/29

P21 WCDMA II_RMC12.2K_Front Face_1.5cm_Ch9538

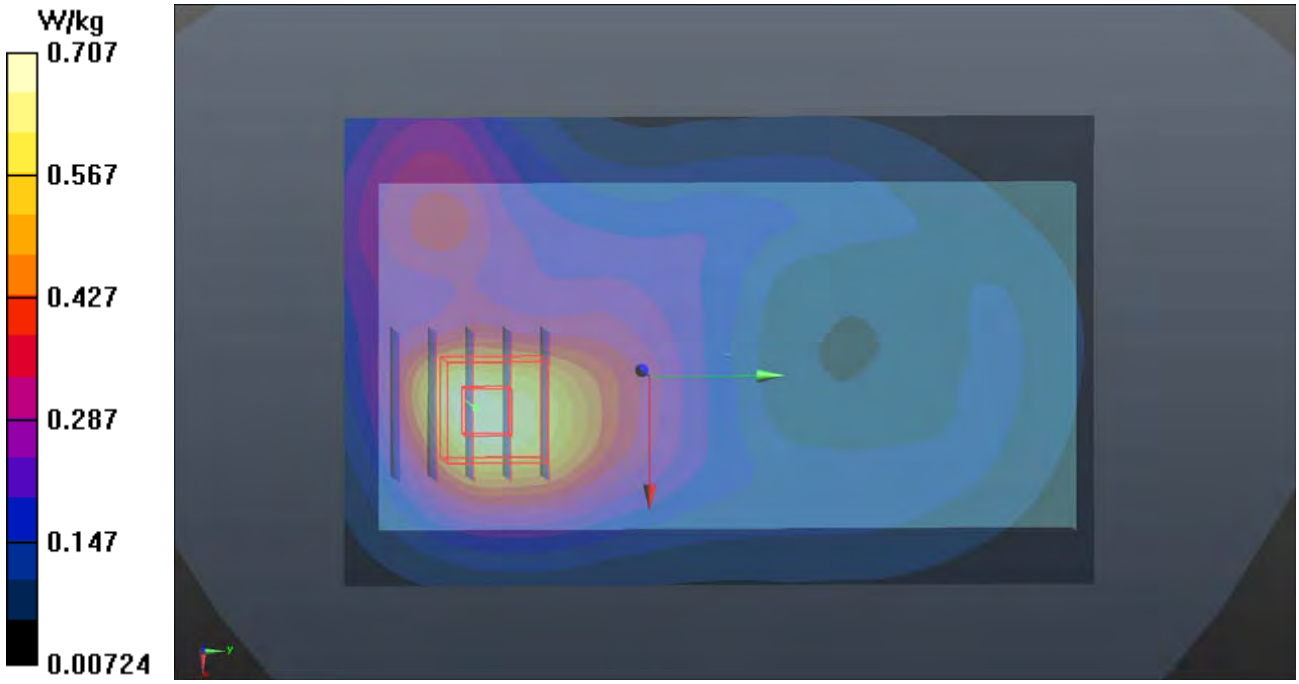
DUT: 160705C22

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: B16T20N1_0729 Medium parameters used: f = 1908 MHz; σ = 1.583 S/m; ε_r = 50.971; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.707 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.768 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.835 W/kg
SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.321 W/kg
Maximum value of SAR (measured) = 0.719 W/kg



P22 WCDMA V_RMC12.2K_Front Face_1.5cm_Ch4233

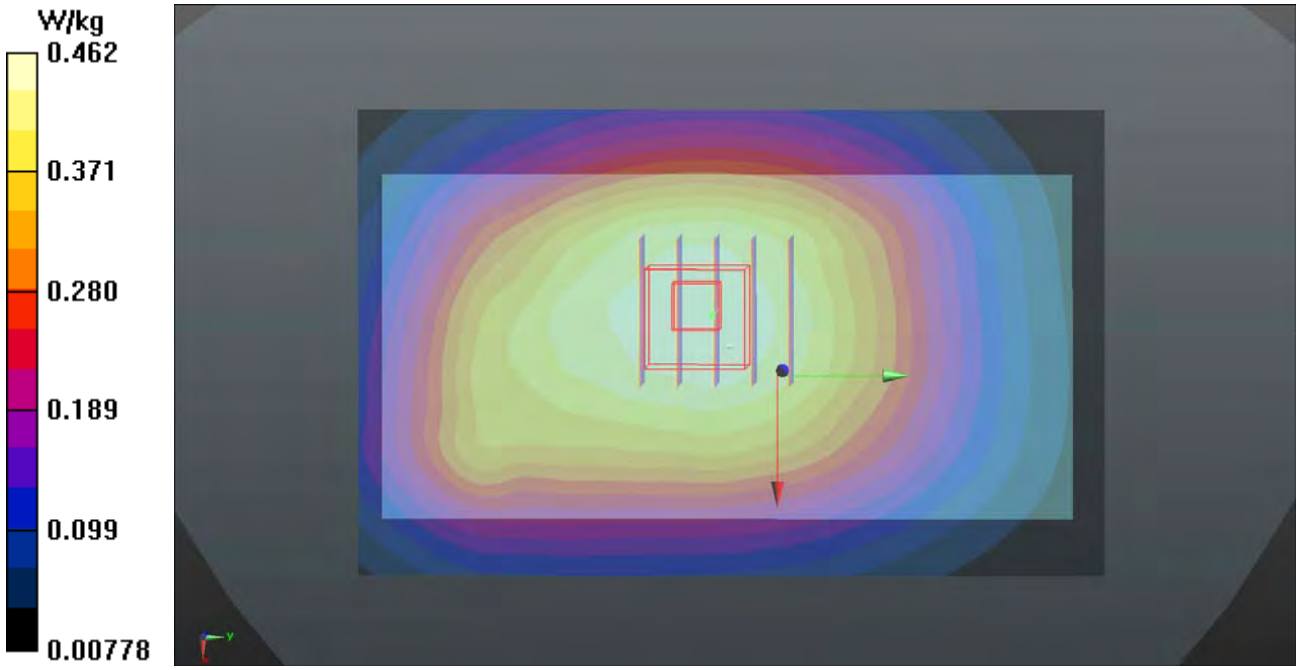
DUT: 160705C22

Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0730 Medium parameters used: f = 847 MHz; σ = 1.026 S/m; ε_r = 54.691; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.462 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.931 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.497 W/kg
SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.293 W/kg
Maximum value of SAR (measured) = 0.454 W/kg



P23 CDMA2000 BC0_RTAP153.6_Rear Face_1.5cm_Ch777

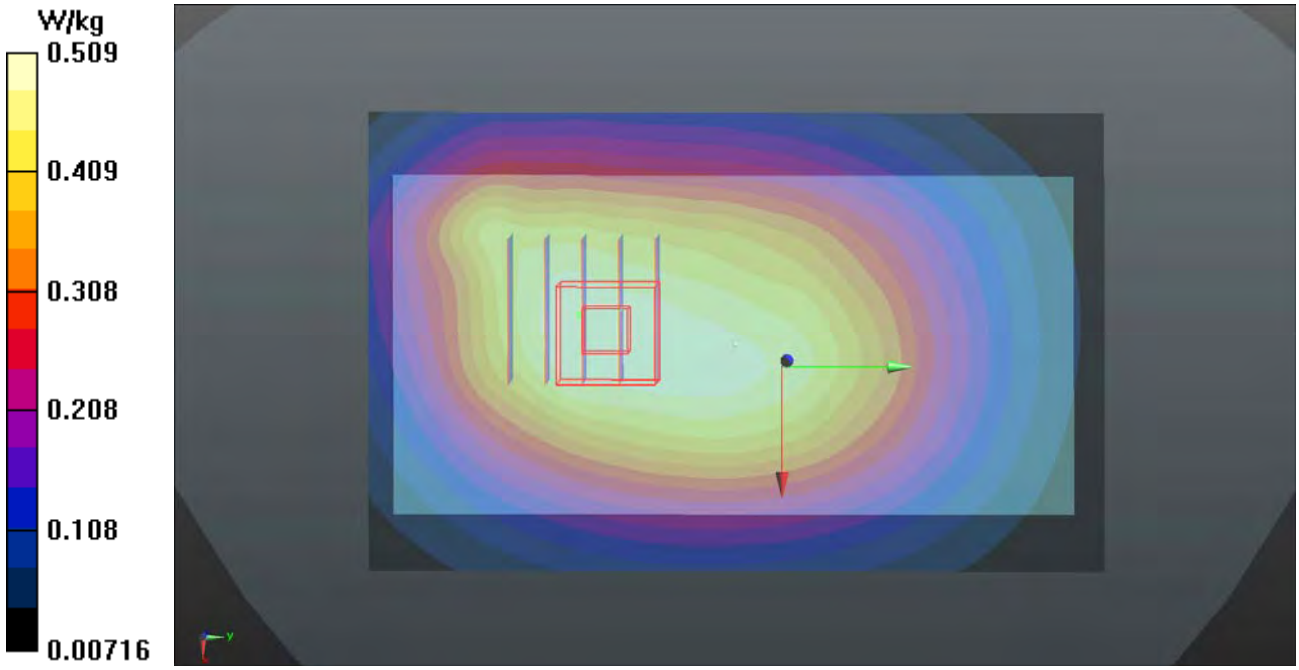
DUT: 160705C22

Communication System: CDMA2000 ; Frequency: 848.31 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0730 Medium parameters used: f = 848.31 MHz; σ = 1.027 S/m; ε_r = 54.673; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.509 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.898 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.559 W/kg
SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.320 W/kg
Maximum value of SAR (measured) = 0.513 W/kg



P24 CDMA2000 BC1_RTAP153.6_Front Face_1.5cm_Ch1175

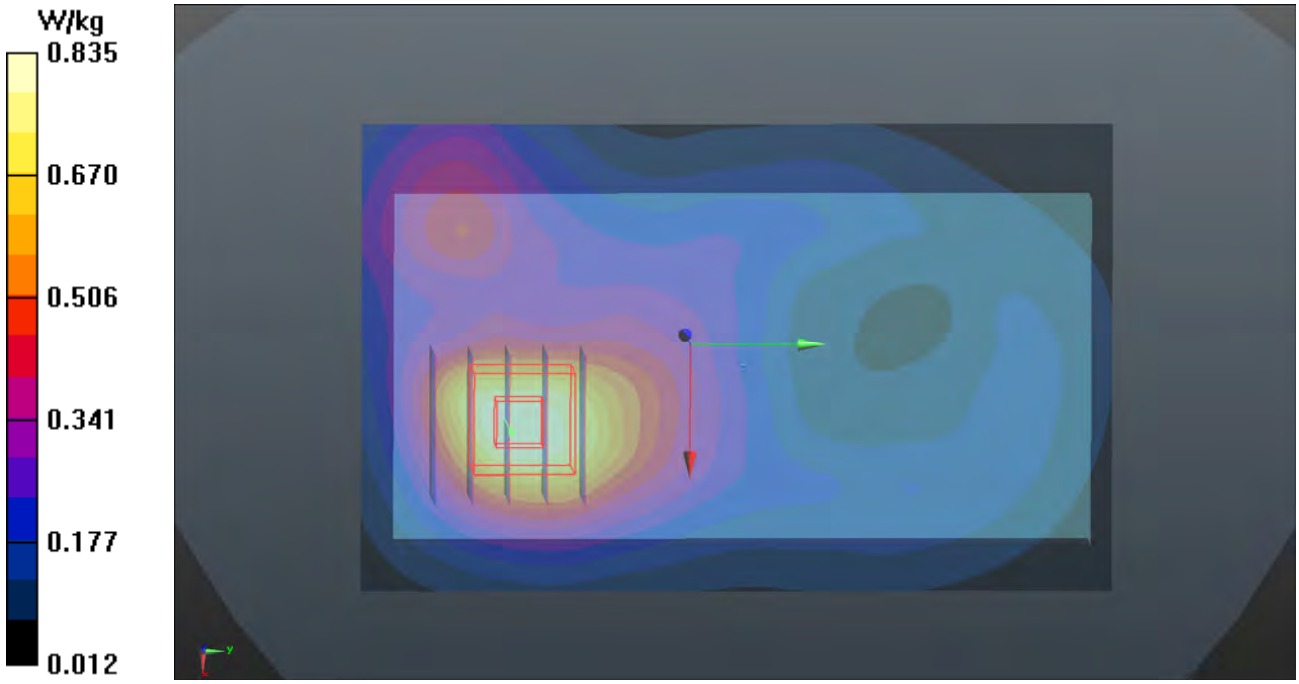
DUT: 160705C22

Communication System: CDMA2000; Frequency: 1908.75 MHz;Duty Cycle: 1:1
Medium: B16T20N1_0729 Medium parameters used: f = 1909 MHz; σ = 1.584 S/m; ε_r = 50.968; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.835 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.637 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 0.882 W/kg



P25 CDMA2000 BC10_RTAP153.6_Front Face_1.5cm_Ch684

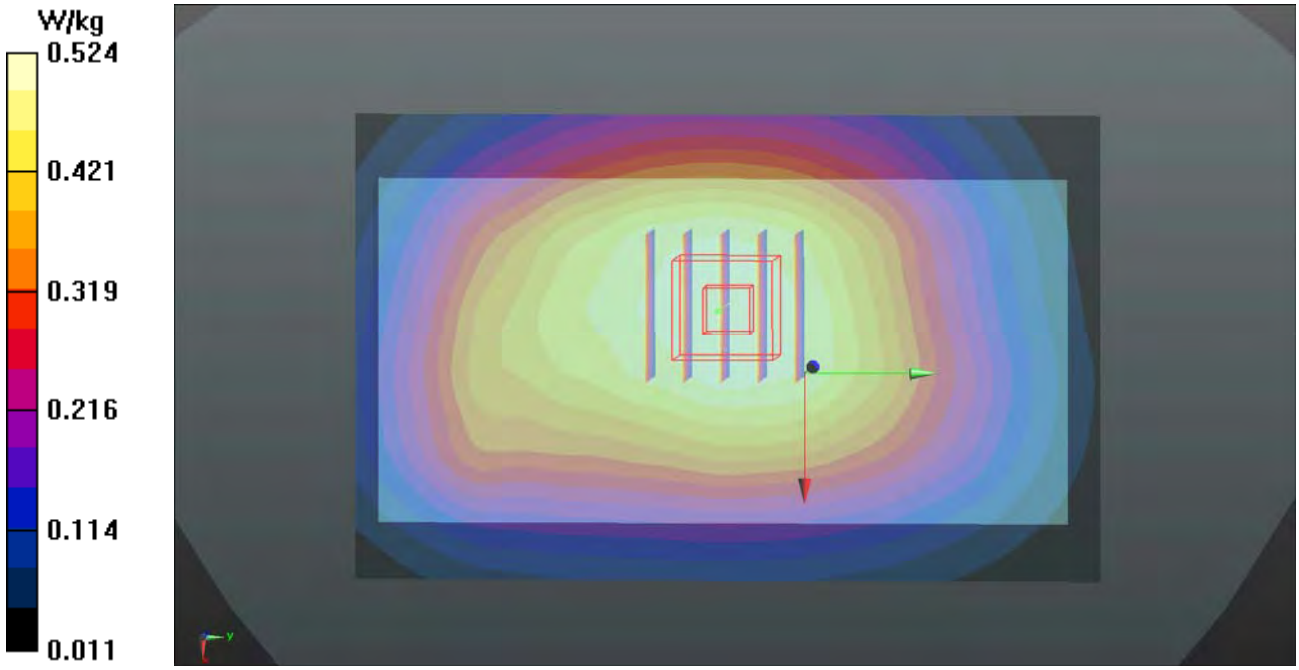
DUT: 160705C22

Communication System: CDMA2000 ; Frequency: 823.1 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0730 Medium parameters used: f = 823.1 MHz; σ = 1.002 S/m; ε_r = 54.924; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.524 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.365 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.562 W/kg
SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.336 W/kg
Maximum value of SAR (measured) = 0.518 W/kg



P26 LTE 2_QPSK20M_Front Face_1.5cm_Ch18900_1RB_OS0

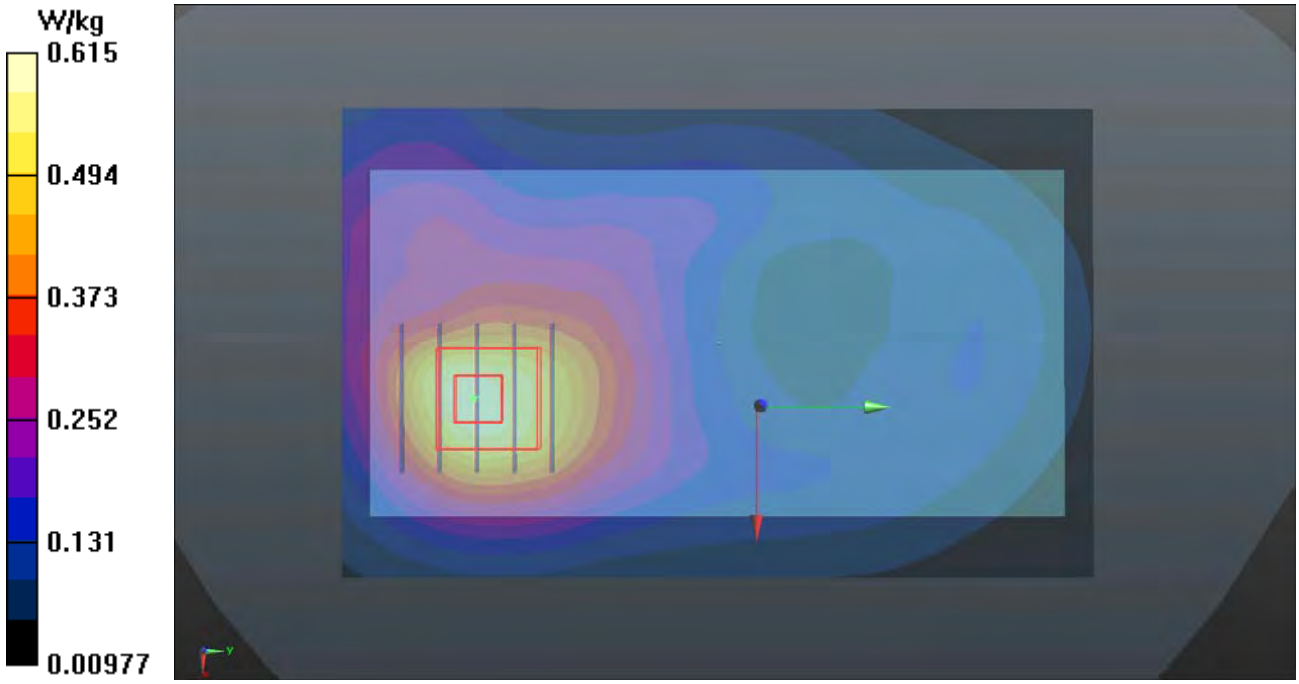
DUT: 160705C22

Communication System: LTE; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: B16T20N2_0728 Medium parameters used: f = 1880 MHz; σ = 1.561 S/m; ε_r = 50.907; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (51x81x1): Interpolated grid: dx=2.000 mm, dy=2.000 mm
Maximum value of SAR (interpolated) = 0.615 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.22 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.906 W/kg
SAR(1 g) = 0.571 W/kg; SAR(10 g) = 0.356 W/kg
Maximum value of SAR (measured) = 0.787 W/kg



P27 LTE 4_QPSK20M_Front Face_1.5cm_Ch20300_1RB_OS0

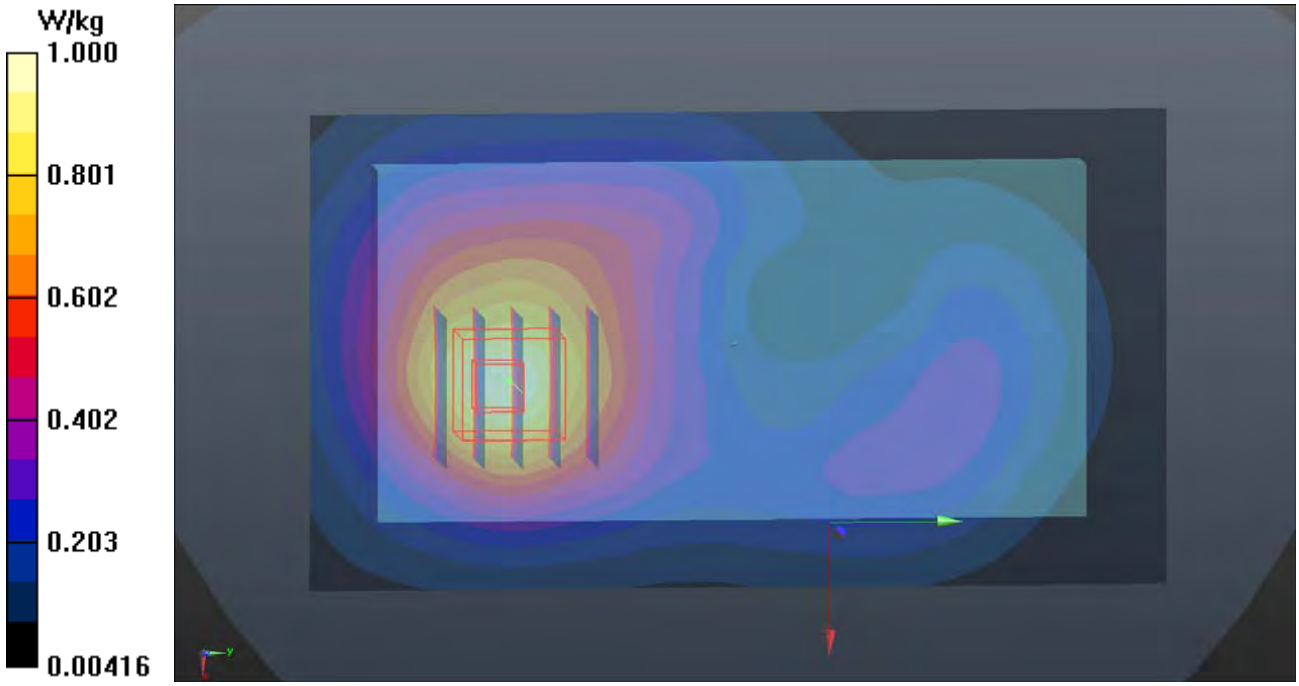
DUT: 160705C22

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: B16T20N2_0721 Medium parameters used: f = 1745 MHz; σ = 1.428 S/m; ε_r = 52.818; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.08, 8.08, 8.08); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.00 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.81 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.499 W/kg
Maximum value of SAR (measured) = 0.995 W/kg



P28 LTE 5_QPSK10M_Front Face_1.5cm_Ch20525_1RB_OS0

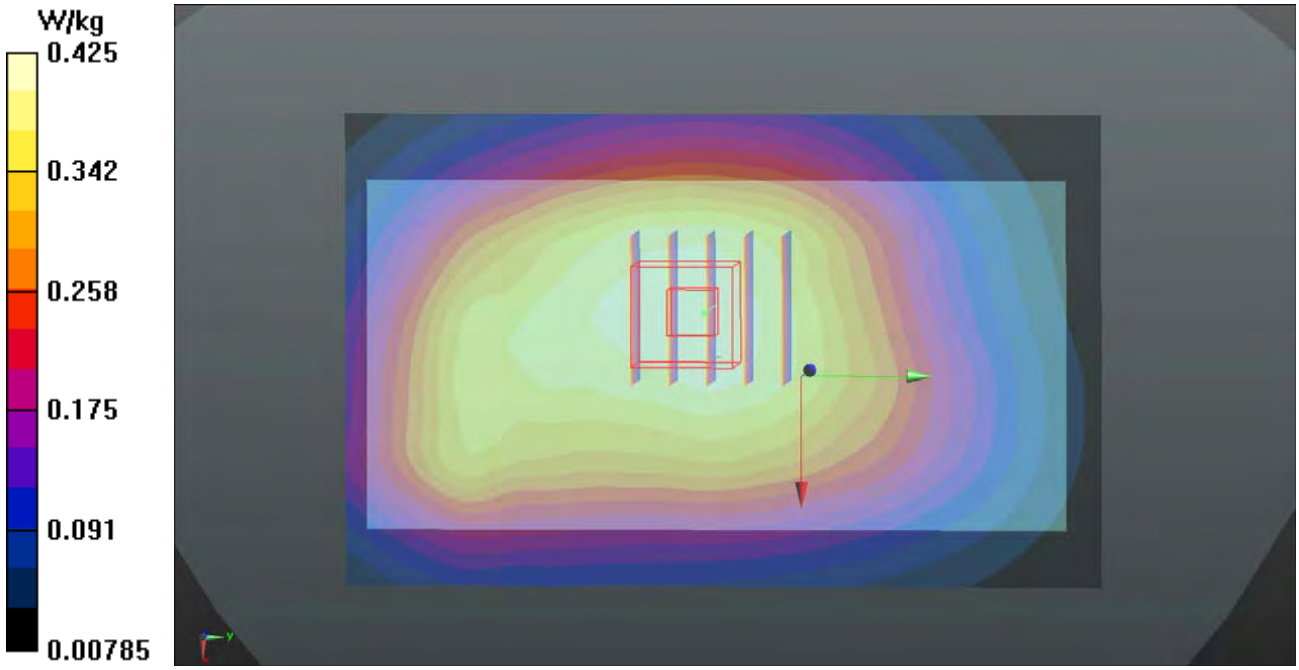
DUT: 160705C22

Communication System: LTE; Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0729 Medium parameters used: f = 836.5 MHz; σ = 1.002 S/m; ε_r = 55.283; ρ = 1000 kg/m^3
Ambient Temperature：23.8℃； Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.425 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.994 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.454 W/kg
SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.269 W/kg
Maximum value of SAR (measured) = 0.419 W/kg



P29 LTE 12_QPSK10M_Rear Face_1.5cm_Ch23060_1RB_OS24

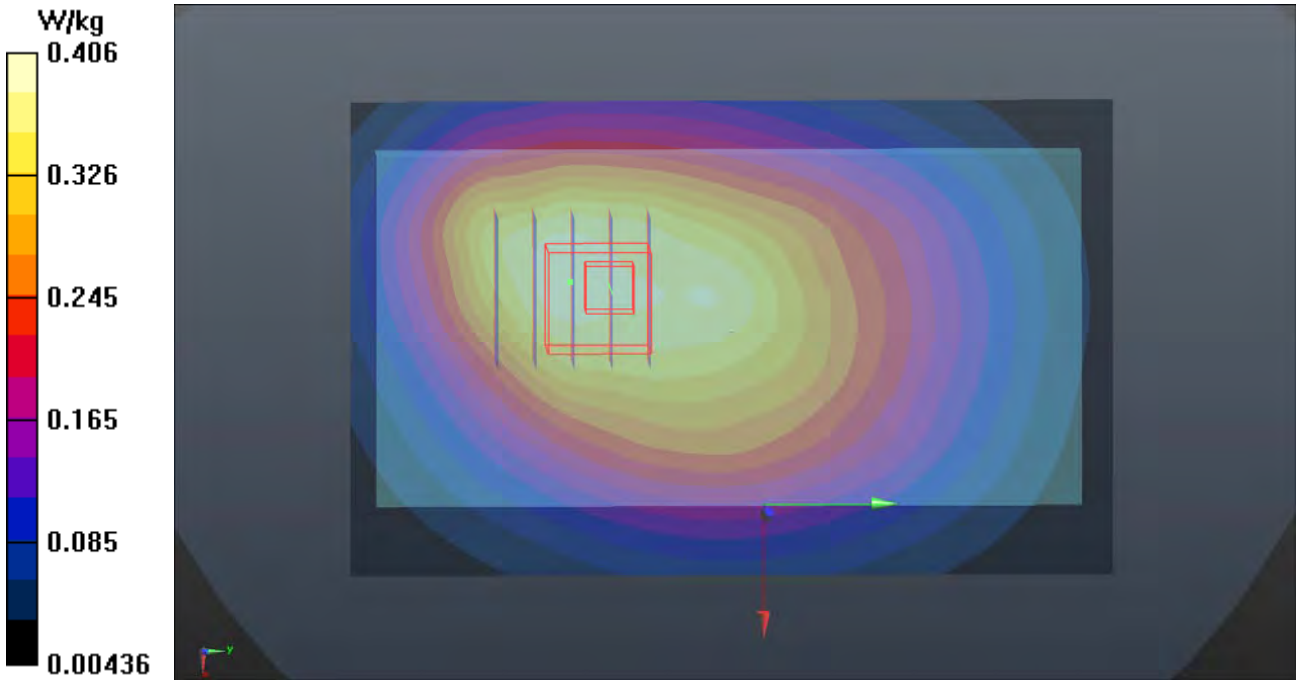
DUT: 160705C22

Communication System: LTE; Frequency: 704 MHz;Duty Cycle: 1:1
Medium: B06T09N1_0722 Medium parameters used: f = 704 MHz; σ = 0.917 S/m; ε_r = 56.866; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(10, 10, 10); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.406 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.849 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.445 W/kg
SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.243 W/kg
Maximum value of SAR (measured) = 0.406 W/kg



P30 LTE 25_QPSK20M_Rear Face_1.5cm_Ch26365_1RB_OS0

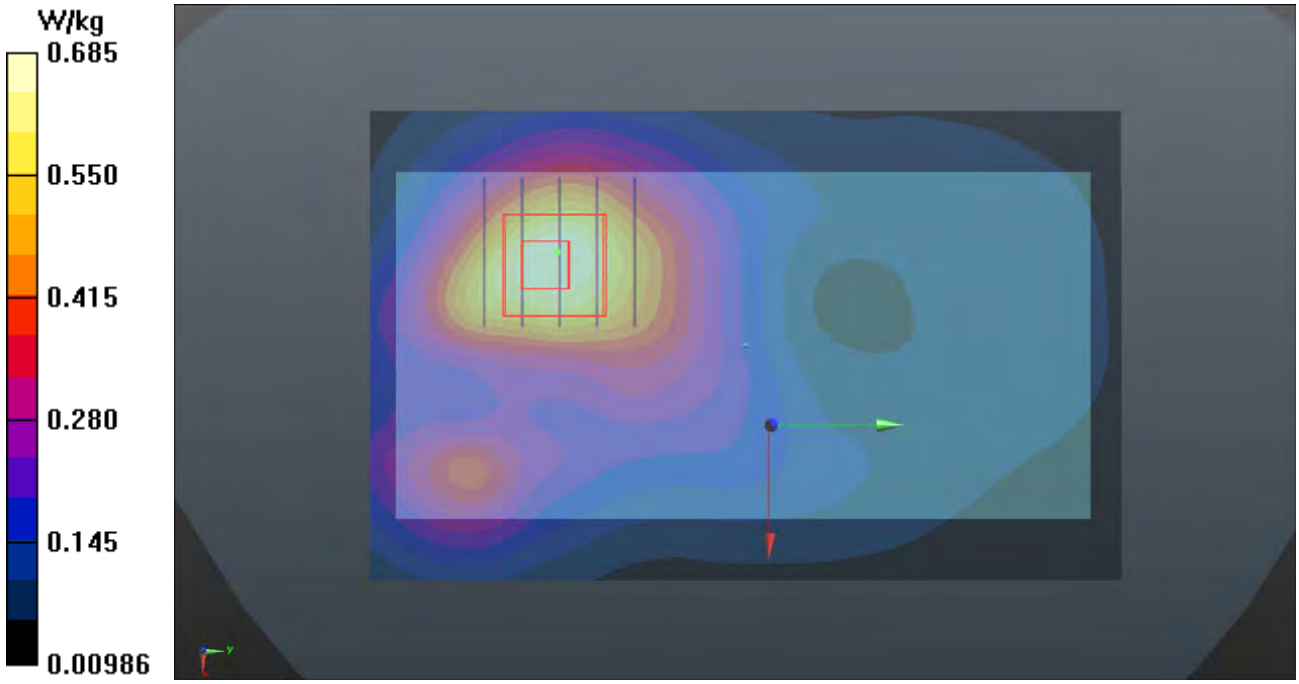
DUT: 160705C22

Communication System: LTE; Frequency: 1882.5 MHz;Duty Cycle: 1:1
Medium: B16T20N2_0728 Medium parameters used: f = 1882.5 MHz; σ = 1.563 S/m; ε_r = 50.908; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.685 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.038 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.817 W/kg
SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.323 W/kg
Maximum value of SAR (measured) = 0.688 W/kg



P31 LTE 26_QPSK15M_Front Face_1.5cm_Ch26965_1RB_OS0

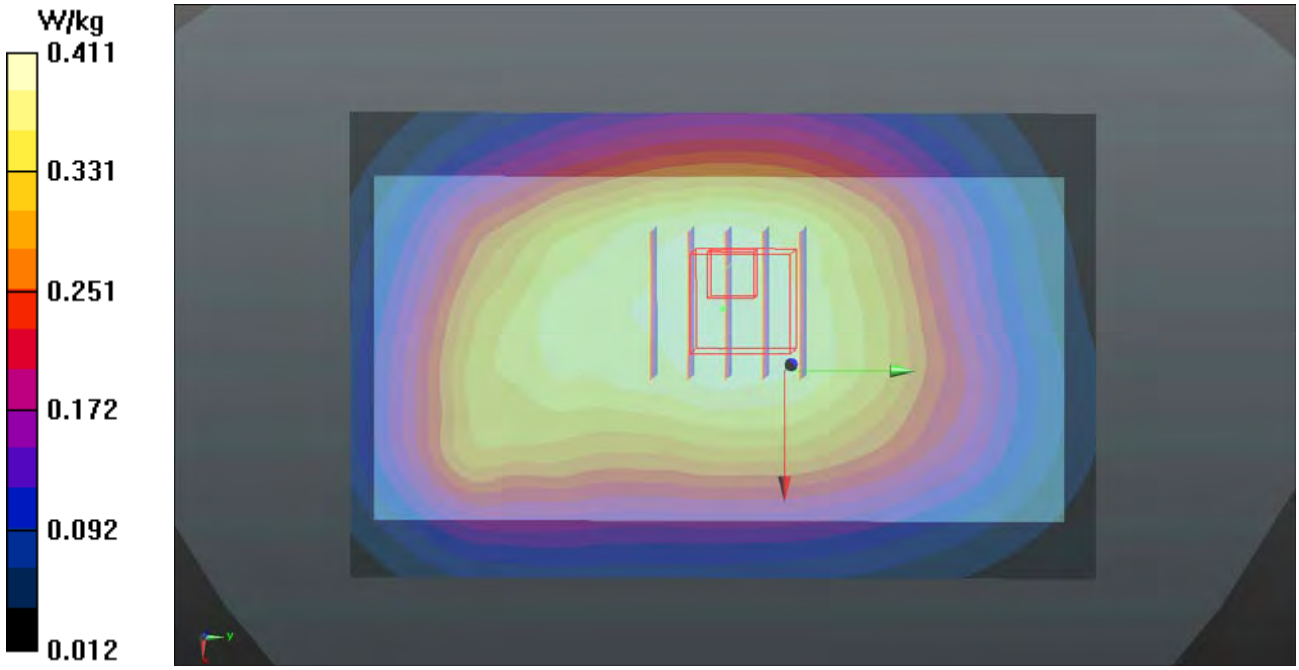
DUT: 160705C22

Communication System: LTE; Frequency: 841.5 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0730 Medium parameters used: f = 841.5 MHz; σ = 1.021 S/m; ε_r = 54.746; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.411 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.308 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.467 W/kg
SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.270 W/kg
Maximum value of SAR (measured) = 0.428 W/kg



P32 LTE 41_QPSK20M_Rear Face_1.5cm_Ch41490_1RB_OS50

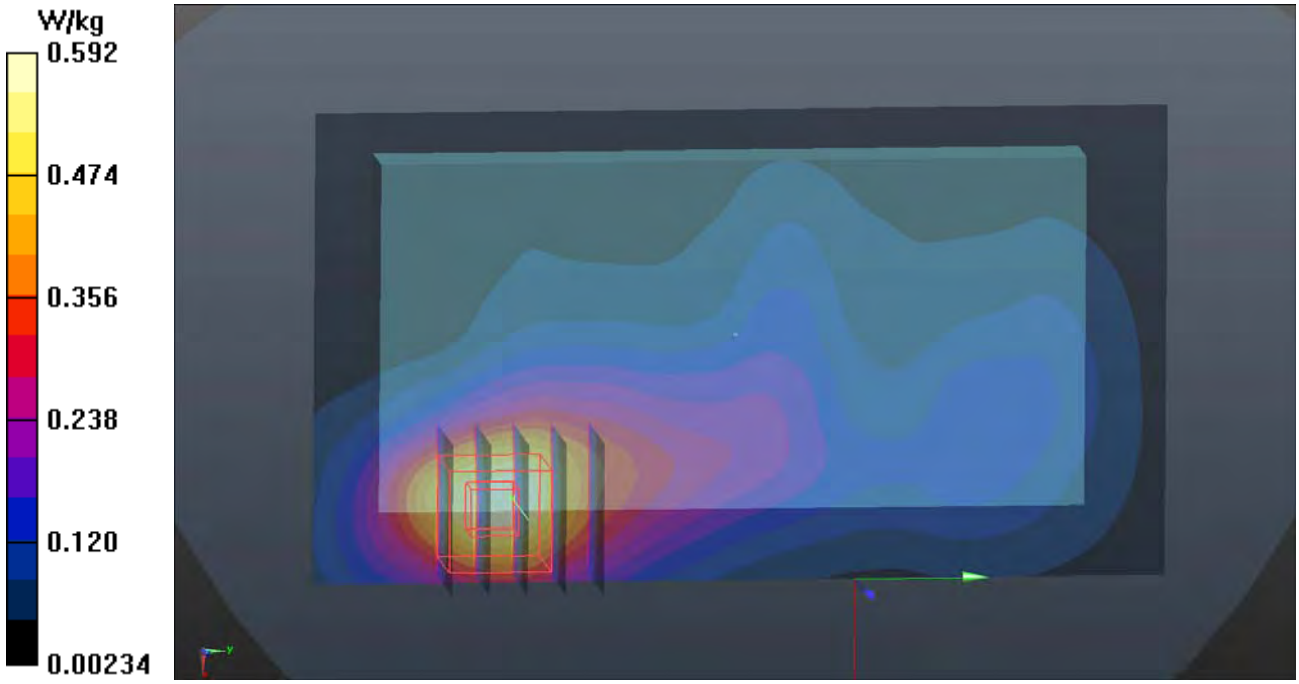
DUT: 160705C22

Communication System: LTE TDD CF0; Frequency: 2680 MHz;Duty Cycle: 1:1.58
Medium: B19T27N2_0727 Medium parameters used: f = 2680 MHz; σ = 2.28 S/m; ε_r = 50.039; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(6.88, 6.88, 6.88); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.592 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.718 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.794 W/kg
SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.217 W/kg
Maximum value of SAR (measured) = 0.630 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/21

P33 2.4G WLAN_802.11b_Rear Face_1.5cm_Ch6

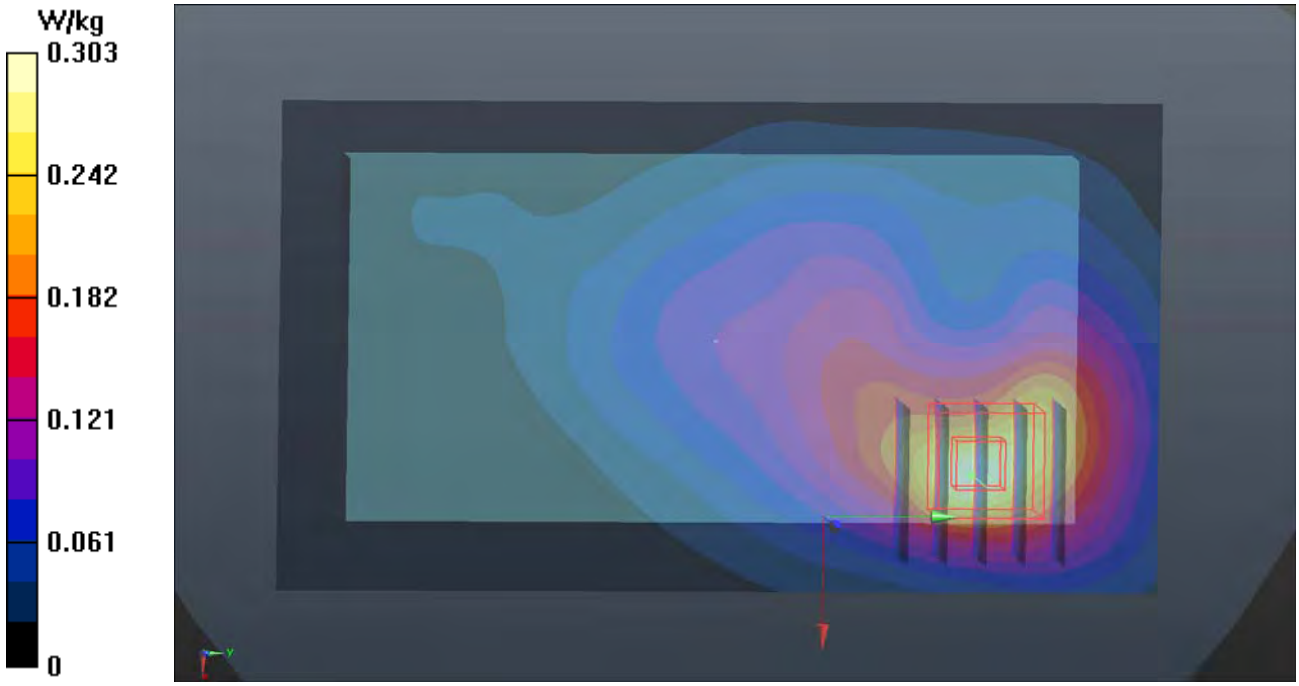
DUT: 160705C22

Communication System: WLAN_2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: B19T27N3_0721 Medium parameters used: f = 2437 MHz; σ = 2.003 S/m; ε_r = 51.01; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.24, 7.24, 7.24); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.303 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.728 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.460 W/kg
SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.123 W/kg
Maximum value of SAR (measured) = 0.357 W/kg



P34 5.3G WLAN_802.11a_Rear Face_1.5cm_Ch60

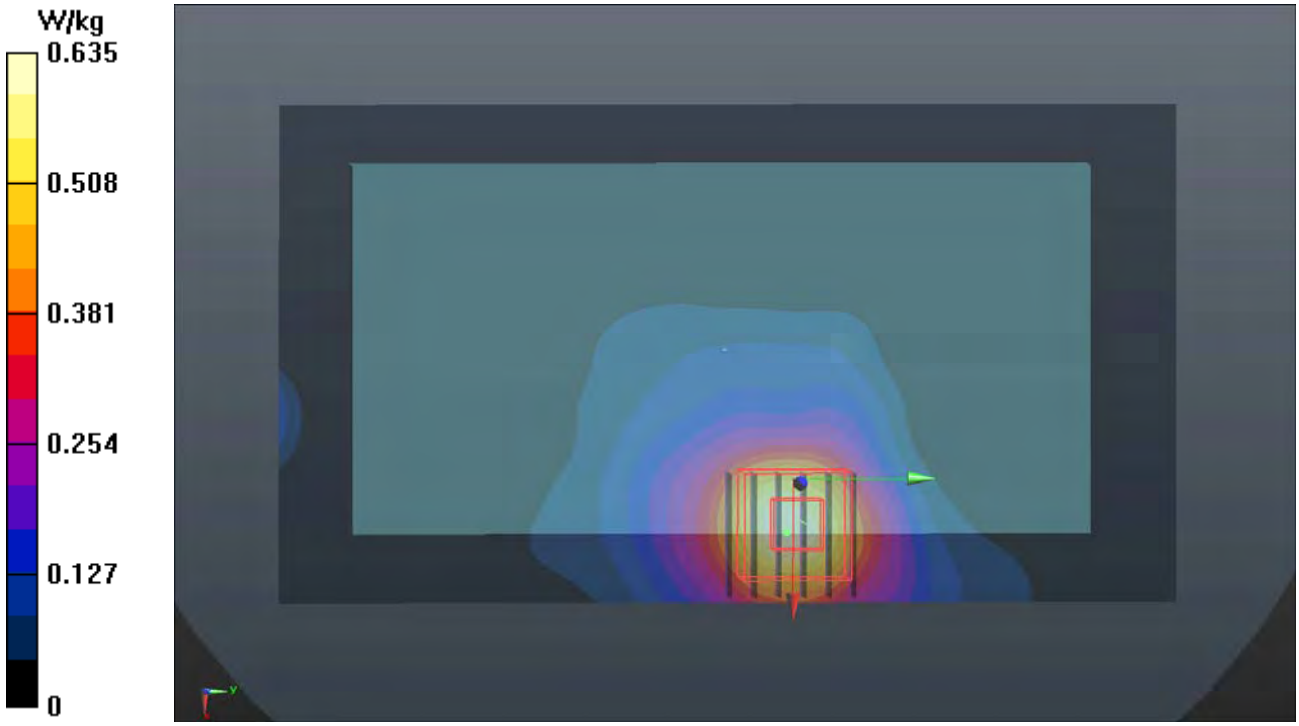
DUT: 160705C22

Communication System: WLAN_5G; Frequency: 5300 MHz;Duty Cycle: 1:1
Medium: B34T60N3_0729 Medium parameters used: f = 5300 MHz; σ = 5.466 S/m; ε_r = 47.315; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(4.62, 4.62, 4.62); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.635 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 1.542 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.128 W/kg
Maximum value of SAR (measured) = 0.647 W/kg



P35 5.6G WLAN_802.11a_Rear Face_1.5cm_Ch132

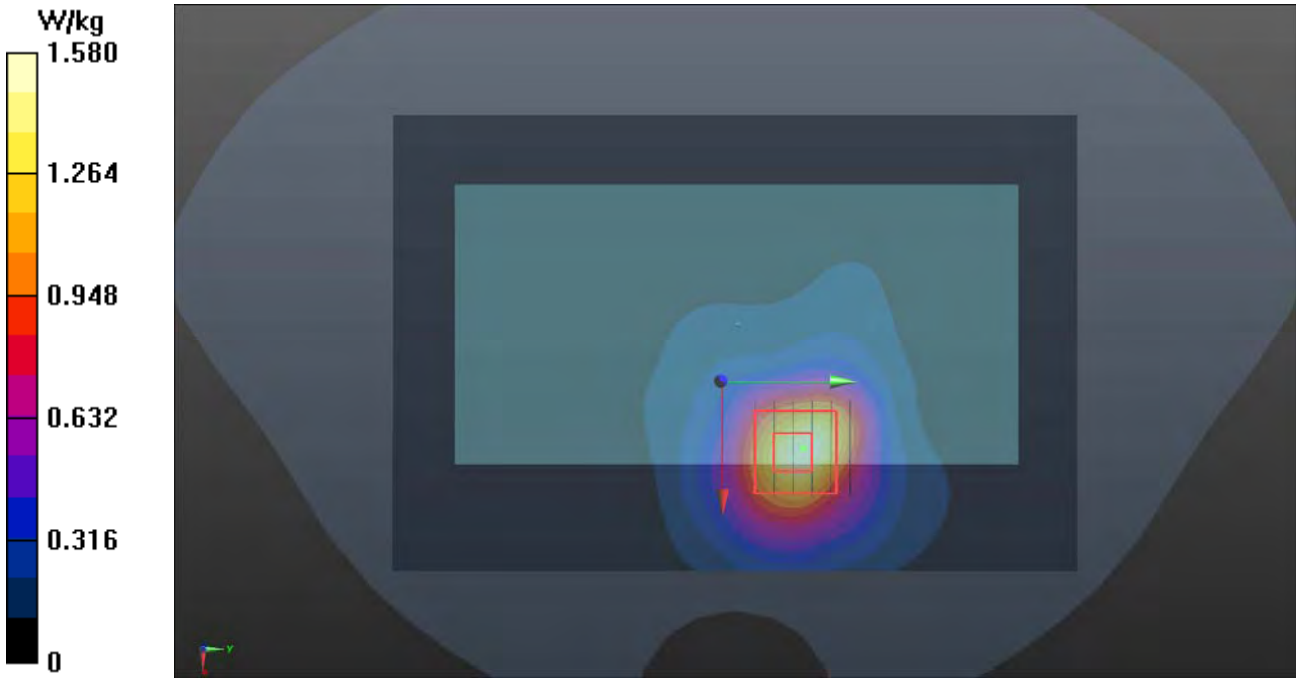
DUT: 160705C22

Communication System: WLAN_5G; Frequency: 5660 MHz;Duty Cycle: 1:1
Medium: B34T60N3_0729 Medium parameters used: f = 5660 MHz; σ = 5.981 S/m; ε_r = 46.605; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ； Liquid Temperature：23.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7350; ConvF(3.91, 3.91, 3.91); Calibrated: 2015/12/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2015/12/11
- Phantom: Twin SAM Phantom_1822; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.58 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 2.424 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 0.674 W/kg; SAR(10 g) = 0.283 W/kg
Maximum value of SAR (measured) = 1.43 W/kg



P36 5.8G WLAN_802.11a_Rear Face_1cm_Ch157

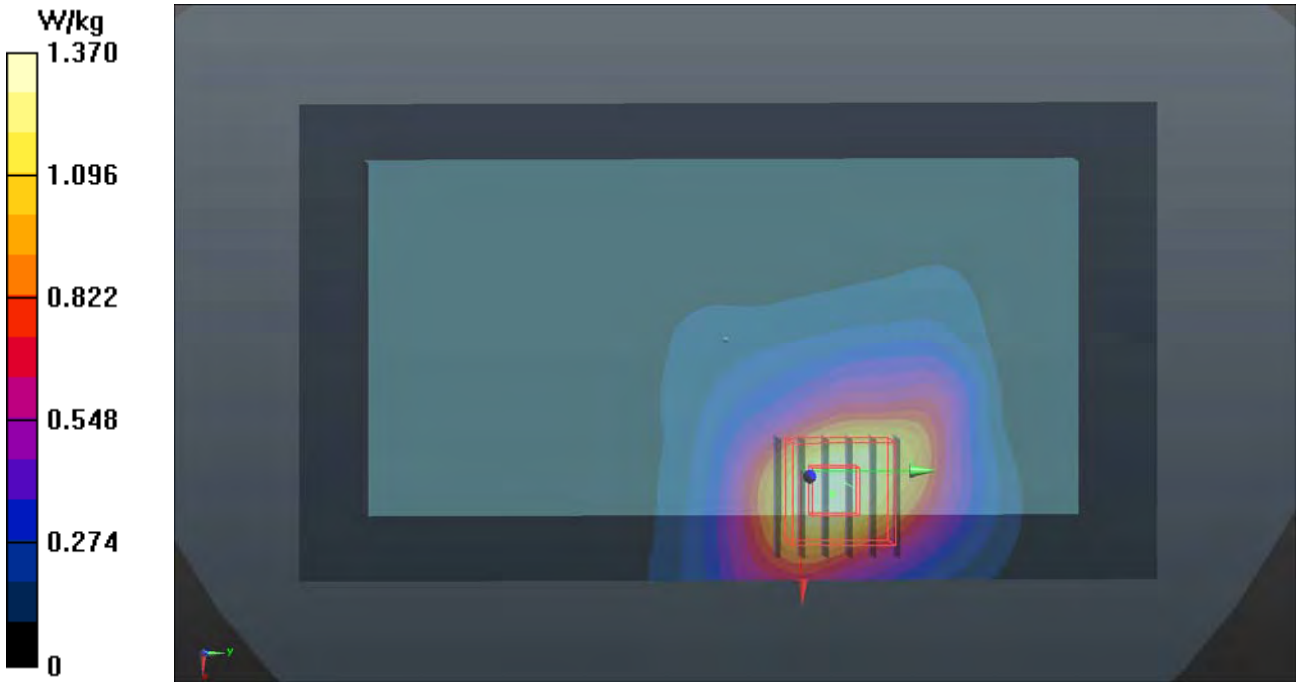
DUT: 160705C22

Communication System: WLAN_5G; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium: B34T60N2_0721 Medium parameters used: f = 5785 MHz; σ = 5.702 S/m; ε_r = 49.02; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃； Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(3.9, 3.9, 3.9); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1485; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.37 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 4.868 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 2.08 W/kg
SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.250 W/kg
Maximum value of SAR (measured) = 1.30 W/kg



P37 GSM850_GPRS12_Front Face_1cm_Ch251

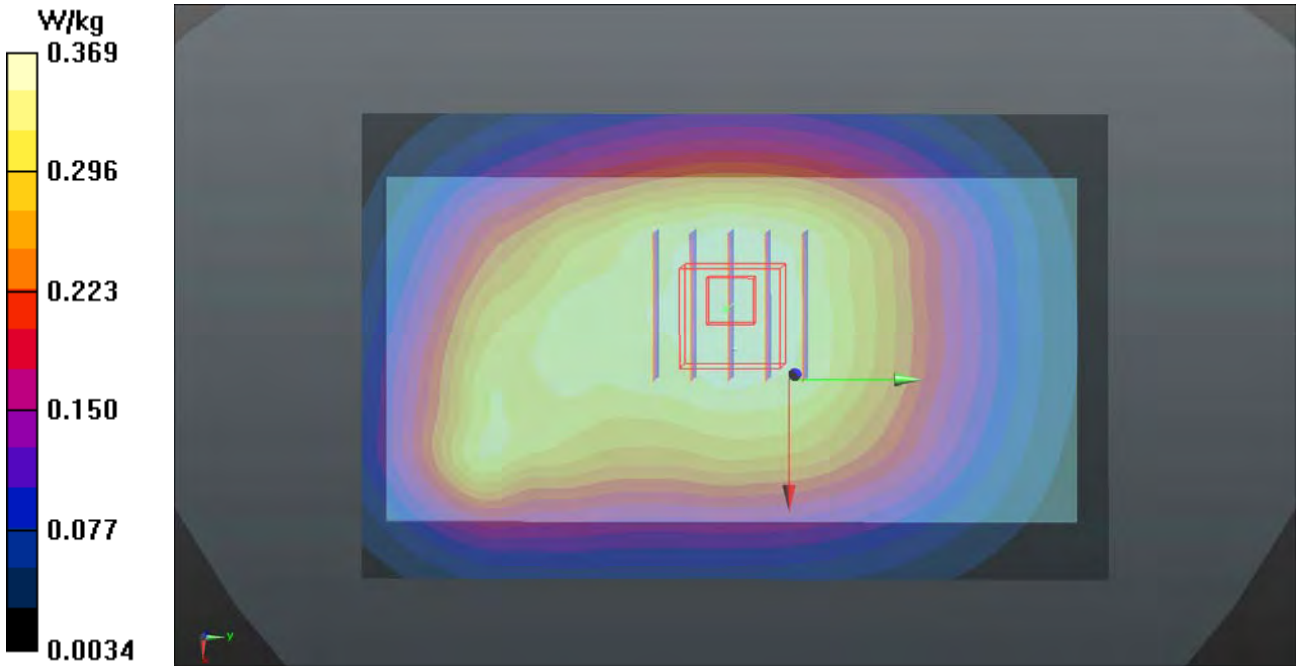
DUT: 160705C22

Communication System: GPRS12; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium: B07T10N3_0730 Medium parameters used: f = 849 MHz; σ = 1.028 S/m; ε_r = 54.667; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): 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 = 3.260 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.437 W/kg
SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.234 W/kg
Maximum value of SAR (measured) = 0.362 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/29

P38 GSM1900_GPRS12_Front Face_1cm_Ch661

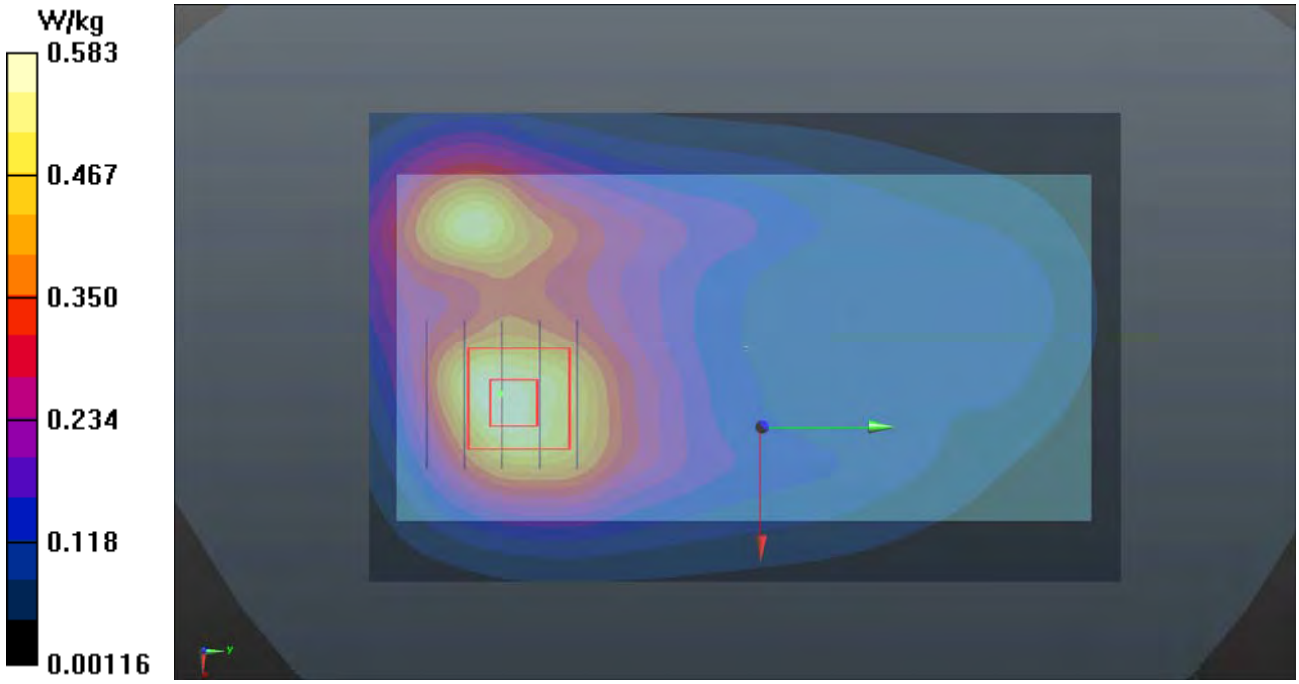
DUT: 160705C22

Communication System: GPRS12; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium: B16T20N1_0729 Medium parameters used: f = 1880 MHz; σ = 1.555 S/m; ε_r = 51.062; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.583 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.627 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.741 W/kg
SAR(1 g) = 0.455 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 0.637 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/08/04

P39 WCDMA II_RMC12.2K_Front Face_1cm_Ch9262

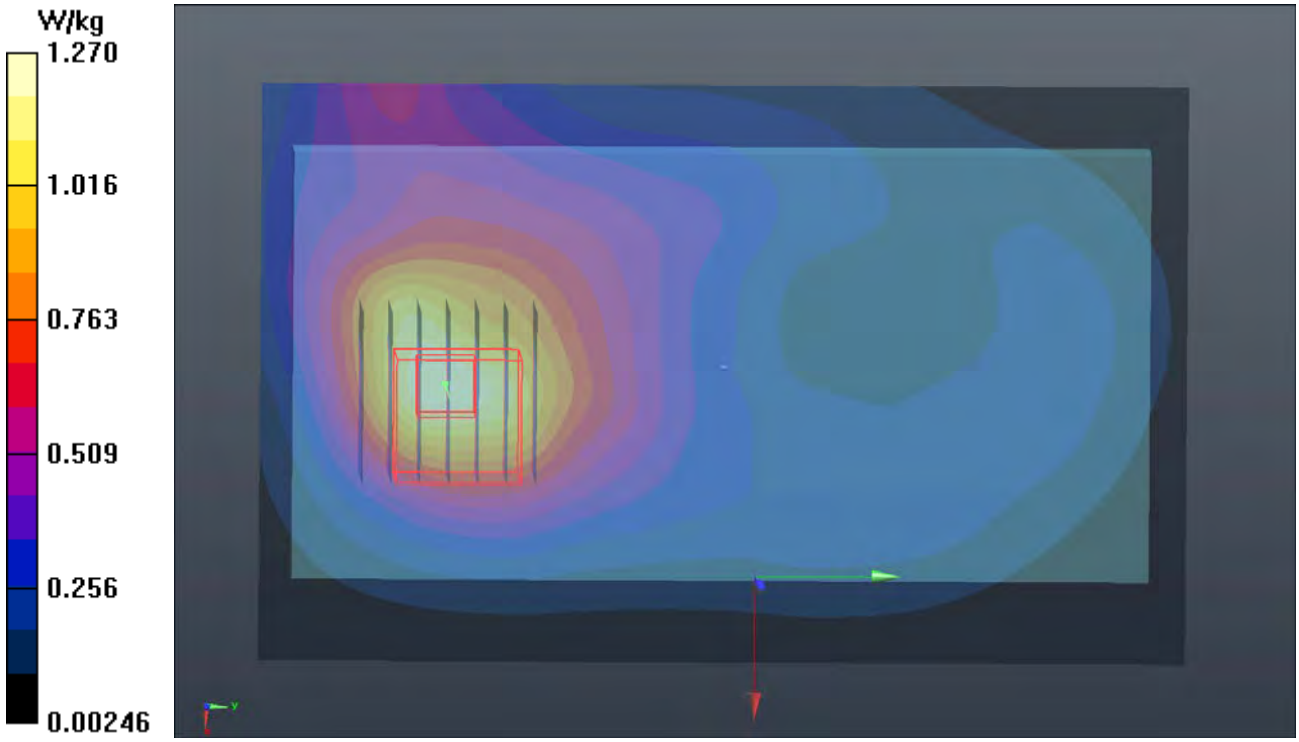
DUT: 160705C22

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B16T20N2_0804 Medium parameters used: f = 1852.4 MHz; σ = 1.534 S/m; ε_r = 51.223; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃； Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1653; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.27 W/kg

- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.31 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 4.44 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.623 W/kg
Maximum value of SAR (measured) = 1.37 W/kg



P40 WCDMA V_RMC12.2K_Rear Face_1cm_Ch4233

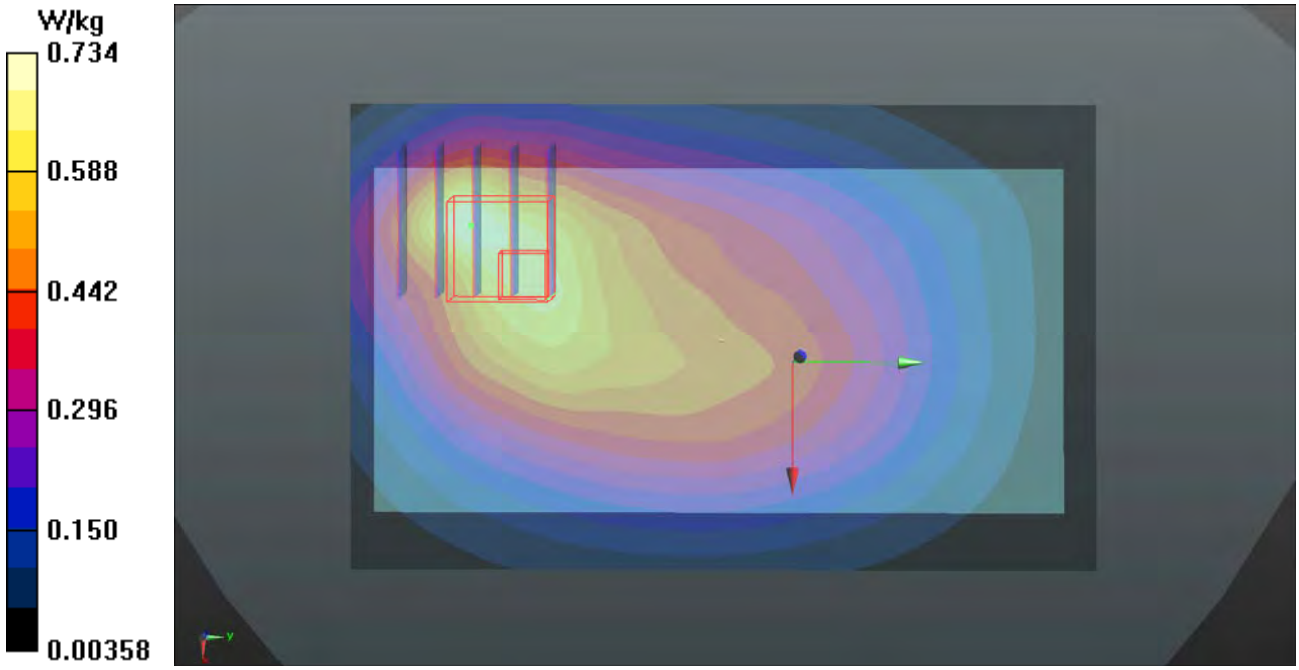
DUT: 160705C22

Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0730 Medium parameters used: f = 847 MHz; σ = 1.026 S/m; ε_r = 54.691; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.734 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.121 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.708 W/kg
SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.328 W/kg
Maximum value of SAR (measured) = 0.638 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/21

P41 CDMA2000 BC0_RTAP153.6_Rear Face_1cm_Ch777

DUT: 160705C22

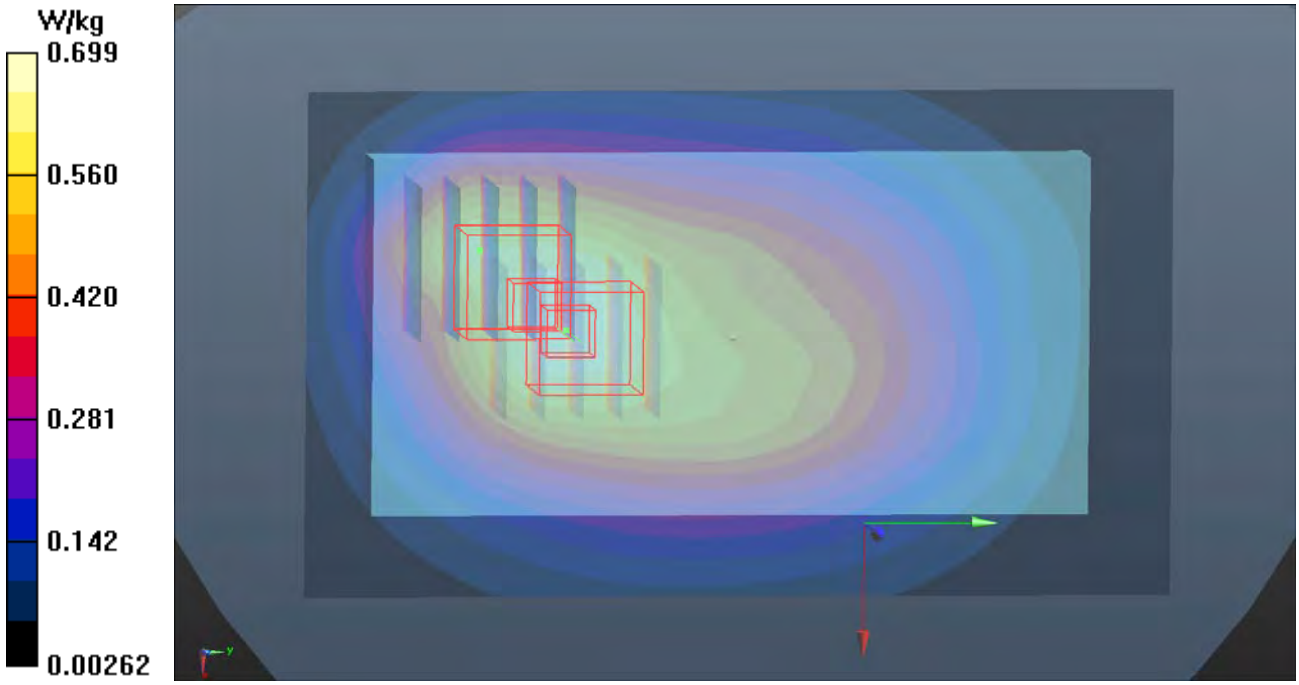
Communication System: CDMA2000; Frequency: 848.31 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0721 Medium parameters used: f = 848.31 MHz; σ = 1.009 S/m; ε_r = 55.533; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(9.89, 9.89, 9.89); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1485; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.699 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.22 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.787 W/kg
SAR(1 g) = 0.558 W/kg; SAR(10 g) = 0.405 W/kg
Maximum value of SAR (measured) = 0.694 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.22 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.789 W/kg
SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.334 W/kg
Maximum value of SAR (measured) = 0.705 W/kg



P42 CDMA2000 BC1_RTAP153.6_Front Face_1cm_Ch600

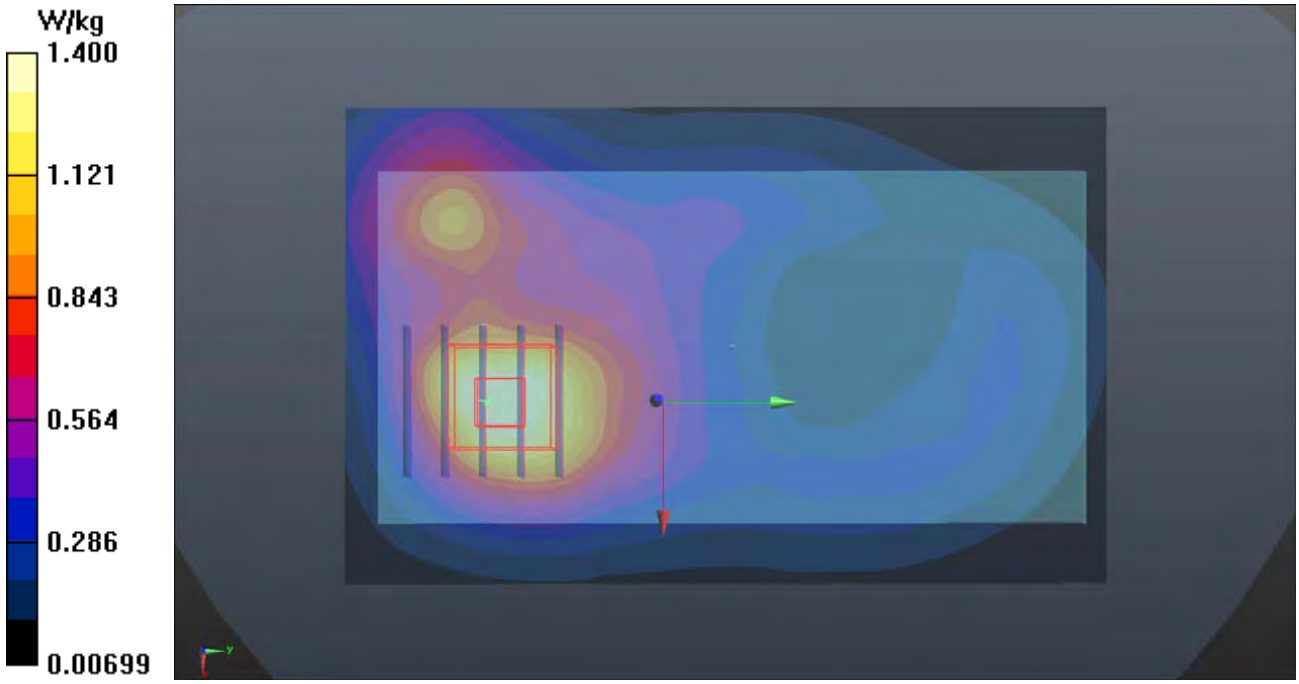
DUT: 160705C22

Communication System: CDMA2000; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: B16T20N1_0729 Medium parameters used: f = 1880 MHz; σ = 1.555 S/m; ε_r = 51.062; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.40 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.22 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.672 W/kg
Maximum value of SAR (measured) = 1.56 W/kg



P43 CDMA2000 BC10_RTAP153.6_Rear Face_1cm_Ch684

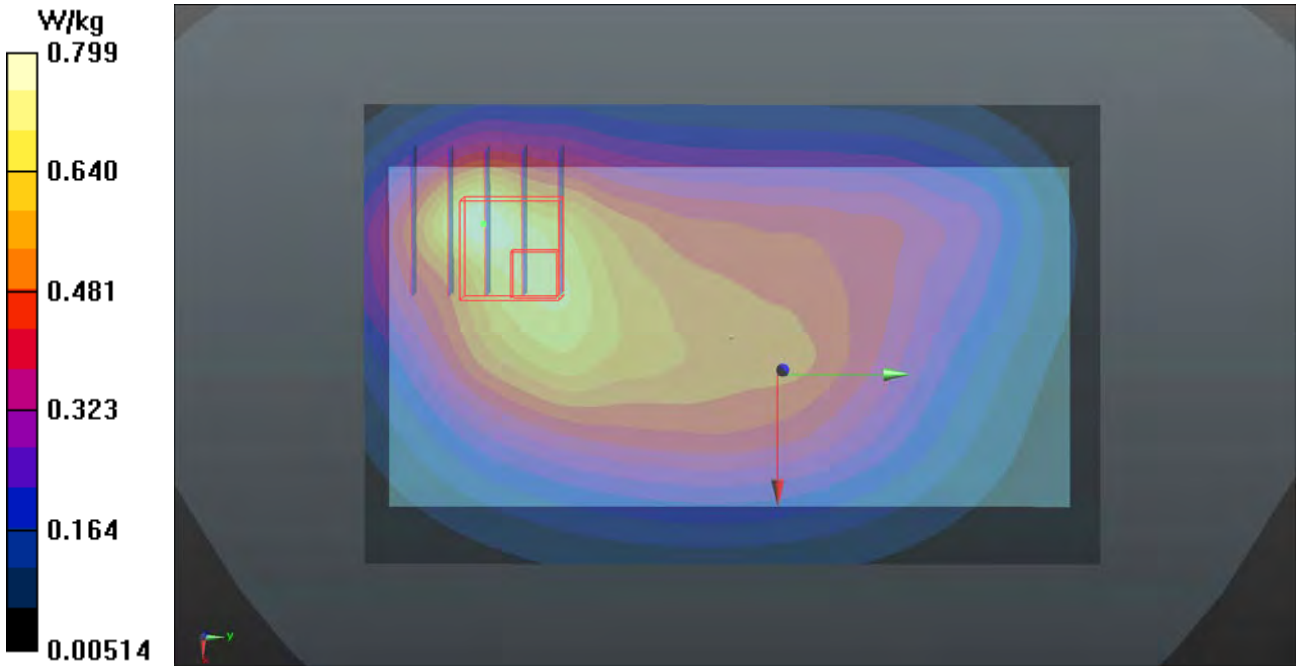
DUT: 160705C22

Communication System: CDMA2000 ; Frequency: 823.1 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0730 Medium parameters used: f = 823.1 MHz; σ = 1.002 S/m; ε_r = 54.924; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.799 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.389 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.781 W/kg
SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.358 W/kg
Maximum value of SAR (measured) = 0.706 W/kg



P44 LTE 2_QPSK20M_Front Face_1cm_Ch18700_1RB_OS0

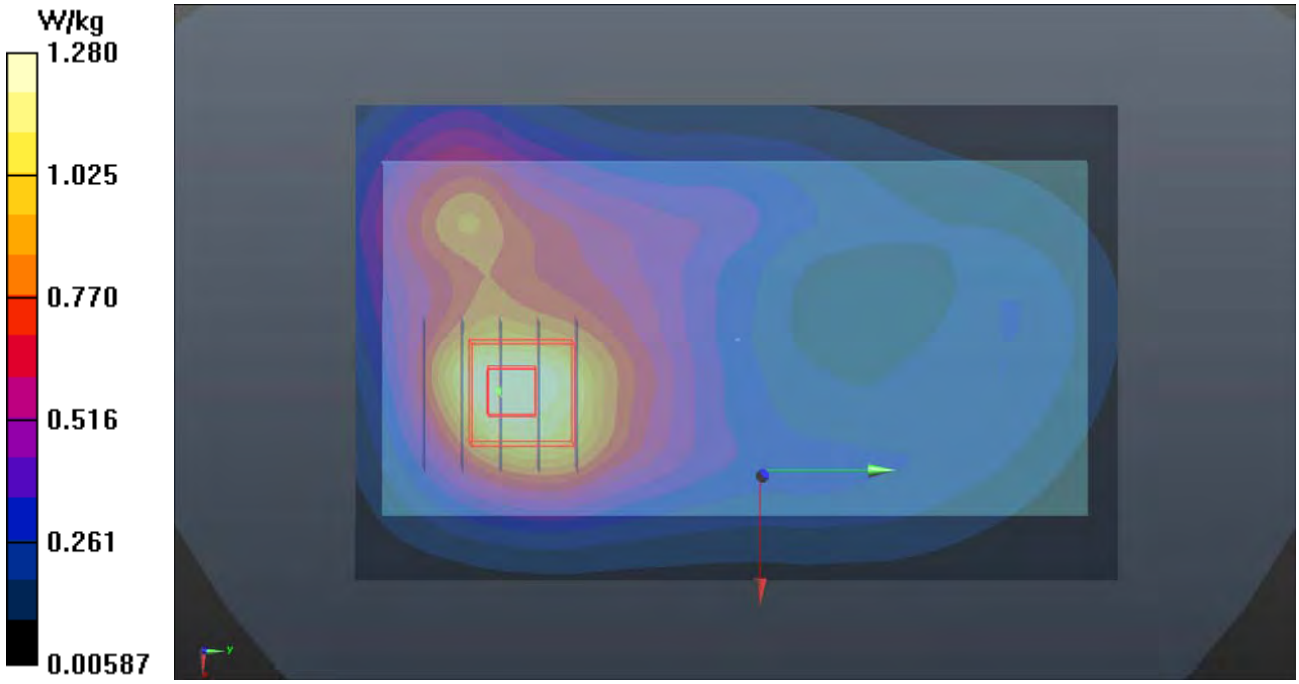
DUT: 160705C22

Communication System: LTE; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: B16T20N2_0728 Medium parameters used: f = 1860 MHz; σ = 1.544 S/m; ε_r = 50.946; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.28 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.547 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.70 W/kg
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.627 W/kg
Maximum value of SAR (measured) = 1.45 W/kg



P45 LTE 4_QPSK20M_Front Face_1cm_Ch20050_1RB_OS0

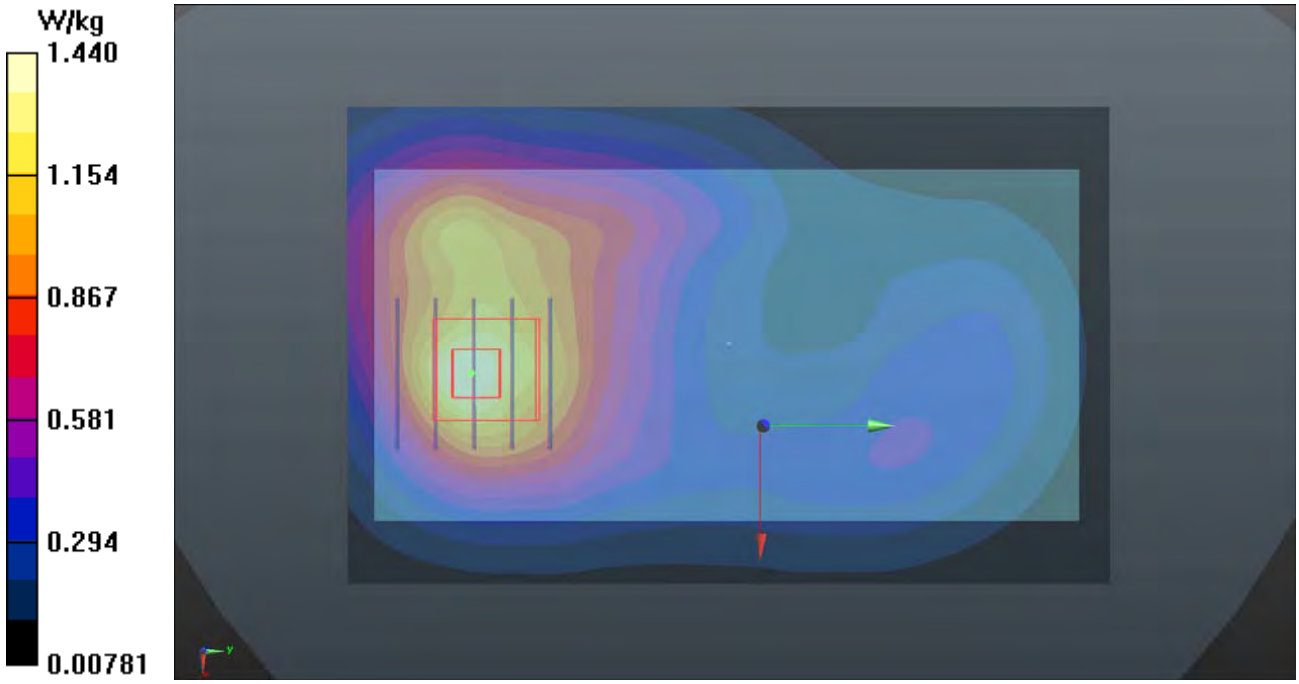
DUT: 160705C22

Communication System: LTE; Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: B16T20N1_0729 Medium parameters used: f = 1720 MHz; σ = 1.417 S/m; ε_r = 51.516; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.08, 8.08, 8.08); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.44 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.786 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.667 W/kg
Maximum value of SAR (measured) = 1.45 W/kg



P46 LTE 5_QPSK10M_Rear Face_1cm_Ch20525_1RB_OS0

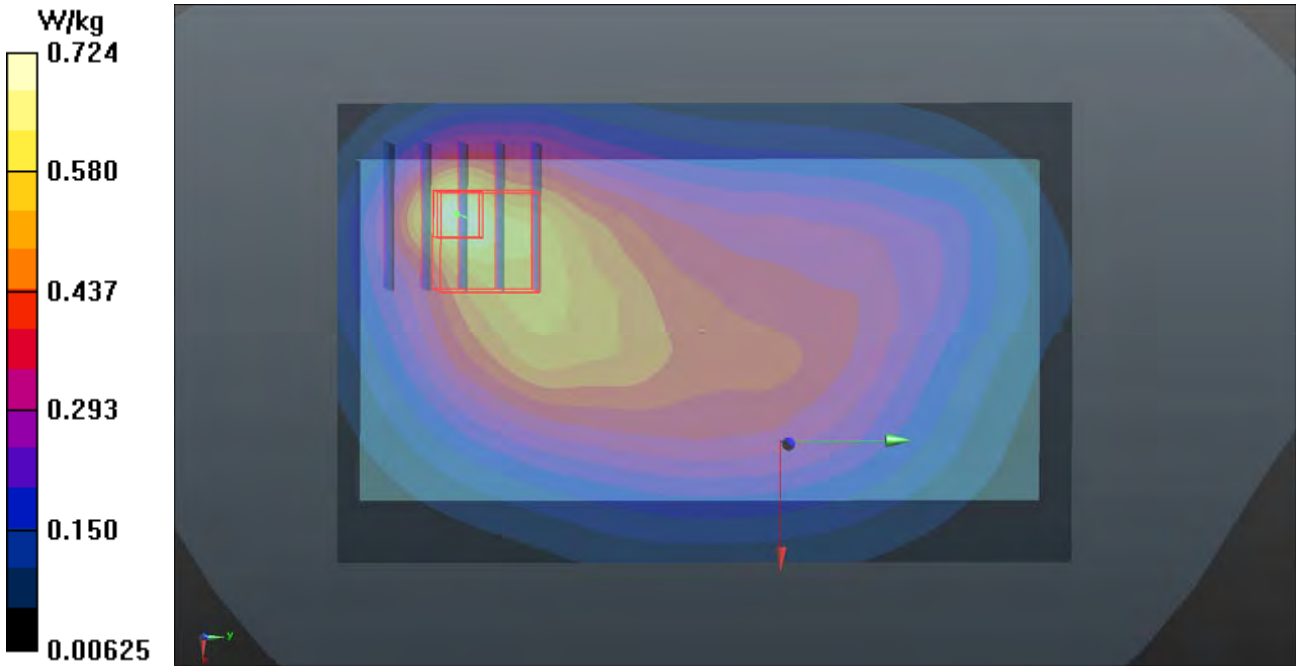
DUT: 160705C22

Communication System: LTE; Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0729 Medium parameters used: f = 836.5 MHz; σ = 1.002 S/m; ε_r = 55.283; ρ = 1000 kg/m^3
Ambient Temperature：23.8℃； Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm.
Maximum value of SAR (interpolated) = 0.724 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.908 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.696 W/kg
SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.290 W/kg
Maximum value of SAR (measured) = 0.584 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/22

P47 LTE 12_QPSK10M_Rear Face_1cm_Ch23060_1RB_OS24

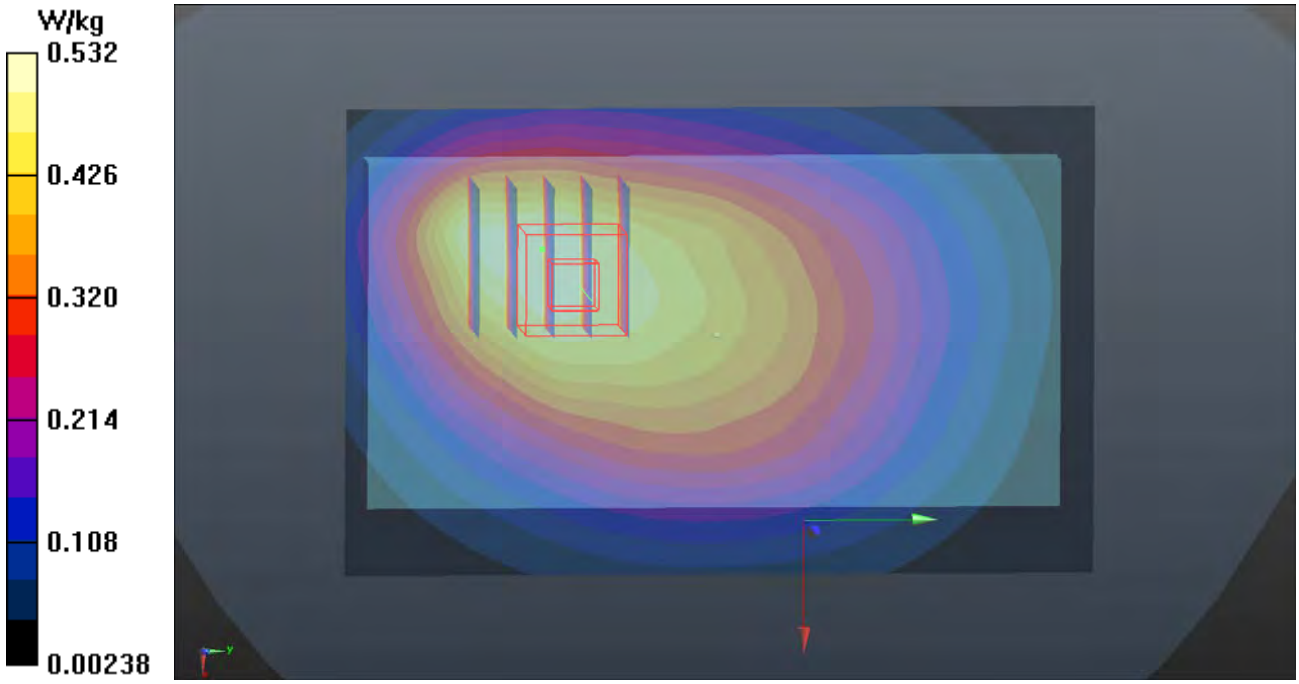
DUT: 160705C22

Communication System: LTE; Frequency: 704 MHz;Duty Cycle: 1:1
Medium: B06T09N1_0722 Medium parameters used: f = 704 MHz; σ = 0.917 S/m; ε_r = 56.866; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ； Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(10, 10, 10); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1202; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.532 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.516 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.606 W/kg
SAR(1 g) = 0.432 W/kg; SAR(10 g) = 0.314 W/kg
Maximum value of SAR (measured) = 0.545 W/kg



P48 LTE 25_QPSK20M_Front Face_1cm_Ch26590_1RB_OS0

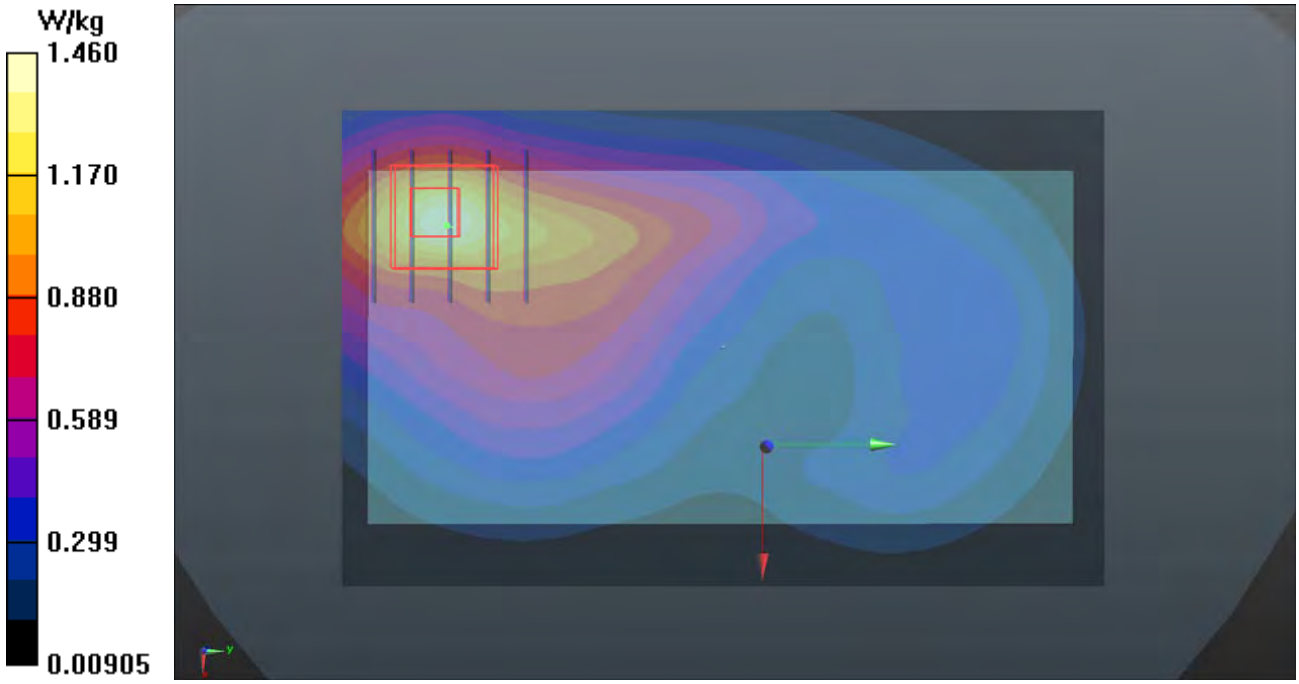
DUT: 160705C22

Communication System: LTE; Frequency: 1905 MHz;Duty Cycle: 1:1
Medium: B16T20N2_0728 Medium parameters used: f = 1905 MHz; σ = 1.589 S/m; ε_r = 50.846; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.85, 7.85, 7.85); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.72 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.67 W/kg
SAR(1 g) = 0.974 W/kg; SAR(10 g) = 0.574 W/kg
Maximum value of SAR (measured) = 1.35 W/kg



P49 LTE 26_QPSK15M_Rear Face_1cm_Ch26965_1RB_OS0

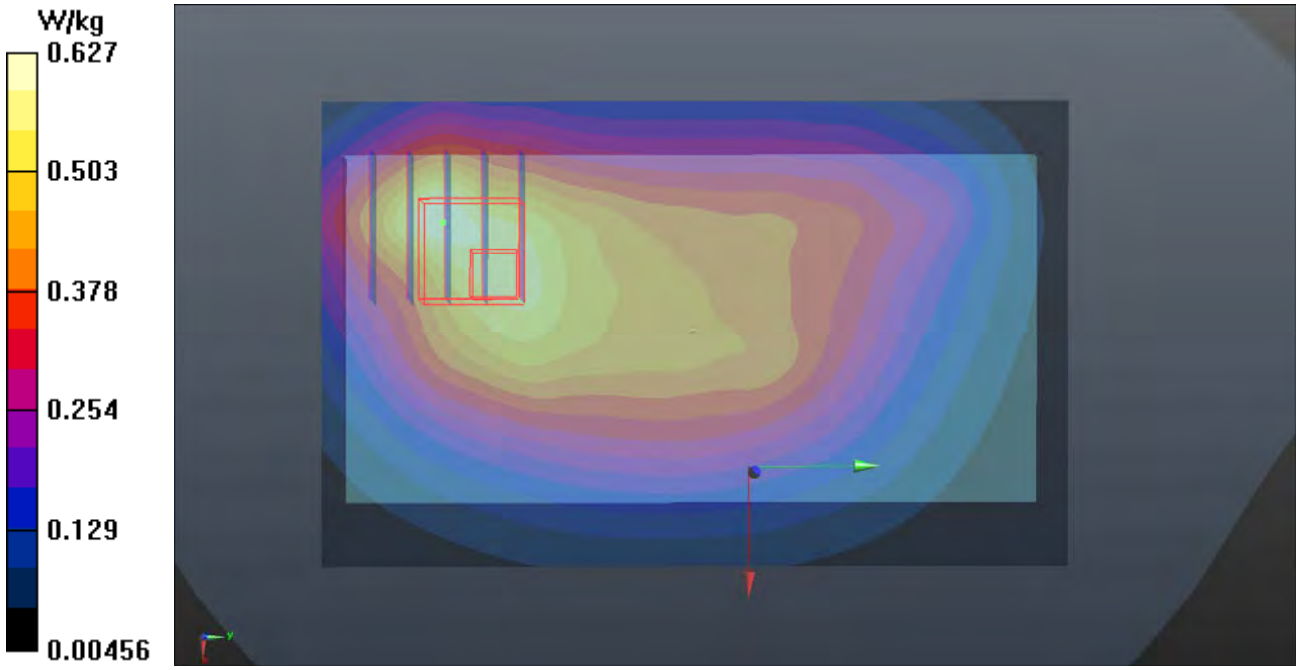
DUT: 160705C22

Communication System: LTE; Frequency: 841.5 MHz;Duty Cycle: 1:1
Medium: B07T10N3_0729 Medium parameters used: f = 841.5 MHz; σ = 1.007 S/m; ε_r = 55.224; ρ = 1000 kg/m^3
Ambient Temperature：23.8℃； Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/06/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2016/06/22
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.627 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.980 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.623 W/kg
SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.292 W/kg
Maximum value of SAR (measured) = 0.571 W/kg



P50 LTE 41_QPSK20M_Left Side_1cm_Ch41055_1RB_OS50

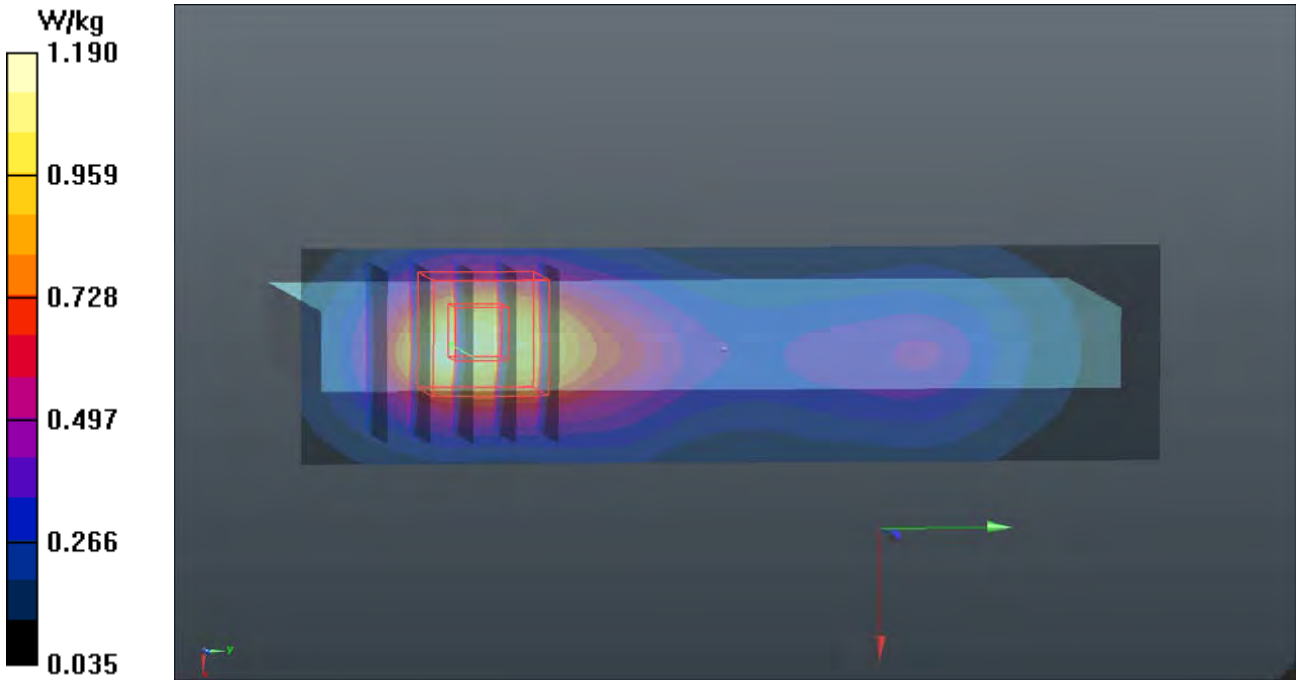
DUT: 160705C22

Communication System: LTE TDD CF0; Frequency: 2636.5 MHz;Duty Cycle: 1:1.58
Medium: B19T27N2_0727 Medium parameters used: f = 2636.5 MHz; σ = 2.232 S/m; ε_r = 50.171; ρ = 1000 kg/m^3
Ambient Temperature：24.2 ℃； Liquid Temperature：23.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(6.88, 6.88, 6.88); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1127; Type: QD000P40CA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (41x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.19 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.79 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 0.888 W/kg; SAR(10 g) = 0.421 W/kg
Maximum value of SAR (measured) = 1.40 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2016/07/21

P51 2.4G WLAN_802.11b_Rear Face_1cm_Ch6

DUT: 160705C22

Communication System: WLAN_2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: B19T27N3_0721 Medium parameters used: f = 2437 MHz; σ = 2.003 S/m; ε_r = 51.01; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.24, 7.24, 7.24); Calibrated: 2016/03/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2016/03/21
- Phantom: Twin SAM Phantom_1654; Type: QD000P40;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.554 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.372 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.964 W/kg
SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.225 W/kg
Maximum value of SAR (measured) = 0.737 W/kg